Full wwPDB EM Validation Report (i)

Apr 29, 2024 – 06:38 am BST

PDB ID	:	4V5H
EMDB ID	:	EMD-1657
Title	:	E.Coli 70s Ribosome Stalled During Translation Of Tnac Leader Peptide.
Authors	:	Seidelt, B.; Innis, C.A.; Wilson, D.N.; Gartmann, M.; Armache, J.; Villa, E.; Trabuco, L.G.; Becker, T.; Mielke, T.; Schulten, K.; Steitz, T.A.; Beckmann, R.
Deposited on	:	2009-10-26
Resolution	:	5.80 Å(reported)
Based on initial models	:	3FIH, 3FIK

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 (i) 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 (i)) were used in the production of this report:

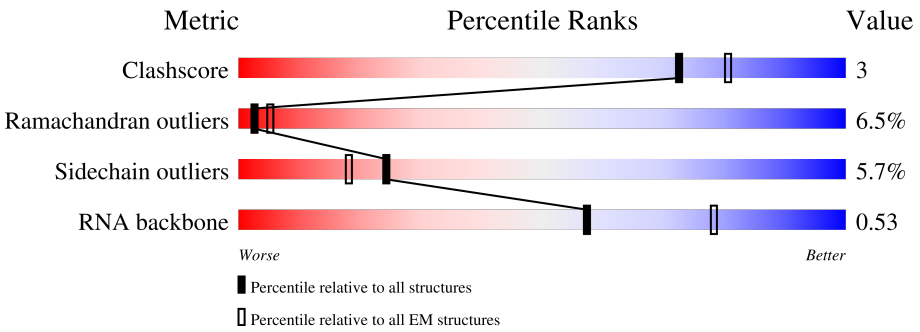
EMDB validation analysis	:	0.0.1.dev92
Mogul	:	1.8.4, CSD as541be (2020)
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
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 5.80 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
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	1530	35% 47% 18%
2	AB	218	54% 68% 28%
3	AC	206	37% 65% 25% 9%
4	AD	205	43% 67% 24% 8%
5	AE	150	29% 65% 28% 7%
6	AF	100	21% 65% 28% 6%
7	AG	150	39% 67% 25% 7%

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Mol	Chain	Length	Quality of chain
8	AH	129	29% 71% 26% •
9	AI	127	38% 59% 33% 7% •
10	AJ	98	65% 54% 42% •
11	AK	117	30% 70% 26% • •
12	AL	123	37% 66% 25% 8% •
13	AM	113	28% 60% 28% 9% •
14	AN	96	27% 64% 27% 9%
15	AO	88	28% 67% 25% 7% •
16	AP	80	39% 64% 32% • •
17	AQ	80	25% 65% 26% 8% •
18	AR	55	20% 64% 27% 9%
19	AS	79	25% 59% 30% 10%
20	AT	85	31% 73% 22% • •
21	AU	51	57% 65% 27% 8%
22	AV	77	26% 58% 29% 13%
23	AX	11	64% 9% 18% 27% 45%
24	AZ	20	55% 80% 20%
25	B0	77	26% 70% 25% 5%
26	B1	63	25% 65% 32% •
27	B2	58	22% 76% 24%
28	B3	56	32% 66% 25% 7% •
29	B4	50	26% 66% 30% •
30	B5	234	99% 77% 20% •
31	B6	46	37% 59% 20% 20% •
32	B7	64	23% 59% 39% •

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Mol	Chain	Length	Quality of chain
33	B8	38	21% 76% 24%
34	BA	117	42% 43% 14%
35	BB	2903	38% 45% 17%
36	BC	271	27% 68% 25% 6%
37	BD	209	20% 67% 23% 8%
38	BE	201	39% 66% 27% 6%
39	BF	178	22% 63% 26% 10%
40	BG	176	14% 72% 22% 6%
41	BH	149	71% 74% 21% 5%
42	BI	141	75% 35% 59% 6%
43	BJ	142	18% 69% 21% 8%
44	BK	121	33% 64% 26% 8%
45	BL	143	30% 67% 29%
46	BM	136	24% 68% 29%
47	BN	120	26% 67% 27% 7%
48	BO	116	20% 74% 22%
49	BP	114	27% 68% 25% 7%
50	BQ	117	22% 60% 31% 7%
51	BR	103	17% 59% 32% 7%
52	BS	110	25% 61% 27% 12%
53	BT	93	37% 56% 39% 5%
54	BU	102	19% 62% 26% 6%
55	BW	94	16% 61% 31% 7%
56	BY	79	32% 63% 27% 6%

2 Entry composition (i)

There are 56 unique types of molecules in this entry. The entry contains 145960 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	1530	32831	14642	6024	10635	1530	0	0

- Molecule 2 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	AB	218	1704	1081	305	311	7	0	0

- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	AC	206	1624	1028	305	288	3	0	0

- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S4.

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

- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	AE	150	1105	687	211	201	6	0	0

- Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	AF	100	817	515	148	148	6	0	0

- Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
7	AG	150	1174	730	226	214	4	0	0

- Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S8.

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

- Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
9	AI	127	1022	634	206	179	3	0	0

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	AJ	98	786	493	150	142	1	0	0

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	AK	117	877	540	174	160	3	0	0

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S12.

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

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
13	AM	113	876	541	177	155	3	0	0

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S14.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	AN	96	774	483	160	128	3	0	0

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S15.

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

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
16	AP	80	638	400	126	111	1	0	0

- Molecule 17 is a protein called 30S RIBOSOMAL PROTEIN S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
17	AQ	80	648	411	121	113	3	0	0

- Molecule 18 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
18	AR	55	455	288	86	81	0	0

- Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
19	AS	79	637	408	120	107	2	0	0

- Molecule 20 is a protein called 30S RIBOSOMAL PROTEIN S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
20	AT	85	665	411	137	114	3	0	0

- Molecule 21 is a protein called 30S RIBOSOMAL PROTEIN S21.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
21	AU	51	425	265	86	73	1	0	0

- Molecule 22 is a RNA chain called P-SITE TRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
22	AV	77	1649	733	297	542	77	0	0

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
23	AX	11	236	106	46	73	11	0	0

- Molecule 24 is a protein called POLY-ALA NASCENT CHAIN.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
24	AZ	20	100	60	20	20	0	0

- Molecule 25 is a protein called 50S RIBOSOMAL PROTEIN L28.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
25	B0	77	625	388	129	106	2	0	0

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
26	B1	63	509	313	99	95	2	0	0

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
27	B2	58	449	281	87	79	2	0	0

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L32.

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

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
29	B4	50	409	263	75	71	0	0

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
30	B5	234	1733	1081	315	330	7	0	0

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L34.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	B6	46	377	228	90	57	2	0	0

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	B7	64	504	323	105	74	2	0	0

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L36.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
33	B8	38	302	185	65	48	4	0	0

- Molecule 34 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
34	BA	115	2464	1097	451	801	115	0	0

- Molecule 35 is a RNA chain called 23S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
35	BB	2903	62321	27801	11467	20150	2903	0	0

- Molecule 36 is a protein called 50S RIBOSOMAL PROTEIN L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
36	BC	271	2082	1288	423	364	7	0	0

- Molecule 37 is a protein called 50S RIBOSOMAL PROTEIN L3.

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

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L4.

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

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L5.

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

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
40	BG	175	1316	827	242	245	2	0	0

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L9.

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

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L11.

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

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L13.

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

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	BK	121	930	582	179	163	6	0	0

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	BL	143	1045	649	206	189	1	0	0

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L16.

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

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
47	BN	120	960	593	196	166	5	0	0

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
48	BO	116	892	552	178	162	0	0

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L19.

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

- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L20.

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

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L21.

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

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L22.

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

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
53	BT	93	738	466	139	131	2	0	0

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
54	BU	99	755	479	140	136	0	0

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L25.

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

- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L27.

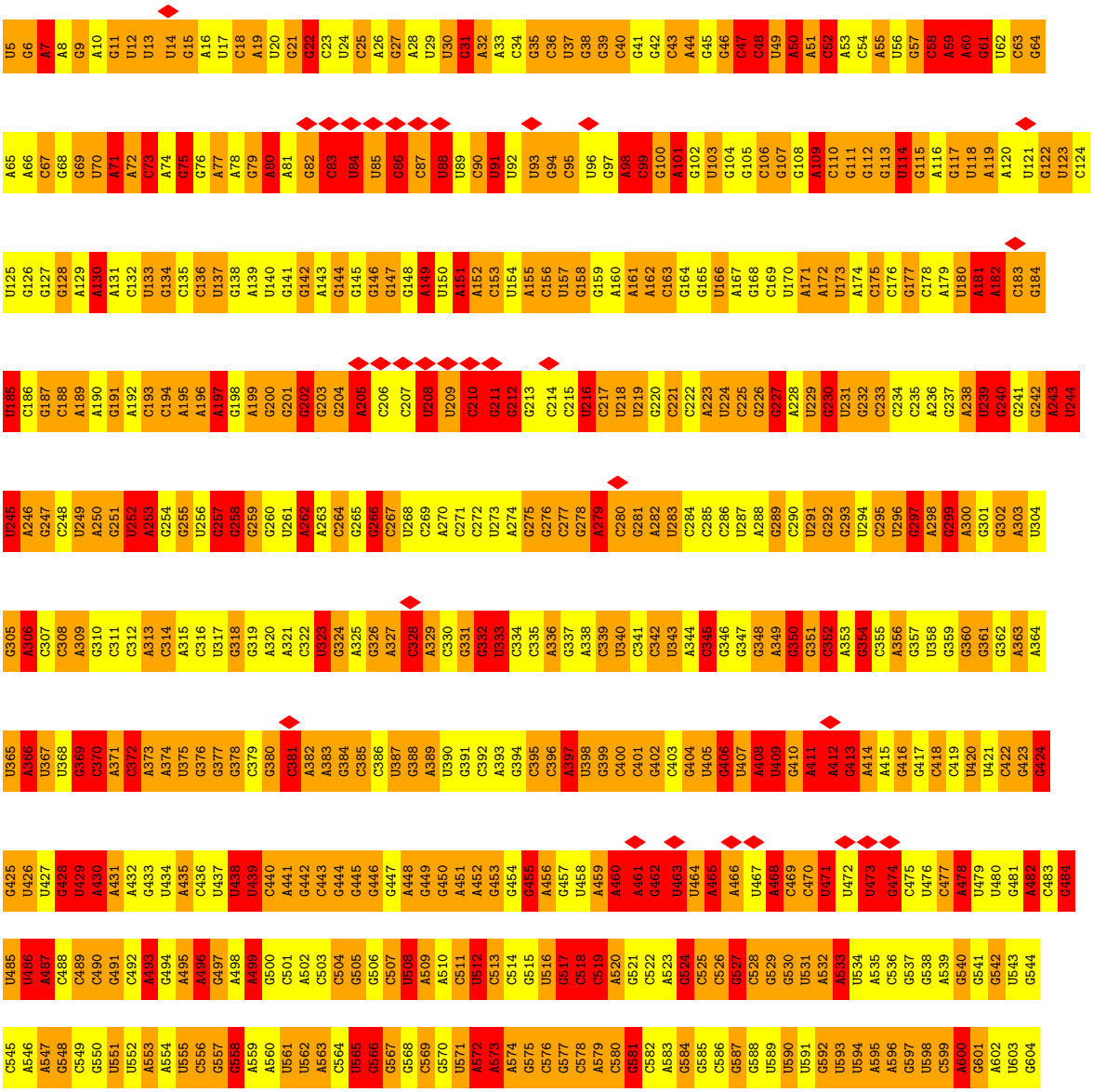
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
56	BY	79	596	367	120	108	1	0	0

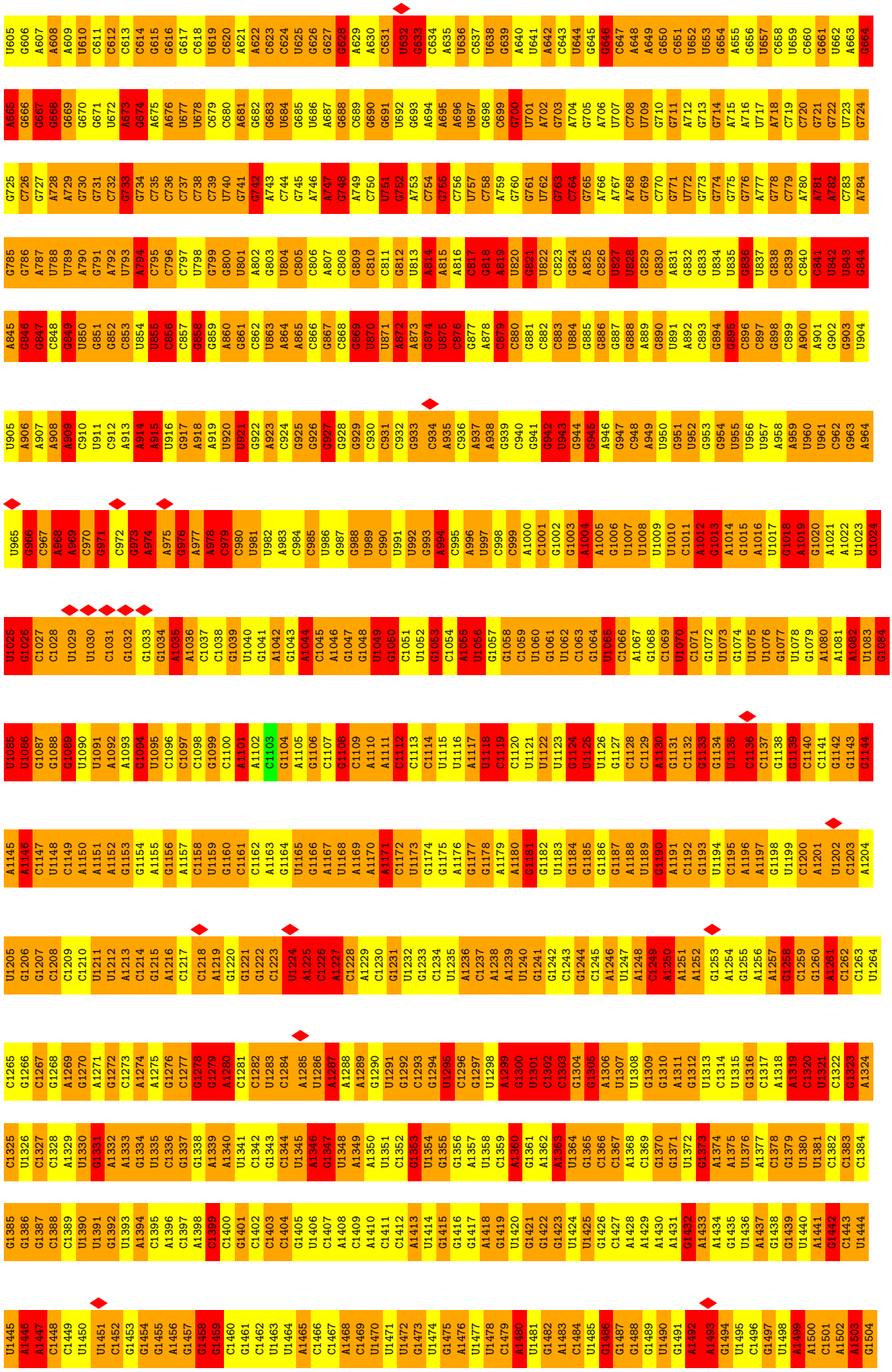
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry 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

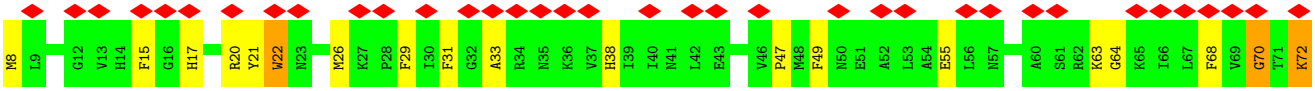
Chain AA: 35% 47% 18%

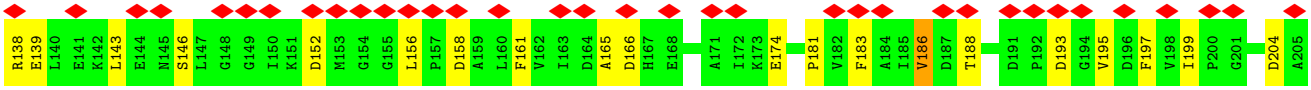




- Molecule 2: 30S RIBOSOMAL PROTEIN S2

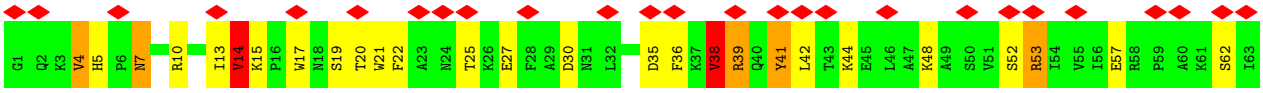
Chain AB:

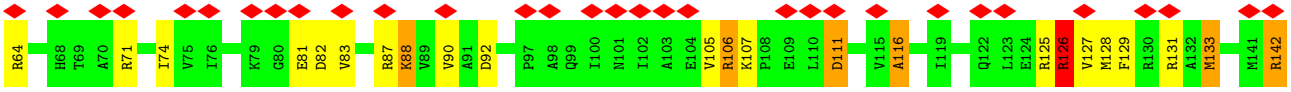


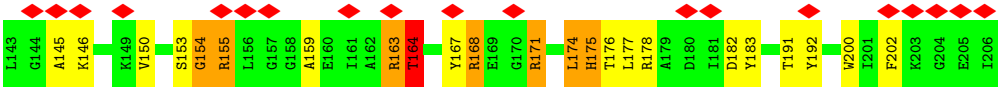


- Molecule 3: 30S RIBOSOMAL PROTEIN S3

Chain AC:

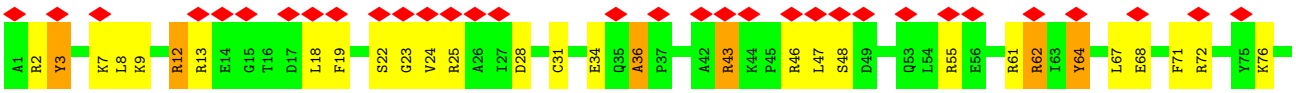


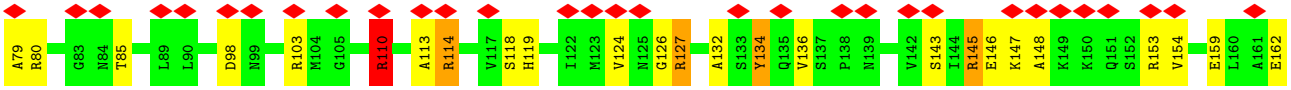


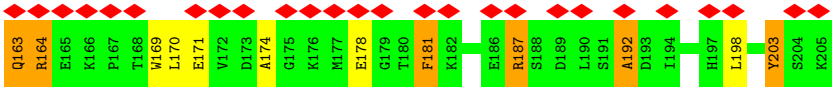


- Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain AD:

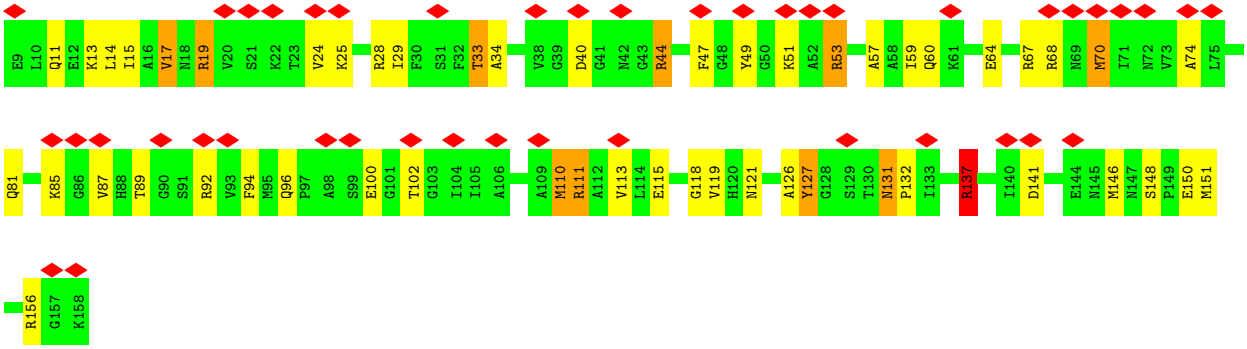






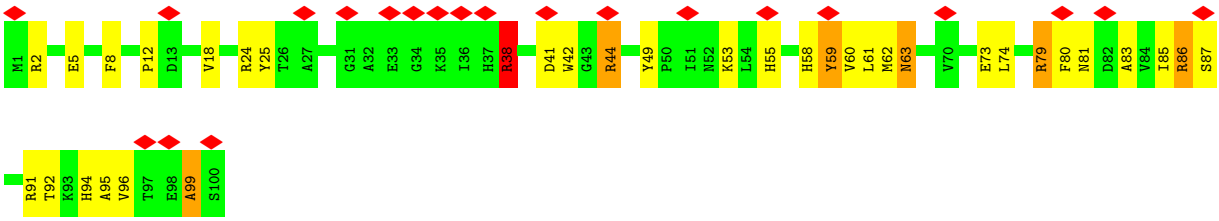
• Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain AE:



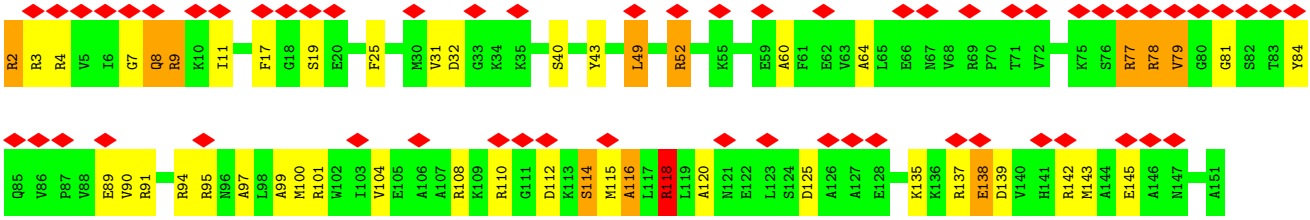
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain AF:



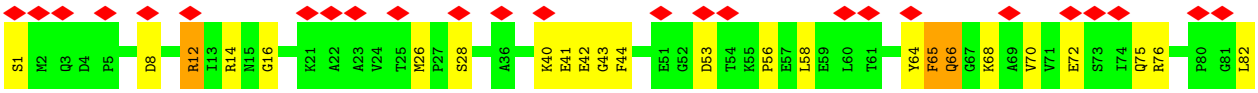
• Molecule 7: 30S RIBOSOMAL PROTEIN S7

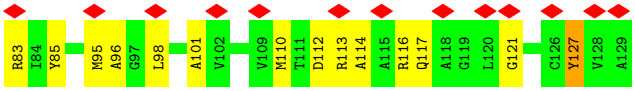
Chain AG:



• Molecule 8: 30S RIBOSOMAL PROTEIN S8

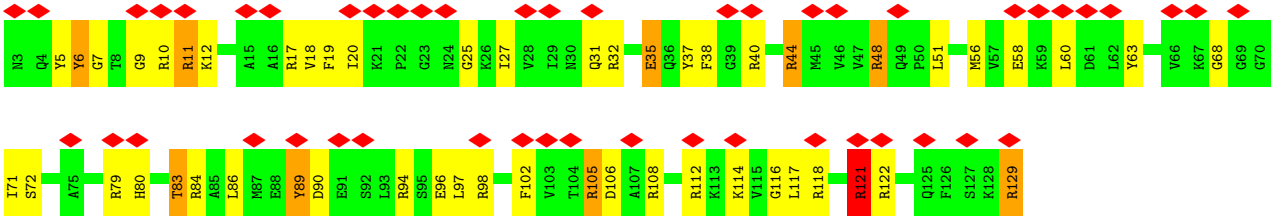
Chain AH:





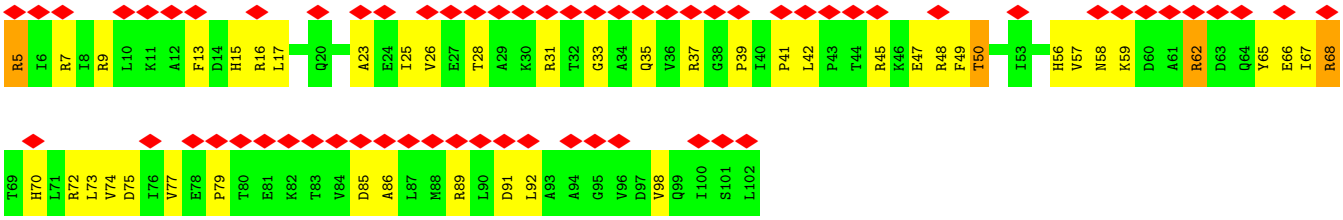
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain AI:



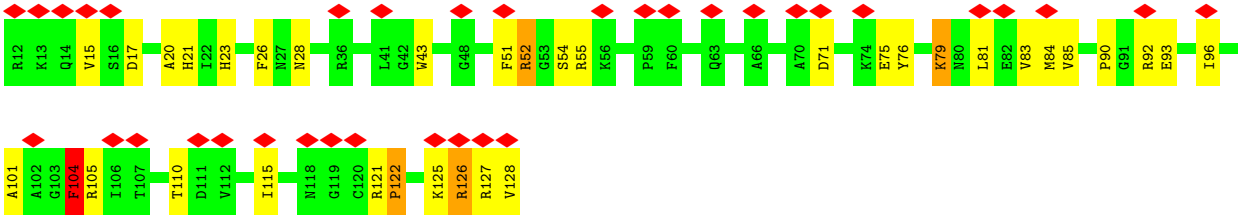
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

Chain AJ:



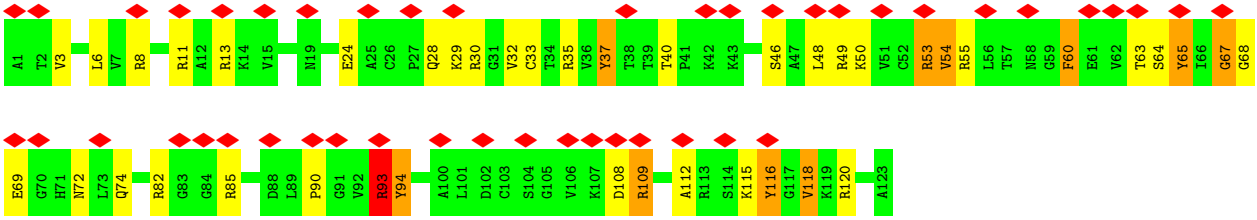
• Molecule 11: 30S RIBOSOMAL PROTEIN S11

Chain AK:



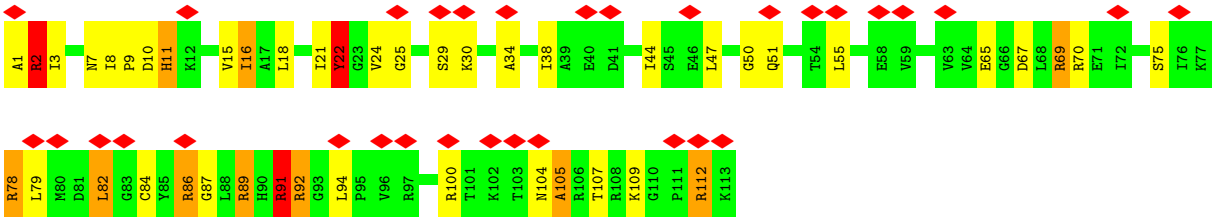
• Molecule 12: 30S RIBOSOMAL PROTEIN S12

Chain AL:



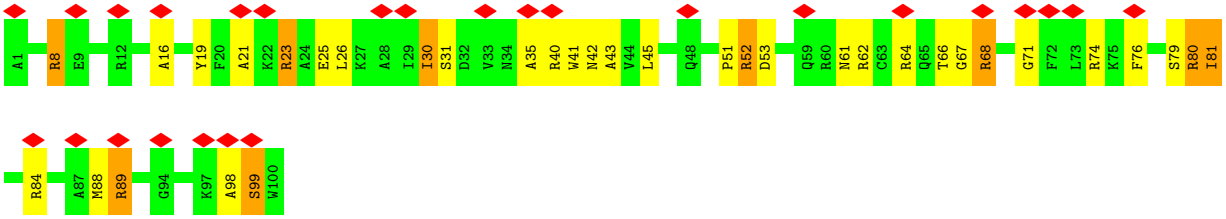
• Molecule 13: 30S RIBOSOMAL PROTEIN S13

Chain AM:



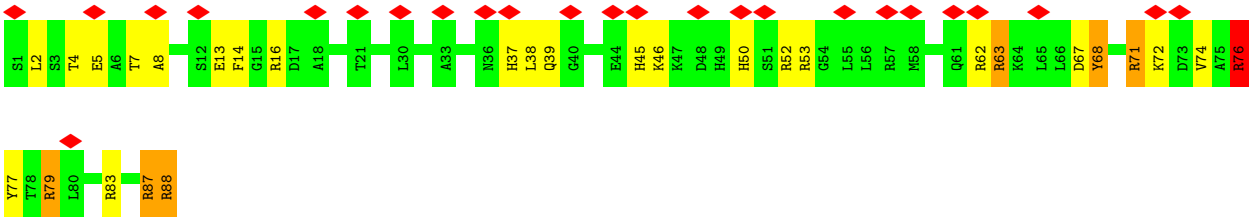
- Molecule 14: 30S RIBOSOMAL PROTEIN S14

Chain AN:



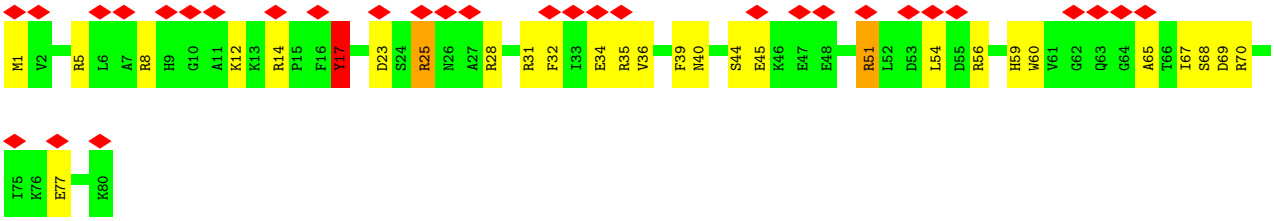
- Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain AO:



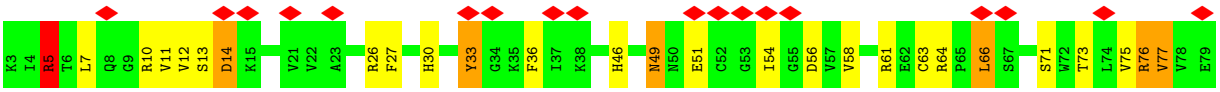
- Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain AP:



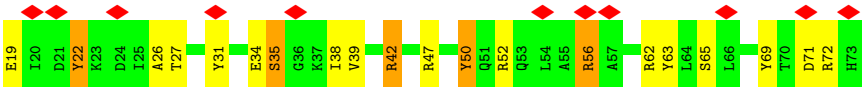
- Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain AQ:



• Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain AR:

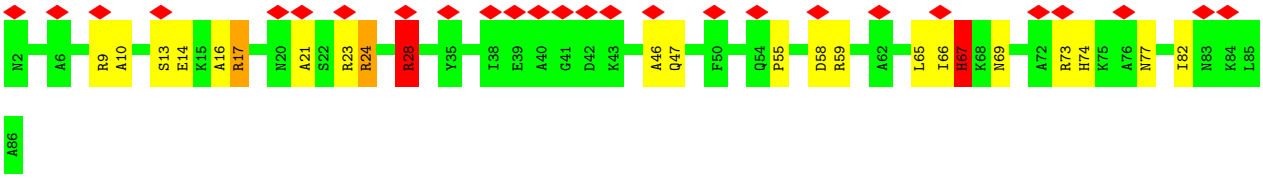


• Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain AS:

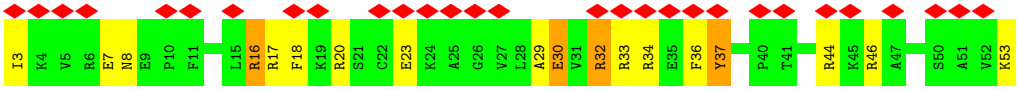
• Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain AT:



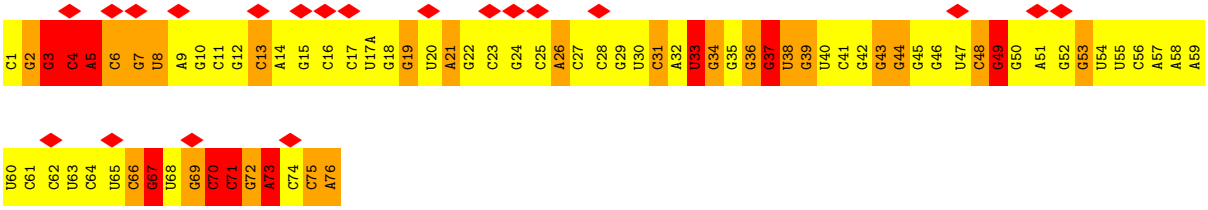
• Molecule 21: 30S RIBOSOMAL PROTEIN S21

Chain AU:



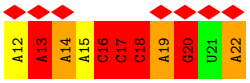
• Molecule 22: P-SITE TRNA

Chain AV:



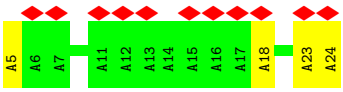
• Molecule 23: MRNA

Chain AX: 64% 9% 18% 27% 45%



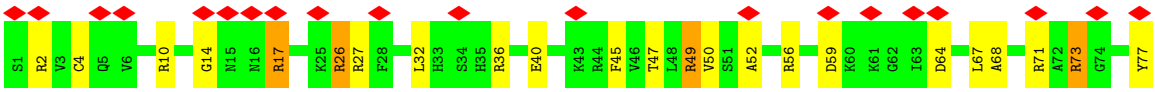
• Molecule 24: POLY-ALA NASCENT CHAIN

Chain AZ: 55% 80% 20%



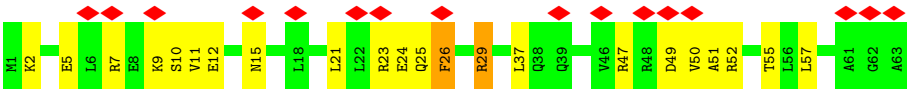
• Molecule 25: 50S RIBOSOMAL PROTEIN L28

Chain B0: 26% 70% 25% 5%



• Molecule 26: 50S RIBOSOMAL PROTEIN L29

Chain B1: 25% 65% 32%

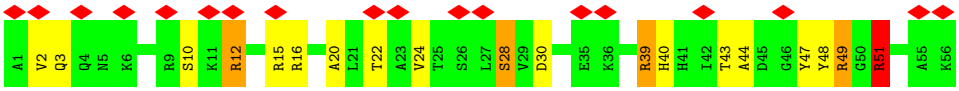


• Molecule 27: 50S RIBOSOMAL PROTEIN L30

Chain B2: 22% 76% 24%

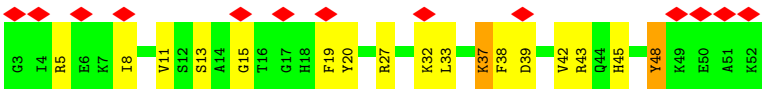
• Molecule 28: 50S RIBOSOMAL PROTEIN L32

Chain B3: 32% 66% 25% 7%



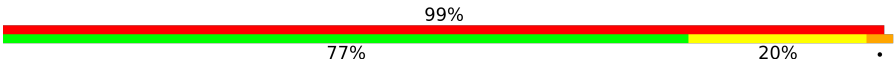
• Molecule 29: 50S RIBOSOMAL PROTEIN L33

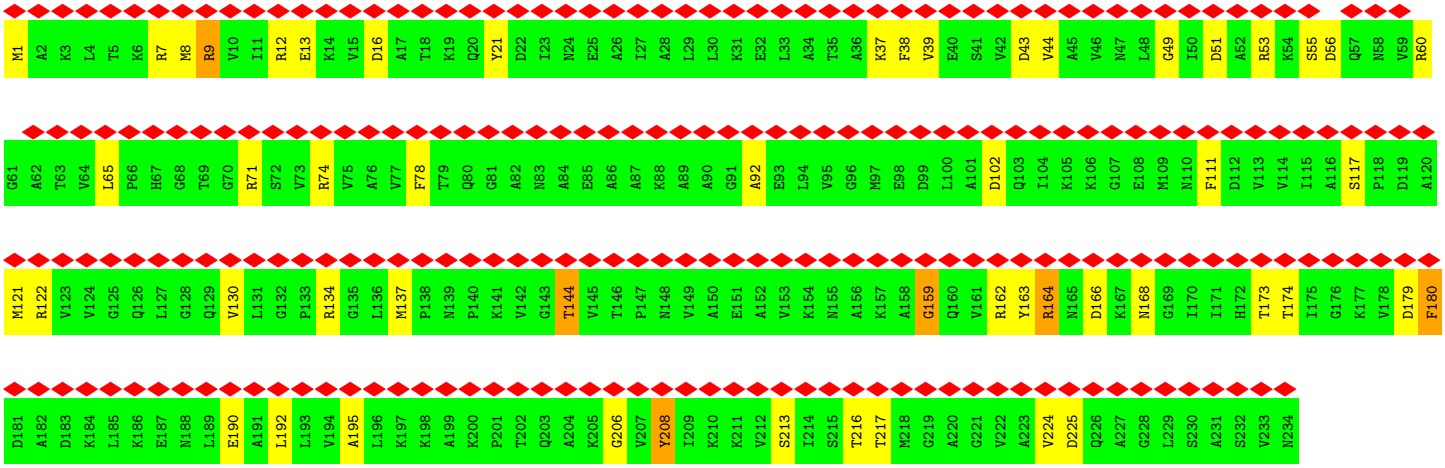
Chain B4: 26% 66% 30%



- Molecule 30: 50S RIBOSOMAL PROTEIN L1

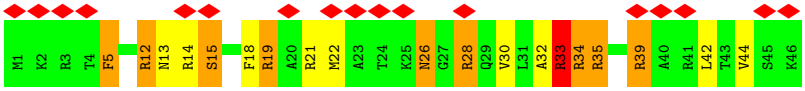
Chain B5:





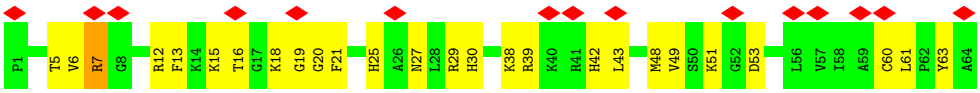
- Molecule 31: 50S RIBOSOMAL PROTEIN L34

Chain B6:



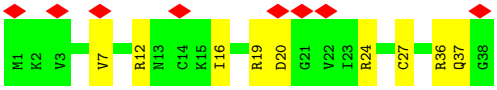
- Molecule 32: 50S RIBOSOMAL PROTEIN L35

Chain B7:



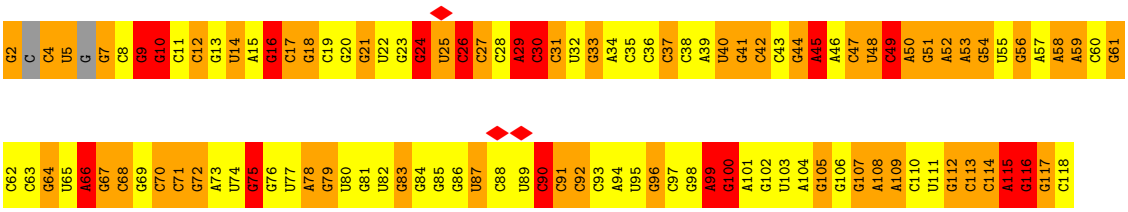
- Molecule 33: 50S RIBOSOMAL PROTEIN L36

Chain B8:



- Molecule 34: 5S RIBOSOMAL RNA

Chain BA:



• Molecule 35: 23S RIBOSOMAL RNA

Chain BB: 38% 45% 17%

G1 G2 U3 U4 A5 A6 G7 C8 G9 A10 C11 U12 A13 A14 G15 C16 G17 U18 A19 C20 A21 C22 G23 G24 U25 G26 G27 A28 U29 G30 C31 C32 C33 U34 G35 G36 C37 A38 G39 U40 C41 A42 G43 A44 G45 G46 C47 G48 A49 U50 G51 A52 A53 G54 G55 A56 C57 G58 U59 G60

C61 U62 A63 A64 U65 C66 U67 G68 C69 G70 A71 U72 A73 A74 G75 C76 G77 U78 C79 G80 G81 U82 A83 A84 G85 G86 U87 G88 A89 U90 A91 U92 G93 A94 A95 C96 C97 G98 U99 U100 A101 U102 A103 A104 C105 C106 G107 G108 C109 G110 A111 U112 U113 U114 C115 C116 G117 A118 A119 U120

G121 G122 G123 G124 A125 A126 A127 C128 C129 C130 A131 G132 U133 G134 U135 G136 U137 U138 U139 C140 G141 A142 C143 A144 C145 A146 C147 U148 A149 U150 C151 A152 U153 U154 A155 A156 C157 U158 G159 A160 A161 U162 C163 C164 A165 U166 A167 G168 G169 U170 A171 A172 A173 U174 G175 A176 G177 G178 C179 G180

A181 A182 C183 C184 G185 A186 G187 G188 G189 A190 A191 C192 U193 G194 A195 A196 A197 C198 A199 U200 C201 U202 A203 A204 G205 U206 A207 C208 C209 C210 C211 G212 A213 G214 G215 A216 A217 A218 A219 G220 A221 A222 A223 U224 C225 A226 A227 C228 C229 G230 A231 G232 A233 U234 U235 C236 C237 C238 C239 C240

A241 G242 U243 A244 G245 C246 G247 G248 C249 G250 A251 G252 C253 G254 A255 A256 C257 G258 G259 U260 G261 A262 C263 C264 A265 G266 C267 C268 C269 A270 G271 A272 G273 C274 C275 U276 G277 A278 A279 U280 C281 A282 G283 U284 G285 U286 G287 U288 G289 U290 G291 U292 U293 A294 G295 U296 G297 G298 A299 A300

G301 C302 G303 U304 C305 U306 G307 G308 A309 A310 A311 G312 G313 C314 G315 C316 G317 C318 G319 A320 U321 A322 C323 C324 G325 G326 G327 U328 G329 A330 C331 A332 G333 C334 C335 C336 C337 G338 U339 A340 C341 A342 C343 A344 A345 A346 A347 A348 U349 G350 C351 A352 C353 A354 U355 G356 C357 U358 G359 U360

G361 A362 G363 C364 U365 C366 G367 A368 U369 G370 A371 G372 U373 A374 G375 G376 G377 C378 G379 G380 G381 A382 C383 A384 C385 G386 U387 G388 G389 U390 A391 U392 C393 C394 U395 G396 U397 C398 U399 G400 A401 A402 U403 A404 U405 G406 G407 G408 G409 G410 G411 A412 C413 C414 A415 U416 C417 C418 U419 C420

C421 A422 A423 G424 G425 C426 U427 A428 A429 A430 U431 A432 C433 U434 C435 C436 U437 G438 A439 C440 U441 G442 A443 C444 C445 G446 A447 U448 G449 C450 U451 G452 A453 A454 C455 C456 A457 G458 U459 A460 C461 C462 G463 U464 G465 A466 G467 G468 G469 A470 A471 A472 G473 G474 C475 G476 A477 A478 A479 A480

G481 A482 A483 C484 C485 C486 C487 G488 G489 C490 G491 A492 G493 G494 G495 G496 A497 G498 U499 G500 A501 A502 A503 A504 A505 G506 A507 A508 C509 C510 U511 G512 A513 A514 A515 C516 C517 G518 U519 G520 C521 A522 C523 G524 U525 A526 C527 A528 A529 G530 C531 A532 G533 U534 G535 U536 G537 A538 G539 C540

A541 C542 G543 C544 U545 U546 A547 G548 G549 C550 G551 U552 G553 U554 G555 A556 C557 U558 G559 C560 G561 U562 A563 C564 C565 U566 U567 U568 U569 G570 U571 A572 U573 A574 A575 U576 G577 G578 G579 U580 C581 A582 G583 C584 G585 A586 C587 U588 U589 A590 U591 A592 U593 U594 C595 U596 G597 U598 A599 G600

C601 A602 A603 G604 G605 U606 U607 A608 A609 C610 C611 G612 A613 A614 U615 A616 G617 G618 G619 G620 A621 G622 C623 C624 G625 A626 A627 G628 G629 G630 A631 A632 A633 C634 C635 G636 A637 G638 U639 C640 U641 U642 A643 A644 G645 U646 G647 G648 G649 C650 G651 U652 U653 A654 A655 G656 U657 U658 G659 C660

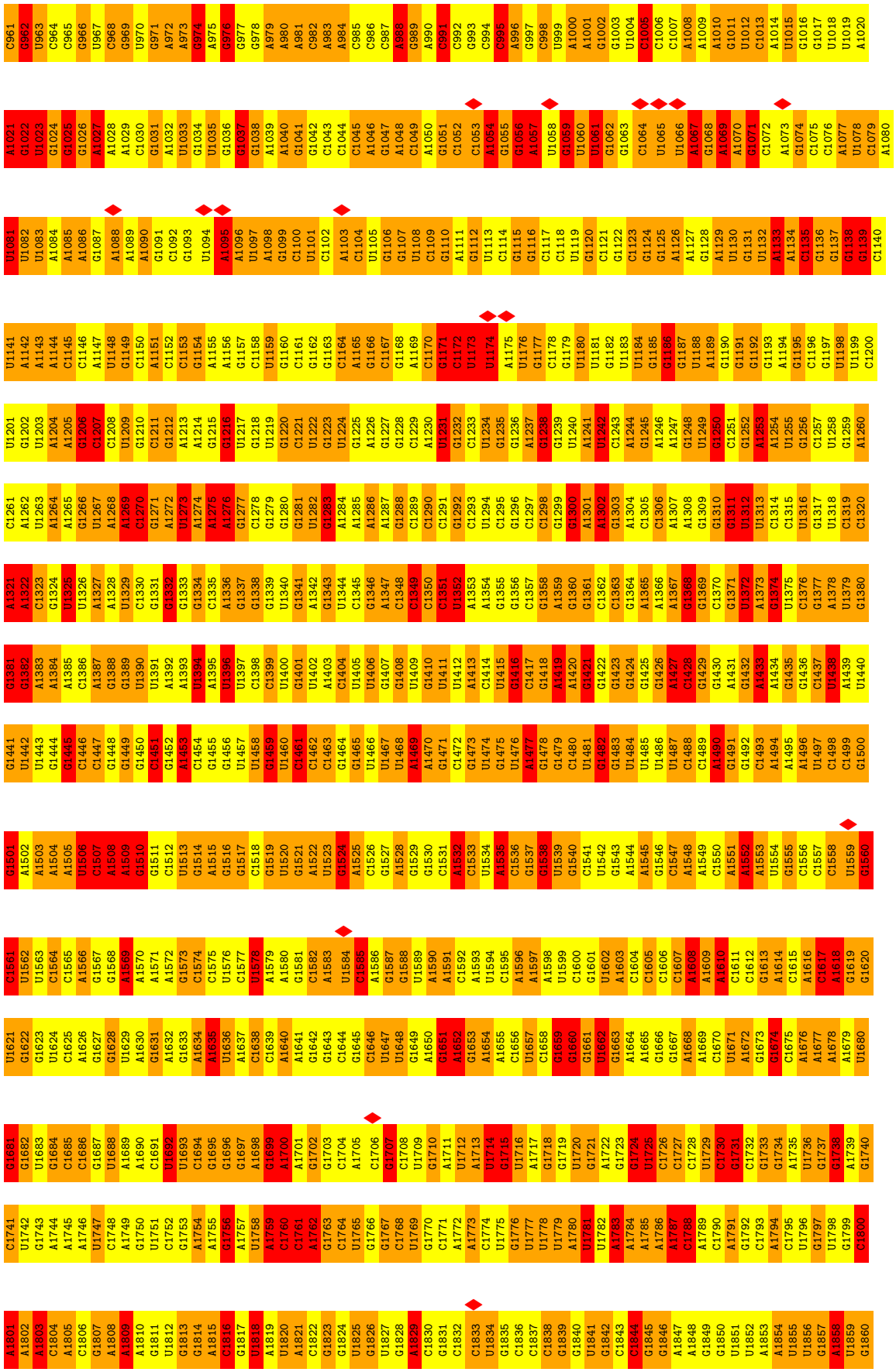
A661 G662 G663 G664 U665 A666 U667 A668 G669 A670 C671 G672 G673 G674 A675 A676 A677 G678 G679 A680 G681 G682 U683 G684 A685 U686 G687 U688 A689 G690 C691 C692 A693 U694 G695 G696 G697 G698 A699 G700 G701 U702 U703 G704 A705 A706 G707 G708 U709 U710 G711 G712 G713 U714 A715 A716 C717 A718 C719 U720

A721 A722 C723 U724 G725 G726 A727 G728 G729 A730 C731 C732 G733 A734 A735 C736 A737 G738 A739 C740 U741 A742 A743 U744 G745 U746 U747 G748 A749 A750 A751 A752 A753 U754 U755 A756 G757 C758 G759 G760 A761 U762 G763 A764 C765 U766 U767 G768 U769 G770 G771 C772 U773 G774 G775 G776 G777 G778 U779 G780

A781 A782 A783 G784 G785 C786 C787 G797 G798 A788 A789 U790 C791 A792 A793 A794 C795 C796 G797 G798 G799 A800 G801 A802 U803 A804 G805 C806 U807 G808 G809 U810 U811 C812 U813 C814 C815 C816 C817 G818 A819 A820 A821 G822 C823 U824 A825 U826 U827 U828 A829 G830 G831 U832 A833 G834 C835 C836 C837 G838 U839 C840

G841 U842 G843 A844 A845 U846 U847 C848 A849 U850 C851 U852 C853 C854 G855 G856 G857 G858 G859 U860 A861 G862 A863 G864 C865 A866 C867 U868 G869 U870 U871 U872 C873 G874 G875 C876 A877 A878 G879 G880 G881 G882 G883 U884 C885 A886 U887 C888 C889 C890 G891 A892 C893 U894 U895 A896 C897 C898 A899 A900

C901 C902 C903 G904 A905 U906 G907 C908 A909 A910 A911 C912 U913 G914 G915 G916 A917 A918 U919 A920 G921 C922 G923 G924 A925 G926 A927 A928 U929 G930 U931 U932 A933 U934 C935 A936 C937 G938 G939 G940 A941 G942 A943 C944 A945 G946 A947 C948 G949 G950 C951 G952 G953 G954 U955 G956 G957 U958 A959 A960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A1021 G1022 U1023 G1024 G1025 G1026 A1027 A1028 A1029 C1030 G1031 A1032 U1033 G1034 U1035 G1036 G1037 G1038 A1039 A1040 G1041 G1042 C1043 C1044 C1045 A1046 G1047 A1048 C1049 A1050 G1051 C1052 C1053 A1064 G1055 G1056 A1057 U1058 G1059 U1060 U1061 G1062 G1063 C1064 U1065 U1066 A1067 G1068 A1069 A1070 G1071 C1072 A1073 G1074 C1075 C1076 A1077 U1078 C1079 A1080
U1081 U1082 U1083 A1084 A1085 A1086 G1087 A1088 A1089 A1090 G1091 C1092 G1093 U1094 A1095 A1096 U1097 A1098 G1099 C1100 U1101 C1102 A1103 C1104 U1105 G1106 G1107 U1108 C1109 G1110 A1111 G1112 U1113 C1114 G1115 G1116 C1117 C1118 G1119 U1120 C1121 G1122 C1123 G1124 G1125 A1126 A1127 G1128 A1129 U1130 G1131 U1132 A1133 A1134 C1135 G1136 G1137 G1138 G1139 C1140
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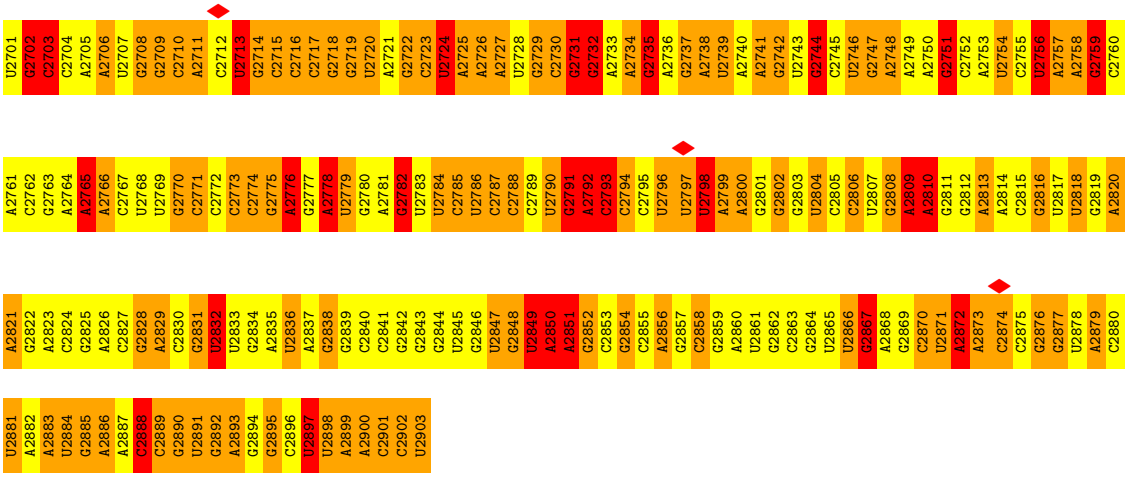
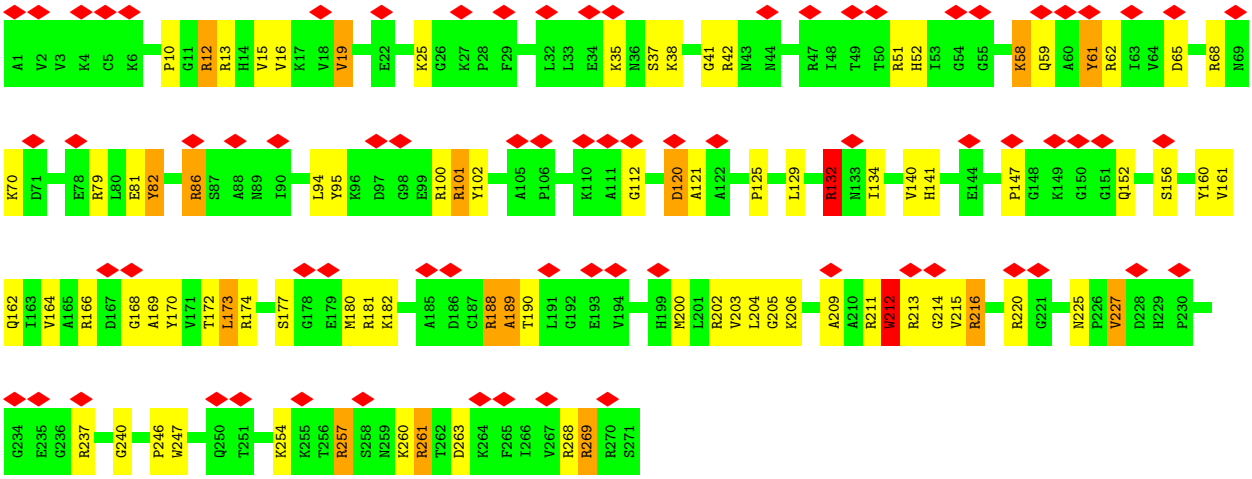


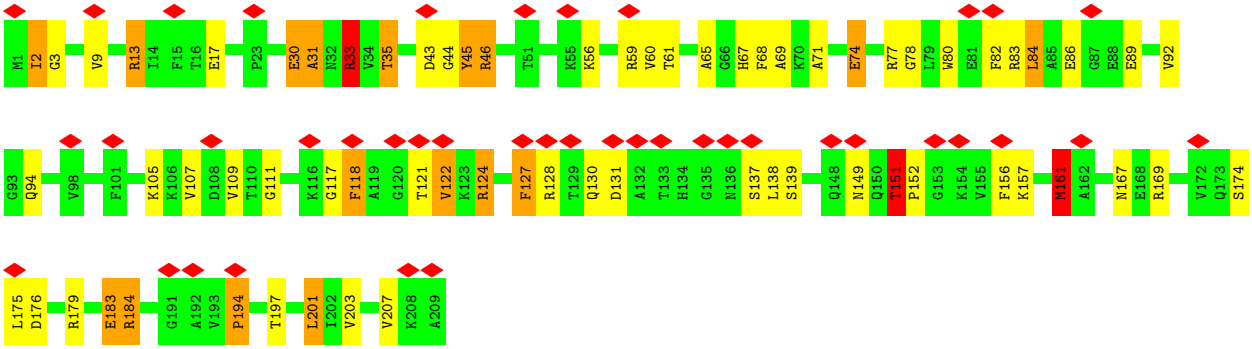
- Molecule 36: 50S RIBOSOMAL PROTEIN L2

Chain BC:



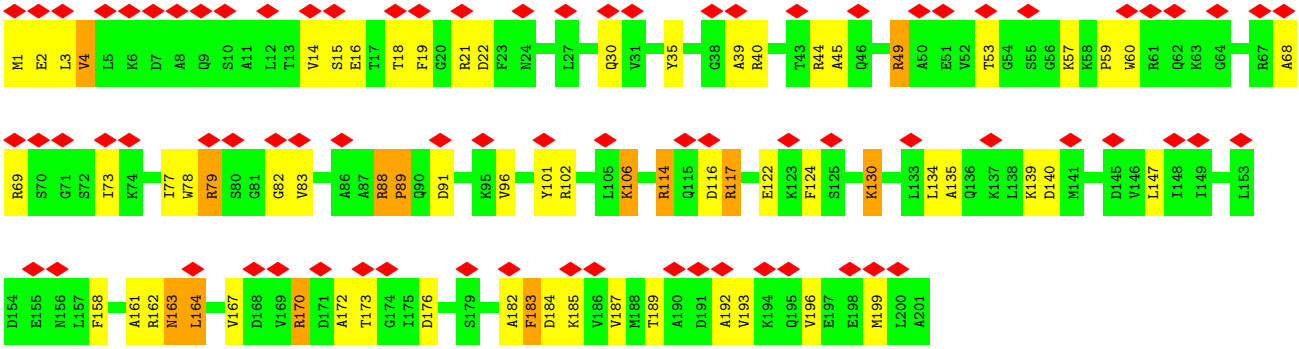
- Molecule 37: 50S RIBOSOMAL PROTEIN L3

Chain BD:



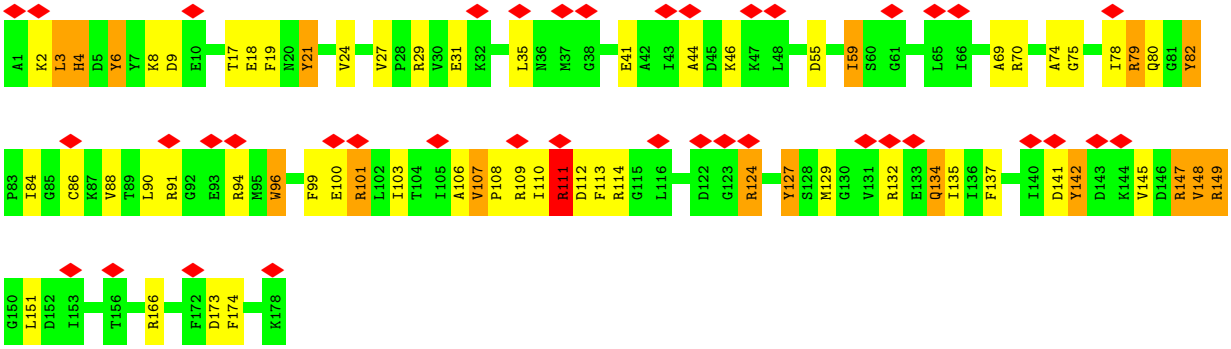
- Molecule 38: 50S RIBOSOMAL PROTEIN L4

Chain BE:



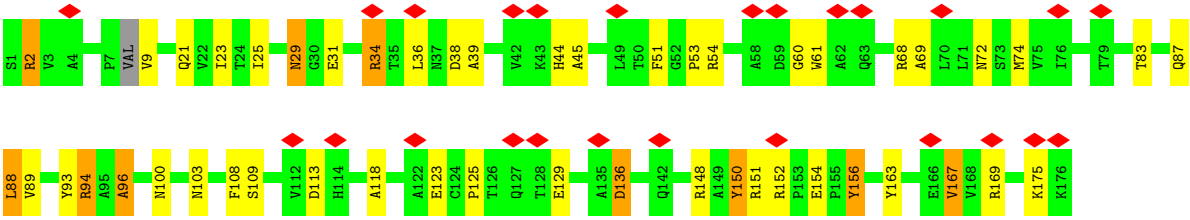
• Molecule 39: 50S RIBOSOMAL PROTEIN L5

Chain BF:



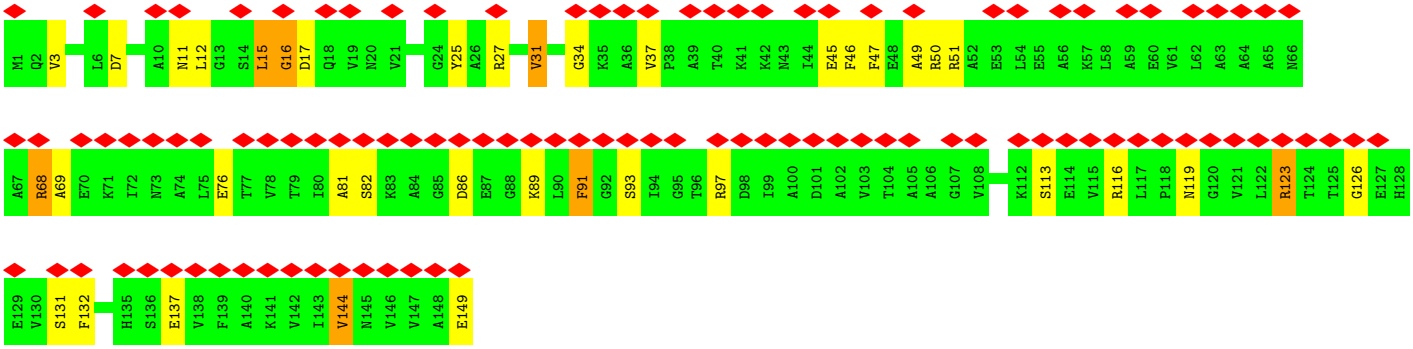
• Molecule 40: 50S RIBOSOMAL PROTEIN L6

Chain BG:



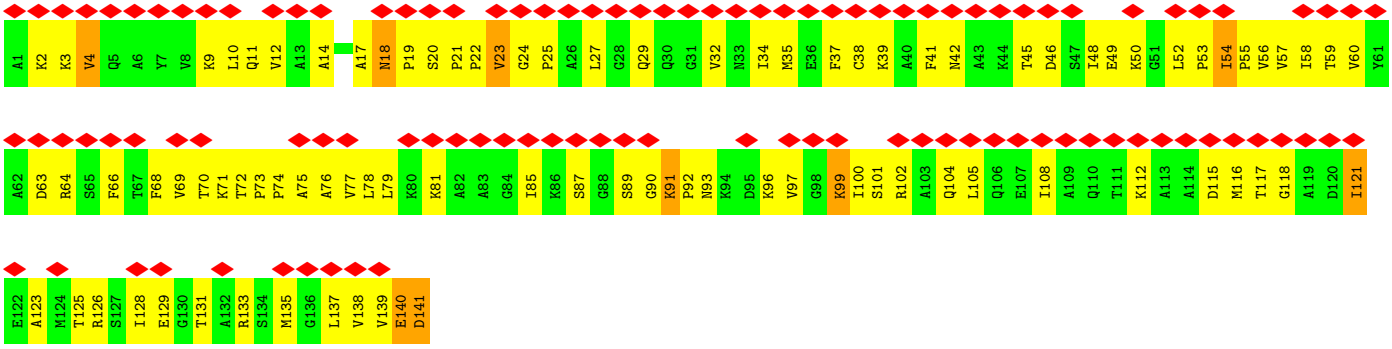
• Molecule 41: 50S RIBOSOMAL PROTEIN L9

Chain BH:



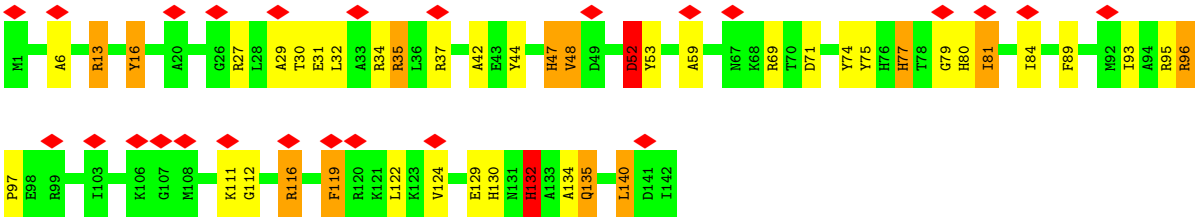
- Molecule 42: 50S RIBOSOMAL PROTEIN L11

Chain BI:



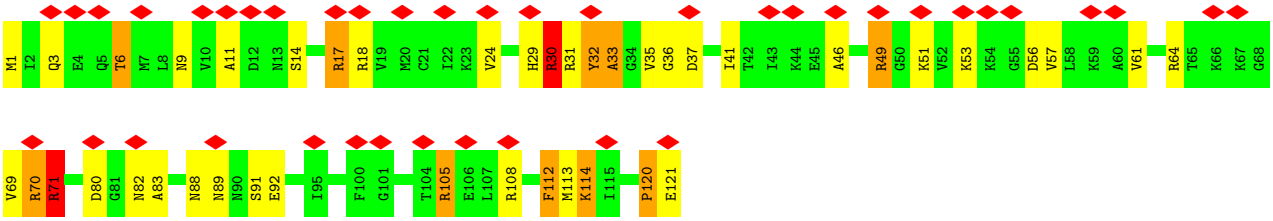
- Molecule 43: 50S RIBOSOMAL PROTEIN L13

Chain BJ:



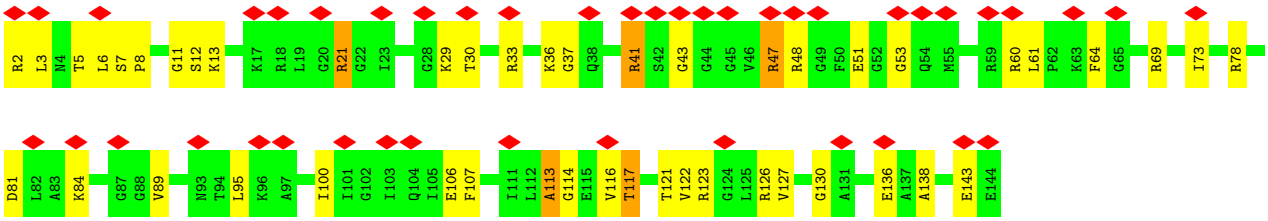
- Molecule 44: 50S RIBOSOMAL PROTEIN L14

Chain BK:



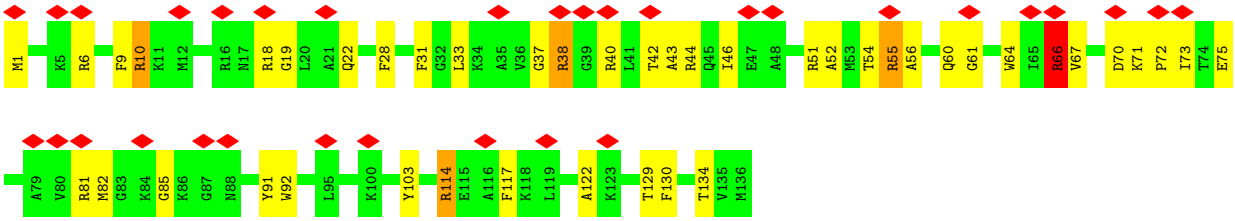
- Molecule 45: 50S RIBOSOMAL PROTEIN L15

Chain BL:



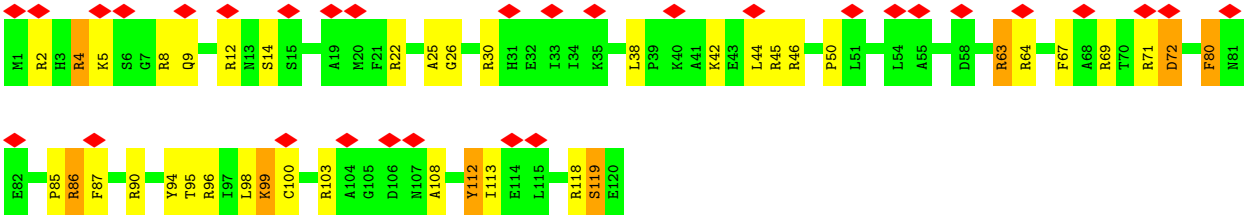
- Molecule 46: 50S RIBOSOMAL PROTEIN L16

Chain BM:



- Molecule 47: 50S RIBOSOMAL PROTEIN L17

Chain BN:

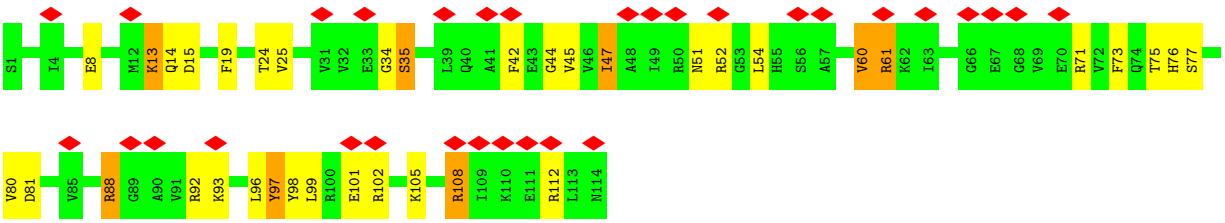


- Molecule 48: 50S RIBOSOMAL PROTEIN L18

Chain BO:

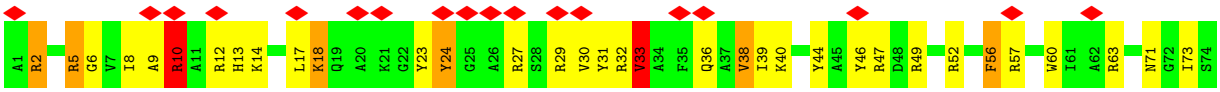
- Molecule 49: 50S RIBOSOMAL PROTEIN L19

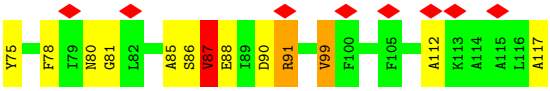
Chain BP:



- Molecule 50: 50S RIBOSOMAL PROTEIN L20

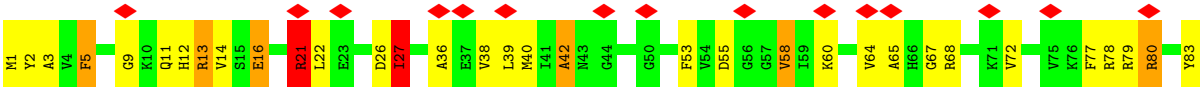
Chain BQ:

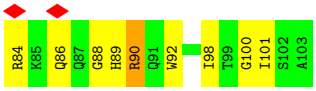




- Molecule 51: 50S RIBOSOMAL PROTEIN L21

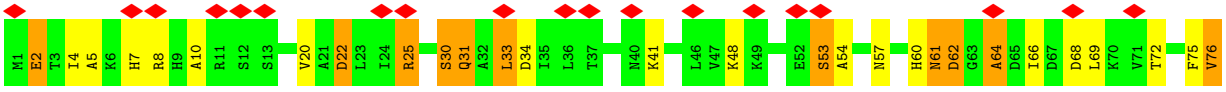
Chain BR:

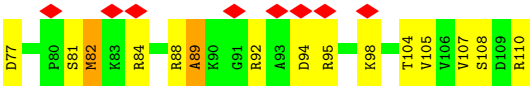




- Molecule 52: 50S RIBOSOMAL PROTEIN L22

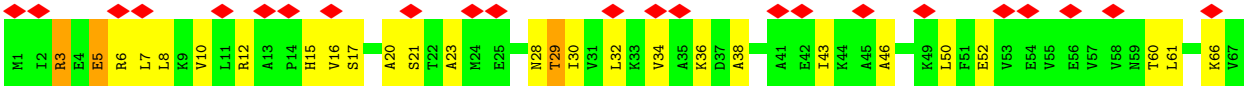
Chain BS:

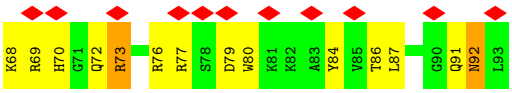




- Molecule 53: 50S RIBOSOMAL PROTEIN L23

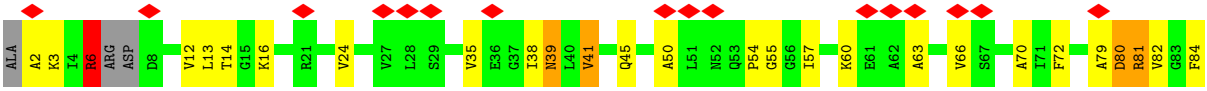
Chain BT:

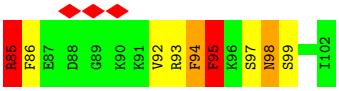




- Molecule 54: 50S RIBOSOMAL PROTEIN L24

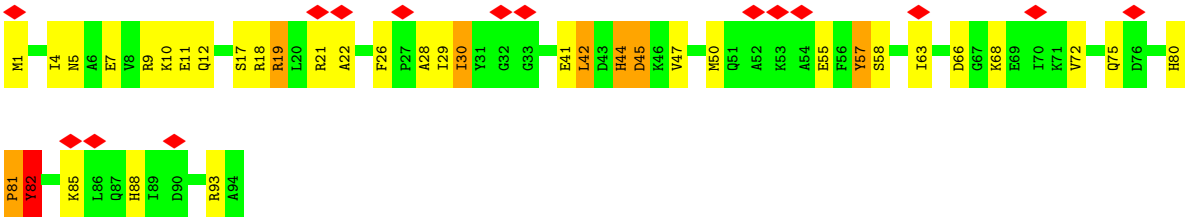
Chain BU:





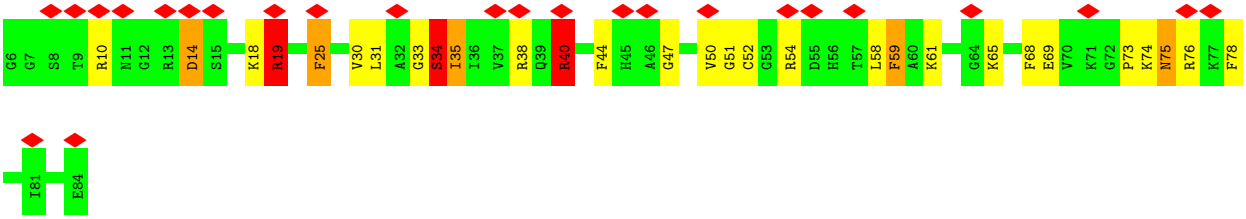
- Molecule 55: 50S RIBOSOMAL PROTEIN L25

Chain BW:



- Molecule 56: 50S RIBOSOMAL PROTEIN L27

Chain BY:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	263000	Depositor
Resolution determination method	Not provided	
CTF correction method	DEFOCUS GROUP VOLUMES	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	20	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	38900	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	0.760	Depositor
Minimum map value	-0.510	Depositor
Average map value	0.005	Depositor
Map value standard deviation	0.047	Depositor
Recommended contour level	0.12	Depositor
Map size (Å)	361.62, 363.82498, 361.62	wwPDB
Map dimensions	294, 294, 294	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.23, 1.2375, 1.23	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: 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	3.37	4837/36762 (13.2%)	3.72	8282/57350 (14.4%)
2	AB	1.71	14/1735 (0.8%)	2.05	53/2338 (2.3%)
3	AC	1.73	20/1651 (1.2%)	2.05	55/2225 (2.5%)
4	AD	1.80	24/1665 (1.4%)	2.05	48/2227 (2.2%)
5	AE	1.73	17/1118 (1.5%)	1.97	27/1504 (1.8%)
6	AF	1.77	7/835 (0.8%)	1.96	17/1128 (1.5%)
7	AG	1.82	18/1187 (1.5%)	2.01	40/1591 (2.5%)
8	AH	1.79	10/989 (1.0%)	2.07	29/1326 (2.2%)
9	AI	1.97	21/1034 (2.0%)	2.09	33/1375 (2.4%)
10	AJ	1.78	11/796 (1.4%)	1.89	15/1077 (1.4%)
11	AK	1.75	7/893 (0.8%)	1.96	18/1205 (1.5%)
12	AL	1.85	13/969 (1.3%)	1.98	28/1300 (2.2%)
13	AM	1.73	12/884 (1.4%)	2.02	28/1181 (2.4%)
14	AN	1.80	6/785 (0.8%)	1.92	19/1043 (1.8%)
15	AO	1.77	11/724 (1.5%)	1.90	24/966 (2.5%)
16	AP	1.84	9/648 (1.4%)	2.16	26/870 (3.0%)
17	AQ	1.73	4/657 (0.6%)	1.93	18/881 (2.0%)
18	AR	1.74	6/462 (1.3%)	2.28	16/621 (2.6%)
19	AS	1.78	8/652 (1.2%)	2.15	26/877 (3.0%)
20	AT	1.66	4/671 (0.6%)	1.93	17/888 (1.9%)
21	AU	1.82	6/430 (1.4%)	2.16	13/570 (2.3%)
22	AV	2.38	76/1820 (4.2%)	2.84	256/2836 (9.0%)
23	AX	1.81	4/264 (1.5%)	2.14	19/407 (4.7%)
24	AZ	1.97	1/99 (1.0%)	1.94	5/137 (3.6%)
25	B0	1.75	7/635 (1.1%)	2.27	19/848 (2.2%)
26	B1	1.72	5/510 (1.0%)	1.94	14/677 (2.1%)
27	B2	1.75	4/453 (0.9%)	1.86	10/605 (1.7%)
28	B3	1.82	6/450 (1.3%)	2.19	16/599 (2.7%)
29	B4	1.63	4/416 (1.0%)	2.02	13/554 (2.3%)
30	B5	1.56	11/1748 (0.6%)	1.95	40/2355 (1.7%)
31	B6	1.85	4/380 (1.1%)	2.31	17/498 (3.4%)
32	B7	1.68	4/513 (0.8%)	2.03	12/676 (1.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
33	B8	1.83	4/303 (1.3%)	2.01	7/397 (1.8%)
34	BA	3.34	356/2753 (12.9%)	3.78	615/4288 (14.3%)
35	BB	3.39	9308/69800 (13.3%)	3.73	15832/108892 (14.5%)
36	BC	1.81	24/2121 (1.1%)	2.05	60/2852 (2.1%)
37	BD	1.77	16/1586 (1.0%)	2.01	31/2134 (1.5%)
38	BE	1.69	8/1571 (0.5%)	1.97	41/2113 (1.9%)
39	BF	1.73	14/1444 (1.0%)	2.17	40/1937 (2.1%)
40	BG	1.76	13/1335 (1.0%)	2.04	28/1803 (1.6%)
41	BH	1.74	11/1122 (1.0%)	2.05	35/1515 (2.3%)
42	BI	0.62	2/1046 (0.2%)	0.56	1/1410 (0.1%)
43	BJ	1.77	12/1152 (1.0%)	2.04	30/1551 (1.9%)
44	BK	1.76	13/939 (1.4%)	1.99	23/1257 (1.8%)
45	BL	1.78	10/1054 (0.9%)	1.94	28/1403 (2.0%)
46	BM	1.83	9/1093 (0.8%)	2.07	30/1460 (2.1%)
47	BN	1.76	12/973 (1.2%)	2.22	32/1301 (2.5%)
48	BO	1.79	15/902 (1.7%)	2.02	24/1209 (2.0%)
49	BP	1.68	5/929 (0.5%)	2.03	20/1242 (1.6%)
50	BQ	1.89	15/960 (1.6%)	2.11	29/1278 (2.3%)
51	BR	1.80	11/829 (1.3%)	2.03	23/1107 (2.1%)
52	BS	1.71	7/864 (0.8%)	2.16	34/1156 (2.9%)
53	BT	1.69	5/744 (0.7%)	1.99	18/994 (1.8%)
54	BU	1.73	3/761 (0.4%)	2.02	25/1013 (2.5%)
55	BW	1.79	13/766 (1.7%)	2.05	18/1025 (1.8%)
56	BY	1.73	3/603 (0.5%)	2.11	23/797 (2.9%)
All	All	2.98	15080/158485 (9.5%)	3.34	26300/236869 (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	740
2	AB	0	5
3	AC	0	7
4	AD	0	11
5	AE	0	5
6	AF	0	3
7	AG	0	3
8	AH	0	3
9	AI	0	7
10	AJ	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
11	AK	0	3
12	AL	0	5
13	AM	0	9
14	AN	0	3
15	AO	0	6
16	AP	0	4
17	AQ	0	1
18	AR	0	5
19	AS	0	4
20	AT	0	3
22	AV	0	13
23	AX	0	4
25	B0	0	4
26	B1	0	1
28	B3	0	2
29	B4	0	3
30	B5	0	6
31	B6	0	3
32	B7	0	1
34	BA	0	50
35	BB	0	1343
36	BC	0	8
37	BD	0	6
38	BE	0	5
39	BF	0	10
40	BG	0	3
41	BH	0	1
43	BJ	0	4
44	BK	0	5
45	BL	0	1
46	BM	0	3
47	BN	0	5
48	BO	0	2
49	BP	0	5
50	BQ	0	5
51	BR	0	3
52	BS	0	1
53	BT	0	1
54	BU	0	2
55	BW	0	4
56	BY	0	5
All	All	0	2342

All (15080) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1403	A	N9-C4	21.34	1.50	1.37
35	BB	1301	A	N7-C5	-20.38	1.27	1.39
1	AA	930	C	N1-C6	19.80	1.49	1.37
1	AA	816	A	N7-C5	-19.29	1.27	1.39
35	BB	1821	A	N9-C4	19.18	1.49	1.37
35	BB	2648	G	N7-C5	-18.24	1.28	1.39
1	AA	783	C	N1-C6	17.63	1.47	1.37
1	AA	1444	U	C2-N3	17.34	1.49	1.37
35	BB	2831	G	N7-C5	-17.29	1.28	1.39
35	BB	1622	G	C2-N3	17.20	1.46	1.32
35	BB	2758	A	C8-N7	-17.19	1.19	1.31
35	BB	1435	G	N7-C5	-17.19	1.28	1.39
35	BB	36	G	N7-C5	-17.16	1.28	1.39
35	BB	457	A	N7-C5	-16.97	1.29	1.39
35	BB	505	A	N7-C5	-16.97	1.29	1.39
35	BB	1860	G	C6-N1	16.96	1.51	1.39
35	BB	869	G	C6-N1	16.63	1.51	1.39
35	BB	1404	C	N1-C6	-16.52	1.27	1.37
1	AA	91	U	N3-C4	16.48	1.53	1.38
35	BB	693	A	N7-C5	-16.41	1.29	1.39
35	BB	1721	G	N7-C5	-16.38	1.29	1.39
35	BB	1422	G	N7-C5	-16.15	1.29	1.39
35	BB	470	A	C8-N7	-16.11	1.20	1.31
35	BB	195	A	N7-C5	-16.02	1.29	1.39
1	AA	713	G	C6-N1	15.79	1.50	1.39
35	BB	2121	G	C6-N1	15.74	1.50	1.39
35	BB	477	A	N3-C4	-15.66	1.25	1.34
35	BB	2048	G	C2-N3	15.65	1.45	1.32
1	AA	979	C	N1-C6	15.57	1.46	1.37
1	AA	572	A	N7-C5	-15.55	1.29	1.39
22	AV	39	G	N9-C4	15.53	1.50	1.38
35	BB	1055	G	C2-N3	15.50	1.45	1.32
35	BB	2352	A	N7-C5	-15.50	1.29	1.39
35	BB	269	C	N1-C6	-15.41	1.27	1.37
35	BB	668	A	N7-C5	15.39	1.48	1.39
1	AA	1218	C	N1-C6	15.38	1.46	1.37
1	AA	888	G	N7-C5	-15.38	1.30	1.39
35	BB	2598	A	N7-C5	-15.37	1.30	1.39
1	AA	195	A	N7-C5	-15.33	1.30	1.39
1	AA	1375	A	N9-C4	15.33	1.47	1.37
35	BB	2509	G	C8-N7	-15.27	1.21	1.30
35	BB	1022	G	N7-C5	-15.26	1.30	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	302	G	C2-N3	15.22	1.45	1.32
35	BB	2603	G	N7-C5	-15.21	1.30	1.39
35	BB	1828	G	N7-C5	-15.21	1.30	1.39
1	AA	421	U	C2-N3	15.21	1.48	1.37
35	BB	570	G	N7-C5	-15.14	1.30	1.39
35	BB	294	A	N9-C4	-15.12	1.28	1.37
35	BB	238	C	N1-C6	15.11	1.46	1.37
1	AA	1021	A	N3-C4	-15.07	1.25	1.34
35	BB	825	A	N7-C5	-15.06	1.30	1.39
1	AA	1266	G	N7-C5	-15.04	1.30	1.39
35	BB	556	A	N7-C5	-14.98	1.30	1.39
35	BB	359	G	N7-C5	-14.92	1.30	1.39
35	BB	526	A	C6-N6	14.92	1.45	1.33
1	AA	686	U	C2-N3	14.91	1.48	1.37
35	BB	1532	A	N7-C5	-14.90	1.30	1.39
35	BB	49	A	N7-C5	-14.86	1.30	1.39
35	BB	411	G	N7-C5	-14.81	1.30	1.39
1	AA	1093	A	N7-C5	-14.79	1.30	1.39
35	BB	1280	G	N7-C5	-14.77	1.30	1.39
35	BB	700	G	C6-N1	14.73	1.49	1.39
1	AA	904	U	C2-N3	14.72	1.48	1.37
35	BB	740	C	N1-C6	14.64	1.46	1.37
1	AA	1455	G	N1-C2	14.64	1.49	1.37
35	BB	669	G	N7-C5	-14.64	1.30	1.39
35	BB	1900	A	C6-N6	14.61	1.45	1.33
35	BB	1900	A	N7-C5	-14.58	1.30	1.39
35	BB	1775	U	C2-N3	14.57	1.48	1.37
35	BB	425	G	C5-C4	-14.55	1.28	1.38
35	BB	1993	U	C2-N3	14.55	1.48	1.37
35	BB	2405	G	N7-C5	-14.54	1.30	1.39
1	AA	1502	A	N7-C5	-14.51	1.30	1.39
35	BB	1001	A	N7-C5	-14.51	1.30	1.39
1	AA	545	C	N3-C4	14.49	1.44	1.33
35	BB	2298	A	N7-C5	-14.47	1.30	1.39
35	BB	81	G	N7-C5	-14.46	1.30	1.39
1	AA	602	A	N7-C5	-14.42	1.30	1.39
1	AA	1468	A	N7-C5	-14.41	1.30	1.39
35	BB	2070	A	C6-N1	14.40	1.45	1.35
35	BB	1677	A	N7-C5	-14.39	1.30	1.39
35	BB	1690	A	N7-C5	-14.34	1.30	1.39
35	BB	2250	G	N7-C5	-14.29	1.30	1.39
35	BB	2477	U	C4-C5	14.21	1.56	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	61	G	C8-N7	14.19	1.39	1.30
35	BB	2837	A	N3-C4	14.14	1.43	1.34
35	BB	167	A	N7-C5	-14.13	1.30	1.39
35	BB	1420	A	N7-C5	-14.11	1.30	1.39
35	BB	1240	U	C2-N3	14.10	1.47	1.37
1	AA	1287	A	N7-C5	-14.09	1.30	1.39
35	BB	2655	G	C2-N3	14.08	1.44	1.32
35	BB	472	A	C6-N6	14.06	1.45	1.33
35	BB	88	G	N7-C5	-14.04	1.30	1.39
1	AA	1455	G	N7-C5	-14.00	1.30	1.39
35	BB	77	G	C5-C4	14.00	1.48	1.38
35	BB	1202	G	N1-C2	13.99	1.49	1.37
35	BB	2198	A	N9-C4	13.99	1.46	1.37
1	AA	953	G	C2-N3	13.99	1.44	1.32
35	BB	1302	A	N7-C5	-13.98	1.30	1.39
35	BB	603	A	N9-C4	-13.97	1.29	1.37
35	BB	761	A	C6-N6	13.95	1.45	1.33
1	AA	1507	A	C6-N6	13.93	1.45	1.33
1	AA	416	G	N9-C8	-13.90	1.28	1.37
35	BB	1579	A	N7-C5	-13.89	1.30	1.39
35	BB	834	G	C6-N1	13.87	1.49	1.39
35	BB	1603	A	N7-C5	-13.87	1.30	1.39
35	BB	1528	A	C6-N6	13.86	1.45	1.33
1	AA	1304	G	N3-C4	13.86	1.45	1.35
35	BB	1410	G	N3-C4	-13.85	1.25	1.35
35	BB	2561	U	C2-N3	13.80	1.47	1.37
35	BB	2541	A	N7-C5	-13.80	1.30	1.39
35	BB	2101	A	N7-C5	-13.78	1.30	1.39
35	BB	2169	A	N9-C4	13.77	1.46	1.37
35	BB	2814	A	C6-N6	13.76	1.45	1.33
35	BB	502	A	N7-C5	-13.76	1.30	1.39
1	AA	275	G	P-O5'	-13.75	1.46	1.59
35	BB	2190	G	C8-N7	-13.75	1.22	1.30
1	AA	695	A	C6-N1	13.75	1.45	1.35
1	AA	1204	A	N9-C4	-13.73	1.29	1.37
35	BB	2495	G	C5-C4	13.73	1.48	1.38
35	BB	1455	G	N7-C5	-13.73	1.31	1.39
35	BB	1989	G	N7-C5	-13.71	1.31	1.39
1	AA	812	G	C6-N1	13.65	1.49	1.39
35	BB	2226	C	N1-C6	13.64	1.45	1.37
1	AA	557	G	N7-C5	13.62	1.47	1.39
35	BB	833	A	N7-C5	-13.61	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	308	C	N3-C4	13.60	1.43	1.33
35	BB	849	A	N3-C4	-13.60	1.26	1.34
1	AA	845	A	C6-N6	13.58	1.44	1.33
35	BB	1303	G	C6-N1	13.58	1.49	1.39
35	BB	1017	G	N7-C5	-13.58	1.31	1.39
1	AA	663	A	N7-C5	-13.57	1.31	1.39
35	BB	1001	A	N3-C4	-13.56	1.26	1.34
35	BB	1010	A	N7-C5	-13.55	1.31	1.39
1	AA	259	G	C8-N7	-13.54	1.22	1.30
35	BB	1254	A	N7-C5	-13.53	1.31	1.39
35	BB	802	A	N7-C5	-13.51	1.31	1.39
35	BB	1370	C	N1-C6	-13.50	1.29	1.37
1	AA	617	G	C2-N3	13.49	1.43	1.32
1	AA	693	G	N7-C5	-13.49	1.31	1.39
35	BB	1416	G	N9-C4	13.47	1.48	1.38
35	BB	666	A	C6-N6	13.47	1.44	1.33
35	BB	442	G	C6-N1	13.43	1.49	1.39
35	BB	1919	A	N7-C5	-13.43	1.31	1.39
35	BB	2270	A	C6-N1	13.42	1.45	1.35
35	BB	701	G	C6-N1	13.41	1.49	1.39
35	BB	845	A	C6-N1	13.40	1.45	1.35
35	BB	33	C	N1-C6	13.40	1.45	1.37
35	BB	1236	G	N7-C5	-13.39	1.31	1.39
1	AA	794	A	N7-C5	-13.38	1.31	1.39
35	BB	1899	A	N7-C5	-13.38	1.31	1.39
35	BB	690	G	N7-C5	-13.37	1.31	1.39
35	BB	83	A	N9-C4	-13.37	1.29	1.37
35	BB	54	G	C2-N3	13.35	1.43	1.32
35	BB	2812	G	C2-N3	13.35	1.43	1.32
35	BB	227	A	C6-N6	13.34	1.44	1.33
35	BB	2089	C	N1-C6	-13.33	1.29	1.37
1	AA	1072	G	N7-C5	-13.30	1.31	1.39
35	BB	1359	A	N7-C5	-13.30	1.31	1.39
22	AV	69	G	C6-N1	13.27	1.48	1.39
35	BB	2024	G	C2-N3	13.24	1.43	1.32
35	BB	219	A	N7-C5	-13.23	1.31	1.39
35	BB	646	U	C2-N3	13.23	1.47	1.37
35	BB	1659	G	P-O5'	-13.23	1.46	1.59
35	BB	1696	G	N7-C5	-13.21	1.31	1.39
35	BB	497	A	N9-C4	-13.20	1.29	1.37
35	BB	2040	G	C2-N3	13.20	1.43	1.32
1	AA	224	U	C2-N3	13.18	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1926	U	C2-N3	13.18	1.47	1.37
1	AA	546	A	N7-C5	-13.16	1.31	1.39
34	BA	58	A	N3-C4	-13.16	1.26	1.34
1	AA	845	A	N9-C4	13.14	1.45	1.37
1	AA	83	C	C4-N4	13.13	1.45	1.33
1	AA	1213	A	C6-N6	13.13	1.44	1.33
35	BB	146	A	N9-C4	13.11	1.45	1.37
1	AA	1290	G	N7-C5	-13.11	1.31	1.39
35	BB	2870	C	N3-C4	13.09	1.43	1.33
35	BB	733	G	N7-C5	-13.09	1.31	1.39
35	BB	186	G	C8-N7	-13.08	1.23	1.30
35	BB	2071	A	N7-C5	-13.07	1.31	1.39
35	BB	1021	A	N3-C4	-13.06	1.27	1.34
35	BB	467	G	N7-C5	-13.04	1.31	1.39
35	BB	958	U	C2-N3	13.03	1.46	1.37
35	BB	1750	G	C5-C4	-13.03	1.29	1.38
1	AA	807	A	N7-C5	-13.02	1.31	1.39
1	AA	1324	A	C6-N1	13.00	1.44	1.35
1	AA	144	G	C8-N7	12.98	1.38	1.30
35	BB	1211	C	N3-C4	12.97	1.43	1.33
34	BA	59	A	N7-C5	-12.96	1.31	1.39
22	AV	5	A	C6-N1	12.96	1.44	1.35
1	AA	295	C	N1-C6	12.96	1.45	1.37
35	BB	94	A	C8-N7	-12.95	1.22	1.31
1	AA	269	C	N1-C6	12.94	1.45	1.37
34	BA	30	C	N3-C4	12.94	1.43	1.33
35	BB	1530	G	N7-C5	-12.94	1.31	1.39
35	BB	2662	A	C8-N7	-12.93	1.22	1.31
35	BB	2739	U	N3-C4	12.92	1.50	1.38
35	BB	452	G	N7-C5	-12.91	1.31	1.39
35	BB	1153	C	N1-C6	12.90	1.44	1.37
1	AA	592	G	C2-N3	12.90	1.43	1.32
1	AA	1367	C	N3-C4	12.89	1.43	1.33
35	BB	2717	C	N1-C6	12.88	1.44	1.37
35	BB	186	G	C6-N1	12.87	1.48	1.39
1	AA	595	A	C6-N6	12.87	1.44	1.33
35	BB	1288	G	N7-C5	-12.86	1.31	1.39
35	BB	199	A	N3-C4	-12.85	1.27	1.34
35	BB	2444	G	C2-N3	12.85	1.43	1.32
35	BB	482	A	N3-C4	-12.84	1.27	1.34
35	BB	980	A	C6-N1	12.83	1.44	1.35
1	AA	983	A	N7-C5	-12.83	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1935	G	C5-C4	12.83	1.47	1.38
35	BB	1540	G	N1-C2	12.81	1.48	1.37
35	BB	1855	U	C2-N3	12.81	1.46	1.37
35	BB	2663	G	N9-C8	12.81	1.46	1.37
1	AA	325	A	C6-N1	12.79	1.44	1.35
35	BB	1592	C	C2-N3	12.79	1.46	1.35
1	AA	412	A	N7-C5	-12.76	1.31	1.39
1	AA	1226	C	N3-C4	12.76	1.42	1.33
1	AA	541	G	C6-N1	12.75	1.48	1.39
35	BB	2225	A	N7-C5	-12.75	1.31	1.39
1	AA	475	C	N3-C4	12.72	1.42	1.33
35	BB	2134	A	N9-C4	12.72	1.45	1.37
35	BB	74	A	N7-C5	-12.71	1.31	1.39
35	BB	1950	G	C6-N1	12.70	1.48	1.39
35	BB	2802	G	C6-N1	12.69	1.48	1.39
35	BB	1653	G	C6-N1	12.67	1.48	1.39
35	BB	70	G	N7-C5	-12.66	1.31	1.39
35	BB	1707	G	C2-N3	12.62	1.42	1.32
35	BB	1703	G	C6-N1	12.62	1.48	1.39
1	AA	31	G	N3-C4	-12.61	1.26	1.35
35	BB	1937	A	N7-C5	12.61	1.46	1.39
35	BB	853	C	C2'-C1'	-12.61	1.39	1.53
1	AA	1005	A	N7-C5	-12.58	1.31	1.39
35	BB	751	A	N7-C5	-12.58	1.31	1.39
35	BB	2885	G	N1-C2	12.57	1.47	1.37
35	BB	504	A	N3-C4	-12.56	1.27	1.34
35	BB	701	G	N7-C5	-12.56	1.31	1.39
1	AA	101	A	N7-C5	12.56	1.46	1.39
1	AA	531	U	C2-N3	12.55	1.46	1.37
1	AA	971	G	C2-N3	12.55	1.42	1.32
35	BB	772	C	P-O5'	-12.54	1.47	1.59
35	BB	1565	C	P-O5'	-12.54	1.47	1.59
1	AA	1036	A	C6-N6	12.53	1.44	1.33
35	BB	1762	A	N7-C5	-12.52	1.31	1.39
35	BB	1725	U	C2-N3	12.52	1.46	1.37
35	BB	1115	G	C8-N7	-12.51	1.23	1.30
35	BB	2476	A	N7-C5	-12.51	1.31	1.39
1	AA	263	A	N9-C4	-12.49	1.30	1.37
35	BB	2367	G	C6-N1	12.49	1.48	1.39
35	BB	772	C	N1-C6	-12.48	1.29	1.37
35	BB	2742	G	C2-N3	12.48	1.42	1.32
35	BB	1593	A	C5-C4	12.48	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	939	G	C2-N3	12.47	1.42	1.32
1	AA	1516	G	C6-N1	12.46	1.48	1.39
35	BB	138	U	C2-N3	12.45	1.46	1.37
1	AA	616	G	N7-C5	-12.45	1.31	1.39
1	AA	899	C	N3-C4	12.45	1.42	1.33
1	AA	646	G	N7-C5	-12.45	1.31	1.39
35	BB	310	A	N3-C4	12.45	1.42	1.34
35	BB	1414	C	C4-N4	12.44	1.45	1.33
1	AA	433	G	C2-N3	12.44	1.42	1.32
1	AA	1014	A	N9-C4	-12.43	1.30	1.37
35	BB	263	G	N9-C8	12.43	1.46	1.37
35	BB	2239	G	N3-C4	-12.43	1.26	1.35
35	BB	2339	C	N3-C4	12.41	1.42	1.33
35	BB	34	U	C4'-C3'	12.41	1.66	1.53
35	BB	2760	C	N1-C6	12.40	1.44	1.37
35	BB	1028	A	N9-C4	-12.38	1.30	1.37
35	BB	481	G	C2-N3	12.35	1.42	1.32
1	AA	310	G	C8-N7	-12.35	1.23	1.30
35	BB	270	A	N7-C5	-12.34	1.31	1.39
1	AA	313	A	C6-N6	12.34	1.43	1.33
1	AA	713	G	N7-C5	-12.33	1.31	1.39
35	BB	818	G	C2-N3	12.32	1.42	1.32
35	BB	2777	G	C2-N3	12.31	1.42	1.32
1	AA	475	C	N1-C6	12.30	1.44	1.37
35	BB	497	A	N3-C4	-12.29	1.27	1.34
35	BB	327	G	N7-C5	12.28	1.46	1.39
1	AA	576	C	N3-C4	12.28	1.42	1.33
35	BB	633	A	C6-N6	12.28	1.43	1.33
35	BB	1896	G	C6-N1	12.28	1.48	1.39
35	BB	2899	A	C6-N6	12.28	1.43	1.33
35	BB	2198	A	N3-C4	-12.27	1.27	1.34
1	AA	1500	A	C6-N6	12.27	1.43	1.33
35	BB	2239	G	C6-N1	12.26	1.48	1.39
35	BB	2532	G	C6-N1	12.24	1.48	1.39
35	BB	864	G	N7-C5	-12.24	1.31	1.39
35	BB	338	G	N7-C5	-12.22	1.31	1.39
35	BB	1639	C	C2-N3	12.22	1.45	1.35
1	AA	1406	U	C2-N3	12.21	1.46	1.37
1	AA	197	A	C6-N1	12.21	1.44	1.35
35	BB	248	G	C6-N1	12.21	1.48	1.39
35	BB	1760	C	N3-C4	12.20	1.42	1.33
35	BB	2062	A	N7-C5	-12.19	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	325	G	C2-N3	12.19	1.42	1.32
1	AA	532	A	N9-C4	12.19	1.45	1.37
1	AA	351	G	C6-N1	12.18	1.48	1.39
1	AA	1361	G	N9-C8	-12.18	1.29	1.37
35	BB	2343	U	C2-N3	12.18	1.46	1.37
35	BB	1003	G	C2-N3	12.18	1.42	1.32
35	BB	2125	G	N9-C8	12.18	1.46	1.37
1	AA	1257	A	C6-N1	12.17	1.44	1.35
35	BB	2176	A	N9-C4	12.17	1.45	1.37
1	AA	377	G	C2-N3	12.17	1.42	1.32
22	AV	39	G	C2-N3	12.17	1.42	1.32
35	BB	2144	G	C2-N2	12.16	1.46	1.34
35	BB	10	A	C6-N1	12.16	1.44	1.35
35	BB	1073	A	N7-C5	-12.15	1.31	1.39
1	AA	682	G	N7-C5	-12.15	1.31	1.39
35	BB	1968	G	C8-N7	-12.14	1.23	1.30
35	BB	267	C	N1-C6	12.14	1.44	1.37
35	BB	2326	C	P-O5'	-12.14	1.47	1.59
35	BB	2612	C	N3-C4	12.13	1.42	1.33
35	BB	2357	G	N9-C8	12.12	1.46	1.37
35	BB	1343	G	N7-C5	-12.11	1.31	1.39
1	AA	568	G	C6-N1	12.11	1.48	1.39
1	AA	913	A	C5-C4	12.10	1.47	1.38
35	BB	1863	G	N1-C2	12.10	1.47	1.37
35	BB	2660	A	C6-N6	12.10	1.43	1.33
1	AA	616	G	C8-N7	-12.09	1.23	1.30
1	AA	1305	G	C2-N3	12.09	1.42	1.32
1	AA	1077	G	C2-N3	12.09	1.42	1.32
24	AZ	24	ALA	C-O	-12.09	1.00	1.23
1	AA	1039	G	C8-N7	-12.08	1.23	1.30
35	BB	998	C	N3-C4	12.08	1.42	1.33
35	BB	2749	A	N7-C5	-12.08	1.31	1.39
35	BB	684	G	N7-C5	-12.08	1.32	1.39
1	AA	510	A	N7-C5	-12.08	1.32	1.39
1	AA	1092	A	N7-C5	-12.08	1.32	1.39
42	BI	141	ASP	C-O	-12.07	1.00	1.23
35	BB	578	G	P-O5'	-12.07	1.47	1.59
1	AA	76	G	N7-C5	-12.06	1.32	1.39
1	AA	1112	C	N1-C6	12.06	1.44	1.37
35	BB	243	U	C2-N3	12.06	1.46	1.37
1	AA	1206	G	C6-N1	12.06	1.48	1.39
35	BB	664	G	C8-N7	-12.06	1.23	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	BI	141	ASP	C-OXT	-12.04	1.00	1.23
1	AA	350	G	C8-N7	-12.04	1.23	1.30
1	AA	1363	A	C8-N7	-12.04	1.23	1.31
34	BA	31	C	N3-C4	12.03	1.42	1.33
35	BB	1589	U	C2-N3	12.03	1.46	1.37
35	BB	2083	G	N7-C5	-12.02	1.32	1.39
35	BB	1839	G	N3-C4	12.02	1.43	1.35
35	BB	2888	C	N3-C4	12.02	1.42	1.33
1	AA	857	C	N1-C6	12.00	1.44	1.37
1	AA	906	A	N7-C5	-11.99	1.32	1.39
35	BB	880	G	C8-N7	-11.99	1.23	1.30
35	BB	1815	A	N7-C5	-11.98	1.32	1.39
1	AA	414	A	N7-C5	-11.97	1.32	1.39
35	BB	1395	A	N7-C5	-11.97	1.32	1.39
35	BB	941	A	C8-N7	-11.96	1.23	1.31
1	AA	738	C	N1-C6	11.96	1.44	1.37
35	BB	2385	C	C4-N4	11.95	1.44	1.33
1	AA	833	G	N7-C5	-11.94	1.32	1.39
35	BB	1221	C	C4-C5	11.94	1.52	1.43
35	BB	1661	G	N1-C2	11.94	1.47	1.37
35	BB	2281	A	C6-N6	11.93	1.43	1.33
35	BB	1336	A	C6-N6	11.93	1.43	1.33
1	AA	941	G	N9-C4	11.92	1.47	1.38
35	BB	282	A	N7-C5	-11.92	1.32	1.39
35	BB	467	G	C2-N3	11.92	1.42	1.32
35	BB	693	A	C6-N1	11.91	1.43	1.35
1	AA	376	G	C8-N7	11.91	1.38	1.30
1	AA	774	G	N1-C2	11.90	1.47	1.37
35	BB	1026	G	C8-N7	-11.90	1.23	1.30
35	BB	1952	A	N9-C4	11.90	1.45	1.37
1	AA	445	G	N1-C2	11.88	1.47	1.37
1	AA	1152	A	C6-N1	11.88	1.43	1.35
35	BB	1110	G	N1-C2	-11.88	1.28	1.37
1	AA	309	A	C6-N6	11.87	1.43	1.33
1	AA	790	A	C6-N1	11.87	1.43	1.35
1	AA	260	G	N7-C5	-11.86	1.32	1.39
35	BB	2632	A	N9-C8	11.87	1.47	1.37
35	BB	583	G	C2-N3	11.86	1.42	1.32
35	BB	2277	G	N1-C2	11.86	1.47	1.37
1	AA	1145	A	C6-N6	11.86	1.43	1.33
35	BB	2682	A	N9-C4	-11.85	1.30	1.37
35	BB	2157	G	N7-C5	-11.85	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1618	A	N3-C4	-11.84	1.27	1.34
1	AA	1170	A	C6-N6	11.84	1.43	1.33
35	BB	1642	G	N7-C5	-11.83	1.32	1.39
35	BB	460	A	C6-N1	11.83	1.43	1.35
35	BB	2802	G	C2-N3	11.81	1.42	1.32
35	BB	1478	G	C5-C4	11.81	1.46	1.38
35	BB	1764	C	O3'-P	-11.81	1.47	1.61
35	BB	1510	G	C2-N3	11.81	1.42	1.32
1	AA	186	C	N1-C6	11.80	1.44	1.37
34	BA	19	C	P-O5'	-11.80	1.48	1.59
35	BB	1381	G	N7-C5	-11.80	1.32	1.39
1	AA	935	A	N7-C5	-11.79	1.32	1.39
35	BB	2127	G	N9-C4	11.79	1.47	1.38
35	BB	180	G	N7-C5	-11.79	1.32	1.39
1	AA	1024	G	N3-C4	-11.79	1.27	1.35
1	AA	245	U	C5'-C4'	11.78	1.65	1.51
35	BB	2083	G	N1-C2	11.78	1.47	1.37
35	BB	2469	A	N7-C5	-11.78	1.32	1.39
35	BB	2216	G	N7-C5	-11.78	1.32	1.39
1	AA	1228	C	N1-C6	-11.77	1.30	1.37
35	BB	2035	G	C2-N3	11.77	1.42	1.32
35	BB	2644	G	C8-N7	-11.76	1.23	1.30
35	BB	972	A	C8-N7	-11.76	1.23	1.31
1	AA	1274	A	C5-C4	11.76	1.47	1.38
35	BB	2570	G	C8-N7	-11.76	1.23	1.30
1	AA	1055	A	N7-C5	-11.76	1.32	1.39
1	AA	223	A	N9-C4	-11.75	1.30	1.37
1	AA	885	G	N1-C2	11.74	1.47	1.37
34	BA	11	C	N1-C6	11.74	1.44	1.37
35	BB	2326	C	N1-C6	11.74	1.44	1.37
35	BB	1531	C	N3-C4	11.74	1.42	1.33
35	BB	1245	G	N3-C4	-11.73	1.27	1.35
35	BB	35	G	N7-C5	-11.73	1.32	1.39
34	BA	10	G	N7-C5	-11.73	1.32	1.39
34	BA	13	G	C8-N7	-11.73	1.24	1.30
35	BB	894	U	C2-N3	11.72	1.46	1.37
1	AA	50	A	N7-C5	-11.70	1.32	1.39
1	AA	428	G	C5-C4	11.70	1.46	1.38
35	BB	2767	C	N1-C6	11.70	1.44	1.37
35	BB	1062	G	N7-C5	-11.70	1.32	1.39
1	AA	1088	G	N3-C4	-11.70	1.27	1.35
34	BA	116	G	N1-C2	11.70	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	73	A	N3-C4	11.69	1.41	1.34
35	BB	1310	G	N3-C4	-11.69	1.27	1.35
1	AA	667	G	N1-C2	11.68	1.47	1.37
1	AA	404	G	N1-C2	11.67	1.47	1.37
35	BB	2231	U	C2-N3	11.66	1.46	1.37
1	AA	698	G	N7-C5	-11.65	1.32	1.39
35	BB	2635	A	N3-C4	-11.64	1.27	1.34
35	BB	2673	G	C6-N1	11.64	1.47	1.39
35	BB	1524	G	C2-N3	11.63	1.42	1.32
35	BB	2151	U	P-O5'	-11.63	1.48	1.59
1	AA	491	G	N7-C5	11.63	1.46	1.39
1	AA	1293	C	N1-C6	-11.62	1.30	1.37
35	BB	1509	A	C8-N7	-11.62	1.23	1.31
34	BA	85	G	C2-N3	11.62	1.42	1.32
35	BB	2033	A	N7-C5	-11.62	1.32	1.39
35	BB	461	C	N3-C4	11.61	1.42	1.33
1	AA	415	A	C6-N1	11.61	1.43	1.35
35	BB	1794	A	C6-N6	11.61	1.43	1.33
1	AA	1161	C	C2-N3	11.61	1.45	1.35
35	BB	1756	G	C6-N1	11.60	1.47	1.39
35	BB	670	A	N9-C4	11.60	1.44	1.37
35	BB	75	G	C6-N1	11.59	1.47	1.39
35	BB	2679	A	C6-N6	11.59	1.43	1.33
1	AA	263	A	N3-C4	-11.59	1.27	1.34
35	BB	287	G	C6-N1	11.59	1.47	1.39
35	BB	1350	C	C4'-C3'	11.58	1.65	1.53
1	AA	929	G	C5-C4	11.57	1.46	1.38
35	BB	2037	A	N3-C4	-11.57	1.27	1.34
35	BB	221	A	C8-N7	-11.55	1.23	1.31
35	BB	1223	G	N7-C5	-11.55	1.32	1.39
1	AA	266	G	N3-C4	-11.55	1.27	1.35
1	AA	1177	G	C6-N1	11.54	1.47	1.39
35	BB	39	G	N1-C2	11.54	1.47	1.37
35	BB	617	G	N7-C5	-11.54	1.32	1.39
35	BB	1226	A	N7-C5	-11.53	1.32	1.39
1	AA	773	G	C2-N3	11.52	1.42	1.32
35	BB	2045	C	P-O5'	-11.52	1.48	1.59
35	BB	2178	C	N3-C4	11.51	1.42	1.33
35	BB	1000	A	C6-N6	11.51	1.43	1.33
1	AA	1022	A	C6-N1	11.49	1.43	1.35
35	BB	2041	U	C2-N3	11.49	1.45	1.37
1	AA	1084	G	C8-N7	-11.48	1.24	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1319	A	C6-N1	11.47	1.43	1.35
35	BB	2082	A	N7-C5	-11.47	1.32	1.39
35	BB	833	A	C6-N1	11.46	1.43	1.35
35	BB	1045	C	N3-C4	11.46	1.42	1.33
35	BB	1197	G	C6-N1	11.46	1.47	1.39
35	BB	2112	G	C2-N3	11.46	1.42	1.32
35	BB	537	G	N7-C5	-11.46	1.32	1.39
35	BB	2389	G	N9-C8	11.46	1.45	1.37
35	BB	2534	A	N9-C4	-11.46	1.30	1.37
1	AA	1037	C	C4-N4	11.46	1.44	1.33
35	BB	2093	G	C2-N3	11.45	1.42	1.32
35	BB	2808	G	C2-N3	11.45	1.42	1.32
1	AA	197	A	C5-C4	11.44	1.46	1.38
35	BB	2130	U	C2-N3	11.44	1.45	1.37
35	BB	1160	G	N7-C5	-11.43	1.32	1.39
22	AV	39	G	N1-C2	11.42	1.46	1.37
35	BB	473	G	C6-N1	11.42	1.47	1.39
35	BB	1702	G	N3-C4	-11.42	1.27	1.35
35	BB	870	U	C2-N3	11.41	1.45	1.37
35	BB	612	G	N7-C5	-11.40	1.32	1.39
35	BB	1968	G	N7-C5	-11.40	1.32	1.39
35	BB	950	G	N7-C5	-11.40	1.32	1.39
35	BB	1459	G	N7-C5	11.40	1.46	1.39
35	BB	380	G	N7-C5	-11.39	1.32	1.39
35	BB	820	A	N7-C5	-11.39	1.32	1.39
35	BB	1691	C	N1-C6	-11.38	1.30	1.37
1	AA	71	A	N7-C5	-11.38	1.32	1.39
34	BA	61	G	C5-C4	11.38	1.46	1.38
35	BB	423	A	N7-C5	-11.38	1.32	1.39
35	BB	962	G	C2'-C1'	-11.38	1.40	1.53
35	BB	1875	G	N9-C8	-11.37	1.29	1.37
35	BB	718	A	N9-C8	11.37	1.46	1.37
35	BB	2365	G	N3-C4	-11.37	1.27	1.35
1	AA	1297	G	C8-N7	11.37	1.37	1.30
35	BB	1162	G	C6-N1	11.36	1.47	1.39
35	BB	1805	A	C6-N6	11.36	1.43	1.33
1	AA	430	A	N3-C4	-11.36	1.28	1.34
1	AA	1197	A	C8-N7	-11.36	1.23	1.31
35	BB	2663	G	N7-C5	-11.35	1.32	1.39
1	AA	1089	G	N1-C2	11.35	1.46	1.37
1	AA	156	C	N1-C6	11.34	1.44	1.37
35	BB	252	G	C2-N3	11.34	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	721	A	C6-N6	11.34	1.43	1.33
1	AA	1212	U	C2-N3	11.33	1.45	1.37
1	AA	731	G	N1-C2	11.33	1.46	1.37
1	AA	689	C	P-O5'	-11.32	1.48	1.59
35	BB	2574	G	N7-C5	-11.32	1.32	1.39
35	BB	453	A	N7-C5	-11.32	1.32	1.39
35	BB	1689	A	P-O5'	-11.32	1.48	1.59
35	BB	2746	U	C2-N3	11.32	1.45	1.37
1	AA	432	A	N7-C5	-11.31	1.32	1.39
35	BB	2809	A	N7-C5	-11.31	1.32	1.39
35	BB	2409	G	C8-N7	-11.29	1.24	1.30
35	BB	1397	U	C2-N3	11.29	1.45	1.37
35	BB	1517	G	N7-C5	-11.29	1.32	1.39
35	BB	1594	U	N1-C6	11.29	1.48	1.38
35	BB	1710	G	C2-N3	11.29	1.41	1.32
35	BB	1908	C	N3-C4	11.29	1.41	1.33
1	AA	621	A	N9-C4	11.28	1.44	1.37
35	BB	2781	A	N7-C5	-11.28	1.32	1.39
35	BB	2455	G	N1-C2	11.28	1.46	1.37
1	AA	130	A	C6-N1	11.27	1.43	1.35
1	AA	360	G	N7-C5	-11.27	1.32	1.39
35	BB	27	G	C2-N3	11.27	1.41	1.32
1	AA	1337	G	N9-C8	-11.26	1.29	1.37
35	BB	582	A	N3-C4	11.25	1.41	1.34
35	BB	829	A	C6-N6	11.25	1.43	1.33
1	AA	1226	C	C4-N4	11.25	1.44	1.33
35	BB	2361	G	C2-N3	11.24	1.41	1.32
35	BB	205	G	C4'-C3'	11.24	1.65	1.53
35	BB	775	G	C8-N7	11.24	1.37	1.30
35	BB	2416	C	C2-N3	11.24	1.44	1.35
35	BB	1022	G	N1-C2	11.24	1.46	1.37
1	AA	785	G	C6-N1	11.23	1.47	1.39
1	AA	1279	G	C6-N1	11.22	1.47	1.39
35	BB	1236	G	N3-C4	-11.22	1.27	1.35
35	BB	375	G	N1-C2	11.21	1.46	1.37
35	BB	1266	G	N1-C2	11.21	1.46	1.37
34	BA	52	A	C6-N1	11.21	1.43	1.35
35	BB	2742	G	N9-C8	-11.21	1.30	1.37
35	BB	2515	C	N3-C4	11.21	1.41	1.33
1	AA	799	G	C6-N1	11.20	1.47	1.39
1	AA	844	G	N7-C5	-11.20	1.32	1.39
35	BB	625	G	C2-N3	11.20	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1497	G	N7-C5	-11.20	1.32	1.39
1	AA	885	G	C2'-C1'	-11.20	1.41	1.53
35	BB	1705	A	C6-N6	11.20	1.43	1.33
35	BB	1000	A	N7-C5	-11.19	1.32	1.39
1	AA	347	G	N1-C2	11.19	1.46	1.37
35	BB	2005	A	N7-C5	-11.19	1.32	1.39
35	BB	181	A	N7-C5	-11.19	1.32	1.39
1	AA	33	A	N9-C4	11.18	1.44	1.37
1	AA	817	C	C2'-C1'	-11.18	1.41	1.53
35	BB	1811	G	C6-N1	11.17	1.47	1.39
1	AA	1200	C	C2'-C1'	-11.17	1.41	1.53
35	BB	1824	G	N7-C5	-11.17	1.32	1.39
1	AA	1389	C	C4-N4	11.17	1.44	1.33
1	AA	459	A	C6-N6	11.16	1.42	1.33
35	BB	2544	G	N7-C5	-11.16	1.32	1.39
35	BB	295	G	C6-N1	11.15	1.47	1.39
1	AA	435	A	C6-N6	11.15	1.42	1.33
35	BB	1492	G	N1-C2	11.15	1.46	1.37
1	AA	1132	C	N3-C4	11.14	1.41	1.33
35	BB	2214	C	N3-C4	11.14	1.41	1.33
1	AA	1190	G	C2-N3	11.13	1.41	1.32
35	BB	873	C	N1-C6	11.13	1.43	1.37
1	AA	518	C	N1-C6	11.13	1.43	1.37
1	AA	629	A	N3-C4	-11.13	1.28	1.34
35	BB	1128	G	N7-C5	-11.13	1.32	1.39
35	BB	2849	U	C2-N3	11.13	1.45	1.37
35	BB	2208	C	C2'-C1'	-11.13	1.41	1.53
35	BB	2429	G	N3-C4	11.12	1.43	1.35
35	BB	859	G	N9-C8	-11.12	1.30	1.37
35	BB	899	A	C6-N6	11.12	1.42	1.33
35	BB	394	C	N3-C4	11.11	1.41	1.33
1	AA	351	G	P-O5'	-11.11	1.48	1.59
1	AA	692	U	P-O5'	-11.11	1.48	1.59
35	BB	177	G	C6-N1	11.11	1.47	1.39
35	BB	2844	G	N7-C5	-11.10	1.32	1.39
34	BA	47	C	N1-C6	11.10	1.43	1.37
1	AA	514	C	N3-C4	11.10	1.41	1.33
35	BB	1419	A	N3-C4	-11.10	1.28	1.34
35	BB	70	G	N9-C8	-11.09	1.30	1.37
35	BB	1296	G	C5-C4	11.09	1.46	1.38
35	BB	1503	A	N9-C4	11.09	1.44	1.37
1	AA	1255	G	C2-N3	11.08	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	430	A	N7-C5	-11.08	1.32	1.39
35	BB	1277	G	C2-N3	11.08	1.41	1.32
1	AA	200	G	N9-C8	11.08	1.45	1.37
1	AA	1214	C	N1-C6	11.08	1.43	1.37
35	BB	172	A	C6-N1	11.08	1.43	1.35
35	BB	1038	G	C2-N3	11.07	1.41	1.32
35	BB	1566	A	N7-C5	-11.07	1.32	1.39
35	BB	2872	A	N7-C5	-11.07	1.32	1.39
1	AA	1435	G	N7-C5	-11.07	1.32	1.39
1	AA	768	A	N7-C5	-11.06	1.32	1.39
1	AA	68	G	C8-N7	-11.06	1.24	1.30
35	BB	1101	U	N3-C4	11.05	1.48	1.38
1	AA	982	U	O3'-P	-11.05	1.47	1.61
35	BB	2830	C	N1-C6	11.05	1.43	1.37
1	AA	1042	A	N7-C5	-11.04	1.32	1.39
35	BB	1295	C	N1-C6	11.04	1.43	1.37
35	BB	1897	G	N3-C4	-11.04	1.27	1.35
35	BB	491	G	N7-C5	-11.04	1.32	1.39
35	BB	902	C	N1-C6	11.03	1.43	1.37
35	BB	121	G	C2-N3	11.03	1.41	1.32
35	BB	419	U	C2-N3	11.03	1.45	1.37
1	AA	867	G	C6-N1	11.03	1.47	1.39
1	AA	923	A	N7-C5	-11.03	1.32	1.39
35	BB	572	A	C8-N7	-11.02	1.23	1.31
34	BA	66	A	N7-C5	-11.02	1.32	1.39
1	AA	353	A	C8-N7	-11.02	1.23	1.31
35	BB	1317	G	C2-N3	11.01	1.41	1.32
1	AA	1228	C	C4-N4	11.01	1.43	1.33
1	AA	1486	G	C2-N3	11.01	1.41	1.32
35	BB	1710	G	C8-N7	-10.99	1.24	1.30
35	BB	156	A	C4'-O4'	10.99	1.59	1.45
35	BB	715	A	N7-C5	-10.99	1.32	1.39
34	BA	75	G	C2-N3	10.99	1.41	1.32
35	BB	1127	A	N9-C4	-10.99	1.31	1.37
35	BB	2872	A	C5-C4	10.99	1.46	1.38
1	AA	1291	U	C2-N3	10.99	1.45	1.37
34	BA	81	G	N7-C5	-10.99	1.32	1.39
35	BB	177	G	C5-C4	10.99	1.46	1.38
35	BB	2470	G	N7-C5	-10.99	1.32	1.39
1	AA	29	U	C2-N3	10.98	1.45	1.37
35	BB	954	G	C5-C4	10.97	1.46	1.38
1	AA	582	C	C4-N4	10.97	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1527	G	C2-N3	10.97	1.41	1.32
35	BB	2566	A	N7-C5	-10.96	1.32	1.39
35	BB	443	A	N3-C4	-10.96	1.28	1.34
35	BB	2389	G	N7-C5	-10.95	1.32	1.39
35	BB	788	A	C6-N6	10.95	1.42	1.33
1	AA	330	C	N1-C6	-10.95	1.30	1.37
35	BB	1988	G	C6-N1	10.95	1.47	1.39
35	BB	1543	G	C8-N7	10.94	1.37	1.30
1	AA	1360	A	N9-C4	-10.94	1.31	1.37
35	BB	95	A	N7-C5	-10.94	1.32	1.39
35	BB	2638	G	N7-C5	-10.94	1.32	1.39
34	BA	64	G	N7-C5	-10.94	1.32	1.39
35	BB	668	A	C6-N6	10.93	1.42	1.33
35	BB	1466	U	P-O5'	-10.93	1.48	1.59
35	BB	1317	G	N7-C5	-10.93	1.32	1.39
1	AA	967	C	N1-C6	-10.93	1.30	1.37
1	AA	821	G	C6-N1	10.93	1.47	1.39
1	AA	1108	G	C8-N7	-10.92	1.24	1.30
1	AA	567	G	N9-C4	-10.92	1.29	1.38
35	BB	560	C	N1-C6	10.92	1.43	1.37
35	BB	1221	C	C4-N4	10.92	1.43	1.33
35	BB	1895	C	C2-N3	10.92	1.44	1.35
1	AA	1446	A	N7-C5	-10.91	1.32	1.39
1	AA	725	G	C6-N1	10.91	1.47	1.39
1	AA	944	G	O3'-P	-10.90	1.48	1.61
35	BB	1462	C	N1-C6	-10.90	1.30	1.37
35	BB	1212	G	C6-N1	10.90	1.47	1.39
1	AA	551	U	C2-N3	10.90	1.45	1.37
35	BB	422	A	C6-N6	10.90	1.42	1.33
35	BB	223	A	C6-N6	10.89	1.42	1.33
35	BB	2241	A	N9-C8	-10.89	1.29	1.37
35	BB	382	A	N7-C5	-10.88	1.32	1.39
35	BB	1089	A	N9-C4	-10.88	1.31	1.37
35	BB	1283	G	C5-C4	10.88	1.46	1.38
35	BB	1802	A	N7-C5	-10.88	1.32	1.39
1	AA	1197	A	C6-N6	10.87	1.42	1.33
35	BB	382	A	N3-C4	-10.87	1.28	1.34
35	BB	1884	G	C5-C4	-10.86	1.30	1.38
1	AA	939	G	N7-C5	-10.86	1.32	1.39
35	BB	2642	G	N3-C4	-10.86	1.27	1.35
35	BB	2488	G	C2-N3	10.85	1.41	1.32
35	BB	2766	A	N7-C5	-10.85	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	652	U	C2-N3	10.84	1.45	1.37
35	BB	1663	G	O3'-P	-10.84	1.48	1.61
35	BB	1296	G	N7-C5	-10.84	1.32	1.39
35	BB	348	A	N3-C4	-10.84	1.28	1.34
35	BB	2327	A	N7-C5	-10.83	1.32	1.39
35	BB	2446	G	N9-C4	10.83	1.46	1.38
1	AA	422	C	C2-N3	10.83	1.44	1.35
35	BB	1264	A	C6-N6	10.83	1.42	1.33
35	BB	2030	A	C6-N1	10.83	1.43	1.35
1	AA	717	U	C2-N3	10.83	1.45	1.37
35	BB	939	G	N1-C2	10.83	1.46	1.37
35	BB	1057	A	N7-C5	-10.83	1.32	1.39
1	AA	444	G	C6-N1	10.82	1.47	1.39
35	BB	2168	G	N9-C4	-10.82	1.29	1.38
1	AA	673	A	N7-C5	-10.82	1.32	1.39
35	BB	1129	A	P-O5'	-10.82	1.49	1.59
1	AA	1079	G	P-O5'	-10.81	1.49	1.59
35	BB	23	G	P-O5'	-10.81	1.49	1.59
1	AA	755	G	N7-C5	-10.81	1.32	1.39
35	BB	375	G	C8-N7	-10.81	1.24	1.30
35	BB	1501	G	C2-N3	10.81	1.41	1.32
35	BB	1772	A	N3-C4	-10.81	1.28	1.34
35	BB	953	G	C6-N1	10.80	1.47	1.39
35	BB	62	U	C2-N3	10.80	1.45	1.37
1	AA	637	C	N3-C4	10.80	1.41	1.33
1	AA	458	U	C2-N3	10.79	1.45	1.37
35	BB	1127	A	N7-C5	-10.80	1.32	1.39
35	BB	1823	G	C2-N2	10.80	1.45	1.34
35	BB	2835	A	N9-C4	10.79	1.44	1.37
1	AA	1097	C	C4-C5	10.79	1.51	1.43
34	BA	27	C	P-O5'	-10.79	1.49	1.59
35	BB	1440	U	C2-N3	10.79	1.45	1.37
1	AA	700	G	C6-N1	10.79	1.47	1.39
1	AA	1251	A	C6-N1	10.78	1.43	1.35
35	BB	216	A	C5-C4	10.78	1.46	1.38
35	BB	697	G	N3-C4	-10.78	1.27	1.35
35	BB	1198	U	C2-N3	10.78	1.45	1.37
35	BB	1786	A	O3'-P	-10.78	1.48	1.61
35	BB	1799	G	P-O5'	-10.78	1.49	1.59
35	BB	1828	G	C8-N7	-10.78	1.24	1.30
1	AA	729	A	N7-C5	-10.77	1.32	1.39
35	BB	2119	A	C5'-C4'	10.77	1.64	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	769	G	C2-N3	10.76	1.41	1.32
35	BB	2748	A	N9-C4	-10.76	1.31	1.37
35	BB	1912	A	C6-N1	10.76	1.43	1.35
35	BB	2903	U	C2-N3	10.76	1.45	1.37
1	AA	821	G	N7-C5	-10.75	1.32	1.39
35	BB	1907	G	N7-C5	-10.75	1.32	1.39
35	BB	2719	G	N7-C5	-10.75	1.32	1.39
35	BB	1989	G	O3'-P	-10.74	1.48	1.61
35	BB	858	G	N7-C5	-10.74	1.32	1.39
35	BB	131	A	N7-C5	-10.74	1.32	1.39
35	BB	1011	G	C6-N1	10.73	1.47	1.39
35	BB	2706	A	C6-N6	10.73	1.42	1.33
1	AA	1036	A	N9-C4	-10.73	1.31	1.37
35	BB	2172	U	N3-C4	10.73	1.48	1.38
1	AA	462	G	C6-N1	10.72	1.47	1.39
34	BA	102	G	C2-N3	10.72	1.41	1.32
35	BB	2741	A	C6-N1	10.72	1.43	1.35
35	BB	2380	C	C4-N4	10.72	1.43	1.33
35	BB	282	A	C6-N6	10.72	1.42	1.33
1	AA	1120	C	C2-N3	10.71	1.44	1.35
35	BB	1653	G	P-O5'	-10.71	1.49	1.59
35	BB	559	G	C2-N3	10.71	1.41	1.32
35	BB	2811	G	N9-C8	-10.71	1.30	1.37
1	AA	345	C	N1-C6	-10.69	1.30	1.37
1	AA	1417	G	N7-C5	-10.69	1.32	1.39
35	BB	2216	G	C6-N1	10.69	1.47	1.39
1	AA	1274	A	N9-C4	-10.68	1.31	1.37
1	AA	1312	G	N1-C2	10.68	1.46	1.37
1	AA	491	G	C6-N1	10.67	1.47	1.39
35	BB	597	G	C8-N7	10.67	1.37	1.30
35	BB	1126	A	N9-C4	10.67	1.44	1.37
35	BB	1336	A	N7-C5	-10.67	1.32	1.39
35	BB	2218	G	N1-C2	10.67	1.46	1.37
35	BB	768	G	N7-C5	-10.67	1.32	1.39
35	BB	1408	G	C2-N3	10.67	1.41	1.32
35	BB	2455	G	C2-N3	10.67	1.41	1.32
1	AA	1005	A	C2'-C1'	-10.67	1.41	1.53
35	BB	1191	G	N7-C5	-10.67	1.32	1.39
1	AA	1245	C	C2-N3	10.67	1.44	1.35
35	BB	2623	G	N9-C8	-10.66	1.30	1.37
1	AA	341	C	C4-N4	10.66	1.43	1.33
1	AA	691	G	N9-C8	-10.66	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	468	A	C6-N6	10.66	1.42	1.33
1	AA	605	U	C2-N3	10.66	1.45	1.37
35	BB	749	A	N7-C5	-10.65	1.32	1.39
35	BB	294	A	N7-C5	-10.65	1.32	1.39
35	BB	1885	A	C8-N7	-10.65	1.24	1.31
1	AA	463	U	C2-N3	10.64	1.45	1.37
1	AA	869	G	C6-N1	10.64	1.47	1.39
35	BB	912	C	N3-C4	10.64	1.41	1.33
1	AA	120	A	N7-C5	-10.64	1.32	1.39
1	AA	574	A	O3'-P	-10.64	1.48	1.61
22	AV	5	A	C6-N6	10.63	1.42	1.33
35	BB	1867	G	C2'-C1'	-10.63	1.41	1.53
35	BB	2873	A	P-O5'	-10.63	1.49	1.59
35	BB	2881	U	C2-N3	10.63	1.45	1.37
35	BB	611	C	N3-C4	10.63	1.41	1.33
35	BB	189	G	N3-C4	-10.63	1.28	1.35
35	BB	899	A	N3-C4	10.63	1.41	1.34
35	BB	2759	G	N1-C2	10.63	1.46	1.37
35	BB	1167	C	N3-C4	10.62	1.41	1.33
35	BB	2733	A	C2'-C1'	-10.62	1.41	1.53
35	BB	2665	A	N7-C5	-10.62	1.32	1.39
35	BB	2825	G	C6-N1	10.62	1.47	1.39
35	BB	2193	G	N9-C8	-10.61	1.30	1.37
35	BB	2720	U	C2-N3	10.61	1.45	1.37
1	AA	420	U	C2-N3	10.61	1.45	1.37
1	AA	907	A	C6-N6	10.61	1.42	1.33
35	BB	254	G	C8-N7	-10.61	1.24	1.30
35	BB	2109	U	C2-N3	10.61	1.45	1.37
35	BB	1988	G	N7-C5	-10.60	1.32	1.39
1	AA	1018	G	N3-C4	-10.60	1.28	1.35
35	BB	1803	A	N9-C4	-10.60	1.31	1.37
1	AA	833	G	C2'-C1'	-10.59	1.41	1.53
35	BB	1432	G	N7-C5	-10.59	1.32	1.39
35	BB	72	U	C2-N3	10.59	1.45	1.37
35	BB	1519	G	N9-C8	-10.59	1.30	1.37
35	BB	317	G	N3-C4	-10.59	1.28	1.35
1	AA	1285	A	C6-N6	10.59	1.42	1.33
1	AA	941	G	N7-C5	-10.59	1.32	1.39
35	BB	2353	G	N7-C5	-10.59	1.32	1.39
35	BB	2430	A	C6-N6	10.59	1.42	1.33
35	BB	2546	U	C2-N3	10.59	1.45	1.37
35	BB	1380	G	C8-N7	10.58	1.37	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	922	G	N9-C8	10.58	1.45	1.37
1	AA	1216	A	C4'-C3'	-10.58	1.41	1.53
35	BB	1136	G	C2-N3	10.58	1.41	1.32
35	BB	1876	A	P-O5'	-10.58	1.49	1.59
35	BB	1966	A	N7-C5	-10.58	1.32	1.39
35	BB	2838	G	N7-C5	-10.58	1.32	1.39
1	AA	953	G	P-O5'	-10.57	1.49	1.59
1	AA	467	U	N3-C4	10.56	1.48	1.38
35	BB	1769	U	C5'-C4'	10.56	1.64	1.51
35	BB	2665	A	C6-N6	10.56	1.42	1.33
35	BB	2799	A	N9-C4	10.56	1.44	1.37
35	BB	2820	A	N3-C4	10.56	1.41	1.34
35	BB	1361	G	C2-N3	10.56	1.41	1.32
1	AA	1353	G	C2-N3	10.56	1.41	1.32
22	AV	67	G	N9-C4	10.55	1.46	1.38
35	BB	195	A	N9-C4	-10.55	1.31	1.37
1	AA	455	G	N7-C5	-10.55	1.32	1.39
1	AA	557	G	C2-N3	10.55	1.41	1.32
35	BB	2198	A	C8-N7	-10.55	1.24	1.31
1	AA	854	U	C2-N3	10.55	1.45	1.37
35	BB	505	A	N9-C4	-10.54	1.31	1.37
35	BB	2311	A	C8-N7	-10.54	1.24	1.31
35	BB	1535	A	P-O5'	-10.54	1.49	1.59
1	AA	276	G	N7-C5	-10.54	1.32	1.39
35	BB	141	G	C2-N2	10.54	1.45	1.34
35	BB	1521	G	N7-C5	-10.54	1.32	1.39
1	AA	1272	G	N1-C2	10.54	1.46	1.37
35	BB	259	G	N7-C5	-10.53	1.32	1.39
1	AA	309	A	N3-C4	-10.53	1.28	1.34
1	AA	276	G	P-O5'	-10.53	1.49	1.59
1	AA	1275	A	N7-C5	-10.52	1.32	1.39
35	BB	1380	G	N7-C5	-10.52	1.32	1.39
1	AA	816	A	C5-C4	10.52	1.46	1.38
35	BB	1382	G	N1-C2	10.52	1.46	1.37
35	BB	1792	G	N3-C4	-10.52	1.28	1.35
35	BB	883	G	N7-C5	-10.51	1.32	1.39
1	AA	978	A	C5-C4	10.51	1.46	1.38
35	BB	912	C	O3'-P	-10.51	1.48	1.61
1	AA	937	A	C6-N1	10.50	1.43	1.35
1	AA	1138	G	N3-C4	10.50	1.42	1.35
35	BB	1551	A	O3'-P	-10.50	1.48	1.61
34	BA	12	C	O3'-P	-10.49	1.48	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1026	G	C2-N3	10.49	1.41	1.32
35	BB	1686	C	N1-C6	-10.49	1.30	1.37
1	AA	74	A	C6-N6	10.48	1.42	1.33
1	AA	705	G	C4'-C3'	10.48	1.64	1.53
35	BB	2770	G	N1-C2	10.48	1.46	1.37
35	BB	2332	C	N3-C4	10.48	1.41	1.33
1	AA	1109	C	N1-C6	10.47	1.43	1.37
35	BB	827	U	C2-N3	10.47	1.45	1.37
1	AA	1146	A	C5-C4	-10.47	1.31	1.38
35	BB	908	C	P-O5'	-10.47	1.49	1.59
35	BB	1401	G	N1-C2	10.47	1.46	1.37
1	AA	1349	A	N7-C5	-10.47	1.32	1.39
1	AA	1319	A	C6-N6	10.46	1.42	1.33
35	BB	95	A	N3-C4	10.46	1.41	1.34
35	BB	2068	U	C4-C5	10.46	1.52	1.43
1	AA	210	C	C4-N4	10.45	1.43	1.33
1	AA	724	G	C2-N3	10.45	1.41	1.32
1	AA	1418	A	N3-C4	-10.45	1.28	1.34
35	BB	1679	A	C8-N7	-10.45	1.24	1.31
35	BB	2037	A	C6-N1	10.45	1.42	1.35
35	BB	1903	G	C5-C4	-10.45	1.31	1.38
1	AA	802	A	C5-C4	-10.44	1.31	1.38
35	BB	2542	A	N7-C5	-10.44	1.32	1.39
35	BB	2842	G	N7-C5	10.44	1.45	1.39
35	BB	2581	G	N1-C2	10.44	1.46	1.37
35	BB	401	A	N7-C5	-10.43	1.32	1.39
35	BB	1631	G	N1-C2	10.43	1.46	1.37
35	BB	1850	G	C8-N7	10.43	1.37	1.30
35	BB	491	G	C2-N3	10.43	1.41	1.32
34	BA	118	C	N1-C6	10.42	1.43	1.37
35	BB	2028	U	C3'-C2'	-10.42	1.41	1.52
1	AA	876	C	N3-C4	10.42	1.41	1.33
35	BB	1204	A	N7-C5	-10.42	1.32	1.39
35	BB	1901	A	C6-N1	10.42	1.42	1.35
35	BB	2710	C	N1-C6	-10.42	1.30	1.37
1	AA	1007	U	N3-C4	10.42	1.47	1.38
1	AA	1110	A	N3-C4	-10.42	1.28	1.34
35	BB	748	G	C2-N3	10.41	1.41	1.32
34	BA	28	C	N1-C6	10.41	1.43	1.37
35	BB	927	A	N3-C4	-10.41	1.28	1.34
35	BB	1246	A	C6-N6	10.41	1.42	1.33
1	AA	1267	C	N3-C4	10.40	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	397	A	N3-C4	-10.40	1.28	1.34
35	BB	1373	A	C8-N7	-10.40	1.24	1.31
35	BB	1803	A	N7-C5	-10.40	1.33	1.39
35	BB	982	C	C2-N3	10.39	1.44	1.35
1	AA	1055	A	C8-N7	-10.39	1.24	1.31
1	AA	1429	A	N7-C5	-10.39	1.33	1.39
1	AA	335	C	O3'-P	-10.38	1.48	1.61
35	BB	1868	C	O3'-P	-10.38	1.48	1.61
1	AA	31	G	N7-C5	-10.38	1.33	1.39
35	BB	1464	G	C2-N3	10.38	1.41	1.32
1	AA	569	C	C2'-C1'	-10.38	1.42	1.53
35	BB	1532	A	C5-C4	10.38	1.46	1.38
35	BB	104	A	N3-C4	-10.38	1.28	1.34
35	BB	141	G	C8-N7	10.38	1.37	1.30
35	BB	2396	G	C2-N3	10.38	1.41	1.32
35	BB	1694	C	N3-C4	10.38	1.41	1.33
35	BB	799	G	N7-C5	-10.37	1.33	1.39
35	BB	1702	G	C2-N3	10.38	1.41	1.32
35	BB	1215	G	C5'-C4'	10.37	1.63	1.51
35	BB	600	G	C6-N1	-10.37	1.32	1.39
35	BB	51	G	C5-C6	-10.36	1.31	1.42
1	AA	1171	A	C5-C4	10.36	1.46	1.38
35	BB	2445	G	N1-C2	10.36	1.46	1.37
35	BB	1763	G	N7-C5	-10.36	1.33	1.39
35	BB	75	G	N7-C5	-10.36	1.33	1.39
35	BB	2061	G	C2-N3	10.36	1.41	1.32
1	AA	849	G	C8-N7	10.35	1.37	1.30
34	BA	17	C	C4-N4	10.35	1.43	1.33
35	BB	1110	G	N7-C5	-10.34	1.33	1.39
35	BB	2432	A	N9-C4	10.34	1.44	1.37
35	BB	1024	G	P-O5'	10.33	1.70	1.59
35	BB	836	G	C6-N1	10.33	1.46	1.39
35	BB	2152	G	C6-N1	10.33	1.46	1.39
35	BB	2322	A	C6-N6	10.32	1.42	1.33
1	AA	138	G	C2-N3	10.31	1.41	1.32
35	BB	106	C	C4-C5	10.31	1.51	1.43
1	AA	119	A	C6-N1	10.31	1.42	1.35
35	BB	2409	G	C2-N3	10.31	1.41	1.32
1	AA	1279	G	N7-C5	-10.30	1.33	1.39
35	BB	877	A	N7-C5	-10.30	1.33	1.39
35	BB	1653	G	N7-C5	-10.30	1.33	1.39
35	BB	2869	G	N7-C5	-10.30	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1437	A	C6-N6	10.29	1.42	1.33
34	BA	58	A	C2'-C1'	-10.29	1.42	1.53
35	BB	41	C	C2-N3	10.29	1.44	1.35
35	BB	2019	A	C5-C4	10.29	1.46	1.38
35	BB	1803	A	C6-N6	10.29	1.42	1.33
35	BB	2027	G	C6-N1	10.29	1.46	1.39
35	BB	2218	G	N9-C8	10.29	1.45	1.37
1	AA	855	U	P-O5'	-10.29	1.49	1.59
35	BB	1362	C	P-O5'	-10.29	1.49	1.59
1	AA	111	G	N7-C5	-10.28	1.33	1.39
1	AA	1398	A	C6-N1	10.28	1.42	1.35
1	AA	416	G	N7-C5	-10.28	1.33	1.39
1	AA	148	G	C6-N1	-10.28	1.32	1.39
1	AA	650	G	C2-N3	10.28	1.41	1.32
1	AA	378	G	C2-N3	10.28	1.41	1.32
35	BB	538	A	N7-C5	-10.28	1.33	1.39
1	AA	1026	G	C4'-C3'	-10.27	1.41	1.53
34	BA	54	G	N9-C8	10.27	1.45	1.37
35	BB	2366	A	N7-C5	-10.27	1.33	1.39
35	BB	966	G	C2-N3	10.27	1.41	1.32
35	BB	2340	A	N7-C5	-10.26	1.33	1.39
35	BB	2	G	C2-N3	10.26	1.41	1.32
35	BB	2060	A	N9-C4	-10.26	1.31	1.37
35	BB	761	A	C8-N7	-10.25	1.24	1.31
1	AA	65	A	C6-N1	10.25	1.42	1.35
1	AA	1206	G	C2-N3	10.25	1.41	1.32
1	AA	96	U	O3'-P	-10.25	1.48	1.61
35	BB	198	C	O3'-P	-10.25	1.48	1.61
35	BB	4	U	N3-C4	10.25	1.47	1.38
35	BB	300	A	N7-C5	-10.24	1.33	1.39
35	BB	344	A	N7-C5	-10.24	1.33	1.39
35	BB	462	C	N3-C4	10.24	1.41	1.33
35	BB	186	G	N7-C5	-10.23	1.33	1.39
35	BB	1334	G	N9-C8	-10.23	1.30	1.37
35	BB	2371	G	C8-N7	10.23	1.37	1.30
35	BB	2867	G	C2-N2	10.23	1.44	1.34
35	BB	837	C	N3-C4	10.22	1.41	1.33
35	BB	577	G	N7-C5	-10.22	1.33	1.39
35	BB	1970	A	N3-C4	-10.22	1.28	1.34
34	BA	117	G	N7-C5	-10.21	1.33	1.39
35	BB	2397	G	N1-C2	10.21	1.46	1.37
1	AA	1418	A	N9-C4	-10.20	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	49	A	N9-C4	10.21	1.44	1.37
35	BB	716	A	C6-N6	10.20	1.42	1.33
35	BB	2448	A	N3-C4	-10.20	1.28	1.34
1	AA	406	G	N1-C2	10.20	1.46	1.37
35	BB	830	G	N1-C2	10.20	1.46	1.37
35	BB	2407	A	N7-C5	-10.20	1.33	1.39
35	BB	620	G	C8-N7	10.20	1.37	1.30
35	BB	1214	A	N7-C5	-10.20	1.33	1.39
1	AA	1375	A	P-O5'	-10.19	1.49	1.59
35	BB	1470	A	N9-C4	-10.19	1.31	1.37
35	BB	1029	A	C6-N6	10.18	1.42	1.33
35	BB	1129	A	C6-N6	10.18	1.42	1.33
1	AA	417	G	N7-C5	-10.18	1.33	1.39
1	AA	666	G	N1-C2	10.18	1.45	1.37
35	BB	1866	A	C2'-C1'	-10.18	1.42	1.53
1	AA	1533	C	N3-C4	10.17	1.41	1.33
35	BB	730	A	C6-N6	10.17	1.42	1.33
35	BB	2749	A	N9-C4	-10.17	1.31	1.37
35	BB	2781	A	N3-C4	-10.17	1.28	1.34
1	AA	1167	A	C5-C4	10.16	1.45	1.38
35	BB	17	G	C2-N3	10.16	1.40	1.32
35	BB	281	C	N3-C4	10.16	1.41	1.33
35	BB	1651	G	C5-C4	-10.16	1.31	1.38
35	BB	2713	U	P-O5'	10.16	1.70	1.59
1	AA	1220	G	N7-C5	-10.16	1.33	1.39
1	AA	1386	G	C2'-C1'	-10.16	1.42	1.53
35	BB	401	A	N3-C4	10.16	1.41	1.34
35	BB	633	A	N7-C5	-10.16	1.33	1.39
35	BB	2566	A	N9-C4	-10.16	1.31	1.37
35	BB	2107	G	C5-C4	10.15	1.45	1.38
35	BB	1151	A	N9-C4	10.15	1.44	1.37
35	BB	2097	A	N7-C5	-10.15	1.33	1.39
35	BB	2123	G	C6-N1	10.15	1.46	1.39
1	AA	53	A	N7-C5	-10.15	1.33	1.39
1	AA	286	C	N3-C4	10.15	1.41	1.33
35	BB	950	G	C2-N3	10.15	1.40	1.32
34	BA	83	G	C5-C6	-10.14	1.32	1.42
35	BB	579	G	N1-C2	10.14	1.45	1.37
35	BB	2550	G	C2-N3	10.14	1.40	1.32
1	AA	161	A	C6-N1	10.14	1.42	1.35
35	BB	144	A	N9-C4	10.14	1.44	1.37
35	BB	311	A	C6-N1	10.14	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	186	G	C2-N3	10.14	1.40	1.32
35	BB	466	A	N7-C5	-10.14	1.33	1.39
35	BB	2685	G	C8-N7	10.14	1.37	1.30
35	BB	14	A	N7-C5	-10.13	1.33	1.39
1	AA	316	C	C2-N3	10.12	1.43	1.35
35	BB	2466	C	N3-C4	10.12	1.41	1.33
35	BB	1237	A	N9-C4	10.12	1.44	1.37
35	BB	2134	A	C2'-C1'	-10.12	1.42	1.53
1	AA	873	A	C6-N6	10.12	1.42	1.33
35	BB	1902	C	C4-N4	10.12	1.43	1.33
35	BB	2370	G	C6-N1	10.12	1.46	1.39
35	BB	808	G	N3-C4	10.12	1.42	1.35
1	AA	199	A	C6-N1	10.11	1.42	1.35
35	BB	1660	G	C2-N3	10.11	1.40	1.32
1	AA	1139	G	N7-C5	-10.11	1.33	1.39
35	BB	989	G	C2-N2	10.11	1.44	1.34
35	BB	784	G	C2-N3	10.11	1.40	1.32
35	BB	315	G	N1-C2	10.10	1.45	1.37
1	AA	1504	G	C6-N1	10.10	1.46	1.39
35	BB	671	C	N3-C4	10.10	1.41	1.33
35	BB	1453	A	C6-N6	10.10	1.42	1.33
35	BB	2341	G	C6-N1	10.10	1.46	1.39
35	BB	2461	A	N3-C4	-10.10	1.28	1.34
35	BB	1553	A	C6-N6	10.10	1.42	1.33
35	BB	625	G	N9-C8	-10.09	1.30	1.37
35	BB	1995	U	N3-C4	10.09	1.47	1.38
1	AA	1377	A	C6-N6	10.09	1.42	1.33
35	BB	1569	A	C6-N6	10.09	1.42	1.33
35	BB	505	A	C6-N6	10.09	1.42	1.33
35	BB	2535	G	C8-N7	-10.08	1.24	1.30
1	AA	786	G	C6-N1	10.08	1.46	1.39
35	BB	808	G	N7-C5	-10.08	1.33	1.39
1	AA	1469	C	N1-C6	10.07	1.43	1.37
35	BB	8	C	C2-N3	10.07	1.43	1.35
35	BB	1228	G	N3-C4	-10.07	1.28	1.35
1	AA	1094	G	N1-C2	10.06	1.45	1.37
35	BB	403	U	C5'-C4'	10.06	1.63	1.51
35	BB	1000	A	C6-N1	10.06	1.42	1.35
35	BB	2088	A	N9-C4	10.06	1.43	1.37
1	AA	10	A	N7-C5	-10.06	1.33	1.39
35	BB	861	A	C6-N6	10.06	1.42	1.33
35	BB	1499	C	N3-C4	10.06	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	934	U	C2'-C1'	-10.06	1.42	1.53
1	AA	164	G	N7-C5	10.05	1.45	1.39
1	AA	315	A	O3'-P	-10.05	1.49	1.61
1	AA	517	G	N1-C2	10.05	1.45	1.37
35	BB	2688	G	C2-N3	10.05	1.40	1.32
1	AA	1077	G	N9-C8	10.05	1.44	1.37
1	AA	1108	G	N3-C4	10.05	1.42	1.35
1	AA	1242	G	N1-C2	10.05	1.45	1.37
35	BB	1526	C	N3-C4	10.05	1.41	1.33
1	AA	701	U	C2-N3	10.04	1.44	1.37
1	AA	1036	A	N7-C5	-10.05	1.33	1.39
1	AA	751	U	C2-N3	10.04	1.44	1.37
1	AA	747	A	C6-N6	10.04	1.42	1.33
35	BB	1168	G	C3'-C2'	-10.04	1.41	1.52
35	BB	1641	A	N7-C5	-10.04	1.33	1.39
35	BB	2738	A	C6-N6	10.03	1.42	1.33
1	AA	985	C	N1-C6	10.03	1.43	1.37
35	BB	675	A	N7-C5	-10.03	1.33	1.39
35	BB	2013	A	N7-C5	-10.03	1.33	1.39
35	BB	2737	G	C6-N1	10.03	1.46	1.39
35	BB	1235	G	N7-C5	-10.02	1.33	1.39
1	AA	64	G	N9-C8	10.02	1.44	1.37
1	AA	72	A	N7-C5	-10.02	1.33	1.39
35	BB	1737	G	N7-C5	-10.02	1.33	1.39
1	AA	762	U	N3-C4	10.02	1.47	1.38
1	AA	852	G	C8-N7	10.02	1.36	1.30
35	BB	1490	A	N7-C5	-10.02	1.33	1.39
35	BB	2733	A	C6-N6	10.01	1.42	1.33
1	AA	183	C	N1-C6	10.01	1.43	1.37
1	AA	893	C	N3-C4	10.01	1.41	1.33
35	BB	352	A	N3-C4	-10.01	1.28	1.34
35	BB	1025	G	C8-N7	-10.01	1.25	1.30
35	BB	1567	G	C8-N7	-10.01	1.25	1.30
1	AA	38	G	C8-N7	-10.01	1.25	1.30
1	AA	980	C	N3-C4	10.01	1.41	1.33
34	BA	86	G	N7-C5	-10.01	1.33	1.39
35	BB	515	A	C6-N6	10.01	1.42	1.33
35	BB	1387	A	N3-C4	-10.01	1.28	1.34
35	BB	1792	G	C6-N1	10.01	1.46	1.39
35	BB	1040	A	N3-C4	10.00	1.40	1.34
1	AA	818	G	N9-C4	-10.00	1.29	1.38
1	AA	77	A	N7-C5	10.00	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1276	A	C6-N6	10.00	1.42	1.33
35	BB	2180	U	C5-C6	-10.00	1.25	1.34
35	BB	2553	G	C2-N3	10.00	1.40	1.32
1	AA	1260	G	C5-C4	9.99	1.45	1.38
22	AV	37	G	C2-N3	9.99	1.40	1.32
35	BB	423	A	C2'-C1'	-9.99	1.42	1.53
35	BB	1601	G	N7-C5	-9.99	1.33	1.39
35	BB	1794	A	C2'-C1'	-9.99	1.42	1.53
1	AA	1128	C	N1-C6	9.98	1.43	1.37
35	BB	983	A	C6-N6	9.98	1.42	1.33
22	AV	67	G	N7-C5	9.98	1.45	1.39
35	BB	2466	C	N1-C6	9.98	1.43	1.37
35	BB	2325	G	N7-C5	-9.97	1.33	1.39
1	AA	146	G	N7-C5	-9.97	1.33	1.39
1	AA	162	A	N7-C5	-9.97	1.33	1.39
35	BB	638	G	N7-C5	-9.97	1.33	1.39
1	AA	1294	G	N7-C5	-9.97	1.33	1.39
1	AA	1065	U	O3'-P	-9.97	1.49	1.61
35	BB	2289	G	C8-N7	-9.97	1.25	1.30
35	BB	2705	A	P-O5'	-9.96	1.49	1.59
35	BB	1534	U	N3-C4	9.95	1.47	1.38
35	BB	1765	U	N3-C4	9.95	1.47	1.38
35	BB	196	A	C6-N6	9.95	1.42	1.33
35	BB	517	C	O3'-P	-9.95	1.49	1.61
35	BB	1370	C	N3-C4	9.95	1.41	1.33
35	BB	2523	G	N7-C5	-9.95	1.33	1.39
35	BB	2087	G	C5-C4	-9.94	1.31	1.38
1	AA	80	A	C8-N7	-9.94	1.24	1.31
35	BB	2727	A	N7-C5	-9.94	1.33	1.39
1	AA	1421	G	C6-N1	9.93	1.46	1.39
35	BB	2530	A	C6-N6	9.93	1.41	1.33
35	BB	2789	C	C4-N4	9.93	1.42	1.33
1	AA	340	U	C2-N3	9.93	1.44	1.37
34	BA	70	C	C4-N4	9.93	1.42	1.33
35	BB	1861	G	C8-N7	-9.93	1.25	1.30
1	AA	1347	G	P-O5'	-9.93	1.49	1.59
35	BB	1444	G	N1-C2	9.93	1.45	1.37
1	AA	371	A	O3'-P	-9.93	1.49	1.61
35	BB	1348	C	N3-C4	9.93	1.40	1.33
35	BB	1140	C	N1-C6	9.92	1.43	1.37
35	BB	1549	A	N9-C4	-9.92	1.31	1.37
35	BB	1580	A	N1-C2	9.92	1.43	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1050	A	C6-N1	9.92	1.42	1.35
34	BA	20	G	N3-C4	-9.92	1.28	1.35
34	BA	61	G	C2-N3	9.92	1.40	1.32
35	BB	1983	G	C2-N3	9.91	1.40	1.32
35	BB	2525	G	C2-N3	9.91	1.40	1.32
1	AA	1088	G	P-O5'	-9.91	1.49	1.59
35	BB	926	G	C2'-C1'	-9.91	1.42	1.53
34	BA	16	G	C2-N3	9.91	1.40	1.32
35	BB	2886	A	C6-N6	9.91	1.41	1.33
1	AA	1104	G	C6-N1	9.91	1.46	1.39
35	BB	1794	A	N7-C5	-9.91	1.33	1.39
35	BB	611	C	C2'-C1'	-9.90	1.42	1.53
35	BB	1372	U	C2'-C1'	-9.90	1.42	1.53
35	BB	2379	G	N7-C5	9.90	1.45	1.39
35	BB	1864	U	O3'-P	-9.90	1.49	1.61
35	BB	2004	G	C6-N1	9.90	1.46	1.39
35	BB	250	G	C2-N3	9.90	1.40	1.32
35	BB	2468	A	N9-C4	-9.89	1.31	1.37
35	BB	2459	A	N9-C4	9.89	1.43	1.37
35	BB	2718	G	N7-C5	-9.89	1.33	1.39
35	BB	2510	C	P-O5'	-9.89	1.49	1.59
35	BB	2662	A	N7-C5	-9.89	1.33	1.39
1	AA	745	G	P-O5'	-9.88	1.49	1.59
1	AA	749	A	C6-N1	9.88	1.42	1.35
1	AA	1061	G	N1-C2	9.88	1.45	1.37
1	AA	1466	C	C4-N4	9.88	1.42	1.33
34	BA	95	U	C2-N3	9.88	1.44	1.37
35	BB	2186	G	N1-C2	9.88	1.45	1.37
35	BB	2808	G	C2'-C1'	-9.88	1.42	1.53
35	BB	1181	U	C2'-C1'	-9.88	1.42	1.53
35	BB	1460	U	C4-C5	9.87	1.52	1.43
35	BB	268	C	C2-N3	9.87	1.43	1.35
35	BB	1853	A	N7-C5	-9.87	1.33	1.39
35	BB	1326	U	O3'-P	-9.87	1.49	1.61
35	BB	971	G	N1-C2	9.87	1.45	1.37
1	AA	128	G	N7-C5	-9.87	1.33	1.39
35	BB	829	A	C6-N1	9.86	1.42	1.35
35	BB	1310	G	O3'-P	-9.87	1.49	1.61
35	BB	1441	G	C8-N7	9.87	1.36	1.30
35	BB	2447	G	C2-N3	9.87	1.40	1.32
35	BB	2453	A	C6-N6	9.87	1.41	1.33
35	BB	1086	A	N9-C4	-9.86	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1959	G	N7-C5	-9.86	1.33	1.39
1	AA	1526	G	C2-N3	9.86	1.40	1.32
1	AA	760	G	C2-N3	9.85	1.40	1.32
1	AA	1297	G	C6-N1	9.85	1.46	1.39
1	AA	1333	A	N7-C5	-9.85	1.33	1.39
35	BB	1318	U	N3-C4	9.85	1.47	1.38
35	BB	1376	C	P-O5'	-9.85	1.50	1.59
35	BB	1821	A	N7-C5	9.85	1.45	1.39
35	BB	2329	U	C3'-C2'	-9.85	1.42	1.52
35	BB	666	A	C6-N1	9.84	1.42	1.35
35	BB	957	C	N1-C6	9.84	1.43	1.37
1	AA	697	U	C2-N3	9.84	1.44	1.37
35	BB	218	A	N9-C8	9.84	1.45	1.37
35	BB	335	C	N3-C4	9.84	1.40	1.33
35	BB	711	G	N7-C5	-9.83	1.33	1.39
1	AA	1252	A	C2-N3	9.83	1.42	1.33
35	BB	1390	U	N3-C4	9.83	1.47	1.38
35	BB	1205	A	C6-N1	9.83	1.42	1.35
35	BB	1452	G	P-O5'	-9.83	1.50	1.59
35	BB	1434	A	C6-N1	9.83	1.42	1.35
1	AA	538	G	C6-N1	9.82	1.46	1.39
35	BB	1341	G	C6-N1	9.82	1.46	1.39
35	BB	2614	A	O3'-P	-9.82	1.49	1.61
1	AA	1079	G	C2-N3	9.82	1.40	1.32
35	BB	396	G	C2'-C1'	-9.82	1.42	1.53
35	BB	2635	A	C6-N6	9.82	1.41	1.33
1	AA	1187	G	N7-C5	-9.81	1.33	1.39
35	BB	2086	U	N1-C2	-9.81	1.29	1.38
1	AA	521	G	N3-C4	-9.81	1.28	1.35
35	BB	119	A	N9-C4	-9.81	1.31	1.37
1	AA	739	C	C4-N4	9.80	1.42	1.33
35	BB	632	A	N3-C4	9.80	1.40	1.34
35	BB	1620	G	N1-C2	9.81	1.45	1.37
1	AA	554	A	N3-C4	-9.80	1.28	1.34
1	AA	299	G	N3-C4	-9.80	1.28	1.35
1	AA	1216	A	C5-C6	-9.80	1.32	1.41
35	BB	913	U	C2-N3	9.80	1.44	1.37
35	BB	2555	U	C2-N3	9.80	1.44	1.37
35	BB	2625	G	C6-N1	9.80	1.46	1.39
1	AA	1494	G	N9-C8	9.80	1.44	1.37
1	AA	251	G	N9-C8	9.79	1.44	1.37
35	BB	474	G	N7-C5	-9.79	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	262	A	N9-C4	-9.79	1.31	1.37
35	BB	2043	C	P-O5'	-9.79	1.50	1.59
35	BB	2404	U	C3'-C2'	-9.79	1.42	1.52
35	BB	2544	G	N1-C2	9.78	1.45	1.37
35	BB	691	C	P-O5'	-9.78	1.50	1.59
35	BB	1889	A	N7-C5	-9.78	1.33	1.39
1	AA	1408	A	C5-C4	-9.78	1.31	1.38
35	BB	2536	G	C6-N1	9.78	1.46	1.39
1	AA	965	U	N3-C4	9.77	1.47	1.38
35	BB	322	A	C6-N1	9.77	1.42	1.35
35	BB	2196	C	N1-C6	9.77	1.43	1.37
35	BB	2699	C	C4-N4	9.77	1.42	1.33
35	BB	2283	C	N3-C4	9.77	1.40	1.33
35	BB	2887	A	C6-N6	9.77	1.41	1.33
1	AA	300	A	N7-C5	-9.76	1.33	1.39
35	BB	753	A	N9-C8	-9.76	1.29	1.37
35	BB	879	G	N9-C8	9.76	1.44	1.37
35	BB	1853	A	C5-C4	9.76	1.45	1.38
1	AA	312	C	N3-C4	9.76	1.40	1.33
1	AA	1289	A	N7-C5	-9.76	1.33	1.39
35	BB	1047	G	N3-C4	-9.76	1.28	1.35
35	BB	1697	G	C5-C4	9.76	1.45	1.38
35	BB	2570	G	N9-C8	9.76	1.44	1.37
1	AA	181	A	N3-C4	-9.76	1.28	1.34
35	BB	2140	G	N7-C5	-9.76	1.33	1.39
35	BB	2721	A	C6-N1	9.75	1.42	1.35
1	AA	911	U	C4'-C3'	9.75	1.63	1.53
34	BA	105	G	C6-N1	9.75	1.46	1.39
35	BB	2085	U	C2-N3	9.75	1.44	1.37
22	AV	70	C	N1-C6	9.75	1.43	1.37
35	BB	256	A	C5-C4	9.75	1.45	1.38
35	BB	283	G	N7-C5	-9.75	1.33	1.39
35	BB	2753	A	C6-N6	9.75	1.41	1.33
35	BB	1935	G	N7-C5	-9.75	1.33	1.39
35	BB	180	G	C6-N1	9.74	1.46	1.39
35	BB	2585	U	O3'-P	-9.74	1.49	1.61
1	AA	1150	A	C8-N7	-9.74	1.24	1.31
35	BB	1115	G	C5-C4	-9.74	1.31	1.38
35	BB	647	G	C8-N7	9.74	1.36	1.30
35	BB	1356	G	C6-N1	9.74	1.46	1.39
35	BB	1519	G	C6-N1	9.74	1.46	1.39
22	AV	5	A	N7-C5	-9.73	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	523	C	N1-C6	9.73	1.43	1.37
1	AA	362	G	C2-N3	9.73	1.40	1.32
1	AA	1137	C	C2-N3	9.73	1.43	1.35
35	BB	2245	U	C4-O4	9.73	1.31	1.23
35	BB	2663	G	N1-C2	9.73	1.45	1.37
35	BB	1814	G	C6-N1	9.72	1.46	1.39
35	BB	1858	A	C5-C6	-9.72	1.32	1.41
35	BB	302	C	C3'-C2'	-9.72	1.42	1.52
35	BB	1298	C	P-O5'	-9.72	1.50	1.59
35	BB	2761	A	N7-C5	-9.72	1.33	1.39
1	AA	108	G	N7-C5	-9.72	1.33	1.39
1	AA	1044	A	N3-C4	9.72	1.40	1.34
35	BB	1369	G	C2-N3	9.72	1.40	1.32
35	BB	570	G	C2-N3	9.72	1.40	1.32
35	BB	1293	C	C2'-C1'	-9.71	1.42	1.53
35	BB	845	A	C6-N6	9.71	1.41	1.33
35	BB	1410	G	C2-N3	9.71	1.40	1.32
35	BB	1103	A	N7-C5	-9.71	1.33	1.39
1	AA	450	G	C6-N1	9.71	1.46	1.39
35	BB	2670	A	C6-N6	9.71	1.41	1.33
35	BB	2382	G	C8-N7	9.71	1.36	1.30
35	BB	1529	G	C2-N3	9.70	1.40	1.32
35	BB	1344	U	N3-C4	9.70	1.47	1.38
1	AA	1024	G	C2-N2	9.70	1.44	1.34
35	BB	1445	G	C2'-C1'	-9.70	1.42	1.53
35	BB	2659	G	C2-N3	9.70	1.40	1.32
1	AA	753	A	C6-N1	9.69	1.42	1.35
35	BB	2066	C	N3-C4	9.69	1.40	1.33
1	AA	608	A	N7-C5	-9.69	1.33	1.39
35	BB	1373	A	N3-C4	-9.69	1.29	1.34
35	BB	288	U	C5'-C4'	9.69	1.62	1.51
35	BB	1251	C	N3-C4	9.69	1.40	1.33
35	BB	2693	G	N1-C2	9.69	1.45	1.37
35	BB	414	C	C2'-C1'	-9.69	1.42	1.53
35	BB	2890	G	N1-C2	9.68	1.45	1.37
35	BB	480	A	N7-C5	-9.68	1.33	1.39
35	BB	506	G	N7-C5	9.68	1.45	1.39
35	BB	1210	G	P-O5'	9.68	1.69	1.59
35	BB	1550	C	P-O5'	-9.68	1.50	1.59
35	BB	415	A	N9-C4	9.68	1.43	1.37
35	BB	1157	G	N9-C4	9.68	1.45	1.38
1	AA	487	A	N9-C4	-9.67	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	110	C	C4-C5	9.67	1.50	1.43
35	BB	2076	U	O3'-P	-9.67	1.49	1.61
35	BB	2484	G	C8-N7	9.67	1.36	1.30
35	BB	2490	G	N3-C4	-9.67	1.28	1.35
1	AA	1476	A	C6-N6	9.67	1.41	1.33
1	AA	1482	G	C2-N3	9.67	1.40	1.32
34	BA	27	C	N1-C6	9.67	1.43	1.37
35	BB	2557	G	N9-C8	9.67	1.44	1.37
1	AA	1414	U	C2-N3	9.66	1.44	1.37
35	BB	2242	G	N1-C2	9.66	1.45	1.37
35	BB	2470	G	N1-C2	9.66	1.45	1.37
1	AA	768	A	C6-N6	9.66	1.41	1.33
35	BB	514	A	N7-C5	-9.66	1.33	1.39
1	AA	476	U	C2-N3	9.66	1.44	1.37
1	AA	983	A	N3-C4	-9.66	1.29	1.34
1	AA	1141	C	N3-C4	9.66	1.40	1.33
35	BB	2228	G	N7-C5	-9.66	1.33	1.39
35	BB	2708	G	C6-N1	9.66	1.46	1.39
1	AA	346	G	N3-C4	9.65	1.42	1.35
35	BB	1427	A	N7-C5	-9.65	1.33	1.39
35	BB	972	A	C6-N6	9.65	1.41	1.33
35	BB	1127	A	C5-C4	9.65	1.45	1.38
35	BB	1722	A	C8-N7	-9.65	1.24	1.31
1	AA	1474	U	C2-O2	9.65	1.31	1.22
35	BB	2734	A	C6-N6	9.65	1.41	1.33
1	AA	83	C	N3-C4	9.65	1.40	1.33
1	AA	1504	G	N3-C4	-9.65	1.28	1.35
35	BB	2692	G	N7-C5	-9.64	1.33	1.39
1	AA	157	U	C2-N3	9.64	1.44	1.37
1	AA	1271	A	N9-C4	9.64	1.43	1.37
35	BB	504	A	C6-N1	9.64	1.42	1.35
35	BB	671	C	C2-N3	9.64	1.43	1.35
35	BB	1445	G	N1-C2	9.64	1.45	1.37
1	AA	1441	A	O4'-C1'	9.64	1.54	1.41
35	BB	271	G	C2'-C1'	-9.64	1.42	1.53
35	BB	1823	G	N1-C2	9.64	1.45	1.37
35	BB	53	A	N9-C4	9.63	1.43	1.37
35	BB	2829	A	C5-C4	-9.63	1.32	1.38
1	AA	1111	A	N7-C5	-9.63	1.33	1.39
1	AA	1077	G	N1-C2	9.63	1.45	1.37
1	AA	1504	G	C2-N3	9.62	1.40	1.32
35	BB	391	A	N9-C4	9.62	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2352	A	C6-N6	9.62	1.41	1.33
35	BB	319	G	C6-N1	9.62	1.46	1.39
1	AA	888	G	C6-N1	9.61	1.46	1.39
35	BB	274	C	C4-N4	9.61	1.42	1.33
1	AA	444	G	C4'-C3'	9.60	1.63	1.53
1	AA	1111	A	N3-C4	-9.60	1.29	1.34
1	AA	741	G	N3-C4	9.60	1.42	1.35
35	BB	1873	G	N7-C5	-9.60	1.33	1.39
35	BB	1077	A	N3-C4	-9.60	1.29	1.34
1	AA	167	A	N9-C4	9.60	1.43	1.37
1	AA	596	A	C8-N7	-9.60	1.24	1.31
35	BB	995	C	N3-C4	9.60	1.40	1.33
35	BB	1269	A	N7-C5	-9.60	1.33	1.39
35	BB	1587	G	N7-C5	-9.60	1.33	1.39
1	AA	832	G	C5'-C4'	9.59	1.62	1.51
35	BB	1757	A	C5-C4	9.59	1.45	1.38
1	AA	949	A	N7-C5	-9.59	1.33	1.39
35	BB	1475	G	N1-C2	9.59	1.45	1.37
35	BB	2327	A	N3-C4	-9.59	1.29	1.34
35	BB	1350	C	C2-N3	-9.59	1.28	1.35
1	AA	997	U	C5'-C4'	9.59	1.62	1.51
35	BB	2389	G	N1-C2	9.59	1.45	1.37
1	AA	1188	A	C6-N6	9.58	1.41	1.33
35	BB	690	G	C2'-C1'	-9.58	1.42	1.53
35	BB	2434	A	C5'-C4'	9.58	1.62	1.51
1	AA	275	G	N7-C5	-9.58	1.33	1.39
35	BB	73	A	N3-C4	-9.58	1.29	1.34
35	BB	896	A	N7-C5	9.58	1.45	1.39
35	BB	32	C	C3'-C2'	9.57	1.63	1.52
35	BB	852	U	P-O5'	-9.57	1.50	1.59
35	BB	855	G	N1-C2	9.57	1.45	1.37
35	BB	1254	A	C6-N1	9.57	1.42	1.35
35	BB	447	A	N7-C5	-9.57	1.33	1.39
35	BB	718	A	C6-N1	9.57	1.42	1.35
35	BB	1684	G	N9-C8	9.57	1.44	1.37
1	AA	800	G	C2'-C1'	-9.57	1.42	1.53
35	BB	138	U	P-O5'	9.57	1.69	1.59
35	BB	638	G	N3-C4	-9.57	1.28	1.35
35	BB	2077	A	N9-C4	-9.56	1.32	1.37
35	BB	2867	G	C2-N3	9.56	1.40	1.32
1	AA	751	U	C3'-C2'	-9.56	1.42	1.52
1	AA	317	U	C2'-C1'	-9.56	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	916	G	N9-C4	9.56	1.45	1.38
35	BB	6	A	C5-C4	-9.56	1.32	1.38
35	BB	1056	G	C5-C6	-9.56	1.32	1.42
1	AA	1492	A	N7-C5	-9.55	1.33	1.39
35	BB	2810	A	P-O5'	-9.55	1.50	1.59
1	AA	16	A	C6-N6	9.55	1.41	1.33
35	BB	393	C	C5'-C4'	9.55	1.62	1.51
35	BB	733	G	C6-N1	9.55	1.46	1.39
35	BB	2209	G	C5-C4	-9.55	1.31	1.38
35	BB	824	U	P-O5'	-9.55	1.50	1.59
35	BB	633	A	N3-C4	-9.55	1.29	1.34
1	AA	1200	C	N3-C4	9.55	1.40	1.33
35	BB	1229	C	N3-C4	9.55	1.40	1.33
35	BB	992	C	N3-C4	9.54	1.40	1.33
1	AA	97	G	N7-C5	-9.54	1.33	1.39
1	AA	203	G	N7-C5	-9.54	1.33	1.39
1	AA	1439	G	C8-N7	-9.54	1.25	1.30
34	BA	81	G	N1-C2	9.54	1.45	1.37
35	BB	99	U	C2-N3	9.54	1.44	1.37
35	BB	1216	G	C2'-C1'	-9.54	1.42	1.53
35	BB	555	G	N7-C5	-9.54	1.33	1.39
1	AA	908	A	C3'-C2'	9.54	1.63	1.52
35	BB	805	G	C2'-C1'	-9.53	1.42	1.53
35	BB	1098	A	N7-C5	-9.54	1.33	1.39
1	AA	835	U	P-O5'	-9.53	1.50	1.59
35	BB	2151	U	N3-C4	9.53	1.47	1.38
1	AA	64	G	C2-N3	9.53	1.40	1.32
1	AA	1381	U	N1-C2	9.53	1.47	1.38
35	BB	1178	C	N1-C6	9.53	1.42	1.37
35	BB	1273	U	P-O5'	9.53	1.69	1.59
35	BB	1665	A	C6-N1	9.53	1.42	1.35
35	BB	1686	C	O3'-P	-9.53	1.49	1.61
35	BB	2675	A	N7-C5	-9.52	1.33	1.39
1	AA	990	C	N3-C4	9.52	1.40	1.33
1	AA	1154	G	N7-C5	-9.52	1.33	1.39
34	BA	106	G	N1-C2	9.52	1.45	1.37
35	BB	2585	U	C2-N3	9.52	1.44	1.37
35	BB	1784	A	N7-C5	-9.52	1.33	1.39
35	BB	2394	C	C4-C5	9.52	1.50	1.43
1	AA	1054	C	C4-C5	9.51	1.50	1.43
1	AA	1459	G	N3-C4	9.51	1.42	1.35
1	AA	1313	U	C2'-C1'	-9.51	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	364	A	C6-N1	9.51	1.42	1.35
1	AA	474	G	N3-C4	-9.51	1.28	1.35
35	BB	1750	G	C8-N7	-9.51	1.25	1.30
35	BB	2455	G	P-O5'	-9.51	1.50	1.59
1	AA	658	C	P-O5'	-9.50	1.50	1.59
1	AA	1034	G	C2-N3	9.50	1.40	1.32
35	BB	909	A	N9-C8	9.50	1.45	1.37
35	BB	1776	G	C2-N3	9.50	1.40	1.32
35	BB	327	G	C2-N2	9.50	1.44	1.34
35	BB	2290	G	C2-N3	9.50	1.40	1.32
1	AA	338	A	C2'-C1'	-9.50	1.43	1.53
35	BB	1144	A	C6-N1	9.50	1.42	1.35
1	AA	434	U	N1-C2	9.49	1.47	1.38
1	AA	1522	U	N3-C4	9.49	1.47	1.38
35	BB	1670	C	N1-C6	9.49	1.42	1.37
35	BB	2636	C	N1-C6	9.49	1.42	1.37
35	BB	621	A	P-O5'	-9.49	1.50	1.59
35	BB	1308	A	N3-C4	9.49	1.40	1.34
35	BB	1069	A	N7-C5	-9.49	1.33	1.39
1	AA	149	A	N9-C4	9.49	1.43	1.37
1	AA	490	C	C4'-O4'	9.49	1.57	1.45
1	AA	1026	G	C5-C6	9.49	1.51	1.42
1	AA	1253	G	N1-C2	9.48	1.45	1.37
35	BB	763	G	N9-C8	-9.48	1.31	1.37
35	BB	1603	A	C6-N1	9.48	1.42	1.35
1	AA	1250	A	N7-C5	-9.48	1.33	1.39
35	BB	1945	G	N7-C5	-9.48	1.33	1.39
1	AA	1187	G	C5-C4	9.48	1.45	1.38
35	BB	1218	G	C8-N7	9.48	1.36	1.30
1	AA	148	G	C8-N7	9.47	1.36	1.30
35	BB	407	G	N9-C4	-9.47	1.30	1.38
35	BB	2788	C	C4-N4	9.47	1.42	1.33
22	AV	73	A	N7-C5	-9.47	1.33	1.39
35	BB	1861	G	C6-N1	9.47	1.46	1.39
35	BB	394	C	P-O5'	-9.47	1.50	1.59
35	BB	627	A	C6-N6	9.46	1.41	1.33
35	BB	2733	A	P-O5'	-9.46	1.50	1.59
35	BB	319	G	C2-N3	9.46	1.40	1.32
35	BB	470	A	N7-C5	-9.46	1.33	1.39
1	AA	1047	G	N9-C8	-9.46	1.31	1.37
1	AA	1236	A	C4'-C3'	9.46	1.63	1.53
35	BB	1322	A	N9-C4	-9.46	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1341	U	C2-N3	9.45	1.44	1.37
35	BB	2010	G	C6-N1	9.46	1.46	1.39
35	BB	2481	G	C2-N2	9.46	1.44	1.34
35	BB	220	G	C2-N3	9.45	1.40	1.32
35	BB	1556	C	N1-C6	9.45	1.42	1.37
34	BA	4	C	C2-N3	9.45	1.43	1.35
35	BB	729	G	N1-C2	9.45	1.45	1.37
35	BB	1110	G	C6-N1	9.45	1.46	1.39
1	AA	1346	A	C8-N7	9.45	1.38	1.31
35	BB	990	A	C6-N1	9.45	1.42	1.35
35	BB	2778	A	N9-C4	9.45	1.43	1.37
1	AA	7	A	N7-C5	-9.45	1.33	1.39
1	AA	1300	G	C5'-C4'	9.45	1.62	1.51
34	BA	5	U	C2-N3	9.45	1.44	1.37
35	BB	1755	A	N3-C4	9.45	1.40	1.34
35	BB	1028	A	N7-C5	-9.44	1.33	1.39
35	BB	706	A	N7-C5	-9.44	1.33	1.39
35	BB	1743	G	C2-N3	9.44	1.40	1.32
1	AA	722	G	N7-C5	-9.44	1.33	1.39
35	BB	2613	U	C2-N3	9.44	1.44	1.37
1	AA	220	G	N3-C4	-9.44	1.28	1.35
1	AA	1331	G	P-O5'	-9.44	1.50	1.59
34	BA	53	A	N3-C4	-9.44	1.29	1.34
35	BB	317	G	N7-C5	-9.44	1.33	1.39
1	AA	696	A	C8-N7	-9.43	1.25	1.31
1	AA	780	A	C6-N1	9.43	1.42	1.35
35	BB	308	G	N7-C5	-9.43	1.33	1.39
35	BB	2722	G	C2-N3	9.43	1.40	1.32
35	BB	2025	C	N1-C6	-9.43	1.31	1.37
1	AA	236	A	N7-C5	-9.43	1.33	1.39
1	AA	614	C	N3-C4	9.43	1.40	1.33
35	BB	1829	A	N7-C5	-9.43	1.33	1.39
1	AA	443	C	C4-N4	9.43	1.42	1.33
35	BB	259	G	C3'-C2'	9.43	1.63	1.52
35	BB	377	G	N1-C2	9.43	1.45	1.37
35	BB	1497	U	N3-C4	9.43	1.47	1.38
35	BB	1436	G	N7-C5	-9.42	1.33	1.39
1	AA	793	U	P-O5'	-9.42	1.50	1.59
35	BB	288	U	N3-C4	9.42	1.47	1.38
35	BB	947	A	N3-C4	9.42	1.40	1.34
35	BB	1755	A	N7-C5	-9.42	1.33	1.39
35	BB	1823	G	C5-C6	-9.42	1.32	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1948	G	O3'-P	-9.42	1.49	1.61
35	BB	2589	A	N7-C5	-9.42	1.33	1.39
35	BB	2764	A	C5-C4	9.42	1.45	1.38
1	AA	447	G	N9-C8	9.42	1.44	1.37
35	BB	214	G	N7-C5	-9.42	1.33	1.39
1	AA	621	A	C6-N1	9.42	1.42	1.35
35	BB	1693	U	C4'-C3'	9.41	1.63	1.53
1	AA	710	G	N9-C4	-9.41	1.30	1.38
35	BB	1974	C	C4-C5	9.41	1.50	1.43
35	BB	2091	C	O3'-P	-9.41	1.49	1.61
1	AA	757	U	C2-N3	9.41	1.44	1.37
35	BB	598	U	C2-N3	9.41	1.44	1.37
35	BB	779	U	C4-C5	9.41	1.52	1.43
35	BB	1187	G	N7-C5	-9.41	1.33	1.39
35	BB	1470	A	N7-C5	-9.41	1.33	1.39
35	BB	2273	A	N7-C5	-9.41	1.33	1.39
1	AA	60	A	N3-C4	-9.41	1.29	1.34
1	AA	1251	A	N3-C4	-9.41	1.29	1.34
1	AA	409	U	C2-N3	9.40	1.44	1.37
35	BB	188	G	C8-N7	-9.40	1.25	1.30
1	AA	780	A	N9-C4	9.40	1.43	1.37
35	BB	1213	A	N7-C5	-9.40	1.33	1.39
1	AA	1310	G	C2'-C1'	-9.40	1.43	1.53
1	AA	329	A	N7-C5	-9.40	1.33	1.39
1	AA	951	G	N7-C5	9.40	1.44	1.39
1	AA	993	G	C5-C4	9.40	1.45	1.38
35	BB	1826	G	N9-C4	-9.40	1.30	1.38
35	BB	2031	A	N3-C4	-9.40	1.29	1.34
35	BB	1505	A	C6-N1	9.40	1.42	1.35
35	BB	1960	A	C6-N6	9.40	1.41	1.33
35	BB	2388	A	C4'-C3'	-9.39	1.42	1.53
1	AA	416	G	N3-C4	-9.39	1.28	1.35
34	BA	74	U	O3'-P	-9.39	1.49	1.61
35	BB	659	G	N9-C8	9.39	1.44	1.37
1	AA	322	C	C2-N3	9.39	1.43	1.35
35	BB	23	G	C5-C6	-9.39	1.32	1.42
35	BB	471	A	N7-C5	-9.39	1.33	1.39
1	AA	560	A	C8-N7	-9.38	1.25	1.31
34	BA	29	A	N7-C5	-9.38	1.33	1.39
35	BB	460	A	N7-C5	-9.38	1.33	1.39
1	AA	1119	C	N3-C4	9.38	1.40	1.33
35	BB	801	G	C2-N3	9.38	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2781	A	C6-N6	9.37	1.41	1.33
35	BB	959	A	C6-N1	9.37	1.42	1.35
35	BB	2047	C	N3-C4	9.37	1.40	1.33
35	BB	36	G	C2'-C1'	-9.37	1.43	1.53
35	BB	1668	A	N9-C4	-9.37	1.32	1.37
1	AA	112	G	N7-C5	-9.37	1.33	1.39
1	AA	974	A	C5-C4	-9.37	1.32	1.38
34	BA	43	C	C4-C5	9.37	1.50	1.43
35	BB	7	G	C6-N1	9.36	1.46	1.39
35	BB	1566	A	N1-C2	9.37	1.42	1.34
1	AA	311	C	C4-N4	9.36	1.42	1.33
35	BB	2110	G	N1-C2	9.36	1.45	1.37
1	AA	11	G	N9-C8	9.36	1.44	1.37
35	BB	429	A	C6-N1	9.36	1.42	1.35
1	AA	297	G	N7-C5	-9.36	1.33	1.39
1	AA	1213	A	C5'-C4'	9.36	1.62	1.51
35	BB	367	G	C2-N3	9.36	1.40	1.32
35	BB	474	G	C2'-C1'	-9.36	1.43	1.53
35	BB	1856	U	C4'-C3'	9.36	1.63	1.53
1	AA	1252	A	N3-C4	-9.35	1.29	1.34
1	AA	1391	U	C3'-C2'	9.35	1.63	1.52
35	BB	2023	C	C2-N3	-9.35	1.28	1.35
1	AA	1175	G	C5-C4	9.35	1.44	1.38
35	BB	216	A	N3-C4	-9.35	1.29	1.34
34	BA	29	A	C8-N7	-9.35	1.25	1.31
35	BB	1930	G	N7-C5	-9.35	1.33	1.39
35	BB	2480	C	C4-C5	9.35	1.50	1.43
1	AA	479	U	P-O5'	-9.35	1.50	1.59
35	BB	2680	U	N3-C4	9.35	1.46	1.38
1	AA	1081	A	C6-N1	9.34	1.42	1.35
1	AA	1453	G	N1-C2	9.34	1.45	1.37
35	BB	2740	A	N3-C4	-9.34	1.29	1.34
35	BB	343	C	N1-C6	9.34	1.42	1.37
35	BB	391	A	C8-N7	-9.34	1.25	1.31
1	AA	917	G	C8-N7	9.34	1.36	1.30
1	AA	1365	G	C5-C4	-9.34	1.31	1.38
22	AV	1	C	C2-N3	9.34	1.43	1.35
35	BB	507	A	C8-N7	9.34	1.38	1.31
35	BB	1120	G	C2-N3	9.34	1.40	1.32
1	AA	566	G	N1-C2	9.34	1.45	1.37
35	BB	1186	G	C8-N7	-9.34	1.25	1.30
1	AA	654	G	C2-N3	9.33	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2350	C	C4-C5	9.33	1.50	1.43
1	AA	298	A	N3-C4	9.33	1.40	1.34
35	BB	2401	U	P-O5'	-9.33	1.50	1.59
35	BB	478	A	N7-C5	-9.33	1.33	1.39
35	BB	2657	A	N7-C5	-9.33	1.33	1.39
35	BB	1037	G	C2-N3	9.32	1.40	1.32
35	BB	1968	G	C6-N1	9.32	1.46	1.39
35	BB	2020	A	C6-N6	9.32	1.41	1.33
1	AA	122	G	N9-C8	-9.32	1.31	1.37
1	AA	896	C	N1-C6	9.32	1.42	1.37
35	BB	1042	G	N3-C4	-9.31	1.28	1.35
35	BB	1443	U	N3-C4	9.31	1.46	1.38
1	AA	1011	C	C2-N3	9.31	1.43	1.35
35	BB	1030	C	N3-C4	9.31	1.40	1.33
35	BB	979	A	P-O5'	-9.31	1.50	1.59
35	BB	1964	G	N7-C5	-9.31	1.33	1.39
35	BB	2406	A	N7-C5	-9.31	1.33	1.39
35	BB	2574	G	N1-C2	9.31	1.45	1.37
1	AA	863	U	C2-N3	9.31	1.44	1.37
35	BB	1418	G	C2-N2	9.31	1.43	1.34
1	AA	382	A	O3'-P	-9.30	1.50	1.61
1	AA	645	G	C2-N3	9.30	1.40	1.32
35	BB	696	G	C2-N3	9.30	1.40	1.32
35	BB	1618	A	C2'-C1'	-9.30	1.43	1.53
35	BB	2253	G	N1-C2	9.30	1.45	1.37
35	BB	1292	G	C2-N3	9.30	1.40	1.32
35	BB	2532	G	N3-C4	-9.30	1.28	1.35
35	BB	2547	A	N7-C5	-9.30	1.33	1.39
35	BB	144	A	P-O5'	-9.30	1.50	1.59
1	AA	683	G	N3-C4	-9.30	1.28	1.35
35	BB	1298	C	C5'-C4'	9.30	1.62	1.51
1	AA	649	A	N3-C4	-9.30	1.29	1.34
35	BB	476	G	P-O5'	-9.29	1.50	1.59
35	BB	1969	A	C8-N7	-9.29	1.25	1.31
35	BB	2846	G	N1-C2	9.29	1.45	1.37
35	BB	2127	G	C2-N3	9.29	1.40	1.32
1	AA	204	G	C2-N3	9.29	1.40	1.32
1	AA	216	U	O4'-C1'	9.29	1.53	1.41
1	AA	521	G	N1-C2	9.29	1.45	1.37
35	BB	523	C	N3-C4	9.29	1.40	1.33
35	BB	2479	U	C2-N3	9.29	1.44	1.37
1	AA	987	G	C6-N1	9.28	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1528	A	N3-C4	-9.29	1.29	1.34
1	AA	868	C	C4-C5	-9.28	1.35	1.43
1	AA	1421	G	C8-N7	9.28	1.36	1.30
1	AA	460	A	N3-C4	-9.28	1.29	1.34
35	BB	425	G	C2'-C1'	-9.28	1.43	1.53
35	BB	1650	A	C6-N6	9.28	1.41	1.33
35	BB	1720	U	C2-N3	9.28	1.44	1.37
1	AA	489	C	C4-N4	9.27	1.42	1.33
1	AA	813	U	C4-C5	9.27	1.51	1.43
1	AA	581	G	C2-N3	9.27	1.40	1.32
1	AA	1287	A	P-O5'	9.27	1.69	1.59
34	BA	100	G	C2-N3	9.27	1.40	1.32
35	BB	1122	G	O3'-P	-9.27	1.50	1.61
35	BB	1781	U	C2'-C1'	-9.27	1.43	1.53
35	BB	1797	G	N1-C2	9.27	1.45	1.37
35	BB	1961	C	C5-C6	-9.27	1.26	1.34
35	BB	2371	G	C4'-C3'	-9.27	1.43	1.53
35	BB	2542	A	N9-C8	-9.27	1.30	1.37
1	AA	1152	A	N9-C4	-9.27	1.32	1.37
35	BB	1825	U	C2-N3	9.27	1.44	1.37
1	AA	79	G	O4'-C1'	9.27	1.53	1.41
1	AA	382	A	N9-C8	-9.27	1.30	1.37
1	AA	1197	A	N9-C4	9.27	1.43	1.37
1	AA	1366	C	N1-C6	9.27	1.42	1.37
35	BB	1530	G	C5-C4	9.27	1.44	1.38
35	BB	2791	G	N7-C5	-9.27	1.33	1.39
1	AA	509	A	P-O5'	-9.26	1.50	1.59
35	BB	122	G	P-O5'	-9.26	1.50	1.59
35	BB	178	G	N7-C5	-9.26	1.33	1.39
35	BB	412	A	N7-C5	-9.26	1.33	1.39
35	BB	2274	A	N7-C5	-9.26	1.33	1.39
1	AA	816	A	P-O5'	-9.26	1.50	1.59
1	AA	1290	G	N1-C2	9.26	1.45	1.37
35	BB	2234	G	C2-N3	9.26	1.40	1.32
35	BB	1938	A	N9-C4	-9.26	1.32	1.37
1	AA	1194	U	C2-N3	9.26	1.44	1.37
1	AA	1292	G	C8-N7	-9.26	1.25	1.30
1	AA	499	A	C2-N3	9.25	1.41	1.33
1	AA	1386	G	C5-C6	-9.25	1.33	1.42
35	BB	2613	U	C4'-C3'	9.25	1.63	1.53
1	AA	236	A	N1-C2	9.25	1.42	1.34
35	BB	2564	A	O3'-P	-9.25	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	801	U	C5-C6	-9.25	1.25	1.34
1	AA	1516	G	N7-C5	-9.25	1.33	1.39
35	BB	2497	A	C6-N6	9.25	1.41	1.33
35	BB	938	G	N7-C5	-9.24	1.33	1.39
35	BB	1177	G	N7-C5	-9.24	1.33	1.39
35	BB	2363	G	C6-N1	9.24	1.46	1.39
1	AA	1249	C	C4-C5	9.24	1.50	1.43
35	BB	15	G	N7-C5	-9.24	1.33	1.39
35	BB	2882	A	N7-C5	-9.24	1.33	1.39
34	BA	51	G	N9-C8	9.23	1.44	1.37
35	BB	753	A	C8-N7	-9.23	1.25	1.31
35	BB	1429	G	N1-C2	9.23	1.45	1.37
35	BB	1224	U	C2'-C1'	-9.23	1.43	1.53
1	AA	444	G	N3-C4	9.23	1.42	1.35
35	BB	1301	A	C6-N1	9.23	1.42	1.35
1	AA	544	G	C8-N7	9.22	1.36	1.30
35	BB	183	C	P-O5'	9.22	1.69	1.59
1	AA	1140	C	C4-C5	-9.22	1.35	1.43
1	AA	1343	G	N7-C5	9.22	1.44	1.39
35	BB	333	G	C2-N3	9.22	1.40	1.32
35	BB	1749	A	C2'-C1'	-9.22	1.43	1.53
35	BB	2112	G	C8-N7	9.22	1.36	1.30
35	BB	463	G	C6-N1	9.22	1.46	1.39
35	BB	1389	G	C2'-C1'	-9.22	1.43	1.53
1	AA	657	U	C2-N3	9.22	1.44	1.37
35	BB	72	U	N3-C4	9.22	1.46	1.38
35	BB	618	G	C8-N7	-9.22	1.25	1.30
35	BB	690	G	C8-N7	9.22	1.36	1.30
35	BB	1664	A	P-O5'	-9.22	1.50	1.59
35	BB	2047	C	C2'-C1'	-9.22	1.43	1.53
35	BB	299	A	N7-C5	-9.22	1.33	1.39
35	BB	2310	C	C5'-C4'	9.22	1.62	1.51
35	BB	2406	A	C2'-C1'	-9.22	1.43	1.53
35	BB	2712	C	C2-N3	9.21	1.43	1.35
1	AA	248	C	N3-C4	9.21	1.40	1.33
1	AA	179	A	C6-N1	9.21	1.42	1.35
1	AA	1255	G	N7-C5	-9.21	1.33	1.39
35	BB	590	A	N7-C5	9.21	1.44	1.39
1	AA	1292	G	C2-N3	9.21	1.40	1.32
1	AA	1108	G	N9-C4	-9.21	1.30	1.38
1	AA	1226	C	C3'-C2'	-9.21	1.42	1.52
1	AA	1344	C	N3-C4	9.21	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1032	G	C6-N1	9.21	1.46	1.39
1	AA	1422	G	N1-C2	9.21	1.45	1.37
35	BB	460	A	C2'-C1'	-9.21	1.43	1.53
35	BB	2430	A	N7-C5	-9.21	1.33	1.39
35	BB	1288	G	N9-C4	9.20	1.45	1.38
35	BB	1310	G	N7-C5	-9.20	1.33	1.39
35	BB	1682	G	N3-C4	9.20	1.41	1.35
35	BB	259	G	C5-C6	-9.19	1.33	1.42
35	BB	2860	A	C8-N7	-9.19	1.25	1.31
1	AA	311	C	N3-C4	9.19	1.40	1.33
1	AA	1241	G	N3-C4	-9.19	1.29	1.35
35	BB	1907	G	N9-C8	9.19	1.44	1.37
1	AA	211	G	N1-C2	9.19	1.45	1.37
1	AA	352	C	C4-C5	9.19	1.50	1.43
35	BB	2311	A	O3'-P	-9.19	1.50	1.61
35	BB	1635	A	C2'-C1'	-9.18	1.43	1.53
1	AA	30	U	C2-N3	9.18	1.44	1.37
35	BB	1264	A	N7-C5	-9.18	1.33	1.39
1	AA	1404	C	C4-N4	9.18	1.42	1.33
35	BB	1567	G	C6-N1	9.18	1.46	1.39
35	BB	1958	C	C4-C5	9.18	1.50	1.43
35	BB	703	U	C2-N3	9.17	1.44	1.37
35	BB	2618	G	C2-N3	9.17	1.40	1.32
1	AA	1057	G	N1-C2	9.17	1.45	1.37
35	BB	798	G	C2-N3	9.17	1.40	1.32
35	BB	1879	C	N3-C4	9.17	1.40	1.33
35	BB	2790	U	N1-C6	9.17	1.46	1.38
1	AA	974	A	N9-C4	9.17	1.43	1.37
35	BB	149	A	N7-C5	-9.16	1.33	1.39
35	BB	1770	G	N9-C8	9.16	1.44	1.37
35	BB	400	G	N7-C5	-9.16	1.33	1.39
35	BB	1355	G	N7-C5	-9.16	1.33	1.39
35	BB	2646	C	N1-C6	9.16	1.42	1.37
35	BB	2740	A	C5-C6	9.16	1.49	1.41
1	AA	1442	G	C2-N3	9.16	1.40	1.32
35	BB	1508	A	P-O5'	-9.16	1.50	1.59
35	BB	2217	G	N7-C5	-9.16	1.33	1.39
35	BB	2388	A	N7-C5	-9.16	1.33	1.39
1	AA	435	A	N7-C5	-9.15	1.33	1.39
35	BB	1533	C	C2-N3	9.15	1.43	1.35
1	AA	463	U	C4-C5	9.15	1.51	1.43
1	AA	973	G	N7-C5	9.15	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1062	U	P-O5'	-9.15	1.50	1.59
35	BB	2523	G	N1-C2	9.15	1.45	1.37
35	BB	1156	A	N7-C5	-9.15	1.33	1.39
35	BB	1233	C	C2'-C1'	-9.15	1.43	1.53
1	AA	184	G	C2-N3	9.15	1.40	1.32
35	BB	849	A	C6-N6	9.15	1.41	1.33
35	BB	1424	G	N9-C8	9.15	1.44	1.37
35	BB	2736	A	N7-C5	-9.15	1.33	1.39
35	BB	179	C	N3-C4	9.14	1.40	1.33
35	BB	359	G	P-O5'	-9.14	1.50	1.59
35	BB	445	C	O3'-P	-9.14	1.50	1.61
1	AA	363	A	N7-C5	-9.14	1.33	1.39
35	BB	220	G	N7-C5	-9.14	1.33	1.39
35	BB	513	A	N7-C5	-9.14	1.33	1.39
35	BB	2531	A	N7-C5	-9.14	1.33	1.39
35	BB	2626	C	N1-C6	-9.14	1.31	1.37
1	AA	938	A	N7-C5	-9.13	1.33	1.39
35	BB	484	C	C2-N3	9.13	1.43	1.35
35	BB	1760	C	C5'-C4'	9.13	1.62	1.51
35	BB	2369	A	P-O5'	-9.13	1.50	1.59
1	AA	575	G	C2-N2	9.13	1.43	1.34
1	AA	111	G	N1-C2	9.13	1.45	1.37
35	BB	2092	U	P-O5'	-9.13	1.50	1.59
35	BB	2713	U	N3-C4	9.13	1.46	1.38
1	AA	328	C	O3'-P	-9.12	1.50	1.61
35	BB	773	U	P-O5'	-9.13	1.50	1.59
1	AA	1334	G	N1-C2	9.12	1.45	1.37
35	BB	996	A	C4'-C3'	9.12	1.63	1.53
35	BB	2006	C	P-O5'	-9.12	1.50	1.59
1	AA	1417	G	C2-N3	9.12	1.40	1.32
35	BB	583	G	N9-C8	9.12	1.44	1.37
35	BB	729	G	N3-C4	-9.12	1.29	1.35
35	BB	2059	A	C6-N6	9.12	1.41	1.33
1	AA	654	G	N3-C4	-9.12	1.29	1.35
1	AA	1131	G	N7-C5	-9.12	1.33	1.39
1	AA	1385	G	C2-N3	9.12	1.40	1.32
1	AA	424	G	N7-C5	-9.12	1.33	1.39
35	BB	244	A	C6-N6	9.12	1.41	1.33
35	BB	259	G	N9-C8	-9.12	1.31	1.37
1	AA	629	A	P-O5'	9.11	1.68	1.59
35	BB	937	C	C2'-C1'	-9.11	1.43	1.53
1	AA	1145	A	C6-N1	9.11	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1957	C	P-O5'	-9.11	1.50	1.59
35	BB	712	G	N9-C8	9.11	1.44	1.37
1	AA	1096	C	N1-C6	9.11	1.42	1.37
35	BB	699	A	C6-N1	9.11	1.42	1.35
1	AA	1304	G	N7-C5	-9.11	1.33	1.39
35	BB	694	U	C2'-C1'	-9.11	1.43	1.53
35	BB	2758	A	C5-C6	-9.11	1.32	1.41
35	BB	1238	G	N7-C5	-9.11	1.33	1.39
35	BB	325	G	N1-C2	9.10	1.45	1.37
35	BB	1515	A	N9-C4	-9.10	1.32	1.37
35	BB	2614	A	N7-C5	-9.10	1.33	1.39
1	AA	723	U	C2-N3	9.10	1.44	1.37
1	AA	927	G	C2-N3	9.10	1.40	1.32
35	BB	963	U	C5'-C4'	9.10	1.62	1.51
35	BB	1560	G	N7-C5	-9.10	1.33	1.39
1	AA	572	A	N9-C4	-9.10	1.32	1.37
1	AA	838	G	N1-C2	9.10	1.45	1.37
35	BB	1059	G	P-O5'	-9.10	1.50	1.59
1	AA	1513	A	C6-N6	9.10	1.41	1.33
35	BB	1080	A	N7-C5	-9.10	1.33	1.39
35	BB	2028	U	C2'-C1'	-9.10	1.43	1.53
34	BA	61	G	O3'-P	-9.09	1.50	1.61
1	AA	148	G	N7-C5	-9.09	1.33	1.39
1	AA	654	G	C8-N7	-9.09	1.25	1.30
1	AA	1253	G	C2-N3	9.09	1.40	1.32
1	AA	1011	C	C4'-C3'	-9.09	1.43	1.53
1	AA	803	G	N7-C5	-9.09	1.33	1.39
35	BB	733	G	N9-C8	9.09	1.44	1.37
35	BB	1710	G	C2'-C1'	-9.09	1.43	1.53
35	BB	503	A	N3-C4	-9.08	1.29	1.34
1	AA	1054	C	C4-N4	9.08	1.42	1.33
34	BA	37	C	N1-C6	9.08	1.42	1.37
1	AA	207	C	C4-N4	9.08	1.42	1.33
1	AA	717	U	C4-C5	9.08	1.51	1.43
35	BB	172	A	N7-C5	-9.08	1.33	1.39
1	AA	1256	A	C6-N6	9.08	1.41	1.33
1	AA	1441	A	N9-C4	-9.08	1.32	1.37
35	BB	173	A	C8-N7	9.08	1.38	1.31
35	BB	1099	G	N1-C2	9.08	1.45	1.37
35	BB	1196	C	N3-C4	9.08	1.40	1.33
35	BB	2191	A	C4'-O4'	-9.08	1.33	1.45
35	BB	2623	G	C2-N3	9.08	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	80	A	C6-N6	9.07	1.41	1.33
1	AA	1204	A	C5-C4	9.07	1.45	1.38
35	BB	2693	G	P-O5'	-9.07	1.50	1.59
35	BB	237	C	N3-C4	9.07	1.40	1.33
35	BB	530	G	C8-N7	-9.07	1.25	1.30
35	BB	1215	G	N1-C2	9.07	1.45	1.37
35	BB	1481	U	C4'-C3'	-9.07	1.43	1.53
35	BB	216	A	C6-N1	9.07	1.41	1.35
35	BB	1551	A	N3-C4	-9.07	1.29	1.34
1	AA	418	C	N1-C6	9.07	1.42	1.37
35	BB	1159	U	C2-N3	9.07	1.44	1.37
35	BB	841	G	C5'-C4'	9.07	1.62	1.51
35	BB	2385	C	C2-N3	9.06	1.43	1.35
35	BB	2860	A	C6-N1	9.06	1.41	1.35
35	BB	635	C	N3-C4	9.06	1.40	1.33
35	BB	1702	G	N7-C5	-9.06	1.33	1.39
35	BB	2766	A	C8-N7	-9.06	1.25	1.31
1	AA	442	G	N7-C5	9.06	1.44	1.39
35	BB	879	G	N1-C2	9.06	1.45	1.37
35	BB	1137	G	C5-C4	9.06	1.44	1.38
35	BB	1551	A	C8-N7	-9.06	1.25	1.31
35	BB	2304	G	C2-N3	9.06	1.40	1.32
35	BB	2349	G	C8-N7	-9.06	1.25	1.30
1	AA	1137	C	N1-C6	-9.06	1.31	1.37
35	BB	389	G	C2-N3	9.06	1.40	1.32
1	AA	743	A	C6-N6	9.05	1.41	1.33
35	BB	613	A	C6-N6	9.05	1.41	1.33
1	AA	758	C	C2'-C1'	-9.05	1.43	1.53
35	BB	1766	G	N9-C4	-9.05	1.30	1.38
1	AA	933	G	C6-N1	9.05	1.45	1.39
35	BB	113	U	C4-C5	9.05	1.51	1.43
35	BB	2265	U	O3'-P	-9.05	1.50	1.61
35	BB	2838	G	O3'-P	-9.05	1.50	1.61
35	BB	1182	G	O3'-P	-9.04	1.50	1.61
35	BB	1749	A	C6-N6	9.04	1.41	1.33
1	AA	1322	C	O3'-P	-9.04	1.50	1.61
35	BB	370	G	N1-C2	9.04	1.45	1.37
35	BB	1761	C	C4'-C3'	9.04	1.63	1.53
35	BB	1217	U	N3-C4	9.04	1.46	1.38
35	BB	1944	U	C2-N3	9.04	1.44	1.37
1	AA	95	C	N1-C6	9.04	1.42	1.37
1	AA	408	A	N9-C8	9.04	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	795	C	C4-C5	-9.04	1.35	1.43
1	AA	1362	A	C6-N1	9.04	1.41	1.35
35	BB	1847	A	C2'-C1'	-9.04	1.43	1.53
1	AA	1093	A	C6-N1	9.04	1.41	1.35
35	BB	13	A	N9-C8	9.04	1.45	1.37
35	BB	601	C	C5-C6	9.03	1.41	1.34
35	BB	860	U	C2'-C1'	-9.04	1.43	1.53
35	BB	1213	A	C8-N7	-9.03	1.25	1.31
1	AA	785	G	N3-C4	-9.03	1.29	1.35
35	BB	1056	G	C2'-C1'	-9.03	1.43	1.53
35	BB	1068	G	C5-C4	9.03	1.44	1.38
35	BB	1380	G	N3-C4	-9.03	1.29	1.35
35	BB	787	C	C2-N3	9.03	1.43	1.35
35	BB	1557	C	N3-C4	9.03	1.40	1.33
35	BB	1826	G	N1-C2	9.03	1.45	1.37
1	AA	953	G	N7-C5	-9.03	1.33	1.39
35	BB	504	A	C2-N3	9.03	1.41	1.33
35	BB	1354	A	P-O5'	-9.03	1.50	1.59
35	BB	2361	G	N7-C5	9.03	1.44	1.39
35	BB	2587	A	N7-C5	-9.03	1.33	1.39
1	AA	119	A	N7-C5	-9.02	1.33	1.39
1	AA	1362	A	C5-C4	9.02	1.45	1.38
35	BB	2531	A	C6-N1	9.02	1.41	1.35
35	BB	2854	G	C8-N7	-9.02	1.25	1.30
35	BB	145	C	C4-N4	9.02	1.42	1.33
35	BB	2443	C	C2'-C1'	-9.02	1.43	1.53
35	BB	289	G	C8-N7	9.02	1.36	1.30
1	AA	708	C	N1-C6	9.02	1.42	1.37
35	BB	91	A	C2'-C1'	-9.02	1.43	1.53
35	BB	2825	G	N9-C8	-9.02	1.31	1.37
35	BB	562	U	N1-C2	9.01	1.46	1.38
35	BB	1016	G	N9-C8	9.01	1.44	1.37
1	AA	394	G	N3-C4	-9.01	1.29	1.35
1	AA	889	A	P-O5'	-9.01	1.50	1.59
35	BB	95	A	C3'-C2'	9.01	1.62	1.52
1	AA	296	U	C4-C5	-9.01	1.35	1.43
1	AA	573	A	C6-N1	9.01	1.41	1.35
1	AA	716	A	C6-N6	9.01	1.41	1.33
1	AA	782	A	N3-C4	9.01	1.40	1.34
35	BB	507	A	N7-C5	-9.01	1.33	1.39
1	AA	303	A	C8-N7	-9.00	1.25	1.31
34	BA	2	G	C2'-C1'	-9.00	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1488	G	C6-N1	9.00	1.45	1.39
35	BB	1195	G	C2-N3	9.00	1.40	1.32
35	BB	2527	C	P-O5'	-9.00	1.50	1.59
35	BB	2721	A	N7-C5	-9.00	1.33	1.39
35	BB	998	C	N1-C6	-9.00	1.31	1.37
1	AA	267	C	C2-N3	8.99	1.43	1.35
1	AA	1274	A	C5'-C4'	8.99	1.62	1.51
35	BB	681	G	C6-N1	8.99	1.45	1.39
35	BB	960	A	C6-N1	8.99	1.41	1.35
1	AA	1361	G	N7-C5	-8.99	1.33	1.39
35	BB	2278	A	N7-C5	-8.99	1.33	1.39
35	BB	739	A	N9-C4	8.99	1.43	1.37
1	AA	115	G	C5-C4	-8.98	1.32	1.38
35	BB	63	A	C6-N6	8.98	1.41	1.33
35	BB	465	G	N3-C4	-8.98	1.29	1.35
35	BB	886	A	N7-C5	-8.98	1.33	1.39
35	BB	2697	G	C6-N1	8.98	1.45	1.39
35	BB	1014	A	N9-C4	-8.98	1.32	1.37
1	AA	508	U	P-O5'	8.98	1.68	1.59
35	BB	1889	A	C4'-C3'	-8.98	1.43	1.53
35	BB	733	G	C5-C6	-8.98	1.33	1.42
1	AA	68	G	C5-C6	-8.97	1.33	1.42
35	BB	819	A	N7-C5	-8.97	1.33	1.39
35	BB	2363	G	N1-C2	8.97	1.45	1.37
1	AA	1124	G	C4'-C3'	-8.97	1.43	1.53
35	BB	495	G	C8-N7	-8.97	1.25	1.30
35	BB	748	G	C6-N1	8.97	1.45	1.39
35	BB	1252	G	P-O5'	-8.97	1.50	1.59
35	BB	2022	U	N1-C6	-8.97	1.29	1.38
1	AA	567	G	N7-C5	-8.97	1.33	1.39
1	AA	753	A	C4'-C3'	8.97	1.63	1.53
35	BB	383	C	N1-C6	8.97	1.42	1.37
1	AA	977	A	C5-C4	8.96	1.45	1.38
35	BB	1808	A	N7-C5	-8.96	1.33	1.39
35	BB	2007	U	N3-C4	8.96	1.46	1.38
35	BB	2582	G	C2-N3	8.96	1.40	1.32
35	BB	221	A	C6-N1	8.96	1.41	1.35
35	BB	950	G	N9-C8	-8.96	1.31	1.37
35	BB	969	G	C2-N3	8.96	1.40	1.32
35	BB	1138	G	N9-C8	8.96	1.44	1.37
35	BB	1542	U	C4'-C3'	-8.96	1.43	1.53
35	BB	2065	C	N1-C6	8.96	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	482	A	N3-C4	8.96	1.40	1.34
35	BB	528	A	C6-N1	8.96	1.41	1.35
1	AA	1332	A	N7-C5	-8.96	1.33	1.39
35	BB	850	U	N3-C4	8.95	1.46	1.38
35	BB	1502	A	C6-N6	8.95	1.41	1.33
35	BB	2879	A	N7-C5	-8.95	1.33	1.39
1	AA	538	G	C8-N7	-8.95	1.25	1.30
1	AA	1097	C	C2'-C1'	-8.95	1.43	1.53
1	AA	89	U	C2-N3	8.94	1.44	1.37
35	BB	1023	U	C2'-C1'	-8.95	1.43	1.53
35	BB	117	G	C8-N7	-8.94	1.25	1.30
35	BB	1277	G	C5-C4	-8.94	1.32	1.38
35	BB	1785	A	N3-C4	8.94	1.40	1.34
1	AA	181	A	N7-C5	-8.94	1.33	1.39
35	BB	924	G	P-O5'	-8.94	1.50	1.59
35	BB	479	A	C5'-C4'	8.94	1.62	1.51
35	BB	1281	G	N3-C4	-8.94	1.29	1.35
1	AA	974	A	N9-C8	-8.94	1.30	1.37
34	BA	116	G	C2-N3	8.94	1.39	1.32
35	BB	2774	C	N3-C4	8.94	1.40	1.33
35	BB	262	A	N7-C5	-8.94	1.33	1.39
35	BB	2152	G	N1-C2	8.94	1.44	1.37
1	AA	49	U	C5'-C4'	8.93	1.62	1.51
1	AA	752	G	C6-N1	8.93	1.45	1.39
1	AA	1057	G	C2-N3	8.93	1.39	1.32
35	BB	629	G	N9-C4	-8.93	1.30	1.38
35	BB	701	G	N9-C4	-8.93	1.30	1.38
35	BB	893	C	N3-C4	8.93	1.40	1.33
1	AA	351	G	C2-N3	8.93	1.39	1.32
1	AA	406	G	C6-N1	8.93	1.45	1.39
35	BB	562	U	C2-N3	8.93	1.44	1.37
35	BB	1697	G	N1-C2	8.92	1.44	1.37
35	BB	225	C	N1-C6	8.92	1.42	1.37
1	AA	702	A	C6-N6	8.92	1.41	1.33
22	AV	7	G	C8-N7	-8.92	1.25	1.30
35	BB	574	A	C2'-C1'	-8.92	1.43	1.53
35	BB	1799	G	C2-N3	8.92	1.39	1.32
1	AA	771	G	C8-N7	8.92	1.36	1.30
1	AA	942	G	N9-C4	8.92	1.45	1.38
35	BB	1388	G	C2-N3	8.92	1.39	1.32
34	BA	59	A	N9-C8	-8.92	1.30	1.37
35	BB	1483	G	C2-N3	8.92	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1828	G	N9-C8	-8.92	1.31	1.37
35	BB	2246	G	N3-C4	8.92	1.41	1.35
1	AA	778	G	N3-C4	8.91	1.41	1.35
35	BB	1124	G	P-O5'	-8.91	1.50	1.59
35	BB	2284	A	N7-C5	-8.91	1.33	1.39
35	BB	1283	G	N1-C2	8.91	1.44	1.37
35	BB	1544	A	N9-C4	8.91	1.43	1.37
35	BB	2060	A	N3-C4	8.91	1.40	1.34
35	BB	2428	G	N7-C5	8.91	1.44	1.39
35	BB	87	U	P-O5'	-8.91	1.50	1.59
35	BB	345	A	C6-N1	8.91	1.41	1.35
1	AA	609	A	C8-N7	-8.90	1.25	1.31
1	AA	825	A	P-O5'	-8.90	1.50	1.59
35	BB	422	A	N9-C4	8.90	1.43	1.37
1	AA	472	U	C2-N3	8.90	1.44	1.37
1	AA	1426	G	N1-C2	8.90	1.44	1.37
35	BB	2738	A	C3'-C2'	-8.90	1.43	1.52
1	AA	1021	A	C6-N6	8.90	1.41	1.33
35	BB	326	G	N9-C8	8.90	1.44	1.37
35	BB	2156	G	C6-N1	8.90	1.45	1.39
35	BB	822	G	N1-C2	8.90	1.44	1.37
1	AA	787	A	C6-N1	8.89	1.41	1.35
1	AA	1260	G	C2-N3	8.89	1.39	1.32
1	AA	485	U	P-O5'	-8.89	1.50	1.59
35	BB	428	A	N7-C5	-8.89	1.33	1.39
35	BB	123	G	C5-C4	-8.89	1.32	1.38
35	BB	2144	G	N1-C2	8.89	1.44	1.37
1	AA	789	U	O3'-P	-8.89	1.50	1.61
35	BB	101	A	N7-C5	-8.89	1.33	1.39
35	BB	1178	C	C2-N3	8.89	1.42	1.35
1	AA	270	A	N7-C5	-8.89	1.33	1.39
35	BB	1600	C	N3-C4	8.88	1.40	1.33
35	BB	1990	C	N3-C4	8.88	1.40	1.33
35	BB	2457	U	N3-C4	8.88	1.46	1.38
35	BB	2788	C	C5'-C4'	8.88	1.62	1.51
1	AA	659	U	N3-C4	8.88	1.46	1.38
35	BB	2718	G	N9-C8	8.88	1.44	1.37
1	AA	694	A	C6-N1	8.88	1.41	1.35
1	AA	1292	G	N1-C2	8.88	1.44	1.37
35	BB	395	U	N3-C4	8.88	1.46	1.38
35	BB	585	G	N7-C5	-8.88	1.33	1.39
35	BB	1333	G	C2-N3	8.88	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2572	A	N9-C4	-8.88	1.32	1.37
1	AA	44	A	N7-C5	-8.87	1.33	1.39
1	AA	467	U	C2-N3	8.87	1.44	1.37
1	AA	1382	C	N3-C4	8.87	1.40	1.33
22	AV	69	G	N1-C2	8.87	1.44	1.37
35	BB	1050	A	N9-C8	8.87	1.44	1.37
35	BB	2172	U	C5'-C4'	8.87	1.61	1.51
1	AA	841	C	C2-N3	8.87	1.42	1.35
1	AA	1217	C	N3-C4	8.87	1.40	1.33
1	AA	912	C	N1-C6	-8.87	1.31	1.37
35	BB	239	C	N1-C6	8.87	1.42	1.37
35	BB	696	G	C5-C4	-8.87	1.32	1.38
1	AA	108	G	C6-N1	8.86	1.45	1.39
35	BB	908	C	N1-C6	-8.86	1.31	1.37
35	BB	2532	G	C8-N7	-8.86	1.25	1.30
35	BB	2664	G	C6-N1	8.86	1.45	1.39
35	BB	240	C	N1-C6	8.86	1.42	1.37
35	BB	497	A	N7-C5	-8.86	1.33	1.39
35	BB	771	G	N7-C5	-8.86	1.33	1.39
35	BB	1275	A	N3-C4	8.86	1.40	1.34
1	AA	1198	G	N7-C5	-8.86	1.33	1.39
1	AA	91	U	C4'-C3'	-8.85	1.43	1.53
1	AA	1483	A	C8-N7	-8.85	1.25	1.31
35	BB	1190	G	N1-C2	8.85	1.44	1.37
35	BB	1879	C	C2'-C1'	-8.85	1.43	1.53
35	BB	661	A	N7-C5	-8.85	1.33	1.39
35	BB	825	A	C6-N6	8.85	1.41	1.33
35	BB	1505	A	C8-N7	-8.85	1.25	1.31
35	BB	1033	U	N3-C4	8.85	1.46	1.38
35	BB	795	C	C2-N3	8.85	1.42	1.35
35	BB	2661	G	C5-C4	8.85	1.44	1.38
1	AA	951	G	C6-N1	8.85	1.45	1.39
35	BB	2643	G	N7-C5	-8.85	1.33	1.39
35	BB	68	G	C6-N1	8.85	1.45	1.39
35	BB	905	A	N9-C8	8.85	1.44	1.37
35	BB	1344	U	C2-N3	8.85	1.44	1.37
35	BB	2686	G	N1-C2	8.85	1.44	1.37
35	BB	1485	U	N3-C4	8.84	1.46	1.38
1	AA	1177	G	C2'-C1'	-8.84	1.43	1.53
1	AA	674	G	P-O5'	-8.84	1.50	1.59
1	AA	1472	U	C4-C5	8.84	1.51	1.43
35	BB	1705	A	N7-C5	-8.84	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2032	G	C2-N3	8.84	1.39	1.32
1	AA	335	C	N3-C4	8.83	1.40	1.33
1	AA	1306	A	O3'-P	-8.83	1.50	1.61
35	BB	2234	G	C2'-C1'	-8.83	1.43	1.53
35	BB	601	C	N1-C6	-8.83	1.31	1.37
35	BB	339	U	C2-N3	8.83	1.44	1.37
35	BB	1545	A	C2'-C1'	-8.83	1.43	1.53
1	AA	1445	U	O3'-P	-8.82	1.50	1.61
34	BA	24	G	C2-N2	8.82	1.43	1.34
35	BB	1081	U	C2-N3	8.82	1.44	1.37
35	BB	1192	G	N7-C5	-8.82	1.33	1.39
35	BB	1241	A	N9-C4	8.82	1.43	1.37
35	BB	1886	U	C5-C6	-8.82	1.26	1.34
35	BB	2771	C	C4-N4	8.82	1.41	1.33
1	AA	194	C	N1-C6	-8.82	1.31	1.37
1	AA	422	C	N1-C6	8.82	1.42	1.37
1	AA	1274	A	C2'-C1'	-8.82	1.43	1.53
35	BB	63	A	O3'-P	-8.82	1.50	1.61
35	BB	1898	U	P-O5'	-8.82	1.50	1.59
1	AA	472	U	O3'-P	-8.82	1.50	1.61
1	AA	1371	G	C2-N3	8.82	1.39	1.32
35	BB	266	G	C2-N3	8.82	1.39	1.32
1	AA	548	G	O3'-P	-8.81	1.50	1.61
35	BB	499	U	C2-N3	8.81	1.44	1.37
1	AA	548	G	N7-C5	-8.81	1.33	1.39
35	BB	299	A	N9-C4	-8.81	1.32	1.37
35	BB	883	G	O3'-P	-8.81	1.50	1.61
35	BB	1149	G	N1-C2	8.81	1.44	1.37
35	BB	1232	G	N7-C5	-8.81	1.33	1.39
1	AA	1021	A	N9-C4	8.80	1.43	1.37
35	BB	1304	A	C6-N6	8.80	1.41	1.33
35	BB	2231	U	C4-C5	8.80	1.51	1.43
35	BB	1406	U	P-O5'	-8.80	1.50	1.59
35	BB	2370	G	N9-C4	8.80	1.45	1.38
35	BB	111	A	N7-C5	-8.80	1.33	1.39
35	BB	1734	G	N7-C5	-8.80	1.33	1.39
35	BB	1322	A	N7-C5	-8.80	1.33	1.39
35	BB	1660	G	C5-C4	8.80	1.44	1.38
35	BB	2369	A	C5'-C4'	8.80	1.61	1.51
35	BB	2542	A	N3-C4	-8.80	1.29	1.34
35	BB	207	A	C6-N1	8.80	1.41	1.35
35	BB	888	C	C2-N3	8.80	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1377	G	C2-N3	8.80	1.39	1.32
35	BB	2171	A	C3'-C2'	8.80	1.62	1.52
1	AA	42	G	C6-N1	8.79	1.45	1.39
1	AA	115	G	C5'-C4'	8.79	1.61	1.51
1	AA	729	A	C5-C4	8.80	1.45	1.38
1	AA	1178	G	C2-N3	8.79	1.39	1.32
35	BB	1450	G	C8-N7	-8.80	1.25	1.30
35	BB	1294	U	P-O5'	-8.79	1.50	1.59
35	BB	2645	G	N7-C5	-8.79	1.33	1.39
1	AA	484	G	C2-N3	8.79	1.39	1.32
1	AA	654	G	N1-C2	8.79	1.44	1.37
1	AA	804	U	P-O5'	-8.79	1.50	1.59
1	AA	983	A	N9-C4	8.79	1.43	1.37
35	BB	1328	A	C6-N1	8.79	1.41	1.35
35	BB	2871	U	N1-C6	-8.79	1.30	1.38
1	AA	941	G	C3'-C2'	-8.79	1.43	1.52
1	AA	1309	G	C5-C4	8.79	1.44	1.38
1	AA	1394	A	C6-N6	8.79	1.41	1.33
35	BB	105	C	N3-C4	8.79	1.40	1.33
35	BB	2437	G	C8-N7	8.79	1.36	1.30
35	BB	170	U	C5'-C4'	8.79	1.61	1.51
35	BB	1206	G	C2-N3	8.79	1.39	1.32
35	BB	2494	G	C2-N3	8.79	1.39	1.32
1	AA	361	G	C3'-C2'	-8.79	1.43	1.52
35	BB	1766	G	C2-N3	8.79	1.39	1.32
1	AA	216	U	N1-C2	8.78	1.46	1.38
1	AA	240	G	P-O5'	8.78	1.68	1.59
34	BA	88	C	C4'-C3'	-8.78	1.43	1.53
35	BB	2210	U	N1-C6	8.78	1.45	1.38
35	BB	2502	G	P-O5'	-8.78	1.50	1.59
35	BB	2488	G	N7-C5	8.78	1.44	1.39
1	AA	1326	U	P-O5'	-8.78	1.50	1.59
1	AA	1412	C	C4-C5	-8.78	1.35	1.43
35	BB	89	A	P-O5'	-8.77	1.50	1.59
35	BB	335	C	N1-C6	8.77	1.42	1.37
1	AA	773	G	C6-N1	8.77	1.45	1.39
35	BB	993	G	C2-N2	8.77	1.43	1.34
1	AA	962	C	N1-C6	8.77	1.42	1.37
35	BB	1392	A	C6-N6	8.77	1.41	1.33
35	BB	1436	G	N1-C2	8.77	1.44	1.37
35	BB	211	C	C2-N3	8.77	1.42	1.35
1	AA	92	U	N1-C6	8.77	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	712	G	N3-C4	-8.77	1.29	1.35
35	BB	1654	A	C6-N1	8.77	1.41	1.35
35	BB	1478	G	N7-C5	8.76	1.44	1.39
35	BB	194	G	N3-C4	-8.76	1.29	1.35
35	BB	1934	C	N1-C6	8.76	1.42	1.37
35	BB	1445	G	N3-C4	-8.76	1.29	1.35
1	AA	46	G	N1-C2	8.76	1.44	1.37
35	BB	2471	A	N7-C5	-8.76	1.33	1.39
35	BB	1429	G	C2-N3	8.76	1.39	1.32
35	BB	1475	G	C2'-C1'	-8.76	1.43	1.53
1	AA	700	G	C2-N2	8.75	1.43	1.34
35	BB	1034	G	N7-C5	-8.75	1.33	1.39
35	BB	74	A	C5'-C4'	8.75	1.61	1.51
35	BB	409	G	N9-C4	-8.75	1.30	1.38
35	BB	2169	A	C5'-C4'	8.75	1.61	1.51
34	BA	42	C	C4-N4	8.74	1.41	1.33
1	AA	674	G	C5-C6	-8.74	1.33	1.42
35	BB	2021	C	C4-N4	8.74	1.41	1.33
34	BA	15	A	N7-C5	-8.74	1.34	1.39
34	BA	59	A	C6-N6	8.74	1.41	1.33
35	BB	741	U	C2'-C1'	-8.74	1.43	1.53
1	AA	831	A	N7-C5	-8.74	1.34	1.39
35	BB	2603	G	N1-C2	8.74	1.44	1.37
35	BB	49	A	C6-N6	8.73	1.41	1.33
35	BB	480	A	C6-N1	8.73	1.41	1.35
1	AA	24	U	C4'-C3'	8.73	1.62	1.53
35	BB	1532	A	P-O5'	-8.73	1.51	1.59
35	BB	2031	A	N9-C4	8.73	1.43	1.37
1	AA	1227	A	C6-N1	8.72	1.41	1.35
35	BB	1205	A	C8-N7	-8.72	1.25	1.31
35	BB	1286	A	C5-C4	8.72	1.44	1.38
35	BB	1332	G	N7-C5	-8.72	1.34	1.39
1	AA	213	G	C2'-C1'	-8.72	1.43	1.53
35	BB	2170	A	N3-C4	8.72	1.40	1.34
1	AA	600	A	C6-N6	8.72	1.41	1.33
1	AA	761	G	N9-C8	8.72	1.44	1.37
35	BB	1475	G	C5-C4	8.72	1.44	1.38
35	BB	1475	G	N9-C8	8.72	1.44	1.37
35	BB	1784	A	N9-C4	-8.72	1.32	1.37
1	AA	1142	G	C5'-C4'	8.72	1.61	1.51
1	AA	495	A	N3-C4	8.71	1.40	1.34
1	AA	579	A	N9-C8	-8.71	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1395	A	N9-C8	-8.71	1.30	1.37
35	BB	2491	U	C2-N3	8.72	1.43	1.37
1	AA	1426	G	C2-N2	8.71	1.43	1.34
1	AA	1480	A	C6-N1	-8.71	1.29	1.35
35	BB	32	C	N1-C6	8.71	1.42	1.37
35	BB	1195	G	C6-N1	8.71	1.45	1.39
1	AA	841	C	N3-C4	8.71	1.40	1.33
1	AA	1518	A	C6-N6	8.71	1.41	1.33
1	AA	1127	G	C2-N3	8.71	1.39	1.32
1	AA	1061	G	P-O5'	-8.70	1.51	1.59
1	AA	1152	A	N3-C4	8.70	1.40	1.34
35	BB	86	G	C6-N1	8.70	1.45	1.39
1	AA	1218	C	N3-C4	8.70	1.40	1.33
35	BB	1027	A	N3-C4	-8.70	1.29	1.34
1	AA	161	A	N7-C5	-8.70	1.34	1.39
1	AA	570	G	C2-N3	8.70	1.39	1.32
35	BB	1162	G	N1-C2	8.70	1.44	1.37
35	BB	2529	G	N9-C4	-8.70	1.30	1.38
35	BB	8	C	N1-C6	8.70	1.42	1.37
35	BB	2759	G	N3-C4	-8.70	1.29	1.35
1	AA	1274	A	N7-C5	-8.69	1.34	1.39
35	BB	73	A	N7-C5	-8.70	1.34	1.39
35	BB	252	G	N3-C4	-8.70	1.29	1.35
35	BB	1088	A	C6-N6	8.69	1.41	1.33
35	BB	2750	A	N7-C5	-8.69	1.34	1.39
35	BB	95	A	C2'-C1'	-8.69	1.43	1.53
1	AA	877	G	N9-C8	-8.69	1.31	1.37
1	AA	883	C	C4-N4	8.69	1.41	1.33
1	AA	1262	C	C2-N3	8.69	1.42	1.35
1	AA	536	C	N3-C4	8.69	1.40	1.33
35	BB	1900	A	N9-C4	-8.69	1.32	1.37
35	BB	2648	G	C6-N1	8.69	1.45	1.39
1	AA	238	A	C6-N6	8.68	1.40	1.33
34	BA	47	C	O3'-P	-8.68	1.50	1.61
1	AA	844	G	C8-N7	-8.68	1.25	1.30
35	BB	941	A	P-O5'	-8.68	1.51	1.59
35	BB	979	A	C6-N6	8.68	1.40	1.33
35	BB	1871	A	N7-C5	-8.68	1.34	1.39
35	BB	572	A	C2'-C1'	-8.68	1.43	1.53
1	AA	609	A	N9-C4	-8.67	1.32	1.37
1	AA	201	G	N1-C2	8.67	1.44	1.37
35	BB	561	G	N1-C2	8.67	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	776	G	C5-C4	8.67	1.44	1.38
35	BB	2160	C	C4'-C3'	8.67	1.62	1.53
35	BB	996	A	N9-C4	8.67	1.43	1.37
35	BB	149	A	C6-N1	8.66	1.41	1.35
35	BB	1230	A	C6-N1	8.66	1.41	1.35
1	AA	667	G	N7-C5	-8.66	1.34	1.39
35	BB	1684	G	C2-N3	8.66	1.39	1.32
35	BB	1814	G	N7-C5	-8.66	1.34	1.39
35	BB	2719	G	C2-N3	8.66	1.39	1.32
35	BB	2893	A	C6-N1	8.66	1.41	1.35
1	AA	193	C	N3-C4	8.66	1.40	1.33
35	BB	291	G	N9-C8	8.66	1.44	1.37
35	BB	1191	G	C5-C4	8.66	1.44	1.38
1	AA	25	C	C4-N4	8.65	1.41	1.33
1	AA	320	A	C8-N7	-8.65	1.25	1.31
1	AA	453	G	C2-N3	8.65	1.39	1.32
35	BB	2535	G	N7-C5	-8.65	1.34	1.39
35	BB	2647	U	C2-N3	8.65	1.43	1.37
1	AA	778	G	C8-N7	8.65	1.36	1.30
35	BB	2653	U	C4-C5	8.65	1.51	1.43
1	AA	118	U	C2-N3	8.65	1.43	1.37
35	BB	1131	G	C2-N2	8.65	1.43	1.34
35	BB	1450	G	N1-C2	8.65	1.44	1.37
1	AA	311	C	C2'-C1'	-8.65	1.43	1.53
1	AA	921	U	P-O5'	-8.65	1.51	1.59
1	AA	1456	A	C8-N7	8.65	1.37	1.31
22	AV	75	C	N1-C6	8.65	1.42	1.37
35	BB	212	G	N9-C8	-8.65	1.31	1.37
35	BB	579	G	C2-N3	8.65	1.39	1.32
1	AA	833	G	N9-C8	8.65	1.44	1.37
35	BB	1085	A	C6-N1	8.65	1.41	1.35
35	BB	1385	A	P-O5'	-8.65	1.51	1.59
1	AA	246	A	N1-C2	-8.64	1.26	1.34
1	AA	1484	C	N1-C6	-8.64	1.31	1.37
1	AA	1505	G	C2'-C1'	-8.64	1.43	1.53
35	BB	464	U	C2'-C1'	-8.64	1.43	1.53
35	BB	1214	A	C6-N6	8.64	1.40	1.33
35	BB	1293	C	C4'-C3'	-8.64	1.43	1.53
35	BB	1533	C	N3-C4	8.64	1.40	1.33
35	BB	2569	G	N9-C8	8.64	1.44	1.37
1	AA	808	C	N3-C4	8.64	1.40	1.33
35	BB	274	C	C5'-C4'	8.64	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	892	A	C6-N6	8.64	1.40	1.33
35	BB	1180	U	N1-C6	-8.64	1.30	1.38
35	BB	2314	A	N9-C4	-8.64	1.32	1.37
1	AA	332	G	N9-C4	8.64	1.44	1.38
1	AA	937	A	N9-C4	8.64	1.43	1.37
35	BB	504	A	C8-N7	-8.64	1.25	1.31
35	BB	1639	C	N3-C4	8.64	1.40	1.33
1	AA	386	C	N1-C6	8.63	1.42	1.37
35	BB	1948	G	N7-C5	-8.64	1.34	1.39
35	BB	127	A	C6-N1	8.63	1.41	1.35
1	AA	704	A	P-O5'	-8.63	1.51	1.59
1	AA	1419	G	C2-N3	8.63	1.39	1.32
35	BB	2692	G	N9-C4	-8.63	1.31	1.38
35	BB	2859	G	C6-N1	8.63	1.45	1.39
1	AA	39	G	N7-C5	-8.63	1.34	1.39
1	AA	929	G	N1-C2	8.63	1.44	1.37
34	BA	114	C	N1-C6	8.63	1.42	1.37
35	BB	2242	G	C5-C4	8.63	1.44	1.38
1	AA	399	G	N1-C2	8.63	1.44	1.37
34	BA	116	G	C6-O6	-8.63	1.16	1.24
35	BB	1910	G	N9-C8	8.62	1.43	1.37
35	BB	2869	G	C5-C6	-8.63	1.33	1.42
35	BB	1442	U	C2'-C1'	-8.62	1.43	1.53
35	BB	1537	G	C6-N1	8.62	1.45	1.39
1	AA	149	A	C2'-C1'	-8.62	1.43	1.53
35	BB	778	G	C6-N1	8.62	1.45	1.39
35	BB	1291	C	C2-N3	8.62	1.42	1.35
35	BB	2058	A	N3-C4	8.62	1.40	1.34
1	AA	346	G	C6-N1	8.62	1.45	1.39
1	AA	351	G	N7-C5	-8.62	1.34	1.39
1	AA	1391	U	C4'-O4'	8.62	1.56	1.45
35	BB	22	C	C4-C5	8.62	1.49	1.43
35	BB	2015	A	N9-C4	-8.62	1.32	1.37
1	AA	1176	A	N7-C5	-8.61	1.34	1.39
35	BB	2891	U	O3'-P	-8.61	1.50	1.61
35	BB	777	G	N7-C5	-8.61	1.34	1.39
35	BB	811	U	P-O5'	-8.61	1.51	1.59
35	BB	976	G	C8-N7	-8.61	1.25	1.30
35	BB	2858	C	C4-C5	8.61	1.49	1.43
35	BB	579	G	C8-N7	8.61	1.36	1.30
35	BB	2292	U	N3-C4	8.61	1.46	1.38
35	BB	70	G	C2-N3	8.61	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	88	C	C4'-O4'	8.61	1.56	1.45
1	AA	382	A	C2'-C1'	-8.60	1.43	1.53
35	BB	1274	A	N1-C2	8.60	1.42	1.34
35	BB	1639	C	C5'-C4'	8.60	1.61	1.51
35	BB	1718	G	C2-N2	8.60	1.43	1.34
35	BB	2250	G	C8-N7	8.60	1.36	1.30
1	AA	1149	C	N1-C6	-8.60	1.31	1.37
35	BB	426	C	N1-C6	8.60	1.42	1.37
1	AA	1493	A	N9-C4	-8.60	1.32	1.37
35	BB	480	A	C1'-N9	8.60	1.61	1.48
35	BB	1154	G	C2-N2	-8.60	1.25	1.34
34	BA	62	C	C2'-C1'	-8.60	1.43	1.53
35	BB	586	A	N9-C4	8.60	1.43	1.37
35	BB	835	C	C4-C5	8.60	1.49	1.43
1	AA	66	A	C6-N6	8.59	1.40	1.33
1	AA	1136	C	C5-C6	8.59	1.41	1.34
35	BB	1948	G	C6-N1	8.59	1.45	1.39
1	AA	1166	G	C6-N1	8.59	1.45	1.39
35	BB	1423	G	N7-C5	-8.59	1.34	1.39
35	BB	2095	A	C6-N6	8.59	1.40	1.33
35	BB	1778	U	C2-N3	8.59	1.43	1.37
1	AA	182	A	N7-C5	-8.59	1.34	1.39
35	BB	682	G	N9-C4	-8.59	1.31	1.38
35	BB	1285	A	C6-N1	8.59	1.41	1.35
35	BB	1441	G	C6-N1	8.59	1.45	1.39
35	BB	2178	C	N1-C6	8.59	1.42	1.37
35	BB	2881	U	P-O5'	-8.59	1.51	1.59
1	AA	1276	G	C2'-C1'	-8.58	1.44	1.53
35	BB	1738	G	C3'-C2'	8.58	1.62	1.52
1	AA	829	G	C4'-O4'	8.58	1.56	1.45
35	BB	502	A	N9-C4	-8.58	1.32	1.37
1	AA	684	U	N1-C6	8.58	1.45	1.38
1	AA	1421	G	C5-C4	8.58	1.44	1.38
35	BB	123	G	N1-C2	8.58	1.44	1.37
1	AA	791	G	C2-N3	8.58	1.39	1.32
1	AA	1146	A	C8-N7	-8.58	1.25	1.31
35	BB	167	A	C6-N1	8.58	1.41	1.35
35	BB	1077	A	N7-C5	-8.58	1.34	1.39
35	BB	1473	G	C2'-C1'	-8.58	1.44	1.53
35	BB	2618	G	N7-C5	-8.58	1.34	1.39
35	BB	1537	G	N3-C4	8.58	1.41	1.35
1	AA	1263	C	C5'-C4'	8.57	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	89	A	N7-C5	-8.57	1.34	1.39
1	AA	87	C	N3-C4	8.57	1.40	1.33
35	BB	697	G	C8-N7	-8.57	1.25	1.30
35	BB	1248	G	N1-C2	8.57	1.44	1.37
1	AA	1225	A	P-O5'	-8.57	1.51	1.59
35	BB	608	A	C6-N6	8.57	1.40	1.33
35	BB	1220	G	N7-C5	-8.57	1.34	1.39
35	BB	1421	G	N7-C5	-8.57	1.34	1.39
35	BB	970	U	C5'-C4'	8.56	1.61	1.51
35	BB	966	G	O4'-C1'	8.56	1.52	1.41
35	BB	1570	A	C6-N6	8.56	1.40	1.33
1	AA	919	A	C6-N6	8.56	1.40	1.33
1	AA	1004	A	N7-C5	-8.56	1.34	1.39
35	BB	1031	G	C6-N1	8.56	1.45	1.39
35	BB	1100	C	N1-C6	-8.56	1.32	1.37
1	AA	1063	C	N3-C4	8.56	1.40	1.33
35	BB	1086	A	C6-N6	8.56	1.40	1.33
35	BB	1263	U	C4-C5	-8.56	1.35	1.43
1	AA	66	A	N3-C4	8.56	1.40	1.34
35	BB	2153	C	N3-C4	8.56	1.40	1.33
35	BB	302	C	N3-C4	8.55	1.40	1.33
35	BB	2051	A	C4'-C3'	-8.55	1.43	1.53
1	AA	750	C	N3-C4	8.55	1.40	1.33
1	AA	877	G	C2-N3	8.55	1.39	1.32
35	BB	1954	G	C5'-C4'	8.55	1.61	1.51
35	BB	2469	A	N3-C4	-8.55	1.29	1.34
35	BB	1713	A	N3-C4	-8.55	1.29	1.34
1	AA	449	G	C6-N1	8.54	1.45	1.39
35	BB	280	U	C2'-C1'	-8.55	1.44	1.53
35	BB	852	U	C2-N3	8.55	1.43	1.37
1	AA	1509	C	N1-C6	8.54	1.42	1.37
34	BA	51	G	C6-N1	8.54	1.45	1.39
35	BB	722	A	C6-N1	8.54	1.41	1.35
35	BB	58	G	C2-N3	8.54	1.39	1.32
35	BB	2879	A	C2'-C1'	-8.54	1.44	1.53
35	BB	2396	G	N1-C2	8.54	1.44	1.37
35	BB	2775	G	C5-C4	8.54	1.44	1.38
1	AA	143	A	C6-N6	8.54	1.40	1.33
35	BB	2663	G	C2'-C1'	-8.54	1.44	1.53
1	AA	1164	G	C8-N7	-8.54	1.25	1.30
35	BB	2283	C	C4-N4	8.53	1.41	1.33
1	AA	902	G	N1-C2	8.53	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	586	A	N3-C4	-8.53	1.29	1.34
35	BB	119	A	C4'-C3'	8.53	1.62	1.53
35	BB	423	A	P-O5'	-8.53	1.51	1.59
35	BB	1067	A	N9-C4	8.53	1.43	1.37
35	BB	2797	U	C5'-C4'	8.53	1.61	1.51
35	BB	1807	G	C6-N1	8.52	1.45	1.39
35	BB	2561	U	C5'-C4'	8.52	1.61	1.51
1	AA	168	G	C5-C4	8.52	1.44	1.38
1	AA	349	A	C5'-C4'	8.52	1.61	1.51
1	AA	887	G	C6-N1	8.52	1.45	1.39
35	BB	1650	A	C6-N1	8.52	1.41	1.35
35	BB	2837	A	C8-N7	-8.52	1.25	1.31
1	AA	1143	G	N9-C8	8.52	1.43	1.37
35	BB	1822	C	N3-C4	8.52	1.40	1.33
35	BB	2225	A	N3-C4	-8.52	1.29	1.34
35	BB	2322	A	N3-C4	-8.52	1.29	1.34
1	AA	1346	A	N7-C5	-8.52	1.34	1.39
35	BB	649	G	N9-C4	-8.52	1.31	1.38
1	AA	1113	C	N3-C4	8.52	1.40	1.33
1	AA	1130	A	N7-C5	-8.52	1.34	1.39
35	BB	1464	G	C4'-C3'	8.52	1.62	1.53
35	BB	2240	U	C4-C5	8.52	1.51	1.43
1	AA	1332	A	C6-N1	8.51	1.41	1.35
34	BA	36	C	C5-C6	-8.51	1.27	1.34
35	BB	2255	G	C6-N1	8.51	1.45	1.39
35	BB	1607	C	C2-N3	8.51	1.42	1.35
35	BB	1408	G	C5'-C4'	8.51	1.61	1.51
35	BB	1809	A	N9-C4	8.51	1.43	1.37
1	AA	1005	A	C8-N7	-8.51	1.25	1.31
1	AA	1382	C	P-O5'	-8.51	1.51	1.59
35	BB	1403	A	N7-C5	-8.51	1.34	1.39
35	BB	2683	C	N1-C2	8.51	1.48	1.40
35	BB	2802	G	C8-N7	-8.51	1.25	1.30
35	BB	728	G	N1-C2	8.51	1.44	1.37
1	AA	181	A	N9-C4	-8.50	1.32	1.37
1	AA	183	C	C4-N4	8.50	1.41	1.33
1	AA	584	G	C8-N7	-8.50	1.25	1.30
35	BB	258	G	N1-C2	8.50	1.44	1.37
35	BB	1716	U	O3'-P	-8.50	1.50	1.61
35	BB	288	U	C2'-C1'	-8.50	1.44	1.53
1	AA	38	G	C5-C4	8.50	1.44	1.38
1	AA	490	C	C4-C5	-8.50	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1223	C	C4-N4	8.50	1.41	1.33
1	AA	1482	G	C2'-C1'	-8.50	1.44	1.53
1	AA	1483	A	C6-N6	8.50	1.40	1.33
35	BB	1367	A	N3-C4	-8.50	1.29	1.34
1	AA	107	G	N7-C5	-8.49	1.34	1.39
1	AA	1127	G	N7-C5	-8.49	1.34	1.39
35	BB	844	A	P-O5'	-8.49	1.51	1.59
35	BB	1891	G	N9-C4	-8.49	1.31	1.38
1	AA	25	C	C3'-C2'	8.49	1.62	1.52
1	AA	1081	A	N7-C5	-8.49	1.34	1.39
35	BB	1175	A	N3-C4	-8.49	1.29	1.34
35	BB	2657	A	N9-C8	-8.49	1.30	1.37
1	AA	945	G	N7-C5	-8.49	1.34	1.39
1	AA	464	U	C2-N3	8.49	1.43	1.37
1	AA	470	C	C4-N4	8.49	1.41	1.33
1	AA	835	U	C4'-C3'	8.49	1.62	1.53
35	BB	276	U	N1-C6	-8.49	1.30	1.38
35	BB	684	G	C2-N2	8.49	1.43	1.34
35	BB	2103	C	N3-C4	8.49	1.39	1.33
35	BB	2238	G	N1-C2	8.49	1.44	1.37
1	AA	1518	A	N7-C5	-8.49	1.34	1.39
35	BB	723	C	C2'-C1'	-8.49	1.44	1.53
1	AA	159	G	P-O5'	-8.48	1.51	1.59
1	AA	620	C	P-O5'	-8.48	1.51	1.59
1	AA	1056	U	C5-C6	8.48	1.41	1.34
1	AA	1371	G	C6-N1	-8.48	1.33	1.39
1	AA	1382	C	C4-N4	8.48	1.41	1.33
35	BB	457	A	C2'-C1'	-8.48	1.44	1.53
35	BB	1027	A	C8-N7	-8.48	1.25	1.31
35	BB	1965	C	C4-C5	8.48	1.49	1.43
35	BB	2162	G	C8-N7	8.48	1.36	1.30
35	BB	1898	U	C5'-C4'	8.48	1.61	1.51
1	AA	132	C	N3-C4	8.48	1.39	1.33
35	BB	2877	G	N3-C4	-8.48	1.29	1.35
1	AA	1035	A	N7-C5	-8.48	1.34	1.39
1	AA	1404	C	N1-C6	8.48	1.42	1.37
35	BB	1650	A	N9-C4	8.48	1.43	1.37
35	BB	2661	G	C6-N1	8.48	1.45	1.39
35	BB	2747	G	P-O5'	-8.48	1.51	1.59
1	AA	124	C	N1-C6	8.48	1.42	1.37
1	AA	1459	G	C5-C4	-8.48	1.32	1.38
35	BB	312	G	C8-N7	-8.48	1.25	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	437	U	C2-N3	8.48	1.43	1.37
35	BB	649	G	P-O5'	-8.48	1.51	1.59
35	BB	750	A	N7-C5	-8.48	1.34	1.39
35	BB	1557	C	O3'-P	-8.48	1.50	1.61
35	BB	2143	C	O3'-P	-8.48	1.50	1.61
1	AA	1297	G	C2-N3	8.48	1.39	1.32
35	BB	1003	G	C6-N1	8.48	1.45	1.39
35	BB	1138	G	C2-N3	8.48	1.39	1.32
1	AA	718	A	C6-N6	8.47	1.40	1.33
35	BB	1547	C	N3-C4	8.47	1.39	1.33
35	BB	2411	A	C2'-C1'	-8.47	1.44	1.53
1	AA	251	G	C6-N1	8.47	1.45	1.39
1	AA	1392	G	N1-C2	8.47	1.44	1.37
1	AA	1491	G	C4'-O4'	-8.47	1.34	1.45
1	AA	824	G	N1-C2	8.47	1.44	1.37
35	BB	926	G	C6-N1	8.47	1.45	1.39
35	BB	1066	U	O3'-P	-8.47	1.50	1.61
35	BB	1619	G	N9-C8	8.47	1.43	1.37
35	BB	1747	U	P-O5'	-8.47	1.51	1.59
35	BB	1937	A	C6-N6	8.47	1.40	1.33
35	BB	2001	C	P-O5'	-8.47	1.51	1.59
35	BB	2058	A	C6-N1	8.47	1.41	1.35
1	AA	1173	U	C2-N3	8.47	1.43	1.37
35	BB	147	C	N3-C4	8.47	1.39	1.33
35	BB	764	A	N9-C4	-8.47	1.32	1.37
35	BB	1934	C	N3-C4	8.47	1.39	1.33
1	AA	946	A	N9-C4	-8.47	1.32	1.37
35	BB	2242	G	N9-C8	8.47	1.43	1.37
1	AA	58	C	N3-C4	8.46	1.39	1.33
1	AA	327	A	N9-C4	-8.46	1.32	1.37
1	AA	718	A	C2'-C1'	-8.46	1.44	1.53
1	AA	1464	U	C4'-C3'	8.46	1.62	1.53
35	BB	1397	U	C4-C5	-8.46	1.35	1.43
1	AA	728	A	C6-N6	8.46	1.40	1.33
35	BB	425	G	C6-N1	8.46	1.45	1.39
35	BB	478	A	C6-N6	8.46	1.40	1.33
1	AA	710	G	N7-C5	-8.46	1.34	1.39
1	AA	549	C	N3-C4	8.46	1.39	1.33
1	AA	871	U	C3'-O3'	8.46	1.53	1.42
34	BA	117	G	O3'-P	-8.46	1.51	1.61
35	BB	309	A	C8-N7	8.46	1.37	1.31
35	BB	400	G	C2-N3	8.46	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	628	G	N7-C5	-8.46	1.34	1.39
35	BB	1084	A	C6-N6	8.46	1.40	1.33
35	BB	1756	G	C5-C4	-8.45	1.32	1.38
35	BB	1888	G	C6-N1	-8.45	1.33	1.39
1	AA	61	G	C8-N7	-8.45	1.25	1.30
1	AA	937	A	C6-N6	8.45	1.40	1.33
23	AX	19	A	C6-N1	8.45	1.41	1.35
1	AA	315	A	C6-N1	8.45	1.41	1.35
35	BB	204	A	N9-C4	-8.45	1.32	1.37
1	AA	208	U	C2-N3	8.44	1.43	1.37
1	AA	1117	A	N9-C4	8.45	1.43	1.37
35	BB	1930	G	C6-N1	8.45	1.45	1.39
35	BB	891	G	C2-N3	8.44	1.39	1.32
1	AA	289	G	N7-C5	8.44	1.44	1.39
1	AA	293	G	C8-N7	-8.44	1.25	1.30
1	AA	363	A	C6-N1	8.44	1.41	1.35
1	AA	604	G	C8-N7	8.44	1.36	1.30
1	AA	733	G	C6-N1	8.44	1.45	1.39
35	BB	213	A	C6-N1	8.44	1.41	1.35
35	BB	855	G	N9-C8	-8.44	1.31	1.37
35	BB	1245	G	N7-C5	-8.44	1.34	1.39
35	BB	1478	G	N9-C8	8.44	1.43	1.37
35	BB	2098	U	N1-C2	8.44	1.46	1.38
1	AA	530	G	C5-C4	8.43	1.44	1.38
35	BB	1071	G	C6-N1	8.43	1.45	1.39
35	BB	2239	G	N7-C5	-8.43	1.34	1.39
1	AA	250	A	N9-C4	8.43	1.43	1.37
1	AA	328	C	N1-C2	8.43	1.48	1.40
1	AA	778	G	N7-C5	-8.43	1.34	1.39
1	AA	1254	A	N3-C4	-8.43	1.29	1.34
35	BB	260	G	C8-N7	-8.43	1.25	1.30
35	BB	1008	A	O3'-P	-8.43	1.51	1.61
35	BB	1084	A	C4'-C3'	8.43	1.62	1.53
35	BB	1812	U	P-O5'	-8.43	1.51	1.59
1	AA	1181	G	C2'-C1'	-8.43	1.44	1.53
34	BA	89	U	C2-N3	8.43	1.43	1.37
34	BA	115	A	N3-C4	-8.43	1.29	1.34
35	BB	728	G	N9-C4	-8.43	1.31	1.38
35	BB	2171	A	C4'-C3'	8.43	1.62	1.53
35	BB	1246	A	N7-C5	-8.42	1.34	1.39
1	AA	859	G	C6-N1	8.42	1.45	1.39
35	BB	1731	G	O3'-P	-8.42	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	144	G	C5-C4	8.42	1.44	1.38
35	BB	1423	G	C5-C4	8.42	1.44	1.38
1	AA	110	C	C2-N3	8.41	1.42	1.35
9	AI	40	ARG	CZ-NH2	8.41	1.44	1.33
35	BB	122	G	N3-C4	-8.41	1.29	1.35
35	BB	1008	A	N1-C2	8.41	1.42	1.34
35	BB	2252	G	N3-C4	-8.41	1.29	1.35
35	BB	2434	A	C6-N1	8.41	1.41	1.35
35	BB	2749	A	C6-N6	8.41	1.40	1.33
1	AA	829	G	O3'-P	-8.41	1.51	1.61
1	AA	1204	A	C4'-C3'	-8.41	1.44	1.53
35	BB	327	G	N1-C2	8.41	1.44	1.37
35	BB	611	C	C5-C6	8.41	1.41	1.34
35	BB	1749	A	C5-C4	8.41	1.44	1.38
35	BB	2703	C	N1-C6	8.41	1.42	1.37
1	AA	902	G	N9-C8	8.41	1.43	1.37
35	BB	1552	A	N7-C5	-8.41	1.34	1.39
1	AA	226	G	C8-N7	-8.41	1.25	1.30
1	AA	1353	G	N3-C4	8.41	1.41	1.35
1	AA	1434	A	N3-C4	8.41	1.39	1.34
1	AA	1278	G	C8-N7	-8.40	1.25	1.30
35	BB	2824	C	C2-O2	8.40	1.32	1.24
1	AA	608	A	C8-N7	-8.40	1.25	1.31
35	BB	1654	A	C6-N6	8.40	1.40	1.33
1	AA	168	G	N1-C2	8.40	1.44	1.37
1	AA	1427	C	C2-N3	8.40	1.42	1.35
35	BB	806	C	C2-N3	8.40	1.42	1.35
51	BR	79	ARG	NE-CZ	8.40	1.44	1.33
35	BB	1227	G	C2-N2	8.40	1.43	1.34
35	BB	2567	G	N7-C5	-8.40	1.34	1.39
35	BB	2657	A	C6-N1	8.39	1.41	1.35
1	AA	1177	G	C5-C4	8.39	1.44	1.38
35	BB	775	G	C2-N3	8.39	1.39	1.32
35	BB	1464	G	N7-C5	-8.39	1.34	1.39
35	BB	1266	G	C6-N1	8.39	1.45	1.39
1	AA	242	G	C5-C4	8.39	1.44	1.38
1	AA	1299	A	N7-C5	-8.39	1.34	1.39
35	BB	1431	A	C2'-C1'	-8.39	1.44	1.53
35	BB	2850	A	N7-C5	8.39	1.44	1.39
35	BB	954	G	N7-C5	-8.38	1.34	1.39
35	BB	966	G	C3'-O3'	-8.39	1.30	1.42
35	BB	1464	G	C8-N7	-8.38	1.25	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1535	A	N3-C4	-8.38	1.29	1.34
35	BB	1636	U	C2'-C1'	-8.39	1.44	1.53
50	BQ	27	ARG	CD-NE	8.38	1.60	1.46
35	BB	1013	C	C2-N3	8.38	1.42	1.35
1	AA	32	A	N3-C4	8.38	1.39	1.34
35	BB	2701	U	C4-C5	8.38	1.51	1.43
1	AA	838	G	P-O5'	-8.38	1.51	1.59
35	BB	580	U	C2-N3	8.38	1.43	1.37
35	BB	1360	G	N1-C2	8.38	1.44	1.37
35	BB	1764	C	P-O5'	8.38	1.68	1.59
35	BB	2109	U	O3'-P	-8.38	1.51	1.61
1	AA	1329	A	C2'-C1'	-8.38	1.44	1.53
35	BB	50	U	O3'-P	-8.38	1.51	1.61
35	BB	523	C	C4-N4	8.38	1.41	1.33
35	BB	2221	G	C2-N3	8.38	1.39	1.32
35	BB	639	U	C2-N3	8.38	1.43	1.37
35	BB	2800	A	N7-C5	-8.38	1.34	1.39
35	BB	210	C	N3-C4	8.38	1.39	1.33
1	AA	48	C	C3'-C2'	-8.37	1.43	1.52
1	AA	501	C	C2-N3	8.38	1.42	1.35
35	BB	348	A	C5'-C4'	8.38	1.61	1.51
35	BB	1247	A	C6-N1	8.38	1.41	1.35
35	BB	2224	G	N7-C5	-8.38	1.34	1.39
1	AA	500	G	C6-N1	8.37	1.45	1.39
1	AA	860	A	C6-N1	8.37	1.41	1.35
35	BB	201	C	C4-N4	8.37	1.41	1.33
35	BB	561	G	O3'-P	-8.37	1.51	1.61
35	BB	980	A	C2-N3	8.37	1.41	1.33
35	BB	1187	G	C2-N2	8.37	1.43	1.34
35	BB	1260	A	O3'-P	-8.37	1.51	1.61
35	BB	1854	A	N7-C5	-8.37	1.34	1.39
35	BB	681	G	O3'-P	-8.37	1.51	1.61
8	AH	12	ARG	CZ-NH1	8.37	1.44	1.33
35	BB	169	G	N1-C2	8.37	1.44	1.37
35	BB	1033	U	C5'-C4'	8.37	1.61	1.51
1	AA	66	A	N7-C5	-8.37	1.34	1.39
1	AA	251	G	N7-C5	-8.37	1.34	1.39
1	AA	1173	U	N3-C4	8.37	1.46	1.38
35	BB	528	A	N7-C5	-8.37	1.34	1.39
1	AA	1512	U	C2-N3	8.36	1.43	1.37
35	BB	1565	C	C4-N4	8.36	1.41	1.33
35	BB	2142	A	C5-C4	8.36	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	229	C	P-O5'	-8.36	1.51	1.59
35	BB	1133	A	O3'-P	-8.36	1.51	1.61
35	BB	1329	U	C2-N3	8.36	1.43	1.37
35	BB	2882	A	C6-N6	8.36	1.40	1.33
35	BB	866	A	N3-C4	-8.36	1.29	1.34
1	AA	122	G	C8-N7	-8.36	1.25	1.30
1	AA	582	C	P-O5'	-8.36	1.51	1.59
35	BB	17	G	C5-C4	-8.36	1.32	1.38
1	AA	1110	A	C6-N1	8.35	1.41	1.35
35	BB	974	G	N3-C4	-8.35	1.29	1.35
1	AA	582	C	N1-C6	-8.35	1.32	1.37
35	BB	2709	G	N1-C2	8.35	1.44	1.37
35	BB	626	A	N9-C4	-8.35	1.32	1.37
35	BB	2246	G	N7-C5	-8.35	1.34	1.39
1	AA	1117	A	N9-C8	-8.35	1.31	1.37
35	BB	892	A	C5-C4	8.35	1.44	1.38
35	BB	1754	A	O3'-P	-8.35	1.51	1.61
35	BB	2507	C	P-O5'	-8.35	1.51	1.59
1	AA	1251	A	N9-C4	8.35	1.42	1.37
34	BA	105	G	O3'-P	-8.35	1.51	1.61
35	BB	905	A	C6-N1	8.35	1.41	1.35
35	BB	449	A	N9-C4	-8.35	1.32	1.37
35	BB	951	C	O4'-C1'	8.35	1.52	1.41
35	BB	2377	A	P-O5'	-8.35	1.51	1.59
35	BB	1504	A	N3-C4	-8.34	1.29	1.34
35	BB	2347	C	N1-C6	8.34	1.42	1.37
35	BB	2026	U	C2-N3	8.34	1.43	1.37
35	BB	2497	A	N1-C2	8.34	1.41	1.34
35	BB	2831	G	C6-N1	8.34	1.45	1.39
35	BB	1658	C	C4-C5	8.34	1.49	1.43
1	AA	72	A	C6-N6	8.34	1.40	1.33
1	AA	196	A	C6-N1	8.34	1.41	1.35
1	AA	1513	A	C5-C4	8.34	1.44	1.38
35	BB	68	G	C2-N3	8.34	1.39	1.32
35	BB	629	G	C2-N3	8.34	1.39	1.32
35	BB	993	G	N7-C5	-8.34	1.34	1.39
1	AA	117	G	N9-C8	-8.33	1.32	1.37
1	AA	822	U	C2'-C1'	-8.33	1.44	1.53
1	AA	1258	G	N9-C8	8.33	1.43	1.37
1	AA	716	A	N7-C5	-8.33	1.34	1.39
35	BB	2669	G	N9-C8	8.33	1.43	1.37
35	BB	1825	U	N1-C2	8.33	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2685	G	C5-C4	8.33	1.44	1.38
35	BB	812	C	C4-C5	8.33	1.49	1.43
1	AA	497	G	N7-C5	-8.33	1.34	1.39
35	BB	956	G	N7-C5	-8.33	1.34	1.39
35	BB	1175	A	P-O5'	8.33	1.68	1.59
35	BB	1248	G	N9-C8	-8.33	1.32	1.37
35	BB	1604	C	N3-C4	8.32	1.39	1.33
1	AA	993	G	N7-C5	-8.32	1.34	1.39
35	BB	718	A	C2'-C1'	-8.32	1.44	1.53
35	BB	1732	C	C4-N4	8.32	1.41	1.33
35	BB	1543	G	C2-N3	8.32	1.39	1.32
35	BB	517	C	N3-C4	8.32	1.39	1.33
35	BB	1408	G	N1-C2	8.32	1.44	1.37
35	BB	1758	U	C3'-O3'	8.32	1.53	1.42
35	BB	2173	A	N7-C5	-8.32	1.34	1.39
35	BB	2759	G	C6-N1	8.32	1.45	1.39
1	AA	1251	A	C6-N6	8.32	1.40	1.33
35	BB	2482	A	N7-C5	-8.32	1.34	1.39
1	AA	574	A	N7-C5	-8.31	1.34	1.39
35	BB	124	G	N1-C2	8.31	1.44	1.37
35	BB	1272	A	C6-N1	8.31	1.41	1.35
35	BB	2230	G	N7-C5	8.31	1.44	1.39
35	BB	1770	G	N9-C4	-8.31	1.31	1.38
35	BB	1838	C	P-O5'	-8.31	1.51	1.59
1	AA	104	G	N3-C4	8.31	1.41	1.35
1	AA	259	G	N9-C4	-8.31	1.31	1.38
1	AA	487	A	N7-C5	-8.31	1.34	1.39
1	AA	1355	G	P-O5'	-8.31	1.51	1.59
35	BB	1566	A	C4'-C3'	8.31	1.62	1.53
35	BB	2303	G	N9-C4	-8.31	1.31	1.38
1	AA	1150	A	N9-C8	8.31	1.44	1.37
1	AA	1099	G	C2-N3	8.31	1.39	1.32
1	AA	1204	A	C2'-C1'	-8.31	1.44	1.53
1	AA	238	A	N7-C5	-8.30	1.34	1.39
1	AA	832	G	C5-C4	-8.31	1.32	1.38
1	AA	1508	A	N3-C4	-8.31	1.29	1.34
35	BB	468	G	N1-C2	8.31	1.44	1.37
35	BB	2328	A	N7-C5	-8.31	1.34	1.39
1	AA	359	G	N7-C5	-8.30	1.34	1.39
35	BB	789	A	N7-C5	-8.30	1.34	1.39
35	BB	1907	G	C2-N3	8.30	1.39	1.32
35	BB	1966	A	P-O5'	-8.30	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2154	A	O3'-P	-8.30	1.51	1.61
35	BB	2732	G	N7-C5	8.30	1.44	1.39
35	BB	1253	A	N7-C5	-8.30	1.34	1.39
35	BB	1641	A	N9-C4	-8.30	1.32	1.37
1	AA	79	G	C3'-C2'	8.30	1.62	1.52
1	AA	668	G	N9-C8	8.30	1.43	1.37
1	AA	721	G	C5'-C4'	8.30	1.61	1.51
1	AA	886	G	C5-C4	8.30	1.44	1.38
35	BB	217	A	C8-N7	-8.30	1.25	1.31
34	BA	63	C	C4-N4	8.30	1.41	1.33
1	AA	1425	U	C2'-C1'	-8.30	1.44	1.53
35	BB	1089	A	C6-N6	8.30	1.40	1.33
1	AA	702	A	P-O5'	-8.30	1.51	1.59
34	BA	20	G	C8-N7	8.30	1.35	1.30
35	BB	55	G	N1-C2	8.30	1.44	1.37
35	BB	847	U	C2'-C1'	-8.30	1.44	1.53
35	BB	932	U	P-O5'	-8.30	1.51	1.59
35	BB	2445	G	C6-N1	8.30	1.45	1.39
46	BM	10	ARG	CZ-NH2	8.30	1.43	1.33
35	BB	2155	U	C5-C6	8.30	1.41	1.34
1	AA	1385	G	N3-C4	-8.29	1.29	1.35
35	BB	100	U	N1-C6	8.29	1.45	1.38
35	BB	954	G	C8-N7	-8.29	1.25	1.30
35	BB	1476	U	C2-N3	8.29	1.43	1.37
1	AA	929	G	N9-C8	8.29	1.43	1.37
35	BB	2133	G	C2-N3	8.29	1.39	1.32
1	AA	1034	G	N1-C2	8.29	1.44	1.37
35	BB	118	A	N7-C5	-8.29	1.34	1.39
35	BB	142	A	N3-C4	-8.29	1.29	1.34
35	BB	980	A	N3-C4	-8.29	1.29	1.34
35	BB	2134	A	N3-C4	-8.28	1.29	1.34
1	AA	517	G	C6-N1	8.28	1.45	1.39
35	BB	899	A	N7-C5	-8.28	1.34	1.39
35	BB	461	C	O3'-P	-8.28	1.51	1.61
1	AA	1277	C	N1-C6	8.28	1.42	1.37
35	BB	341	C	N1-C6	-8.28	1.32	1.37
35	BB	799	G	C5'-C4'	8.28	1.61	1.51
1	AA	105	G	C2-N2	8.27	1.42	1.34
1	AA	481	G	C2-N3	8.27	1.39	1.32
1	AA	1185	G	N7-C5	-8.27	1.34	1.39
35	BB	36	G	N3-C4	8.27	1.41	1.35
35	BB	471	A	N3-C4	-8.27	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	358	U	N3-C4	8.27	1.45	1.38
35	BB	2167	U	N3-C4	8.27	1.45	1.38
35	BB	2632	A	C1'-N9	-8.27	1.35	1.46
36	BC	261	ARG	CZ-NH1	8.27	1.43	1.33
35	BB	2842	G	C4'-C3'	8.27	1.62	1.53
35	BB	2900	A	N9-C4	-8.27	1.32	1.37
1	AA	858	G	C5-C6	-8.27	1.34	1.42
1	AA	1518	A	C8-N7	-8.27	1.25	1.31
35	BB	574	A	C6-N6	8.27	1.40	1.33
35	BB	371	A	C5-C4	8.27	1.44	1.38
35	BB	1542	U	O4'-C1'	-8.27	1.30	1.41
35	BB	2828	G	N1-C2	8.27	1.44	1.37
1	AA	413	G	N7-C5	-8.27	1.34	1.39
1	AA	709	U	C2-N3	8.27	1.43	1.37
1	AA	1387	G	C5-C4	-8.27	1.32	1.38
34	BA	10	G	N9-C8	8.27	1.43	1.37
35	BB	223	A	O3'-P	-8.27	1.51	1.61
35	BB	969	G	N9-C4	8.27	1.44	1.38
1	AA	1206	G	N9-C4	8.26	1.44	1.38
35	BB	57	C	N1-C2	8.26	1.48	1.40
35	BB	494	G	C2-N3	8.26	1.39	1.32
35	BB	831	G	P-O5'	-8.26	1.51	1.59
35	BB	1515	A	C3'-C2'	-8.26	1.43	1.52
1	AA	96	U	N3-C4	8.26	1.45	1.38
35	BB	690	G	P-O5'	-8.26	1.51	1.59
36	BC	257	ARG	NE-CZ	8.26	1.43	1.33
1	AA	629	A	C2'-C1'	-8.26	1.44	1.53
1	AA	1410	A	N9-C4	-8.26	1.32	1.37
35	BB	2542	A	P-O5'	-8.26	1.51	1.59
35	BB	2624	G	C6-N1	8.26	1.45	1.39
1	AA	110	C	N1-C6	-8.26	1.32	1.37
1	AA	1400	C	C2'-C1'	-8.26	1.44	1.53
1	AA	187	G	C2'-C1'	-8.26	1.44	1.53
1	AA	1504	G	N7-C5	-8.26	1.34	1.39
35	BB	194	G	N7-C5	-8.26	1.34	1.39
35	BB	1516	G	C6-N1	8.26	1.45	1.39
35	BB	2270	A	C2'-C1'	-8.26	1.44	1.53
1	AA	819	A	N9-C4	8.26	1.42	1.37
35	BB	1118	C	C4-C5	8.26	1.49	1.43
1	AA	126	G	C2-N3	8.25	1.39	1.32
1	AA	1009	U	N1-C2	-8.25	1.31	1.38
1	AA	1385	G	N7-C5	-8.25	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2230	G	C6-N1	8.25	1.45	1.39
35	BB	2501	C	N3-C4	8.25	1.39	1.33
1	AA	861	G	N7-C5	-8.25	1.34	1.39
1	AA	1021	A	C6-N1	-8.25	1.29	1.35
35	BB	532	A	N9-C8	-8.25	1.31	1.37
1	AA	1410	A	N9-C8	8.25	1.44	1.37
35	BB	1008	A	N9-C8	-8.25	1.31	1.37
35	BB	2581	G	N7-C5	-8.25	1.34	1.39
35	BB	2625	G	C2-N3	8.25	1.39	1.32
1	AA	731	G	N7-C5	8.25	1.44	1.39
35	BB	753	A	C4'-C3'	-8.25	1.44	1.53
35	BB	1919	A	C6-N6	8.25	1.40	1.33
1	AA	262	A	C6-N1	8.24	1.41	1.35
1	AA	1117	A	C6-N1	8.24	1.41	1.35
35	BB	1297	C	O3'-P	-8.24	1.51	1.61
1	AA	774	G	P-O5'	-8.24	1.51	1.59
1	AA	1423	G	C5-C4	8.24	1.44	1.38
35	BB	917	A	N3-C4	-8.24	1.29	1.34
35	BB	756	A	N3-C4	-8.24	1.29	1.34
1	AA	797	C	C3'-C2'	8.24	1.62	1.52
1	AA	1150	A	N3-C4	8.24	1.39	1.34
1	AA	1296	C	P-O5'	-8.24	1.51	1.59
35	BB	930	G	C6-N1	8.24	1.45	1.39
35	BB	1568	G	C6-N1	8.24	1.45	1.39
35	BB	2131	U	N3-C4	8.24	1.45	1.38
35	BB	2627	G	C5'-C4'	8.24	1.61	1.51
35	BB	525	U	N1-C6	8.23	1.45	1.38
1	AA	999	C	N1-C6	8.23	1.42	1.37
35	BB	726	G	N7-C5	-8.23	1.34	1.39
1	AA	278	G	C5-C6	8.23	1.50	1.42
35	BB	196	A	N9-C8	8.23	1.44	1.37
35	BB	1087	G	C6-N1	8.23	1.45	1.39
35	BB	1	G	C2-N3	8.23	1.39	1.32
35	BB	1065	U	C2-N3	8.23	1.43	1.37
35	BB	1377	G	N7-C5	-8.23	1.34	1.39
35	BB	1961	C	C2-N3	8.23	1.42	1.35
1	AA	1269	A	N9-C8	8.23	1.44	1.37
35	BB	549	G	P-O5'	-8.23	1.51	1.59
35	BB	1398	C	C3'-O3'	8.23	1.53	1.42
1	AA	60	A	C8-N7	-8.23	1.25	1.31
35	BB	1961	C	N3-C4	8.22	1.39	1.33
35	BB	2309	A	C6-N1	8.22	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2440	C	C2'-C1'	-8.22	1.44	1.53
1	AA	528	C	N1-C6	8.22	1.42	1.37
1	AA	1117	A	N3-C4	8.22	1.39	1.34
1	AA	1454	G	N3-C4	-8.22	1.29	1.35
35	BB	1709	U	N3-C4	-8.22	1.31	1.38
1	AA	1392	G	C6-N1	8.22	1.45	1.39
35	BB	1607	C	C4-C5	8.22	1.49	1.43
35	BB	2753	A	N9-C4	-8.22	1.32	1.37
1	AA	424	G	N9-C8	-8.22	1.32	1.37
35	BB	1516	G	C2-N3	8.22	1.39	1.32
1	AA	487	A	C5-C4	8.22	1.44	1.38
1	AA	1379	G	N7-C5	-8.21	1.34	1.39
34	BA	26	C	N3-C4	8.21	1.39	1.33
35	BB	1532	A	N3-C4	-8.21	1.29	1.34
1	AA	52	C	N3-C4	8.21	1.39	1.33
1	AA	206	C	N3-C4	8.21	1.39	1.33
1	AA	1320	C	N3-C4	-8.21	1.28	1.33
1	AA	1445	U	C2'-C1'	-8.21	1.44	1.53
35	BB	53	A	C2-N3	8.21	1.41	1.33
35	BB	806	C	N1-C6	8.21	1.42	1.37
35	BB	954	G	N9-C4	-8.21	1.31	1.38
35	BB	1489	C	C5'-C4'	8.21	1.61	1.51
35	BB	1821	A	C8-N7	8.21	1.37	1.31
35	BB	2351	G	N7-C5	-8.21	1.34	1.39
1	AA	433	G	N9-C8	8.21	1.43	1.37
1	AA	568	G	C2'-C1'	-8.21	1.44	1.53
1	AA	777	A	N1-C2	8.21	1.41	1.34
35	BB	2421	G	N7-C5	-8.21	1.34	1.39
1	AA	982	U	C2'-C1'	-8.21	1.44	1.53
35	BB	706	A	N1-C2	8.21	1.41	1.34
35	BB	1183	U	C4'-O4'	-8.21	1.34	1.45
35	BB	1331	G	C2-N2	8.21	1.42	1.34
35	BB	261	G	P-O5'	-8.21	1.51	1.59
35	BB	884	U	C2-N3	8.21	1.43	1.37
1	AA	1462	C	C4'-C3'	8.20	1.62	1.53
35	BB	194	G	N1-C2	8.20	1.44	1.37
35	BB	340	A	C6-N1	8.20	1.41	1.35
35	BB	674	G	N7-C5	-8.20	1.34	1.39
35	BB	920	A	C8-N7	-8.20	1.25	1.31
35	BB	956	G	C2-N3	8.20	1.39	1.32
35	BB	965	C	C4-C5	8.20	1.49	1.43
35	BB	1901	A	N7-C5	8.20	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2497	A	P-O5'	-8.20	1.51	1.59
35	BB	266	G	N1-C2	8.20	1.44	1.37
35	BB	1437	C	N1-C6	-8.20	1.32	1.37
35	BB	1571	A	C8-N7	-8.20	1.25	1.31
1	AA	146	G	N9-C8	8.20	1.43	1.37
35	BB	514	A	C6-N1	8.20	1.41	1.35
35	BB	519	U	C4-C5	8.20	1.50	1.43
35	BB	2670	A	C4'-O4'	8.20	1.56	1.45
1	AA	968	A	C5'-C4'	8.20	1.61	1.51
1	AA	1518	A	N9-C4	-8.20	1.32	1.37
34	BA	5	U	N3-C4	8.20	1.45	1.38
35	BB	570	G	C5'-C4'	8.20	1.61	1.51
35	BB	1235	G	C6-N1	8.20	1.45	1.39
35	BB	1283	G	C2-N3	8.20	1.39	1.32
35	BB	368	A	C8-N7	-8.19	1.25	1.31
1	AA	131	A	C6-N6	8.19	1.40	1.33
1	AA	136	C	C3'-C2'	-8.19	1.43	1.52
1	AA	919	A	N3-C4	-8.19	1.29	1.34
35	BB	1469	A	C6-N6	8.19	1.40	1.33
1	AA	985	C	C4-N4	8.19	1.41	1.33
1	AA	1349	A	N1-C2	-8.19	1.26	1.34
1	AA	1365	G	N1-C2	8.19	1.44	1.37
35	BB	13	A	C6-N6	8.19	1.40	1.33
1	AA	638	U	C2-N3	8.19	1.43	1.37
35	BB	677	A	N9-C4	-8.19	1.32	1.37
35	BB	2444	G	N7-C5	8.19	1.44	1.39
1	AA	1234	C	N3-C4	8.19	1.39	1.33
35	BB	998	C	C2'-C1'	-8.19	1.44	1.53
1	AA	530	G	C6-N1	8.19	1.45	1.39
1	AA	1174	G	C6-N1	8.19	1.45	1.39
35	BB	1308	A	C6-N1	8.19	1.41	1.35
35	BB	1699	G	N1-C2	8.19	1.44	1.37
35	BB	1678	A	C6-N6	8.19	1.40	1.33
35	BB	2035	G	N7-C5	-8.19	1.34	1.39
1	AA	703	G	N7-C5	-8.18	1.34	1.39
1	AA	1300	G	C2'-C1'	-8.18	1.44	1.53
1	AA	821	G	C2-N3	8.18	1.39	1.32
34	BA	75	G	N9-C8	8.18	1.43	1.37
35	BB	1702	G	C5-C4	8.18	1.44	1.38
35	BB	2169	A	N7-C5	-8.18	1.34	1.39
35	BB	868	U	C4-C5	8.18	1.50	1.43
1	AA	688	G	C5-C4	-8.18	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1114	C	C2'-C1'	-8.18	1.44	1.53
35	BB	1808	A	C4'-C3'	8.18	1.62	1.53
1	AA	920	U	C5'-C4'	8.18	1.61	1.51
1	AA	1035	A	N9-C4	-8.18	1.32	1.37
1	AA	1378	C	P-O5'	-8.18	1.51	1.59
1	AA	1493	A	N7-C5	-8.18	1.34	1.39
35	BB	608	A	N7-C5	-8.18	1.34	1.39
35	BB	622	G	O3'-P	-8.18	1.51	1.61
35	BB	2035	G	C1'-N9	-8.18	1.35	1.46
1	AA	158	G	N7-C5	-8.17	1.34	1.39
1	AA	780	A	N7-C5	-8.17	1.34	1.39
35	BB	1443	U	C2-N3	8.17	1.43	1.37
1	AA	1013	G	N9-C8	-8.17	1.32	1.37
35	BB	2803	G	N7-C5	-8.17	1.34	1.39
1	AA	453	G	N1-C2	8.17	1.44	1.37
1	AA	475	C	C4-N4	8.17	1.41	1.33
35	BB	556	A	P-O5'	-8.17	1.51	1.59
1	AA	392	C	C4'-C3'	8.17	1.62	1.53
35	BB	121	G	N9-C4	8.17	1.44	1.38
35	BB	864	G	C2-N3	8.17	1.39	1.32
1	AA	1362	A	C2'-C1'	-8.17	1.44	1.53
35	BB	695	G	N7-C5	-8.17	1.34	1.39
35	BB	1324	G	N9-C4	8.17	1.44	1.38
1	AA	410	G	C5-C4	-8.16	1.32	1.38
1	AA	772	U	C4-C5	8.16	1.50	1.43
1	AA	944	G	N1-C2	8.16	1.44	1.37
35	BB	2184	A	C6-N6	8.16	1.40	1.33
35	BB	2597	G	C2-N3	8.16	1.39	1.32
1	AA	682	G	N9-C8	8.16	1.43	1.37
35	BB	713	G	C2-N3	8.16	1.39	1.32
35	BB	1862	G	C2-N3	8.16	1.39	1.32
35	BB	2725	A	P-O5'	-8.16	1.51	1.59
1	AA	274	A	N9-C4	8.16	1.42	1.37
1	AA	1140	C	O4'-C1'	8.16	1.52	1.41
1	AA	1511	G	C2-N3	8.16	1.39	1.32
35	BB	37	C	N1-C6	8.16	1.42	1.37
35	BB	2147	A	N9-C4	-8.16	1.32	1.37
35	BB	387	U	C2-N3	8.16	1.43	1.37
35	BB	2759	G	C2-N2	8.16	1.42	1.34
1	AA	968	A	C6-N1	8.16	1.41	1.35
1	AA	998	C	P-O5'	-8.16	1.51	1.59
34	BA	107	G	N3-C4	8.16	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1382	G	N9-C4	-8.16	1.31	1.38
35	BB	1491	G	N1-C2	8.16	1.44	1.37
35	BB	1689	A	N7-C5	-8.16	1.34	1.39
35	BB	1817	G	N9-C4	-8.16	1.31	1.38
35	BB	1935	G	C8-N7	8.16	1.35	1.30
35	BB	2126	A	C6-N6	8.16	1.40	1.33
1	AA	950	U	C2-N3	8.15	1.43	1.37
35	BB	84	A	C4'-C3'	8.15	1.62	1.53
35	BB	887	U	N3-C4	8.15	1.45	1.38
35	BB	1325	U	C1'-N1	8.15	1.60	1.48
35	BB	801	G	N7-C5	-8.15	1.34	1.39
35	BB	1200	C	N3-C4	8.15	1.39	1.33
1	AA	400	C	O3'-P	-8.15	1.51	1.61
35	BB	1129	A	C5-C4	8.15	1.44	1.38
35	BB	1659	G	C2-N3	8.15	1.39	1.32
1	AA	988	G	C2-N3	8.15	1.39	1.32
1	AA	1375	A	N3-C4	-8.15	1.29	1.34
35	BB	459	U	N3-C4	8.15	1.45	1.38
35	BB	2637	U	C4'-C3'	-8.15	1.44	1.53
35	BB	1458	U	N1-C2	8.15	1.45	1.38
35	BB	1576	U	N3-C4	8.15	1.45	1.38
1	AA	654	G	N7-C5	-8.14	1.34	1.39
35	BB	1737	G	C6-N1	8.14	1.45	1.39
35	BB	2079	U	C2-N3	8.14	1.43	1.37
35	BB	2415	G	P-O5'	-8.14	1.51	1.59
1	AA	149	A	C6-N6	8.14	1.40	1.33
35	BB	473	G	C5-C4	8.14	1.44	1.38
35	BB	617	G	C5'-C4'	8.14	1.61	1.51
35	BB	2257	U	C2-N3	8.14	1.43	1.37
1	AA	131	A	C6-N1	8.14	1.41	1.35
1	AA	1017	U	C2'-C1'	-8.14	1.44	1.53
35	BB	712	G	N7-C5	-8.14	1.34	1.39
35	BB	2505	G	N9-C8	8.14	1.43	1.37
35	BB	2894	G	P-O5'	-8.14	1.51	1.59
1	AA	168	G	C8-N7	-8.13	1.26	1.30
1	AA	746	A	C8-N7	8.14	1.37	1.31
35	BB	2409	G	C6-N1	8.13	1.45	1.39
35	BB	2495	G	P-O5'	-8.13	1.51	1.59
35	BB	2534	A	N9-C8	-8.14	1.31	1.37
1	AA	821	G	C8-N7	-8.13	1.26	1.30
22	AV	38	U	C2'-C1'	-8.13	1.44	1.53
34	BA	99	A	C6-N1	-8.13	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	362	A	P-O5'	8.13	1.67	1.59
35	BB	1290	C	C2'-C1'	-8.13	1.44	1.53
35	BB	1365	A	C5-C4	8.13	1.44	1.38
35	BB	1772	A	N9-C4	8.13	1.42	1.37
35	BB	2701	U	C2-N3	8.13	1.43	1.37
35	BB	2775	G	C5'-C4'	8.13	1.61	1.51
35	BB	13	A	N3-C4	-8.13	1.29	1.34
35	BB	13	A	N7-C5	-8.13	1.34	1.39
35	BB	784	G	N7-C5	-8.13	1.34	1.39
35	BB	2654	A	C6-N6	8.13	1.40	1.33
1	AA	115	G	N1-C2	8.13	1.44	1.37
1	AA	1263	C	N3-C4	8.12	1.39	1.33
35	BB	491	G	C2-N2	8.12	1.42	1.34
1	AA	298	A	N9-C4	-8.12	1.32	1.37
34	BA	88	C	N1-C6	8.12	1.42	1.37
35	BB	798	G	N9-C8	8.12	1.43	1.37
35	BB	917	A	C6-N6	8.12	1.40	1.33
35	BB	1131	G	P-O5'	-8.12	1.51	1.59
35	BB	2300	C	C2-N3	-8.12	1.29	1.35
35	BB	482	A	O3'-P	-8.12	1.51	1.61
35	BB	672	C	C4-N4	8.12	1.41	1.33
1	AA	1273	C	C4-N4	8.12	1.41	1.33
35	BB	2694	G	C5-C4	8.12	1.44	1.38
35	BB	2357	G	C6-N1	8.11	1.45	1.39
35	BB	2832	U	C2'-C1'	-8.12	1.44	1.53
35	BB	2893	A	C6-N6	8.12	1.40	1.33
35	BB	718	A	C6-N6	8.11	1.40	1.33
35	BB	978	G	N9-C8	-8.11	1.32	1.37
35	BB	1640	A	N7-C5	-8.11	1.34	1.39
35	BB	455	C	C2'-C1'	-8.11	1.44	1.53
35	BB	1332	G	C2'-C1'	-8.11	1.44	1.53
35	BB	1605	C	C2-N3	8.11	1.42	1.35
35	BB	1351	C	C3'-C2'	-8.11	1.43	1.52
1	AA	140	U	N3-C4	8.11	1.45	1.38
35	BB	469	G	C5'-C4'	8.11	1.61	1.51
35	BB	1018	U	C2-N3	8.11	1.43	1.37
35	BB	1427	A	C5-C6	-8.11	1.33	1.41
35	BB	2674	G	N9-C8	-8.11	1.32	1.37
1	AA	1343	G	C6-O6	-8.10	1.16	1.24
35	BB	1511	G	O3'-P	-8.10	1.51	1.61
1	AA	154	U	P-O5'	-8.10	1.51	1.59
35	BB	530	G	N3-C4	-8.10	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1918	A	N7-C5	-8.10	1.34	1.39
1	AA	32	A	N9-C4	8.10	1.42	1.37
35	BB	1342	A	N7-C5	-8.10	1.34	1.39
35	BB	1764	C	N3-C4	8.10	1.39	1.33
35	BB	2418	A	C6-N6	8.10	1.40	1.33
22	AV	4	C	C2-N3	8.10	1.42	1.35
35	BB	1599	U	N3-C4	8.10	1.45	1.38
1	AA	741	G	C2-N2	8.10	1.42	1.34
35	BB	541	A	O3'-P	-8.10	1.51	1.61
35	BB	1871	A	C4'-C3'	8.10	1.62	1.53
35	BB	108	G	C2-N2	8.09	1.42	1.34
35	BB	1982	U	P-O5'	-8.09	1.51	1.59
1	AA	288	A	C2'-C1'	-8.09	1.44	1.53
1	AA	1279	G	N3-C4	-8.09	1.29	1.35
1	AA	1429	A	C3'-C2'	-8.09	1.43	1.52
1	AA	887	G	N9-C4	-8.09	1.31	1.38
1	AA	996	A	C6-N1	8.09	1.41	1.35
34	BA	46	A	N9-C4	8.09	1.42	1.37
35	BB	482	A	N7-C5	-8.09	1.34	1.39
35	BB	2470	G	N9-C8	8.09	1.43	1.37
35	BB	1099	G	C2'-C1'	-8.09	1.44	1.53
35	BB	1767	G	C2-N3	8.09	1.39	1.32
35	BB	1972	G	N9-C4	-8.09	1.31	1.38
35	BB	401	A	C2'-C1'	-8.09	1.44	1.53
35	BB	2052	A	C2'-C1'	-8.09	1.44	1.53
35	BB	2190	G	C2'-C1'	-8.09	1.44	1.53
1	AA	103	U	N3-C4	8.09	1.45	1.38
1	AA	733	G	O4'-C1'	-8.08	1.31	1.41
35	BB	482	A	C2'-C1'	-8.08	1.44	1.53
35	BB	1551	A	C2'-C1'	-8.08	1.44	1.53
35	BB	2429	G	O3'-P	-8.08	1.51	1.61
1	AA	47	C	C2-N3	8.08	1.42	1.35
1	AA	702	A	C8-N7	-8.08	1.25	1.31
1	AA	880	C	O3'-P	-8.08	1.51	1.61
1	AA	1398	A	N7-C5	-8.08	1.34	1.39
35	BB	931	U	C2-N3	8.08	1.43	1.37
1	AA	1282	C	C4-N4	8.08	1.41	1.33
35	BB	632	A	N7-C5	-8.08	1.34	1.39
35	BB	1450	G	N9-C8	8.08	1.43	1.37
35	BB	2751	G	N7-C5	-8.08	1.34	1.39
1	AA	913	A	C6-N6	8.08	1.40	1.33
35	BB	166	U	O3'-P	-8.08	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2339	C	C2'-C1'	-8.08	1.44	1.53
1	AA	69	G	C2-N3	8.07	1.39	1.32
1	AA	155	A	N9-C4	8.07	1.42	1.37
35	BB	1000	A	P-O5'	-8.07	1.51	1.59
35	BB	1074	G	C2-N3	8.07	1.39	1.32
1	AA	145	G	C6-N1	8.07	1.45	1.39
1	AA	993	G	C6-N1	8.07	1.45	1.39
35	BB	166	U	C5'-C4'	8.07	1.61	1.51
35	BB	2557	G	C5'-C4'	8.07	1.61	1.51
1	AA	363	A	N9-C4	-8.07	1.33	1.37
1	AA	658	C	N1-C6	8.07	1.42	1.37
35	BB	160	A	N7-C5	-8.07	1.34	1.39
35	BB	622	G	C5'-C4'	8.07	1.61	1.51
35	BB	1624	U	C2-N3	8.07	1.43	1.37
35	BB	2013	A	N9-C4	8.07	1.42	1.37
1	AA	332	G	C2'-C1'	-8.06	1.44	1.53
35	BB	2588	G	N1-C2	8.06	1.44	1.37
1	AA	160	A	N9-C4	-8.06	1.33	1.37
1	AA	809	G	N1-C2	8.06	1.44	1.37
35	BB	1553	A	C6-N1	8.06	1.41	1.35
35	BB	2199	A	C8-N7	-8.06	1.25	1.31
35	BB	2845	U	C1'-N1	8.06	1.60	1.48
1	AA	90	C	C2-N3	8.06	1.42	1.35
1	AA	646	G	N9-C8	8.06	1.43	1.37
35	BB	1667	G	P-O5'	-8.06	1.51	1.59
1	AA	211	G	N7-C5	-8.06	1.34	1.39
35	BB	876	C	N1-C6	8.06	1.42	1.37
35	BB	2088	A	N7-C5	8.06	1.44	1.39
35	BB	2623	G	N7-C5	-8.06	1.34	1.39
34	BA	117	G	C6-N1	8.05	1.45	1.39
35	BB	2125	G	C4'-O4'	-8.05	1.35	1.45
35	BB	2459	A	N7-C5	-8.05	1.34	1.39
22	AV	70	C	P-O5'	-8.05	1.51	1.59
1	AA	1053	G	N1-C2	8.05	1.44	1.37
35	BB	62	U	N1-C6	8.05	1.45	1.38
35	BB	2594	C	C2-N3	8.05	1.42	1.35
35	BB	2807	U	C2-N3	8.05	1.43	1.37
1	AA	1255	G	N9-C4	8.05	1.44	1.38
1	AA	623	C	C2'-C1'	-8.04	1.44	1.53
1	AA	1254	A	N7-C5	-8.04	1.34	1.39
35	BB	366	C	O4'-C1'	-8.04	1.31	1.41
35	BB	1247	A	C6-N6	8.04	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2357	G	C5-C6	-8.05	1.34	1.42
35	BB	2590	A	C6-N1	8.04	1.41	1.35
35	BB	119	A	N7-C5	-8.04	1.34	1.39
35	BB	266	G	N9-C8	8.04	1.43	1.37
35	BB	1281	G	C5'-C4'	8.04	1.61	1.51
35	BB	1707	G	N7-C5	-8.04	1.34	1.39
35	BB	2850	A	N9-C4	-8.04	1.33	1.37
1	AA	874	G	N7-C5	-8.04	1.34	1.39
1	AA	962	C	N3-C4	8.04	1.39	1.33
35	BB	402	A	N7-C5	-8.04	1.34	1.39
35	BB	2219	U	C2-N3	8.04	1.43	1.37
35	BB	2416	C	C4-N4	8.04	1.41	1.33
35	BB	852	U	C3'-C2'	-8.04	1.44	1.52
35	BB	2474	U	N1-C6	-8.04	1.30	1.38
1	AA	524	G	C8-N7	8.04	1.35	1.30
35	BB	665	U	N1-C6	8.04	1.45	1.38
35	BB	1010	A	C5-C4	8.04	1.44	1.38
1	AA	21	G	N3-C4	-8.03	1.29	1.35
1	AA	727	G	N1-C2	8.03	1.44	1.37
1	AA	127	G	N7-C5	-8.03	1.34	1.39
1	AA	667	G	O3'-P	-8.03	1.51	1.61
35	BB	2294	G	N7-C5	-8.03	1.34	1.39
35	BB	1189	A	N7-C5	-8.03	1.34	1.39
35	BB	2758	A	C5-C4	-8.03	1.33	1.38
35	BB	283	G	C2-N3	8.03	1.39	1.32
35	BB	356	G	C8-N7	-8.03	1.26	1.30
35	BB	1503	A	C5'-C4'	8.03	1.60	1.51
35	BB	1649	G	C6-N1	8.03	1.45	1.39
35	BB	1943	U	C2-N3	8.03	1.43	1.37
1	AA	182	A	C2'-C1'	-8.02	1.44	1.53
35	BB	2722	G	N7-C5	-8.02	1.34	1.39
1	AA	391	G	N9-C8	8.02	1.43	1.37
1	AA	1515	G	N9-C4	8.02	1.44	1.38
1	AA	852	G	C4'-O4'	-8.02	1.35	1.45
1	AA	1096	C	C2'-C1'	-8.02	1.44	1.53
34	BA	36	C	N1-C6	8.02	1.42	1.37
35	BB	517	C	C4-C5	8.02	1.49	1.43
35	BB	844	A	N7-C5	-8.02	1.34	1.39
35	BB	1793	C	O3'-P	-8.02	1.51	1.61
35	BB	2428	G	C2-N3	8.02	1.39	1.32
1	AA	1523	G	N3-C4	8.02	1.41	1.35
35	BB	643	A	C6-N6	8.02	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1682	G	N1-C2	8.02	1.44	1.37
1	AA	760	G	N3-C4	-8.02	1.29	1.35
1	AA	1126	U	P-O5'	-8.02	1.51	1.59
35	BB	661	A	N9-C4	-8.02	1.33	1.37
35	BB	1952	A	C5-C4	8.02	1.44	1.38
35	BB	1788	C	P-O5'	-8.01	1.51	1.59
1	AA	487	A	C4'-C3'	8.01	1.61	1.53
1	AA	1215	G	C2-N3	8.01	1.39	1.32
35	BB	363	G	C8-N7	-8.01	1.26	1.30
35	BB	1538	G	C5-C4	-8.01	1.32	1.38
35	BB	2140	G	C8-N7	8.01	1.35	1.30
35	BB	2799	A	C6-N6	8.01	1.40	1.33
1	AA	816	A	N9-C8	8.01	1.44	1.37
35	BB	1784	A	C8-N7	-8.01	1.25	1.31
1	AA	1058	G	C3'-C2'	-8.01	1.44	1.52
1	AA	256	U	N3-C4	8.01	1.45	1.38
1	AA	1092	A	O3'-P	-8.01	1.51	1.61
35	BB	194	G	C5-C4	8.01	1.44	1.38
35	BB	2274	A	C2'-C1'	-8.01	1.44	1.53
35	BB	2366	A	C8-N7	-8.01	1.25	1.31
35	BB	2282	G	N1-C2	8.01	1.44	1.37
1	AA	471	U	O4'-C1'	8.00	1.52	1.41
1	AA	933	G	C4'-C3'	8.00	1.61	1.53
34	BA	20	G	C5-C4	8.00	1.44	1.38
35	BB	51	G	C6-N1	8.00	1.45	1.39
35	BB	1094	U	N3-C4	8.00	1.45	1.38
1	AA	19	A	N7-C5	-8.00	1.34	1.39
1	AA	837	U	P-O5'	-8.00	1.51	1.59
1	AA	1064	G	C2'-C1'	-8.00	1.44	1.53
1	AA	1409	C	C4-N4	8.00	1.41	1.33
1	AA	50	A	P-O5'	-8.00	1.51	1.59
35	BB	776	G	C6-N1	8.00	1.45	1.39
35	BB	1215	G	C5-C6	-8.00	1.34	1.42
35	BB	843	G	C8-N7	-7.99	1.26	1.30
35	BB	2092	U	C2-N3	7.99	1.43	1.37
35	BB	2100	G	N7-C5	-7.99	1.34	1.39
35	BB	2776	A	C2'-C1'	-7.99	1.44	1.53
1	AA	819	A	N3-C4	-7.99	1.30	1.34
35	BB	1617	C	N1-C6	7.99	1.42	1.37
35	BB	2627	G	N9-C4	-7.99	1.31	1.38
1	AA	750	C	P-O5'	-7.99	1.51	1.59
1	AA	868	C	C4-N4	7.99	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1801	A	N9-C4	7.99	1.42	1.37
1	AA	379	C	C2'-C1'	-7.99	1.44	1.53
35	BB	2354	C	C4'-C3'	-7.99	1.44	1.53
35	BB	789	A	C6-N1	7.99	1.41	1.35
35	BB	2259	U	C4-C5	7.99	1.50	1.43
35	BB	2508	G	C6-N1	7.99	1.45	1.39
35	BB	2759	G	N7-C5	-7.99	1.34	1.39
35	BB	2883	A	C6-N1	7.99	1.41	1.35
1	AA	830	G	C6-N1	7.98	1.45	1.39
1	AA	1284	C	N1-C6	7.98	1.42	1.37
35	BB	294	A	C6-N6	7.98	1.40	1.33
1	AA	907	A	C4'-C3'	-7.98	1.44	1.53
1	AA	1503	A	C5'-C4'	7.98	1.60	1.51
34	BA	108	A	C6-N1	7.98	1.41	1.35
35	BB	34	U	C2-N3	7.98	1.43	1.37
35	BB	834	G	C2-N3	7.98	1.39	1.32
1	AA	236	A	C8-N7	-7.98	1.25	1.31
1	AA	336	A	N9-C4	-7.98	1.33	1.37
1	AA	1061	G	N3-C4	7.98	1.41	1.35
35	BB	1536	C	N1-C2	7.98	1.48	1.40
35	BB	1643	G	N9-C8	-7.98	1.32	1.37
35	BB	1951	U	C5-C6	7.98	1.41	1.34
35	BB	1266	G	N7-C5	7.98	1.44	1.39
1	AA	728	A	N3-C4	7.98	1.39	1.34
35	BB	1171	G	N9-C8	7.98	1.43	1.37
35	BB	2097	A	C5-C6	7.98	1.48	1.41
35	BB	879	G	C8-N7	-7.98	1.26	1.30
35	BB	2316	G	C8-N7	-7.98	1.26	1.30
1	AA	445	G	P-O5'	7.97	1.67	1.59
1	AA	1374	A	C6-N6	7.97	1.40	1.33
35	BB	213	A	N9-C8	-7.97	1.31	1.37
1	AA	1371	G	N9-C8	7.97	1.43	1.37
22	AV	2	G	C8-N7	-7.97	1.26	1.30
34	BA	52	A	N9-C4	-7.97	1.33	1.37
35	BB	2413	G	C8-N7	7.97	1.35	1.30
1	AA	518	C	C2-N3	7.97	1.42	1.35
35	BB	446	G	C2-N3	7.97	1.39	1.32
35	BB	1739	A	P-O5'	-7.97	1.51	1.59
35	BB	734	A	C5'-C4'	7.97	1.60	1.51
35	BB	2689	U	C4-C5	7.97	1.50	1.43
35	BB	1414	C	N3-C4	7.96	1.39	1.33
35	BB	2066	C	C2-N3	7.96	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1533	C	N1-C6	7.96	1.42	1.37
35	BB	1669	A	N1-C2	-7.96	1.27	1.34
1	AA	22	G	N7-C5	-7.96	1.34	1.39
1	AA	397	A	C5-C6	7.96	1.48	1.41
35	BB	1738	G	C5-C4	7.96	1.44	1.38
35	BB	2782	G	C2-N3	7.96	1.39	1.32
1	AA	1214	C	C2-N3	7.96	1.42	1.35
1	AA	1310	G	C6-N1	7.96	1.45	1.39
35	BB	1182	G	C2-N3	7.96	1.39	1.32
34	BA	69	G	C6-N1	7.96	1.45	1.39
35	BB	68	G	N7-C5	-7.96	1.34	1.39
1	AA	705	G	C2-N3	7.95	1.39	1.32
1	AA	994	A	C6-N6	7.95	1.40	1.33
35	BB	374	A	N3-C4	-7.95	1.30	1.34
35	BB	612	G	C8-N7	-7.95	1.26	1.30
35	BB	1655	A	N7-C5	7.95	1.44	1.39
35	BB	2001	C	C2'-C1'	-7.95	1.44	1.53
1	AA	1497	G	C2-N2	7.95	1.42	1.34
35	BB	2353	G	C2'-C1'	-7.95	1.44	1.53
1	AA	24	U	N1-C6	7.95	1.45	1.38
1	AA	297	G	C8-N7	7.95	1.35	1.30
35	BB	1693	U	C5-C6	7.95	1.41	1.34
35	BB	2639	A	C5-C6	-7.95	1.33	1.41
1	AA	1039	G	N1-C2	7.95	1.44	1.37
35	BB	971	G	C6-N1	7.95	1.45	1.39
1	AA	1168	U	N1-C2	7.95	1.45	1.38
35	BB	2230	G	C2-N3	7.95	1.39	1.32
1	AA	937	A	N7-C5	-7.95	1.34	1.39
35	BB	22	C	P-O5'	-7.95	1.51	1.59
35	BB	1334	G	C6-N1	7.95	1.45	1.39
35	BB	2693	G	C2-N2	7.95	1.42	1.34
22	AV	76	A	C5-C4	-7.94	1.33	1.38
35	BB	717	C	C4-C5	7.94	1.49	1.43
35	BB	883	G	N1-C2	7.94	1.44	1.37
1	AA	172	A	N3-C4	-7.94	1.30	1.34
35	BB	683	U	C2'-C1'	-7.94	1.44	1.53
35	BB	1015	U	P-O5'	-7.94	1.51	1.59
1	AA	979	C	N3-C4	7.94	1.39	1.33
35	BB	1722	A	P-O5'	-7.94	1.51	1.59
35	BB	2393	U	O3'-P	-7.94	1.51	1.61
35	BB	1612	C	N3-C4	7.94	1.39	1.33
1	AA	1505	G	P-O5'	-7.94	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1195	C	C4-N4	7.93	1.41	1.33
1	AA	1352	C	C4-C5	7.93	1.49	1.43
35	BB	111	A	O4'-C1'	-7.93	1.31	1.41
35	BB	2003	A	C2'-C1'	-7.93	1.44	1.53
35	BB	2289	G	C2-N3	7.93	1.39	1.32
35	BB	712	G	N1-C2	7.93	1.44	1.37
35	BB	1032	A	C6-N6	7.93	1.40	1.33
1	AA	1248	A	C6-N1	7.93	1.41	1.35
35	BB	1641	A	C8-N7	-7.93	1.25	1.31
35	BB	2516	A	C8-N7	-7.93	1.25	1.31
35	BB	2758	A	N7-C5	-7.93	1.34	1.39
34	BA	73	A	C4'-O4'	-7.93	1.35	1.45
35	BB	2360	G	N7-C5	-7.93	1.34	1.39
34	BA	104	A	C8-N7	-7.93	1.26	1.31
35	BB	1066	U	C2-N3	7.93	1.43	1.37
35	BB	1425	G	C6-N1	7.93	1.45	1.39
35	BB	62	U	N3-C4	7.92	1.45	1.38
35	BB	211	C	N1-C6	-7.92	1.32	1.37
35	BB	2104	C	C4-N4	7.92	1.41	1.33
1	AA	427	U	C2-N3	7.92	1.43	1.37
1	AA	755	G	C6-N1	7.92	1.45	1.39
35	BB	643	A	N7-C5	7.92	1.44	1.39
35	BB	1617	C	N3-C4	7.92	1.39	1.33
35	BB	1455	G	P-O5'	-7.92	1.51	1.59
35	BB	1530	G	C6-N1	7.92	1.45	1.39
35	BB	1662	U	N3-C4	7.92	1.45	1.38
35	BB	2445	G	C4'-C3'	-7.92	1.44	1.53
1	AA	1190	G	C8-N7	-7.92	1.26	1.30
35	BB	2030	A	N3-C4	-7.92	1.30	1.34
1	AA	88	U	P-O5'	-7.92	1.51	1.59
1	AA	558	G	C2-N3	7.92	1.39	1.32
1	AA	1336	C	C2'-C1'	-7.92	1.44	1.53
35	BB	1096	A	N9-C4	7.92	1.42	1.37
35	BB	1601	G	C2-N2	7.92	1.42	1.34
1	AA	1446	A	C4'-C3'	7.92	1.61	1.53
35	BB	2274	A	N3-C4	-7.92	1.30	1.34
1	AA	1500	A	N1-C2	7.91	1.41	1.34
35	BB	78	U	C4'-C3'	-7.91	1.44	1.53
35	BB	1223	G	N1-C2	7.91	1.44	1.37
35	BB	2121	G	C8-N7	-7.91	1.26	1.30
1	AA	1125	U	C2-N3	7.91	1.43	1.37
22	AV	32	A	N9-C8	7.91	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2102	G	N7-C5	-7.91	1.34	1.39
35	BB	2456	C	N3-C4	7.91	1.39	1.33
1	AA	1184	G	C2'-C1'	-7.91	1.44	1.53
1	AA	1410	A	C6-N6	7.91	1.40	1.33
35	BB	410	G	N7-C5	-7.91	1.34	1.39
35	BB	2693	G	C8-N7	-7.91	1.26	1.30
1	AA	1453	G	C2-N3	7.91	1.39	1.32
35	BB	885	C	N3-C4	7.91	1.39	1.33
35	BB	919	U	C3'-C2'	7.91	1.61	1.52
1	AA	176	C	P-O5'	-7.91	1.51	1.59
1	AA	1196	A	C5-C6	-7.91	1.33	1.41
35	BB	735	A	C6-N6	7.91	1.40	1.33
35	BB	1257	C	N1-C6	7.91	1.41	1.37
19	AS	31	ARG	CZ-NH2	7.90	1.43	1.33
35	BB	123	G	C2-N2	7.90	1.42	1.34
35	BB	497	A	N1-C2	7.90	1.41	1.34
35	BB	2193	G	C8-N7	7.90	1.35	1.30
35	BB	2582	G	C8-N7	-7.90	1.26	1.30
1	AA	1184	G	C5-C4	7.90	1.43	1.38
35	BB	398	C	C2-N3	7.90	1.42	1.35
35	BB	2124	G	C4'-O4'	-7.90	1.35	1.45
1	AA	1140	C	N3-C4	7.90	1.39	1.33
35	BB	1889	A	C6-N1	7.90	1.41	1.35
22	AV	73	A	C5'-C4'	7.90	1.60	1.51
35	BB	2736	A	N3-C4	-7.90	1.30	1.34
1	AA	195	A	C6-N6	7.90	1.40	1.33
1	AA	968	A	C5-C4	7.90	1.44	1.38
1	AA	1111	A	C8-N7	-7.90	1.26	1.31
35	BB	301	G	C6-N1	7.90	1.45	1.39
35	BB	1087	G	C4'-C3'	7.89	1.61	1.53
35	BB	1933	G	N1-C2	7.89	1.44	1.37
1	AA	1000	A	C2'-C1'	-7.89	1.44	1.53
35	BB	2557	G	C2'-C1'	-7.89	1.44	1.53
35	BB	2616	C	C2-N3	7.89	1.42	1.35
35	BB	2735	G	C8-N7	-7.89	1.26	1.30
35	BB	428	A	C6-N6	7.89	1.40	1.33
35	BB	1001	A	C6-N6	7.89	1.40	1.33
35	BB	210	C	C4-N4	7.89	1.41	1.33
35	BB	1257	C	P-O5'	-7.89	1.51	1.59
35	BB	2186	G	C5-C4	7.89	1.43	1.38
1	AA	747	A	C4'-C3'	-7.89	1.44	1.53
1	AA	1361	G	C5-C6	-7.89	1.34	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	249	C	N3-C4	7.89	1.39	1.33
1	AA	423	G	C2'-O2'	-7.88	1.31	1.41
1	AA	748	G	C2-N3	7.88	1.39	1.32
1	AA	1394	A	C5-C4	7.88	1.44	1.38
35	BB	495	G	N7-C5	-7.88	1.34	1.39
35	BB	780	G	C2'-C1'	7.88	1.62	1.53
35	BB	1171	G	P-O5'	7.88	1.67	1.59
1	AA	355	C	C4-C5	-7.88	1.36	1.43
35	BB	1403	A	C2'-C1'	-7.88	1.44	1.53
35	BB	1949	G	C8-N7	-7.88	1.26	1.30
35	BB	2058	A	N7-C5	-7.88	1.34	1.39
35	BB	2346	A	C5-C6	-7.88	1.33	1.41
35	BB	1521	G	C6-N1	7.88	1.45	1.39
35	BB	2153	C	C3'-O3'	7.88	1.53	1.42
1	AA	145	G	N1-C2	7.88	1.44	1.37
1	AA	438	U	C3'-C2'	7.88	1.61	1.52
32	B7	39	ARG	NE-CZ	7.88	1.43	1.33
34	BA	79	G	N1-C2	7.88	1.44	1.37
1	AA	74	A	N3-C4	7.88	1.39	1.34
1	AA	766	A	N7-C5	-7.88	1.34	1.39
1	AA	958	A	C6-N6	7.88	1.40	1.33
35	BB	751	A	C6-N1	7.88	1.41	1.35
35	BB	815	C	C5-C6	7.88	1.40	1.34
35	BB	1048	A	C6-N6	7.88	1.40	1.33
35	BB	1628	G	P-O5'	-7.88	1.51	1.59
35	BB	479	A	C6-N6	7.87	1.40	1.33
35	BB	1378	A	N3-C4	-7.87	1.30	1.34
35	BB	1392	A	C2'-C1'	-7.87	1.44	1.53
35	BB	1548	A	C6-N1	7.87	1.41	1.35
35	BB	1584	U	C4'-C3'	7.87	1.61	1.53
35	BB	2768	U	C2-N3	7.87	1.43	1.37
1	AA	74	A	C6-N1	7.87	1.41	1.35
1	AA	352	C	N3-C4	7.87	1.39	1.33
1	AA	678	U	C2-N3	7.87	1.43	1.37
35	BB	247	G	N9-C4	-7.87	1.31	1.38
35	BB	656	G	C6-N1	7.87	1.45	1.39
35	BB	1593	A	C6-N1	7.87	1.41	1.35
1	AA	518	C	C2'-C1'	-7.87	1.44	1.53
1	AA	1141	C	C3'-C2'	7.87	1.61	1.52
35	BB	1869	G	C5'-C4'	7.87	1.60	1.51
35	BB	2867	G	N1-C2	7.87	1.44	1.37
1	AA	65	A	C6-N6	7.86	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	429	U	O3'-P	-7.86	1.51	1.61
35	BB	665	U	C2-N3	7.86	1.43	1.37
35	BB	924	G	C2'-C1'	-7.86	1.44	1.53
35	BB	2013	A	P-O5'	-7.86	1.51	1.59
35	BB	2061	G	C3'-C2'	7.86	1.61	1.52
35	BB	2199	A	C6-N6	7.86	1.40	1.33
35	BB	1361	G	C6-N1	7.86	1.45	1.39
35	BB	2898	U	C4-O4	-7.86	1.17	1.23
35	BB	119	A	N1-C2	7.86	1.41	1.34
1	AA	832	G	C3'-O3'	7.86	1.53	1.42
1	AA	1231	G	N3-C4	-7.86	1.29	1.35
35	BB	1177	G	N9-C8	-7.86	1.32	1.37
1	AA	329	A	N3-C4	-7.86	1.30	1.34
35	BB	516	C	N1-C6	7.86	1.41	1.37
35	BB	939	G	C6-N1	7.86	1.45	1.39
35	BB	1432	G	C6-N1	7.86	1.45	1.39
35	BB	1903	G	N9-C8	-7.86	1.32	1.37
35	BB	2798	U	O4'-C1'	-7.86	1.31	1.41
34	BA	115	A	C5-C4	7.86	1.44	1.38
35	BB	855	G	N7-C5	-7.86	1.34	1.39
35	BB	1669	A	N7-C5	-7.86	1.34	1.39
35	BB	917	A	N9-C8	-7.85	1.31	1.37
35	BB	2732	G	C6-N1	-7.85	1.34	1.39
35	BB	344	A	C2'-C1'	-7.85	1.44	1.53
35	BB	449	A	P-O5'	-7.85	1.51	1.59
35	BB	1116	G	N3-C4	7.85	1.41	1.35
35	BB	2030	A	N7-C5	-7.85	1.34	1.39
35	BB	745	G	P-O5'	-7.85	1.51	1.59
1	AA	1339	A	C6-N1	7.85	1.41	1.35
34	BA	11	C	N3-C4	7.85	1.39	1.33
35	BB	232	G	O3'-P	-7.85	1.51	1.61
35	BB	2704	C	C4-C5	7.85	1.49	1.43
35	BB	542	C	N1-C6	7.85	1.41	1.37
35	BB	2253	G	C8-N7	-7.85	1.26	1.30
1	AA	113	G	N1-C2	7.85	1.44	1.37
1	AA	1371	G	C2'-C1'	-7.85	1.44	1.53
1	AA	153	C	O4'-C1'	-7.84	1.31	1.41
1	AA	553	A	C6-N1	7.84	1.41	1.35
1	AA	1111	A	C5-C4	7.84	1.44	1.38
35	BB	531	C	N3-C4	7.84	1.39	1.33
35	BB	1770	G	C3'-C2'	-7.84	1.44	1.52
1	AA	1277	C	C3'-C2'	-7.84	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1462	C	C4-C5	7.84	1.49	1.43
1	AA	42	G	P-O5'	-7.84	1.51	1.59
1	AA	568	G	N9-C4	7.84	1.44	1.38
1	AA	1066	C	C2-N3	7.84	1.42	1.35
3	AC	87	ARG	NE-CZ	7.84	1.43	1.33
35	BB	297	G	C5-C4	7.84	1.43	1.38
35	BB	707	G	N7-C5	-7.84	1.34	1.39
35	BB	914	G	C2-N2	7.84	1.42	1.34
35	BB	1873	G	C3'-O3'	7.84	1.53	1.42
35	BB	2107	G	N9-C4	-7.84	1.31	1.38
35	BB	1527	G	O3'-P	-7.84	1.51	1.61
1	AA	315	A	N9-C4	7.84	1.42	1.37
1	AA	799	G	C2-N3	7.84	1.39	1.32
1	AA	1505	G	C2-N2	7.84	1.42	1.34
35	BB	19	A	P-O5'	-7.84	1.51	1.59
35	BB	1451	C	C4-C5	7.84	1.49	1.43
35	BB	2323	G	N1-C2	7.84	1.44	1.37
35	BB	2489	U	P-O5'	-7.84	1.51	1.59
1	AA	772	U	C2-N3	7.83	1.43	1.37
35	BB	2018	G	N3-C4	-7.83	1.29	1.35
1	AA	690	G	P-O5'	-7.83	1.51	1.59
35	BB	745	G	N9-C8	7.83	1.43	1.37
35	BB	1661	G	N3-C4	-7.83	1.29	1.35
35	BB	2597	G	C5'-C4'	7.83	1.60	1.51
1	AA	142	G	N9-C4	7.83	1.44	1.38
1	AA	232	G	C1'-N9	7.83	1.60	1.48
1	AA	836	G	C2-N3	7.83	1.39	1.32
35	BB	1134	A	C8-N7	-7.83	1.26	1.31
35	BB	2495	G	C2'-C1'	-7.83	1.44	1.53
35	BB	2655	G	C3'-C2'	7.83	1.61	1.52
35	BB	469	G	C2'-C1'	-7.83	1.44	1.53
35	BB	2533	U	N3-C4	7.83	1.45	1.38
35	BB	2775	G	N9-C4	-7.83	1.31	1.38
1	AA	199	A	C8-N7	-7.83	1.26	1.31
1	AA	1175	G	C6-N1	7.83	1.45	1.39
1	AA	1280	A	C2'-C1'	-7.83	1.44	1.53
35	BB	619	G	C8-N7	7.83	1.35	1.30
35	BB	634	C	N3-C4	7.83	1.39	1.33
35	BB	822	G	C5-C6	-7.83	1.34	1.42
1	AA	922	G	N3-C4	7.83	1.41	1.35
1	AA	1051	C	C4-N4	7.83	1.41	1.33
1	AA	1222	G	N7-C5	-7.83	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1206	G	C6-N1	7.83	1.45	1.39
35	BB	931	U	C5'-C4'	7.82	1.60	1.51
35	BB	2258	C	N3-C4	7.82	1.39	1.33
35	BB	2833	U	N1-C2	7.82	1.45	1.38
1	AA	746	A	C5-C4	7.82	1.44	1.38
35	BB	503	A	N7-C5	-7.82	1.34	1.39
35	BB	1062	G	C5-C6	-7.82	1.34	1.42
35	BB	1109	C	C4'-C3'	7.82	1.61	1.53
35	BB	401	A	C6-N6	7.82	1.40	1.33
35	BB	933	A	N7-C5	-7.82	1.34	1.39
35	BB	1906	G	N1-C2	7.82	1.44	1.37
1	AA	1418	A	N7-C5	-7.82	1.34	1.39
35	BB	2279	G	C2-N3	-7.82	1.26	1.32
35	BB	2290	G	N1-C2	7.82	1.44	1.37
35	BB	2376	A	N7-C5	-7.82	1.34	1.39
35	BB	2398	U	N1-C2	7.82	1.45	1.38
35	BB	2564	A	C6-N6	7.82	1.40	1.33
35	BB	2120	G	N1-C2	7.81	1.44	1.37
1	AA	309	A	C6-N1	7.81	1.41	1.35
35	BB	1421	G	N1-C2	7.81	1.44	1.37
35	BB	1890	A	N3-C4	-7.81	1.30	1.34
1	AA	1171	A	C5'-C4'	7.81	1.60	1.51
1	AA	636	U	C2-N3	7.81	1.43	1.37
1	AA	787	A	C6-N6	7.81	1.40	1.33
35	BB	1669	A	C6-N1	7.81	1.41	1.35
35	BB	1833	C	P-O5'	-7.81	1.51	1.59
1	AA	577	G	C5-C4	-7.81	1.32	1.38
1	AA	947	G	C2'-C1'	-7.81	1.44	1.53
35	BB	997	G	C6-N1	7.81	1.45	1.39
35	BB	1305	C	N1-C6	-7.81	1.32	1.37
35	BB	2280	G	N7-C5	-7.81	1.34	1.39
35	BB	2846	G	N7-C5	-7.81	1.34	1.39
35	BB	1358	G	C3'-C2'	7.81	1.61	1.52
35	BB	1392	A	P-O5'	7.81	1.67	1.59
1	AA	674	G	N9-C4	7.80	1.44	1.38
35	BB	396	G	C2-N3	7.80	1.39	1.32
35	BB	409	G	C6-N1	7.80	1.45	1.39
35	BB	546	U	C2-N3	7.80	1.43	1.37
35	BB	2599	G	N9-C8	-7.80	1.32	1.37
1	AA	941	G	N1-C2	7.80	1.44	1.37
1	AA	1293	C	N3-C4	7.80	1.39	1.33
35	BB	473	G	N9-C8	-7.80	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	767	U	C5-C6	7.80	1.41	1.34
35	BB	1754	A	C6-N1	7.80	1.41	1.35
35	BB	2418	A	C2'-C1'	-7.80	1.44	1.53
35	BB	294	A	C2'-C1'	-7.80	1.44	1.53
1	AA	128	G	N1-C2	7.80	1.44	1.37
1	AA	711	G	C6-N1	7.80	1.45	1.39
1	AA	1276	G	P-O5'	-7.80	1.51	1.59
35	BB	1974	C	P-O5'	-7.80	1.51	1.59
22	AV	72	G	C2'-C1'	-7.80	1.44	1.53
35	BB	349	U	C4'-O4'	-7.80	1.35	1.45
35	BB	2012	G	N3-C4	7.80	1.41	1.35
1	AA	1142	G	N9-C8	7.79	1.43	1.37
1	AA	1327	C	N3-C4	7.79	1.39	1.33
35	BB	1559	U	C4-C5	7.79	1.50	1.43
1	AA	131	A	N1-C2	-7.79	1.27	1.34
35	BB	84	A	C5-C4	7.79	1.44	1.38
35	BB	544	C	N1-C6	7.79	1.41	1.37
35	BB	2469	A	C6-N1	7.79	1.41	1.35
1	AA	1388	C	O3'-P	-7.79	1.51	1.61
1	AA	1415	G	P-O5'	-7.79	1.51	1.59
35	BB	707	G	C8-N7	-7.79	1.26	1.30
35	BB	551	G	C6-N1	7.79	1.45	1.39
35	BB	763	G	N1-C2	7.79	1.44	1.37
1	AA	1065	U	P-O5'	7.79	1.67	1.59
35	BB	490	C	C2-N3	7.79	1.42	1.35
35	BB	2725	A	N7-C5	-7.79	1.34	1.39
1	AA	1025	U	O3'-P	-7.79	1.51	1.61
35	BB	532	A	C6-N6	7.79	1.40	1.33
35	BB	2868	A	C5-C4	7.79	1.44	1.38
35	BB	1093	G	C5-C4	7.79	1.43	1.38
35	BB	38	A	C2'-C1'	-7.78	1.44	1.53
1	AA	310	G	P-O5'	-7.78	1.51	1.59
35	BB	2132	U	O3'-P	-7.78	1.51	1.61
35	BB	2900	A	C6-N6	7.78	1.40	1.33
1	AA	813	U	C2'-C1'	-7.78	1.44	1.53
22	AV	3	G	O3'-P	-7.78	1.51	1.61
35	BB	406	G	C2'-C1'	-7.78	1.44	1.53
35	BB	811	U	C2-N3	7.78	1.43	1.37
35	BB	2029	G	C2-N3	7.78	1.39	1.32
1	AA	585	G	C5-C4	7.78	1.43	1.38
1	AA	837	U	N3-C4	7.78	1.45	1.38
1	AA	1300	G	C6-N1	7.78	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	708	G	N7-C5	-7.78	1.34	1.39
1	AA	115	G	C2-N3	7.78	1.39	1.32
1	AA	1202	U	N1-C6	7.78	1.45	1.38
35	BB	1165	A	C5'-C4'	7.78	1.60	1.51
35	BB	1868	C	N3-C4	7.78	1.39	1.33
1	AA	124	C	C4-C5	7.78	1.49	1.43
1	AA	181	A	C6-N6	7.78	1.40	1.33
1	AA	228	A	N7-C5	-7.78	1.34	1.39
1	AA	414	A	C6-N6	7.78	1.40	1.33
35	BB	1608	A	N9-C4	-7.78	1.33	1.37
35	BB	1735	A	C6-N1	7.78	1.41	1.35
35	BB	2394	C	C2'-C1'	-7.78	1.44	1.53
35	BB	423	A	N9-C4	-7.77	1.33	1.37
35	BB	1373	A	C6-N1	7.77	1.41	1.35
1	AA	985	C	O4'-C1'	7.77	1.51	1.41
1	AA	1003	G	N9-C8	7.77	1.43	1.37
35	BB	380	G	C2'-C1'	-7.77	1.44	1.53
35	BB	1828	G	C6-O6	-7.77	1.17	1.24
35	BB	2038	G	C2'-C1'	-7.77	1.44	1.53
35	BB	2118	U	N3-C4	7.77	1.45	1.38
35	BB	2780	G	P-O5'	-7.77	1.51	1.59
35	BB	636	G	N7-C5	-7.77	1.34	1.39
35	BB	757	G	P-O5'	-7.77	1.51	1.59
35	BB	1128	G	N1-C2	7.77	1.44	1.37
1	AA	859	G	C2-N3	7.77	1.39	1.32
35	BB	137	U	P-O5'	-7.77	1.51	1.59
35	BB	220	G	C6-N1	7.77	1.45	1.39
1	AA	7	A	C6-N1	7.77	1.41	1.35
35	BB	220	G	N1-C2	7.77	1.44	1.37
1	AA	523	A	C5-C4	7.77	1.44	1.38
1	AA	1052	U	O3'-P	-7.77	1.51	1.61
1	AA	1326	U	C2-N3	7.77	1.43	1.37
35	BB	1600	C	C4-N4	7.77	1.41	1.33
1	AA	384	G	C4'-O4'	-7.76	1.35	1.45
1	AA	611	C	C2-N3	7.76	1.42	1.35
35	BB	258	G	O4'-C1'	7.76	1.51	1.41
35	BB	299	A	C6-N6	7.76	1.40	1.33
35	BB	688	U	N3-C4	7.76	1.45	1.38
35	BB	1233	C	C2-N3	7.76	1.42	1.35
35	BB	2677	G	N7-C5	-7.76	1.34	1.39
35	BB	14	A	N3-C4	7.76	1.39	1.34
35	BB	450	G	N9-C4	-7.76	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	517	G	C5-C4	-7.76	1.32	1.38
1	AA	1376	U	C2-N3	7.76	1.43	1.37
35	BB	53	A	C6-N1	7.76	1.41	1.35
35	BB	1336	A	N9-C4	-7.76	1.33	1.37
35	BB	2114	A	C6-N6	7.76	1.40	1.33
35	BB	2198	A	C6-N1	7.76	1.41	1.35
35	BB	2739	U	C2'-C1'	-7.76	1.44	1.53
1	AA	916	U	N1-C2	7.76	1.45	1.38
1	AA	1160	G	O4'-C1'	7.76	1.51	1.41
35	BB	723	C	C4-N4	7.76	1.41	1.33
35	BB	1017	G	C6-N1	7.76	1.45	1.39
35	BB	2123	G	O3'-P	-7.76	1.51	1.61
1	AA	1160	G	N9-C8	7.76	1.43	1.37
1	AA	1363	A	O3'-P	-7.76	1.51	1.61
35	BB	1849	G	N3-C4	-7.76	1.30	1.35
35	BB	2236	U	C2-N3	7.76	1.43	1.37
1	AA	884	U	N1-C6	-7.76	1.30	1.38
1	AA	1231	G	N1-C2	7.76	1.44	1.37
35	BB	124	G	C2-N2	7.76	1.42	1.34
35	BB	277	G	N9-C4	7.76	1.44	1.38
35	BB	1274	A	C6-N6	7.76	1.40	1.33
35	BB	1586	A	N7-C5	-7.76	1.34	1.39
35	BB	1989	G	C6-N1	7.76	1.45	1.39
35	BB	2513	A	C6-N1	7.76	1.41	1.35
1	AA	473	U	C2-O2	7.75	1.29	1.22
35	BB	4	U	C2-N3	7.75	1.43	1.37
35	BB	1155	A	C5-C4	-7.75	1.33	1.38
1	AA	28	A	N3-C4	-7.75	1.30	1.34
34	BA	108	A	C4'-C3'	-7.75	1.44	1.53
35	BB	2874	C	C4'-C3'	-7.75	1.44	1.53
1	AA	532	A	P-O5'	-7.75	1.51	1.59
1	AA	1215	G	C8-N7	7.75	1.35	1.30
35	BB	2863	C	P-O5'	-7.75	1.51	1.59
35	BB	668	A	O4'-C1'	-7.75	1.31	1.41
35	BB	919	U	C2-N3	7.75	1.43	1.37
1	AA	228	A	C8-N7	-7.75	1.26	1.31
1	AA	838	G	C5-C4	7.75	1.43	1.38
35	BB	474	G	O3'-P	-7.75	1.51	1.61
35	BB	693	A	C8-N7	-7.75	1.26	1.31
35	BB	2251	G	C2-N3	7.75	1.39	1.32
35	BB	2874	C	N1-C6	7.75	1.41	1.37
35	BB	75	G	C8-N7	-7.75	1.26	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	799	G	N9-C4	-7.75	1.31	1.38
35	BB	2445	G	O3'-P	7.75	1.70	1.61
35	BB	2177	C	C4-N4	7.75	1.41	1.33
35	BB	2136	G	C3'-C2'	7.74	1.61	1.52
35	BB	2739	U	P-O5'	7.74	1.67	1.59
35	BB	222	A	C6-N1	7.74	1.41	1.35
35	BB	2009	A	P-O5'	-7.74	1.52	1.59
35	BB	2572	A	C6-N6	7.74	1.40	1.33
35	BB	2826	A	N3-C4	-7.74	1.30	1.34
35	BB	2881	U	N3-C4	7.74	1.45	1.38
1	AA	556	C	N1-C6	7.74	1.41	1.37
35	BB	24	G	C2-N3	7.74	1.39	1.32
35	BB	454	A	N9-C4	-7.74	1.33	1.37
35	BB	1151	A	N9-C8	-7.74	1.31	1.37
35	BB	1764	C	N1-C6	7.74	1.41	1.37
35	BB	1836	C	N1-C6	7.74	1.41	1.37
1	AA	674	G	C8-N7	7.74	1.35	1.30
35	BB	1368	G	N3-C4	-7.74	1.30	1.35
1	AA	44	A	C6-N6	7.74	1.40	1.33
35	BB	415	A	C8-N7	-7.74	1.26	1.31
35	BB	1271	G	N1-C2	7.74	1.44	1.37
35	BB	1678	A	N7-C5	-7.74	1.34	1.39
35	BB	2576	G	C5-C6	-7.74	1.34	1.42
35	BB	492	A	N3-C4	7.73	1.39	1.34
35	BB	954	G	C6-N1	7.73	1.45	1.39
1	AA	1050	G	N7-C5	-7.73	1.34	1.39
1	AA	1228	C	O3'-P	-7.73	1.51	1.61
1	AA	1356	G	N1-C2	7.73	1.44	1.37
34	BA	4	C	N3-C4	7.73	1.39	1.33
35	BB	1672	A	C8-N7	-7.73	1.26	1.31
35	BB	2331	G	C8-N7	-7.73	1.26	1.30
1	AA	581	G	C5'-C4'	7.73	1.60	1.51
35	BB	1626	A	N7-C5	-7.73	1.34	1.39
1	AA	233	C	N3-C4	7.73	1.39	1.33
35	BB	1897	G	C6-N1	7.73	1.45	1.39
35	BB	2669	G	C2-N3	7.73	1.39	1.32
35	BB	2869	G	N1-C2	7.73	1.44	1.37
1	AA	836	G	N7-C5	-7.73	1.34	1.39
35	BB	360	U	C2'-C1'	-7.73	1.44	1.53
35	BB	1571	A	C6-N1	-7.73	1.30	1.35
35	BB	1766	G	C8-N7	-7.73	1.26	1.30
1	AA	424	G	N3-C4	-7.72	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1395	C	C2-N3	7.72	1.42	1.35
35	BB	604	G	C2'-C1'	-7.72	1.44	1.53
35	BB	609	A	C5-C6	-7.72	1.34	1.41
35	BB	2242	G	C6-N1	7.72	1.45	1.39
35	BB	2474	U	C2'-C1'	-7.72	1.44	1.53
35	BB	673	C	P-O5'	-7.72	1.52	1.59
35	BB	764	A	C5'-C4'	7.72	1.60	1.51
35	BB	2523	G	C2'-C1'	-7.72	1.44	1.53
1	AA	23	C	P-O5'	-7.72	1.52	1.59
1	AA	681	A	N9-C8	7.72	1.44	1.37
35	BB	43	G	N1-C2	7.72	1.44	1.37
35	BB	1074	G	C8-N7	-7.72	1.26	1.30
35	BB	1164	C	N3-C4	7.72	1.39	1.33
35	BB	1571	A	C2'-C1'	-7.72	1.44	1.53
35	BB	1773	A	N7-C5	-7.72	1.34	1.39
35	BB	2672	U	C4'-C3'	7.72	1.61	1.53
35	BB	2817	U	C2-N3	7.72	1.43	1.37
1	AA	1002	G	C2'-C1'	-7.72	1.44	1.53
1	AA	1178	G	P-O5'	-7.72	1.52	1.59
35	BB	217	A	C6-N6	7.72	1.40	1.33
35	BB	1228	G	P-O5'	7.72	1.67	1.59
35	BB	2450	A	C6-N6	7.72	1.40	1.33
35	BB	2569	G	N7-C5	-7.72	1.34	1.39
1	AA	511	C	C4-C5	7.71	1.49	1.43
35	BB	663	G	C5-C4	-7.71	1.32	1.38
35	BB	1057	A	C4'-C3'	-7.71	1.44	1.53
35	BB	1205	A	C2'-C1'	-7.71	1.44	1.53
35	BB	1490	A	N9-C4	-7.71	1.33	1.37
35	BB	2047	C	P-O5'	-7.71	1.52	1.59
35	BB	2317	A	P-O5'	-7.71	1.52	1.59
35	BB	1755	A	C6-N6	7.71	1.40	1.33
1	AA	537	G	C5-C6	-7.71	1.34	1.42
35	BB	38	A	C6-N1	7.71	1.41	1.35
35	BB	128	C	N1-C6	7.71	1.41	1.37
35	BB	1320	C	C4-N4	7.71	1.40	1.33
35	BB	454	A	C6-N6	7.71	1.40	1.33
35	BB	2297	A	N3-C4	7.71	1.39	1.34
35	BB	2346	A	C6-N1	7.71	1.41	1.35
1	AA	497	G	C8-N7	7.71	1.35	1.30
1	AA	607	A	C6-N6	7.71	1.40	1.33
1	AA	1183	U	C1'-N1	7.71	1.60	1.48
1	AA	1197	A	N3-C4	-7.71	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	255	A	N9-C4	7.71	1.42	1.37
35	BB	1317	G	N9-C4	-7.71	1.31	1.38
35	BB	1763	G	C4'-C3'	7.71	1.61	1.53
35	BB	2045	C	C2'-C1'	-7.71	1.44	1.53
35	BB	2724	U	C4'-C3'	-7.71	1.44	1.53
1	AA	1430	A	O3'-P	-7.71	1.51	1.61
1	AA	404	G	C3'-C2'	7.70	1.61	1.52
1	AA	570	G	C6-N1	7.70	1.45	1.39
1	AA	1164	G	C2'-C1'	-7.70	1.44	1.53
1	AA	1281	C	C4-N4	7.70	1.40	1.33
34	BA	42	C	N1-C6	-7.70	1.32	1.37
35	BB	2744	G	N7-C5	-7.70	1.34	1.39
35	BB	2841	C	C3'-C2'	-7.70	1.44	1.52
1	AA	1242	G	C2'-C1'	-7.70	1.44	1.53
1	AA	150	U	C2-N3	7.70	1.43	1.37
35	BB	35	G	N1-C2	7.70	1.44	1.37
1	AA	491	G	C2'-C1'	-7.70	1.44	1.53
1	AA	1166	G	N7-C5	-7.70	1.34	1.39
34	BA	46	A	C6-N6	7.70	1.40	1.33
35	BB	132	G	C8-N7	-7.70	1.26	1.30
35	BB	489	G	N3-C4	-7.70	1.30	1.35
1	AA	97	G	C5'-C4'	7.70	1.60	1.51
1	AA	629	A	C6-N1	7.70	1.41	1.35
1	AA	1033	G	C4'-C3'	7.70	1.61	1.53
1	AA	1134	G	C2-N3	7.70	1.39	1.32
35	BB	195	A	C4'-C3'	7.70	1.61	1.53
35	BB	224	U	N1-C2	-7.70	1.31	1.38
35	BB	614	A	N3-C4	7.70	1.39	1.34
35	BB	1235	G	N3-C4	-7.70	1.30	1.35
35	BB	1246	A	C2'-C1'	-7.70	1.44	1.53
35	BB	1871	A	C6-N6	7.70	1.40	1.33
35	BB	539	G	C2'-C1'	-7.69	1.44	1.53
35	BB	602	A	C2-N3	7.69	1.40	1.33
35	BB	922	C	C4-N4	7.69	1.40	1.33
35	BB	2082	A	N9-C4	-7.69	1.33	1.37
1	AA	35	G	C6-N1	7.69	1.45	1.39
35	BB	629	G	N7-C5	-7.69	1.34	1.39
35	BB	1283	G	C2-N2	7.69	1.42	1.34
35	BB	1470	A	C8-N7	-7.69	1.26	1.31
35	BB	2255	G	P-O5'	-7.69	1.52	1.59
8	AH	76	ARG	CZ-NH1	7.69	1.43	1.33
34	BA	42	C	C4-C5	7.69	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1117	C	C5'-C4'	7.69	1.60	1.51
35	BB	1234	U	C3'-C2'	-7.69	1.44	1.52
35	BB	1320	C	O3'-P	-7.69	1.51	1.61
35	BB	1589	U	C4'-C3'	7.69	1.61	1.53
35	BB	2157	G	C2-N2	7.69	1.42	1.34
1	AA	807	A	C6-N6	7.69	1.40	1.33
35	BB	1046	A	N7-C5	-7.69	1.34	1.39
35	BB	1637	A	N9-C8	7.69	1.44	1.37
35	BB	2453	A	P-O5'	-7.69	1.52	1.59
35	BB	2678	C	O3'-P	-7.69	1.51	1.61
1	AA	1317	C	N3-C4	7.69	1.39	1.33
35	BB	2784	U	C2-N3	7.69	1.43	1.37
1	AA	57	G	N3-C4	-7.68	1.30	1.35
1	AA	276	G	C6-N1	-7.68	1.34	1.39
35	BB	1286	A	N7-C5	-7.68	1.34	1.39
35	BB	1967	C	C4-N4	7.68	1.40	1.33
35	BB	2080	A	C8-N7	-7.68	1.26	1.31
35	BB	2823	A	N1-C2	7.68	1.41	1.34
35	BB	686	U	N1-C2	7.68	1.45	1.38
35	BB	1653	G	O3'-P	-7.68	1.51	1.61
1	AA	627	G	N9-C8	7.68	1.43	1.37
35	BB	945	A	C6-N1	7.68	1.41	1.35
35	BB	1341	G	C4'-C3'	7.68	1.61	1.53
1	AA	577	G	C3'-C2'	-7.68	1.44	1.52
35	BB	676	A	N9-C4	-7.68	1.33	1.37
35	BB	1471	G	C2-N2	7.68	1.42	1.34
35	BB	1650	A	C8-N7	7.68	1.36	1.31
35	BB	2558	C	C4-C5	7.68	1.49	1.43
1	AA	28	A	C5-C4	7.68	1.44	1.38
1	AA	681	A	N7-C5	-7.68	1.34	1.39
1	AA	1011	C	C4-N4	7.68	1.40	1.33
1	AA	806	C	N3-C4	7.68	1.39	1.33
35	BB	293	U	O3'-P	-7.68	1.51	1.61
1	AA	1216	A	N7-C5	-7.67	1.34	1.39
35	BB	540	C	N3-C4	7.67	1.39	1.33
35	BB	2816	G	C5-C4	7.67	1.43	1.38
35	BB	487	C	C4-C5	-7.67	1.36	1.43
35	BB	1684	G	N7-C5	-7.67	1.34	1.39
35	BB	1952	A	N7-C5	-7.67	1.34	1.39
35	BB	2110	G	C8-N7	7.67	1.35	1.30
1	AA	841	C	P-O5'	7.67	1.67	1.59
35	BB	1379	U	C5'-C4'	7.67	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1021	A	C5-C4	7.67	1.44	1.38
35	BB	659	G	N1-C2	7.67	1.43	1.37
35	BB	1867	G	C8-N7	7.67	1.35	1.30
35	BB	2365	G	N9-C8	-7.67	1.32	1.37
1	AA	289	G	N9-C8	7.67	1.43	1.37
1	AA	559	A	N9-C8	7.67	1.43	1.37
1	AA	1050	G	N1-C2	7.67	1.43	1.37
35	BB	650	C	C4-N4	7.67	1.40	1.33
35	BB	2024	G	C6-N1	7.67	1.45	1.39
1	AA	1224	U	N3-C4	7.67	1.45	1.38
35	BB	1097	U	C5-C6	-7.67	1.27	1.34
1	AA	1516	G	C5'-C4'	7.66	1.60	1.51
35	BB	530	G	C4'-C3'	-7.66	1.44	1.53
35	BB	1368	G	C8-N7	-7.66	1.26	1.30
1	AA	264	C	C1'-N1	7.66	1.60	1.48
35	BB	705	A	N7-C5	-7.66	1.34	1.39
35	BB	1465	G	N1-C2	7.66	1.43	1.37
35	BB	2391	G	N1-C2	7.66	1.43	1.37
35	BB	2537	U	C2'-C1'	-7.66	1.45	1.53
35	BB	2764	A	C2-N3	-7.66	1.26	1.33
1	AA	752	G	C5-C4	-7.66	1.32	1.38
1	AA	770	C	N3-C4	7.66	1.39	1.33
34	BA	76	G	C3'-C2'	7.66	1.61	1.52
35	BB	885	C	C3'-C2'	-7.66	1.44	1.52
35	BB	2315	G	C6-N1	7.66	1.45	1.39
1	AA	467	U	C5-C6	7.66	1.41	1.34
19	AS	54	ARG	NE-CZ	7.66	1.43	1.33
35	BB	549	G	N7-C5	-7.66	1.34	1.39
35	BB	655	A	C4'-C3'	7.66	1.61	1.53
35	BB	1355	G	C2-N3	7.66	1.38	1.32
35	BB	1530	G	P-O5'	-7.66	1.52	1.59
35	BB	2046	G	C2-N3	7.66	1.38	1.32
1	AA	76	G	C6-N1	7.65	1.45	1.39
1	AA	538	G	C2-N2	7.65	1.42	1.34
35	BB	280	U	C2-N3	7.65	1.43	1.37
35	BB	346	A	C8-N7	-7.65	1.26	1.31
35	BB	616	A	C2-N3	7.65	1.40	1.33
35	BB	2012	G	N1-C2	7.65	1.43	1.37
1	AA	226	G	N1-C2	7.65	1.43	1.37
1	AA	634	C	C3'-C2'	-7.65	1.44	1.52
1	AA	1409	C	C4-C5	7.65	1.49	1.43
35	BB	1577	C	N1-C6	7.65	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2204	G	C2-N2	7.65	1.42	1.34
1	AA	381	C	C4-N4	7.65	1.40	1.33
1	AA	712	A	C6-N1	7.65	1.41	1.35
35	BB	1631	G	P-O5'	-7.65	1.52	1.59
1	AA	69	G	N1-C2	7.65	1.43	1.37
35	BB	946	C	C2'-C1'	-7.65	1.45	1.53
1	AA	410	G	C8-N7	-7.65	1.26	1.30
1	AA	688	G	P-O5'	-7.65	1.52	1.59
1	AA	780	A	C8-N7	-7.65	1.26	1.31
35	BB	2369	A	N7-C5	-7.65	1.34	1.39
1	AA	541	G	N9-C4	-7.65	1.31	1.38
1	AA	829	G	C2-N3	7.65	1.38	1.32
35	BB	1678	A	O3'-P	-7.65	1.51	1.61
34	BA	16	G	N1-C2	7.64	1.43	1.37
35	BB	350	G	O3'-P	-7.64	1.51	1.61
35	BB	1143	A	N9-C4	7.64	1.42	1.37
35	BB	1702	G	N1-C2	7.64	1.43	1.37
35	BB	1787	A	C6-N6	7.64	1.40	1.33
35	BB	2010	G	N1-C2	7.64	1.43	1.37
35	BB	2664	G	N1-C2	7.64	1.43	1.37
1	AA	1361	G	O4'-C1'	7.64	1.51	1.41
35	BB	172	A	N1-C2	7.64	1.41	1.34
35	BB	1709	U	C2-N3	7.64	1.43	1.37
35	BB	2168	G	C2'-C1'	-7.64	1.45	1.53
35	BB	2731	G	N7-C5	-7.64	1.34	1.39
34	BA	104	A	C6-N6	7.64	1.40	1.33
35	BB	2611	C	C4-N4	7.64	1.40	1.33
1	AA	457	G	C8-N7	-7.64	1.26	1.30
35	BB	350	G	N9-C8	-7.64	1.32	1.37
35	BB	2358	A	C2'-C1'	-7.64	1.45	1.53
35	BB	2487	G	C5-C6	-7.64	1.34	1.42
1	AA	74	A	N7-C5	-7.64	1.34	1.39
35	BB	107	G	C4'-C3'	-7.64	1.44	1.53
35	BB	2355	G	N1-C2	7.64	1.43	1.37
35	BB	2561	U	N3-C4	7.64	1.45	1.38
35	BB	620	G	N1-C2	7.64	1.43	1.37
35	BB	1975	G	N1-C2	7.64	1.43	1.37
35	BB	2864	G	N1-C2	7.64	1.43	1.37
35	BB	1628	G	C2'-C1'	-7.63	1.45	1.53
35	BB	2241	A	C2'-C1'	-7.63	1.45	1.53
1	AA	968	A	N3-C4	7.63	1.39	1.34
35	BB	22	C	N1-C6	7.63	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2524	G	C6-N1	7.63	1.44	1.39
1	AA	484	G	N7-C5	-7.63	1.34	1.39
1	AA	1402	C	C3'-C2'	-7.63	1.44	1.52
35	BB	5	A	C5-C6	-7.63	1.34	1.41
35	BB	242	G	C2-N3	7.63	1.38	1.32
35	BB	2268	A	N9-C4	-7.63	1.33	1.37
1	AA	628	G	O3'-P	-7.63	1.51	1.61
35	BB	1309	G	N1-C2	7.63	1.43	1.37
1	AA	293	G	C5-C4	7.63	1.43	1.38
1	AA	643	C	N3-C4	7.63	1.39	1.33
35	BB	217	A	C5-C4	-7.63	1.33	1.38
35	BB	638	G	C2-N3	7.63	1.38	1.32
1	AA	344	A	C6-N1	7.63	1.40	1.35
1	AA	844	G	N3-C4	7.63	1.40	1.35
12	AL	69	GLU	CD-OE1	7.63	1.34	1.25
35	BB	2550	G	C8-N7	-7.63	1.26	1.30
35	BB	2626	C	O3'-P	-7.63	1.51	1.61
35	BB	2696	U	C2-N3	7.63	1.43	1.37
35	BB	896	A	C6-N1	7.62	1.40	1.35
35	BB	1396	U	C4-O4	-7.62	1.17	1.23
35	BB	910	A	N7-C5	-7.62	1.34	1.39
35	BB	2483	C	C2-N3	7.62	1.41	1.35
1	AA	258	G	N7-C5	-7.62	1.34	1.39
1	AA	550	G	N9-C4	7.62	1.44	1.38
1	AA	1205	U	C4'-C3'	7.62	1.61	1.53
35	BB	605	G	N9-C8	-7.62	1.32	1.37
35	BB	1878	G	N7-C5	-7.62	1.34	1.39
35	BB	359	G	C2-N3	7.62	1.38	1.32
35	BB	2590	A	N9-C4	7.62	1.42	1.37
1	AA	59	A	C5-C6	-7.62	1.34	1.41
1	AA	428	G	C2-N3	7.62	1.38	1.32
1	AA	1446	A	N9-C8	-7.62	1.31	1.37
1	AA	1467	C	C3'-O3'	7.62	1.52	1.42
35	BB	555	G	N3-C4	-7.62	1.30	1.35
35	BB	1615	C	C4-N4	7.62	1.40	1.33
35	BB	1985	C	C4-N4	7.62	1.40	1.33
35	BB	2686	G	N7-C5	-7.62	1.34	1.39
1	AA	558	G	N1-C2	7.62	1.43	1.37
1	AA	346	G	N7-C5	-7.62	1.34	1.39
35	BB	74	A	N3-C4	-7.62	1.30	1.34
35	BB	845	A	N1-C2	7.62	1.41	1.34
35	BB	300	A	C5-C6	-7.61	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	822	G	N7-C5	-7.61	1.34	1.39
35	BB	2391	G	C6-N1	7.61	1.44	1.39
1	AA	183	C	O3'-P	-7.61	1.52	1.61
1	AA	609	A	N7-C5	-7.61	1.34	1.39
35	BB	697	G	C2-N3	7.61	1.38	1.32
35	BB	2414	G	P-O5'	-7.61	1.52	1.59
1	AA	441	A	C2'-C1'	-7.61	1.45	1.53
35	BB	1278	C	O3'-P	-7.61	1.52	1.61
35	BB	1299	G	N7-C5	-7.61	1.34	1.39
35	BB	1308	A	O3'-P	-7.61	1.52	1.61
35	BB	2639	A	C3'-C2'	-7.61	1.44	1.52
1	AA	1245	C	P-O5'	-7.61	1.52	1.59
35	BB	541	A	C5-C4	7.61	1.44	1.38
35	BB	1609	A	C6-N6	7.61	1.40	1.33
35	BB	1891	G	C2-N2	7.61	1.42	1.34
35	BB	2381	A	P-O5'	-7.61	1.52	1.59
1	AA	158	G	N9-C4	-7.60	1.31	1.38
35	BB	366	C	C2'-C1'	-7.60	1.45	1.53
35	BB	1119	U	P-O5'	-7.60	1.52	1.59
35	BB	1177	G	C6-N1	7.60	1.44	1.39
1	AA	127	G	C5-C6	-7.60	1.34	1.42
1	AA	327	A	N7-C5	-7.60	1.34	1.39
1	AA	1186	G	C3'-C2'	-7.60	1.44	1.52
35	BB	2722	G	N1-C2	7.60	1.43	1.37
35	BB	978	G	C2-N3	7.60	1.38	1.32
35	BB	1663	G	N7-C5	-7.60	1.34	1.39
1	AA	162	A	C5'-C4'	7.60	1.60	1.51
35	BB	1138	G	N7-C5	-7.60	1.34	1.39
35	BB	1456	G	N7-C5	-7.60	1.34	1.39
35	BB	2062	A	C6-N1	7.60	1.40	1.35
35	BB	2355	G	N7-C5	-7.60	1.34	1.39
1	AA	140	U	P-O5'	-7.60	1.52	1.59
35	BB	1020	A	C2'-C1'	-7.60	1.45	1.53
35	BB	1135	C	N3-C4	7.60	1.39	1.33
35	BB	2097	A	C4'-O4'	7.60	1.55	1.45
35	BB	2859	G	O3'-P	-7.60	1.52	1.61
35	BB	1075	C	C2-N3	7.60	1.41	1.35
1	AA	1255	G	N3-C4	-7.59	1.30	1.35
35	BB	1867	G	C2-N3	7.59	1.38	1.32
35	BB	2488	G	N9-C8	7.59	1.43	1.37
1	AA	434	U	N3-C4	7.59	1.45	1.38
34	BA	35	C	N3-C4	7.59	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	99	U	O3'-P	-7.59	1.52	1.61
35	BB	2822	G	N9-C4	7.59	1.44	1.38
1	AA	455	G	P-O5'	-7.59	1.52	1.59
35	BB	108	G	C6-N1	7.59	1.44	1.39
35	BB	2368	C	N3-C4	7.59	1.39	1.33
35	BB	2555	U	C4'-O4'	7.59	1.55	1.45
35	BB	350	G	P-O5'	-7.59	1.52	1.59
35	BB	1154	G	C5-C4	7.59	1.43	1.38
22	AV	6	C	C4-C5	-7.59	1.36	1.43
35	BB	487	C	C4-N4	7.59	1.40	1.33
35	BB	1941	C	N3-C4	7.59	1.39	1.33
1	AA	108	G	C2-N3	7.59	1.38	1.32
35	BB	993	G	N9-C8	7.59	1.43	1.37
35	BB	1208	C	N1-C6	-7.59	1.32	1.37
35	BB	2845	U	C4-O4	7.59	1.29	1.23
35	BB	1100	C	P-O5'	7.58	1.67	1.59
35	BB	1420	A	C6-N6	7.58	1.40	1.33
1	AA	214	C	N3-C4	7.58	1.39	1.33
35	BB	747	U	C5'-C4'	7.58	1.60	1.51
35	BB	1952	A	C6-N1	7.58	1.40	1.35
35	BB	2708	G	C8-N7	-7.58	1.26	1.30
35	BB	518	G	C8-N7	-7.58	1.26	1.30
35	BB	823	C	N1-C6	-7.58	1.32	1.37
35	BB	1160	G	C2'-C1'	-7.58	1.45	1.53
35	BB	1864	U	N3-C4	7.58	1.45	1.38
35	BB	2398	U	P-O5'	-7.58	1.52	1.59
35	BB	1752	C	P-O5'	-7.58	1.52	1.59
1	AA	515	G	N1-C2	7.58	1.43	1.37
35	BB	729	G	N7-C5	-7.58	1.34	1.39
35	BB	1664	A	N3-C4	-7.58	1.30	1.34
35	BB	1713	A	N9-C4	-7.58	1.33	1.37
35	BB	1977	A	C2'-C1'	-7.58	1.45	1.53
1	AA	428	G	C6-N1	7.58	1.44	1.39
35	BB	196	A	N3-C4	-7.58	1.30	1.34
35	BB	648	G	C5'-C4'	7.58	1.60	1.51
35	BB	1165	A	C2'-C1'	-7.58	1.45	1.53
35	BB	2263	C	N3-C4	7.58	1.39	1.33
1	AA	1199	U	N3-C4	7.57	1.45	1.38
35	BB	511	U	O3'-P	-7.57	1.52	1.61
35	BB	769	U	O3'-P	-7.57	1.52	1.61
35	BB	1081	U	C5'-C4'	7.57	1.60	1.51
1	AA	264	C	N3-C4	7.57	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1360	A	C5'-C4'	7.57	1.60	1.51
35	BB	2	G	C2'-C1'	-7.57	1.45	1.53
35	BB	197	A	N7-C5	-7.57	1.34	1.39
35	BB	926	G	N7-C5	-7.57	1.34	1.39
35	BB	1369	G	N7-C5	7.57	1.43	1.39
1	AA	1523	G	N1-C2	7.57	1.43	1.37
35	BB	1973	G	P-O5'	-7.57	1.52	1.59
35	BB	2434	A	C6-N6	7.57	1.40	1.33
1	AA	476	U	P-O5'	-7.57	1.52	1.59
1	AA	938	A	C5-C4	7.57	1.44	1.38
1	AA	946	A	C6-N1	7.57	1.40	1.35
35	BB	1606	C	C4-N4	7.57	1.40	1.33
35	BB	2847	U	C2-N3	7.57	1.43	1.37
1	AA	46	G	N9-C8	7.56	1.43	1.37
1	AA	1462	C	C2'-C1'	-7.56	1.45	1.53
35	BB	879	G	C2-N3	7.56	1.38	1.32
35	BB	1181	U	N1-C2	7.56	1.45	1.38
35	BB	1785	A	N9-C4	-7.56	1.33	1.37
1	AA	130	A	C8-N7	-7.56	1.26	1.31
35	BB	255	A	N7-C5	-7.56	1.34	1.39
35	BB	2580	U	O3'-P	-7.56	1.52	1.61
1	AA	632	U	C2-N3	7.56	1.43	1.37
1	AA	685	G	C2-N3	7.56	1.38	1.32
35	BB	1455	G	N9-C8	-7.56	1.32	1.37
35	BB	1831	G	N7-C5	-7.56	1.34	1.39
35	BB	1838	C	C4-N4	7.56	1.40	1.33
35	BB	2213	U	C2'-C1'	-7.56	1.45	1.53
35	BB	2692	G	C2-N3	7.56	1.38	1.32
1	AA	81	A	P-O5'	-7.56	1.52	1.59
1	AA	429	U	N1-C6	7.55	1.44	1.38
1	AA	1098	C	N3-C4	7.55	1.39	1.33
22	AV	72	G	C2-N2	7.55	1.42	1.34
35	BB	575	A	N3-C4	-7.55	1.30	1.34
35	BB	1787	A	C5-C4	7.55	1.44	1.38
1	AA	512	U	N3-C4	7.55	1.45	1.38
1	AA	1481	U	C5'-C4'	7.55	1.60	1.51
35	BB	342	A	O3'-P	-7.55	1.52	1.61
35	BB	2102	G	P-O5'	-7.55	1.52	1.59
35	BB	2298	A	N3-C4	-7.55	1.30	1.34
35	BB	2311	A	C4'-O4'	-7.55	1.35	1.45
1	AA	466	A	N7-C5	-7.55	1.34	1.39
1	AA	667	G	C2'-C1'	-7.55	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	858	G	C8-N7	7.55	1.35	1.30
35	BB	1805	A	C8-N7	-7.55	1.26	1.31
35	BB	2357	G	N3-C4	-7.55	1.30	1.35
35	BB	408	G	C6-N1	7.55	1.44	1.39
35	BB	259	G	N1-C2	7.55	1.43	1.37
35	BB	663	G	N9-C4	7.55	1.44	1.38
35	BB	1359	A	C2'-C1'	-7.55	1.45	1.53
35	BB	2744	G	C5-C4	-7.55	1.33	1.38
35	BB	2790	U	P-O5'	-7.55	1.52	1.59
1	AA	910	C	C2'-C1'	-7.54	1.45	1.53
35	BB	926	G	N9-C8	7.54	1.43	1.37
1	AA	215	C	C4'-C3'	7.54	1.61	1.53
1	AA	349	A	N1-C2	7.54	1.41	1.34
1	AA	1141	C	C5'-C4'	7.54	1.60	1.51
22	AV	3	G	N9-C4	7.54	1.44	1.38
35	BB	217	A	P-O5'	-7.54	1.52	1.59
35	BB	576	U	N3-C4	7.54	1.45	1.38
35	BB	889	C	C5'-C4'	7.54	1.60	1.51
1	AA	164	G	N9-C8	-7.54	1.32	1.37
1	AA	664	G	C8-N7	7.54	1.35	1.30
1	AA	803	G	C4'-C3'	7.54	1.61	1.53
1	AA	1071	C	C5'-C4'	7.54	1.60	1.51
35	BB	813	U	N1-C2	7.54	1.45	1.38
35	BB	118	A	C5-C4	7.54	1.44	1.38
35	BB	730	A	C5'-C4'	-7.54	1.42	1.51
35	BB	2505	G	C2'-C1'	-7.54	1.45	1.53
35	BB	2567	G	N1-C2	7.54	1.43	1.37
35	BB	1598	A	C5-C4	7.54	1.44	1.38
35	BB	1935	G	N1-C2	7.54	1.43	1.37
1	AA	771	G	C2-N3	7.54	1.38	1.32
1	AA	1259	C	C4-N4	7.54	1.40	1.33
35	BB	1529	G	C2-N2	7.54	1.42	1.34
35	BB	2059	A	N3-C4	-7.54	1.30	1.34
1	AA	813	U	C4'-C3'	-7.53	1.44	1.53
35	BB	878	A	C6-N6	7.53	1.40	1.33
35	BB	1844	C	C4-C5	7.53	1.49	1.43
35	BB	2765	A	N7-C5	-7.53	1.34	1.39
1	AA	39	G	N1-C2	7.53	1.43	1.37
34	BA	42	C	O4'-C1'	7.53	1.51	1.41
35	BB	2895	G	C5-C4	7.53	1.43	1.38
1	AA	670	G	C6-N1	7.53	1.44	1.39
35	BB	657	U	N3-C4	7.53	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2528	U	C5'-C4'	7.53	1.60	1.51
35	BB	1780	A	C5'-C4'	7.53	1.60	1.51
35	BB	1930	G	C8-N7	-7.53	1.26	1.30
35	BB	2758	A	N9-C8	-7.53	1.31	1.37
1	AA	62	U	C2'-C1'	-7.53	1.45	1.53
1	AA	477	C	N3-C4	7.53	1.39	1.33
35	BB	1024	G	C8-N7	-7.53	1.26	1.30
35	BB	476	G	N9-C4	-7.52	1.31	1.38
35	BB	1127	A	O3'-P	-7.52	1.52	1.61
35	BB	1424	G	C8-N7	-7.52	1.26	1.30
35	BB	2660	A	C8-N7	-7.52	1.26	1.31
1	AA	551	U	P-O5'	-7.52	1.52	1.59
1	AA	979	C	P-O5'	-7.52	1.52	1.59
35	BB	472	A	N7-C5	-7.52	1.34	1.39
35	BB	920	A	C4'-C3'	7.52	1.61	1.53
35	BB	1682	G	N9-C8	7.52	1.43	1.37
1	AA	959	A	C6-N6	7.52	1.40	1.33
35	BB	633	A	C5-C4	7.52	1.44	1.38
35	BB	1179	G	C2-N2	7.52	1.42	1.34
1	AA	1193	G	C2-N3	7.52	1.38	1.32
1	AA	1263	C	C2-O2	-7.52	1.17	1.24
35	BB	739	A	C2'-C1'	-7.52	1.45	1.53
35	BB	1073	A	C3'-C2'	7.52	1.61	1.52
35	BB	1198	U	C4'-C3'	7.52	1.61	1.53
35	BB	1593	A	C8-N7	7.52	1.36	1.31
35	BB	1727	C	C5'-C4'	7.52	1.60	1.51
1	AA	341	C	C2-N3	-7.52	1.29	1.35
1	AA	980	C	C4'-C3'	-7.52	1.44	1.53
1	AA	971	G	N7-C5	-7.51	1.34	1.39
35	BB	2840	C	C4'-C3'	7.51	1.61	1.53
35	BB	1419	A	N9-C8	-7.51	1.31	1.37
35	BB	1649	G	N7-C5	-7.51	1.34	1.39
1	AA	205	A	C6-N6	7.51	1.40	1.33
1	AA	903	G	N7-C5	-7.51	1.34	1.39
35	BB	953	G	P-O5'	-7.51	1.52	1.59
1	AA	594	U	C4-O4	7.51	1.29	1.23
1	AA	1306	A	C8-N7	-7.51	1.26	1.31
1	AA	1317	C	C2-N3	7.51	1.41	1.35
35	BB	2416	C	C5'-C4'	7.51	1.60	1.51
35	BB	2589	A	C6-N6	7.51	1.40	1.33
1	AA	221	C	N1-C6	7.51	1.41	1.37
1	AA	1213	A	N9-C4	7.51	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	468	G	O3'-P	-7.51	1.52	1.61
1	AA	1521	C	N1-C6	-7.51	1.32	1.37
35	BB	76	C	N3-C4	7.51	1.39	1.33
35	BB	1111	A	N7-C5	-7.51	1.34	1.39
35	BB	1133	A	O5'-C5'	7.51	1.56	1.44
35	BB	1682	G	C5-C6	-7.51	1.34	1.42
35	BB	2236	U	P-O5'	7.51	1.67	1.59
35	BB	2300	C	N3-C4	7.51	1.39	1.33
1	AA	1396	A	C5'-C4'	7.50	1.60	1.51
35	BB	1394	U	C4-C5	7.50	1.50	1.43
35	BB	2373	G	C5-C6	7.50	1.49	1.42
35	BB	2508	G	N7-C5	-7.50	1.34	1.39
1	AA	731	G	C5'-C4'	7.50	1.60	1.51
1	AA	1042	A	C8-N7	-7.50	1.26	1.31
35	BB	147	C	C4-C5	-7.50	1.36	1.43
35	BB	756	A	C6-N1	7.50	1.40	1.35
35	BB	819	A	C2'-C1'	-7.50	1.45	1.53
35	BB	1750	G	P-O5'	-7.50	1.52	1.59
1	AA	649	A	N1-C2	-7.50	1.27	1.34
1	AA	784	A	C4'-O4'	-7.50	1.35	1.45
35	BB	395	U	N1-C2	7.50	1.45	1.38
50	BQ	91	ARG	CZ-NH1	7.50	1.42	1.33
1	AA	298	A	C5'-C4'	7.50	1.60	1.51
1	AA	430	A	N9-C4	-7.50	1.33	1.37
1	AA	709	U	C2'-C1'	-7.50	1.45	1.53
35	BB	2511	U	C5'-C4'	7.50	1.60	1.51
35	BB	2517	C	C4-C5	7.50	1.49	1.43
35	BB	2623	G	N1-C2	7.50	1.43	1.37
35	BB	500	G	C6-N1	7.50	1.44	1.39
1	AA	1373	G	C6-N1	7.49	1.44	1.39
1	AA	1381	U	P-O5'	-7.49	1.52	1.59
35	BB	149	A	N9-C4	-7.49	1.33	1.37
35	BB	1451	C	N3-C4	7.49	1.39	1.33
35	BB	1469	A	N1-C2	7.49	1.41	1.34
35	BB	1552	A	C5-C4	7.49	1.44	1.38
1	AA	27	G	C6-N1	7.49	1.44	1.39
1	AA	1403	C	C4-C5	7.49	1.49	1.43
1	AA	431	A	N7-C5	-7.49	1.34	1.39
1	AA	765	G	C2'-C1'	-7.49	1.45	1.53
1	AA	1348	U	C2-N3	7.49	1.43	1.37
35	BB	340	A	N7-C5	-7.49	1.34	1.39
35	BB	1971	U	C5'-C4'	7.49	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	550	G	N1-C2	7.49	1.43	1.37
1	AA	1251	A	C5-C4	-7.49	1.33	1.38
35	BB	203	A	C2'-C1'	-7.49	1.45	1.53
35	BB	1006	C	C2-N3	7.49	1.41	1.35
35	BB	1055	G	C5'-C4'	7.49	1.60	1.51
35	BB	1134	A	C3'-C2'	7.49	1.61	1.52
35	BB	1431	A	C2-N3	7.49	1.40	1.33
35	BB	2549	G	N7-C5	-7.49	1.34	1.39
35	BB	2761	A	P-O5'	-7.49	1.52	1.59
35	BB	1323	C	P-O5'	-7.49	1.52	1.59
35	BB	2713	U	O3'-P	-7.49	1.52	1.61
1	AA	6	G	N1-C2	7.49	1.43	1.37
1	AA	793	U	C2-N3	7.49	1.43	1.37
1	AA	1398	A	N9-C4	7.49	1.42	1.37
35	BB	1354	A	N3-C4	7.49	1.39	1.34
35	BB	1378	A	C6-N1	7.49	1.40	1.35
35	BB	2758	A	N3-C4	-7.49	1.30	1.34
1	AA	861	G	N9-C4	-7.48	1.31	1.38
1	AA	1093	A	C5-C4	-7.48	1.33	1.38
35	BB	1914	C	N1-C6	7.48	1.41	1.37
35	BB	2538	C	C4'-C3'	7.48	1.61	1.53
1	AA	394	G	C8-N7	-7.48	1.26	1.30
1	AA	1424	U	P-O5'	-7.48	1.52	1.59
35	BB	580	U	C4'-C3'	7.48	1.61	1.53
1	AA	517	G	N7-C5	-7.48	1.34	1.39
1	AA	557	G	C4'-C3'	-7.48	1.45	1.53
1	AA	646	G	C2'-C1'	-7.48	1.45	1.53
35	BB	219	A	C5'-C4'	7.48	1.60	1.51
35	BB	385	C	C4-C5	7.48	1.49	1.43
1	AA	1444	U	C2'-C1'	-7.48	1.45	1.53
35	BB	882	G	N1-C2	7.48	1.43	1.37
35	BB	1034	G	C5'-C4'	7.48	1.60	1.51
35	BB	1557	C	C5-C6	7.48	1.40	1.34
35	BB	1930	G	C4'-C3'	7.48	1.61	1.53
35	BB	1970	A	N1-C2	7.48	1.41	1.34
35	BB	2895	G	C5-C6	-7.48	1.34	1.42
1	AA	1329	A	N3-C4	-7.48	1.30	1.34
35	BB	1269	A	C2'-C1'	-7.48	1.45	1.53
1	AA	461	A	C4'-C3'	7.47	1.61	1.53
1	AA	823	C	C4'-O4'	7.47	1.55	1.45
35	BB	1268	A	N3-C4	7.47	1.39	1.34
35	BB	1430	G	N1-C2	7.47	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1444	G	C5'-C4'	7.47	1.60	1.51
1	AA	589	U	P-O5'	-7.47	1.52	1.59
35	BB	1489	C	C4-N4	7.47	1.40	1.33
35	BB	1171	G	N3-C4	7.47	1.40	1.35
35	BB	2703	C	N3-C4	7.47	1.39	1.33
1	AA	529	G	C2-N3	7.47	1.38	1.32
1	AA	1534	A	C5-C4	7.47	1.44	1.38
35	BB	370	G	C2-N3	7.47	1.38	1.32
35	BB	321	U	C4'-O4'	-7.47	1.35	1.45
35	BB	591	U	N1-C6	7.47	1.44	1.38
35	BB	1445	G	C8-N7	-7.47	1.26	1.30
1	AA	309	A	C3'-C2'	-7.46	1.44	1.52
1	AA	469	C	N3-C4	7.46	1.39	1.33
35	BB	859	G	N3-C4	7.46	1.40	1.35
35	BB	2108	A	N3-C4	7.46	1.39	1.34
35	BB	2439	A	C6-N6	7.46	1.40	1.33
1	AA	581	G	N3-C4	-7.46	1.30	1.35
35	BB	2560	A	N3-C4	-7.46	1.30	1.34
1	AA	849	G	N7-C5	-7.46	1.34	1.39
1	AA	1000	A	N9-C8	-7.46	1.31	1.37
1	AA	1053	G	C2'-C1'	-7.46	1.45	1.53
1	AA	1455	G	N9-C8	-7.46	1.32	1.37
35	BB	341	C	N3-C4	7.46	1.39	1.33
1	AA	865	A	C3'-O3'	7.46	1.52	1.42
1	AA	511	C	N3-C4	7.46	1.39	1.33
1	AA	1365	G	C4'-O4'	-7.46	1.35	1.45
35	BB	1031	G	C2'-C1'	-7.46	1.45	1.53
35	BB	2364	C	P-O5'	-7.46	1.52	1.59
1	AA	465	A	C2-N3	-7.46	1.26	1.33
1	AA	946	A	C8-N7	-7.46	1.26	1.31
35	BB	323	C	N3-C4	7.46	1.39	1.33
35	BB	809	G	C6-N1	7.46	1.44	1.39
35	BB	2427	C	C4-N4	7.46	1.40	1.33
35	BB	2573	C	C4-N4	7.46	1.40	1.33
1	AA	1430	A	C2'-C1'	-7.46	1.45	1.53
35	BB	2395	C	O3'-P	-7.46	1.52	1.61
1	AA	506	G	N7-C5	-7.45	1.34	1.39
1	AA	894	G	N1-C2	7.45	1.43	1.37
35	BB	853	C	C5'-C4'	7.45	1.60	1.51
35	BB	2677	G	C6-N1	7.45	1.44	1.39
35	BB	794	A	N9-C4	7.45	1.42	1.37
1	AA	27	G	N9-C4	-7.45	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1480	A	N9-C4	-7.45	1.33	1.37
35	BB	1779	U	C2-N3	7.45	1.43	1.37
35	BB	1164	C	C5-C6	7.45	1.40	1.34
35	BB	2072	C	P-O5'	-7.45	1.52	1.59
35	BB	2627	G	C3'-C2'	-7.45	1.44	1.52
1	AA	1111	A	C4'-C3'	7.45	1.61	1.53
35	BB	665	U	N3-C4	7.45	1.45	1.38
1	AA	142	G	C5'-C4'	7.45	1.60	1.51
35	BB	600	G	C5-C6	-7.45	1.34	1.42
1	AA	519	C	C4-N4	7.44	1.40	1.33
1	AA	1514	G	C5-C4	-7.44	1.33	1.38
1	AA	1426	G	C2-N3	7.44	1.38	1.32
35	BB	832	U	C2-N3	7.44	1.43	1.37
35	BB	1217	U	C5'-C4'	7.44	1.60	1.51
35	BB	2838	G	C2-N2	7.44	1.42	1.34
34	BA	76	G	N7-C5	-7.44	1.34	1.39
35	BB	1295	C	C4-N4	7.44	1.40	1.33
35	BB	1157	G	N3-C4	-7.44	1.30	1.35
35	BB	1238	G	C3'-C2'	7.44	1.61	1.52
35	BB	2138	G	N3-C4	7.44	1.40	1.35
1	AA	705	G	C5-C4	-7.44	1.33	1.38
35	BB	274	C	N3-C4	7.44	1.39	1.33
35	BB	2116	G	C2-N3	7.44	1.38	1.32
35	BB	479	A	C5-C4	7.44	1.44	1.38
35	BB	1585	C	P-O5'	-7.44	1.52	1.59
35	BB	1942	C	N1-C6	-7.44	1.32	1.37
1	AA	332	G	N7-C5	-7.43	1.34	1.39
1	AA	505	G	C2-N3	7.43	1.38	1.32
1	AA	1190	G	C5-C6	-7.43	1.34	1.42
1	AA	1435	G	C2-N2	7.43	1.42	1.34
35	BB	280	U	N1-C6	7.43	1.44	1.38
35	BB	751	A	C8-N7	-7.43	1.26	1.31
35	BB	819	A	C8-N7	-7.43	1.26	1.31
35	BB	1284	A	N7-C5	-7.43	1.34	1.39
1	AA	542	G	N3-C4	-7.43	1.30	1.35
1	AA	830	G	N9-C8	7.43	1.43	1.37
35	BB	649	G	C2-N3	7.43	1.38	1.32
35	BB	211	C	P-O5'	-7.43	1.52	1.59
35	BB	925	A	C6-N6	7.43	1.39	1.33
34	BA	18	G	N1-C2	7.43	1.43	1.37
35	BB	396	G	C2-N2	7.43	1.42	1.34
35	BB	532	A	O3'-P	-7.43	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1336	A	C2-N3	7.43	1.40	1.33
35	BB	1687	G	P-O5'	-7.43	1.52	1.59
35	BB	2483	C	C4-N4	7.43	1.40	1.33
1	AA	298	A	C5-C4	7.43	1.44	1.38
35	BB	2167	U	C4-O4	-7.43	1.17	1.23
35	BB	2464	G	N3-C4	-7.43	1.30	1.35
1	AA	300	A	C2'-C1'	-7.43	1.45	1.53
1	AA	864	A	C6-N6	7.43	1.39	1.33
1	AA	1222	G	N1-C2	7.43	1.43	1.37
35	BB	305	C	C4-N4	7.43	1.40	1.33
35	BB	574	A	C5'-C4'	7.43	1.60	1.51
35	BB	1938	A	O3'-P	-7.43	1.52	1.61
35	BB	2318	G	C4'-C3'	7.43	1.61	1.53
1	AA	1036	A	C8-N7	-7.42	1.26	1.31
1	AA	1096	C	C4-N4	7.42	1.40	1.33
35	BB	215	G	C2-N3	7.42	1.38	1.32
35	BB	2776	A	N9-C8	-7.42	1.31	1.37
35	BB	2856	A	N7-C5	-7.42	1.34	1.39
1	AA	703	G	C6-N1	7.42	1.44	1.39
1	AA	976	G	C2-N3	7.42	1.38	1.32
35	BB	730	A	N3-C4	7.42	1.39	1.34
35	BB	2135	A	C3'-C2'	-7.42	1.44	1.52
1	AA	1164	G	N1-C2	7.42	1.43	1.37
35	BB	1644	C	C4-C5	-7.42	1.37	1.43
35	BB	2326	C	C4-N4	7.42	1.40	1.33
35	BB	2823	A	C8-N7	-7.42	1.26	1.31
35	BB	173	A	C5'-C4'	7.42	1.60	1.51
35	BB	1279	G	C2-N3	7.42	1.38	1.32
1	AA	419	C	N1-C6	7.42	1.41	1.37
1	AA	911	U	P-O5'	-7.42	1.52	1.59
35	BB	1471	G	C8-N7	-7.42	1.26	1.30
35	BB	1877	A	N3-C4	-7.42	1.30	1.34
1	AA	79	G	N7-C5	-7.42	1.34	1.39
1	AA	777	A	C5-C4	7.42	1.44	1.38
35	BB	188	G	N9-C8	-7.42	1.32	1.37
35	BB	973	A	N3-C4	-7.42	1.30	1.34
35	BB	1884	G	C6-N1	7.42	1.44	1.39
35	BB	2592	G	N1-C2	7.42	1.43	1.37
35	BB	2821	A	N7-C5	-7.42	1.34	1.39
1	AA	920	U	C2-N3	-7.42	1.32	1.37
35	BB	1818	U	N3-C4	7.42	1.45	1.38
1	AA	614	C	C3'-C2'	7.41	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	426	C	N3-C4	7.41	1.39	1.33
35	BB	2009	A	N3-C4	-7.41	1.30	1.34
35	BB	2213	U	C5'-C4'	7.41	1.60	1.51
35	BB	309	A	N7-C5	-7.41	1.34	1.39
35	BB	804	A	C5'-C4'	7.41	1.60	1.51
1	AA	481	G	N9-C8	-7.41	1.32	1.37
1	AA	1044	A	O3'-P	-7.41	1.52	1.61
1	AA	1087	G	C8-N7	7.41	1.35	1.30
1	AA	1280	A	C5'-C4'	7.41	1.60	1.51
35	BB	480	A	N9-C4	-7.41	1.33	1.37
35	BB	1883	U	N3-C4	7.41	1.45	1.38
1	AA	267	C	P-O5'	-7.41	1.52	1.59
1	AA	391	G	C6-N1	7.41	1.44	1.39
15	AO	83	ARG	NE-CZ	7.41	1.42	1.33
35	BB	734	A	C6-N1	7.41	1.40	1.35
35	BB	1529	G	C5-C4	-7.41	1.33	1.38
35	BB	2427	C	C4-C5	7.41	1.48	1.43
1	AA	465	A	C5'-C4'	7.41	1.60	1.51
35	BB	804	A	N7-C5	-7.41	1.34	1.39
35	BB	2032	G	C2-N2	7.41	1.42	1.34
35	BB	2445	G	C2'-C1'	-7.41	1.45	1.53
1	AA	425	G	C2'-C1'	-7.41	1.45	1.53
1	AA	968	A	N7-C5	-7.41	1.34	1.39
35	BB	270	A	N9-C4	-7.41	1.33	1.37
35	BB	275	C	C4'-C3'	-7.41	1.45	1.53
35	BB	661	A	C6-N1	7.41	1.40	1.35
35	BB	1037	G	N7-C5	-7.41	1.34	1.39
35	BB	1660	G	N7-C5	-7.41	1.34	1.39
35	BB	2235	G	N3-C4	-7.41	1.30	1.35
1	AA	530	G	N9-C8	7.40	1.43	1.37
1	AA	965	U	C4-C5	7.40	1.50	1.43
35	BB	877	A	N9-C4	-7.40	1.33	1.37
35	BB	1136	G	N7-C5	7.40	1.43	1.39
35	BB	1505	A	N9-C4	7.40	1.42	1.37
35	BB	2446	G	N3-C4	-7.40	1.30	1.35
1	AA	994	A	O4'-C1'	7.40	1.51	1.41
1	AA	1118	U	C4-C5	7.40	1.50	1.43
1	AA	1469	C	C4-C5	7.40	1.48	1.43
35	BB	192	C	C2'-C1'	-7.40	1.45	1.53
35	BB	590	A	C3'-C2'	7.40	1.61	1.52
35	BB	1535	A	C2'-C1'	-7.40	1.45	1.53
35	BB	2056	G	C6-N1	7.40	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2643	G	O3'-P	-7.40	1.52	1.61
35	BB	2734	A	C5-C4	-7.40	1.33	1.38
35	BB	407	G	C8-N7	-7.40	1.26	1.30
35	BB	2351	G	C6-N1	7.40	1.44	1.39
1	AA	825	A	C6-N6	7.40	1.39	1.33
34	BA	22	U	P-O5'	-7.40	1.52	1.59
35	BB	308	G	C3'-C2'	-7.40	1.44	1.52
1	AA	132	C	N1-C6	7.40	1.41	1.37
34	BA	75	G	N9-C4	-7.40	1.32	1.38
35	BB	1576	U	C5-C6	7.40	1.40	1.34
35	BB	2245	U	O4'-C1'	-7.40	1.32	1.41
35	BB	2319	G	N9-C8	7.40	1.43	1.37
35	BB	2458	G	N1-C2	7.40	1.43	1.37
35	BB	2902	C	C2'-C1'	-7.40	1.45	1.53
1	AA	1068	G	N1-C2	7.40	1.43	1.37
1	AA	1473	G	C6-N1	7.40	1.44	1.39
34	BA	71	C	C2-N3	7.40	1.41	1.35
35	BB	531	C	C2'-C1'	-7.40	1.45	1.53
35	BB	2082	A	C2'-C1'	-7.40	1.45	1.53
35	BB	2135	A	N7-C5	-7.40	1.34	1.39
35	BB	2893	A	C2-N3	7.40	1.40	1.33
35	BB	113	U	C2-N3	7.39	1.43	1.37
35	BB	272	A	C6-N6	7.39	1.39	1.33
35	BB	1456	G	C5-C4	7.39	1.43	1.38
1	AA	77	A	C6-N6	7.39	1.39	1.33
35	BB	1070	A	N3-C4	-7.39	1.30	1.34
35	BB	2635	A	N7-C5	7.39	1.43	1.39
1	AA	33	A	C6-N6	7.39	1.39	1.33
1	AA	551	U	N3-C4	7.39	1.45	1.38
1	AA	1111	A	C6-N1	7.39	1.40	1.35
1	AA	1285	A	N1-C2	7.39	1.41	1.34
1	AA	621	A	C2'-C1'	-7.39	1.45	1.53
1	AA	712	A	N1-C2	7.39	1.41	1.34
35	BB	67	U	P-O5'	-7.39	1.52	1.59
35	BB	1141	U	C2-N3	7.39	1.43	1.37
35	BB	1975	G	N9-C8	7.39	1.43	1.37
35	BB	364	C	N3-C4	7.39	1.39	1.33
35	BB	2412	A	N3-C4	7.39	1.39	1.34
35	BB	2444	G	N1-C2	-7.39	1.31	1.37
35	BB	529	A	N7-C5	-7.39	1.34	1.39
35	BB	1496	A	N9-C8	7.39	1.43	1.37
35	BB	2027	G	C8-N7	7.39	1.35	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2718	G	C5-C4	7.39	1.43	1.38
1	AA	1181	G	N7-C5	-7.38	1.34	1.39
16	AP	77	GLU	CG-CD	7.38	1.63	1.51
35	BB	159	G	C2-N3	7.38	1.38	1.32
35	BB	261	G	N9-C8	7.38	1.43	1.37
35	BB	1030	C	N1-C6	7.38	1.41	1.37
35	BB	2327	A	C3'-C2'	7.38	1.61	1.52
1	AA	1494	G	C5-C4	7.38	1.43	1.38
35	BB	125	A	C4'-O4'	7.38	1.55	1.45
35	BB	293	U	N3-C4	7.38	1.45	1.38
35	BB	2073	C	C4-N4	7.38	1.40	1.33
1	AA	7	A	C5-C4	-7.38	1.33	1.38
1	AA	1510	C	N1-C6	7.38	1.41	1.37
35	BB	2226	C	C4'-C3'	7.38	1.61	1.53
35	BB	2751	G	N1-C2	7.38	1.43	1.37
35	BB	2863	C	C2'-C1'	-7.38	1.45	1.53
1	AA	34	C	C4-N4	7.38	1.40	1.33
1	AA	1099	G	C2'-C1'	-7.38	1.45	1.53
1	AA	1302	C	C4-C5	7.38	1.48	1.43
35	BB	2407	A	C5-C4	7.38	1.44	1.38
35	BB	2601	C	N1-C2	7.38	1.47	1.40
34	BA	46	A	N3-C4	7.38	1.39	1.34
35	BB	1724	G	C8-N7	7.38	1.35	1.30
35	BB	1928	A	C2'-C1'	-7.38	1.45	1.53
35	BB	2836	U	P-O5'	-7.38	1.52	1.59
1	AA	213	G	N1-C2	7.38	1.43	1.37
1	AA	391	G	C8-N7	-7.38	1.26	1.30
35	BB	1601	G	N1-C2	7.38	1.43	1.37
35	BB	2188	U	N3-C4	7.38	1.45	1.38
35	BB	2702	G	C4'-C3'	-7.38	1.45	1.53
1	AA	176	C	N3-C4	7.37	1.39	1.33
1	AA	592	G	C2'-C1'	-7.37	1.45	1.53
1	AA	640	A	N9-C4	7.37	1.42	1.37
1	AA	1505	G	C5-C6	7.37	1.49	1.42
35	BB	623	C	N3-C4	7.37	1.39	1.33
35	BB	1781	U	C2-N3	7.37	1.43	1.37
1	AA	209	U	C4'-O4'	-7.37	1.35	1.45
1	AA	272	C	N3-C4	7.37	1.39	1.33
1	AA	371	A	N7-C5	-7.37	1.34	1.39
1	AA	1082	A	C8-N7	-7.37	1.26	1.31
1	AA	1086	U	C2'-C1'	-7.37	1.45	1.53
35	BB	1423	G	N3-C4	-7.37	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	49	U	C4'-C3'	7.37	1.61	1.53
1	AA	297	G	C5-C4	-7.37	1.33	1.38
35	BB	148	U	N3-C4	7.37	1.45	1.38
22	AV	33	U	C4'-C3'	7.37	1.61	1.53
35	BB	6	A	N1-C2	7.37	1.41	1.34
35	BB	916	G	C5-C6	-7.37	1.34	1.42
35	BB	1906	G	N3-C4	-7.37	1.30	1.35
35	BB	1938	A	C6-N1	7.37	1.40	1.35
35	BB	2895	G	C2-N2	7.37	1.42	1.34
1	AA	1373	G	N7-C5	-7.37	1.34	1.39
1	AA	204	G	N1-C2	7.37	1.43	1.37
1	AA	356	A	C6-N1	7.37	1.40	1.35
1	AA	830	G	C2-N3	7.37	1.38	1.32
1	AA	1373	G	C2-N3	7.37	1.38	1.32
35	BB	752	A	C6-N1	7.37	1.40	1.35
35	BB	844	A	N1-C2	7.37	1.41	1.34
35	BB	1002	G	C5'-C4'	7.37	1.60	1.51
35	BB	2021	C	N1-C6	7.37	1.41	1.37
35	BB	2077	A	N1-C2	7.37	1.41	1.34
35	BB	2294	G	C5'-C4'	7.37	1.60	1.51
1	AA	881	G	C6-N1	7.36	1.44	1.39
11	AK	127	ARG	CD-NE	7.36	1.58	1.46
35	BB	504	A	C5-C4	7.36	1.44	1.38
35	BB	2217	G	P-O5'	7.36	1.67	1.59
35	BB	2502	G	C2-N3	7.36	1.38	1.32
35	BB	2850	A	C2'-C1'	-7.36	1.45	1.53
1	AA	39	G	C2-N3	7.36	1.38	1.32
1	AA	704	A	N7-C5	-7.36	1.34	1.39
35	BB	597	G	C5-C4	-7.36	1.33	1.38
35	BB	616	A	N9-C4	7.36	1.42	1.37
35	BB	1118	C	N1-C6	7.36	1.41	1.37
35	BB	1156	A	C3'-C2'	-7.36	1.44	1.52
35	BB	1233	C	C4-C5	-7.36	1.37	1.43
35	BB	1675	C	C5-C6	7.36	1.40	1.34
35	BB	108	G	N7-C5	-7.36	1.34	1.39
35	BB	562	U	O3'-P	-7.36	1.52	1.61
35	BB	836	G	C5-C4	7.36	1.43	1.38
35	BB	1035	U	C2'-C1'	-7.36	1.45	1.53
35	BB	2370	G	C2-N3	7.36	1.38	1.32
35	BB	2448	A	N7-C5	-7.36	1.34	1.39
1	AA	127	G	C8-N7	-7.36	1.26	1.30
1	AA	134	G	C2-N3	7.36	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	162	A	C6-N6	7.36	1.39	1.33
34	BA	57	A	N7-C5	-7.36	1.34	1.39
35	BB	1541	C	C2-N3	7.36	1.41	1.35
35	BB	1954	G	C2-N3	7.36	1.38	1.32
1	AA	1389	C	C4'-C3'	7.35	1.61	1.53
1	AA	1515	G	N7-C5	-7.35	1.34	1.39
35	BB	1149	G	P-O5'	-7.35	1.52	1.59
1	AA	180	U	C2-N3	7.35	1.42	1.37
35	BB	630	G	N7-C5	-7.35	1.34	1.39
35	BB	940	G	N1-C2	7.35	1.43	1.37
35	BB	1267	U	C4'-C3'	7.35	1.61	1.53
1	AA	228	A	C6-N6	7.35	1.39	1.33
1	AA	320	A	P-O5'	-7.35	1.52	1.59
1	AA	770	C	C4'-O4'	7.35	1.55	1.45
1	AA	1344	C	P-O5'	-7.35	1.52	1.59
35	BB	567	U	C4'-O4'	-7.35	1.35	1.45
35	BB	2519	U	C5'-C4'	7.35	1.60	1.51
1	AA	255	G	C2'-C1'	-7.35	1.45	1.53
1	AA	887	G	C5'-C4'	7.35	1.60	1.51
1	AA	1496	C	O4'-C1'	-7.35	1.32	1.41
35	BB	738	G	N9-C4	-7.35	1.32	1.38
35	BB	2087	G	C6-N1	7.35	1.44	1.39
1	AA	493	A	N9-C4	7.35	1.42	1.37
35	BB	2588	G	C2-N3	7.35	1.38	1.32
1	AA	1019	A	N3-C4	-7.35	1.30	1.34
35	BB	1815	A	O4'-C1'	-7.35	1.32	1.41
35	BB	2503	A	N9-C8	-7.35	1.31	1.37
1	AA	350	G	N1-C2	7.34	1.43	1.37
1	AA	1494	G	N1-C2	7.34	1.43	1.37
12	AL	53	ARG	CZ-NH2	7.34	1.42	1.33
35	BB	277	G	N3-C4	7.34	1.40	1.35
35	BB	560	C	C4-C5	-7.34	1.37	1.43
35	BB	2613	U	C3'-C2'	-7.34	1.44	1.52
35	BB	2858	C	C5'-C4'	7.34	1.60	1.51
1	AA	189	A	N9-C8	7.34	1.43	1.37
1	AA	718	A	N9-C4	-7.34	1.33	1.37
1	AA	944	G	C5'-C4'	7.34	1.60	1.51
35	BB	779	U	C5'-C4'	7.34	1.60	1.51
1	AA	974	A	C6-N6	7.34	1.39	1.33
35	BB	1513	U	N3-C4	7.34	1.45	1.38
35	BB	1731	G	N1-C2	7.34	1.43	1.37
35	BB	2358	A	C5'-C4'	7.34	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2594	C	N1-C6	-7.34	1.32	1.37
1	AA	457	G	N9-C4	7.34	1.43	1.38
1	AA	1080	A	N7-C5	-7.34	1.34	1.39
1	AA	1365	G	N9-C8	7.34	1.43	1.37
35	BB	1768	C	C2-O2	7.34	1.31	1.24
26	B1	47	ARG	CZ-NH2	7.33	1.42	1.33
35	BB	1621	U	C4-O4	7.33	1.29	1.23
1	AA	468	A	C6-N1	-7.33	1.30	1.35
1	AA	1048	G	N1-C2	7.33	1.43	1.37
35	BB	507	A	C2'-C1'	-7.33	1.45	1.53
35	BB	561	G	C2-N2	7.33	1.41	1.34
35	BB	1080	A	C5-C4	7.33	1.43	1.38
35	BB	1252	G	N1-C2	7.33	1.43	1.37
35	BB	1314	C	C4'-C3'	-7.33	1.45	1.53
35	BB	1695	G	C6-N1	7.33	1.44	1.39
35	BB	2235	G	N7-C5	7.33	1.43	1.39
35	BB	2471	A	C4'-C3'	7.33	1.61	1.53
1	AA	1138	G	C8-N7	7.33	1.35	1.30
35	BB	1984	G	N1-C2	7.33	1.43	1.37
35	BB	2679	A	C5-C6	-7.33	1.34	1.41
1	AA	194	C	C4'-C3'	7.33	1.61	1.53
1	AA	941	G	C8-N7	7.33	1.35	1.30
1	AA	1506	U	C4'-C3'	7.33	1.61	1.53
35	BB	2364	C	C2'-C1'	-7.33	1.45	1.53
35	BB	1249	U	C4-O4	-7.33	1.17	1.23
35	BB	1613	G	C5'-C4'	7.33	1.60	1.51
35	BB	1751	U	N1-C6	7.33	1.44	1.38
1	AA	417	G	N9-C4	-7.33	1.32	1.38
1	AA	455	G	O3'-P	-7.33	1.52	1.61
35	BB	2708	G	N3-C4	-7.33	1.30	1.35
1	AA	423	G	N3-C4	-7.33	1.30	1.35
1	AA	1174	G	C5-C4	-7.33	1.33	1.38
17	AQ	13	SER	CA-CB	7.33	1.64	1.52
35	BB	767	U	P-O5'	-7.33	1.52	1.59
35	BB	905	A	C5-C6	-7.33	1.34	1.41
35	BB	936	A	N3-C4	-7.33	1.30	1.34
35	BB	1520	U	P-O5'	-7.33	1.52	1.59
35	BB	1549	A	C8-N7	-7.33	1.26	1.31
35	BB	1994	C	O4'-C1'	-7.33	1.32	1.41
35	BB	2211	A	C5-C6	7.33	1.47	1.41
35	BB	2848	G	C2-N3	7.33	1.38	1.32
1	AA	820	U	C4-C5	7.32	1.50	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	855	G	C4'-C3'	7.32	1.61	1.53
1	AA	758	C	C4-N4	7.32	1.40	1.33
1	AA	1378	C	C4-N4	7.32	1.40	1.33
35	BB	38	A	N9-C4	7.32	1.42	1.37
35	BB	246	C	C4'-C3'	-7.32	1.45	1.53
35	BB	1161	C	N3-C4	7.32	1.39	1.33
1	AA	296	U	P-O5'	-7.32	1.52	1.59
1	AA	1409	C	P-O5'	7.32	1.67	1.59
34	BA	65	U	P-O5'	-7.32	1.52	1.59
35	BB	1444	G	N7-C5	-7.32	1.34	1.39
3	AC	87	ARG	CD-NE	7.32	1.58	1.46
35	BB	589	U	C2'-O2'	-7.32	1.32	1.41
35	BB	2815	C	C3'-C2'	7.32	1.61	1.52
35	BB	2487	G	N7-C5	-7.32	1.34	1.39
35	BB	2856	A	C6-N1	7.32	1.40	1.35
1	AA	230	G	N7-C5	-7.32	1.34	1.39
1	AA	713	G	P-O5'	-7.32	1.52	1.59
1	AA	929	G	C8-N7	-7.32	1.26	1.30
1	AA	1250	A	N9-C4	7.32	1.42	1.37
35	BB	889	C	C2'-C1'	-7.32	1.45	1.53
35	BB	2405	G	C6-N1	7.32	1.44	1.39
1	AA	715	A	N9-C8	-7.31	1.31	1.37
1	AA	1491	G	C2-N3	7.31	1.38	1.32
35	BB	599	A	C2-N3	7.31	1.40	1.33
35	BB	1421	G	C5-C4	7.31	1.43	1.38
35	BB	1580	A	C5-C4	7.31	1.43	1.38
35	BB	2344	U	C2-N3	7.31	1.42	1.37
35	BB	2372	U	C4-C5	7.31	1.50	1.43
1	AA	140	U	C2-N3	7.31	1.42	1.37
1	AA	383	A	C2'-C1'	-7.31	1.45	1.53
1	AA	676	A	C6-N6	7.31	1.39	1.33
1	AA	676	A	N9-C8	7.31	1.43	1.37
1	AA	926	G	C5-C4	-7.31	1.33	1.38
1	AA	1491	G	N7-C5	-7.31	1.34	1.39
35	BB	538	A	N3-C4	-7.31	1.30	1.34
1	AA	977	A	N9-C4	-7.31	1.33	1.37
1	AA	1019	A	C2'-C1'	-7.31	1.45	1.53
1	AA	1206	G	N7-C5	7.31	1.43	1.39
1	AA	1330	U	C4'-C3'	-7.31	1.45	1.53
35	BB	772	C	C2-N3	7.31	1.41	1.35
35	BB	992	C	C4-C5	-7.31	1.37	1.43
35	BB	2546	U	O3'-P	-7.31	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	730	G	C8-N7	7.31	1.35	1.30
1	AA	1412	C	C3'-C2'	-7.31	1.44	1.52
35	BB	914	G	N1-C2	7.31	1.43	1.37
35	BB	2146	C	C5'-C4'	7.31	1.60	1.51
35	BB	2168	G	N7-C5	-7.31	1.34	1.39
1	AA	586	C	N3-C4	7.30	1.39	1.33
1	AA	661	G	C5-C4	-7.30	1.33	1.38
1	AA	1077	G	N3-C4	7.30	1.40	1.35
35	BB	2442	C	N1-C6	7.30	1.41	1.37
1	AA	71	A	N9-C4	7.30	1.42	1.37
35	BB	946	C	O3'-P	-7.30	1.52	1.61
35	BB	1331	G	C5-C4	7.30	1.43	1.38
35	BB	147	C	C2-N3	7.30	1.41	1.35
35	BB	2038	G	N7-C5	7.30	1.43	1.39
1	AA	625	U	P-O5'	-7.30	1.52	1.59
1	AA	222	C	C2'-C1'	-7.30	1.45	1.53
1	AA	428	G	C2'-C1'	-7.30	1.45	1.53
35	BB	129	C	C4-N4	7.30	1.40	1.33
35	BB	625	G	C5'-C4'	7.30	1.60	1.51
1	AA	297	G	C2-N3	7.29	1.38	1.32
35	BB	169	G	N7-C5	-7.29	1.34	1.39
35	BB	2061	G	N9-C8	-7.29	1.32	1.37
35	BB	2442	C	C1'-N1	7.29	1.59	1.48
35	BB	2446	G	O3'-P	-7.29	1.52	1.61
1	AA	686	U	O3'-P	-7.29	1.52	1.61
34	BA	62	C	C4-C5	-7.29	1.37	1.43
35	BB	966	G	N1-C2	7.29	1.43	1.37
35	BB	1038	G	C6-N1	7.29	1.44	1.39
35	BB	1844	C	C5-C6	7.29	1.40	1.34
35	BB	1952	A	C5'-C4'	7.29	1.60	1.51
1	AA	954	G	C4'-C3'	7.29	1.61	1.53
35	BB	162	U	C4'-C3'	7.29	1.61	1.53
35	BB	760	G	N9-C8	7.29	1.43	1.37
1	AA	1310	G	N3-C4	-7.29	1.30	1.35
1	AA	10	A	N9-C4	-7.29	1.33	1.37
1	AA	60	A	C6-N6	7.29	1.39	1.33
1	AA	151	A	P-O5'	7.29	1.67	1.59
1	AA	338	A	N9-C8	7.29	1.43	1.37
35	BB	1353	A	C8-N7	-7.29	1.26	1.31
35	BB	1366	A	N1-C2	7.29	1.41	1.34
35	BB	1564	C	C5'-C4'	7.29	1.60	1.51
35	BB	1640	A	O3'-P	-7.29	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1215	G	N9-C4	7.29	1.43	1.38
1	AA	1360	A	N7-C5	-7.29	1.34	1.39
35	BB	1877	A	C6-N6	7.29	1.39	1.33
35	BB	1969	A	N9-C4	-7.29	1.33	1.37
35	BB	2478	A	N9-C8	7.29	1.43	1.37
1	AA	1425	U	C5-C6	7.28	1.40	1.34
35	BB	822	G	P-O5'	-7.28	1.52	1.59
35	BB	919	U	N3-C4	7.28	1.45	1.38
1	AA	1000	A	N9-C4	7.28	1.42	1.37
1	AA	1521	C	P-O5'	-7.28	1.52	1.59
35	BB	1491	G	C6-N1	7.28	1.44	1.39
1	AA	253	A	N9-C4	7.28	1.42	1.37
1	AA	305	G	N1-C2	7.28	1.43	1.37
1	AA	607	A	C6-N1	7.28	1.40	1.35
1	AA	1098	C	C4'-C3'	7.28	1.61	1.53
1	AA	1223	C	P-O5'	-7.28	1.52	1.59
35	BB	1633	G	P-O5'	-7.28	1.52	1.59
35	BB	2628	C	N1-C6	-7.28	1.32	1.37
1	AA	642	A	C5-C4	-7.28	1.33	1.38
1	AA	1399	C	N1-C6	7.28	1.41	1.37
35	BB	842	U	N1-C6	7.28	1.44	1.38
35	BB	1968	G	C2-N2	7.28	1.41	1.34
35	BB	2696	U	C2'-C1'	-7.28	1.45	1.53
1	AA	157	U	N1-C2	-7.28	1.32	1.38
35	BB	793	A	C8-N7	7.28	1.36	1.31
35	BB	1055	G	C8-N7	-7.28	1.26	1.30
35	BB	2682	A	C8-N7	-7.28	1.26	1.31
1	AA	382	A	N9-C4	-7.28	1.33	1.37
35	BB	325	G	N9-C4	-7.28	1.32	1.38
1	AA	744	C	C4-N4	7.27	1.40	1.33
35	BB	855	G	C3'-C2'	-7.27	1.44	1.52
35	BB	2853	C	C4-C5	7.27	1.48	1.43
1	AA	68	G	N7-C5	-7.27	1.34	1.39
1	AA	990	C	P-O5'	-7.27	1.52	1.59
35	BB	393	C	N3-C4	7.27	1.39	1.33
35	BB	746	U	O3'-P	-7.27	1.52	1.61
35	BB	2601	C	C4'-C3'	7.27	1.61	1.53
34	BA	74	U	N1-C6	7.27	1.44	1.38
35	BB	354	A	N7-C5	-7.27	1.34	1.39
35	BB	458	G	N1-C2	7.27	1.43	1.37
1	AA	843	U	C2-N3	7.27	1.42	1.37
1	AA	1379	G	C2-N2	7.27	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1167	C	N1-C6	7.27	1.41	1.37
35	BB	2287	A	C8-N7	-7.27	1.26	1.31
35	BB	2516	A	N9-C4	7.27	1.42	1.37
1	AA	143	A	N3-C4	-7.27	1.30	1.34
1	AA	468	A	C8-N7	-7.27	1.26	1.31
35	BB	188	G	O3'-P	-7.27	1.52	1.61
35	BB	1192	G	N1-C2	7.27	1.43	1.37
35	BB	1457	U	C2-N3	-7.27	1.32	1.37
35	BB	1508	A	C5-C6	-7.27	1.34	1.41
1	AA	35	G	C2-N2	7.27	1.41	1.34
1	AA	537	G	C2-N3	7.27	1.38	1.32
1	AA	1243	C	C4-N4	7.27	1.40	1.33
35	BB	705	A	C2'-C1'	-7.27	1.45	1.53
35	BB	1429	G	N7-C5	-7.27	1.34	1.39
1	AA	56	U	N3-C4	7.26	1.45	1.38
1	AA	243	A	N1-C2	7.26	1.40	1.34
1	AA	577	G	N9-C8	-7.26	1.32	1.37
1	AA	732	C	C2'-C1'	-7.26	1.45	1.53
1	AA	993	G	C3'-C2'	7.26	1.60	1.52
1	AA	1392	G	P-O5'	-7.26	1.52	1.59
35	BB	39	G	C5-C4	7.26	1.43	1.38
35	BB	242	G	C2'-C1'	-7.26	1.45	1.53
35	BB	505	A	C6-N1	7.26	1.40	1.35
35	BB	645	C	C5-C6	7.26	1.40	1.34
35	BB	639	U	P-O5'	-7.26	1.52	1.59
35	BB	2159	G	N9-C8	7.26	1.43	1.37
35	BB	801	G	C5-C6	-7.26	1.35	1.42
35	BB	930	G	N7-C5	-7.26	1.34	1.39
35	BB	956	G	C4'-C3'	7.26	1.61	1.53
35	BB	2473	U	C4-C5	7.26	1.50	1.43
1	AA	847	G	C4'-O4'	7.26	1.54	1.45
35	BB	303	G	N3-C4	7.26	1.40	1.35
35	BB	1009	A	N7-C5	-7.26	1.34	1.39
35	BB	1453	A	C6-N1	7.26	1.40	1.35
35	BB	1578	U	C2'-C1'	-7.26	1.45	1.53
35	BB	2150	C	C4-C5	7.26	1.48	1.43
35	BB	2424	C	N1-C6	-7.26	1.32	1.37
35	BB	2552	U	N3-C4	7.26	1.45	1.38
35	BB	2603	G	C6-N1	7.26	1.44	1.39
1	AA	170	U	C2'-C1'	-7.26	1.45	1.53
1	AA	752	G	N3-C4	7.26	1.40	1.35
1	AA	1308	U	C4-C5	7.26	1.50	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	333	G	N9-C4	7.26	1.43	1.38
35	BB	2734	A	N3-C4	-7.26	1.30	1.34
1	AA	1475	G	P-O5'	-7.26	1.52	1.59
33	B8	27	CYS	CB-SG	7.26	1.94	1.82
35	BB	1250	G	N9-C4	-7.26	1.32	1.38
35	BB	2404	U	O3'-P	-7.26	1.52	1.61
35	BB	2516	A	N3-C4	-7.26	1.30	1.34
35	BB	2811	G	N9-C4	7.26	1.43	1.38
1	AA	1260	G	C5-C6	-7.25	1.35	1.42
34	BA	18	G	P-O5'	-7.25	1.52	1.59
35	BB	936	A	N9-C8	7.25	1.43	1.37
35	BB	2204	G	N9-C8	-7.25	1.32	1.37
1	AA	210	C	N3-C4	7.25	1.39	1.33
1	AA	455	G	C6-N1	7.25	1.44	1.39
1	AA	1005	A	N1-C2	7.25	1.40	1.34
1	AA	1289	A	C8-N7	-7.25	1.26	1.31
35	BB	435	C	N1-C6	7.25	1.41	1.37
35	BB	2193	G	C2-N3	7.25	1.38	1.32
35	BB	2883	A	N3-C4	7.25	1.39	1.34
1	AA	1370	G	C6-N1	7.25	1.44	1.39
22	AV	32	A	C4'-O4'	-7.25	1.36	1.45
35	BB	520	G	N1-C2	7.25	1.43	1.37
35	BB	1164	C	N1-C6	7.25	1.41	1.37
35	BB	1711	A	N7-C5	-7.25	1.34	1.39
35	BB	2425	A	N7-C5	-7.25	1.34	1.39
35	BB	2273	A	C5-C4	7.25	1.43	1.38
1	AA	1186	G	C5-C6	7.25	1.49	1.42
1	AA	1360	A	N9-C8	7.25	1.43	1.37
35	BB	253	C	N3-C4	7.25	1.39	1.33
35	BB	725	G	C6-N1	7.25	1.44	1.39
35	BB	977	G	N3-C4	-7.25	1.30	1.35
35	BB	1608	A	C3'-C2'	7.25	1.60	1.52
35	BB	2708	G	C2'-C1'	-7.25	1.45	1.53
1	AA	905	U	C2-N3	7.25	1.42	1.37
35	BB	1407	G	C6-N1	-7.25	1.34	1.39
35	BB	1434	A	C4'-C3'	-7.25	1.45	1.53
35	BB	2854	G	N9-C4	-7.25	1.32	1.38
1	AA	97	G	N1-C2	7.24	1.43	1.37
1	AA	1084	G	C6-N1	7.24	1.44	1.39
35	BB	11	C	C4-N4	7.24	1.40	1.33
35	BB	509	C	P-O5'	-7.24	1.52	1.59
35	BB	1634	A	N9-C8	-7.24	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1812	U	C2-N3	7.24	1.42	1.37
35	BB	2575	C	O3'-P	-7.24	1.52	1.61
35	BB	2718	G	C8-N7	7.24	1.35	1.30
35	BB	2742	G	N1-C2	7.24	1.43	1.37
1	AA	328	C	N1-C6	-7.24	1.32	1.37
11	AK	55	ARG	NE-CZ	7.24	1.42	1.33
35	BB	786	C	N3-C4	7.24	1.39	1.33
35	BB	1560	G	C6-N1	7.24	1.44	1.39
35	BB	71	A	C6-N6	7.24	1.39	1.33
35	BB	1887	C	C2'-C1'	-7.24	1.45	1.53
1	AA	7	A	C6-N6	7.24	1.39	1.33
1	AA	160	A	C6-N1	7.24	1.40	1.35
1	AA	284	C	C4'-O4'	7.24	1.54	1.45
35	BB	1780	A	N9-C4	-7.24	1.33	1.37
35	BB	1204	A	N9-C4	7.24	1.42	1.37
35	BB	1772	A	C5-C4	7.24	1.43	1.38
1	AA	222	C	C4'-C3'	-7.24	1.45	1.53
1	AA	935	A	C6-N1	7.24	1.40	1.35
1	AA	1204	A	C5'-C4'	7.24	1.60	1.51
1	AA	1237	C	C4-N4	7.24	1.40	1.33
35	BB	1197	G	N9-C4	-7.24	1.32	1.38
35	BB	2341	G	N9-C4	-7.24	1.32	1.38
1	AA	750	C	C4-N4	7.23	1.40	1.33
35	BB	1706	C	C3'-C2'	-7.23	1.44	1.52
35	BB	2810	A	N9-C4	-7.23	1.33	1.37
1	AA	71	A	C6-N1	7.23	1.40	1.35
1	AA	452	A	C6-N6	7.23	1.39	1.33
1	AA	1515	G	N9-C8	7.23	1.43	1.37
34	BA	100	G	C5-C4	7.23	1.43	1.38
34	BA	115	A	N7-C5	-7.23	1.34	1.39
35	BB	581	C	C3'-C2'	7.23	1.60	1.52
35	BB	1739	A	C5-C6	-7.23	1.34	1.41
35	BB	2002	G	N7-C5	-7.23	1.34	1.39
1	AA	1267	C	C4-N4	7.23	1.40	1.33
35	BB	316	C	C4-C5	-7.23	1.37	1.43
35	BB	659	G	C2-N3	7.23	1.38	1.32
1	AA	128	G	C5-C4	-7.23	1.33	1.38
35	BB	314	C	N3-C4	7.23	1.39	1.33
35	BB	722	A	N9-C4	7.23	1.42	1.37
1	AA	116	A	P-O5'	-7.23	1.52	1.59
1	AA	356	A	C8-N7	-7.23	1.26	1.31
1	AA	615	G	C2-N3	7.23	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	264	C	C2-N3	7.23	1.41	1.35
35	BB	1142	A	O3'-P	-7.23	1.52	1.61
1	AA	454	G	C2-N3	7.23	1.38	1.32
1	AA	569	C	C4-C5	7.23	1.48	1.43
35	BB	1003	G	N7-C5	7.23	1.43	1.39
35	BB	2372	U	O3'-P	-7.23	1.52	1.61
1	AA	1047	G	P-O5'	-7.22	1.52	1.59
35	BB	1617	C	C2'-C1'	-7.22	1.45	1.53
35	BB	2874	C	N3-C4	7.22	1.39	1.33
1	AA	137	U	C2'-C1'	-7.22	1.45	1.53
1	AA	716	A	N9-C8	7.22	1.43	1.37
1	AA	785	G	N1-C2	7.22	1.43	1.37
1	AA	1363	A	N7-C5	-7.22	1.34	1.39
35	BB	1358	G	N7-C5	-7.22	1.34	1.39
35	BB	2251	G	C3'-C2'	-7.22	1.44	1.52
1	AA	303	A	N3-C4	-7.22	1.30	1.34
1	AA	1239	A	N7-C5	-7.22	1.34	1.39
1	AA	845	A	C2'-C1'	-7.22	1.45	1.53
1	AA	1157	A	N7-C5	-7.22	1.34	1.39
1	AA	1356	G	N7-C5	-7.22	1.34	1.39
35	BB	520	G	N9-C8	7.22	1.43	1.37
35	BB	1131	G	N1-C2	7.22	1.43	1.37
35	BB	1356	G	N7-C5	-7.22	1.34	1.39
1	AA	819	A	N7-C5	-7.22	1.34	1.39
1	AA	1429	A	C6-N1	7.22	1.40	1.35
34	BA	39	A	N9-C8	7.22	1.43	1.37
35	BB	862	G	C3'-C2'	7.22	1.60	1.52
35	BB	513	A	C5-C4	7.22	1.43	1.38
35	BB	1297	C	N3-C4	7.22	1.39	1.33
35	BB	2495	G	N7-C5	-7.22	1.34	1.39
34	BA	34	A	C6-N1	7.21	1.40	1.35
35	BB	2345	G	C5-C6	-7.21	1.35	1.42
35	BB	1265	A	C8-N7	-7.21	1.26	1.31
35	BB	1640	A	C6-N1	7.21	1.40	1.35
35	BB	2035	G	N9-C4	-7.21	1.32	1.38
35	BB	2588	G	N7-C5	-7.21	1.34	1.39
1	AA	285	C	N3-C4	7.21	1.39	1.33
2	AB	125	PHE	CG-CD1	7.21	1.49	1.38
35	BB	415	A	C6-N6	7.21	1.39	1.33
35	BB	999	U	N1-C6	7.21	1.44	1.38
1	AA	31	G	C6-N1	7.21	1.44	1.39
1	AA	564	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	1287	A	N9-C4	7.21	1.42	1.37
35	BB	959	A	C6-N6	7.21	1.39	1.33
35	BB	1069	A	C2'-C1'	-7.21	1.45	1.53
35	BB	2462	C	C2-N3	7.21	1.41	1.35
35	BB	2738	A	C2'-C1'	-7.21	1.45	1.53
1	AA	401	C	C3'-C2'	-7.21	1.44	1.52
1	AA	670	G	C2-N3	7.21	1.38	1.32
35	BB	2520	C	N1-C6	7.21	1.41	1.37
35	BB	2575	C	C4-N4	7.21	1.40	1.33
1	AA	1327	C	C4-N4	7.21	1.40	1.33
35	BB	970	U	C2'-C1'	-7.21	1.45	1.53
35	BB	1029	A	C6-N1	7.21	1.40	1.35
35	BB	1680	U	C2'-C1'	-7.21	1.45	1.53
35	BB	2775	G	C2-N2	-7.21	1.27	1.34
35	BB	612	G	C6-N1	7.21	1.44	1.39
35	BB	2811	G	N1-C2	7.20	1.43	1.37
1	AA	1402	C	C2'-C1'	-7.20	1.45	1.53
35	BB	519	U	C2-N3	7.20	1.42	1.37
35	BB	2835	A	N9-C8	-7.20	1.31	1.37
35	BB	215	G	N1-C2	7.20	1.43	1.37
35	BB	364	C	C2-N3	7.20	1.41	1.35
35	BB	695	G	C8-N7	7.20	1.35	1.30
35	BB	987	C	N3-C4	7.20	1.39	1.33
35	BB	1282	U	C5'-C4'	7.20	1.59	1.51
35	BB	1556	C	O3'-P	-7.20	1.52	1.61
35	BB	1776	G	C5'-C4'	7.20	1.59	1.51
35	BB	2055	C	O4'-C1'	7.20	1.51	1.41
35	BB	2513	A	C5-C4	-7.20	1.33	1.38
34	BA	78	A	C6-N1	7.20	1.40	1.35
35	BB	2340	A	P-O5'	-7.20	1.52	1.59
35	BB	676	A	N7-C5	-7.20	1.34	1.39
35	BB	1445	G	C5-C4	7.20	1.43	1.38
35	BB	2515	C	C4-C5	-7.20	1.37	1.43
1	AA	15	G	C6-N1	7.19	1.44	1.39
1	AA	810	C	C4'-C3'	-7.19	1.45	1.53
1	AA	1491	G	N1-C2	7.19	1.43	1.37
35	BB	541	A	C2-N3	7.19	1.40	1.33
35	BB	1832	C	C4'-O4'	7.19	1.54	1.45
1	AA	696	A	C6-N1	-7.19	1.30	1.35
34	BA	100	G	C5'-C4'	7.19	1.59	1.51
35	BB	768	G	N3-C4	-7.19	1.30	1.35
35	BB	1371	G	C2-N2	7.19	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1488	C	P-O5'	-7.19	1.52	1.59
1	AA	605	U	C4'-O4'	-7.19	1.36	1.45
35	BB	811	U	C5'-C4'	-7.19	1.42	1.51
35	BB	1000	A	N9-C4	-7.19	1.33	1.37
35	BB	1382	G	N7-C5	-7.19	1.34	1.39
35	BB	1850	G	C2-N3	-7.19	1.26	1.32
35	BB	1873	G	C2'-C1'	-7.19	1.45	1.53
1	AA	109	A	N7-C5	-7.19	1.34	1.39
1	AA	887	G	C8-N7	7.19	1.35	1.30
35	BB	1599	U	N1-C6	-7.19	1.31	1.38
35	BB	1964	G	C6-N1	7.19	1.44	1.39
35	BB	2751	G	N3-C4	7.19	1.40	1.35
1	AA	1040	U	C2-N3	-7.19	1.32	1.37
1	AA	1119	C	N1-C6	-7.19	1.32	1.37
35	BB	704	G	N1-C2	7.19	1.43	1.37
35	BB	1015	U	O3'-P	-7.19	1.52	1.61
35	BB	1891	G	N9-C8	7.19	1.42	1.37
35	BB	2653	U	O3'-P	-7.19	1.52	1.61
1	AA	144	G	N9-C4	7.19	1.43	1.38
1	AA	453	G	C6-N1	7.19	1.44	1.39
1	AA	1401	G	C2'-C1'	-7.19	1.45	1.53
1	AA	1414	U	C4-C5	7.19	1.50	1.43
34	BA	51	G	C8-N7	-7.19	1.26	1.30
35	BB	568	U	C4'-C3'	-7.19	1.45	1.53
35	BB	1059	G	C2-N3	7.19	1.38	1.32
35	BB	1427	A	C5-C4	7.19	1.43	1.38
35	BB	2115	G	N7-C5	-7.19	1.34	1.39
45	BL	138	ALA	C-N	7.19	1.46	1.33
1	AA	141	G	O3'-P	-7.18	1.52	1.61
34	BA	86	G	N1-C2	7.18	1.43	1.37
35	BB	1449	G	N1-C2	7.18	1.43	1.37
35	BB	2112	G	C6-N1	7.18	1.44	1.39
35	BB	2116	G	C5'-C4'	7.18	1.59	1.51
35	BB	2513	A	C5'-C4'	-7.18	1.42	1.51
35	BB	2731	G	C6-N1	7.18	1.44	1.39
1	AA	165	G	C4'-C3'	-7.18	1.45	1.53
1	AA	239	U	N1-C2	7.18	1.45	1.38
35	BB	1500	G	C8-N7	-7.18	1.26	1.30
1	AA	1471	U	C4-C5	7.18	1.50	1.43
35	BB	236	C	O3'-P	-7.18	1.52	1.61
35	BB	1889	A	C8-N7	-7.18	1.26	1.31
1	AA	561	U	C2-N3	7.18	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	631	C	C2'-C1'	7.18	1.61	1.53
1	AA	818	G	C6-N1	7.18	1.44	1.39
1	AA	820	U	N3-C4	-7.18	1.31	1.38
35	BB	627	A	N7-C5	-7.18	1.34	1.39
35	BB	1921	G	C5-C4	7.18	1.43	1.38
35	BB	2142	A	C2'-C1'	-7.18	1.45	1.53
1	AA	1505	G	O3'-P	-7.18	1.52	1.61
35	BB	1791	A	N9-C4	-7.18	1.33	1.37
1	AA	331	G	C2-N3	7.18	1.38	1.32
1	AA	713	G	N9-C4	-7.18	1.32	1.38
1	AA	1196	A	C6-N6	7.18	1.39	1.33
35	BB	165	A	C6-N6	7.18	1.39	1.33
35	BB	765	C	C2'-C1'	-7.18	1.45	1.53
35	BB	814	C	P-O5'	-7.18	1.52	1.59
35	BB	1192	G	C2'-C1'	-7.18	1.45	1.53
35	BB	1538	G	C2'-C1'	-7.18	1.45	1.53
35	BB	1607	C	N1-C2	7.18	1.47	1.40
35	BB	1684	G	C6-N1	7.18	1.44	1.39
35	BB	2435	A	C2'-C1'	-7.18	1.45	1.53
1	AA	470	C	C4-C5	7.17	1.48	1.43
1	AA	668	G	C2-N3	7.17	1.38	1.32
1	AA	1342	C	N3-C4	7.17	1.39	1.33
35	BB	1065	U	N1-C2	-7.17	1.32	1.38
35	BB	2644	G	P-O5'	-7.17	1.52	1.59
34	BA	13	G	C2-N2	7.17	1.41	1.34
35	BB	1146	C	C2'-C1'	-7.17	1.45	1.53
43	BJ	96	ARG	CZ-NH1	7.17	1.42	1.33
35	BB	1093	G	N9-C8	-7.17	1.32	1.37
35	BB	1346	G	C6-N1	7.17	1.44	1.39
35	BB	1593	A	N3-C4	7.17	1.39	1.34
35	BB	2367	G	N9-C4	-7.17	1.32	1.38
1	AA	1000	A	C6-N6	-7.17	1.28	1.33
35	BB	1980	G	N9-C4	-7.17	1.32	1.38
35	BB	2357	G	N7-C5	-7.17	1.34	1.39
1	AA	831	A	C8-N7	-7.17	1.26	1.31
1	AA	1229	A	N7-C5	7.17	1.43	1.39
1	AA	1320	C	N1-C6	-7.17	1.32	1.37
35	BB	993	G	N3-C4	7.17	1.40	1.35
35	BB	2033	A	C4'-C3'	7.17	1.61	1.53
35	BB	1303	G	C5-C6	7.17	1.49	1.42
35	BB	2267	A	N9-C4	7.17	1.42	1.37
35	BB	2491	U	C5'-C4'	7.17	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2621	G	N3-C4	-7.17	1.30	1.35
1	AA	181	A	C6-N1	7.16	1.40	1.35
1	AA	198	G	P-O5'	-7.16	1.52	1.59
1	AA	1245	C	C2'-C1'	-7.16	1.45	1.53
35	BB	1923	U	N3-C4	7.16	1.44	1.38
35	BB	1980	G	C2'-O2'	-7.16	1.32	1.41
1	AA	240	G	C5-C4	7.16	1.43	1.38
1	AA	823	C	N3-C4	7.16	1.39	1.33
1	AA	1053	G	N9-C8	7.16	1.42	1.37
35	BB	407	G	C2-N3	7.16	1.38	1.32
35	BB	2534	A	C5-C4	7.16	1.43	1.38
35	BB	2856	A	C5-C4	7.16	1.43	1.38
35	BB	2872	A	C3'-C2'	7.16	1.60	1.52
1	AA	601	G	C8-N7	7.16	1.35	1.30
1	AA	749	A	N3-C4	-7.16	1.30	1.34
1	AA	861	G	C5-C4	7.16	1.43	1.38
35	BB	512	G	N9-C8	7.16	1.42	1.37
35	BB	626	A	C5'-C4'	7.16	1.59	1.51
35	BB	1426	G	N7-C5	-7.16	1.34	1.39
35	BB	1523	U	C1'-N1	7.16	1.59	1.48
35	BB	1612	C	N1-C6	-7.16	1.32	1.37
35	BB	2589	A	N3-C4	-7.16	1.30	1.34
1	AA	56	U	C5-C6	-7.16	1.27	1.34
1	AA	120	A	C6-N6	7.16	1.39	1.33
1	AA	605	U	N3-C4	7.16	1.44	1.38
35	BB	1793	C	N3-C4	7.16	1.39	1.33
1	AA	16	A	C5'-C4'	7.15	1.59	1.51
35	BB	1002	G	C4'-C3'	7.15	1.61	1.53
35	BB	2107	G	C2'-C1'	-7.15	1.45	1.53
35	BB	2301	C	C2'-C1'	-7.15	1.45	1.53
1	AA	601	G	C2'-C1'	-7.15	1.45	1.53
1	AA	1308	U	C2-N3	7.15	1.42	1.37
1	AA	1329	A	N9-C4	-7.15	1.33	1.37
1	AA	1477	U	P-O5'	-7.15	1.52	1.59
35	BB	202	U	C4-C5	-7.15	1.37	1.43
35	BB	903	C	N3-C4	7.15	1.39	1.33
35	BB	1139	G	C8-N7	7.15	1.35	1.30
35	BB	2325	G	C2-N2	7.15	1.41	1.34
1	AA	639	G	C2-N2	7.15	1.41	1.34
35	BB	643	A	C6-N1	7.15	1.40	1.35
35	BB	1635	A	C6-N6	7.15	1.39	1.33
1	AA	374	A	C6-N1	7.15	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	765	G	C8-N7	7.15	1.35	1.30
1	AA	858	G	N1-C2	7.15	1.43	1.37
35	BB	1337	G	C4'-C3'	-7.15	1.45	1.53
35	BB	1506	U	O3'-P	-7.15	1.52	1.61
35	BB	2736	A	C5'-C4'	7.15	1.59	1.51
35	BB	2792	A	P-O5'	-7.15	1.52	1.59
1	AA	325	A	C2'-C1'	-7.15	1.45	1.53
1	AA	647	C	N1-C6	-7.15	1.32	1.37
35	BB	830	G	N9-C4	-7.15	1.32	1.38
35	BB	1445	G	C2-N3	7.15	1.38	1.32
35	BB	1676	A	N3-C4	-7.15	1.30	1.34
35	BB	1985	C	N1-C6	-7.15	1.32	1.37
1	AA	778	G	N1-C2	7.15	1.43	1.37
35	BB	213	A	C6-N6	7.15	1.39	1.33
35	BB	2159	G	N7-C5	-7.15	1.34	1.39
1	AA	147	G	C2-N3	7.14	1.38	1.32
1	AA	728	A	C8-N7	-7.14	1.26	1.31
30	B5	159	GLY	CA-C	-7.14	1.40	1.51
35	BB	1922	G	C2'-C1'	-7.14	1.45	1.53
35	BB	2789	C	N1-C2	7.14	1.47	1.40
1	AA	1241	G	C6-N1	7.14	1.44	1.39
35	BB	1616	A	C2'-C1'	-7.14	1.45	1.53
35	BB	1675	C	C3'-C2'	7.14	1.60	1.52
35	BB	105	C	C4-C5	-7.14	1.37	1.43
35	BB	689	A	N7-C5	7.14	1.43	1.39
35	BB	208	C	P-O5'	-7.14	1.52	1.59
35	BB	472	A	C6-N1	7.14	1.40	1.35
35	BB	1138	G	N1-C2	7.14	1.43	1.37
35	BB	1395	A	N9-C4	7.14	1.42	1.37
35	BB	2557	G	N1-C2	7.14	1.43	1.37
35	BB	782	A	C5'-C4'	7.14	1.59	1.51
35	BB	2848	G	P-O5'	-7.14	1.52	1.59
1	AA	31	G	C4'-C3'	-7.14	1.45	1.53
1	AA	294	U	N3-C4	7.14	1.44	1.38
1	AA	1367	C	C2'-C1'	-7.14	1.45	1.53
35	BB	1149	G	N9-C4	-7.14	1.32	1.38
35	BB	1168	G	C6-N1	7.14	1.44	1.39
35	BB	1696	G	N1-C2	7.14	1.43	1.37
35	BB	1817	G	C6-N1	7.14	1.44	1.39
35	BB	2399	G	C6-N1	7.14	1.44	1.39
1	AA	131	A	N3-C4	-7.13	1.30	1.34
1	AA	177	G	N1-C2	7.13	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	588	G	N9-C4	-7.13	1.32	1.38
1	AA	699	C	N1-C6	7.13	1.41	1.37
35	BB	1047	G	C2-N3	7.13	1.38	1.32
35	BB	1475	G	C2-N3	7.13	1.38	1.32
35	BB	2479	U	N3-C4	7.13	1.44	1.38
35	BB	1183	U	C5'-C4'	7.13	1.59	1.51
35	BB	1927	A	P-O5'	-7.13	1.52	1.59
1	AA	662	U	N3-C4	7.13	1.44	1.38
1	AA	747	A	C8-N7	-7.13	1.26	1.31
1	AA	1456	A	C6-N6	7.13	1.39	1.33
35	BB	1916	A	C6-N6	7.13	1.39	1.33
35	BB	2399	G	N7-C5	-7.13	1.34	1.39
1	AA	139	A	N7-C5	-7.13	1.34	1.39
35	BB	2659	G	N3-C4	-7.13	1.30	1.35
1	AA	121	U	N3-C4	7.13	1.44	1.38
35	BB	1655	A	N9-C8	7.13	1.43	1.37
35	BB	380	G	C6-O6	-7.12	1.17	1.24
35	BB	1724	G	N7-C5	-7.12	1.34	1.39
35	BB	1962	C	C3'-C2'	-7.12	1.45	1.52
1	AA	541	G	C2'-C1'	-7.12	1.45	1.53
13	AM	86	ARG	CZ-NH2	7.12	1.42	1.33
35	BB	82	U	O3'-P	-7.12	1.52	1.61
35	BB	580	U	C3'-C2'	-7.12	1.45	1.52
35	BB	2837	A	C6-N1	-7.12	1.30	1.35
1	AA	957	U	C4'-C3'	7.12	1.60	1.53
1	AA	1362	A	N7-C5	-7.12	1.34	1.39
35	BB	337	C	N1-C6	7.12	1.41	1.37
1	AA	394	G	N7-C5	-7.12	1.34	1.39
35	BB	2476	A	O4'-C1'	7.12	1.50	1.41
35	BB	2801	G	P-O5'	-7.12	1.52	1.59
1	AA	219	U	O3'-P	-7.12	1.52	1.61
1	AA	508	U	C4-C5	7.12	1.50	1.43
1	AA	1248	A	N3-C4	-7.12	1.30	1.34
34	BA	4	C	C4'-C3'	7.12	1.60	1.53
35	BB	640	C	O3'-P	-7.12	1.52	1.61
35	BB	1594	U	C2-O2	7.12	1.28	1.22
35	BB	1613	G	C4'-C3'	7.12	1.60	1.53
35	BB	2322	A	N7-C5	-7.12	1.34	1.39
35	BB	1235	G	C4'-C3'	-7.12	1.45	1.53
1	AA	1350	A	N7-C5	-7.12	1.34	1.39
35	BB	661	A	P-O5'	-7.12	1.52	1.59
35	BB	1793	C	C4-N4	7.12	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1974	C	C4-N4	7.12	1.40	1.33
1	AA	1360	A	C5-C4	7.11	1.43	1.38
35	BB	287	G	C5-C4	7.11	1.43	1.38
35	BB	2102	G	N9-C8	-7.11	1.32	1.37
35	BB	2251	G	C4'-C3'	-7.11	1.45	1.53
1	AA	901	A	N9-C4	-7.11	1.33	1.37
35	BB	1829	A	N3-C4	7.11	1.39	1.34
35	BB	2285	C	C4-N4	7.11	1.40	1.33
35	BB	672	C	C2-N3	7.11	1.41	1.35
35	BB	1425	G	N9-C8	7.11	1.42	1.37
35	BB	1744	A	N9-C8	7.11	1.43	1.37
1	AA	1432	G	C2-N3	7.11	1.38	1.32
1	AA	94	G	C5-C6	-7.11	1.35	1.42
1	AA	938	A	C6-N1	7.11	1.40	1.35
1	AA	1181	G	C6-N1	7.11	1.44	1.39
35	BB	654	A	C6-N6	7.11	1.39	1.33
4	AD	187	ARG	CZ-NH1	7.11	1.42	1.33
35	BB	1203	U	P-O5'	-7.11	1.52	1.59
35	BB	2022	U	C2'-C1'	-7.11	1.45	1.53
35	BB	2792	A	C6-N6	7.11	1.39	1.33
35	BB	2893	A	O3'-P	-7.11	1.52	1.61
1	AA	501	C	N3-C4	7.10	1.39	1.33
1	AA	533	A	C2-N3	7.10	1.40	1.33
1	AA	716	A	C2'-C1'	-7.10	1.45	1.53
35	BB	1776	G	C6-N1	7.10	1.44	1.39
35	BB	1901	A	N9-C4	7.10	1.42	1.37
1	AA	264	C	C4-N4	7.10	1.40	1.33
1	AA	521	G	C2-N3	7.10	1.38	1.32
35	BB	1573	G	N7-C5	-7.10	1.34	1.39
35	BB	2143	C	C4-C5	7.10	1.48	1.43
1	AA	449	G	C5'-C4'	7.10	1.59	1.51
1	AA	568	G	O4'-C1'	7.10	1.50	1.41
35	BB	1992	G	N9-C8	7.10	1.42	1.37
1	AA	761	G	C2-N3	7.10	1.38	1.32
1	AA	873	A	N9-C4	7.10	1.42	1.37
35	BB	226	A	N9-C4	7.10	1.42	1.37
35	BB	624	C	C4'-C3'	7.10	1.60	1.53
35	BB	989	G	C6-N1	7.10	1.44	1.39
35	BB	1222	U	O3'-P	-7.10	1.52	1.61
1	AA	114	U	C2'-C1'	-7.10	1.45	1.53
1	AA	603	U	N3-C4	7.10	1.44	1.38
1	AA	1041	G	N1-C2	7.10	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	182	A	C5-C6	-7.10	1.34	1.41
35	BB	779	U	N1-C6	-7.10	1.31	1.38
35	BB	924	G	N9-C4	-7.10	1.32	1.38
35	BB	2325	G	C8-N7	-7.10	1.26	1.30
1	AA	1179	A	N3-C4	7.10	1.39	1.34
1	AA	722	G	P-O5'	-7.09	1.52	1.59
1	AA	1130	A	N3-C4	-7.09	1.30	1.34
1	AA	1408	A	N7-C5	-7.09	1.34	1.39
35	BB	63	A	N9-C4	-7.09	1.33	1.37
35	BB	319	G	N1-C2	7.09	1.43	1.37
35	BB	407	G	C6-N1	7.09	1.44	1.39
35	BB	905	A	C6-N6	7.09	1.39	1.33
35	BB	1250	G	C6-N1	7.09	1.44	1.39
35	BB	1259	G	C8-N7	7.09	1.35	1.30
1	AA	680	C	C4-C5	-7.09	1.37	1.43
1	AA	1135	U	N3-C4	7.09	1.44	1.38
1	AA	1296	C	C4-C5	7.09	1.48	1.43
35	BB	959	A	N9-C8	-7.09	1.32	1.37
35	BB	1439	A	N7-C5	-7.09	1.34	1.39
35	BB	1586	A	O3'-P	-7.09	1.52	1.61
35	BB	1881	C	P-O5'	-7.09	1.52	1.59
1	AA	55	A	N7-C5	-7.09	1.34	1.39
35	BB	681	G	C8-N7	-7.09	1.26	1.30
35	BB	1516	G	C4'-C3'	-7.09	1.45	1.53
35	BB	1999	C	C3'-C2'	-7.09	1.45	1.52
35	BB	2803	G	N9-C8	7.09	1.42	1.37
35	BB	424	G	N7-C5	7.09	1.43	1.39
35	BB	821	A	O3'-P	-7.09	1.52	1.61
35	BB	1396	U	N1-C2	7.09	1.45	1.38
35	BB	1776	G	C8-N7	7.09	1.35	1.30
35	BB	2705	A	N7-C5	-7.09	1.34	1.39
1	AA	1410	A	C2'-C1'	-7.09	1.45	1.53
1	AA	1427	C	N3-C4	7.09	1.39	1.33
35	BB	1698	A	C6-N6	7.09	1.39	1.33
1	AA	285	C	N1-C6	7.09	1.41	1.37
1	AA	591	U	C2'-C1'	-7.09	1.45	1.53
1	AA	1431	A	N9-C4	-7.09	1.33	1.37
9	AI	98	ARG	CZ-NH1	7.09	1.42	1.33
35	BB	1197	G	N9-C8	-7.09	1.32	1.37
35	BB	1291	C	C2'-C1'	-7.09	1.45	1.53
35	BB	2124	G	N9-C8	7.09	1.42	1.37
1	AA	877	G	C6-N1	7.08	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	297	G	C6-N1	7.08	1.44	1.39
35	BB	825	A	C2'-C1'	-7.08	1.45	1.53
35	BB	1246	A	N9-C4	7.08	1.42	1.37
35	BB	2079	U	N3-C4	7.08	1.44	1.38
1	AA	303	A	N7-C5	7.08	1.43	1.39
1	AA	442	G	C8-N7	7.08	1.35	1.30
1	AA	1051	C	N3-C4	7.08	1.39	1.33
35	BB	1598	A	C6-N6	7.08	1.39	1.33
35	BB	1619	G	C2-N3	7.08	1.38	1.32
35	BB	2472	G	C8-N7	-7.08	1.26	1.30
1	AA	61	G	C6-N1	7.08	1.44	1.39
1	AA	1300	G	N1-C2	7.08	1.43	1.37
35	BB	844	A	C5'-C4'	7.08	1.59	1.51
35	BB	1473	G	C5-C4	-7.08	1.33	1.38
35	BB	2135	A	O3'-P	-7.08	1.52	1.61
35	BB	2217	G	C4'-C3'	7.08	1.60	1.53
35	BB	2282	G	C8-N7	-7.08	1.26	1.30
1	AA	635	A	C2'-C1'	-7.08	1.45	1.53
1	AA	1451	U	N3-C4	7.08	1.44	1.38
35	BB	1345	C	N1-C6	-7.08	1.32	1.37
35	BB	1492	G	C2-N2	7.08	1.41	1.34
1	AA	1489	G	C2-N3	7.08	1.38	1.32
1	AA	1513	A	N9-C4	-7.08	1.33	1.37
35	BB	1457	U	P-O5'	-7.08	1.52	1.59
35	BB	1552	A	N9-C4	-7.08	1.33	1.37
35	BB	1619	G	P-O5'	-7.08	1.52	1.59
35	BB	1866	A	N9-C4	-7.08	1.33	1.37
35	BB	1918	A	C6-N1	7.08	1.40	1.35
35	BB	2469	A	C8-N7	7.08	1.36	1.31
35	BB	1205	A	N7-C5	7.08	1.43	1.39
35	BB	1464	G	N1-C2	7.08	1.43	1.37
35	BB	2511	U	N1-C2	7.08	1.45	1.38
35	BB	2629	U	C5-C6	7.08	1.40	1.34
35	BB	2819	G	C5-C6	-7.08	1.35	1.42
1	AA	479	U	N3-C4	7.08	1.44	1.38
1	AA	566	G	C6-N1	7.08	1.44	1.39
34	BA	8	C	N3-C4	7.08	1.39	1.33
35	BB	1250	G	C2-N3	7.08	1.38	1.32
35	BB	1577	C	O3'-P	-7.08	1.52	1.61
35	BB	1872	A	N7-C5	-7.08	1.35	1.39
1	AA	520	A	C6-N1	7.07	1.40	1.35
1	AA	972	C	O3'-P	-7.07	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	AJ	9	ARG	CD-NE	7.07	1.58	1.46
35	BB	2476	A	C6-N6	7.07	1.39	1.33
37	BD	45	TYR	CE1-CZ	7.07	1.47	1.38
35	BB	386	G	N7-C5	-7.07	1.35	1.39
35	BB	799	G	C5-C4	7.07	1.43	1.38
35	BB	1776	G	N3-C4	7.07	1.40	1.35
35	BB	2244	U	O3'-P	-7.07	1.52	1.61
35	BB	2786	U	C2'-C1'	-7.07	1.45	1.53
35	BB	1611	C	N1-C6	7.07	1.41	1.37
35	BB	1649	G	N3-C4	7.07	1.40	1.35
1	AA	1484	C	N3-C4	7.07	1.38	1.33
35	BB	1458	U	N3-C4	7.07	1.44	1.38
35	BB	1596	A	N7-C5	-7.07	1.35	1.39
35	BB	1767	G	C2-N2	7.07	1.41	1.34
35	BB	2721	A	P-O5'	-7.07	1.52	1.59
1	AA	93	U	C3'-C2'	7.07	1.60	1.52
1	AA	258	G	C2-N3	7.07	1.38	1.32
1	AA	788	U	C3'-C2'	7.07	1.60	1.52
1	AA	1338	G	C6-N1	7.07	1.44	1.39
35	BB	229	C	C4-N4	7.07	1.40	1.33
35	BB	506	G	O3'-P	-7.07	1.52	1.61
35	BB	1357	C	N3-C4	7.07	1.38	1.33
35	BB	2061	G	C4'-C3'	7.07	1.60	1.53
35	BB	1060	U	N3-C4	7.06	1.44	1.38
35	BB	2742	G	C2'-C1'	-7.06	1.45	1.53
1	AA	154	U	N3-C4	7.06	1.44	1.38
1	AA	802	A	N7-C5	-7.06	1.35	1.39
1	AA	1415	G	C6-N1	7.06	1.44	1.39
35	BB	311	A	N7-C5	-7.06	1.35	1.39
35	BB	317	G	C3'-C2'	-7.06	1.45	1.52
1	AA	231	U	C2-N3	7.06	1.42	1.37
35	BB	563	A	C5-C4	7.06	1.43	1.38
35	BB	1103	A	N9-C4	7.06	1.42	1.37
35	BB	1668	A	N9-C8	-7.06	1.32	1.37
35	BB	1918	A	O3'-P	-7.06	1.52	1.61
35	BB	2123	G	N9-C4	-7.06	1.32	1.38
35	BB	2475	C	C4-C5	7.06	1.48	1.43
35	BB	826	U	N3-C4	7.06	1.44	1.38
35	BB	2527	C	C4-N4	7.06	1.40	1.33
35	BB	909	A	C5-C4	7.06	1.43	1.38
1	AA	675	A	C5-C4	7.05	1.43	1.38
4	AD	171	GLU	CD-OE2	7.05	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	79	C	C4-N4	7.05	1.40	1.33
35	BB	1949	G	N7-C5	-7.05	1.35	1.39
1	AA	229	U	C5'-C4'	7.05	1.59	1.51
35	BB	2184	A	N9-C4	7.05	1.42	1.37
31	B6	12	ARG	CD-NE	7.05	1.58	1.46
35	BB	2768	U	N3-C4	7.05	1.44	1.38
1	AA	932	C	C4-C5	7.05	1.48	1.43
1	AA	1162	C	N1-C2	-7.05	1.33	1.40
35	BB	126	A	C6-N6	7.05	1.39	1.33
35	BB	1516	G	N7-C5	7.05	1.43	1.39
35	BB	1695	G	O4'-C1'	-7.05	1.32	1.41
35	BB	2292	U	O3'-P	-7.05	1.52	1.61
35	BB	2405	G	C8-N7	7.05	1.35	1.30
1	AA	1261	A	N9-C4	7.05	1.42	1.37
35	BB	1304	A	C5-C4	-7.05	1.33	1.38
35	BB	1575	C	O3'-P	-7.05	1.52	1.61
35	BB	1924	C	N1-C6	7.05	1.41	1.37
35	BB	1959	G	N9-C4	-7.05	1.32	1.38
1	AA	1127	G	C5'-C4'	7.05	1.59	1.51
35	BB	457	A	N3-C4	7.05	1.39	1.34
35	BB	572	A	N7-C5	-7.05	1.35	1.39
35	BB	1774	C	C5-C6	7.05	1.40	1.34
35	BB	2051	A	C6-N1	7.05	1.40	1.35
35	BB	398	C	C4-N4	7.04	1.40	1.33
35	BB	1677	A	P-O5'	-7.04	1.52	1.59
35	BB	1856	U	N3-C4	7.04	1.44	1.38
1	AA	496	A	C6-N1	7.04	1.40	1.35
34	BA	24	G	C8-N7	-7.04	1.26	1.30
34	BA	52	A	N3-C4	-7.04	1.30	1.34
35	BB	543	G	N9-C8	-7.04	1.32	1.37
35	BB	2087	G	C2-N3	7.04	1.38	1.32
35	BB	2398	U	N1-C6	7.04	1.44	1.38
35	BB	758	C	O3'-P	-7.04	1.52	1.61
35	BB	2733	A	C6-N1	7.04	1.40	1.35
35	BB	2760	C	N3-C4	7.04	1.38	1.33
1	AA	431	A	N9-C4	7.04	1.42	1.37
35	BB	1120	G	C5-C6	-7.04	1.35	1.42
35	BB	1706	C	N1-C6	7.04	1.41	1.37
1	AA	172	A	C6-N6	7.04	1.39	1.33
35	BB	1147	A	C6-N1	7.04	1.40	1.35
35	BB	1696	G	C2-N3	7.04	1.38	1.32
35	BB	2524	G	C2-N3	7.04	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2803	G	C2-N2	7.04	1.41	1.34
1	AA	88	U	N1-C2	7.04	1.44	1.38
35	BB	1042	G	C5'-C4'	7.04	1.59	1.51
1	AA	134	G	N3-C4	-7.04	1.30	1.35
1	AA	1052	U	N1-C6	7.04	1.44	1.38
34	BA	46	A	N9-C8	-7.04	1.32	1.37
35	BB	371	A	O3'-P	-7.04	1.52	1.61
35	BB	458	G	N9-C4	-7.04	1.32	1.38
35	BB	1978	A	C6-N1	7.04	1.40	1.35
1	AA	1325	C	C4-C5	7.03	1.48	1.43
35	BB	297	G	N1-C2	7.03	1.43	1.37
35	BB	438	G	C2-N2	7.03	1.41	1.34
35	BB	1046	A	C5'-C4'	7.03	1.59	1.51
35	BB	2414	G	N1-C2	7.03	1.43	1.37
35	BB	2718	G	C2-N2	7.03	1.41	1.34
1	AA	1279	G	C4'-C3'	-7.03	1.45	1.53
35	BB	2459	A	C5'-C4'	7.03	1.59	1.51
1	AA	808	C	P-O5'	-7.03	1.52	1.59
1	AA	927	G	N3-C4	-7.03	1.30	1.35
22	AV	75	C	N3-C4	7.03	1.38	1.33
35	BB	601	C	C2'-C1'	-7.03	1.45	1.53
35	BB	669	G	C8-N7	7.03	1.35	1.30
35	BB	2136	G	C3'-O3'	7.03	1.51	1.42
35	BB	2328	A	C3'-C2'	-7.03	1.45	1.52
35	BB	2726	A	N7-C5	-7.03	1.35	1.39
39	BF	111	ARG	CZ-NH1	7.03	1.42	1.33
35	BB	1771	C	C1'-N1	7.03	1.59	1.48
35	BB	2081	U	C2'-C1'	-7.03	1.45	1.53
1	AA	180	U	C2'-C1'	-7.03	1.45	1.53
1	AA	475	C	O3'-P	-7.03	1.52	1.61
1	AA	545	C	N1-C2	7.03	1.47	1.40
1	AA	754	C	N3-C4	7.03	1.38	1.33
1	AA	916	U	N3-C4	7.03	1.44	1.38
1	AA	1210	C	N3-C4	7.03	1.38	1.33
35	BB	132	G	C2-N3	7.03	1.38	1.32
35	BB	1574	C	N1-C6	7.03	1.41	1.37
35	BB	1709	U	P-O5'	-7.03	1.52	1.59
35	BB	2740	A	C5'-C4'	7.03	1.59	1.51
1	AA	941	G	C5-C4	7.03	1.43	1.38
35	BB	967	U	C2-N3	7.03	1.42	1.37
35	BB	2289	G	N7-C5	-7.03	1.35	1.39
22	AV	13	C	C4'-O4'	7.02	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2528	U	C2-N3	7.02	1.42	1.37
1	AA	1191	A	N7-C5	-7.02	1.35	1.39
1	AA	1433	A	C5-C4	7.02	1.43	1.38
35	BB	111	A	C8-N7	7.02	1.36	1.31
35	BB	1365	A	C6-N1	7.02	1.40	1.35
35	BB	1787	A	C8-N7	-7.02	1.26	1.31
35	BB	1861	G	N9-C4	-7.02	1.32	1.38
35	BB	2547	A	C2'-C1'	-7.02	1.45	1.53
35	BB	2759	G	C2-N3	7.02	1.38	1.32
1	AA	196	A	C5-C4	7.02	1.43	1.38
1	AA	1105	A	C6-N1	7.02	1.40	1.35
35	BB	62	U	C4'-C3'	7.02	1.60	1.53
35	BB	2484	G	C2-N2	7.02	1.41	1.34
1	AA	164	G	N1-C2	7.02	1.43	1.37
1	AA	484	G	N3-C4	-7.02	1.30	1.35
34	BA	44	G	N3-C4	-7.02	1.30	1.35
35	BB	1	G	P-O5'	7.02	1.66	1.59
35	BB	191	A	C6-N6	7.02	1.39	1.33
35	BB	536	G	C2-N3	7.02	1.38	1.32
35	BB	1522	A	C2'-C1'	-7.02	1.45	1.53
35	BB	2166	U	C2-N3	7.02	1.42	1.37
35	BB	2728	U	P-O5'	-7.02	1.52	1.59
1	AA	901	A	C2'-C1'	-7.02	1.45	1.53
34	BA	100	G	C6-N1	7.02	1.44	1.39
35	BB	687	C	C2-N3	7.02	1.41	1.35
35	BB	2392	A	N9-C8	-7.02	1.32	1.37
35	BB	2743	U	P-O5'	-7.02	1.52	1.59
35	BB	2898	U	C4-C5	7.02	1.49	1.43
34	BA	116	G	C6-N1	7.02	1.44	1.39
1	AA	109	A	N9-C8	7.01	1.43	1.37
35	BB	333	G	N7-C5	-7.01	1.35	1.39
35	BB	458	G	C2-N3	7.01	1.38	1.32
35	BB	962	G	C2-N3	7.01	1.38	1.32
35	BB	1250	G	C8-N7	-7.01	1.26	1.30
35	BB	1381	G	O4'-C1'	-7.01	1.32	1.41
1	AA	361	G	C2-N2	7.01	1.41	1.34
1	AA	1414	U	N1-C2	7.01	1.44	1.38
1	AA	85	U	P-O5'	-7.01	1.52	1.59
1	AA	170	U	C4'-O4'	-7.01	1.36	1.45
1	AA	1011	C	N3-C4	7.01	1.38	1.33
15	AO	16	ARG	NE-CZ	7.01	1.42	1.33
35	BB	1144	A	N3-C4	-7.01	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1930	G	C2-N3	7.01	1.38	1.32
35	BB	2391	G	N7-C5	-7.01	1.35	1.39
35	BB	2608	G	C2-N3	7.01	1.38	1.32
50	BQ	31	TYR	CG-CD1	7.01	1.48	1.39
1	AA	955	U	C3'-O3'	7.01	1.51	1.42
35	BB	125	A	C5-C4	7.01	1.43	1.38
35	BB	644	A	N9-C4	7.01	1.42	1.37
35	BB	2536	G	N3-C4	-7.01	1.30	1.35
44	BK	70	ARG	CD-NE	7.01	1.58	1.46
1	AA	198	G	C6-N1	7.01	1.44	1.39
35	BB	2033	A	C6-N1	7.01	1.40	1.35
1	AA	706	A	N9-C4	-7.01	1.33	1.37
1	AA	852	G	N7-C5	-7.01	1.35	1.39
35	BB	247	G	C2-N2	-7.01	1.27	1.34
35	BB	624	C	N3-C4	7.01	1.38	1.33
35	BB	1799	G	N9-C8	-7.01	1.32	1.37
35	BB	2666	C	N3-C4	7.01	1.38	1.33
35	BB	2857	G	P-O5'	-7.01	1.52	1.59
1	AA	794	A	N9-C4	7.00	1.42	1.37
35	BB	523	C	C3'-C2'	7.00	1.60	1.52
1	AA	443	C	N1-C6	7.00	1.41	1.37
1	AA	939	G	C2-N2	7.00	1.41	1.34
1	AA	1412	C	C5-C6	-7.00	1.28	1.34
35	BB	252	G	C6-N1	7.00	1.44	1.39
35	BB	1698	A	C2-N3	7.00	1.39	1.33
35	BB	2853	C	C2-N3	7.00	1.41	1.35
35	BB	2862	G	N1-C2	7.00	1.43	1.37
1	AA	360	G	N9-C4	7.00	1.43	1.38
1	AA	364	A	N3-C4	-7.00	1.30	1.34
1	AA	1174	G	N7-C5	-7.00	1.35	1.39
1	AA	1265	C	C2'-C1'	-7.00	1.45	1.53
35	BB	1257	C	C4'-C3'	-7.00	1.45	1.53
35	BB	2035	G	O3'-P	-7.00	1.52	1.61
5	AE	49	TYR	CE1-CZ	7.00	1.47	1.38
1	AA	1185	G	C4'-O4'	7.00	1.54	1.45
34	BA	96	G	N9-C4	7.00	1.43	1.38
34	BA	100	G	N9-C8	7.00	1.42	1.37
35	BB	302	C	C2'-C1'	-7.00	1.45	1.53
35	BB	476	G	N3-C4	-7.00	1.30	1.35
35	BB	477	A	C6-N6	7.00	1.39	1.33
35	BB	1745	A	N7-C5	-7.00	1.35	1.39
1	AA	129	A	N3-C4	-7.00	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	168	G	N9-C4	-7.00	1.32	1.38
35	BB	452	G	C8-N7	-7.00	1.26	1.30
35	BB	710	U	N3-C4	7.00	1.44	1.38
35	BB	711	G	C8-N7	7.00	1.35	1.30
35	BB	1803	A	O3'-P	-7.00	1.52	1.61
35	BB	2069	G	C4'-C3'	-7.00	1.45	1.53
1	AA	666	G	C2-N3	7.00	1.38	1.32
1	AA	1391	U	N1-C6	7.00	1.44	1.38
35	BB	1302	A	N3-C4	-7.00	1.30	1.34
1	AA	454	G	N7-C5	-6.99	1.35	1.39
1	AA	1237	C	C2-N3	6.99	1.41	1.35
35	BB	984	A	C5-C4	6.99	1.43	1.38
35	BB	1517	G	N9-C8	6.99	1.42	1.37
35	BB	1748	C	N1-C6	6.99	1.41	1.37
35	BB	2672	U	N1-C6	6.99	1.44	1.38
1	AA	289	G	C5-C6	-6.99	1.35	1.42
1	AA	791	G	C8-N7	-6.99	1.26	1.30
1	AA	1453	G	C5'-C4'	6.99	1.59	1.51
1	AA	1475	G	C2-N3	6.99	1.38	1.32
35	BB	1349	C	N1-C6	6.99	1.41	1.37
35	BB	1549	A	C5'-C4'	6.99	1.59	1.51
35	BB	1804	C	C4'-C3'	-6.99	1.45	1.53
35	BB	2877	G	N7-C5	-6.99	1.35	1.39
1	AA	221	C	C3'-C2'	-6.99	1.45	1.52
1	AA	271	C	N1-C6	-6.99	1.32	1.37
1	AA	1421	G	C4'-C3'	6.99	1.60	1.53
1	AA	1483	A	N9-C8	6.99	1.43	1.37
35	BB	846	U	C2-N3	6.99	1.42	1.37
35	BB	2607	G	C2-N3	6.99	1.38	1.32
1	AA	353	A	C5-C6	-6.99	1.34	1.41
1	AA	1227	A	N9-C4	6.99	1.42	1.37
1	AA	1459	G	C6-N1	6.99	1.44	1.39
35	BB	2107	G	C6-N1	6.99	1.44	1.39
1	AA	417	G	C8-N7	-6.99	1.26	1.30
1	AA	951	G	C8-N7	-6.99	1.26	1.30
35	BB	1239	G	C5-C6	-6.99	1.35	1.42
35	BB	1333	G	C2-N2	6.99	1.41	1.34
35	BB	1439	A	C5'-C4'	6.99	1.59	1.51
35	BB	1919	A	N9-C8	-6.99	1.32	1.37
35	BB	2475	C	N3-C4	6.99	1.38	1.33
35	BB	1707	G	C5-C4	6.98	1.43	1.38
35	BB	2002	G	O3'-P	-6.98	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2669	G	N3-C4	-6.98	1.30	1.35
1	AA	589	U	O3'-P	-6.98	1.52	1.61
34	BA	104	A	N9-C4	-6.98	1.33	1.37
35	BB	2210	U	N3-C4	6.98	1.44	1.38
35	BB	2329	U	C2-N3	6.98	1.42	1.37
1	AA	1208	C	N3-C4	6.98	1.38	1.33
35	BB	708	G	C6-N1	6.98	1.44	1.39
35	BB	1265	A	N9-C4	-6.98	1.33	1.37
35	BB	2324	U	O3'-P	-6.98	1.52	1.61
35	BB	2447	G	C5-C4	-6.98	1.33	1.38
25	B0	71	ARG	NE-CZ	6.98	1.42	1.33
10	AJ	89	ARG	CZ-NH1	6.98	1.42	1.33
35	BB	142	A	C3'-C2'	6.98	1.60	1.52
35	BB	1130	U	C4'-C3'	6.98	1.60	1.53
35	BB	1502	A	N7-C5	6.98	1.43	1.39
35	BB	1594	U	C2-N3	6.98	1.42	1.37
35	BB	1973	G	N7-C5	-6.98	1.35	1.39
35	BB	2466	C	C4'-O4'	6.98	1.54	1.45
1	AA	686	U	C5'-C4'	6.98	1.59	1.51
35	BB	730	A	N9-C4	6.98	1.42	1.37
1	AA	356	A	C2'-O2'	6.97	1.50	1.41
1	AA	380	G	N1-C2	6.97	1.43	1.37
1	AA	776	G	C6-N1	6.97	1.44	1.39
35	BB	745	G	O3'-P	-6.97	1.52	1.61
35	BB	1437	C	C2-N3	6.97	1.41	1.35
35	BB	2142	A	N9-C4	6.97	1.42	1.37
35	BB	2834	G	C6-N1	6.97	1.44	1.39
1	AA	288	A	N3-C4	-6.97	1.30	1.34
1	AA	514	C	C3'-C2'	-6.97	1.45	1.52
34	BA	75	G	C6-N1	6.97	1.44	1.39
35	BB	2123	G	C5'-C4'	6.97	1.59	1.51
1	AA	261	U	N1-C2	6.97	1.44	1.38
34	BA	58	A	C5-C4	6.97	1.43	1.38
35	BB	1345	C	C2-N3	6.97	1.41	1.35
1	AA	720	C	O3'-P	-6.97	1.52	1.61
35	BB	53	A	N3-C4	-6.97	1.30	1.34
35	BB	873	C	C4'-C3'	-6.97	1.45	1.53
35	BB	1302	A	C5'-C4'	6.97	1.59	1.51
35	BB	1636	U	P-O5'	-6.97	1.52	1.59
35	BB	1772	A	N9-C8	6.97	1.43	1.37
35	BB	2648	G	C2-N2	6.97	1.41	1.34
1	AA	1369	C	C3'-C2'	-6.96	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2167	U	N1-C2	6.96	1.44	1.38
35	BB	2360	G	N1-C2	6.96	1.43	1.37
35	BB	1433	A	N9-C4	-6.96	1.33	1.37
35	BB	1564	C	C2-N3	6.96	1.41	1.35
35	BB	2017	U	C2-N3	6.96	1.42	1.37
35	BB	2358	A	C6-N6	6.96	1.39	1.33
35	BB	2567	G	N9-C8	6.96	1.42	1.37
1	AA	95	C	C4'-C3'	-6.96	1.45	1.53
1	AA	271	C	O4'-C1'	6.96	1.50	1.41
1	AA	1265	C	P-O5'	-6.96	1.52	1.59
35	BB	482	A	C2-N3	6.96	1.39	1.33
35	BB	660	C	C4-N4	6.96	1.40	1.33
35	BB	1857	G	N1-C2	6.96	1.43	1.37
35	BB	2503	A	C8-N7	-6.96	1.26	1.31
1	AA	454	G	C2-N2	6.96	1.41	1.34
35	BB	189	G	N9-C4	-6.96	1.32	1.38
1	AA	178	C	C2'-C1'	-6.96	1.45	1.53
35	BB	612	G	N9-C4	-6.96	1.32	1.38
35	BB	1252	G	N9-C4	-6.96	1.32	1.38
35	BB	1266	G	C2-N3	6.96	1.38	1.32
1	AA	394	G	N1-C2	6.96	1.43	1.37
1	AA	472	U	N1-C6	6.96	1.44	1.38
1	AA	484	G	C2'-C1'	-6.96	1.45	1.53
1	AA	1016	A	C4'-C3'	-6.96	1.45	1.53
35	BB	205	G	N9-C8	-6.96	1.32	1.37
35	BB	2148	G	C5'-C4'	6.96	1.59	1.51
35	BB	2224	G	C5-C6	-6.96	1.35	1.42
35	BB	2670	A	C8-N7	-6.96	1.26	1.31
35	BB	2777	G	N7-C5	-6.96	1.35	1.39
1	AA	780	A	C5'-C4'	6.96	1.59	1.51
35	BB	2384	U	O3'-P	-6.96	1.52	1.61
35	BB	2727	A	C2'-O2'	-6.96	1.32	1.41
1	AA	529	G	C6-N1	-6.95	1.34	1.39
1	AA	651	C	C3'-C2'	-6.95	1.45	1.52
1	AA	1324	A	N9-C4	6.95	1.42	1.37
9	AI	6	TYR	CB-CG	-6.95	1.41	1.51
34	BA	71	C	P-O5'	-6.95	1.52	1.59
35	BB	87	U	C2'-C1'	-6.95	1.45	1.53
35	BB	2275	C	C5'-C4'	6.95	1.59	1.51
35	BB	2658	C	N3-C4	6.95	1.38	1.33
35	BB	2534	A	C8-N7	-6.95	1.26	1.31
35	BB	541	A	N7-C5	-6.95	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2488	G	C6-N1	6.95	1.44	1.39
1	AA	1489	G	P-O5'	-6.95	1.52	1.59
35	BB	298	G	N3-C4	6.95	1.40	1.35
35	BB	1287	A	O3'-P	-6.95	1.52	1.61
1	AA	806	C	P-O5'	-6.95	1.52	1.59
34	BA	53	A	C5'-C4'	6.95	1.59	1.51
35	BB	1374	G	O3'-P	-6.95	1.52	1.61
35	BB	1773	A	P-O5'	-6.95	1.52	1.59
1	AA	457	G	N1-C2	6.95	1.43	1.37
35	BB	352	A	N7-C5	-6.95	1.35	1.39
35	BB	564	C	N1-C6	6.95	1.41	1.37
35	BB	850	U	P-O5'	-6.95	1.52	1.59
35	BB	2379	G	N1-C2	6.95	1.43	1.37
35	BB	64	A	C6-N6	6.94	1.39	1.33
35	BB	1128	G	C4'-C3'	6.94	1.60	1.53
1	AA	367	U	C3'-C2'	-6.94	1.45	1.52
35	BB	1378	A	C6-N6	6.94	1.39	1.33
35	BB	1778	U	P-O5'	-6.94	1.52	1.59
35	BB	2159	G	C2-N3	6.94	1.38	1.32
35	BB	2669	G	P-O5'	6.94	1.66	1.59
1	AA	143	A	C2'-C1'	6.94	1.60	1.53
35	BB	1098	A	P-O5'	-6.94	1.52	1.59
35	BB	1177	G	N1-C2	6.94	1.43	1.37
35	BB	1250	G	O3'-P	-6.94	1.52	1.61
35	BB	1638	C	C2'-O2'	-6.94	1.32	1.41
35	BB	2195	U	O3'-P	-6.94	1.52	1.61
1	AA	415	A	C6-N6	6.94	1.39	1.33
1	AA	568	G	C5'-C4'	6.94	1.59	1.51
1	AA	851	G	C2-N3	6.94	1.38	1.32
35	BB	1095	A	N9-C4	6.94	1.42	1.37
35	BB	1206	G	O3'-P	-6.94	1.52	1.61
35	BB	1894	C	C2-N3	6.94	1.41	1.35
35	BB	870	U	P-O5'	-6.94	1.52	1.59
35	BB	1055	G	C6-N1	6.94	1.44	1.39
35	BB	1409	U	N1-C2	6.94	1.44	1.38
35	BB	1844	C	P-O5'	-6.94	1.52	1.59
35	BB	2134	A	C5'-C4'	6.94	1.59	1.51
35	BB	2851	A	N3-C4	-6.94	1.30	1.34
1	AA	408	A	N7-C5	-6.94	1.35	1.39
1	AA	931	C	C4-N4	6.94	1.40	1.33
34	BA	36	C	C3'-C2'	-6.94	1.45	1.52
35	BB	644	A	O4'-C1'	6.94	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1853	A	C5'-C4'	6.94	1.59	1.51
35	BB	1888	G	C2-N3	6.94	1.38	1.32
1	AA	1045	C	N3-C4	6.93	1.38	1.33
35	BB	1213	A	C6-N1	6.93	1.40	1.35
1	AA	129	A	C2-N3	6.93	1.39	1.33
34	BA	96	G	C2-N3	6.93	1.38	1.32
35	BB	216	A	N9-C4	6.93	1.42	1.37
35	BB	1262	A	C6-N6	6.93	1.39	1.33
35	BB	1434	A	C2'-C1'	-6.93	1.45	1.53
35	BB	1900	A	O3'-P	-6.93	1.52	1.61
35	BB	1928	A	C6-N6	6.93	1.39	1.33
1	AA	587	G	N9-C8	-6.93	1.32	1.37
35	BB	184	C	N1-C6	6.93	1.41	1.37
35	BB	361	G	N1-C2	6.93	1.43	1.37
35	BB	881	G	N7-C5	-6.93	1.35	1.39
1	AA	1471	U	O4'-C1'	-6.93	1.32	1.41
35	BB	176	A	C5-C4	-6.93	1.33	1.38
35	BB	346	A	N3-C4	-6.93	1.30	1.34
35	BB	507	A	N9-C4	-6.93	1.33	1.37
35	BB	1705	A	C5-C6	6.93	1.47	1.41
35	BB	2015	A	N1-C2	-6.93	1.28	1.34
1	AA	886	G	N1-C2	6.93	1.43	1.37
34	BA	24	G	O3'-P	-6.93	1.52	1.61
34	BA	43	C	C4-N4	6.93	1.40	1.33
35	BB	2214	C	C5'-C4'	6.93	1.59	1.51
35	BB	2446	G	N1-C2	6.93	1.43	1.37
1	AA	237	G	C2-N3	6.93	1.38	1.32
1	AA	371	A	C5-C4	6.93	1.43	1.38
1	AA	487	A	N3-C4	-6.93	1.30	1.34
35	BB	537	G	P-O5'	-6.93	1.52	1.59
1	AA	41	G	C8-N7	-6.92	1.26	1.30
1	AA	423	G	C6-N1	6.92	1.44	1.39
1	AA	1248	A	C2'-C1'	-6.92	1.45	1.53
34	BA	4	C	N1-C6	-6.92	1.32	1.37
35	BB	414	C	C3'-C2'	-6.92	1.45	1.52
35	BB	761	A	C4'-O4'	6.92	1.54	1.45
35	BB	836	G	N1-C2	6.92	1.43	1.37
35	BB	1252	G	C6-N1	6.92	1.44	1.39
35	BB	1548	A	N7-C5	6.92	1.43	1.39
35	BB	2199	A	N7-C5	-6.92	1.35	1.39
35	BB	2545	G	C5'-C4'	-6.92	1.43	1.51
35	BB	2806	C	N1-C6	-6.92	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	587	G	C6-N1	6.92	1.44	1.39
35	BB	380	G	C4'-O4'	-6.92	1.36	1.45
34	BA	16	G	C2'-C1'	-6.92	1.45	1.53
35	BB	1818	U	C4'-O4'	-6.92	1.36	1.45
1	AA	1458	G	C4'-C3'	6.92	1.60	1.53
35	BB	290	U	C2-N3	-6.92	1.32	1.37
35	BB	1860	G	N1-C2	6.92	1.43	1.37
35	BB	2093	G	C4'-O4'	-6.92	1.36	1.45
36	BC	62	ARG	CD-NE	6.92	1.58	1.46
1	AA	367	U	C2'-C1'	-6.92	1.45	1.53
1	AA	954	G	N7-C5	-6.92	1.35	1.39
35	BB	1093	G	C2-N2	6.92	1.41	1.34
35	BB	2435	A	N7-C5	-6.92	1.35	1.39
35	BB	2764	A	N7-C5	-6.92	1.35	1.39
1	AA	314	C	C4-N4	6.92	1.40	1.33
1	AA	926	G	N9-C8	-6.92	1.33	1.37
35	BB	323	C	P-O5'	-6.92	1.52	1.59
35	BB	2489	U	C4-O4	-6.92	1.18	1.23
1	AA	539	A	N3-C4	-6.91	1.30	1.34
1	AA	1463	U	C4-C5	6.91	1.49	1.43
35	BB	53	A	C5-C4	6.91	1.43	1.38
35	BB	1241	A	C5-C4	6.91	1.43	1.38
35	BB	2049	G	P-O5'	-6.91	1.52	1.59
35	BB	2819	G	N7-C5	-6.91	1.35	1.39
35	BB	2873	A	N3-C4	6.91	1.39	1.34
1	AA	300	A	C5'-C4'	6.91	1.59	1.51
1	AA	1117	A	N7-C5	-6.91	1.35	1.39
35	BB	1134	A	N9-C4	-6.91	1.33	1.37
1	AA	94	G	C2-N3	6.91	1.38	1.32
1	AA	1416	G	C5'-C4'	-6.91	1.43	1.51
35	BB	218	A	N7-C5	-6.91	1.35	1.39
35	BB	2815	C	C2-N3	6.91	1.41	1.35
1	AA	215	C	C4-N4	6.91	1.40	1.33
1	AA	288	A	C8-N7	6.91	1.36	1.31
1	AA	710	G	C8-N7	-6.91	1.26	1.30
1	AA	941	G	C6-N1	6.91	1.44	1.39
1	AA	1430	A	C2-N3	6.91	1.39	1.33
35	BB	493	G	N1-C2	6.91	1.43	1.37
35	BB	2854	G	C5-C4	-6.91	1.33	1.38
1	AA	643	C	N1-C6	6.91	1.41	1.37
6	AF	79	ARG	CZ-NH1	6.91	1.42	1.33
35	BB	363	G	N7-C5	-6.91	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	762	U	C4-C5	6.91	1.49	1.43
35	BB	2703	C	C5-C6	-6.91	1.28	1.34
1	AA	1257	A	N9-C8	6.90	1.43	1.37
35	BB	323	C	C5-C6	-6.90	1.28	1.34
1	AA	1170	A	N7-C5	-6.90	1.35	1.39
1	AA	1236	A	N3-C4	6.90	1.39	1.34
35	BB	797	G	C2-N3	6.90	1.38	1.32
35	BB	1927	A	C6-N6	6.90	1.39	1.33
35	BB	2182	U	C5-C6	-6.90	1.27	1.34
1	AA	201	G	N3-C4	6.90	1.40	1.35
34	BA	112	G	N1-C2	6.90	1.43	1.37
35	BB	708	G	N3-C4	6.90	1.40	1.35
35	BB	1432	G	P-O5'	-6.90	1.52	1.59
35	BB	456	C	N1-C6	-6.90	1.33	1.37
35	BB	738	G	C2-N2	6.90	1.41	1.34
1	AA	414	A	N9-C4	-6.90	1.33	1.37
1	AA	540	G	N1-C2	6.90	1.43	1.37
1	AA	586	C	C3'-C2'	-6.90	1.45	1.52
1	AA	1020	G	N1-C2	6.90	1.43	1.37
35	BB	506	G	C6-N1	6.90	1.44	1.39
35	BB	517	C	C4-N4	6.90	1.40	1.33
35	BB	681	G	C2'-C1'	-6.90	1.45	1.53
35	BB	1311	G	C6-N1	6.90	1.44	1.39
35	BB	1412	U	C5'-C4'	6.90	1.59	1.51
35	BB	800	A	C8-N7	-6.90	1.26	1.31
35	BB	1958	C	N3-C4	6.90	1.38	1.33
35	BB	415	A	C6-N1	6.89	1.40	1.35
35	BB	1650	A	P-O5'	-6.89	1.52	1.59
35	BB	1887	C	C4-C5	6.89	1.48	1.43
35	BB	2886	A	C5-C4	6.89	1.43	1.38
1	AA	59	A	N9-C4	6.89	1.42	1.37
1	AA	89	U	C2'-C1'	-6.89	1.45	1.53
1	AA	134	G	N9-C4	-6.89	1.32	1.38
1	AA	739	C	N1-C6	-6.89	1.33	1.37
1	AA	1142	G	C2'-C1'	-6.89	1.45	1.53
1	AA	1431	A	C6-N1	6.89	1.40	1.35
35	BB	595	C	N3-C4	6.89	1.38	1.33
35	BB	756	A	C6-N6	6.89	1.39	1.33
35	BB	2860	A	C5-C4	6.89	1.43	1.38
35	BB	477	A	N7-C5	-6.89	1.35	1.39
1	AA	264	C	C2'-C1'	-6.89	1.45	1.53
35	BB	1051	G	N7-C5	6.89	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2220	U	C4-O4	-6.89	1.18	1.23
35	BB	2673	G	C4'-C3'	-6.89	1.45	1.53
35	BB	2881	U	N1-C6	-6.89	1.31	1.38
35	BB	521	U	P-O5'	-6.89	1.52	1.59
35	BB	1644	C	N1-C6	6.89	1.41	1.37
35	BB	2465	C	C2'-C1'	-6.89	1.45	1.53
1	AA	441	A	C8-N7	-6.89	1.26	1.31
1	AA	1292	G	P-O5'	-6.89	1.52	1.59
35	BB	31	C	N1-C6	-6.89	1.33	1.37
35	BB	2078	C	O3'-P	-6.89	1.52	1.61
35	BB	2325	G	P-O5'	-6.89	1.52	1.59
1	AA	319	G	N3-C4	6.88	1.40	1.35
34	BA	10	G	N1-C2	6.88	1.43	1.37
35	BB	508	A	P-O5'	-6.88	1.52	1.59
35	BB	2690	U	P-O5'	-6.88	1.52	1.59
1	AA	1129	C	C5-C6	-6.88	1.28	1.34
34	BA	15	A	C5-C6	-6.88	1.34	1.41
35	BB	103	A	C2'-C1'	-6.88	1.45	1.53
35	BB	1460	U	C2-O2	6.88	1.28	1.22
35	BB	1697	G	C6-N1	6.88	1.44	1.39
35	BB	1015	U	C4-C5	6.88	1.49	1.43
35	BB	1609	A	C8-N7	-6.88	1.26	1.31
35	BB	185	G	N1-C2	6.88	1.43	1.37
35	BB	249	C	C2'-C1'	6.88	1.60	1.53
35	BB	857	G	N9-C8	6.88	1.42	1.37
35	BB	985	C	P-O5'	-6.88	1.52	1.59
1	AA	357	G	N9-C8	6.88	1.42	1.37
35	BB	381	G	C5'-C4'	6.88	1.59	1.51
35	BB	845	A	C3'-O3'	6.88	1.51	1.42
35	BB	1196	C	N1-C2	6.88	1.47	1.40
1	AA	848	C	O3'-P	-6.88	1.52	1.61
1	AA	1090	U	C2'-C1'	-6.88	1.45	1.53
35	BB	121	G	C6-N1	6.88	1.44	1.39
35	BB	442	G	N1-C2	6.88	1.43	1.37
35	BB	845	A	C2-N3	-6.88	1.27	1.33
35	BB	2638	G	O3'-P	-6.88	1.52	1.61
35	BB	2705	A	N9-C8	6.88	1.43	1.37
1	AA	461	A	C6-N1	6.87	1.40	1.35
1	AA	500	G	C2-N3	6.87	1.38	1.32
31	B6	28	ARG	CD-NE	6.87	1.58	1.46
35	BB	959	A	N3-C4	-6.87	1.30	1.34
1	AA	139	A	N1-C2	6.87	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1242	G	C4'-C3'	6.87	1.60	1.53
35	BB	761	A	N3-C4	-6.87	1.30	1.34
35	BB	2143	C	C4'-O4'	-6.87	1.36	1.45
1	AA	244	U	N1-C6	6.87	1.44	1.38
1	AA	626	G	C2-N3	6.87	1.38	1.32
1	AA	1311	A	C8-N7	-6.87	1.26	1.31
35	BB	493	G	C2-N3	6.87	1.38	1.32
35	BB	964	C	C3'-C2'	-6.87	1.45	1.52
35	BB	1189	A	O3'-P	-6.87	1.52	1.61
1	AA	255	G	C2-N3	6.87	1.38	1.32
1	AA	275	G	N9-C8	6.87	1.42	1.37
1	AA	1192	C	P-O5'	-6.87	1.52	1.59
35	BB	1084	A	C2'-C1'	-6.87	1.45	1.53
35	BB	1212	G	C2-N3	6.87	1.38	1.32
35	BB	2547	A	N9-C4	-6.87	1.33	1.37
41	BH	27	ARG	NE-CZ	6.87	1.42	1.33
1	AA	558	G	C6-O6	-6.87	1.18	1.24
35	BB	448	U	C2'-C1'	-6.87	1.45	1.53
35	BB	1966	A	C2'-C1'	-6.87	1.45	1.53
1	AA	1091	U	P-O5'	-6.87	1.52	1.59
1	AA	1186	G	N7-C5	-6.87	1.35	1.39
30	B5	21	TYR	CG-CD2	6.87	1.48	1.39
35	BB	405	U	C4-O4	-6.87	1.18	1.23
35	BB	707	G	P-O5'	-6.87	1.52	1.59
35	BB	969	G	C6-N1	6.87	1.44	1.39
35	BB	1017	G	C4'-C3'	6.87	1.60	1.53
35	BB	2425	A	N9-C4	-6.87	1.33	1.37
1	AA	55	A	N9-C4	6.86	1.42	1.37
1	AA	251	G	C5-C4	6.86	1.43	1.38
1	AA	450	G	N3-C4	6.86	1.40	1.35
14	AN	68	ARG	NE-CZ	6.86	1.42	1.33
35	BB	456	C	C4-C5	6.86	1.48	1.43
35	BB	1580	A	N7-C5	-6.86	1.35	1.39
35	BB	1987	A	C2-N3	-6.86	1.27	1.33
35	BB	2429	G	C6-N1	6.86	1.44	1.39
35	BB	2639	A	N7-C5	-6.86	1.35	1.39
1	AA	813	U	C2-N3	6.86	1.42	1.37
1	AA	978	A	N9-C4	-6.86	1.33	1.37
35	BB	2462	C	C4-N4	6.86	1.40	1.33
1	AA	358	U	N3-C4	6.86	1.44	1.38
1	AA	1157	A	O4'-C1'	6.86	1.50	1.41
35	BB	1652	A	C4'-O4'	6.86	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BC	213	ARG	NE-CZ	6.86	1.42	1.33
1	AA	397	A	C6-N1	6.86	1.40	1.35
1	AA	128	G	P-O5'	-6.86	1.52	1.59
1	AA	1288	A	C5-C4	6.86	1.43	1.38
35	BB	438	G	N1-C2	6.86	1.43	1.37
35	BB	1486	U	P-O5'	-6.86	1.52	1.59
35	BB	204	A	C6-N6	6.86	1.39	1.33
35	BB	1858	A	C2-N3	-6.86	1.27	1.33
35	BB	1337	G	C5-C4	-6.85	1.33	1.38
35	BB	2621	G	C2-N3	6.85	1.38	1.32
1	AA	535	A	N7-C5	6.85	1.43	1.39
1	AA	1126	U	C4'-O4'	-6.85	1.36	1.45
1	AA	1163	A	N7-C5	-6.85	1.35	1.39
35	BB	304	U	N1-C6	6.85	1.44	1.38
35	BB	1854	A	C8-N7	6.85	1.36	1.31
35	BB	2482	A	C5-C4	6.85	1.43	1.38
35	BB	2669	G	C2-N2	6.85	1.41	1.34
1	AA	872	A	C4'-C3'	6.85	1.60	1.53
35	BB	410	G	C6-N1	6.85	1.44	1.39
35	BB	1509	A	N1-C2	6.85	1.40	1.34
1	AA	482	A	C2'-C1'	-6.85	1.45	1.53
35	BB	508	A	N7-C5	-6.85	1.35	1.39
35	BB	895	U	C5'-C4'	6.85	1.59	1.51
35	BB	1027	A	C5'-C4'	6.85	1.59	1.51
35	BB	1546	G	N1-C2	6.85	1.43	1.37
35	BB	2046	G	C5-C4	-6.85	1.33	1.38
35	BB	2144	G	N3-C4	6.85	1.40	1.35
35	BB	2519	U	N1-C6	-6.85	1.31	1.38
35	BB	2843	G	N3-C4	-6.85	1.30	1.35
35	BB	2857	G	C5'-C4'	6.85	1.59	1.51
1	AA	24	U	C2-N3	6.85	1.42	1.37
1	AA	227	G	C5-C6	-6.85	1.35	1.42
1	AA	258	G	N9-C4	-6.85	1.32	1.38
1	AA	565	U	C2-N3	6.85	1.42	1.37
1	AA	1312	G	C5-C4	6.85	1.43	1.38
34	BA	80	U	P-O5'	-6.85	1.52	1.59
35	BB	130	C	N3-C4	6.85	1.38	1.33
35	BB	1846	G	N7-C5	-6.85	1.35	1.39
35	BB	2219	U	C4'-C3'	6.85	1.60	1.53
35	BB	2901	C	C4-N4	6.85	1.40	1.33
10	AJ	68	ARG	CZ-NH1	6.85	1.42	1.33
35	BB	638	G	N1-C2	6.85	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	233	C	C4-C5	6.84	1.48	1.43
1	AA	853	C	C2-N3	6.84	1.41	1.35
1	AA	998	C	N1-C6	6.84	1.41	1.37
1	AA	1532	U	C4-C5	6.84	1.49	1.43
34	BA	112	G	C2-N3	6.84	1.38	1.32
35	BB	13	A	C4'-C3'	6.84	1.60	1.53
35	BB	159	G	C4'-O4'	-6.84	1.36	1.45
35	BB	356	G	N7-C5	-6.84	1.35	1.39
35	BB	601	C	O3'-P	-6.84	1.52	1.61
35	BB	1107	G	N9-C8	6.84	1.42	1.37
35	BB	2105	U	C3'-C2'	6.84	1.60	1.52
18	AR	35	SER	C-N	6.84	1.45	1.33
35	BB	974	G	C2'-C1'	-6.84	1.45	1.53
35	BB	1364	G	P-O5'	-6.84	1.52	1.59
35	BB	2213	U	N3-C4	6.84	1.44	1.38
1	AA	411	A	N9-C8	-6.84	1.32	1.37
1	AA	1105	A	C6-N6	6.84	1.39	1.33
34	BA	81	G	C3'-C2'	-6.84	1.45	1.52
35	BB	1086	A	N3-C4	-6.84	1.30	1.34
35	BB	1411	U	C2-N3	-6.84	1.32	1.37
35	BB	1858	A	N7-C5	-6.84	1.35	1.39
35	BB	2422	C	C3'-C2'	-6.84	1.45	1.52
1	AA	57	G	C2-N3	6.84	1.38	1.32
15	AO	88	ARG	CZ-NH1	6.84	1.42	1.33
35	BB	637	A	C2-N3	6.84	1.39	1.33
35	BB	921	C	N3-C4	6.84	1.38	1.33
35	BB	1304	A	N7-C5	-6.84	1.35	1.39
35	BB	1399	C	C2-N3	6.84	1.41	1.35
35	BB	2077	A	C6-N6	6.84	1.39	1.33
35	BB	2508	G	N1-C2	6.84	1.43	1.37
1	AA	80	A	N9-C8	6.84	1.43	1.37
1	AA	1192	C	N3-C4	6.84	1.38	1.33
35	BB	1494	A	C5-C6	-6.84	1.34	1.41
1	AA	243	A	N7-C5	-6.84	1.35	1.39
1	AA	496	A	C8-N7	-6.84	1.26	1.31
35	BB	396	G	C6-N1	6.84	1.44	1.39
35	BB	415	A	N9-C8	6.84	1.43	1.37
35	BB	684	G	C2-N3	6.84	1.38	1.32
35	BB	977	G	N1-C2	6.84	1.43	1.37
35	BB	2870	C	C5'-C4'	6.84	1.59	1.51
1	AA	1322	C	C4-C5	6.83	1.48	1.43
35	BB	2415	G	C2-N3	6.83	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	98	A	O3'-P	-6.83	1.52	1.61
35	BB	620	G	N9-C4	6.83	1.43	1.38
35	BB	750	A	C6-N1	6.83	1.40	1.35
35	BB	2500	U	C2'-C1'	-6.83	1.45	1.53
35	BB	2857	G	C5-C4	6.83	1.43	1.38
1	AA	361	G	N9-C8	6.83	1.42	1.37
1	AA	471	U	C2-N3	6.83	1.42	1.37
35	BB	1216	G	N1-C2	6.83	1.43	1.37
35	BB	1508	A	C6-N6	6.83	1.39	1.33
35	BB	1923	U	N1-C6	6.83	1.44	1.38
35	BB	2341	G	C5'-C4'	6.83	1.59	1.51
1	AA	66	A	P-O5'	-6.83	1.52	1.59
1	AA	515	G	C5-C4	6.83	1.43	1.38
34	BA	66	A	O3'-P	-6.83	1.52	1.61
35	BB	1115	G	N7-C5	-6.83	1.35	1.39
35	BB	1521	G	N9-C8	6.83	1.42	1.37
35	BB	548	G	C4'-O4'	6.83	1.54	1.45
35	BB	2353	G	C2-N3	6.83	1.38	1.32
1	AA	863	U	N1-C6	-6.83	1.31	1.38
1	AA	1092	A	C5'-C4'	6.83	1.59	1.51
35	BB	622	G	C4'-C3'	-6.83	1.45	1.53
1	AA	1105	A	N7-C5	-6.82	1.35	1.39
1	AA	1372	U	N3-C4	-6.82	1.32	1.38
35	BB	2	G	N7-C5	-6.82	1.35	1.39
35	BB	26	G	C2-N3	6.82	1.38	1.32
35	BB	193	U	C2-N3	6.82	1.42	1.37
35	BB	219	A	C6-N6	6.82	1.39	1.33
35	BB	499	U	P-O5'	-6.82	1.52	1.59
35	BB	1405	U	C2'-C1'	-6.82	1.45	1.53
35	BB	2440	C	C4-C5	6.82	1.48	1.43
35	BB	2806	C	O3'-P	-6.82	1.52	1.61
35	BB	2846	G	C6-N1	6.82	1.44	1.39
1	AA	1476	A	N9-C8	6.82	1.43	1.37
35	BB	1722	A	N7-C5	-6.82	1.35	1.39
35	BB	2732	G	N1-C2	6.82	1.43	1.37
1	AA	790	A	C2'-C1'	-6.82	1.45	1.53
35	BB	1815	A	C8-N7	-6.82	1.26	1.31
35	BB	2112	G	N7-C5	-6.82	1.35	1.39
1	AA	1070	U	O4'-C1'	6.82	1.50	1.41
1	AA	1109	C	C2-N3	6.82	1.41	1.35
1	AA	1358	U	N3-C4	6.82	1.44	1.38
35	BB	1671	U	C1'-N1	6.82	1.58	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2058	A	C8-N7	-6.82	1.26	1.31
1	AA	193	C	N1-C2	6.82	1.47	1.40
35	BB	2111	U	C2-N3	6.82	1.42	1.37
35	BB	2492	U	C4-O4	6.82	1.29	1.23
35	BB	60	G	C2-N2	6.82	1.41	1.34
35	BB	1463	C	P-O5'	-6.82	1.52	1.59
35	BB	1574	C	N3-C4	6.82	1.38	1.33
1	AA	759	A	P-O5'	-6.81	1.52	1.59
1	AA	1442	G	C6-N1	-6.81	1.34	1.39
22	AV	76	A	C6-N6	6.81	1.39	1.33
35	BB	1576	U	C2'-C1'	6.81	1.60	1.53
35	BB	2034	U	C2-N3	6.81	1.42	1.37
1	AA	776	G	N9-C4	-6.81	1.32	1.38
35	BB	80	G	C2-N3	6.81	1.38	1.32
35	BB	459	U	C2-N3	6.81	1.42	1.37
35	BB	2144	G	C2'-C1'	6.81	1.60	1.53
1	AA	1388	C	C2-N3	6.81	1.41	1.35
35	BB	365	U	C4'-C3'	6.81	1.60	1.53
35	BB	581	C	N1-C6	6.81	1.41	1.37
35	BB	737	C	C2'-C1'	-6.81	1.45	1.53
35	BB	1538	G	C2-N3	6.81	1.38	1.32
1	AA	795	C	C5'-C4'	6.81	1.59	1.51
1	AA	1163	A	N9-C4	-6.81	1.33	1.37
35	BB	682	G	N1-C2	6.81	1.43	1.37
35	BB	2291	U	C3'-C2'	-6.81	1.45	1.52
1	AA	452	A	N7-C5	-6.81	1.35	1.39
35	BB	1120	G	C3'-C2'	6.81	1.60	1.52
35	BB	1819	A	C6-N6	6.81	1.39	1.33
35	BB	1889	A	C3'-C2'	6.81	1.60	1.52
35	BB	2320	U	N1-C2	6.81	1.44	1.38
1	AA	6	G	O3'-P	-6.81	1.52	1.61
1	AA	1506	U	N1-C2	6.81	1.44	1.38
9	AI	112	ARG	CZ-NH1	6.81	1.41	1.33
35	BB	356	G	N1-C2	6.81	1.43	1.37
35	BB	1649	G	N9-C4	-6.81	1.32	1.38
35	BB	2415	G	C6-N1	6.81	1.44	1.39
1	AA	1101	A	C6-N1	6.80	1.40	1.35
1	AA	1207	G	N7-C5	-6.80	1.35	1.39
1	AA	1308	U	N1-C6	6.80	1.44	1.38
35	BB	16	C	C2-O2	-6.80	1.18	1.24
35	BB	2123	G	N3-C4	-6.80	1.30	1.35
50	BQ	32	ARG	NE-CZ	6.80	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	249	C	C2-N3	-6.80	1.30	1.35
1	AA	579	A	N9-C4	-6.80	1.33	1.37
1	AA	656	G	C5-C6	-6.80	1.35	1.42
10	AJ	5	ARG	CZ-NH1	6.80	1.41	1.33
35	BB	781	A	N9-C8	6.80	1.43	1.37
35	BB	1447	C	C2-N3	-6.80	1.30	1.35
35	BB	1448	G	C2-N2	6.80	1.41	1.34
35	BB	1798	U	C4-C5	6.80	1.49	1.43
35	BB	1899	A	C6-N1	6.80	1.40	1.35
35	BB	2064	C	C4-C5	6.80	1.48	1.43
35	BB	173	A	C5-C4	6.80	1.43	1.38
35	BB	1164	C	C2'-C1'	-6.80	1.45	1.53
35	BB	2128	G	C2-N3	6.80	1.38	1.32
35	BB	2603	G	C5-C6	-6.80	1.35	1.42
1	AA	641	U	N3-C4	6.80	1.44	1.38
1	AA	832	G	C8-N7	-6.80	1.26	1.30
35	BB	958	U	N3-C4	6.80	1.44	1.38
35	BB	1052	C	C4'-C3'	-6.80	1.45	1.53
35	BB	2401	U	N3-C4	6.80	1.44	1.38
1	AA	1149	C	C5'-C4'	6.80	1.59	1.51
35	BB	795	C	C2'-C1'	-6.80	1.45	1.53
35	BB	1492	G	P-O5'	-6.80	1.52	1.59
35	BB	2030	A	N9-C4	-6.80	1.33	1.37
35	BB	2437	G	C2-N3	6.80	1.38	1.32
1	AA	115	G	C2-N2	6.79	1.41	1.34
35	BB	2900	A	C5'-C4'	6.79	1.59	1.51
4	AD	22	SER	CA-CB	6.79	1.63	1.52
35	BB	904	G	C2-N3	6.79	1.38	1.32
35	BB	2156	G	N9-C8	6.79	1.42	1.37
35	BB	2225	A	N9-C4	-6.79	1.33	1.37
45	BL	37	GLY	CA-C	-6.79	1.41	1.51
1	AA	55	A	C5'-C4'	6.79	1.59	1.51
1	AA	94	G	C5-C4	6.79	1.43	1.38
1	AA	1080	A	O3'-P	-6.79	1.52	1.61
35	BB	551	G	C2-N3	6.79	1.38	1.32
35	BB	764	A	C5-C6	-6.79	1.34	1.41
35	BB	1078	U	C2-N3	6.79	1.42	1.37
35	BB	1497	U	C2-N3	6.79	1.42	1.37
35	BB	2324	U	C5'-C4'	6.79	1.59	1.51
1	AA	22	G	C6-N1	6.79	1.44	1.39
13	AM	70	ARG	CZ-NH1	6.79	1.41	1.33
32	B7	12	ARG	CZ-NH1	6.79	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	184	C	C5'-C4'	6.79	1.59	1.51
35	BB	188	G	C6-N1	6.79	1.44	1.39
35	BB	394	C	O3'-P	-6.79	1.53	1.61
35	BB	2242	G	N3-C4	-6.79	1.30	1.35
35	BB	2783	U	C5'-C4'	6.79	1.59	1.51
1	AA	192	A	O3'-P	-6.79	1.53	1.61
1	AA	1156	G	N7-C5	6.79	1.43	1.39
35	BB	518	G	P-O5'	6.79	1.66	1.59
1	AA	610	U	C4'-C3'	6.79	1.60	1.53
1	AA	681	A	C6-N1	6.79	1.40	1.35
1	AA	1082	A	C6-N6	6.79	1.39	1.33
1	AA	1463	U	N1-C6	6.79	1.44	1.38
1	AA	404	G	N3-C4	6.79	1.40	1.35
1	AA	806	C	N1-C6	6.79	1.41	1.37
1	AA	847	G	O4'-C1'	-6.79	1.32	1.41
1	AA	1342	C	O3'-P	-6.79	1.53	1.61
35	BB	443	A	C6-N6	6.79	1.39	1.33
35	BB	1074	G	O3'-P	-6.79	1.53	1.61
35	BB	2342	C	C4-N4	6.79	1.40	1.33
35	BB	2755	C	C4-C5	-6.79	1.37	1.43
1	AA	1101	A	C6-N6	6.78	1.39	1.33
35	BB	1062	G	C6-O6	-6.78	1.18	1.24
1	AA	18	C	C4-N4	6.78	1.40	1.33
35	BB	648	G	C2-N3	6.78	1.38	1.32
35	BB	659	G	C5-C6	-6.78	1.35	1.42
35	BB	971	G	C5-C6	-6.78	1.35	1.42
35	BB	1299	G	N1-C2	6.78	1.43	1.37
35	BB	1312	U	C1'-N1	6.78	1.58	1.48
35	BB	1639	C	C2'-C1'	-6.78	1.45	1.53
35	BB	1651	G	C3'-O3'	6.78	1.51	1.42
35	BB	2174	C	C5-C6	6.78	1.39	1.34
4	AD	169	TRP	CD2-CE2	6.78	1.49	1.41
35	BB	2546	U	P-O5'	-6.78	1.52	1.59
35	BB	78	U	C2-N3	6.78	1.42	1.37
35	BB	1063	G	C6-N1	6.78	1.44	1.39
1	AA	209	U	C4-O4	6.78	1.29	1.23
1	AA	496	A	N9-C4	6.78	1.42	1.37
1	AA	992	U	C4'-C3'	-6.78	1.45	1.53
35	BB	327	G	C5-C4	6.78	1.43	1.38
35	BB	513	A	N1-C2	6.78	1.40	1.34
35	BB	1945	G	O3'-P	-6.78	1.53	1.61
35	BB	2055	C	N3-C4	6.78	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2333	A	C2'-C1'	-6.78	1.45	1.53
35	BB	2700	A	C4'-O4'	6.78	1.54	1.45
35	BB	877	A	C6-N6	6.77	1.39	1.33
41	BH	131	SER	CA-CB	6.77	1.63	1.52
1	AA	1199	U	P-O5'	-6.77	1.52	1.59
35	BB	242	G	P-O5'	6.77	1.66	1.59
35	BB	339	U	C3'-O3'	6.77	1.51	1.42
35	BB	1140	C	C4-C5	6.77	1.48	1.43
1	AA	65	A	N7-C5	-6.77	1.35	1.39
1	AA	853	C	P-O5'	-6.77	1.52	1.59
35	BB	604	G	C6-N1	6.77	1.44	1.39
1	AA	917	G	N9-C8	6.77	1.42	1.37
35	BB	1245	G	N9-C8	-6.77	1.33	1.37
35	BB	2382	G	N7-C5	-6.77	1.35	1.39
35	BB	2404	U	N1-C2	6.77	1.44	1.38
1	AA	509	A	N1-C2	6.77	1.40	1.34
35	BB	178	G	N3-C4	-6.77	1.30	1.35
35	BB	222	A	C4'-C3'	6.77	1.60	1.53
35	BB	866	A	N9-C4	6.77	1.42	1.37
35	BB	1805	A	N7-C5	6.77	1.43	1.39
35	BB	2612	C	C3'-C2'	6.77	1.60	1.52
1	AA	236	A	C6-N1	6.77	1.40	1.35
1	AA	758	C	N3-C4	6.77	1.38	1.33
35	BB	935	C	N3-C4	6.77	1.38	1.33
35	BB	2635	A	N9-C4	6.77	1.42	1.37
1	AA	505	G	N3-C4	-6.76	1.30	1.35
1	AA	941	G	C2'-C1'	-6.76	1.46	1.53
1	AA	1496	C	N3-C4	6.76	1.38	1.33
35	BB	674	G	C8-N7	-6.76	1.26	1.30
35	BB	1642	G	C6-N1	6.76	1.44	1.39
35	BB	1723	G	N9-C4	6.76	1.43	1.38
35	BB	2799	A	C6-N1	6.76	1.40	1.35
35	BB	331	C	P-O5'	-6.76	1.52	1.59
35	BB	1237	A	C5-C4	-6.76	1.34	1.38
1	AA	158	G	N3-C4	-6.76	1.30	1.35
1	AA	261	U	C2-N3	6.76	1.42	1.37
1	AA	1064	G	C4'-C3'	6.76	1.60	1.53
1	AA	1316	G	C6-N1	-6.76	1.34	1.39
35	BB	79	C	N3-C4	6.76	1.38	1.33
35	BB	498	G	N3-C4	6.76	1.40	1.35
35	BB	931	U	C5-C6	6.76	1.40	1.34
35	BB	1973	G	O3'-P	-6.76	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2791	G	C4'-O4'	6.76	1.54	1.45
1	AA	929	G	C6-N1	6.76	1.44	1.39
35	BB	562	U	C2'-C1'	-6.76	1.46	1.53
35	BB	591	U	C3'-O3'	6.76	1.51	1.42
35	BB	2345	G	C6-N1	6.76	1.44	1.39
35	BB	2536	G	C8-N7	-6.76	1.26	1.30
35	BB	2826	A	C6-N1	6.76	1.40	1.35
1	AA	247	G	N9-C8	-6.76	1.33	1.37
13	AM	89	ARG	NE-CZ	6.76	1.41	1.33
35	BB	858	G	C5-C4	6.76	1.43	1.38
36	BC	269	ARG	NE-CZ	6.76	1.41	1.33
1	AA	48	C	C4-C5	6.76	1.48	1.43
1	AA	122	G	N7-C5	-6.76	1.35	1.39
1	AA	213	G	C5-C4	-6.76	1.33	1.38
1	AA	389	A	C5-C4	6.76	1.43	1.38
13	AM	69	ARG	CZ-NH1	6.76	1.41	1.33
35	BB	1395	A	C2'-C1'	-6.76	1.46	1.53
35	BB	1817	G	P-O5'	-6.76	1.52	1.59
35	BB	2142	A	O3'-P	-6.76	1.53	1.61
35	BB	2401	U	C4'-C3'	6.76	1.60	1.53
35	BB	941	A	C6-N1	6.75	1.40	1.35
1	AA	240	G	C2'-C1'	-6.75	1.46	1.53
1	AA	680	C	C2-N3	6.75	1.41	1.35
1	AA	801	U	C3'-C2'	6.75	1.60	1.52
1	AA	1256	A	C2'-C1'	-6.75	1.46	1.53
35	BB	771	G	C4'-C3'	-6.75	1.45	1.53
35	BB	2251	G	N1-C2	6.75	1.43	1.37
1	AA	1426	G	N7-C5	-6.75	1.35	1.39
35	BB	152	A	C6-N1	6.75	1.40	1.35
35	BB	288	U	C4'-C3'	-6.75	1.45	1.53
35	BB	384	A	C5'-C4'	-6.75	1.43	1.51
35	BB	1853	A	C2-N3	6.75	1.39	1.33
35	BB	1392	A	N1-C2	6.75	1.40	1.34
35	BB	1522	A	N9-C4	-6.75	1.33	1.37
35	BB	2370	G	N7-C5	-6.75	1.35	1.39
35	BB	2608	G	C6-O6	-6.75	1.18	1.24
35	BB	2804	U	O3'-P	-6.75	1.53	1.61
1	AA	263	A	C8-N7	-6.75	1.26	1.31
1	AA	280	C	C4-C5	6.75	1.48	1.43
1	AA	492	C	C4'-C3'	6.75	1.60	1.53
1	AA	788	U	N1-C6	-6.75	1.31	1.38
35	BB	107	G	C5'-C4'	6.75	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	614	A	C2-N3	6.75	1.39	1.33
35	BB	750	A	N9-C4	6.75	1.41	1.37
35	BB	911	A	P-O5'	6.75	1.66	1.59
35	BB	1791	A	C4'-O4'	-6.75	1.36	1.45
35	BB	2357	G	P-O5'	-6.75	1.53	1.59
35	BB	2669	G	C6-N1	6.75	1.44	1.39
34	BA	34	A	C2'-C1'	-6.75	1.46	1.53
35	BB	400	G	C8-N7	-6.75	1.26	1.30
35	BB	1057	A	C5-C4	-6.75	1.34	1.38
35	BB	1367	A	C2-N3	6.75	1.39	1.33
35	BB	1429	G	C2-N2	6.75	1.41	1.34
35	BB	1460	U	C2-N3	6.75	1.42	1.37
35	BB	2100	G	N3-C4	-6.75	1.30	1.35
35	BB	2284	A	C6-N6	6.75	1.39	1.33
35	BB	2310	C	C2-N3	6.75	1.41	1.35
35	BB	500	G	C2'-C1'	-6.75	1.46	1.53
35	BB	838	C	N3-C4	6.75	1.38	1.33
1	AA	267	C	O3'-P	-6.74	1.53	1.61
1	AA	1014	A	C8-N7	-6.74	1.26	1.31
35	BB	402	A	C3'-C2'	-6.74	1.45	1.52
35	BB	533	G	N7-C5	-6.74	1.35	1.39
35	BB	618	G	P-O5'	-6.74	1.53	1.59
35	BB	632	A	C4'-C3'	6.74	1.60	1.53
35	BB	1517	G	C5-C6	-6.74	1.35	1.42
35	BB	1844	C	N1-C2	-6.74	1.33	1.40
35	BB	2379	G	C2-N3	6.74	1.38	1.32
35	BB	2595	G	C6-N1	6.74	1.44	1.39
1	AA	319	G	O3'-P	-6.74	1.53	1.61
1	AA	1025	U	N3-C4	6.74	1.44	1.38
1	AA	1397	C	N1-C6	-6.74	1.33	1.37
35	BB	1843	C	N3-C4	6.74	1.38	1.33
1	AA	324	G	C2'-C1'	-6.74	1.46	1.53
1	AA	886	G	N7-C5	-6.74	1.35	1.39
1	AA	1369	C	C4'-C3'	6.74	1.60	1.53
35	BB	1370	C	P-O5'	-6.74	1.53	1.59
35	BB	1811	G	O3'-P	-6.74	1.53	1.61
35	BB	2303	G	N7-C5	-6.74	1.35	1.39
35	BB	2852	G	C2-N3	6.74	1.38	1.32
1	AA	271	C	N3-C4	6.74	1.38	1.33
1	AA	759	A	C6-N6	6.74	1.39	1.33
1	AA	947	G	C2-N3	6.74	1.38	1.32
1	AA	1531	A	C5-C6	6.74	1.47	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	61	C	N1-C6	-6.74	1.33	1.37
35	BB	761	A	C5-C4	6.74	1.43	1.38
35	BB	1678	A	C4'-O4'	6.74	1.54	1.45
35	BB	2117	A	C6-N6	6.74	1.39	1.33
1	AA	270	A	C5-C4	6.74	1.43	1.38
1	AA	856	C	C5-C6	-6.74	1.28	1.34
1	AA	1408	A	N3-C4	6.74	1.38	1.34
35	BB	1969	A	C6-N1	6.74	1.40	1.35
1	AA	62	U	P-O5'	-6.74	1.53	1.59
1	AA	746	A	C2-N3	6.74	1.39	1.33
35	BB	333	G	C8-N7	6.74	1.34	1.30
35	BB	360	U	N3-C4	6.74	1.44	1.38
35	BB	704	G	O3'-P	-6.74	1.53	1.61
35	BB	1249	U	C4'-O4'	-6.74	1.36	1.45
35	BB	1254	A	C4'-C3'	6.74	1.60	1.53
35	BB	1935	G	P-O5'	-6.73	1.53	1.59
1	AA	299	G	C2'-C1'	-6.73	1.46	1.53
34	BA	99	A	C5-C4	6.73	1.43	1.38
35	BB	291	G	N3-C4	-6.73	1.30	1.35
35	BB	342	A	N9-C8	-6.73	1.32	1.37
35	BB	857	G	N7-C5	-6.73	1.35	1.39
35	BB	1241	A	N7-C5	-6.73	1.35	1.39
35	BB	1544	A	N3-C4	-6.73	1.30	1.34
35	BB	1737	G	C4'-O4'	-6.73	1.36	1.45
35	BB	2177	C	C4'-C3'	-6.73	1.45	1.53
35	BB	2331	G	C2-N2	6.73	1.41	1.34
35	BB	2576	G	P-O5'	-6.73	1.53	1.59
35	BB	2700	A	N3-C4	6.73	1.38	1.34
35	BB	2799	A	C2'-C1'	-6.73	1.46	1.53
1	AA	22	G	N9-C4	-6.73	1.32	1.38
1	AA	79	G	C6-N1	6.73	1.44	1.39
1	AA	859	G	N9-C8	-6.73	1.33	1.37
35	BB	71	A	C3'-C2'	6.73	1.60	1.52
35	BB	74	A	N9-C4	6.73	1.41	1.37
35	BB	589	U	C5'-C4'	6.73	1.59	1.51
35	BB	2155	U	C2-N3	6.73	1.42	1.37
35	BB	2158	A	N9-C8	-6.73	1.32	1.37
35	BB	2474	U	C3'-O3'	6.73	1.51	1.42
1	AA	28	A	C6-N6	6.73	1.39	1.33
1	AA	278	G	N7-C5	6.73	1.43	1.39
1	AA	1335	U	P-O5'	-6.73	1.53	1.59
35	BB	670	A	C6-N6	6.73	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1357	C	C4-N4	6.73	1.40	1.33
35	BB	1517	G	P-O5'	-6.73	1.53	1.59
1	AA	310	G	C4'-C3'	6.73	1.60	1.53
1	AA	606	G	C2-N3	6.73	1.38	1.32
35	BB	65	U	C2'-C1'	-6.73	1.46	1.53
35	BB	91	A	C6-N1	6.73	1.40	1.35
35	BB	488	G	N9-C8	6.73	1.42	1.37
35	BB	799	G	C4'-C3'	-6.73	1.45	1.53
35	BB	1601	G	C6-N1	6.73	1.44	1.39
35	BB	1727	C	N1-C6	6.73	1.41	1.37
35	BB	2582	G	O4'-C1'	6.73	1.50	1.41
35	BB	2860	A	N9-C4	-6.73	1.33	1.37
1	AA	251	G	C2-N2	6.73	1.41	1.34
1	AA	818	G	C5-C4	6.73	1.43	1.38
1	AA	969	A	C6-N6	6.73	1.39	1.33
35	BB	774	G	C2-N3	6.73	1.38	1.32
35	BB	2330	G	N7-C5	-6.73	1.35	1.39
1	AA	223	A	C5-C4	6.72	1.43	1.38
35	BB	1645	G	O3'-P	-6.72	1.53	1.61
35	BB	2513	A	P-O5'	-6.72	1.53	1.59
1	AA	400	C	N1-C2	-6.72	1.33	1.40
1	AA	899	C	C2'-C1'	-6.72	1.46	1.53
35	BB	281	C	C2-N3	6.72	1.41	1.35
35	BB	731	C	C5'-C4'	6.72	1.59	1.51
35	BB	1259	G	C6-N1	6.72	1.44	1.39
35	BB	1522	A	N7-C5	-6.72	1.35	1.39
1	AA	1094	G	O4'-C1'	-6.72	1.32	1.41
1	AA	100	G	C5-C4	6.72	1.43	1.38
1	AA	781	A	C2-N3	6.72	1.39	1.33
35	BB	862	G	N1-C2	6.72	1.43	1.37
35	BB	1026	G	C4'-O4'	-6.72	1.36	1.45
35	BB	1538	G	N9-C4	-6.72	1.32	1.38
35	BB	2337	G	C6-N1	6.72	1.44	1.39
35	BB	93	G	P-O5'	6.72	1.66	1.59
35	BB	706	A	N3-C4	-6.72	1.30	1.34
35	BB	2147	A	C2'-C1'	-6.72	1.46	1.53
35	BB	686	U	P-O5'	-6.71	1.53	1.59
35	BB	770	G	C6-N1	6.71	1.44	1.39
35	BB	1156	A	O3'-P	-6.71	1.53	1.61
35	BB	1479	G	P-O5'	-6.71	1.53	1.59
35	BB	2641	G	P-O5'	-6.71	1.53	1.59
1	AA	134	G	O3'-P	-6.71	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	400	C	N3-C4	6.71	1.38	1.33
4	AD	61	ARG	NE-CZ	6.71	1.41	1.33
22	AV	6	C	C4-N4	6.71	1.40	1.33
35	BB	112	U	C2-N3	6.71	1.42	1.37
1	AA	9	G	N9-C8	-6.71	1.33	1.37
1	AA	179	A	N3-C4	-6.71	1.30	1.34
1	AA	320	A	N3-C4	-6.71	1.30	1.34
1	AA	1331	G	N3-C4	6.71	1.40	1.35
35	BB	105	C	C2'-C1'	-6.71	1.46	1.53
35	BB	1128	G	C6-N1	6.71	1.44	1.39
35	BB	1157	G	C8-N7	-6.71	1.26	1.30
35	BB	1509	A	C6-N6	6.71	1.39	1.33
35	BB	1615	C	C4'-O4'	6.71	1.54	1.45
35	BB	2162	G	C6-N1	6.71	1.44	1.39
35	BB	2875	C	P-O5'	-6.71	1.53	1.59
36	BC	81	GLU	N-CA	-6.71	1.32	1.46
35	BB	641	U	N1-C6	-6.71	1.31	1.38
1	AA	222	C	N1-C2	6.71	1.46	1.40
1	AA	921	U	C2-N3	6.71	1.42	1.37
1	AA	1291	U	C1'-N1	6.71	1.58	1.48
35	BB	263	G	N1-C2	6.71	1.43	1.37
35	BB	583	G	P-O5'	-6.71	1.53	1.59
35	BB	1295	C	O3'-P	-6.71	1.53	1.61
7	AG	114	SER	CA-CB	6.71	1.63	1.52
35	BB	1136	G	C6-N1	6.71	1.44	1.39
35	BB	1718	G	N7-C5	6.71	1.43	1.39
35	BB	2251	G	C8-N7	6.71	1.34	1.30
1	AA	1409	C	N1-C6	6.71	1.41	1.37
35	BB	910	A	C6-N1	6.71	1.40	1.35
35	BB	1431	A	N7-C5	-6.71	1.35	1.39
1	AA	499	A	C5-C4	6.70	1.43	1.38
1	AA	901	A	N3-C4	-6.70	1.30	1.34
35	BB	192	C	P-O5'	-6.70	1.53	1.59
35	BB	325	G	C8-N7	-6.70	1.26	1.30
35	BB	1084	A	P-O5'	-6.70	1.53	1.59
35	BB	2256	G	N7-C5	-6.70	1.35	1.39
1	AA	372	C	C4-N4	6.70	1.40	1.33
1	AA	595	A	N9-C8	-6.70	1.32	1.37
3	AC	64	ARG	CZ-NH1	6.70	1.41	1.33
35	BB	2648	G	C6-O6	6.70	1.30	1.24
1	AA	139	A	C8-N7	6.70	1.36	1.31
1	AA	651	C	C2-N3	6.70	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	864	G	N9-C8	-6.70	1.33	1.37
35	BB	1162	G	N7-C5	-6.70	1.35	1.39
35	BB	1613	G	N7-C5	-6.70	1.35	1.39
1	AA	1325	C	P-O5'	-6.70	1.53	1.59
35	BB	1890	A	N7-C5	-6.70	1.35	1.39
35	BB	2153	C	C2-N3	-6.70	1.30	1.35
35	BB	833	A	C6-N6	6.70	1.39	1.33
1	AA	720	C	C2'-C1'	-6.70	1.46	1.53
1	AA	1048	G	O3'-P	-6.70	1.53	1.61
34	BA	7	G	C2-N3	6.70	1.38	1.32
35	BB	226	A	O4'-C1'	-6.70	1.32	1.41
35	BB	1547	C	N1-C6	6.70	1.41	1.37
35	BB	39	G	P-O5'	-6.69	1.53	1.59
35	BB	51	G	N7-C5	6.69	1.43	1.39
35	BB	2059	A	N9-C4	-6.69	1.33	1.37
35	BB	2876	G	C8-N7	-6.69	1.26	1.30
1	AA	222	C	C4-N4	6.69	1.40	1.33
1	AA	276	G	N1-C2	6.69	1.43	1.37
1	AA	323	U	C5'-C4'	6.69	1.59	1.51
1	AA	1372	U	C5-C6	6.69	1.40	1.34
35	BB	495	G	C5-C6	-6.69	1.35	1.42
35	BB	903	C	C4-N4	6.69	1.40	1.33
35	BB	1704	C	C4-C5	6.69	1.48	1.43
35	BB	1978	A	P-O5'	-6.69	1.53	1.59
1	AA	1034	G	N9-C8	6.69	1.42	1.37
1	AA	1111	A	C6-N6	6.69	1.39	1.33
35	BB	11	C	N3-C4	6.69	1.38	1.33
35	BB	966	G	C2'-C1'	-6.69	1.46	1.53
1	AA	322	C	C4'-C3'	6.69	1.60	1.53
35	BB	725	G	O3'-P	-6.69	1.53	1.61
1	AA	881	G	C2'-C1'	-6.69	1.46	1.53
35	BB	512	G	N1-C2	6.69	1.43	1.37
35	BB	857	G	N1-C2	6.69	1.43	1.37
35	BB	1248	G	N7-C5	-6.69	1.35	1.39
35	BB	1334	G	C2-N3	6.69	1.38	1.32
35	BB	1586	A	C6-N6	6.69	1.39	1.33
1	AA	592	G	C5'-C4'	6.69	1.59	1.51
1	AA	1332	A	C8-N7	-6.69	1.26	1.31
1	AA	1494	G	C2-N2	6.69	1.41	1.34
5	AE	156	ARG	CD-NE	6.69	1.57	1.46
35	BB	330	A	N7-C5	-6.69	1.35	1.39
35	BB	1292	G	N9-C8	-6.69	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	269	C	C2'-C1'	-6.68	1.46	1.53
13	AM	100	ARG	CD-NE	6.68	1.57	1.46
35	BB	392	U	P-O5'	-6.68	1.53	1.59
35	BB	990	A	N3-C4	-6.68	1.30	1.34
35	BB	1810	A	C5-C4	6.68	1.43	1.38
35	BB	1853	A	N9-C4	-6.68	1.33	1.37
1	AA	1323	G	C4'-C3'	-6.68	1.45	1.53
34	BA	80	U	C2-N3	6.68	1.42	1.37
35	BB	198	C	N1-C6	-6.68	1.33	1.37
35	BB	565	C	C4'-C3'	6.68	1.60	1.53
35	BB	937	C	C4-N4	6.68	1.40	1.33
35	BB	1247	A	N3-C4	-6.68	1.30	1.34
35	BB	2006	C	C3'-C2'	-6.68	1.45	1.52
1	AA	1336	C	C5'-C4'	6.68	1.59	1.51
35	BB	706	A	N9-C8	6.68	1.43	1.37
35	BB	1367	A	O3'-P	-6.68	1.53	1.61
1	AA	50	A	N9-C4	-6.68	1.33	1.37
1	AA	240	G	N7-C5	6.68	1.43	1.39
1	AA	400	C	C3'-O3'	6.68	1.51	1.42
1	AA	407	U	C2-N3	6.68	1.42	1.37
1	AA	1353	G	N9-C4	-6.68	1.32	1.38
35	BB	858	G	C6-N1	6.68	1.44	1.39
35	BB	1786	A	C4'-C3'	-6.68	1.45	1.53
35	BB	2057	G	N7-C5	-6.68	1.35	1.39
35	BB	2711	A	N9-C4	6.68	1.41	1.37
1	AA	505	G	C2-N2	6.68	1.41	1.34
7	AG	78	ARG	NE-CZ	6.68	1.41	1.33
35	BB	323	C	O3'-P	-6.68	1.53	1.61
35	BB	466	A	C5'-C4'	6.68	1.59	1.51
35	BB	1469	A	C5-C4	6.68	1.43	1.38
35	BB	2151	U	O3'-P	-6.68	1.53	1.61
1	AA	1483	A	C3'-C2'	6.68	1.60	1.52
34	BA	61	G	C2-N2	-6.68	1.27	1.34
35	BB	587	C	N3-C4	6.68	1.38	1.33
35	BB	619	G	C6-N1	6.68	1.44	1.39
35	BB	839	U	N3-C4	6.68	1.44	1.38
35	BB	1219	U	N1-C6	6.68	1.44	1.38
35	BB	2616	C	C4-C5	-6.68	1.37	1.43
1	AA	1152	A	N7-C5	-6.67	1.35	1.39
35	BB	1077	A	C8-N7	6.67	1.36	1.31
35	BB	1155	A	C6-N6	6.67	1.39	1.33
35	BB	1180	U	C3'-C2'	-6.67	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1387	A	N9-C8	6.67	1.43	1.37
35	BB	1652	A	C3'-C2'	-6.67	1.45	1.52
35	BB	1663	G	N3-C4	-6.67	1.30	1.35
35	BB	1989	G	C5-C4	6.67	1.43	1.38
35	BB	2574	G	C4'-O4'	6.67	1.54	1.45
35	BB	2760	C	C4-C5	6.67	1.48	1.43
1	AA	969	A	C5-C6	-6.67	1.35	1.41
5	AE	49	TYR	CZ-OH	6.67	1.49	1.37
35	BB	917	A	C5-C4	-6.67	1.34	1.38
35	BB	1202	G	C2-N2	6.67	1.41	1.34
35	BB	2693	G	N7-C5	-6.67	1.35	1.39
35	BB	150	U	P-O5'	-6.67	1.53	1.59
35	BB	2038	G	C8-N7	6.67	1.34	1.30
1	AA	81	A	C6-N6	6.67	1.39	1.33
22	AV	7	G	N9-C8	6.67	1.42	1.37
1	AA	337	G	C4'-C3'	6.67	1.60	1.53
1	AA	1253	G	C6-N1	6.67	1.44	1.39
35	BB	473	G	C2-N3	6.67	1.38	1.32
35	BB	1373	A	C2'-C1'	-6.67	1.46	1.53
35	BB	1435	G	C2-N3	6.67	1.38	1.32
35	BB	2777	G	C6-N1	6.67	1.44	1.39
34	BA	41	G	N9-C8	6.67	1.42	1.37
35	BB	647	G	C2-N3	-6.67	1.27	1.32
35	BB	1099	G	C6-N1	6.67	1.44	1.39
35	BB	1345	C	P-O5'	-6.67	1.53	1.59
35	BB	2035	G	C2'-C1'	-6.67	1.46	1.53
35	BB	2184	A	C8-N7	-6.67	1.26	1.31
1	AA	530	G	P-O5'	-6.67	1.53	1.59
1	AA	1480	A	N7-C5	6.67	1.43	1.39
1	AA	102	G	N9-C8	-6.66	1.33	1.37
1	AA	467	U	N1-C2	-6.66	1.32	1.38
1	AA	1045	C	N1-C6	6.66	1.41	1.37
35	BB	952	G	N7-C5	-6.66	1.35	1.39
35	BB	1935	G	N3-C4	-6.66	1.30	1.35
35	BB	2145	C	C4-N4	6.66	1.40	1.33
35	BB	2437	G	N9-C8	-6.66	1.33	1.37
1	AA	386	C	C4-N4	6.66	1.40	1.33
35	BB	1062	G	C2-N3	6.66	1.38	1.32
35	BB	2717	C	C4-C5	-6.66	1.37	1.43
1	AA	227	G	C5'-C4'	6.66	1.59	1.51
47	BN	45	ARG	CD-NE	6.66	1.57	1.46
1	AA	326	G	C2-N3	6.66	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1733	G	N3-C4	-6.66	1.30	1.35
1	AA	1066	C	C4-C5	-6.66	1.37	1.43
1	AA	1115	U	P-O5'	-6.66	1.53	1.59
35	BB	2100	G	C2-N3	6.66	1.38	1.32
1	AA	225	C	C2'-C1'	-6.66	1.46	1.53
1	AA	925	G	P-O5'	-6.66	1.53	1.59
35	BB	127	A	N3-C4	-6.66	1.30	1.34
35	BB	529	A	C6-N1	6.66	1.40	1.35
35	BB	1454	C	C4'-C3'	-6.66	1.45	1.53
35	BB	1907	G	C5-C4	6.66	1.43	1.38
35	BB	2579	C	C5'-C4'	6.66	1.59	1.51
35	BB	2709	G	N3-C4	-6.66	1.30	1.35
1	AA	513	C	C4-N4	6.65	1.40	1.33
1	AA	669	G	C8-N7	-6.65	1.26	1.30
35	BB	796	C	C2'-C1'	-6.65	1.46	1.53
35	BB	1347	A	N3-C4	-6.65	1.30	1.34
35	BB	1385	A	N9-C4	6.65	1.41	1.37
48	BO	16	ARG	CD-NE	6.65	1.57	1.46
1	AA	98	A	C6-N1	6.65	1.40	1.35
35	BB	382	A	O3'-P	-6.65	1.53	1.61
35	BB	1442	U	C5'-C4'	6.65	1.59	1.51
35	BB	1473	G	O4'-C1'	6.65	1.50	1.41
35	BB	1807	G	N1-C2	6.65	1.43	1.37
35	BB	2136	G	C5-C4	6.65	1.43	1.38
35	BB	2495	G	N3-C4	-6.65	1.30	1.35
34	BA	99	A	C8-N7	-6.65	1.26	1.31
35	BB	147	C	N1-C6	-6.65	1.33	1.37
35	BB	232	G	N9-C8	-6.65	1.33	1.37
35	BB	340	A	C5-C4	6.65	1.43	1.38
35	BB	760	G	N9-C4	6.65	1.43	1.38
37	BD	83	ARG	NE-CZ	6.65	1.41	1.33
1	AA	156	C	O3'-P	-6.65	1.53	1.61
35	BB	84	A	N9-C4	-6.65	1.33	1.37
35	BB	1637	A	C2'-C1'	-6.65	1.46	1.53
35	BB	1959	G	N1-C2	6.65	1.43	1.37
1	AA	383	A	O3'-P	-6.65	1.53	1.61
1	AA	617	G	C6-O6	-6.65	1.18	1.24
1	AA	1523	G	C5-C4	-6.65	1.33	1.38
35	BB	1272	A	N3-C4	6.65	1.38	1.34
35	BB	1499	C	P-O5'	-6.65	1.53	1.59
35	BB	1661	G	P-O5'	-6.65	1.53	1.59
35	BB	1667	G	N9-C4	-6.65	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2291	U	C5'-C4'	6.65	1.59	1.51
35	BB	2598	A	N9-C4	-6.65	1.33	1.37
1	AA	864	A	N3-C4	-6.65	1.30	1.34
35	BB	2257	U	N1-C6	6.65	1.44	1.38
35	BB	2861	U	C2'-C1'	-6.65	1.46	1.53
1	AA	305	G	N7-C5	-6.64	1.35	1.39
1	AA	370	C	O3'-P	-6.64	1.53	1.61
1	AA	1008	U	C4-C5	6.64	1.49	1.43
35	BB	444	C	C2'-O2'	6.64	1.50	1.41
35	BB	568	U	P-O5'	-6.64	1.53	1.59
35	BB	1666	G	O4'-C1'	-6.64	1.33	1.41
35	BB	2618	G	N1-C2	6.64	1.43	1.37
1	AA	160	A	C2'-C1'	-6.64	1.46	1.53
1	AA	470	C	N3-C4	6.64	1.38	1.33
1	AA	681	A	C5'-C4'	6.64	1.59	1.51
1	AA	1128	C	C4-N4	6.64	1.40	1.33
1	AA	1450	U	C5'-C4'	6.64	1.59	1.51
34	BA	28	C	N3-C4	6.64	1.38	1.33
35	BB	297	G	N3-C4	-6.64	1.30	1.35
35	BB	301	G	C2-N3	6.64	1.38	1.32
35	BB	726	G	C5-C6	6.64	1.49	1.42
35	BB	1533	C	C5'-C4'	6.64	1.59	1.51
35	BB	1677	A	C3'-O3'	6.64	1.51	1.42
35	BB	2832	U	N1-C6	6.64	1.44	1.38
1	AA	60	A	P-O5'	-6.64	1.53	1.59
35	BB	1168	G	N7-C5	-6.64	1.35	1.39
35	BB	1480	C	N3-C4	6.64	1.38	1.33
1	AA	498	A	N7-C5	-6.64	1.35	1.39
1	AA	608	A	P-O5'	-6.64	1.53	1.59
1	AA	1316	G	N3-C4	6.64	1.40	1.35
35	BB	753	A	N9-C4	6.64	1.41	1.37
35	BB	1091	G	C6-N1	6.64	1.44	1.39
35	BB	1695	G	N1-C2	6.64	1.43	1.37
35	BB	1941	C	C5-C6	6.64	1.39	1.34
35	BB	2023	C	C4-N4	6.64	1.40	1.33
35	BB	2868	A	N9-C4	-6.64	1.33	1.37
1	AA	583	A	N9-C4	6.64	1.41	1.37
1	AA	1169	A	C8-N7	-6.64	1.26	1.31
1	AA	1440	U	O3'-P	-6.64	1.53	1.61
35	BB	260	G	C6-N1	6.64	1.44	1.39
35	BB	2281	A	C8-N7	-6.64	1.26	1.31
1	AA	583	A	C2'-C1'	-6.64	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	890	G	C5-C6	-6.64	1.35	1.42
1	AA	1176	A	C5-C4	6.64	1.43	1.38
1	AA	1268	G	C5-C4	6.64	1.43	1.38
34	BA	9	G	N1-C2	6.64	1.43	1.37
35	BB	121	G	C2-N2	6.64	1.41	1.34
35	BB	745	G	C8-N7	-6.64	1.26	1.30
35	BB	1863	G	N9-C8	-6.64	1.33	1.37
35	BB	2640	G	C6-O6	-6.64	1.18	1.24
1	AA	482	A	C6-N6	6.63	1.39	1.33
22	AV	71	C	C4'-O4'	6.63	1.54	1.45
35	BB	1115	G	O3'-P	-6.63	1.53	1.61
35	BB	1532	A	N9-C4	-6.63	1.33	1.37
35	BB	1936	A	C6-N1	6.63	1.40	1.35
35	BB	2423	U	C5'-C4'	6.63	1.59	1.51
35	BB	2887	A	C6-N1	6.63	1.40	1.35
35	BB	748	G	O3'-P	-6.63	1.53	1.61
35	BB	991	C	C4'-O4'	6.63	1.54	1.45
35	BB	1447	C	N1-C2	6.63	1.46	1.40
35	BB	1982	U	O3'-P	6.63	1.69	1.61
1	AA	623	C	P-O5'	-6.63	1.53	1.59
34	BA	46	A	C3'-C2'	-6.63	1.45	1.52
35	BB	1979	U	C4'-C3'	6.63	1.60	1.53
35	BB	2432	A	N7-C5	-6.63	1.35	1.39
35	BB	2600	A	C5-C4	6.63	1.43	1.38
35	BB	2641	G	N1-C2	6.63	1.43	1.37
35	BB	2771	C	C2-N3	6.63	1.41	1.35
40	BG	51	PHE	CB-CG	-6.63	1.40	1.51
34	BA	84	G	C2-N3	6.63	1.38	1.32
35	BB	496	G	N7-C5	-6.63	1.35	1.39
35	BB	1666	G	C5'-C4'	6.63	1.59	1.51
1	AA	1064	G	C6-N1	6.63	1.44	1.39
1	AA	1200	C	C4-C5	-6.63	1.37	1.43
35	BB	74	A	C6-N6	6.63	1.39	1.33
35	BB	504	A	N9-C8	6.63	1.43	1.37
35	BB	1136	G	C2'-C1'	-6.63	1.46	1.53
35	BB	1775	U	C5'-C4'	6.63	1.59	1.51
35	BB	2799	A	N9-C8	-6.63	1.32	1.37
1	AA	62	U	C5-C6	6.63	1.40	1.34
1	AA	400	C	C4-C5	6.63	1.48	1.43
1	AA	1280	A	C8-N7	-6.63	1.26	1.31
35	BB	312	G	C2-N2	6.63	1.41	1.34
35	BB	900	A	C6-N1	6.63	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1667	G	N7-C5	-6.63	1.35	1.39
35	BB	1745	A	C6-N1	6.63	1.40	1.35
35	BB	1965	C	C3'-O3'	6.63	1.51	1.42
35	BB	2048	G	C5-C4	-6.63	1.33	1.38
35	BB	2318	G	C6-O6	-6.63	1.18	1.24
1	AA	1014	A	C5'-C4'	6.62	1.59	1.51
1	AA	1188	A	N9-C8	6.62	1.43	1.37
35	BB	2249	U	O3'-P	-6.62	1.53	1.61
35	BB	2749	A	O3'-P	-6.62	1.53	1.61
36	BC	220	ARG	CD-NE	6.62	1.57	1.46
1	AA	1423	G	P-O5'	-6.62	1.53	1.59
35	BB	555	G	C4'-O4'	-6.62	1.36	1.45
35	BB	2326	C	O3'-P	-6.62	1.53	1.61
35	BB	2473	U	C2-N3	6.62	1.42	1.37
1	AA	473	U	N3-C4	6.62	1.44	1.38
1	AA	714	G	C2-N3	6.62	1.38	1.32
28	B3	49	ARG	NE-CZ	6.62	1.41	1.33
35	BB	1391	U	N3-C4	6.62	1.44	1.38
35	BB	1452	G	C5-C4	-6.62	1.33	1.38
35	BB	1537	G	C8-N7	-6.62	1.26	1.30
35	BB	2613	U	O3'-P	-6.62	1.53	1.61
35	BB	2823	A	O3'-P	-6.62	1.53	1.61
47	BN	90	ARG	CZ-NH2	6.62	1.41	1.33
35	BB	342	A	N3-C4	-6.62	1.30	1.34
35	BB	691	C	C5'-C4'	6.62	1.59	1.51
35	BB	2742	G	C6-N1	6.62	1.44	1.39
35	BB	152	A	N9-C8	-6.62	1.32	1.37
35	BB	345	A	C2-N3	6.62	1.39	1.33
35	BB	406	G	N7-C5	-6.62	1.35	1.39
35	BB	2803	G	C6-N1	6.62	1.44	1.39
1	AA	299	G	N1-C2	6.62	1.43	1.37
1	AA	1068	G	C2-N3	6.62	1.38	1.32
29	B4	19	PHE	CG-CD1	6.62	1.48	1.38
35	BB	324	A	N3-C4	-6.62	1.30	1.34
35	BB	194	G	C2'-O2'	-6.62	1.33	1.41
35	BB	1422	G	C2-N2	6.62	1.41	1.34
1	AA	560	A	C5-C4	-6.61	1.34	1.38
1	AA	851	G	C3'-C2'	-6.61	1.45	1.52
1	AA	1341	U	C5'-C4'	6.61	1.59	1.51
35	BB	766	U	N1-C6	-6.61	1.31	1.38
35	BB	974	G	C2-N2	6.61	1.41	1.34
35	BB	1540	G	C5'-C4'	6.61	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1710	G	C6-N1	6.61	1.44	1.39
35	BB	1900	A	C2-N3	6.61	1.39	1.33
35	BB	2896	C	N3-C4	6.61	1.38	1.33
35	BB	266	G	C6-N1	-6.61	1.34	1.39
35	BB	1450	G	C6-N1	6.61	1.44	1.39
35	BB	2281	A	N9-C4	-6.61	1.33	1.37
35	BB	2280	G	C5-C4	6.61	1.43	1.38
34	BA	95	U	N1-C2	6.61	1.44	1.38
35	BB	1530	G	C8-N7	-6.61	1.26	1.30
35	BB	2820	A	C2'-C1'	-6.61	1.46	1.53
1	AA	1057	G	N7-C5	-6.61	1.35	1.39
1	AA	1168	U	C5'-C4'	6.61	1.59	1.51
1	AA	1235	U	N1-C2	6.61	1.44	1.38
35	BB	688	U	C5'-C4'	6.61	1.59	1.51
35	BB	752	A	C2'-C1'	-6.61	1.46	1.53
35	BB	988	A	C5-C6	6.61	1.47	1.41
35	BB	993	G	C8-N7	6.61	1.34	1.30
35	BB	1116	G	C5-C4	6.61	1.43	1.38
35	BB	2571	U	C2-N3	6.61	1.42	1.37
35	BB	2644	G	N7-C5	-6.61	1.35	1.39
1	AA	219	U	C2'-C1'	-6.61	1.46	1.53
1	AA	394	G	N9-C8	6.61	1.42	1.37
1	AA	997	U	C4'-C3'	-6.61	1.45	1.53
1	AA	1473	G	O3'-P	-6.61	1.53	1.61
35	BB	470	A	C5'-C4'	6.61	1.59	1.51
35	BB	900	A	C3'-O3'	6.61	1.51	1.42
35	BB	945	A	C5'-C4'	6.61	1.59	1.51
35	BB	1035	U	N3-C4	6.61	1.44	1.38
35	BB	1437	C	C4'-C3'	-6.61	1.45	1.53
35	BB	1505	A	P-O5'	-6.61	1.53	1.59
35	BB	1604	C	C5'-C4'	6.61	1.59	1.51
35	BB	1775	U	N3-C4	6.61	1.44	1.38
35	BB	484	C	C4-N4	6.60	1.39	1.33
1	AA	215	C	O4'-C1'	-6.60	1.33	1.41
1	AA	234	C	N1-C6	6.60	1.41	1.37
1	AA	378	G	C4'-C3'	6.60	1.60	1.53
35	BB	920	A	C5-C4	-6.60	1.34	1.38
35	BB	1266	G	N9-C8	6.60	1.42	1.37
35	BB	1321	A	C6-N6	6.60	1.39	1.33
1	AA	347	G	C2-N3	6.60	1.38	1.32
1	AA	373	A	C6-N6	-6.60	1.28	1.33
1	AA	415	A	C8-N7	-6.60	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	439	U	N3-C4	6.60	1.44	1.38
1	AA	337	G	O3'-P	-6.60	1.53	1.61
1	AA	971	G	C6-N1	6.60	1.44	1.39
22	AV	37	G	C5-C4	-6.60	1.33	1.38
35	BB	391	A	C6-N1	6.60	1.40	1.35
35	BB	727	A	N7-C5	-6.60	1.35	1.39
35	BB	758	C	C5-C6	6.60	1.39	1.34
35	BB	1378	A	N9-C8	-6.60	1.32	1.37
35	BB	1875	G	N1-C2	6.60	1.43	1.37
39	BF	99	PHE	CB-CG	-6.60	1.40	1.51
1	AA	649	A	N9-C4	-6.60	1.33	1.37
1	AA	1231	G	C5-C6	-6.60	1.35	1.42
35	BB	139	U	N1-C6	6.60	1.43	1.38
35	BB	997	G	N7-C5	-6.60	1.35	1.39
35	BB	1360	G	N3-C4	-6.60	1.30	1.35
1	AA	445	G	O3'-P	-6.60	1.53	1.61
1	AA	927	G	C8-N7	-6.60	1.26	1.30
35	BB	156	A	C2'-C1'	-6.60	1.46	1.53
1	AA	684	U	C2-N3	6.59	1.42	1.37
1	AA	1033	G	C2'-C1'	-6.59	1.46	1.53
1	AA	1219	A	N3-C4	-6.59	1.30	1.34
35	BB	104	A	C2-N3	6.59	1.39	1.33
35	BB	243	U	C4-C5	-6.59	1.37	1.43
35	BB	940	G	C8-N7	-6.59	1.26	1.30
35	BB	1431	A	C6-N1	6.59	1.40	1.35
35	BB	1826	G	N7-C5	-6.59	1.35	1.39
35	BB	1903	G	N7-C5	-6.59	1.35	1.39
35	BB	2067	G	N7-C5	-6.59	1.35	1.39
1	AA	696	A	C5-C4	-6.59	1.34	1.38
35	BB	320	A	C8-N7	-6.59	1.26	1.31
1	AA	517	G	C5'-C4'	6.59	1.59	1.51
1	AA	557	G	C6-N1	6.59	1.44	1.39
35	BB	109	C	P-O5'	-6.59	1.53	1.59
35	BB	1756	G	N1-C2	6.59	1.43	1.37
35	BB	1767	G	C6-N1	6.59	1.44	1.39
35	BB	2061	G	N7-C5	-6.59	1.35	1.39
35	BB	2533	U	N1-C6	6.59	1.43	1.38
35	BB	2802	G	C5'-C4'	6.59	1.59	1.51
1	AA	641	U	C2-N3	6.59	1.42	1.37
1	AA	945	G	O3'-P	-6.59	1.53	1.61
1	AA	1136	C	C2-N3	6.59	1.41	1.35
35	BB	1455	G	N1-C2	6.59	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2194	U	N3-C4	6.59	1.44	1.38
35	BB	1742	U	C2-N3	6.59	1.42	1.37
35	BB	1913	A	C2-N3	-6.59	1.27	1.33
35	BB	2699	C	N3-C4	6.59	1.38	1.33
35	BB	2815	C	C2'-C1'	-6.59	1.46	1.53
1	AA	1488	G	C4'-O4'	-6.59	1.36	1.45
35	BB	675	A	P-O5'	-6.59	1.53	1.59
35	BB	745	G	N7-C5	6.59	1.43	1.39
35	BB	1001	A	N9-C8	6.59	1.43	1.37
35	BB	1878	G	C2'-C1'	-6.59	1.46	1.53
35	BB	2670	A	N9-C8	-6.59	1.32	1.37
35	BB	2125	G	C5'-C4'	6.58	1.59	1.51
1	AA	80	A	N3-C4	-6.58	1.30	1.34
1	AA	1423	G	C2-N2	6.58	1.41	1.34
35	BB	229	C	C4'-C3'	-6.58	1.46	1.53
35	BB	1187	G	C2-N3	6.58	1.38	1.32
35	BB	2569	G	C2'-C1'	-6.58	1.46	1.53
1	AA	129	A	C6-N6	6.58	1.39	1.33
35	BB	267	C	O3'-P	-6.58	1.53	1.61
35	BB	1300	G	O4'-C1'	-6.58	1.33	1.41
35	BB	1694	C	C4-N4	6.58	1.39	1.33
35	BB	1745	A	C4'-O4'	6.58	1.54	1.45
35	BB	1815	A	C6-N6	6.58	1.39	1.33
35	BB	1861	G	C2-N3	6.58	1.38	1.32
35	BB	2336	A	C6-N1	6.58	1.40	1.35
35	BB	2674	G	C5-C6	-6.58	1.35	1.42
1	AA	145	G	C2-N3	6.58	1.38	1.32
1	AA	1057	G	N3-C4	-6.58	1.30	1.35
35	BB	43	G	N7-C5	-6.58	1.35	1.39
35	BB	714	U	C3'-C2'	-6.58	1.45	1.52
35	BB	2136	G	N7-C5	-6.58	1.35	1.39
35	BB	240	C	O3'-P	-6.58	1.53	1.61
35	BB	793	A	C6-N1	6.58	1.40	1.35
35	BB	1166	G	C2-N3	6.58	1.38	1.32
35	BB	1271	G	N3-C4	-6.58	1.30	1.35
35	BB	2108	A	N1-C2	6.58	1.40	1.34
35	BB	2383	G	C6-N1	6.58	1.44	1.39
35	BB	2504	U	N3-C4	6.58	1.44	1.38
35	BB	2631	G	N7-C5	-6.58	1.35	1.39
1	AA	1012	A	C6-N1	6.58	1.40	1.35
35	BB	945	A	C2'-C1'	-6.58	1.46	1.53
52	BS	88	ARG	CZ-NH2	6.58	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	257	G	N7-C5	-6.58	1.35	1.39
1	AA	459	A	N3-C4	6.58	1.38	1.34
35	BB	7	G	C2'-C1'	-6.58	1.46	1.53
35	BB	901	C	P-O5'	-6.58	1.53	1.59
35	BB	1628	G	N1-C2	6.58	1.43	1.37
35	BB	2005	A	C5'-C4'	6.58	1.59	1.51
35	BB	2339	C	C4-N4	6.58	1.39	1.33
1	AA	1196	A	C5'-C4'	6.57	1.59	1.51
35	BB	247	G	O4'-C1'	-6.57	1.33	1.41
35	BB	1046	A	C5-C4	6.57	1.43	1.38
35	BB	1379	U	P-O5'	-6.57	1.53	1.59
35	BB	1613	G	N9-C8	6.57	1.42	1.37
35	BB	2280	G	C3'-C2'	-6.57	1.45	1.52
35	BB	2392	A	C6-N6	6.57	1.39	1.33
1	AA	203	G	C6-N1	6.57	1.44	1.39
1	AA	1503	A	C6-N6	6.57	1.39	1.33
35	BB	570	G	C2'-C1'	-6.57	1.46	1.53
35	BB	1963	U	C3'-C2'	6.57	1.60	1.52
35	BB	219	A	C5-C6	6.57	1.47	1.41
35	BB	227	A	N9-C8	-6.57	1.32	1.37
35	BB	1041	G	N1-C2	6.57	1.43	1.37
35	BB	2748	A	N9-C8	-6.57	1.32	1.37
35	BB	2751	G	C5'-C4'	6.57	1.59	1.51
1	AA	1329	A	C5-C4	6.57	1.43	1.38
34	BA	96	G	C8-N7	-6.57	1.27	1.30
35	BB	458	G	C5-C4	-6.57	1.33	1.38
35	BB	1718	G	C2-N3	6.57	1.38	1.32
35	BB	2414	G	C8-N7	6.57	1.34	1.30
35	BB	2615	U	N3-C4	6.57	1.44	1.38
1	AA	139	A	O3'-P	-6.57	1.53	1.61
1	AA	171	A	C6-N1	6.57	1.40	1.35
35	BB	1439	A	N9-C4	6.57	1.41	1.37
35	BB	2345	G	N1-C2	6.57	1.43	1.37
1	AA	126	G	N3-C4	-6.57	1.30	1.35
1	AA	138	G	C6-N1	6.57	1.44	1.39
1	AA	691	G	N7-C5	-6.57	1.35	1.39
1	AA	1221	G	N9-C4	-6.57	1.32	1.38
35	BB	349	U	N3-C4	6.57	1.44	1.38
35	BB	949	G	C2'-C1'	-6.57	1.46	1.53
35	BB	1271	G	C3'-O3'	6.57	1.51	1.42
35	BB	2410	G	C5-C6	-6.57	1.35	1.42
35	BB	2432	A	C5-C4	6.57	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	698	G	N3-C4	-6.56	1.30	1.35
46	BM	103	TYR	CZ-OH	6.56	1.49	1.37
1	AA	459	A	N7-C5	6.56	1.43	1.39
35	BB	1184	U	C3'-C2'	-6.56	1.45	1.52
35	BB	1293	C	C5'-C4'	6.56	1.59	1.51
35	BB	1407	G	N3-C4	6.56	1.40	1.35
35	BB	1424	G	C2-N3	6.56	1.38	1.32
35	BB	1987	A	C2'-C1'	-6.56	1.46	1.53
1	AA	580	C	N1-C6	6.56	1.41	1.37
1	AA	847	G	N7-C5	-6.56	1.35	1.39
1	AA	1049	U	C4'-C3'	6.56	1.60	1.53
1	AA	1423	G	C2-N3	6.56	1.38	1.32
35	BB	1785	A	C5-C4	-6.56	1.34	1.38
1	AA	1413	A	P-O5'	-6.56	1.53	1.59
35	BB	1130	U	N1-C6	6.56	1.43	1.38
1	AA	574	A	C6-N1	6.56	1.40	1.35
1	AA	703	G	C4'-C3'	-6.56	1.46	1.53
1	AA	1368	A	C5'-C4'	6.56	1.59	1.51
35	BB	671	C	C4-N4	6.56	1.39	1.33
35	BB	2488	G	C5-C4	-6.56	1.33	1.38
35	BB	2844	G	C5-C4	6.56	1.43	1.38
51	BR	13	ARG	NE-CZ	6.56	1.41	1.33
35	BB	678	C	C4-C5	-6.56	1.37	1.43
1	AA	885	G	C2-N3	6.55	1.38	1.32
1	AA	1075	U	N1-C2	-6.55	1.32	1.38
35	BB	332	A	N3-C4	-6.55	1.30	1.34
35	BB	1441	G	P-O5'	-6.55	1.53	1.59
35	BB	1586	A	C8-N7	-6.55	1.26	1.31
9	AI	79	ARG	NE-CZ	6.55	1.41	1.33
35	BB	909	A	N9-C4	6.55	1.41	1.37
35	BB	1074	G	C5-C6	-6.55	1.35	1.42
35	BB	1482	G	C8-N7	-6.55	1.27	1.30
35	BB	1550	C	N3-C4	6.55	1.38	1.33
35	BB	2019	A	N1-C2	6.55	1.40	1.34
1	AA	123	U	C2'-C1'	-6.55	1.46	1.53
1	AA	544	G	C2-N3	6.55	1.38	1.32
1	AA	926	G	C6-N1	6.55	1.44	1.39
35	BB	83	A	N7-C5	-6.55	1.35	1.39
35	BB	188	G	C2-N3	6.55	1.38	1.32
35	BB	1112	G	C5-C4	-6.55	1.33	1.38
35	BB	1311	G	C8-N7	6.55	1.34	1.30
35	BB	1377	G	N3-C4	-6.55	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2852	G	C2'-C1'	-6.55	1.46	1.53
1	AA	664	G	N9-C4	6.55	1.43	1.38
1	AA	1039	G	C2-N3	6.55	1.38	1.32
22	AV	3	G	C2'-C1'	-6.55	1.46	1.53
35	BB	153	U	C5'-C4'	6.55	1.59	1.51
35	BB	226	A	O3'-P	-6.55	1.53	1.61
35	BB	333	G	P-O5'	-6.55	1.53	1.59
35	BB	977	G	C2'-C1'	-6.55	1.46	1.53
35	BB	1051	G	C6-N1	6.55	1.44	1.39
35	BB	1569	A	C2'-C1'	-6.55	1.46	1.53
35	BB	600	G	N9-C8	6.55	1.42	1.37
35	BB	856	G	C2-N3	6.55	1.38	1.32
35	BB	1117	C	C2'-C1'	-6.55	1.46	1.53
35	BB	1916	A	C8-N7	6.55	1.36	1.31
35	BB	2071	A	C5-C4	6.55	1.43	1.38
35	BB	2189	U	C4-C5	6.55	1.49	1.43
35	BB	2731	G	N9-C8	-6.55	1.33	1.37
1	AA	527	G	N7-C5	-6.55	1.35	1.39
1	AA	1160	G	C2'-C1'	-6.55	1.46	1.53
15	AO	13	GLU	CD-OE2	6.55	1.32	1.25
35	BB	254	G	C5-C4	6.55	1.43	1.38
35	BB	804	A	C6-N6	6.55	1.39	1.33
35	BB	1554	U	C2-N3	6.55	1.42	1.37
35	BB	1896	G	C5'-C4'	6.55	1.59	1.51
35	BB	1522	A	P-O5'	-6.54	1.53	1.59
35	BB	1989	G	C2-N2	6.54	1.41	1.34
1	AA	359	G	N3-C4	-6.54	1.30	1.35
1	AA	753	A	C6-N6	6.54	1.39	1.33
1	AA	1329	A	O4'-C1'	6.54	1.50	1.41
35	BB	1579	A	C8-N7	-6.54	1.26	1.31
35	BB	2266	A	C6-N1	6.54	1.40	1.35
1	AA	41	G	O3'-P	-6.54	1.53	1.61
1	AA	180	U	N1-C6	-6.54	1.32	1.38
1	AA	988	G	N7-C5	-6.54	1.35	1.39
35	BB	83	A	N3-C4	6.54	1.38	1.34
35	BB	380	G	N9-C8	6.54	1.42	1.37
35	BB	1896	G	C4'-C3'	6.54	1.60	1.53
35	BB	2194	U	C2-N3	6.54	1.42	1.37
1	AA	1267	C	N1-C6	6.54	1.41	1.37
35	BB	1926	U	C4-C5	6.54	1.49	1.43
35	BB	2491	U	N1-C6	6.54	1.43	1.38
1	AA	396	C	N1-C6	6.54	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	974	A	N3-C4	6.54	1.38	1.34
1	AA	1354	U	C2'-C1'	-6.54	1.46	1.53
35	BB	490	C	C3'-O3'	6.54	1.51	1.42
35	BB	866	A	C2'-C1'	-6.54	1.46	1.53
35	BB	969	G	O3'-P	-6.54	1.53	1.61
35	BB	1003	G	C6-O6	6.54	1.30	1.24
35	BB	1061	U	C2-N3	6.54	1.42	1.37
35	BB	2792	A	C6-N1	6.54	1.40	1.35
35	BB	1670	C	P-O5'	6.54	1.66	1.59
1	AA	465	A	C6-N6	6.54	1.39	1.33
1	AA	1387	G	N7-C5	-6.54	1.35	1.39
1	AA	1408	A	C6-N1	6.54	1.40	1.35
35	BB	489	G	C2-N2	6.54	1.41	1.34
35	BB	791	C	C4'-C3'	6.54	1.60	1.53
35	BB	1081	U	N3-C4	-6.54	1.32	1.38
35	BB	1479	G	N1-C2	6.54	1.43	1.37
35	BB	1929	G	C5-C4	6.54	1.43	1.38
35	BB	2799	A	N7-C5	6.54	1.43	1.39
1	AA	1483	A	N3-C4	-6.53	1.30	1.34
35	BB	918	A	N7-C5	-6.53	1.35	1.39
35	BB	1405	U	P-O5'	-6.53	1.53	1.59
35	BB	2667	C	C2-O2	6.53	1.30	1.24
35	BB	2816	G	C2-N3	6.53	1.38	1.32
37	BD	117	GLY	CA-C	-6.53	1.41	1.51
27	B2	30	ARG	CZ-NH1	6.53	1.41	1.33
35	BB	2577	A	O4'-C1'	-6.53	1.33	1.41
1	AA	77	A	N9-C4	6.53	1.41	1.37
1	AA	799	G	P-O5'	-6.53	1.53	1.59
1	AA	963	G	O4'-C1'	6.53	1.50	1.41
35	BB	1056	G	C4'-C3'	-6.53	1.46	1.53
35	BB	1455	G	N3-C4	6.53	1.40	1.35
35	BB	2453	A	C5-C4	6.53	1.43	1.38
35	BB	2800	A	C4'-O4'	6.53	1.54	1.45
1	AA	310	G	N7-C5	-6.53	1.35	1.39
35	BB	793	A	C3'-C2'	6.53	1.60	1.52
35	BB	1503	A	C8-N7	-6.53	1.26	1.31
35	BB	1901	A	O3'-P	-6.53	1.53	1.61
34	BA	31	C	C4-N4	6.53	1.39	1.33
35	BB	283	G	C2-N2	6.53	1.41	1.34
35	BB	693	A	C6-N6	6.53	1.39	1.33
35	BB	855	G	C6-N1	6.53	1.44	1.39
35	BB	1510	G	C5-C6	-6.53	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	33	A	C4'-C3'	6.53	1.60	1.53
1	AA	868	C	N1-C6	6.53	1.41	1.37
1	AA	1170	A	N3-C4	-6.53	1.30	1.34
35	BB	44	A	C6-N6	6.53	1.39	1.33
35	BB	48	G	C5-C4	6.53	1.43	1.38
35	BB	1546	G	C6-N1	6.53	1.44	1.39
35	BB	1651	G	C4'-C3'	6.53	1.60	1.53
35	BB	2720	U	N3-C4	-6.53	1.32	1.38
35	BB	818	G	C8-N7	-6.52	1.27	1.30
35	BB	1979	U	C2-O2	6.52	1.28	1.22
1	AA	649	A	C2-N3	6.52	1.39	1.33
1	AA	791	G	N9-C8	-6.52	1.33	1.37
1	AA	1309	G	C4'-O4'	6.52	1.54	1.45
35	BB	55	G	P-O5'	-6.52	1.53	1.59
35	BB	452	G	C5'-C4'	6.52	1.59	1.51
35	BB	906	U	C2'-C1'	-6.52	1.46	1.53
35	BB	1275	A	C5-C6	-6.52	1.35	1.41
35	BB	2784	U	P-O5'	-6.52	1.53	1.59
35	BB	2868	A	C8-N7	-6.52	1.26	1.31
1	AA	1129	C	N3-C4	6.52	1.38	1.33
35	BB	2868	A	P-O5'	-6.52	1.53	1.59
1	AA	323	U	N1-C6	-6.52	1.32	1.38
1	AA	987	G	C1'-N9	-6.52	1.37	1.46
1	AA	1212	U	C4'-C3'	6.52	1.60	1.53
1	AA	1245	C	C4-C5	6.52	1.48	1.43
3	AC	163	ARG	NE-CZ	6.52	1.41	1.33
35	BB	307	G	C4'-C3'	6.52	1.60	1.53
35	BB	475	C	C4-N4	6.52	1.39	1.33
35	BB	1034	G	O4'-C1'	6.52	1.50	1.41
35	BB	1213	A	C6-N6	6.52	1.39	1.33
35	BB	2394	C	N1-C6	-6.52	1.33	1.37
35	BB	2453	A	C3'-C2'	-6.52	1.45	1.52
1	AA	441	A	C5-C4	-6.52	1.34	1.38
1	AA	733	G	N9-C8	6.52	1.42	1.37
1	AA	1126	U	C2'-C1'	-6.52	1.46	1.53
1	AA	1136	C	C2-O2	-6.52	1.18	1.24
34	BA	15	A	N9-C4	-6.52	1.33	1.37
35	BB	1476	U	C5'-C4'	6.52	1.59	1.51
1	AA	234	C	C1'-N1	6.52	1.58	1.48
1	AA	845	A	C6-N1	6.52	1.40	1.35
1	AA	1286	U	C5-C6	6.52	1.40	1.34
35	BB	711	G	C4'-C3'	-6.52	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	278	G	N9-C8	-6.51	1.33	1.37
1	AA	1016	A	N3-C4	6.51	1.38	1.34
22	AV	68	U	C4-O4	-6.51	1.18	1.23
35	BB	492	A	N9-C4	6.51	1.41	1.37
1	AA	143	A	O3'-P	-6.51	1.53	1.61
1	AA	148	G	N9-C4	-6.51	1.32	1.38
1	AA	526	C	N1-C6	6.51	1.41	1.37
1	AA	969	A	C4'-O4'	6.51	1.54	1.45
34	BA	4	C	C5-C6	-6.51	1.29	1.34
35	BB	696	G	C5'-C4'	6.51	1.59	1.51
35	BB	1170	C	P-O5'	-6.51	1.53	1.59
35	BB	1753	G	C8-N7	6.51	1.34	1.30
1	AA	252	U	C2-N3	6.51	1.42	1.37
1	AA	279	A	C2'-C1'	-6.51	1.46	1.53
1	AA	1431	A	N3-C4	-6.51	1.30	1.34
34	BA	61	G	N3-C4	-6.51	1.30	1.35
35	BB	676	A	N1-C2	6.51	1.40	1.34
35	BB	1653	G	C2-N3	6.51	1.38	1.32
35	BB	1790	C	P-O5'	-6.51	1.53	1.59
35	BB	2525	G	C6-N1	-6.51	1.34	1.39
35	BB	2770	G	C2'-C1'	-6.51	1.46	1.53
35	BB	2785	C	C5-C6	-6.51	1.29	1.34
34	BA	23	G	N3-C4	6.51	1.40	1.35
35	BB	264	C	O3'-P	-6.51	1.53	1.61
35	BB	1431	A	N9-C4	-6.51	1.33	1.37
35	BB	2351	G	O3'-P	-6.51	1.53	1.61
35	BB	2511	U	N3-C4	6.51	1.44	1.38
48	BO	55	GLU	CG-CD	6.51	1.61	1.51
35	BB	2494	G	O3'-P	-6.51	1.53	1.61
35	BB	2886	A	N9-C8	6.51	1.43	1.37
1	AA	544	G	O3'-P	-6.51	1.53	1.61
1	AA	1189	U	O3'-P	-6.51	1.53	1.61
1	AA	1198	G	C6-N1	6.51	1.44	1.39
35	BB	42	A	N9-C4	6.51	1.41	1.37
35	BB	1504	A	N9-C4	6.51	1.41	1.37
35	BB	1875	G	C2-N3	6.51	1.38	1.32
35	BB	1952	A	C6-N6	6.51	1.39	1.33
35	BB	2161	C	N1-C6	-6.51	1.33	1.37
35	BB	2255	G	N3-C4	-6.51	1.30	1.35
35	BB	2568	U	P-O5'	-6.51	1.53	1.59
35	BB	66	C	C5-C6	-6.50	1.29	1.34
35	BB	1651	G	C5-C6	-6.50	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2161	C	C4-N4	6.50	1.39	1.33
1	AA	539	A	C8-N7	-6.50	1.26	1.31
1	AA	636	U	N1-C6	-6.50	1.32	1.38
1	AA	882	C	C4'-C3'	-6.50	1.46	1.53
1	AA	1070	U	C2'-C1'	-6.50	1.46	1.53
1	AA	1299	A	C3'-C2'	6.50	1.60	1.52
35	BB	266	G	N7-C5	6.50	1.43	1.39
35	BB	322	A	N9-C4	-6.50	1.33	1.37
35	BB	1204	A	C6-N1	6.50	1.40	1.35
35	BB	2821	A	C6-N6	6.50	1.39	1.33
1	AA	538	G	N7-C5	-6.50	1.35	1.39
1	AA	768	A	N3-C4	-6.50	1.30	1.34
35	BB	111	A	C5-C4	6.50	1.43	1.38
35	BB	838	C	C4-N4	6.50	1.39	1.33
35	BB	1028	A	C2'-C1'	-6.50	1.46	1.53
34	BA	99	A	N1-C2	6.50	1.40	1.34
35	BB	728	G	N9-C8	6.50	1.42	1.37
1	AA	487	A	C6-N6	6.50	1.39	1.33
35	BB	522	A	C5-C4	6.50	1.43	1.38
35	BB	1091	G	C2'-C1'	-6.50	1.46	1.53
35	BB	1566	A	C5'-C4'	6.50	1.59	1.51
35	BB	2520	C	C2-N3	6.50	1.41	1.35
35	BB	2692	G	C3'-C2'	6.50	1.60	1.52
1	AA	80	A	C6-N1	6.50	1.40	1.35
1	AA	856	C	P-O5'	6.50	1.66	1.59
1	AA	1275	A	C8-N7	-6.50	1.27	1.31
35	BB	162	U	C2-N3	6.50	1.42	1.37
35	BB	249	C	N1-C6	6.50	1.41	1.37
35	BB	1189	A	C5'-C4'	6.50	1.59	1.51
35	BB	1212	G	N7-C5	-6.50	1.35	1.39
35	BB	1465	G	O3'-P	-6.50	1.53	1.61
35	BB	1764	C	C4-N4	6.50	1.39	1.33
35	BB	2059	A	N9-C8	6.50	1.43	1.37
35	BB	106	C	C4-N4	6.49	1.39	1.33
35	BB	1225	G	N9-C8	6.49	1.42	1.37
35	BB	1970	A	P-O5'	-6.49	1.53	1.59
35	BB	2653	U	P-O5'	-6.49	1.53	1.59
45	BL	78	ARG	CD-NE	6.49	1.57	1.46
35	BB	372	G	C5-C4	-6.49	1.33	1.38
35	BB	1669	A	C8-N7	-6.49	1.27	1.31
35	BB	2431	U	C2'-C1'	-6.49	1.46	1.53
1	AA	942	G	C2-N3	6.49	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	955	U	C4-O4	6.49	1.28	1.23
35	BB	1554	U	C4-C5	6.49	1.49	1.43
35	BB	531	C	P-O5'	-6.49	1.53	1.59
35	BB	1021	A	C8-N7	-6.49	1.27	1.31
35	BB	1356	G	C8-N7	-6.49	1.27	1.30
35	BB	1683	U	C4-C5	6.49	1.49	1.43
35	BB	2199	A	N9-C4	-6.49	1.33	1.37
35	BB	2897	U	N1-C6	6.49	1.43	1.38
35	BB	2583	G	N7-C5	-6.49	1.35	1.39
1	AA	1167	A	C6-N6	6.49	1.39	1.33
1	AA	1434	A	N9-C4	-6.49	1.33	1.37
35	BB	165	A	O3'-P	-6.49	1.53	1.61
35	BB	405	U	O4'-C1'	6.49	1.50	1.41
35	BB	429	A	O3'-P	-6.49	1.53	1.61
35	BB	470	A	C2-N3	6.49	1.39	1.33
35	BB	1116	G	C6-N1	6.49	1.44	1.39
35	BB	2234	G	C8-N7	6.49	1.34	1.30
35	BB	2476	A	C2'-C1'	-6.49	1.46	1.53
40	BG	94	ARG	NE-CZ	6.49	1.41	1.33
1	AA	275	G	N1-C2	6.48	1.43	1.37
1	AA	977	A	C2-N3	6.48	1.39	1.33
35	BB	307	G	C6-N1	6.48	1.44	1.39
35	BB	335	C	C4-C5	6.48	1.48	1.43
35	BB	1680	U	N1-C6	6.48	1.43	1.38
35	BB	2428	G	C4'-C3'	6.48	1.60	1.53
1	AA	1052	U	C3'-O3'	6.48	1.51	1.42
35	BB	373	U	C4'-O4'	-6.48	1.37	1.45
35	BB	956	G	C5'-C4'	6.48	1.59	1.51
35	BB	1827	U	C4-O4	6.48	1.28	1.23
1	AA	329	A	O3'-P	-6.48	1.53	1.61
1	AA	1409	C	C4'-C3'	6.48	1.60	1.53
1	AA	1442	G	N1-C2	6.48	1.43	1.37
35	BB	862	G	C8-N7	-6.48	1.27	1.30
35	BB	146	A	C3'-C2'	-6.48	1.45	1.52
35	BB	948	C	N1-C6	6.48	1.41	1.37
35	BB	1931	U	C5-C6	6.48	1.40	1.34
35	BB	2308	G	C5-C6	-6.48	1.35	1.42
1	AA	19	A	C6-N6	6.48	1.39	1.33
1	AA	1448	C	N3-C4	6.48	1.38	1.33
35	BB	780	G	O3'-P	-6.48	1.53	1.61
35	BB	1510	G	C6-N1	6.48	1.44	1.39
35	BB	1884	G	C4'-C3'	6.48	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2018	G	N1-C2	6.48	1.43	1.37
35	BB	2458	G	C6-N1	6.48	1.44	1.39
1	AA	46	G	C3'-C2'	-6.48	1.45	1.52
1	AA	996	A	N7-C5	-6.48	1.35	1.39
4	AD	46	ARG	NE-CZ	6.48	1.41	1.33
35	BB	1121	C	N3-C4	6.48	1.38	1.33
35	BB	1490	A	N9-C8	6.48	1.43	1.37
35	BB	1630	A	C6-N6	6.48	1.39	1.33
35	BB	1873	G	C5'-C4'	6.48	1.59	1.51
35	BB	2431	U	C3'-C2'	-6.48	1.45	1.52
35	BB	2795	C	N3-C4	6.48	1.38	1.33
1	AA	262	A	C2'-C1'	-6.47	1.46	1.53
1	AA	537	G	N1-C2	6.47	1.43	1.37
1	AA	1487	G	C8-N7	-6.47	1.27	1.30
35	BB	1771	C	N3-C4	6.47	1.38	1.33
1	AA	318	G	C5-C4	6.47	1.42	1.38
1	AA	1356	G	C2-N3	6.47	1.38	1.32
35	BB	331	C	C3'-C2'	-6.47	1.45	1.52
35	BB	782	A	C6-N6	6.47	1.39	1.33
35	BB	1210	G	C2-N3	6.47	1.38	1.32
35	BB	1277	G	C6-N1	-6.47	1.35	1.39
35	BB	1324	G	C2'-C1'	-6.47	1.46	1.53
35	BB	1892	C	C3'-C2'	-6.47	1.45	1.52
35	BB	2750	A	P-O5'	-6.47	1.53	1.59
1	AA	1209	C	P-O5'	6.47	1.66	1.59
1	AA	1528	U	N3-C4	6.47	1.44	1.38
35	BB	496	G	N3-C4	6.47	1.40	1.35
35	BB	678	C	N3-C4	6.47	1.38	1.33
1	AA	499	A	C3'-O3'	6.47	1.51	1.42
1	AA	1496	C	N1-C6	6.47	1.41	1.37
35	BB	990	A	N7-C5	-6.47	1.35	1.39
35	BB	1704	C	N1-C6	6.47	1.41	1.37
35	BB	2024	G	N1-C2	6.47	1.43	1.37
35	BB	2564	A	N3-C4	6.47	1.38	1.34
35	BB	2688	G	C8-N7	-6.47	1.27	1.30
1	AA	72	A	C6-N1	6.47	1.40	1.35
1	AA	1466	C	C4'-O4'	6.47	1.53	1.45
35	BB	718	A	C5-C4	6.47	1.43	1.38
35	BB	1385	A	O3'-P	-6.47	1.53	1.61
43	BJ	74	TYR	CG-CD1	6.47	1.47	1.39
35	BB	1217	U	C2-N3	6.47	1.42	1.37
35	BB	1253	A	N3-C4	6.47	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2152	G	N9-C4	6.47	1.43	1.38
35	BB	2193	G	C2'-C1'	-6.47	1.46	1.53
35	BB	2233	U	N1-C6	-6.47	1.32	1.38
1	AA	665	A	N3-C4	-6.46	1.30	1.34
1	AA	1435	G	C2-N3	6.46	1.38	1.32
35	BB	1076	C	C4-C5	6.46	1.48	1.43
35	BB	2200	C	P-O5'	-6.46	1.53	1.59
1	AA	406	G	N9-C4	6.46	1.43	1.38
1	AA	996	A	O3'-P	-6.46	1.53	1.61
1	AA	1121	U	C4'-C3'	6.46	1.60	1.53
23	AX	19	A	C6-N6	6.46	1.39	1.33
34	BA	111	U	C2'-C1'	-6.46	1.46	1.53
35	BB	109	C	C4-N4	6.46	1.39	1.33
35	BB	226	A	C6-N1	6.46	1.40	1.35
35	BB	475	C	C3'-C2'	-6.46	1.45	1.52
35	BB	795	C	O3'-P	6.46	1.69	1.61
35	BB	807	U	C2-N3	6.46	1.42	1.37
35	BB	818	G	C6-N1	6.46	1.44	1.39
35	BB	1111	A	N3-C4	6.46	1.38	1.34
35	BB	1298	C	C2'-C1'	-6.46	1.46	1.53
35	BB	1674	G	N1-C2	6.46	1.43	1.37
35	BB	2293	G	N7-C5	-6.46	1.35	1.39
2	AB	181	PRO	N-CD	-6.46	1.38	1.47
35	BB	48	G	C2-N2	6.46	1.41	1.34
35	BB	249	C	C4'-C3'	-6.46	1.46	1.53
35	BB	2298	A	C6-N1	6.46	1.40	1.35
35	BB	2869	G	C2'-C1'	-6.46	1.46	1.53
1	AA	241	G	N7-C5	-6.46	1.35	1.39
1	AA	373	A	C3'-O3'	6.46	1.51	1.42
1	AA	1151	A	C5-C4	6.46	1.43	1.38
1	AA	1511	G	N9-C4	-6.46	1.32	1.38
30	B5	74	ARG	NE-CZ	6.46	1.41	1.33
35	BB	408	G	C5-C4	6.46	1.42	1.38
35	BB	942	G	C6-N1	6.46	1.44	1.39
1	AA	700	G	C8-N7	6.46	1.34	1.30
1	AA	732	C	P-O5'	-6.46	1.53	1.59
1	AA	869	G	C5-C6	-6.46	1.35	1.42
1	AA	1481	U	C2-N3	6.46	1.42	1.37
35	BB	71	A	N1-C2	-6.46	1.28	1.34
35	BB	262	A	N9-C4	6.46	1.41	1.37
35	BB	659	G	C1'-N9	6.46	1.58	1.48
35	BB	2003	A	C6-N6	6.46	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	831	A	C6-N6	6.46	1.39	1.33
1	AA	1363	A	P-O5'	-6.46	1.53	1.59
35	BB	1853	A	N9-C8	-6.46	1.32	1.37
35	BB	2467	C	C4'-O4'	-6.46	1.37	1.45
35	BB	2672	U	C3'-C2'	-6.46	1.45	1.52
1	AA	251	G	N1-C2	6.45	1.43	1.37
1	AA	309	A	P-O5'	-6.45	1.53	1.59
1	AA	549	C	C5-C6	6.45	1.39	1.34
1	AA	648	A	C6-N6	6.45	1.39	1.33
1	AA	1022	A	C6-N6	6.45	1.39	1.33
1	AA	1397	C	C4-C5	6.45	1.48	1.43
35	BB	804	A	N9-C4	6.45	1.41	1.37
35	BB	1011	G	C5'-C4'	6.45	1.59	1.51
35	BB	1324	G	C8-N7	-6.45	1.27	1.30
35	BB	1580	A	N3-C4	-6.45	1.30	1.34
35	BB	2343	U	C4'-C3'	-6.45	1.46	1.53
35	BB	2473	U	C4'-O4'	6.45	1.53	1.45
35	BB	347	A	N1-C2	6.45	1.40	1.34
35	BB	1095	A	O4'-C1'	6.45	1.50	1.41
35	BB	1482	G	C2-N3	6.45	1.38	1.32
35	BB	1896	G	C4'-O4'	-6.45	1.37	1.45
35	BB	2180	U	C4-C5	6.45	1.49	1.43
1	AA	622	A	C4'-C3'	6.45	1.60	1.53
35	BB	587	C	C5-C6	6.45	1.39	1.34
35	BB	1158	C	P-O5'	-6.45	1.53	1.59
35	BB	1849	G	C8-N7	-6.45	1.27	1.30
35	BB	2158	A	N9-C4	6.45	1.41	1.37
35	BB	2515	C	C2'-C1'	-6.45	1.46	1.53
35	BB	2721	A	N1-C2	6.45	1.40	1.34
35	BB	2846	G	P-O5'	-6.45	1.53	1.59
1	AA	872	A	O3'-P	-6.45	1.53	1.61
1	AA	1372	U	C2'-C1'	-6.45	1.46	1.53
35	BB	808	G	N1-C2	6.45	1.43	1.37
35	BB	928	A	C2-N3	6.45	1.39	1.33
35	BB	988	A	C6-N1	6.45	1.40	1.35
35	BB	1242	U	N3-C4	6.45	1.44	1.38
35	BB	1434	A	C4'-O4'	-6.45	1.37	1.45
35	BB	1775	U	N1-C2	6.45	1.44	1.38
35	BB	2390	U	C2-N3	6.45	1.42	1.37
1	AA	1407	C	C2-N3	6.45	1.41	1.35
35	BB	847	U	C1'-N1	6.45	1.58	1.48
35	BB	2179	C	C5'-C4'	6.45	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	540	G	C2-N2	-6.45	1.28	1.34
1	AA	895	G	C3'-C2'	6.45	1.60	1.52
1	AA	1163	A	C8-N7	-6.45	1.27	1.31
1	AA	1430	A	C6-N6	6.45	1.39	1.33
1	AA	1492	A	N3-C4	6.45	1.38	1.34
14	AN	40	ARG	CZ-NH1	6.45	1.41	1.33
34	BA	52	A	C3'-C2'	6.45	1.60	1.52
35	BB	335	C	C4'-O4'	6.45	1.53	1.45
35	BB	473	G	C5'-C4'	6.45	1.59	1.51
35	BB	606	U	C2-N3	-6.45	1.33	1.37
35	BB	709	U	P-O5'	-6.45	1.53	1.59
35	BB	1751	U	C4'-C3'	6.45	1.60	1.53
35	BB	1870	C	C4'-O4'	-6.45	1.37	1.45
35	BB	2144	G	C3'-O3'	6.45	1.51	1.42
35	BB	2288	A	N9-C4	-6.45	1.33	1.37
35	BB	2767	C	N1-C2	6.45	1.46	1.40
1	AA	413	G	C8-N7	6.44	1.34	1.30
1	AA	1020	G	N9-C4	6.44	1.43	1.38
35	BB	1225	G	C3'-C2'	-6.44	1.45	1.52
35	BB	2709	G	C6-N1	6.44	1.44	1.39
1	AA	389	A	N9-C4	6.44	1.41	1.37
1	AA	429	U	C5'-C4'	6.44	1.59	1.51
9	AI	68	GLY	CA-C	-6.44	1.41	1.51
34	BA	89	U	C5'-C4'	6.44	1.59	1.51
35	BB	492	A	C2-N3	-6.44	1.27	1.33
35	BB	677	A	C5'-C4'	6.44	1.59	1.51
35	BB	895	U	C2-O2	6.44	1.28	1.22
35	BB	1082	U	C1'-N1	6.44	1.58	1.48
35	BB	1550	C	C5-C6	6.44	1.39	1.34
35	BB	2080	A	N7-C5	-6.44	1.35	1.39
35	BB	2174	C	C4'-O4'	-6.44	1.37	1.45
1	AA	163	C	N3-C4	6.44	1.38	1.33
1	AA	1487	G	C2'-C1'	-6.44	1.46	1.53
1	AA	1529	G	C2-N2	6.44	1.41	1.34
22	AV	38	U	C4'-C3'	-6.44	1.46	1.53
35	BB	825	A	C2-N3	-6.44	1.27	1.33
35	BB	1141	U	C5'-C4'	6.44	1.59	1.51
35	BB	1215	G	N9-C8	6.44	1.42	1.37
35	BB	2186	G	N9-C4	6.44	1.43	1.38
35	BB	2291	U	N3-C4	6.44	1.44	1.38
1	AA	284	C	N1-C6	-6.44	1.33	1.37
1	AA	1244	G	C2-N3	6.44	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	957	C	C5-C6	6.44	1.39	1.34
35	BB	1875	G	N9-C4	-6.44	1.32	1.38
35	BB	711	G	C5-C4	6.44	1.42	1.38
35	BB	1039	A	N9-C4	-6.44	1.33	1.37
35	BB	2397	G	N7-C5	-6.44	1.35	1.39
37	BD	44	GLY	N-CA	-6.44	1.36	1.46
1	AA	63	C	N1-C6	6.44	1.41	1.37
35	BB	1616	A	C5-C6	-6.44	1.35	1.41
35	BB	2246	G	C2-N3	6.44	1.37	1.32
35	BB	2322	A	O3'-P	-6.44	1.53	1.61
35	BB	2534	A	C6-N6	6.44	1.39	1.33
35	BB	2569	G	N3-C4	-6.44	1.30	1.35
32	B7	39	ARG	CZ-NH1	6.43	1.41	1.33
35	BB	227	A	C5-C4	-6.43	1.34	1.38
35	BB	381	G	N7-C5	6.43	1.43	1.39
35	BB	426	C	C2'-O2'	-6.43	1.33	1.41
35	BB	915	C	N3-C4	6.43	1.38	1.33
1	AA	558	G	C2-N2	6.43	1.41	1.34
1	AA	1220	G	C2'-C1'	6.43	1.60	1.53
1	AA	1466	C	C2-N3	6.43	1.40	1.35
35	BB	1161	C	C5'-C4'	6.43	1.59	1.51
35	BB	1345	C	C2-O2	6.43	1.30	1.24
35	BB	1608	A	C6-N6	6.43	1.39	1.33
35	BB	2033	A	C5'-C4'	6.43	1.59	1.51
35	BB	2155	U	N3-C4	6.43	1.44	1.38
1	AA	705	G	C8-N7	6.43	1.34	1.30
1	AA	718	A	N7-C5	-6.43	1.35	1.39
1	AA	957	U	C5-C6	6.43	1.40	1.34
35	BB	2292	U	C2-N3	6.43	1.42	1.37
35	BB	2895	G	C2-N3	6.43	1.37	1.32
1	AA	161	A	C2-N3	6.43	1.39	1.33
1	AA	611	C	C3'-O3'	6.43	1.51	1.42
1	AA	1156	G	O3'-P	-6.43	1.53	1.61
1	AA	1505	G	N3-C4	6.43	1.40	1.35
35	BB	493	G	O4'-C1'	-6.43	1.33	1.41
35	BB	1354	A	C6-N1	6.43	1.40	1.35
35	BB	1459	G	N1-C2	6.43	1.42	1.37
35	BB	1675	C	N3-C4	6.43	1.38	1.33
35	BB	2091	C	C4'-O4'	-6.43	1.37	1.45
35	BB	2259	U	C2-N3	-6.43	1.33	1.37
47	BN	4	ARG	CZ-NH1	6.43	1.41	1.33
1	AA	128	G	N9-C4	-6.43	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	892	A	C5'-C4'	-6.43	1.43	1.51
35	BB	1860	G	N7-C5	-6.43	1.35	1.39
35	BB	2517	C	C2-O2	6.43	1.30	1.24
1	AA	712	A	N7-C5	-6.43	1.35	1.39
1	AA	932	C	N3-C4	6.43	1.38	1.33
1	AA	1157	A	C6-N6	6.43	1.39	1.33
1	AA	1388	C	P-O5'	-6.43	1.53	1.59
12	AL	116	TYR	CE1-CZ	6.43	1.47	1.38
35	BB	191	A	C5'-C4'	6.43	1.59	1.51
35	BB	775	G	C6-N1	6.43	1.44	1.39
1	AA	441	A	C6-N1	6.42	1.40	1.35
1	AA	564	C	C4-N4	6.42	1.39	1.33
1	AA	613	C	N3-C4	6.42	1.38	1.33
1	AA	766	A	N1-C2	-6.42	1.28	1.34
1	AA	1018	G	C2-N3	6.42	1.37	1.32
1	AA	1055	A	N1-C2	-6.42	1.28	1.34
1	AA	1064	G	C2-N3	6.42	1.37	1.32
34	BA	54	G	C5-C4	6.42	1.42	1.38
35	BB	213	A	N7-C5	-6.42	1.35	1.39
35	BB	638	G	C5-C4	-6.42	1.33	1.38
35	BB	2632	A	C5-C4	6.42	1.43	1.38
35	BB	2800	A	C6-N6	6.42	1.39	1.33
35	BB	432	A	N3-C4	-6.42	1.30	1.34
35	BB	2156	G	C5-C4	-6.42	1.33	1.38
1	AA	100	G	C6-N1	6.42	1.44	1.39
1	AA	491	G	C5-C6	-6.42	1.35	1.42
1	AA	989	U	C2'-C1'	-6.42	1.46	1.53
22	AV	32	A	O3'-P	-6.42	1.53	1.61
35	BB	1023	U	O3'-P	-6.42	1.53	1.61
35	BB	1093	G	C2'-O2'	-6.42	1.33	1.41
35	BB	1237	A	C8-N7	-6.42	1.27	1.31
35	BB	1491	G	C2'-C1'	-6.42	1.46	1.53
35	BB	2150	C	N3-C4	6.42	1.38	1.33
35	BB	2674	G	C2-N3	-6.42	1.27	1.32
35	BB	2745	C	C5-C6	-6.42	1.29	1.34
35	BB	1596	A	N9-C8	-6.42	1.32	1.37
48	BO	30	ARG	NE-CZ	6.42	1.41	1.33
1	AA	511	C	O3'-P	-6.42	1.53	1.61
35	BB	1434	A	N3-C4	-6.42	1.30	1.34
35	BB	1510	G	C8-N7	-6.42	1.27	1.30
35	BB	1883	U	O4'-C1'	6.42	1.50	1.41
35	BB	2814	A	N7-C5	-6.42	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	76	G	N1-C2	6.42	1.42	1.37
1	AA	787	A	N7-C5	-6.42	1.35	1.39
1	AA	988	G	N9-C4	6.42	1.43	1.38
1	AA	1278	G	C5-C4	-6.42	1.33	1.38
35	BB	1420	A	O3'-P	-6.42	1.53	1.61
35	BB	1687	G	C2-N3	6.42	1.37	1.32
35	BB	2145	C	N3-C4	6.42	1.38	1.33
35	BB	2434	A	C5-C4	-6.42	1.34	1.38
1	AA	1163	A	N3-C4	-6.42	1.31	1.34
35	BB	371	A	N3-C4	6.42	1.38	1.34
35	BB	926	G	C8-N7	-6.42	1.27	1.30
35	BB	2056	G	C2-N3	6.42	1.37	1.32
1	AA	394	G	C2'-O2'	-6.41	1.33	1.41
35	BB	238	C	C4-N4	6.41	1.39	1.33
35	BB	1230	A	C5-C6	-6.41	1.35	1.41
35	BB	1377	G	C4'-C3'	6.41	1.60	1.53
35	BB	1690	A	C5-C4	6.41	1.43	1.38
35	BB	2770	G	O4'-C1'	6.41	1.50	1.41
1	AA	71	A	C3'-O3'	6.41	1.51	1.42
1	AA	320	A	N9-C4	-6.41	1.34	1.37
1	AA	694	A	N3-C4	6.41	1.38	1.34
35	BB	971	G	C2'-C1'	-6.41	1.46	1.53
35	BB	1794	A	C5'-C4'	6.41	1.59	1.51
35	BB	2259	U	O3'-P	-6.41	1.53	1.61
1	AA	513	C	N3-C4	6.41	1.38	1.33
1	AA	706	A	C2'-C1'	-6.41	1.46	1.53
1	AA	857	C	C3'-C2'	-6.41	1.45	1.52
35	BB	465	G	N1-C2	6.41	1.42	1.37
35	BB	1358	G	N3-C4	6.41	1.40	1.35
35	BB	2350	C	P-O5'	-6.41	1.53	1.59
35	BB	2869	G	N9-C4	6.41	1.43	1.38
1	AA	292	G	C5-C4	6.41	1.42	1.38
1	AA	672	U	C5'-C4'	-6.41	1.43	1.51
1	AA	854	U	N1-C6	-6.41	1.32	1.38
1	AA	942	G	N3-C4	6.41	1.40	1.35
35	BB	94	A	C2'-C1'	-6.41	1.46	1.53
35	BB	517	C	C2'-C1'	-6.41	1.46	1.53
35	BB	1331	G	C2-N3	6.41	1.37	1.32
35	BB	1581	G	C4'-O4'	-6.41	1.37	1.45
35	BB	1600	C	C5-C6	6.41	1.39	1.34
35	BB	2878	U	C5'-C4'	6.41	1.59	1.51
1	AA	581	G	N7-C5	-6.41	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	391	G	C4'-C3'	-6.41	1.46	1.53
1	AA	420	U	C5-C6	6.41	1.40	1.34
1	AA	615	G	N7-C5	-6.41	1.35	1.39
1	AA	1163	A	O3'-P	-6.41	1.53	1.61
35	BB	520	G	C5-C4	6.41	1.42	1.38
35	BB	557	C	C4-C5	6.41	1.48	1.43
35	BB	1080	A	O3'-P	-6.41	1.53	1.61
35	BB	1361	G	C3'-C2'	-6.41	1.45	1.52
35	BB	1501	G	C2'-C1'	-6.41	1.46	1.53
35	BB	2632	A	N3-C4	-6.41	1.31	1.34
1	AA	1421	G	N9-C8	6.40	1.42	1.37
35	BB	2042	A	C1'-N9	6.40	1.58	1.48
1	AA	840	C	P-O5'	-6.40	1.53	1.59
1	AA	1071	C	O3'-P	-6.40	1.53	1.61
1	AA	1136	C	C4-C5	6.40	1.48	1.43
1	AA	1189	U	N3-C4	6.40	1.44	1.38
1	AA	1258	G	C2-N3	6.40	1.37	1.32
35	BB	782	A	C6-N1	6.40	1.40	1.35
35	BB	1219	U	C2-N3	6.40	1.42	1.37
35	BB	1303	G	P-O5'	-6.40	1.53	1.59
1	AA	781	A	P-O5'	-6.40	1.53	1.59
35	BB	52	A	C2-N3	6.40	1.39	1.33
35	BB	359	G	N9-C8	-6.40	1.33	1.37
35	BB	470	A	C6-N1	6.40	1.40	1.35
35	BB	785	G	C4'-C3'	-6.40	1.46	1.53
35	BB	1211	C	N1-C6	6.40	1.41	1.37
35	BB	1676	A	N1-C2	6.40	1.40	1.34
1	AA	1151	A	N7-C5	-6.40	1.35	1.39
35	BB	136	G	C4'-O4'	6.40	1.53	1.45
35	BB	641	U	P-O5'	-6.40	1.53	1.59
35	BB	1377	G	N9-C4	6.40	1.43	1.38
35	BB	1410	G	O3'-P	6.40	1.68	1.61
35	BB	2558	C	C5'-C4'	6.40	1.59	1.51
1	AA	1499	A	N9-C4	6.40	1.41	1.37
20	AT	23	ARG	CZ-NH1	6.40	1.41	1.33
35	BB	125	A	C5-C6	-6.40	1.35	1.41
35	BB	1514	G	C8-N7	-6.40	1.27	1.30
35	BB	1684	G	C8-N7	-6.40	1.27	1.30
35	BB	2141	G	C5'-C4'	6.40	1.59	1.51
35	BB	2457	U	N1-C2	6.40	1.44	1.38
36	BC	147	PRO	N-CD	-6.40	1.38	1.47
1	AA	298	A	O3'-P	-6.39	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	420	U	O3'-P	-6.39	1.53	1.61
1	AA	606	G	C6-N1	6.39	1.44	1.39
35	BB	213	A	C3'-C2'	-6.39	1.45	1.52
35	BB	435	C	C2'-C1'	-6.39	1.46	1.53
35	BB	724	U	N3-C4	6.39	1.44	1.38
35	BB	1133	A	C6-N6	6.39	1.39	1.33
35	BB	1133	A	N9-C4	6.39	1.41	1.37
35	BB	1795	C	N3-C4	6.39	1.38	1.33
35	BB	2666	C	C1'-N1	6.39	1.58	1.48
1	AA	315	A	C2'-C1'	-6.39	1.46	1.53
1	AA	839	C	N1-C6	6.39	1.41	1.37
1	AA	840	C	C2-N3	6.39	1.40	1.35
1	AA	1288	A	C2'-C1'	-6.39	1.46	1.53
1	AA	1349	A	O3'-P	-6.39	1.53	1.61
1	AA	1473	G	C2-N3	-6.39	1.27	1.32
35	BB	102	U	C4-C5	6.39	1.49	1.43
35	BB	1206	G	N9-C8	-6.39	1.33	1.37
35	BB	1990	C	O4'-C1'	-6.39	1.33	1.41
35	BB	2345	G	C2-N3	6.39	1.37	1.32
35	BB	2848	G	C2'-C1'	-6.39	1.46	1.53
35	BB	638	G	C5-C6	-6.39	1.35	1.42
1	AA	149	A	N9-C8	-6.39	1.32	1.37
1	AA	265	G	N7-C5	6.39	1.43	1.39
1	AA	334	C	N3-C4	6.39	1.38	1.33
1	AA	390	U	C4-C5	-6.39	1.37	1.43
1	AA	415	A	N3-C4	6.39	1.38	1.34
1	AA	1160	G	N7-C5	6.39	1.43	1.39
35	BB	287	G	C2-N3	6.39	1.37	1.32
35	BB	738	G	O3'-P	-6.39	1.53	1.61
35	BB	750	A	C5'-C4'	6.39	1.59	1.51
35	BB	761	A	N7-C5	-6.39	1.35	1.39
35	BB	2805	C	P-O5'	-6.39	1.53	1.59
1	AA	211	G	C8-N7	6.39	1.34	1.30
1	AA	567	G	C2-N3	6.39	1.37	1.32
1	AA	642	A	C2-N3	6.39	1.39	1.33
1	AA	833	G	C8-N7	-6.39	1.27	1.30
35	BB	88	G	C5-C6	-6.39	1.35	1.42
35	BB	2465	C	C5'-C4'	6.39	1.59	1.51
1	AA	1016	A	C2'-C1'	-6.39	1.46	1.53
1	AA	1392	G	C5'-C4'	6.39	1.59	1.51
35	BB	264	C	C4-C5	6.39	1.48	1.43
35	BB	315	G	N7-C5	6.39	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	953	G	N9-C8	6.39	1.42	1.37
35	BB	2257	U	C2'-C1'	-6.39	1.46	1.53
35	BB	2764	A	N3-C4	-6.39	1.31	1.34
1	AA	109	A	C6-N6	6.38	1.39	1.33
1	AA	266	G	C2-N3	6.38	1.37	1.32
1	AA	1282	C	C2-O2	6.38	1.30	1.24
35	BB	248	G	C2-N2	6.38	1.41	1.34
35	BB	1131	G	O3'-P	-6.38	1.53	1.61
35	BB	2246	G	N1-C2	6.38	1.42	1.37
35	BB	2411	A	N3-C4	6.38	1.38	1.34
35	BB	1369	G	P-O5'	-6.38	1.53	1.59
35	BB	42	A	C4'-O4'	-6.38	1.37	1.45
35	BB	1226	A	C5-C4	-6.38	1.34	1.38
35	BB	1849	G	C5-C6	-6.38	1.35	1.42
35	BB	2052	A	C6-N1	6.38	1.40	1.35
35	BB	2567	G	C5-C6	-6.38	1.35	1.42
1	AA	322	C	N3-C4	6.38	1.38	1.33
35	BB	752	A	O3'-P	-6.38	1.53	1.61
35	BB	1507	C	C4-C5	6.38	1.48	1.43
35	BB	1799	G	C6-N1	6.38	1.44	1.39
35	BB	1871	A	C5-C4	6.38	1.43	1.38
35	BB	2120	G	N9-C8	-6.38	1.33	1.37
35	BB	2175	C	N1-C2	6.38	1.46	1.40
1	AA	114	U	P-O5'	6.38	1.66	1.59
1	AA	1208	C	N1-C6	6.38	1.41	1.37
34	BA	78	A	C6-N6	6.38	1.39	1.33
35	BB	1169	A	C2'-C1'	-6.38	1.46	1.53
35	BB	1536	C	O4'-C1'	6.38	1.50	1.41
35	BB	2067	G	C5-C4	6.38	1.42	1.38
50	BQ	29	ARG	CZ-NH1	6.38	1.41	1.33
1	AA	325	A	N3-C4	-6.38	1.31	1.34
1	AA	525	C	N3-C4	6.38	1.38	1.33
1	AA	1062	U	C2-N3	6.38	1.42	1.37
35	BB	1465	G	C2'-O2'	-6.38	1.33	1.41
35	BB	1813	G	C2'-C1'	-6.38	1.46	1.53
1	AA	800	G	N7-C5	-6.37	1.35	1.39
1	AA	845	A	C8-N7	-6.37	1.27	1.31
1	AA	1127	G	C5-C4	-6.37	1.33	1.38
1	AA	1319	A	N9-C4	-6.37	1.34	1.37
1	AA	1357	A	N7-C5	-6.37	1.35	1.39
1	AA	1405	G	C2'-C1'	-6.37	1.46	1.53
33	B8	24	ARG	CD-NE	6.37	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	127	A	C2-N3	6.37	1.39	1.33
35	BB	1322	A	C5-C4	6.37	1.43	1.38
35	BB	1510	G	N9-C4	-6.37	1.32	1.38
35	BB	1564	C	N1-C6	6.37	1.41	1.37
35	BB	1670	C	O4'-C1'	-6.37	1.33	1.41
35	BB	1783	A	N3-C4	-6.37	1.31	1.34
35	BB	2362	C	C4'-C3'	6.37	1.60	1.53
35	BB	2484	G	N9-C8	-6.37	1.33	1.37
1	AA	926	G	O4'-C1'	6.37	1.50	1.41
1	AA	1153	G	C8-N7	6.37	1.34	1.30
35	BB	36	G	C6-O6	-6.37	1.18	1.24
35	BB	656	G	C5-C4	-6.37	1.33	1.38
35	BB	1124	G	C6-N1	6.37	1.44	1.39
35	BB	1371	G	C6-N1	6.37	1.44	1.39
35	BB	1985	C	N3-C4	6.37	1.38	1.33
35	BB	2698	U	C2'-C1'	-6.37	1.46	1.53
35	BB	353	C	C5'-C4'	6.37	1.58	1.51
35	BB	372	G	C2'-C1'	-6.37	1.46	1.53
35	BB	2247	A	C6-N6	6.37	1.39	1.33
1	AA	155	A	C6-N6	6.37	1.39	1.33
1	AA	888	G	C4'-C3'	-6.37	1.46	1.53
35	BB	1542	U	C2-N3	6.37	1.42	1.37
35	BB	1603	A	P-O5'	-6.37	1.53	1.59
35	BB	2365	G	C4'-C3'	-6.37	1.46	1.53
35	BB	2685	G	C5-C6	-6.37	1.35	1.42
1	AA	668	G	C8-N7	6.37	1.34	1.30
1	AA	1180	A	C2'-C1'	-6.37	1.46	1.53
1	AA	954	G	N3-C4	-6.37	1.30	1.35
35	BB	603	A	N7-C5	-6.37	1.35	1.39
35	BB	1925	C	P-O5'	-6.37	1.53	1.59
35	BB	2090	A	C6-N1	6.37	1.40	1.35
35	BB	2276	G	C2-N2	6.37	1.41	1.34
35	BB	2853	C	N1-C6	-6.37	1.33	1.37
1	AA	351	G	N1-C2	6.36	1.42	1.37
1	AA	504	C	C2'-C1'	-6.36	1.46	1.53
1	AA	674	G	C3'-C2'	-6.36	1.45	1.52
1	AA	1004	A	C2'-C1'	-6.36	1.46	1.53
1	AA	1241	G	N7-C5	6.36	1.43	1.39
1	AA	1496	C	C1'-N1	6.36	1.58	1.48
11	AK	121	ARG	CZ-NH1	6.36	1.41	1.33
35	BB	77	G	N1-C2	6.36	1.42	1.37
35	BB	328	U	C4'-C3'	6.36	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	987	C	C4-N4	6.36	1.39	1.33
35	BB	2014	A	C6-N1	-6.36	1.31	1.35
35	BB	2270	A	O3'-P	-6.36	1.53	1.61
1	AA	903	G	N1-C2	6.36	1.42	1.37
6	AF	73	GLU	CD-OE1	6.36	1.32	1.25
35	BB	472	A	C2'-C1'	-6.36	1.46	1.53
35	BB	1690	A	C4'-C3'	6.36	1.60	1.53
35	BB	2180	U	C2-N3	6.36	1.42	1.37
1	AA	263	A	C6-N6	6.36	1.39	1.33
35	BB	1537	G	N1-C2	6.36	1.42	1.37
35	BB	2340	A	C6-N1	6.36	1.40	1.35
35	BB	2367	G	C8-N7	-6.36	1.27	1.30
1	AA	30	U	O4'-C1'	6.36	1.50	1.41
35	BB	1126	A	C6-N1	-6.36	1.31	1.35
35	BB	2077	A	N7-C5	-6.36	1.35	1.39
35	BB	2228	G	C2'-C1'	-6.36	1.46	1.53
35	BB	2255	G	C5-C4	6.36	1.42	1.38
35	BB	2289	G	C6-N1	6.36	1.44	1.39
35	BB	2373	G	N1-C2	6.36	1.42	1.37
1	AA	1275	A	N3-C4	-6.36	1.31	1.34
1	AA	1504	G	N1-C2	6.36	1.42	1.37
34	BA	69	G	N7-C5	6.36	1.43	1.39
35	BB	396	G	N9-C8	6.36	1.42	1.37
35	BB	1559	U	N1-C6	6.36	1.43	1.38
35	BB	2168	G	C5-C6	-6.36	1.35	1.42
35	BB	2295	C	C4'-C3'	6.36	1.60	1.53
35	BB	2408	U	P-O5'	6.36	1.66	1.59
35	BB	2503	A	N7-C5	-6.36	1.35	1.39
1	AA	1493	A	C2-N3	6.36	1.39	1.33
35	BB	44	A	C2'-C1'	-6.36	1.46	1.53
35	BB	654	A	C8-N7	-6.36	1.27	1.31
35	BB	1061	U	C4'-C3'	6.36	1.60	1.53
35	BB	1725	U	P-O5'	-6.36	1.53	1.59
1	AA	1167	A	N9-C8	6.35	1.42	1.37
35	BB	237	C	C3'-C2'	6.35	1.59	1.52
35	BB	1777	U	C2'-C1'	-6.35	1.46	1.53
35	BB	2476	A	C2-N3	6.35	1.39	1.33
35	BB	2744	G	C2-N3	6.35	1.37	1.32
35	BB	2846	G	C5'-C4'	6.35	1.58	1.51
1	AA	229	U	N1-C2	6.35	1.44	1.38
1	AA	732	C	N1-C2	6.35	1.46	1.40
35	BB	75	G	C2-N3	6.35	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	862	G	C5'-C4'	6.35	1.58	1.51
35	BB	920	A	N9-C4	6.35	1.41	1.37
35	BB	1010	A	C6-N1	6.35	1.40	1.35
35	BB	1719	G	C2-N3	6.35	1.37	1.32
1	AA	928	G	N9-C8	6.35	1.42	1.37
35	BB	589	U	C2'-C1'	-6.35	1.46	1.53
35	BB	755	U	C4-C5	-6.35	1.37	1.43
35	BB	1052	C	O4'-C1'	6.35	1.50	1.41
35	BB	1137	G	N3-C4	-6.35	1.31	1.35
35	BB	1539	U	N1-C2	6.35	1.44	1.38
35	BB	1708	C	C4-N4	6.35	1.39	1.33
35	BB	1817	G	C5'-C4'	6.35	1.58	1.51
35	BB	2025	C	C4-N4	6.35	1.39	1.33
35	BB	2466	C	P-O5'	-6.35	1.53	1.59
1	AA	75	G	C6-N1	6.35	1.44	1.39
1	AA	297	G	C3'-O3'	6.35	1.51	1.42
1	AA	515	G	O4'-C1'	-6.35	1.33	1.41
1	AA	1087	G	C2-N3	6.35	1.37	1.32
35	BB	5	A	C6-N6	6.35	1.39	1.33
35	BB	1188	U	C2'-C1'	-6.35	1.46	1.53
35	BB	2311	A	C5-C4	6.35	1.43	1.38
35	BB	2442	C	C5-C6	6.35	1.39	1.34
35	BB	2694	G	N1-C2	6.35	1.42	1.37
35	BB	2735	G	N7-C5	-6.35	1.35	1.39
48	BO	7	ARG	NE-CZ	6.35	1.41	1.33
35	BB	732	C	N1-C6	6.35	1.41	1.37
35	BB	2252	G	N7-C5	-6.35	1.35	1.39
26	B1	12	GLU	CB-CG	6.34	1.64	1.52
35	BB	30	G	N7-C5	-6.34	1.35	1.39
35	BB	67	U	N1-C6	6.34	1.43	1.38
35	BB	192	C	N3-C4	6.34	1.38	1.33
35	BB	1039	A	N7-C5	-6.34	1.35	1.39
35	BB	2253	G	C5-C6	-6.34	1.36	1.42
35	BB	2529	G	C6-N1	6.34	1.44	1.39
35	BB	2736	A	C6-N6	6.34	1.39	1.33
1	AA	1507	A	C5-C4	6.34	1.43	1.38
22	AV	76	A	C6-N1	6.34	1.40	1.35
35	BB	684	G	C6-N1	6.34	1.44	1.39
35	BB	1071	G	C4'-O4'	-6.34	1.37	1.45
35	BB	2806	C	C2'-C1'	-6.34	1.46	1.53
1	AA	617	G	C3'-C2'	-6.34	1.45	1.52
1	AA	781	A	C6-N6	6.34	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	975	A	C2-N3	-6.34	1.27	1.33
1	AA	1463	U	P-O5'	-6.34	1.53	1.59
35	BB	350	G	C5-C4	-6.34	1.33	1.38
35	BB	445	C	C5-C6	-6.34	1.29	1.34
35	BB	754	U	P-O5'	-6.34	1.53	1.59
35	BB	1407	G	N9-C8	6.34	1.42	1.37
35	BB	2507	C	N3-C4	6.34	1.38	1.33
36	BC	214	GLY	CA-C	-6.34	1.41	1.51
1	AA	232	G	C8-N7	6.34	1.34	1.30
1	AA	810	C	P-O5'	-6.34	1.53	1.59
1	AA	825	A	O5'-C5'	6.34	1.54	1.44
1	AA	1097	C	C4'-C3'	-6.34	1.46	1.53
1	AA	1333	A	C6-N6	6.34	1.39	1.33
1	AA	1351	U	N3-C4	6.34	1.44	1.38
35	BB	1030	C	P-O5'	-6.34	1.53	1.59
35	BB	1535	A	C5'-C4'	6.34	1.58	1.51
35	BB	2210	U	C4'-C3'	6.34	1.60	1.53
35	BB	2358	A	C4'-C3'	6.34	1.60	1.53
1	AA	1416	G	N1-C2	6.34	1.42	1.37
1	AA	151	A	N9-C4	-6.34	1.34	1.37
1	AA	619	U	O3'-P	-6.34	1.53	1.61
34	BA	58	A	N1-C2	-6.34	1.28	1.34
35	BB	135	U	C4'-C3'	6.34	1.60	1.53
35	BB	405	U	C2-N3	6.34	1.42	1.37
35	BB	1817	G	C2'-C1'	-6.34	1.46	1.53
35	BB	2145	C	C5'-C4'	6.34	1.58	1.51
35	BB	2716	C	C3'-O3'	6.34	1.51	1.42
35	BB	2747	G	N9-C8	6.34	1.42	1.37
35	BB	1633	G	C8-N7	-6.33	1.27	1.30
35	BB	2468	A	N3-C4	6.33	1.38	1.34
1	AA	1043	G	C4'-O4'	6.33	1.53	1.45
1	AA	1106	G	C2'-C1'	-6.33	1.46	1.53
1	AA	1332	A	C5-C6	6.33	1.46	1.41
1	AA	1337	G	N9-C4	-6.33	1.32	1.38
35	BB	389	G	C6-N1	6.33	1.44	1.39
35	BB	2010	G	N7-C5	-6.33	1.35	1.39
35	BB	2439	A	N1-C2	6.33	1.40	1.34
35	BB	2725	A	N9-C4	-6.33	1.34	1.37
1	AA	824	G	C6-N1	6.33	1.44	1.39
35	BB	835	C	C5'-C4'	6.33	1.58	1.51
35	BB	1044	C	C4-N4	6.33	1.39	1.33
35	BB	1172	C	C4-N4	6.33	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1244	A	N9-C8	6.33	1.42	1.37
35	BB	1468	U	C2-N3	6.33	1.42	1.37
35	BB	2465	C	O3'-P	-6.33	1.53	1.61
34	BA	40	U	C5'-C4'	6.33	1.58	1.51
35	BB	684	G	N1-C2	6.33	1.42	1.37
35	BB	1730	C	N3-C4	6.33	1.38	1.33
35	BB	2066	C	P-O5'	-6.33	1.53	1.59
35	BB	2615	U	C4-O4	-6.33	1.18	1.23
1	AA	94	G	C2-N2	6.33	1.40	1.34
1	AA	663	A	C4'-O4'	6.33	1.53	1.45
1	AA	668	G	N7-C5	-6.33	1.35	1.39
1	AA	892	A	C5-C6	6.33	1.46	1.41
1	AA	939	G	C6-N1	6.33	1.44	1.39
14	AN	89	ARG	CZ-NH2	6.33	1.41	1.33
35	BB	451	U	C2-N3	6.33	1.42	1.37
35	BB	702	U	C2-N3	6.33	1.42	1.37
35	BB	1813	G	C5'-C4'	6.33	1.58	1.51
35	BB	1901	A	C8-N7	-6.33	1.27	1.31
35	BB	2321	U	C5'-C4'	6.33	1.58	1.51
35	BB	2475	C	C4-N4	6.33	1.39	1.33
35	BB	2576	G	C8-N7	-6.33	1.27	1.30
45	BL	130	GLY	CA-C	-6.33	1.41	1.51
1	AA	814	A	O3'-P	-6.33	1.53	1.61
35	BB	183	C	N1-C6	-6.33	1.33	1.37
35	BB	848	C	N3-C4	6.33	1.38	1.33
35	BB	1747	U	C2-N3	6.33	1.42	1.37
1	AA	1508	A	N7-C5	-6.33	1.35	1.39
9	AI	25	GLY	CA-C	-6.33	1.41	1.51
35	BB	73	A	C4'-O4'	-6.33	1.37	1.45
35	BB	91	A	N9-C4	-6.33	1.34	1.37
35	BB	468	G	C2'-C1'	-6.33	1.46	1.53
35	BB	789	A	C4'-O4'	6.33	1.53	1.45
35	BB	1154	G	C3'-C2'	-6.33	1.45	1.52
35	BB	2092	U	O4'-C1'	6.33	1.49	1.41
35	BB	2874	C	C4-N4	6.33	1.39	1.33
1	AA	859	G	C1'-N9	6.32	1.58	1.48
1	AA	934	C	N1-C6	6.32	1.41	1.37
1	AA	1144	G	O4'-C1'	6.32	1.49	1.41
19	AS	33	TRP	CD2-CE2	6.32	1.49	1.41
35	BB	704	G	C6-N1	6.32	1.44	1.39
35	BB	1531	C	C2-O2	6.32	1.30	1.24
35	BB	2386	A	C5-C6	-6.32	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2436	G	C3'-C2'	6.32	1.59	1.52
35	BB	2469	A	O4'-C1'	-6.32	1.33	1.41
35	BB	2873	A	C6-N6	6.32	1.39	1.33
7	AG	49	LEU	N-CA	-6.32	1.33	1.46
35	BB	831	G	N7-C5	-6.32	1.35	1.39
35	BB	1195	G	N7-C5	-6.32	1.35	1.39
1	AA	183	C	C4'-C3'	6.32	1.60	1.53
35	BB	651	G	C3'-C2'	-6.32	1.45	1.52
35	BB	832	U	N3-C4	6.32	1.44	1.38
35	BB	973	A	P-O5'	-6.32	1.53	1.59
35	BB	1238	G	N1-C2	6.32	1.42	1.37
35	BB	1637	A	N7-C5	-6.32	1.35	1.39
35	BB	1669	A	C1'-N9	6.32	1.58	1.48
35	BB	2336	A	P-O5'	-6.32	1.53	1.59
35	BB	2410	G	C8-N7	-6.32	1.27	1.30
1	AA	95	C	C5'-C4'	6.32	1.58	1.51
35	BB	573	U	P-O5'	-6.32	1.53	1.59
35	BB	658	U	C4-O4	-6.32	1.18	1.23
35	BB	932	U	C4'-C3'	-6.32	1.46	1.53
1	AA	656	G	C5'-C4'	6.32	1.58	1.51
34	BA	51	G	O3'-P	-6.32	1.53	1.61
35	BB	273	G	C2-N2	6.32	1.40	1.34
35	BB	1424	G	P-O5'	-6.32	1.53	1.59
35	BB	1596	A	C4'-O4'	-6.32	1.37	1.45
35	BB	1697	G	C2-N2	6.32	1.40	1.34
35	BB	1904	G	C4'-C3'	6.32	1.60	1.53
35	BB	2302	U	C2'-C1'	-6.32	1.46	1.53
35	BB	2772	C	C4'-C3'	-6.32	1.46	1.53
35	BB	143	C	C4'-C3'	-6.32	1.46	1.53
35	BB	1377	G	O3'-P	-6.32	1.53	1.61
35	BB	1454	C	C3'-C2'	6.32	1.59	1.52
35	BB	1846	G	C2-N2	6.32	1.40	1.34
35	BB	1866	A	C4'-C3'	-6.32	1.46	1.53
35	BB	2195	U	C5'-C4'	6.32	1.58	1.51
35	BB	2481	G	C3'-O3'	-6.32	1.33	1.42
35	BB	2595	G	C5'-C4'	6.32	1.58	1.51
35	BB	360	U	C2'-O2'	6.31	1.49	1.41
35	BB	1086	A	N9-C8	-6.31	1.32	1.37
35	BB	1891	G	N1-C2	6.31	1.42	1.37
1	AA	445	G	N7-C5	6.31	1.43	1.39
1	AA	773	G	N9-C4	6.31	1.43	1.38
1	AA	1454	G	N7-C5	-6.31	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	278	A	N3-C4	6.31	1.38	1.34
35	BB	382	A	C5-C4	6.31	1.43	1.38
35	BB	1267	U	N1-C2	6.31	1.44	1.38
35	BB	1350	C	N3-C4	6.31	1.38	1.33
35	BB	2025	C	C2-O2	6.31	1.30	1.24
35	BB	2096	C	C5-C6	-6.31	1.29	1.34
35	BB	2260	C	N1-C6	6.31	1.41	1.37
35	BB	2711	A	C6-N6	6.31	1.39	1.33
48	BO	95	SER	CA-CB	6.31	1.62	1.52
1	AA	954	G	N9-C8	6.31	1.42	1.37
35	BB	212	G	N1-C2	6.31	1.42	1.37
35	BB	784	G	N9-C4	6.31	1.43	1.38
35	BB	2540	C	N3-C4	6.31	1.38	1.33
23	AX	16	C	C5'-C4'	6.31	1.58	1.51
35	BB	431	U	C4-C5	6.31	1.49	1.43
35	BB	701	G	C5-C4	-6.31	1.33	1.38
35	BB	829	A	N9-C4	6.31	1.41	1.37
35	BB	1707	G	C8-N7	6.31	1.34	1.30
35	BB	1840	G	C2-N3	6.31	1.37	1.32
35	BB	2841	C	C2-N3	-6.31	1.30	1.35
1	AA	316	C	C4-N4	6.31	1.39	1.33
1	AA	1334	G	C4'-C3'	6.31	1.60	1.53
35	BB	727	A	C2-N3	6.31	1.39	1.33
35	BB	1194	A	C6-N1	6.31	1.40	1.35
1	AA	663	A	C5-C4	6.31	1.43	1.38
1	AA	684	U	C5-C6	6.31	1.39	1.34
35	BB	9	G	N1-C2	6.31	1.42	1.37
35	BB	682	G	C6-N1	6.31	1.44	1.39
35	BB	757	G	C5'-C4'	6.31	1.58	1.51
35	BB	833	A	C2-N3	6.31	1.39	1.33
1	AA	310	G	N3-C4	6.30	1.39	1.35
1	AA	367	U	O3'-P	-6.30	1.53	1.61
1	AA	591	U	N3-C4	6.30	1.44	1.38
35	BB	346	A	C3'-O3'	6.30	1.50	1.42
35	BB	2732	G	O4'-C1'	-6.30	1.33	1.41
35	BB	2856	A	C2'-C1'	-6.30	1.46	1.53
1	AA	215	C	N3-C4	6.30	1.38	1.33
1	AA	341	C	O4'-C1'	6.30	1.49	1.41
1	AA	861	G	C2-N3	6.30	1.37	1.32
1	AA	1397	C	C4'-C3'	6.30	1.60	1.53
34	BA	29	A	C6-N1	6.30	1.40	1.35
35	BB	772	C	N3-C4	6.30	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	388	G	C3'-C2'	-6.30	1.45	1.52
1	AA	395	C	C4'-C3'	6.30	1.60	1.53
1	AA	671	G	C6-O6	-6.30	1.18	1.24
1	AA	878	A	N9-C4	6.30	1.41	1.37
1	AA	1108	G	N1-C2	6.30	1.42	1.37
1	AA	1288	A	C8-N7	-6.30	1.27	1.31
35	BB	577	G	C2'-C1'	-6.30	1.46	1.53
35	BB	1076	C	C4'-O4'	6.30	1.53	1.45
35	BB	1506	U	C5-C6	6.30	1.39	1.34
35	BB	1850	G	N1-C2	6.30	1.42	1.37
35	BB	2886	A	C4'-C3'	6.30	1.60	1.53
1	AA	1385	G	C5-C4	6.30	1.42	1.38
35	BB	491	G	N1-C2	6.30	1.42	1.37
35	BB	576	U	C2-N3	6.30	1.42	1.37
35	BB	1753	G	C5-C4	-6.30	1.33	1.38
35	BB	1861	G	N3-C4	-6.30	1.31	1.35
35	BB	2524	G	C5-C6	-6.30	1.36	1.42
35	BB	2602	A	N9-C4	-6.30	1.34	1.37
35	BB	2617	U	C1'-N1	6.30	1.58	1.48
1	AA	36	C	C4'-C3'	6.30	1.60	1.53
1	AA	357	G	N9-C4	-6.30	1.32	1.38
1	AA	939	G	O3'-P	-6.30	1.53	1.61
22	AV	2	G	N9-C4	6.30	1.43	1.38
35	BB	1471	G	N9-C8	-6.30	1.33	1.37
1	AA	284	C	C4-N4	6.30	1.39	1.33
1	AA	378	G	P-O5'	-6.30	1.53	1.59
1	AA	550	G	C2-N3	6.30	1.37	1.32
1	AA	1166	G	C2-N3	6.30	1.37	1.32
1	AA	1448	C	C3'-C2'	6.30	1.59	1.52
3	AC	167	TYR	CE1-CZ	6.30	1.46	1.38
34	BA	11	C	C2-N3	-6.30	1.30	1.35
35	BB	477	A	C2-N3	6.30	1.39	1.33
35	BB	907	G	C8-N7	6.30	1.34	1.30
35	BB	1736	U	N3-C4	6.30	1.44	1.38
35	BB	1757	A	N3-C4	-6.30	1.31	1.34
35	BB	1960	A	C3'-O3'	6.30	1.50	1.42
1	AA	60	A	C2-N3	6.29	1.39	1.33
1	AA	1052	U	C2'-C1'	-6.29	1.46	1.53
1	AA	1254	A	O4'-C1'	-6.29	1.33	1.41
35	BB	1269	A	C6-N6	6.29	1.39	1.33
35	BB	1276	A	N9-C4	-6.29	1.34	1.37
35	BB	2319	G	N9-C4	6.29	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	192	A	C2'-C1'	-6.29	1.46	1.53
1	AA	270	A	C2'-C1'	-6.29	1.46	1.53
1	AA	862	C	C4'-C3'	6.29	1.60	1.53
35	BB	316	C	N3-C4	6.29	1.38	1.33
35	BB	945	A	C5-C6	-6.29	1.35	1.41
35	BB	2623	G	P-O5'	-6.29	1.53	1.59
45	BL	47	ARG	CD-NE	6.29	1.57	1.46
1	AA	156	C	C4-N4	6.29	1.39	1.33
1	AA	329	A	C6-N1	6.29	1.40	1.35
35	BB	81	G	C5-C4	6.29	1.42	1.38
35	BB	402	A	C6-N6	6.29	1.39	1.33
35	BB	678	C	N1-C6	-6.29	1.33	1.37
35	BB	712	G	C4'-O4'	6.29	1.53	1.45
35	BB	902	C	N3-C4	6.29	1.38	1.33
35	BB	1266	G	N9-C4	6.29	1.43	1.38
35	BB	2165	C	C4-N4	6.29	1.39	1.33
35	BB	2222	C	P-O5'	-6.29	1.53	1.59
35	BB	2296	U	C5'-C4'	6.29	1.58	1.51
35	BB	2489	U	N1-C2	6.29	1.44	1.38
35	BB	2729	G	C6-N1	6.29	1.44	1.39
1	AA	451	A	C6-N1	6.29	1.40	1.35
1	AA	503	C	C5'-C4'	6.29	1.58	1.51
1	AA	766	A	P-O5'	-6.29	1.53	1.59
1	AA	331	G	O4'-C1'	6.29	1.49	1.41
1	AA	471	U	C2'-C1'	-6.29	1.46	1.53
1	AA	1390	U	C4-C5	6.29	1.49	1.43
35	BB	1024	G	C2-N3	6.29	1.37	1.32
35	BB	1960	A	C2'-C1'	-6.29	1.46	1.53
35	BB	2378	A	C6-N1	6.29	1.40	1.35
35	BB	2527	C	N3-C4	6.29	1.38	1.33
34	BA	109	A	C8-N7	-6.29	1.27	1.31
35	BB	1966	A	N3-C4	6.29	1.38	1.34
35	BB	2033	A	C5-C4	6.29	1.43	1.38
1	AA	28	A	N7-C5	-6.29	1.35	1.39
1	AA	138	G	N7-C5	-6.29	1.35	1.39
1	AA	157	U	C3'-C2'	-6.29	1.45	1.52
1	AA	302	G	N3-C4	-6.29	1.31	1.35
1	AA	775	G	N7-C5	-6.29	1.35	1.39
1	AA	889	A	C5-C4	6.29	1.43	1.38
1	AA	1229	A	C6-N6	6.29	1.39	1.33
34	BA	99	A	N3-C4	-6.29	1.31	1.34
35	BB	1757	A	C6-N6	6.29	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1938	A	N9-C8	6.29	1.42	1.37
35	BB	2140	G	C5'-C4'	6.29	1.58	1.51
1	AA	519	C	N3-C4	6.28	1.38	1.33
1	AA	1220	G	N3-C4	-6.28	1.31	1.35
34	BA	100	G	C2'-C1'	-6.28	1.46	1.53
35	BB	158	U	C5'-C4'	-6.28	1.43	1.51
35	BB	1106	G	C2-N3	6.28	1.37	1.32
35	BB	2225	A	C6-N6	6.28	1.39	1.33
35	BB	2331	G	O3'-P	-6.28	1.53	1.61
35	BB	625	G	O3'-P	-6.28	1.53	1.61
35	BB	1195	G	O3'-P	-6.28	1.53	1.61
1	AA	1516	G	C2-N3	6.28	1.37	1.32
22	AV	1	C	C2-O2	6.28	1.30	1.24
22	AV	32	A	N9-C4	6.28	1.41	1.37
34	BA	70	C	C2-N3	6.28	1.40	1.35
35	BB	110	G	C8-N7	6.28	1.34	1.30
35	BB	1241	A	C4'-O4'	-6.28	1.37	1.45
35	BB	2260	C	N3-C4	6.28	1.38	1.33
35	BB	2344	U	C4-C5	6.28	1.49	1.43
35	BB	2885	G	C2-N3	6.28	1.37	1.32
36	BC	202	ARG	CD-NE	6.28	1.57	1.46
1	AA	202	G	C4'-O4'	-6.28	1.37	1.45
1	AA	491	G	N1-C2	6.28	1.42	1.37
1	AA	1416	G	N9-C4	-6.28	1.32	1.38
35	BB	194	G	C3'-C2'	6.28	1.59	1.52
35	BB	220	G	N9-C4	-6.28	1.32	1.38
35	BB	426	C	C2-O2	6.28	1.30	1.24
35	BB	2341	G	C2'-C1'	-6.28	1.46	1.53
1	AA	337	G	N9-C4	-6.28	1.32	1.38
1	AA	496	A	C3'-O3'	6.28	1.50	1.42
1	AA	1150	A	C6-N6	6.28	1.39	1.33
22	AV	34	G	C3'-C2'	-6.28	1.45	1.52
22	AV	76	A	C8-N7	-6.28	1.27	1.31
35	BB	1400	U	C4-C5	6.28	1.49	1.43
35	BB	1584	U	C1'-N1	6.28	1.58	1.48
35	BB	1621	U	O3'-P	-6.28	1.53	1.61
35	BB	2070	A	P-O5'	-6.28	1.53	1.59
48	BO	111	ARG	NE-CZ	6.28	1.41	1.33
1	AA	931	C	C4'-C3'	-6.28	1.46	1.53
1	AA	990	C	C2'-O2'	-6.28	1.33	1.41
1	AA	1487	G	N7-C5	-6.28	1.35	1.39
1	AA	1510	C	C4-C5	6.28	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	137	U	C2'-C1'	-6.28	1.46	1.53
35	BB	1237	A	N3-C4	6.28	1.38	1.34
1	AA	362	G	N7-C5	-6.27	1.35	1.39
35	BB	354	A	C4'-O4'	6.27	1.53	1.45
35	BB	2850	A	C5-C4	-6.27	1.34	1.38
1	AA	900	A	C8-N7	-6.27	1.27	1.31
35	BB	61	C	C4-N4	6.27	1.39	1.33
35	BB	227	A	C5'-C4'	6.27	1.58	1.51
35	BB	809	G	C8-N7	-6.27	1.27	1.30
35	BB	1033	U	C2-N3	6.27	1.42	1.37
35	BB	2777	G	O3'-P	-6.27	1.53	1.61
35	BB	2844	G	N1-C2	6.27	1.42	1.37
43	BJ	69	ARG	NE-CZ	6.27	1.41	1.33
35	BB	176	A	N7-C5	-6.27	1.35	1.39
35	BB	665	U	C5'-C4'	6.27	1.58	1.51
35	BB	1194	A	C8-N7	-6.27	1.27	1.31
35	BB	1472	C	O3'-P	-6.27	1.53	1.61
35	BB	1654	A	N7-C5	-6.27	1.35	1.39
35	BB	2586	U	C2-N3	6.27	1.42	1.37
35	BB	2718	G	N3-C4	-6.27	1.31	1.35
1	AA	703	G	C5-C4	6.27	1.42	1.38
35	BB	299	A	N9-C8	-6.27	1.32	1.37
35	BB	482	A	C8-N7	-6.27	1.27	1.31
35	BB	799	G	N9-C8	6.27	1.42	1.37
35	BB	1243	C	C5-C6	-6.27	1.29	1.34
35	BB	1537	G	O3'-P	-6.27	1.53	1.61
35	BB	2069	G	O3'-P	-6.27	1.53	1.61
35	BB	2286	G	P-O5'	-6.27	1.53	1.59
35	BB	2543	G	N9-C8	6.27	1.42	1.37
35	BB	2817	U	C4-C5	6.27	1.49	1.43
1	AA	635	A	C6-N6	6.27	1.39	1.33
1	AA	1016	A	C6-N1	6.27	1.40	1.35
1	AA	1309	G	N9-C8	6.27	1.42	1.37
1	AA	1386	G	C6-O6	-6.27	1.18	1.24
35	BB	225	C	O3'-P	-6.27	1.53	1.61
35	BB	2216	G	C2-N3	6.27	1.37	1.32
1	AA	303	A	C5-C4	-6.27	1.34	1.38
1	AA	864	A	C2-N3	6.27	1.39	1.33
1	AA	1478	U	C2-N3	6.27	1.42	1.37
35	BB	2150	C	O3'-P	-6.27	1.53	1.61
35	BB	2364	C	O3'-P	-6.27	1.53	1.61
1	AA	416	G	N1-C2	6.26	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	AT	24	ARG	NE-CZ	6.26	1.41	1.33
35	BB	145	C	O3'-P	6.26	1.68	1.61
35	BB	177	G	C2'-C1'	-6.26	1.46	1.53
35	BB	959	A	C4'-C3'	-6.26	1.46	1.53
35	BB	1588	G	C8-N7	6.26	1.34	1.30
35	BB	925	A	C5-C6	-6.26	1.35	1.41
35	BB	1862	G	P-O5'	-6.26	1.53	1.59
35	BB	2055	C	C2-N3	6.26	1.40	1.35
35	BB	2217	G	C2-N2	-6.26	1.28	1.34
35	BB	2422	C	N3-C4	6.26	1.38	1.33
35	BB	2441	U	C2-O2	6.26	1.27	1.22
1	AA	88	U	C1'-N1	6.26	1.58	1.48
35	BB	141	G	C4'-C3'	6.26	1.60	1.53
35	BB	2532	G	N7-C5	-6.26	1.35	1.39
35	BB	2694	G	C2'-C1'	-6.26	1.46	1.53
1	AA	116	A	N7-C5	6.26	1.43	1.39
1	AA	221	C	C5'-C4'	6.26	1.58	1.51
1	AA	1339	A	N9-C8	-6.26	1.32	1.37
1	AA	1375	A	C6-N6	6.26	1.39	1.33
28	B3	16	ARG	NE-CZ	6.26	1.41	1.33
35	BB	626	A	P-O5'	-6.26	1.53	1.59
35	BB	839	U	N1-C2	-6.26	1.32	1.38
35	BB	1588	G	N7-C5	-6.26	1.35	1.39
35	BB	1668	A	O4'-C1'	-6.26	1.33	1.41
35	BB	2056	G	N9-C8	-6.26	1.33	1.37
1	AA	106	C	O3'-P	-6.26	1.53	1.61
35	BB	1784	A	C6-N6	6.26	1.39	1.33
35	BB	1221	C	C5-C6	6.26	1.39	1.34
35	BB	1753	G	C3'-O3'	6.26	1.50	1.42
35	BB	2587	A	C4'-C3'	-6.26	1.46	1.53
35	BB	1167	C	C4-N4	6.25	1.39	1.33
35	BB	2590	A	C8-N7	-6.25	1.27	1.31
1	AA	593	U	C5'-C4'	6.25	1.58	1.51
1	AA	1342	C	C2'-C1'	-6.25	1.46	1.53
1	AA	1473	G	N3-C4	-6.25	1.31	1.35
35	BB	456	C	N3-C4	6.25	1.38	1.33
35	BB	830	G	C2-N3	6.25	1.37	1.32
35	BB	1288	G	C8-N7	6.25	1.34	1.30
35	BB	1466	U	C2-N3	6.25	1.42	1.37
35	BB	1898	U	O3'-P	-6.25	1.53	1.61
35	BB	2457	U	C2'-C1'	6.25	1.60	1.53
1	AA	241	G	N9-C8	6.25	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	590	U	P-O5'	-6.25	1.53	1.59
1	AA	806	C	C2'-C1'	-6.25	1.46	1.53
1	AA	898	G	C2'-C1'	-6.25	1.46	1.53
1	AA	1480	A	N9-C8	-6.25	1.32	1.37
35	BB	723	C	N3-C4	6.25	1.38	1.33
35	BB	1470	A	C6-N6	6.25	1.39	1.33
35	BB	1913	A	C5-C4	6.25	1.43	1.38
35	BB	2307	G	C2'-C1'	-6.25	1.46	1.53
35	BB	2674	G	C8-N7	6.25	1.34	1.30
53	BT	3	ARG	NE-CZ	6.25	1.41	1.33
1	AA	1208	C	C3'-O3'	6.25	1.50	1.42
35	BB	664	G	C2-N2	6.25	1.40	1.34
1	AA	537	G	C4'-C3'	-6.25	1.46	1.53
1	AA	1133	G	N9-C8	6.25	1.42	1.37
35	BB	570	G	C4'-O4'	6.25	1.53	1.45
35	BB	1280	G	C2-N3	-6.25	1.27	1.32
35	BB	1792	G	C2'-C1'	-6.25	1.46	1.53
35	BB	1881	C	C4'-O4'	-6.25	1.37	1.45
35	BB	1899	A	C5'-C4'	6.25	1.58	1.51
35	BB	2171	A	N9-C8	-6.25	1.32	1.37
35	BB	2748	A	C6-N1	6.25	1.40	1.35
1	AA	326	G	C2-N2	6.25	1.40	1.34
1	AA	691	G	C8-N7	-6.25	1.27	1.30
1	AA	1134	G	N1-C2	6.25	1.42	1.37
35	BB	778	G	N9-C4	6.25	1.43	1.38
34	BA	108	A	C5-C4	6.25	1.43	1.38
35	BB	407	G	C4'-C3'	6.25	1.60	1.53
1	AA	885	G	N7-C5	-6.24	1.35	1.39
35	BB	1572	A	N1-C2	6.24	1.40	1.34
35	BB	1634	A	P-O5'	6.24	1.66	1.59
35	BB	1964	G	C5-C4	6.24	1.42	1.38
35	BB	2284	A	N1-C2	6.24	1.40	1.34
35	BB	2511	U	C4-C5	-6.24	1.38	1.43
35	BB	2614	A	C4'-O4'	6.24	1.53	1.45
35	BB	390	U	C3'-C2'	-6.24	1.45	1.52
35	BB	715	A	N3-C4	-6.24	1.31	1.34
1	AA	38	G	N1-C2	6.24	1.42	1.37
1	AA	338	A	N3-C4	-6.24	1.31	1.34
1	AA	1080	A	C8-N7	6.24	1.35	1.31
1	AA	1437	A	C5-C6	-6.24	1.35	1.41
1	AA	1470	U	O3'-P	-6.24	1.53	1.61
1	AA	1480	A	C6-N6	6.24	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1613	G	N1-C2	6.24	1.42	1.37
35	BB	2027	G	N9-C8	-6.24	1.33	1.37
34	BA	60	C	C4'-C3'	-6.24	1.46	1.53
35	BB	299	A	C4'-C3'	-6.24	1.46	1.53
35	BB	844	A	C2'-C1'	-6.24	1.46	1.53
35	BB	1901	A	C5'-C4'	-6.24	1.43	1.51
35	BB	2018	G	C8-N7	-6.24	1.27	1.30
35	BB	2249	U	C2-N3	6.24	1.42	1.37
1	AA	1043	G	N1-C2	6.24	1.42	1.37
6	AF	86	ARG	CD-NE	6.24	1.57	1.46
35	BB	110	G	C6-N1	-6.24	1.35	1.39
35	BB	209	C	C4-C5	-6.24	1.38	1.43
35	BB	2394	C	C4'-C3'	6.24	1.60	1.53
1	AA	1357	A	C4'-O4'	-6.24	1.37	1.45
34	BA	57	A	N9-C8	-6.24	1.32	1.37
35	BB	390	U	N1-C6	-6.24	1.32	1.38
35	BB	673	C	N3-C4	6.24	1.38	1.33
35	BB	1067	A	C5-C4	6.24	1.43	1.38
35	BB	1645	G	C5-C4	-6.24	1.33	1.38
35	BB	2148	G	C5-C4	-6.24	1.33	1.38
35	BB	2444	G	P-O5'	-6.24	1.53	1.59
1	AA	344	A	P-O5'	-6.23	1.53	1.59
1	AA	487	A	N9-C8	-6.23	1.32	1.37
35	BB	106	C	P-O5'	-6.23	1.53	1.59
35	BB	227	A	P-O5'	-6.23	1.53	1.59
35	BB	230	G	N9-C8	6.23	1.42	1.37
35	BB	1987	A	N3-C4	-6.23	1.31	1.34
1	AA	958	A	N7-C5	-6.23	1.35	1.39
1	AA	1205	U	C5-C6	6.23	1.39	1.34
1	AA	1428	A	C5-C6	-6.23	1.35	1.41
35	BB	253	C	P-O5'	-6.23	1.53	1.59
35	BB	672	C	P-O5'	-6.23	1.53	1.59
35	BB	926	G	P-O5'	-6.23	1.53	1.59
35	BB	1731	G	C2-N3	6.23	1.37	1.32
35	BB	1825	U	P-O5'	6.23	1.66	1.59
1	AA	650	G	C5-C4	6.23	1.42	1.38
1	AA	1442	G	C8-N7	6.23	1.34	1.30
1	AA	1525	G	N7-C5	6.23	1.43	1.39
25	B0	10	ARG	NE-CZ	6.23	1.41	1.33
35	BB	1123	C	N3-C4	6.23	1.38	1.33
35	BB	2015	A	N9-C8	6.23	1.42	1.37
35	BB	2400	G	C8-N7	-6.23	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2808	G	C5-C4	6.23	1.42	1.38
1	AA	84	U	N1-C2	6.23	1.44	1.38
1	AA	540	G	O3'-P	-6.23	1.53	1.61
1	AA	1025	U	C3'-C2'	6.23	1.59	1.52
1	AA	1290	G	C2-N3	6.23	1.37	1.32
1	AA	1511	G	N1-C2	6.23	1.42	1.37
35	BB	254	G	C5-C6	-6.23	1.36	1.42
35	BB	1450	G	C2-N2	6.23	1.40	1.34
35	BB	1729	U	C2-N3	6.23	1.42	1.37
35	BB	1896	G	N1-C2	6.23	1.42	1.37
35	BB	1982	U	O4'-C1'	6.23	1.49	1.41
35	BB	2153	C	C2'-C1'	-6.23	1.46	1.53
1	AA	270	A	N3-C4	-6.23	1.31	1.34
1	AA	923	A	C6-N6	6.23	1.39	1.33
35	BB	677	A	N7-C5	-6.23	1.35	1.39
35	BB	960	A	C8-N7	-6.23	1.27	1.31
1	AA	1128	C	C2-N3	6.22	1.40	1.35
22	AV	5	A	C2-N3	6.22	1.39	1.33
35	BB	120	U	N1-C6	6.22	1.43	1.38
35	BB	192	C	N1-C6	6.22	1.40	1.37
35	BB	391	A	C5-C4	-6.22	1.34	1.38
35	BB	491	G	C6-N1	6.22	1.44	1.39
35	BB	605	G	C3'-C2'	6.22	1.59	1.52
35	BB	993	G	C5'-C4'	-6.22	1.43	1.51
35	BB	1109	C	C5'-C4'	6.22	1.58	1.51
35	BB	1830	C	C5-C6	-6.22	1.29	1.34
35	BB	1892	C	C2'-C1'	-6.22	1.46	1.53
1	AA	1278	G	N3-C4	6.22	1.39	1.35
4	AD	3	TYR	CG-CD1	6.22	1.47	1.39
35	BB	747	U	C1'-N1	6.22	1.58	1.48
35	BB	972	A	P-O5'	-6.22	1.53	1.59
35	BB	2117	A	N3-C4	6.22	1.38	1.34
1	AA	1316	G	O3'-P	-6.22	1.53	1.61
1	AA	1491	G	C5'-C4'	6.22	1.58	1.51
35	BB	2149	U	C2'-C1'	-6.22	1.46	1.53
1	AA	518	C	P-O5'	-6.22	1.53	1.59
1	AA	872	A	N7-C5	-6.22	1.35	1.39
1	AA	1098	C	N1-C6	6.22	1.40	1.37
2	AB	21	TYR	CG-CD2	6.22	1.47	1.39
35	BB	484	C	C2'-C1'	-6.22	1.46	1.53
35	BB	1334	G	C2'-C1'	-6.22	1.46	1.53
35	BB	2217	G	N1-C2	6.22	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	396	C	N3-C4	6.22	1.38	1.33
7	AG	52	ARG	CZ-NH2	6.22	1.41	1.33
34	BA	56	G	P-O5'	6.22	1.66	1.59
35	BB	21	A	C5-C4	-6.22	1.34	1.38
35	BB	237	C	C2-O2	-6.22	1.18	1.24
35	BB	1272	A	C6-N6	6.22	1.39	1.33
1	AA	339	C	C2-N3	6.22	1.40	1.35
1	AA	822	U	N1-C2	6.22	1.44	1.38
1	AA	872	A	C8-N7	-6.22	1.27	1.31
1	AA	1091	U	O3'-P	-6.22	1.53	1.61
35	BB	700	G	N1-C2	6.22	1.42	1.37
35	BB	977	G	C3'-C2'	6.22	1.59	1.52
35	BB	1845	G	C8-N7	6.22	1.34	1.30
35	BB	2252	G	P-O5'	-6.22	1.53	1.59
35	BB	2410	G	N9-C4	6.22	1.43	1.38
35	BB	2791	G	N1-C2	6.22	1.42	1.37
1	AA	487	A	C5'-C4'	6.21	1.58	1.51
1	AA	753	A	N7-C5	-6.21	1.35	1.39
1	AA	1016	A	C3'-C2'	6.21	1.59	1.52
35	BB	333	G	C6-O6	-6.21	1.18	1.24
35	BB	849	A	C4'-O4'	-6.21	1.37	1.45
35	BB	1435	G	C3'-O3'	6.21	1.50	1.42
35	BB	1676	A	C2'-C1'	-6.21	1.46	1.53
35	BB	1839	G	C2-N3	6.21	1.37	1.32
35	BB	1858	A	C4'-C3'	6.21	1.59	1.53
35	BB	1863	G	C4'-C3'	-6.21	1.46	1.53
35	BB	2484	G	C2'-C1'	-6.21	1.46	1.53
35	BB	2869	G	C5'-C4'	6.21	1.58	1.51
1	AA	582	C	N3-C4	6.21	1.38	1.33
35	BB	1092	C	C3'-C2'	6.21	1.59	1.52
35	BB	1210	G	C3'-C2'	-6.21	1.46	1.52
35	BB	1856	U	C5'-C4'	6.21	1.58	1.51
35	BB	2316	G	N7-C5	6.21	1.43	1.39
35	BB	2739	U	C5'-C4'	6.21	1.58	1.51
1	AA	320	A	C6-N6	6.21	1.39	1.33
1	AA	488	C	C2'-C1'	-6.21	1.46	1.53
1	AA	1143	G	O4'-C1'	6.21	1.49	1.41
35	BB	24	G	C6-N1	6.21	1.43	1.39
35	BB	1010	A	C2'-C1'	-6.21	1.46	1.53
35	BB	2043	C	O3'-P	-6.21	1.53	1.61
35	BB	2127	G	N7-C5	-6.21	1.35	1.39
1	AA	1342	C	C3'-C2'	-6.21	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1437	A	O3'-P	-6.21	1.53	1.61
1	AA	1480	A	C2'-C1'	-6.21	1.46	1.53
35	BB	586	A	C3'-O3'	6.21	1.50	1.42
1	AA	856	C	C5'-C4'	6.21	1.58	1.51
1	AA	1256	A	N7-C5	6.21	1.43	1.39
1	AA	1275	A	C6-N1	6.21	1.39	1.35
1	AA	1461	G	C2'-C1'	-6.21	1.46	1.53
1	AA	1513	A	P-O5'	-6.21	1.53	1.59
35	BB	805	G	C8-N7	6.21	1.34	1.30
35	BB	1051	G	N9-C8	6.21	1.42	1.37
35	BB	1288	G	C5-C6	-6.21	1.36	1.42
35	BB	2209	G	N9-C4	-6.21	1.32	1.38
35	BB	2591	C	N3-C4	6.21	1.38	1.33
35	BB	2729	G	N9-C8	6.21	1.42	1.37
1	AA	356	A	N7-C5	-6.21	1.35	1.39
1	AA	381	C	C2-N3	-6.21	1.30	1.35
1	AA	959	A	O3'-P	-6.21	1.53	1.61
1	AA	1310	G	O3'-P	-6.21	1.53	1.61
1	AA	1501	C	C4-C5	-6.21	1.38	1.43
35	BB	400	G	N9-C8	6.21	1.42	1.37
35	BB	467	G	P-O5'	-6.21	1.53	1.59
35	BB	640	C	C3'-C2'	-6.21	1.46	1.52
35	BB	928	A	C4'-C3'	6.21	1.59	1.53
35	BB	1083	U	N1-C2	-6.21	1.32	1.38
35	BB	2399	G	C5-C4	-6.21	1.34	1.38
1	AA	904	U	N1-C2	-6.21	1.32	1.38
35	BB	57	C	O4'-C1'	6.21	1.49	1.41
35	BB	939	G	N9-C4	-6.21	1.32	1.38
35	BB	2403	C	C4-N4	6.21	1.39	1.33
1	AA	112	G	N1-C2	6.20	1.42	1.37
1	AA	366	A	C5-C4	-6.20	1.34	1.38
1	AA	902	G	C5-C6	6.20	1.48	1.42
1	AA	1230	C	C4-N4	6.20	1.39	1.33
35	BB	399	U	C4'-O4'	-6.20	1.37	1.45
35	BB	518	G	N3-C4	-6.20	1.31	1.35
35	BB	670	A	N3-C4	-6.20	1.31	1.34
35	BB	1416	G	N7-C5	-6.20	1.35	1.39
35	BB	1835	G	N1-C2	6.20	1.42	1.37
35	BB	2107	G	N7-C5	-6.20	1.35	1.39
35	BB	2456	C	C4-N4	6.20	1.39	1.33
35	BB	2689	U	N3-C4	6.20	1.44	1.38
35	BB	2717	C	C2'-C1'	-6.20	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	155	A	C6-N1	6.20	1.39	1.35
10	AJ	62	ARG	CD-NE	6.20	1.56	1.46
34	BA	9	G	N9-C4	-6.20	1.32	1.38
35	BB	815	C	N1-C6	6.20	1.40	1.37
48	BO	9	ARG	CZ-NH1	6.20	1.41	1.33
34	BA	23	G	C2-N2	6.20	1.40	1.34
35	BB	146	A	C6-N1	6.20	1.39	1.35
35	BB	174	U	N3-C4	6.20	1.44	1.38
35	BB	608	A	O3'-P	-6.20	1.53	1.61
35	BB	1251	C	C4'-C3'	6.20	1.59	1.53
1	AA	975	A	N3-C4	-6.20	1.31	1.34
1	AA	1213	A	C4'-C3'	-6.20	1.46	1.53
35	BB	30	G	C2-N3	6.20	1.37	1.32
35	BB	331	C	C4-N4	6.20	1.39	1.33
35	BB	1835	G	C5-C6	-6.20	1.36	1.42
35	BB	1947	C	C4'-O4'	6.20	1.53	1.45
35	BB	2023	C	P-O5'	-6.20	1.53	1.59
1	AA	559	A	C2'-C1'	-6.20	1.46	1.53
1	AA	646	G	N9-C4	-6.20	1.32	1.38
10	AJ	41	PRO	CA-CB	6.20	1.66	1.53
35	BB	252	G	C5'-C4'	-6.20	1.44	1.51
35	BB	1703	G	C2-N3	6.20	1.37	1.32
35	BB	1800	C	C2'-C1'	-6.20	1.46	1.53
35	BB	382	A	C2'-C1'	-6.20	1.46	1.53
35	BB	695	G	C5-C4	-6.20	1.34	1.38
35	BB	891	G	N9-C8	-6.20	1.33	1.37
35	BB	1122	G	N9-C4	6.20	1.43	1.38
35	BB	2631	G	C2-N3	6.20	1.37	1.32
35	BB	2900	A	N9-C8	6.20	1.42	1.37
1	AA	303	A	O3'-P	-6.19	1.53	1.61
35	BB	1353	A	C5-C4	6.19	1.43	1.38
35	BB	1375	U	C5'-C4'	6.19	1.58	1.51
1	AA	1039	G	N9-C8	-6.19	1.33	1.37
34	BA	51	G	N9-C4	6.19	1.43	1.38
34	BA	72	G	C5-C4	6.19	1.42	1.38
35	BB	21	A	N7-C5	-6.19	1.35	1.39
35	BB	882	G	C4'-C3'	-6.19	1.46	1.53
35	BB	1973	G	N9-C8	6.19	1.42	1.37
35	BB	2341	G	N1-C2	6.19	1.42	1.37
35	BB	2681	C	C3'-O3'	6.19	1.50	1.42
1	AA	1449	C	C4-C5	6.19	1.48	1.43
35	BB	847	U	O3'-P	-6.19	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	972	A	O4'-C1'	-6.19	1.33	1.41
35	BB	997	G	C5-C4	6.19	1.42	1.38
35	BB	2062	A	C4'-C3'	6.19	1.59	1.53
35	BB	2687	U	O3'-P	-6.19	1.53	1.61
35	BB	2894	G	N7-C5	-6.19	1.35	1.39
1	AA	399	G	C6-N1	6.19	1.43	1.39
1	AA	449	G	C4'-C3'	6.19	1.59	1.53
1	AA	561	U	C5'-C4'	6.19	1.58	1.51
1	AA	1259	C	C5-C6	6.19	1.39	1.34
1	AA	53	A	N9-C8	-6.19	1.32	1.37
1	AA	368	U	C4-C5	6.19	1.49	1.43
35	BB	269	C	O3'-P	-6.19	1.53	1.61
35	BB	694	U	C4-C5	6.19	1.49	1.43
35	BB	1917	U	C2-N3	6.19	1.42	1.37
35	BB	1970	A	N9-C4	-6.19	1.34	1.37
35	BB	2652	C	C4-N4	6.19	1.39	1.33
35	BB	2729	G	N3-C4	-6.19	1.31	1.35
35	BB	2804	U	N3-C4	6.19	1.44	1.38
1	AA	1122	U	N3-C4	6.19	1.44	1.38
35	BB	7	G	C8-N7	-6.19	1.27	1.30
35	BB	997	G	C4'-C3'	-6.19	1.46	1.53
1	AA	590	U	C4'-C3'	-6.18	1.46	1.53
1	AA	622	A	C6-N1	6.18	1.39	1.35
1	AA	1286	U	C2-N3	6.18	1.42	1.37
35	BB	176	A	C8-N7	-6.18	1.27	1.31
35	BB	442	G	N9-C8	-6.18	1.33	1.37
35	BB	926	G	C2-N2	-6.18	1.28	1.34
35	BB	1176	U	C5'-C4'	6.18	1.58	1.51
35	BB	1978	A	C2'-C1'	-6.18	1.46	1.53
1	AA	596	A	N9-C8	6.18	1.42	1.37
1	AA	801	U	O3'-P	-6.18	1.53	1.61
1	AA	1271	A	P-O5'	-6.18	1.53	1.59
1	AA	1319	A	C8-N7	-6.18	1.27	1.31
35	BB	855	G	O3'-P	-6.18	1.53	1.61
35	BB	1696	G	O3'-P	-6.18	1.53	1.61
35	BB	1838	C	C2'-C1'	-6.18	1.46	1.53
35	BB	2057	G	N3-C4	-6.18	1.31	1.35
35	BB	2716	C	C4-N4	6.18	1.39	1.33
1	AA	108	G	P-O5'	6.18	1.66	1.59
1	AA	445	G	C8-N7	-6.18	1.27	1.30
35	BB	1592	C	C5'-C4'	6.18	1.58	1.51
35	BB	2120	G	O3'-P	-6.18	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	389	A	C4'-C3'	-6.18	1.46	1.53
1	AA	465	A	N7-C5	-6.18	1.35	1.39
1	AA	1323	G	C2-N3	6.18	1.37	1.32
35	BB	261	G	C8-N7	-6.18	1.27	1.30
35	BB	477	A	C1'-N9	-6.18	1.38	1.46
35	BB	535	G	C4'-C3'	-6.18	1.46	1.53
35	BB	664	G	C3'-C2'	6.18	1.59	1.52
35	BB	1022	G	C6-N1	-6.18	1.35	1.39
35	BB	1425	G	N7-C5	-6.18	1.35	1.39
35	BB	1452	G	N1-C2	6.18	1.42	1.37
35	BB	1732	C	O3'-P	-6.18	1.53	1.61
35	BB	1975	G	N7-C5	-6.18	1.35	1.39
8	AH	44	PHE	CG-CD2	6.18	1.48	1.38
35	BB	158	U	P-O5'	-6.18	1.53	1.59
35	BB	247	G	C4'-C3'	-6.18	1.46	1.53
35	BB	1347	A	C2'-C1'	-6.18	1.46	1.53
35	BB	1869	G	O3'-P	-6.18	1.53	1.61
35	BB	2742	G	N7-C5	6.18	1.43	1.39
1	AA	456	A	C5-C4	6.18	1.43	1.38
1	AA	1151	A	C5-C6	6.18	1.46	1.41
1	AA	1241	G	C8-N7	6.18	1.34	1.30
34	BA	62	C	C4-N4	6.18	1.39	1.33
35	BB	1015	U	C2-N3	6.18	1.42	1.37
35	BB	1246	A	C6-N1	6.18	1.39	1.35
35	BB	1563	U	C4-C5	-6.18	1.38	1.43
35	BB	2112	G	C2-N2	6.18	1.40	1.34
35	BB	2236	U	C4-C5	6.18	1.49	1.43
35	BB	2287	A	N9-C4	-6.18	1.34	1.37
35	BB	2454	G	N1-C2	6.18	1.42	1.37
1	AA	199	A	C4'-C3'	-6.17	1.46	1.53
1	AA	411	A	N3-C4	-6.17	1.31	1.34
1	AA	1350	A	C5-C4	6.17	1.43	1.38
34	BA	79	G	N9-C4	6.17	1.42	1.38
35	BB	23	G	C5'-C4'	6.17	1.58	1.51
35	BB	98	G	C6-N1	6.17	1.43	1.39
35	BB	530	G	C2-N3	6.17	1.37	1.32
35	BB	659	G	C2-N2	6.17	1.40	1.34
35	BB	984	A	N9-C8	6.17	1.42	1.37
35	BB	1679	A	C6-N6	6.17	1.38	1.33
35	BB	1843	C	C2-N3	6.17	1.40	1.35
35	BB	1891	G	C6-N1	-6.17	1.35	1.39
35	BB	2418	A	N7-C5	-6.17	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2700	A	C5-C6	-6.17	1.35	1.41
35	BB	2744	G	O4'-C1'	-6.17	1.33	1.41
1	AA	550	G	C6-O6	-6.17	1.18	1.24
34	BA	2	G	N7-C5	-6.17	1.35	1.39
35	BB	2404	U	N3-C4	6.17	1.44	1.38
1	AA	926	G	N3-C4	-6.17	1.31	1.35
1	AA	1185	G	O3'-P	-6.17	1.53	1.61
1	AA	1243	C	C2-N3	6.17	1.40	1.35
1	AA	1472	U	C5'-C4'	6.17	1.58	1.51
35	BB	32	C	C2'-C1'	-6.17	1.46	1.53
35	BB	2885	G	C3'-C2'	-6.17	1.46	1.52
1	AA	1233	G	C6-N1	6.17	1.43	1.39
34	BA	61	G	C3'-C2'	-6.17	1.46	1.52
35	BB	1668	A	C3'-C2'	-6.17	1.46	1.52
35	BB	2308	G	N9-C4	-6.17	1.33	1.38
35	BB	2408	U	C3'-C2'	6.17	1.59	1.52
35	BB	2519	U	O4'-C1'	-6.17	1.33	1.41
35	BB	2693	G	C6-N1	6.17	1.43	1.39
1	AA	912	C	O3'-P	-6.17	1.53	1.61
35	BB	598	U	C4'-C3'	6.17	1.59	1.53
35	BB	2136	G	C4'-C3'	6.17	1.59	1.53
35	BB	2138	G	C2-N3	6.17	1.37	1.32
35	BB	2675	A	N9-C4	-6.17	1.34	1.37
35	BB	2882	A	C6-N1	-6.17	1.31	1.35
43	BJ	35	ARG	NE-CZ	6.17	1.41	1.33
1	AA	580	C	O3'-P	-6.17	1.53	1.61
1	AA	998	C	C5'-C4'	6.17	1.58	1.51
1	AA	1020	G	C6-N1	6.17	1.43	1.39
35	BB	388	G	C2-N3	6.17	1.37	1.32
35	BB	397	U	C2-N3	6.17	1.42	1.37
35	BB	789	A	C6-N6	6.17	1.38	1.33
35	BB	997	G	N3-C4	-6.17	1.31	1.35
35	BB	1048	A	N7-C5	-6.17	1.35	1.39
1	AA	964	A	C6-N6	6.17	1.38	1.33
35	BB	72	U	C2'-C1'	-6.17	1.46	1.53
35	BB	851	C	N1-C6	6.17	1.40	1.37
35	BB	1059	G	N3-C4	-6.17	1.31	1.35
35	BB	284	U	C4-C5	6.16	1.49	1.43
35	BB	2263	C	C2-O2	6.16	1.29	1.24
35	BB	2497	A	N7-C5	-6.16	1.35	1.39
1	AA	66	A	N1-C2	-6.16	1.28	1.34
1	AA	1112	C	N1-C2	6.16	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1297	G	N9-C4	6.16	1.42	1.38
35	BB	42	A	C6-N1	6.16	1.39	1.35
35	BB	1448	G	C4'-C3'	-6.16	1.46	1.53
1	AA	230	G	C2-N2	6.16	1.40	1.34
1	AA	653	U	O3'-P	-6.16	1.53	1.61
1	AA	687	A	C4'-C3'	6.16	1.59	1.53
1	AA	761	G	O3'-P	6.16	1.68	1.61
1	AA	1279	G	C5-C4	6.16	1.42	1.38
35	BB	115	C	N1-C6	-6.16	1.33	1.37
35	BB	241	A	N7-C5	-6.16	1.35	1.39
35	BB	1566	A	C6-N1	6.16	1.39	1.35
35	BB	1951	U	C3'-C2'	-6.16	1.46	1.52
35	BB	2899	A	N7-C5	-6.16	1.35	1.39
1	AA	1018	G	N1-C2	6.16	1.42	1.37
1	AA	1058	G	N9-C8	6.16	1.42	1.37
35	BB	370	G	N7-C5	-6.16	1.35	1.39
35	BB	1216	G	C2-N2	6.16	1.40	1.34
35	BB	1978	A	C2'-O2'	-6.16	1.33	1.41
35	BB	2776	A	N7-C5	-6.16	1.35	1.39
35	BB	2901	C	N1-C6	-6.16	1.33	1.37
51	BR	9	GLY	CA-C	-6.16	1.42	1.51
1	AA	547	A	N9-C4	-6.16	1.34	1.37
1	AA	759	A	N7-C5	-6.16	1.35	1.39
35	BB	1928	A	O3'-P	-6.16	1.53	1.61
35	BB	2808	G	C4'-O4'	-6.16	1.37	1.45
1	AA	392	C	P-O5'	-6.16	1.53	1.59
35	BB	1478	G	N1-C2	6.16	1.42	1.37
35	BB	2041	U	C1'-N1	6.16	1.57	1.48
35	BB	2410	G	C2'-C1'	-6.16	1.46	1.53
35	BB	2508	G	C8-N7	-6.16	1.27	1.30
35	BB	2683	C	N3-C4	6.16	1.38	1.33
35	BB	2895	G	N3-C4	6.16	1.39	1.35
34	BA	49	C	P-O5'	-6.15	1.53	1.59
35	BB	1001	A	P-O5'	-6.15	1.53	1.59
1	AA	241	G	C5-C6	-6.15	1.36	1.42
35	BB	220	G	C5-C4	-6.15	1.34	1.38
35	BB	1212	G	C2-N2	6.15	1.40	1.34
35	BB	1514	G	O3'-P	-6.15	1.53	1.61
35	BB	1949	G	N1-C2	6.15	1.42	1.37
35	BB	2181	U	C5'-C4'	6.15	1.58	1.51
35	BB	2216	G	N1-C2	6.15	1.42	1.37
35	BB	2504	U	P-O5'	-6.15	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2745	C	N1-C2	6.15	1.46	1.40
35	BB	2747	G	C4'-C3'	6.15	1.59	1.53
1	AA	383	A	N9-C4	6.15	1.41	1.37
1	AA	1440	U	N1-C2	6.15	1.44	1.38
1	AA	1472	U	N1-C2	6.15	1.44	1.38
35	BB	147	C	C4-N4	6.15	1.39	1.33
35	BB	384	A	C4'-O4'	6.15	1.53	1.45
35	BB	674	G	N3-C4	-6.15	1.31	1.35
35	BB	955	U	C4-C5	6.15	1.49	1.43
35	BB	1098	A	N3-C4	6.15	1.38	1.34
35	BB	1671	U	P-O5'	-6.15	1.53	1.59
37	BD	117	GLY	N-CA	-6.15	1.36	1.46
35	BB	1080	A	C6-N6	6.15	1.38	1.33
35	BB	1126	A	C5-C4	-6.15	1.34	1.38
35	BB	2395	C	N3-C4	6.15	1.38	1.33
7	AG	101	ARG	NE-CZ	6.15	1.41	1.33
34	BA	5	U	P-O5'	-6.15	1.53	1.59
35	BB	779	U	C2-N3	6.15	1.42	1.37
35	BB	1633	G	C2-N3	6.15	1.37	1.32
35	BB	1740	G	C2-N2	6.15	1.40	1.34
35	BB	2888	C	N1-C6	6.15	1.40	1.37
1	AA	162	A	N3-C4	-6.15	1.31	1.34
1	AA	989	U	C5'-C4'	6.15	1.58	1.51
1	AA	1270	G	N3-C4	-6.15	1.31	1.35
12	AL	82	ARG	CZ-NH1	6.15	1.41	1.33
35	BB	115	C	N3-C4	6.15	1.38	1.33
35	BB	1560	G	C2-N3	6.15	1.37	1.32
1	AA	818	G	C2-N2	6.14	1.40	1.34
1	AA	1167	A	C3'-O3'	6.14	1.50	1.42
12	AL	30	ARG	NE-CZ	6.14	1.41	1.33
35	BB	257	C	N1-C6	6.14	1.40	1.37
35	BB	309	A	C4'-C3'	-6.14	1.46	1.53
35	BB	420	C	O3'-P	-6.14	1.53	1.61
35	BB	429	A	P-O5'	-6.14	1.53	1.59
35	BB	1346	G	C8-N7	-6.14	1.27	1.30
35	BB	1446	C	C2'-C1'	-6.14	1.46	1.53
35	BB	1797	G	P-O5'	-6.14	1.53	1.59
35	BB	1963	U	C2-N3	6.14	1.42	1.37
35	BB	2136	G	N1-C2	6.14	1.42	1.37
35	BB	2830	C	C5-C6	-6.14	1.29	1.34
1	AA	299	G	N7-C5	-6.14	1.35	1.39
1	AA	481	G	C6-N1	6.14	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	35	C	C4-N4	6.14	1.39	1.33
35	BB	144	A	C6-N1	6.14	1.39	1.35
35	BB	658	U	C2-N3	6.14	1.42	1.37
35	BB	1711	A	C6-N1	6.14	1.39	1.35
35	BB	2333	A	C4'-C3'	-6.14	1.46	1.53
35	BB	2726	A	C6-N6	6.14	1.38	1.33
1	AA	1459	G	C5'-C4'	6.14	1.58	1.51
35	BB	2034	U	C4-C5	6.14	1.49	1.43
35	BB	2337	G	O3'-P	-6.14	1.53	1.61
35	BB	2555	U	C5'-C4'	6.14	1.58	1.51
1	AA	13	U	N1-C6	6.14	1.43	1.38
1	AA	60	A	C5-C6	-6.14	1.35	1.41
1	AA	236	A	C2-N3	6.14	1.39	1.33
1	AA	483	C	N1-C2	-6.14	1.34	1.40
1	AA	1459	G	C2'-C1'	-6.14	1.46	1.53
34	BA	61	G	N7-C5	-6.14	1.35	1.39
35	BB	64	A	C2'-C1'	-6.14	1.46	1.53
35	BB	155	A	N7-C5	-6.14	1.35	1.39
35	BB	1332	G	C2-N3	6.14	1.37	1.32
35	BB	1457	U	C1'-N1	6.14	1.57	1.48
35	BB	1530	G	C5'-C4'	6.14	1.58	1.51
35	BB	2804	U	O4'-C1'	6.14	1.49	1.41
35	BB	2171	A	N7-C5	-6.14	1.35	1.39
1	AA	1091	U	N1-C2	6.14	1.44	1.38
12	AL	68	GLY	CA-C	-6.14	1.42	1.51
35	BB	212	G	C8-N7	-6.14	1.27	1.30
35	BB	1654	A	N9-C8	6.14	1.42	1.37
35	BB	2621	G	N1-C2	6.14	1.42	1.37
11	AK	127	ARG	CZ-NH2	6.13	1.41	1.33
34	BA	79	G	C5-C6	-6.13	1.36	1.42
35	BB	518	G	C2-N3	6.13	1.37	1.32
35	BB	2140	G	C6-N1	6.13	1.43	1.39
35	BB	2570	G	N7-C5	6.13	1.43	1.39
1	AA	541	G	C5-C6	-6.13	1.36	1.42
34	BA	54	G	N7-C5	-6.13	1.35	1.39
35	BB	234	U	O3'-P	-6.13	1.53	1.61
35	BB	730	A	C4'-C3'	6.13	1.59	1.53
35	BB	1063	G	N7-C5	6.13	1.43	1.39
35	BB	1286	A	N9-C4	-6.13	1.34	1.37
1	AA	362	G	N9-C4	-6.13	1.33	1.38
1	AA	782	A	C5'-C4'	6.13	1.58	1.51
1	AA	1067	A	C1'-N9	-6.13	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	265	A	N9-C4	-6.13	1.34	1.37
35	BB	1021	A	N7-C5	-6.13	1.35	1.39
35	BB	1316	U	C5'-C4'	6.13	1.58	1.51
35	BB	1924	C	C2'-C1'	-6.13	1.46	1.53
35	BB	2113	U	P-O5'	-6.13	1.53	1.59
35	BB	2514	U	N3-C4	6.13	1.44	1.38
37	BD	124	ARG	CZ-NH2	6.13	1.41	1.33
1	AA	819	A	C6-N6	6.13	1.38	1.33
1	AA	1104	G	N7-C5	-6.13	1.35	1.39
35	BB	486	C	C3'-O3'	6.13	1.50	1.42
35	BB	1104	C	C4-C5	-6.13	1.38	1.43
35	BB	1335	C	O3'-P	-6.13	1.53	1.61
35	BB	2336	A	N7-C5	-6.13	1.35	1.39
1	AA	1258	G	N1-C2	6.13	1.42	1.37
34	BA	95	U	O3'-P	-6.13	1.53	1.61
35	BB	37	C	C2'-C1'	-6.13	1.46	1.53
35	BB	154	U	C4'-C3'	-6.13	1.46	1.53
35	BB	428	A	O4'-C1'	6.13	1.49	1.41
35	BB	1589	U	N3-C4	6.13	1.44	1.38
35	BB	1801	A	C6-N6	6.13	1.38	1.33
35	BB	2379	G	N3-C4	-6.13	1.31	1.35
1	AA	300	A	N9-C4	-6.13	1.34	1.37
1	AA	415	A	C2'-C1'	-6.13	1.46	1.53
1	AA	451	A	N9-C4	6.13	1.41	1.37
1	AA	625	U	O3'-P	-6.13	1.53	1.61
1	AA	853	C	C3'-C2'	6.13	1.59	1.52
1	AA	1068	G	N7-C5	-6.13	1.35	1.39
5	AE	28	ARG	CZ-NH2	6.13	1.41	1.33
35	BB	915	C	C4-C5	-6.13	1.38	1.43
35	BB	1080	A	C5'-C4'	6.13	1.58	1.51
35	BB	1569	A	C4'-O4'	-6.13	1.37	1.45
35	BB	1718	G	C8-N7	-6.13	1.27	1.30
35	BB	2458	G	C2-N3	-6.13	1.27	1.32
35	BB	2894	G	C5'-C4'	6.13	1.58	1.51
1	AA	1333	A	C4'-O4'	-6.12	1.37	1.45
35	BB	319	G	C3'-O3'	6.12	1.50	1.42
35	BB	491	G	O4'-C1'	-6.12	1.33	1.41
1	AA	592	G	N7-C5	-6.12	1.35	1.39
1	AA	1004	A	C5-C4	6.12	1.43	1.38
1	AA	1419	G	C8-N7	-6.12	1.27	1.30
34	BA	61	G	N1-C2	6.12	1.42	1.37
35	BB	368	A	C3'-C2'	6.12	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1089	A	C6-N1	-6.12	1.31	1.35
35	BB	2160	C	N3-C4	6.12	1.38	1.33
35	BB	2286	G	C2-N3	6.12	1.37	1.32
35	BB	2682	A	N7-C5	-6.12	1.35	1.39
1	AA	498	A	C8-N7	-6.12	1.27	1.31
1	AA	515	G	C2'-C1'	-6.12	1.46	1.53
1	AA	527	G	C6-N1	6.12	1.43	1.39
1	AA	940	C	C2'-O2'	6.12	1.49	1.41
34	BA	106	G	C4'-O4'	6.12	1.53	1.45
35	BB	69	C	C3'-O3'	6.12	1.50	1.42
35	BB	763	G	C2-N2	6.12	1.40	1.34
35	BB	888	C	N1-C6	6.12	1.40	1.37
35	BB	1451	C	C4-N4	6.12	1.39	1.33
35	BB	1603	A	C5-C4	6.12	1.43	1.38
35	BB	2454	G	N9-C8	6.12	1.42	1.37
1	AA	1153	G	N3-C4	6.12	1.39	1.35
35	BB	401	A	N9-C4	-6.12	1.34	1.37
35	BB	1785	A	O3'-P	-6.12	1.53	1.61
1	AA	511	C	C4'-C3'	-6.12	1.46	1.53
1	AA	763	G	C8-N7	6.12	1.34	1.30
1	AA	804	U	C2'-C1'	-6.12	1.46	1.53
1	AA	830	G	C5'-C4'	6.12	1.58	1.51
35	BB	1525	A	C6-N6	6.12	1.38	1.33
35	BB	2529	G	C8-N7	-6.12	1.27	1.30
1	AA	502	A	P-O5'	-6.12	1.53	1.59
1	AA	1190	G	P-O5'	-6.12	1.53	1.59
35	BB	960	A	O3'-P	-6.12	1.53	1.61
35	BB	1176	U	N1-C6	-6.12	1.32	1.38
35	BB	1772	A	C4'-C3'	-6.12	1.46	1.53
35	BB	1997	C	O3'-P	-6.12	1.53	1.61
35	BB	2233	U	C4-C5	6.12	1.49	1.43
35	BB	2844	G	O4'-C1'	6.12	1.49	1.41
1	AA	208	U	N3-C4	6.12	1.44	1.38
1	AA	281	G	C2-N3	6.12	1.37	1.32
3	AC	202	PHE	CG-CD2	6.12	1.48	1.38
35	BB	800	A	N3-C4	-6.12	1.31	1.34
35	BB	1056	G	N3-C4	-6.12	1.31	1.35
35	BB	1654	A	P-O5'	-6.12	1.53	1.59
35	BB	2098	U	C4-C5	6.12	1.49	1.43
35	BB	2474	U	N3-C4	6.12	1.44	1.38
1	AA	753	A	C5'-C4'	6.11	1.58	1.51
1	AA	1120	C	N3-C4	6.11	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	AL	85	ARG	NE-CZ	6.11	1.41	1.33
35	BB	222	A	N9-C4	-6.11	1.34	1.37
35	BB	527	C	N3-C4	6.11	1.38	1.33
35	BB	1218	G	N1-C2	6.11	1.42	1.37
35	BB	1479	G	C5-C4	-6.11	1.34	1.38
35	BB	2186	G	C8-N7	-6.11	1.27	1.30
49	BP	88	ARG	CZ-NH1	6.11	1.41	1.33
1	AA	657	U	C2'-C1'	-6.11	1.46	1.53
1	AA	1162	C	C2'-C1'	-6.11	1.46	1.53
35	BB	1233	C	N1-C2	-6.11	1.34	1.40
1	AA	788	U	P-O5'	-6.11	1.53	1.59
1	AA	1510	C	C2-N3	6.11	1.40	1.35
9	AI	5	TYR	CE2-CZ	6.11	1.46	1.38
35	BB	598	U	C5-C6	-6.11	1.28	1.34
35	BB	1228	G	C2'-C1'	-6.11	1.46	1.53
35	BB	2040	G	C3'-C2'	-6.11	1.46	1.52
35	BB	2890	G	N7-C5	-6.11	1.35	1.39
45	BL	69	ARG	CZ-NH1	6.11	1.41	1.33
51	BR	67	GLY	CA-C	-6.11	1.42	1.51
1	AA	805	C	C4'-O4'	6.11	1.53	1.45
1	AA	1011	C	C4'-O4'	-6.11	1.37	1.45
28	B3	47	TYR	CG-CD2	6.11	1.47	1.39
35	BB	513	A	O4'-C1'	-6.11	1.33	1.41
35	BB	1159	U	O4'-C1'	6.11	1.49	1.41
35	BB	2012	G	C6-N1	6.11	1.43	1.39
35	BB	2307	G	O3'-P	-6.11	1.53	1.61
1	AA	600	A	N7-C5	-6.11	1.35	1.39
1	AA	834	U	C2'-C1'	6.11	1.60	1.53
35	BB	438	G	C8-N7	6.11	1.34	1.30
35	BB	954	G	P-O5'	-6.11	1.53	1.59
35	BB	2775	G	N9-C8	6.11	1.42	1.37
35	BB	1054	A	N7-C5	-6.11	1.35	1.39
35	BB	1425	G	N1-C2	6.11	1.42	1.37
35	BB	1460	U	C4-O4	-6.11	1.18	1.23
35	BB	96	C	C4'-C3'	-6.10	1.46	1.53
35	BB	1103	A	N1-C2	6.10	1.39	1.34
35	BB	1628	G	N3-C4	6.10	1.39	1.35
35	BB	1813	G	O3'-P	-6.10	1.53	1.61
35	BB	1885	A	C2-N3	6.10	1.39	1.33
35	BB	1992	G	N3-C4	-6.10	1.31	1.35
35	BB	2319	G	C4'-C3'	-6.10	1.46	1.53
35	BB	2642	G	C6-O6	-6.10	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1024	G	N7-C5	-6.10	1.35	1.39
34	BA	13	G	N9-C4	-6.10	1.33	1.38
35	BB	1321	A	C2'-C1'	-6.10	1.46	1.53
35	BB	1476	U	C2'-C1'	-6.10	1.46	1.53
35	BB	1569	A	C8-N7	-6.10	1.27	1.31
35	BB	1493	C	C5'-C4'	6.10	1.58	1.51
35	BB	2110	G	N7-C5	-6.10	1.35	1.39
1	AA	41	G	C5'-C4'	6.10	1.58	1.51
1	AA	1096	C	P-O5'	-6.10	1.53	1.59
1	AA	1172	C	O4'-C1'	-6.10	1.33	1.41
1	AA	1269	A	O3'-P	-6.10	1.53	1.61
35	BB	430	A	N9-C4	-6.10	1.34	1.37
35	BB	1090	A	N1-C2	6.10	1.39	1.34
35	BB	2587	A	N1-C2	6.10	1.39	1.34
50	BQ	27	ARG	NE-CZ	6.10	1.41	1.33
1	AA	78	A	C3'-O3'	6.10	1.50	1.42
1	AA	366	A	C6-N6	6.10	1.38	1.33
1	AA	1075	U	O4'-C1'	6.10	1.49	1.41
1	AA	1463	U	N3-C4	6.10	1.44	1.38
35	BB	1191	G	N3-C4	-6.10	1.31	1.35
35	BB	1646	C	N1-C6	-6.10	1.33	1.37
35	BB	2012	G	C2-N2	6.10	1.40	1.34
35	BB	2240	U	C2'-C1'	-6.10	1.46	1.53
35	BB	2523	G	P-O5'	-6.10	1.53	1.59
35	BB	2645	G	N9-C4	6.10	1.42	1.38
43	BJ	27	ARG	CZ-NH2	6.10	1.41	1.33
1	AA	234	C	C4'-O4'	6.10	1.53	1.45
34	BA	76	G	C5-C4	6.10	1.42	1.38
35	BB	1547	C	C2'-C1'	-6.10	1.46	1.53
35	BB	1573	G	O3'-P	-6.09	1.53	1.61
35	BB	1585	C	N3-C4	6.09	1.38	1.33
35	BB	2007	U	N1-C2	6.09	1.44	1.38
35	BB	2337	G	N3-C4	6.09	1.39	1.35
35	BB	2691	C	C3'-C2'	-6.09	1.46	1.52
1	AA	270	A	C6-N1	6.09	1.39	1.35
1	AA	389	A	C6-N6	6.09	1.38	1.33
1	AA	799	G	N3-C4	-6.09	1.31	1.35
1	AA	909	A	C4'-C3'	6.09	1.59	1.53
1	AA	944	G	P-O5'	-6.09	1.53	1.59
1	AA	1059	C	C3'-C2'	-6.09	1.46	1.52
35	BB	494	G	N9-C8	-6.09	1.33	1.37
1	AA	1397	C	C2-N3	6.09	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	438	G	C4'-C3'	6.09	1.59	1.53
35	BB	1812	U	N3-C4	6.09	1.44	1.38
35	BB	2887	A	C8-N7	-6.09	1.27	1.31
1	AA	190	A	P-O5'	6.09	1.65	1.59
35	BB	821	A	C5'-C4'	6.09	1.58	1.51
35	BB	1319	C	C4-N4	6.09	1.39	1.33
35	BB	2248	C	N3-C4	6.09	1.38	1.33
1	AA	211	G	C5-C4	6.09	1.42	1.38
1	AA	586	C	P-O5'	-6.09	1.53	1.59
20	AT	14	GLU	CG-CD	6.09	1.61	1.51
35	BB	1109	C	P-O5'	-6.09	1.53	1.59
35	BB	1269	A	N9-C8	6.09	1.42	1.37
1	AA	574	A	P-O5'	-6.09	1.53	1.59
1	AA	657	U	C4-O4	-6.09	1.18	1.23
1	AA	673	A	N9-C8	-6.09	1.32	1.37
1	AA	918	A	C4'-O4'	-6.09	1.37	1.45
1	AA	1010	U	P-O5'	-6.09	1.53	1.59
1	AA	1268	G	N9-C4	6.09	1.42	1.38
35	BB	1171	G	C2'-C1'	-6.09	1.46	1.53
35	BB	1244	A	C8-N7	-6.09	1.27	1.31
35	BB	2211	A	N1-C2	6.09	1.39	1.34
36	BC	101	ARG	NE-CZ	6.09	1.41	1.33
1	AA	707	U	N3-C4	6.08	1.44	1.38
1	AA	1163	A	C2-N3	6.08	1.39	1.33
35	BB	272	A	N9-C4	-6.08	1.34	1.37
35	BB	316	C	C4-N4	6.08	1.39	1.33
1	AA	1124	G	N3-C4	6.08	1.39	1.35
35	BB	39	G	C6-N1	6.08	1.43	1.39
35	BB	1234	U	C2-N3	6.08	1.42	1.37
35	BB	1408	G	C1'-N9	-6.08	1.38	1.46
35	BB	2273	A	C4'-C3'	6.08	1.59	1.53
35	BB	2299	U	C2-N3	6.08	1.42	1.37
35	BB	2653	U	N3-C4	6.08	1.44	1.38
1	AA	534	U	C5'-C4'	6.08	1.58	1.51
1	AA	970	C	C5'-C4'	6.08	1.58	1.51
1	AA	1099	G	C5-C6	6.08	1.48	1.42
1	AA	1149	C	N3-C4	6.08	1.38	1.33
1	AA	1379	G	C5'-C4'	6.08	1.58	1.51
35	BB	143	C	C5-C6	6.08	1.39	1.34
35	BB	997	G	C5'-C4'	6.08	1.58	1.51
35	BB	1162	G	C2-N3	6.08	1.37	1.32
35	BB	1949	G	C5-C6	-6.08	1.36	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2887	A	N9-C4	6.08	1.41	1.37
1	AA	685	G	C8-N7	-6.08	1.27	1.30
35	BB	342	A	C6-N6	6.08	1.38	1.33
35	BB	439	A	N7-C5	-6.08	1.35	1.39
35	BB	1197	G	C3'-C2'	-6.08	1.46	1.52
35	BB	2180	U	C3'-C2'	6.08	1.59	1.52
1	AA	76	G	N9-C8	6.08	1.42	1.37
34	BA	95	U	C4-C5	6.08	1.49	1.43
35	BB	1276	A	C5-C4	6.08	1.43	1.38
35	BB	1982	U	C5'-C4'	6.08	1.58	1.51
35	BB	2491	U	C5-C6	-6.08	1.28	1.34
52	BS	84	ARG	CZ-NH2	6.08	1.41	1.33
1	AA	357	G	N3-C4	6.08	1.39	1.35
1	AA	391	G	C5-C4	6.08	1.42	1.38
35	BB	803	U	C4'-C3'	6.08	1.59	1.53
35	BB	1059	G	C8-N7	6.08	1.34	1.30
35	BB	1157	G	C2-N3	6.08	1.37	1.32
35	BB	2012	G	C8-N7	6.08	1.34	1.30
36	BC	68	ARG	CD-NE	6.08	1.56	1.46
1	AA	1072	G	P-O5'	-6.08	1.53	1.59
1	AA	1102	A	C4'-O4'	-6.08	1.37	1.45
35	BB	1765	U	C2-N3	6.08	1.42	1.37
35	BB	1807	G	C2-N3	6.08	1.37	1.32
35	BB	2092	U	C5'-C4'	6.08	1.58	1.51
35	BB	2397	G	N9-C4	6.08	1.42	1.38
1	AA	254	G	C5-C4	6.07	1.42	1.38
1	AA	336	A	N7-C5	-6.07	1.35	1.39
1	AA	789	U	C3'-O3'	6.07	1.50	1.42
4	AD	13	ARG	CD-NE	6.07	1.56	1.46
31	B6	12	ARG	NE-CZ	6.07	1.41	1.33
35	BB	380	G	C6-N1	6.07	1.43	1.39
35	BB	1597	A	C4'-C3'	6.07	1.59	1.53
35	BB	1719	G	N1-C2	6.07	1.42	1.37
35	BB	2232	C	N1-C6	6.07	1.40	1.37
35	BB	2358	A	N3-C4	-6.07	1.31	1.34
35	BB	2695	U	P-O5'	-6.07	1.53	1.59
1	AA	135	C	C4-C5	-6.07	1.38	1.43
1	AA	702	A	N9-C4	6.07	1.41	1.37
35	BB	878	A	C4'-O4'	6.07	1.53	1.45
35	BB	1375	U	C4-C5	6.07	1.49	1.43
35	BB	2284	A	C2'-C1'	-6.07	1.46	1.53
1	AA	179	A	N9-C4	-6.07	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1225	A	C5-C4	6.07	1.43	1.38
7	AG	78	ARG	CD-NE	6.07	1.56	1.46
35	BB	525	U	C5-C6	6.07	1.39	1.34
35	BB	1011	G	C2-N3	-6.07	1.27	1.32
35	BB	1608	A	C2'-C1'	-6.07	1.46	1.53
35	BB	1973	G	C2-N3	6.07	1.37	1.32
35	BB	2188	U	C1'-N1	6.07	1.57	1.48
35	BB	2660	A	C6-N1	6.07	1.39	1.35
1	AA	405	U	C2-N3	6.07	1.42	1.37
1	AA	538	G	C3'-C2'	-6.07	1.46	1.52
1	AA	854	U	C4'-C3'	-6.07	1.46	1.53
1	AA	145	G	C2-N2	6.07	1.40	1.34
1	AA	628	G	N3-C4	-6.07	1.31	1.35
1	AA	1006	G	N9-C8	-6.07	1.33	1.37
1	AA	1048	G	C5-C4	6.07	1.42	1.38
1	AA	1051	C	O4'-C1'	6.07	1.49	1.41
1	AA	1131	G	C6-N1	6.07	1.43	1.39
1	AA	273	U	C2-O2	6.07	1.27	1.22
1	AA	423	G	C4'-C3'	6.07	1.59	1.53
1	AA	1021	A	C8-N7	-6.07	1.27	1.31
1	AA	1127	G	C2'-C1'	-6.07	1.46	1.53
1	AA	1240	U	N3-C4	6.07	1.44	1.38
35	BB	942	G	C4'-C3'	6.07	1.59	1.53
35	BB	1103	A	O3'-P	-6.07	1.53	1.61
35	BB	1938	A	C5'-C4'	6.07	1.58	1.51
35	BB	2482	A	C2'-C1'	-6.07	1.46	1.53
35	BB	2892	G	C5-C4	6.07	1.42	1.38
37	BD	124	ARG	NE-CZ	6.07	1.41	1.33
1	AA	284	C	P-O5'	-6.06	1.53	1.59
1	AA	854	U	C5'-C4'	6.06	1.58	1.51
1	AA	1191	A	P-O5'	-6.06	1.53	1.59
1	AA	1530	G	C6-N1	6.06	1.43	1.39
34	BA	64	G	N9-C8	6.06	1.42	1.37
35	BB	284	U	N1-C2	-6.06	1.33	1.38
1	AA	23	C	C2'-C1'	-6.06	1.46	1.53
1	AA	786	G	N7-C5	-6.06	1.35	1.39
1	AA	1368	A	C8-N7	-6.06	1.27	1.31
35	BB	152	A	P-O5'	-6.06	1.53	1.59
35	BB	582	A	O3'-P	-6.06	1.53	1.61
35	BB	2242	G	C2'-C1'	-6.06	1.46	1.53
35	BB	42	A	N1-C2	-6.06	1.28	1.34
35	BB	1375	U	N1-C6	6.06	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1403	A	N3-C4	-6.06	1.31	1.34
35	BB	2388	A	P-O5'	-6.06	1.53	1.59
35	BB	2608	G	N7-C5	-6.06	1.35	1.39
1	AA	283	U	O4'-C1'	-6.06	1.33	1.41
1	AA	293	G	N9-C8	6.06	1.42	1.37
1	AA	745	G	C8-N7	-6.06	1.27	1.30
1	AA	906	A	O3'-P	-6.06	1.53	1.61
1	AA	1421	G	P-O5'	-6.06	1.53	1.59
2	AB	55	GLU	CD-OE2	6.06	1.32	1.25
35	BB	296	U	N3-C4	6.06	1.44	1.38
35	BB	1659	G	C2'-O2'	6.06	1.49	1.41
35	BB	1700	A	C6-N6	6.06	1.38	1.33
35	BB	2573	C	C2'-C1'	-6.06	1.46	1.53
1	AA	1101	A	N7-C5	-6.06	1.35	1.39
35	BB	443	A	C8-N7	6.06	1.35	1.31
35	BB	730	A	C6-N1	6.06	1.39	1.35
35	BB	733	G	C4'-O4'	6.06	1.53	1.45
35	BB	1108	U	C2'-C1'	-6.06	1.46	1.53
35	BB	1358	G	C2-N3	6.06	1.37	1.32
35	BB	1739	A	N3-C4	6.06	1.38	1.34
35	BB	1743	G	C2-N2	6.06	1.40	1.34
35	BB	2068	U	N3-C4	6.06	1.44	1.38
35	BB	550	C	C4'-C3'	-6.06	1.46	1.53
35	BB	868	U	C2'-C1'	-6.06	1.46	1.53
35	BB	1292	G	N1-C2	6.06	1.42	1.37
35	BB	2100	G	C8-N7	6.06	1.34	1.30
1	AA	850	U	C4-C5	6.05	1.49	1.43
1	AA	1185	G	C6-O6	-6.05	1.18	1.24
1	AA	1321	U	C4'-O4'	-6.05	1.37	1.45
1	AA	1514	G	C8-N7	-6.05	1.27	1.30
34	BA	71	C	C4-N4	6.05	1.39	1.33
35	BB	43	G	C6-N1	6.05	1.43	1.39
35	BB	352	A	C6-N6	6.05	1.38	1.33
35	BB	388	G	N1-C2	6.05	1.42	1.37
35	BB	913	U	C4'-C3'	6.05	1.59	1.53
35	BB	973	A	C5-C6	-6.05	1.35	1.41
35	BB	1006	C	N1-C2	-6.05	1.34	1.40
35	BB	1306	C	N3-C4	6.05	1.38	1.33
35	BB	2614	A	C6-N6	6.05	1.38	1.33
35	BB	474	G	N9-C8	-6.05	1.33	1.37
35	BB	526	A	C5'-C4'	6.05	1.58	1.51
35	BB	1498	C	C2-N3	6.05	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1748	C	C5-C6	6.05	1.39	1.34
35	BB	2259	U	C3'-O3'	6.05	1.50	1.42
1	AA	116	A	N9-C8	6.05	1.42	1.37
1	AA	367	U	C4-C5	6.05	1.49	1.43
1	AA	495	A	C4'-O4'	6.05	1.53	1.45
1	AA	768	A	C2'-C1'	-6.05	1.46	1.53
1	AA	1046	A	O3'-P	-6.05	1.53	1.61
35	BB	14	A	C4'-C3'	6.05	1.59	1.53
35	BB	180	G	C2-N3	6.05	1.37	1.32
35	BB	559	G	P-O5'	-6.05	1.53	1.59
35	BB	699	A	P-O5'	-6.05	1.53	1.59
35	BB	1187	G	P-O5'	6.05	1.65	1.59
35	BB	1938	A	C6-N6	6.05	1.38	1.33
35	BB	2087	G	C4'-O4'	6.05	1.53	1.45
35	BB	2369	A	C2'-C1'	-6.05	1.46	1.53
35	BB	2852	G	C5-C4	6.05	1.42	1.38
1	AA	354	G	C6-N1	6.05	1.43	1.39
1	AA	630	A	C6-N6	6.05	1.38	1.33
1	AA	705	G	C6-O6	-6.05	1.18	1.24
1	AA	1155	A	P-O5'	-6.05	1.53	1.59
35	BB	525	U	C4-C5	6.05	1.49	1.43
35	BB	720	U	P-O5'	-6.05	1.53	1.59
35	BB	1151	A	C8-N7	6.05	1.35	1.31
35	BB	1415	U	N1-C6	6.05	1.43	1.38
35	BB	1603	A	C8-N7	6.05	1.35	1.31
35	BB	2040	G	P-O5'	-6.05	1.53	1.59
35	BB	2050	C	C4'-C3'	-6.05	1.46	1.53
35	BB	2088	A	C2'-C1'	-6.05	1.46	1.53
1	AA	259	G	N1-C2	6.05	1.42	1.37
35	BB	207	A	N3-C4	-6.05	1.31	1.34
1	AA	611	C	N1-C6	-6.05	1.33	1.37
1	AA	986	U	O3'-P	-6.05	1.53	1.61
35	BB	1133	A	C4'-O4'	-6.05	1.37	1.45
35	BB	1143	A	C6-N1	6.05	1.39	1.35
35	BB	1317	G	N1-C2	6.05	1.42	1.37
35	BB	1549	A	C4'-C3'	-6.05	1.46	1.53
1	AA	890	G	C2'-C1'	-6.04	1.46	1.53
1	AA	1465	A	N9-C8	6.04	1.42	1.37
35	BB	163	C	O4'-C1'	6.04	1.49	1.41
35	BB	216	A	N7-C5	-6.04	1.35	1.39
1	AA	710	G	N9-C8	-6.04	1.33	1.37
1	AA	1028	C	C4'-C3'	6.04	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1035	A	C8-N7	-6.04	1.27	1.31
1	AA	1174	G	N1-C2	6.04	1.42	1.37
1	AA	1306	A	C2-N3	6.04	1.39	1.33
35	BB	1045	C	C5-C6	-6.04	1.29	1.34
35	BB	1834	U	C2'-C1'	6.04	1.59	1.53
35	BB	1927	A	C2'-C1'	-6.04	1.46	1.53
35	BB	2011	U	C5'-C4'	6.04	1.58	1.51
35	BB	2499	C	C5'-C4'	6.04	1.58	1.51
1	AA	719	C	C4-N4	6.04	1.39	1.33
35	BB	300	A	N9-C4	-6.04	1.34	1.37
35	BB	1399	C	N1-C6	-6.04	1.33	1.37
43	BJ	81	ILE	C-N	6.04	1.44	1.33
1	AA	280	C	C2'-C1'	6.04	1.59	1.53
1	AA	967	C	C2-N3	6.04	1.40	1.35
2	AB	212	TYR	CZ-OH	6.04	1.48	1.37
35	BB	897	C	C2-N3	6.04	1.40	1.35
35	BB	1109	C	C4-N4	6.04	1.39	1.33
35	BB	2837	A	N9-C4	6.04	1.41	1.37
1	AA	1113	C	C4'-O4'	6.04	1.53	1.45
1	AA	1146	A	N9-C8	-6.04	1.32	1.37
1	AA	1191	A	C6-N6	6.04	1.38	1.33
1	AA	1246	A	N7-C5	-6.04	1.35	1.39
34	BA	41	G	C5-C6	-6.04	1.36	1.42
35	BB	578	G	C5'-C4'	6.04	1.58	1.51
35	BB	614	A	C5-C6	-6.04	1.35	1.41
35	BB	655	A	N7-C5	-6.04	1.35	1.39
35	BB	933	A	C6-N1	6.04	1.39	1.35
35	BB	1176	U	C3'-C2'	6.04	1.59	1.52
35	BB	1269	A	C5'-C4'	6.04	1.58	1.51
35	BB	1648	U	N3-C4	6.04	1.43	1.38
35	BB	2089	C	C5-C6	-6.04	1.29	1.34
35	BB	2135	A	C6-N6	6.04	1.38	1.33
35	BB	2625	G	N1-C2	6.04	1.42	1.37
1	AA	1201	A	C6-N1	6.04	1.39	1.35
35	BB	308	G	N1-C2	6.04	1.42	1.37
35	BB	1235	G	C2-N2	6.04	1.40	1.34
35	BB	1361	G	C8-N7	6.04	1.34	1.30
35	BB	1695	G	N9-C8	-6.04	1.33	1.37
35	BB	2764	A	C3'-C2'	6.04	1.59	1.52
1	AA	159	G	C2-N2	6.04	1.40	1.34
1	AA	730	G	N9-C8	-6.04	1.33	1.37
1	AA	1013	G	N3-C4	-6.04	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1534	A	C6-N6	6.04	1.38	1.33
35	BB	722	A	C3'-O3'	6.04	1.50	1.42
35	BB	1170	C	C1'-N1	6.04	1.57	1.48
35	BB	1330	C	C4-C5	6.04	1.47	1.43
35	BB	1824	G	C2-N2	6.04	1.40	1.34
1	AA	187	G	C5'-C4'	6.03	1.58	1.51
1	AA	467	U	P-O5'	-6.03	1.53	1.59
1	AA	1268	G	C2-N3	6.03	1.37	1.32
1	AA	1465	A	O3'-P	-6.03	1.53	1.61
34	BA	99	A	N9-C4	-6.03	1.34	1.37
35	BB	1293	C	P-O5'	-6.03	1.53	1.59
35	BB	1317	G	P-O5'	-6.03	1.53	1.59
35	BB	2007	U	O4'-C1'	6.03	1.49	1.41
35	BB	2718	G	C2-N3	6.03	1.37	1.32
1	AA	155	A	N7-C5	-6.03	1.35	1.39
1	AA	1082	A	C6-N1	6.03	1.39	1.35
35	BB	770	G	C2-N2	6.03	1.40	1.34
35	BB	1829	A	C2'-C1'	-6.03	1.46	1.53
35	BB	2114	A	O3'-P	-6.03	1.53	1.61
35	BB	2370	G	C5-C4	6.03	1.42	1.38
35	BB	2538	C	N3-C4	6.03	1.38	1.33
34	BA	64	G	C8-N7	-6.03	1.27	1.30
35	BB	543	G	C5-C4	6.03	1.42	1.38
35	BB	650	C	C3'-C2'	6.03	1.59	1.52
35	BB	1139	G	C5'-C4'	6.03	1.58	1.51
35	BB	1232	G	C8-N7	-6.03	1.27	1.30
35	BB	1845	G	P-O5'	-6.03	1.53	1.59
35	BB	2003	A	P-O5'	-6.03	1.53	1.59
35	BB	2481	G	C2-N3	6.03	1.37	1.32
52	BS	92	ARG	CD-NE	6.03	1.56	1.46
30	B5	49	GLY	N-CA	6.03	1.55	1.46
35	BB	357	C	N1-C6	6.03	1.40	1.37
35	BB	504	A	N9-C4	6.03	1.41	1.37
35	BB	566	U	C5-C6	6.03	1.39	1.34
35	BB	948	C	C5-C6	-6.03	1.29	1.34
35	BB	1689	A	N1-C2	-6.03	1.28	1.34
35	BB	2441	U	C2'-C1'	6.03	1.59	1.53
1	AA	466	A	C2'-C1'	-6.03	1.46	1.53
1	AA	900	A	N7-C5	-6.03	1.35	1.39
35	BB	1142	A	C2-N3	-6.03	1.28	1.33
35	BB	1946	U	C5'-C4'	6.03	1.58	1.51
35	BB	1966	A	C6-N1	6.03	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2276	G	C8-N7	-6.03	1.27	1.30
1	AA	785	G	C2-N3	6.03	1.37	1.32
34	BA	73	A	C5-C4	-6.03	1.34	1.38
35	BB	1679	A	C3'-C2'	6.03	1.59	1.52
1	AA	330	C	C3'-C2'	6.02	1.59	1.52
1	AA	882	C	C4-C5	6.02	1.47	1.43
1	AA	1191	A	N9-C4	-6.02	1.34	1.37
34	BA	94	A	C8-N7	-6.02	1.27	1.31
35	BB	976	G	O3'-P	-6.02	1.53	1.61
1	AA	10	A	C2'-C1'	-6.02	1.46	1.53
11	AK	54	SER	CA-CB	6.02	1.61	1.52
35	BB	251	A	N3-C4	6.02	1.38	1.34
35	BB	901	C	C4-N4	6.02	1.39	1.33
35	BB	1149	G	C5-C4	6.02	1.42	1.38
35	BB	1376	C	N3-C4	6.02	1.38	1.33
35	BB	1579	A	C6-N1	6.02	1.39	1.35
35	BB	1784	A	N3-C4	-6.02	1.31	1.34
35	BB	2146	C	C4-N4	6.02	1.39	1.33
35	BB	2540	C	N1-C6	6.02	1.40	1.37
35	BB	2800	A	C5-C4	-6.02	1.34	1.38
35	BB	33	C	C5'-C4'	6.02	1.58	1.51
35	BB	355	U	C5-C6	6.02	1.39	1.34
35	BB	1839	G	C4'-C3'	-6.02	1.46	1.53
1	AA	1382	C	N1-C6	6.02	1.40	1.37
35	BB	1623	G	C6-N1	6.02	1.43	1.39
35	BB	2262	U	C2-N3	6.02	1.42	1.37
35	BB	626	A	N1-C2	-6.02	1.28	1.34
35	BB	1285	A	N9-C8	6.02	1.42	1.37
35	BB	1880	U	N1-C2	-6.02	1.33	1.38
35	BB	2174	C	N1-C6	6.02	1.40	1.37
35	BB	2252	G	C2-N3	6.02	1.37	1.32
1	AA	254	G	C3'-O3'	6.02	1.50	1.42
1	AA	1288	A	C6-N6	6.02	1.38	1.33
35	BB	666	A	C2-N3	6.02	1.39	1.33
35	BB	2384	U	C4-O4	6.02	1.28	1.23
35	BB	2672	U	C2'-C1'	-6.02	1.46	1.53
1	AA	247	G	C6-N1	-6.01	1.35	1.39
1	AA	1030	U	N3-C4	6.01	1.43	1.38
35	BB	395	U	C2-N3	6.01	1.42	1.37
35	BB	1080	A	N9-C4	6.01	1.41	1.37
35	BB	1642	G	C2'-O2'	6.01	1.49	1.41
35	BB	1657	U	N1-C6	-6.01	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1949	G	C2-N3	6.01	1.37	1.32
35	BB	2128	G	N3-C4	6.01	1.39	1.35
35	BB	745	G	N3-C4	-6.01	1.31	1.35
35	BB	1084	A	N7-C5	-6.01	1.35	1.39
1	AA	680	C	N1-C6	6.01	1.40	1.37
1	AA	984	C	O4'-C1'	6.01	1.49	1.41
35	BB	250	G	C8-N7	-6.01	1.27	1.30
35	BB	306	U	C2'-C1'	-6.01	1.46	1.53
35	BB	813	U	C2'-C1'	-6.01	1.46	1.53
35	BB	1130	U	N1-C2	-6.01	1.33	1.38
35	BB	1231	U	C4'-C3'	-6.01	1.46	1.53
35	BB	1353	A	O3'-P	-6.01	1.53	1.61
35	BB	2270	A	C5-C4	6.01	1.43	1.38
1	AA	438	U	O4'-C1'	-6.01	1.33	1.41
1	AA	510	A	C6-N1	6.01	1.39	1.35
1	AA	818	G	O3'-P	-6.01	1.53	1.61
35	BB	278	A	N9-C4	6.01	1.41	1.37
35	BB	892	A	N7-C5	-6.01	1.35	1.39
35	BB	2435	A	C1'-N9	-6.01	1.38	1.46
35	BB	385	C	N1-C6	6.01	1.40	1.37
35	BB	538	A	C2'-C1'	-6.01	1.46	1.53
35	BB	1401	G	N9-C4	6.01	1.42	1.38
1	AA	274	A	C6-N1	6.01	1.39	1.35
1	AA	1432	G	C6-N1	-6.01	1.35	1.39
14	AN	8	ARG	NE-CZ	6.01	1.40	1.33
35	BB	228	C	C4'-C3'	6.01	1.59	1.53
35	BB	866	A	C8-N7	6.01	1.35	1.31
35	BB	1351	C	C2'-C1'	-6.01	1.46	1.53
35	BB	2223	G	P-O5'	-6.01	1.53	1.59
35	BB	2311	A	N7-C5	6.01	1.42	1.39
35	BB	2662	A	C2'-C1'	-6.01	1.46	1.53
1	AA	226	G	N9-C8	-6.00	1.33	1.37
1	AA	1459	G	C2-N3	6.00	1.37	1.32
35	BB	303	G	C2-N2	6.00	1.40	1.34
35	BB	721	A	O4'-C1'	-6.00	1.33	1.41
35	BB	1310	G	C5'-C4'	6.00	1.58	1.51
35	BB	1717	A	C6-N6	6.00	1.38	1.33
35	BB	2562	U	N1-C2	6.00	1.44	1.38
35	BB	2708	G	N9-C8	6.00	1.42	1.37
40	BG	151	ARG	NE-CZ	6.00	1.40	1.33
35	BB	608	A	N9-C4	6.00	1.41	1.37
35	BB	1689	A	C6-N1	6.00	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1773	A	C2'-C1'	-6.00	1.46	1.53
35	BB	2498	C	N1-C6	-6.00	1.33	1.37
1	AA	13	U	C3'-C2'	6.00	1.59	1.52
1	AA	147	G	C4'-C3'	6.00	1.59	1.53
1	AA	400	C	C2'-C1'	-6.00	1.46	1.53
1	AA	603	U	N1-C6	6.00	1.43	1.38
35	BB	433	C	N3-C4	6.00	1.38	1.33
35	BB	825	A	C4'-C3'	6.00	1.59	1.53
35	BB	838	C	N1-C6	-6.00	1.33	1.37
35	BB	877	A	N9-C8	6.00	1.42	1.37
35	BB	1372	U	N3-C4	-6.00	1.33	1.38
35	BB	1423	G	N1-C2	6.00	1.42	1.37
35	BB	1466	U	N3-C4	6.00	1.43	1.38
35	BB	1638	C	O3'-P	-6.00	1.53	1.61
35	BB	2458	G	C5-C4	6.00	1.42	1.38
35	BB	2557	G	C8-N7	6.00	1.34	1.30
35	BB	2620	C	C2-N3	-6.00	1.30	1.35
52	BS	108	SER	CA-CB	6.00	1.61	1.52
1	AA	392	C	C4-N4	6.00	1.39	1.33
1	AA	872	A	C2'-C1'	-6.00	1.46	1.53
35	BB	2189	U	P-O5'	-6.00	1.53	1.59
1	AA	18	C	P-O5'	-6.00	1.53	1.59
1	AA	388	G	C8-N7	6.00	1.34	1.30
1	AA	535	A	N9-C8	6.00	1.42	1.37
1	AA	1102	A	C6-N1	6.00	1.39	1.35
34	BA	50	A	N7-C5	-6.00	1.35	1.39
35	BB	503	A	C2'-C1'	-6.00	1.46	1.53
35	BB	738	G	C2'-C1'	-6.00	1.46	1.53
1	AA	350	G	O3'-P	-6.00	1.53	1.61
34	BA	81	G	C6-N1	-6.00	1.35	1.39
35	BB	33	C	C2-N3	6.00	1.40	1.35
35	BB	477	A	C5-C4	6.00	1.43	1.38
35	BB	654	A	C6-N1	6.00	1.39	1.35
35	BB	799	G	C3'-C2'	-6.00	1.46	1.52
35	BB	805	G	C2-N3	6.00	1.37	1.32
35	BB	1359	A	N1-C2	-6.00	1.28	1.34
35	BB	1800	C	C2-O2	6.00	1.29	1.24
35	BB	2254	C	C4-N4	6.00	1.39	1.33
35	BB	2632	A	C6-N6	6.00	1.38	1.33
16	AP	68	SER	CA-CB	6.00	1.61	1.52
35	BB	1508	A	C5-C4	6.00	1.43	1.38
35	BB	1780	A	C6-N1	6.00	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1848	A	N7-C5	-6.00	1.35	1.39
1	AA	920	U	C2'-C1'	-5.99	1.46	1.53
1	AA	1523	G	C8-N7	-5.99	1.27	1.30
35	BB	107	G	N3-C4	-5.99	1.31	1.35
35	BB	320	A	C2'-C1'	-5.99	1.46	1.53
35	BB	438	G	C5-C4	5.99	1.42	1.38
35	BB	441	U	C4-O4	-5.99	1.18	1.23
35	BB	449	A	N7-C5	-5.99	1.35	1.39
35	BB	965	C	C3'-C2'	-5.99	1.46	1.52
35	BB	1212	G	O3'-P	-5.99	1.53	1.61
35	BB	1692	U	C2-O2	5.99	1.27	1.22
35	BB	2119	A	N1-C2	5.99	1.39	1.34
35	BB	2516	A	C2'-C1'	-5.99	1.46	1.53
1	AA	1019	A	C6-N1	5.99	1.39	1.35
35	BB	1433	A	C8-N7	-5.99	1.27	1.31
35	BB	1666	G	O3'-P	-5.99	1.53	1.61
35	BB	1965	C	O3'-P	-5.99	1.53	1.61
35	BB	2099	U	N3-C4	5.99	1.43	1.38
1	AA	807	A	C4'-C3'	5.99	1.59	1.53
1	AA	995	C	C4-C5	-5.99	1.38	1.43
1	AA	1001	C	N1-C6	5.99	1.40	1.37
1	AA	1047	G	C2'-C1'	-5.99	1.46	1.53
35	BB	1230	A	C2'-C1'	-5.99	1.46	1.53
35	BB	1364	G	C2-N2	5.99	1.40	1.34
35	BB	1548	A	C5-C4	-5.99	1.34	1.38
35	BB	1776	G	C5-C4	5.99	1.42	1.38
1	AA	719	C	C2'-C1'	-5.99	1.46	1.53
1	AA	1169	A	N9-C4	-5.99	1.34	1.37
2	AB	107	ARG	CD-NE	5.99	1.56	1.46
34	BA	99	A	N7-C5	-5.99	1.35	1.39
35	BB	279	A	C4'-C3'	5.99	1.59	1.53
35	BB	439	A	C6-N6	5.99	1.38	1.33
35	BB	943	A	C6-N6	5.99	1.38	1.33
35	BB	1505	A	N3-C4	-5.99	1.31	1.34
35	BB	2159	G	N9-C4	5.99	1.42	1.38
35	BB	2848	G	N3-C4	5.99	1.39	1.35
35	BB	135	U	C2'-C1'	5.99	1.59	1.53
35	BB	138	U	N1-C6	-5.99	1.32	1.38
35	BB	195	A	C5-C4	-5.99	1.34	1.38
35	BB	884	U	P-O5'	-5.99	1.53	1.59
35	BB	1845	G	C5-C6	-5.99	1.36	1.42
35	BB	2308	G	N9-C8	5.99	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2360	G	C2-N3	5.99	1.37	1.32
35	BB	2530	A	C6-N1	5.99	1.39	1.35
35	BB	2678	C	C5'-C4'	5.99	1.58	1.51
46	BM	44	ARG	NE-CZ	5.99	1.40	1.33
1	AA	743	A	N9-C8	5.99	1.42	1.37
1	AA	799	G	C6-O6	-5.99	1.18	1.24
1	AA	872	A	C2-N3	5.99	1.39	1.33
1	AA	1517	G	N3-C4	-5.99	1.31	1.35
35	BB	449	A	N3-C4	-5.99	1.31	1.34
35	BB	861	A	C4'-C3'	-5.99	1.46	1.52
35	BB	1150	C	N1-C6	5.99	1.40	1.37
35	BB	1468	U	N3-C4	5.99	1.43	1.38
35	BB	1581	G	N1-C2	5.99	1.42	1.37
35	BB	2270	A	C4'-C3'	-5.99	1.46	1.52
35	BB	2411	A	N7-C5	-5.99	1.35	1.39
35	BB	2679	A	C8-N7	-5.99	1.27	1.31
35	BB	2861	U	C5-C6	-5.99	1.28	1.34
1	AA	1211	U	C2-N3	5.98	1.42	1.37
35	BB	1483	G	C2-N2	5.98	1.40	1.34
35	BB	2335	A	C3'-C2'	-5.98	1.46	1.52
1	AA	216	U	C3'-C2'	-5.98	1.46	1.52
1	AA	381	C	O3'-P	-5.98	1.53	1.61
1	AA	508	U	C2'-C1'	-5.98	1.46	1.53
5	AE	92	ARG	CD-NE	5.98	1.56	1.46
34	BA	36	C	N1-C2	5.98	1.46	1.40
35	BB	642	U	N3-C4	5.98	1.43	1.38
35	BB	1219	U	C4-O4	5.98	1.28	1.23
35	BB	1734	G	C6-N1	5.98	1.43	1.39
1	AA	81	A	N7-C5	-5.98	1.35	1.39
1	AA	200	G	C8-N7	5.98	1.34	1.30
35	BB	54	G	C2-N2	5.98	1.40	1.34
35	BB	1638	C	O4'-C1'	5.98	1.49	1.41
1	AA	174	A	N9-C4	-5.98	1.34	1.37
1	AA	249	U	N3-C4	5.98	1.43	1.38
35	BB	425	G	N1-C2	5.98	1.42	1.37
35	BB	1436	G	N9-C4	5.98	1.42	1.38
35	BB	1989	G	C3'-O3'	5.98	1.50	1.42
1	AA	105	G	C5-C4	-5.98	1.34	1.38
1	AA	117	G	C5-C4	-5.98	1.34	1.38
1	AA	782	A	P-O5'	-5.98	1.53	1.59
12	AL	35	ARG	NE-CZ	5.98	1.40	1.33
35	BB	1334	G	N7-C5	-5.98	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1858	A	N1-C2	5.98	1.39	1.34
35	BB	2437	G	C2'-C1'	-5.98	1.46	1.53
35	BB	77	G	C5'-C4'	5.98	1.58	1.51
35	BB	1625	C	C4-N4	5.98	1.39	1.33
35	BB	2353	G	N3-C4	-5.98	1.31	1.35
35	BB	2542	A	C6-N1	5.98	1.39	1.35
1	AA	46	G	O3'-P	-5.97	1.53	1.61
1	AA	128	G	O3'-P	-5.97	1.53	1.61
1	AA	180	U	C3'-O3'	5.97	1.50	1.42
1	AA	882	C	P-O5'	5.97	1.65	1.59
1	AA	1074	G	C6-N1	-5.97	1.35	1.39
1	AA	1138	G	C6-O6	-5.97	1.18	1.24
1	AA	1357	A	C5-C6	-5.97	1.35	1.41
35	BB	1418	G	C4'-C3'	5.97	1.59	1.53
35	BB	1482	G	N1-C2	5.97	1.42	1.37
35	BB	1957	C	C2-N3	-5.97	1.30	1.35
35	BB	2256	G	O4'-C1'	5.97	1.49	1.41
1	AA	152	A	N7-C5	-5.97	1.35	1.39
1	AA	734	G	N3-C4	-5.97	1.31	1.35
1	AA	769	G	C2-N2	5.97	1.40	1.34
1	AA	931	C	N1-C6	5.97	1.40	1.37
1	AA	973	G	N1-C2	5.97	1.42	1.37
1	AA	1189	U	C4'-O4'	-5.97	1.37	1.45
35	BB	627	A	N9-C4	-5.97	1.34	1.37
35	BB	1277	G	C2'-C1'	-5.97	1.46	1.53
35	BB	1796	U	N1-C6	-5.97	1.32	1.38
35	BB	1972	G	C6-N1	5.97	1.43	1.39
35	BB	2638	G	N1-C2	5.97	1.42	1.37
35	BB	411	G	N9-C8	-5.97	1.33	1.37
35	BB	1346	G	P-O5'	-5.97	1.53	1.59
35	BB	2827	C	C4-C5	5.97	1.47	1.43
1	AA	99	C	N3-C4	5.97	1.38	1.33
1	AA	381	C	C4'-C3'	5.97	1.59	1.53
1	AA	469	C	P-O5'	-5.97	1.53	1.59
1	AA	547	A	N3-C4	-5.97	1.31	1.34
1	AA	1176	A	C3'-O3'	5.97	1.50	1.42
1	AA	1333	A	C5'-C4'	5.97	1.58	1.51
1	AA	1359	C	P-O5'	-5.97	1.53	1.59
35	BB	485	C	N3-C4	5.97	1.38	1.33
35	BB	1410	G	P-O5'	-5.97	1.53	1.59
35	BB	1632	A	N1-C2	-5.97	1.28	1.34
35	BB	1737	G	N9-C8	5.97	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2392	A	N7-C5	-5.97	1.35	1.39
1	AA	967	C	C2'-C1'	5.97	1.59	1.53
35	BB	261	G	C4'-C3'	-5.97	1.46	1.52
35	BB	930	G	N9-C4	-5.97	1.33	1.38
35	BB	958	U	C4-C5	5.97	1.49	1.43
35	BB	1112	G	O3'-P	-5.97	1.53	1.61
1	AA	639	G	N3-C4	-5.97	1.31	1.35
1	AA	652	U	C2'-C1'	-5.97	1.46	1.53
1	AA	856	C	C2'-C1'	-5.97	1.46	1.53
35	BB	929	U	C2'-C1'	-5.97	1.46	1.53
35	BB	960	A	N7-C5	-5.97	1.35	1.39
35	BB	1119	U	C3'-O3'	5.97	1.50	1.42
35	BB	2286	G	N7-C5	5.97	1.42	1.39
35	BB	2773	C	N1-C6	-5.97	1.33	1.37
44	BK	64	ARG	NE-CZ	5.97	1.40	1.33
1	AA	127	G	C3'-O3'	5.96	1.50	1.42
1	AA	326	G	C4'-C3'	-5.96	1.46	1.52
1	AA	417	G	C2-N2	5.96	1.40	1.34
1	AA	1417	G	N1-C2	5.96	1.42	1.37
35	BB	2153	C	P-O5'	-5.96	1.53	1.59
35	BB	2692	G	C2-N2	5.96	1.40	1.34
1	AA	1052	U	N3-C4	5.96	1.43	1.38
35	BB	1385	A	N1-C2	-5.96	1.28	1.34
35	BB	1418	G	C2-N3	5.96	1.37	1.32
35	BB	2025	C	C2'-C1'	-5.96	1.46	1.53
35	BB	2483	C	C3'-O3'	-5.96	1.33	1.42
35	BB	2898	U	C2-N3	5.96	1.42	1.37
1	AA	110	C	N3-C4	5.96	1.38	1.33
1	AA	485	U	C2-N3	5.96	1.42	1.37
1	AA	654	G	C5'-C4'	5.96	1.58	1.51
1	AA	1012	A	C3'-O3'	5.96	1.50	1.42
1	AA	1468	A	O3'-P	-5.96	1.53	1.61
35	BB	288	U	C3'-C2'	5.96	1.59	1.52
35	BB	1471	G	C1'-N9	-5.96	1.38	1.46
35	BB	1692	U	C5'-C4'	5.96	1.58	1.51
35	BB	1767	G	C4'-O4'	5.96	1.53	1.45
35	BB	2146	C	C1'-N1	5.96	1.57	1.48
35	BB	2416	C	O4'-C1'	-5.96	1.33	1.41
1	AA	889	A	C5'-C4'	5.96	1.58	1.51
1	AA	1349	A	C3'-C2'	-5.96	1.46	1.52
35	BB	1550	C	N1-C6	5.96	1.40	1.37
35	BB	1846	G	C5-C4	-5.96	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	309	A	C5-C4	5.96	1.43	1.38
1	AA	466	A	C6-N6	5.96	1.38	1.33
1	AA	703	G	C8-N7	5.96	1.34	1.30
1	AA	718	A	P-O5'	-5.96	1.53	1.59
1	AA	1282	C	C4-C5	5.96	1.47	1.43
34	BA	17	C	C3'-C2'	5.96	1.59	1.52
35	BB	298	G	C3'-O3'	5.96	1.50	1.42
35	BB	842	U	O3'-P	-5.96	1.53	1.61
35	BB	1543	G	C2-N2	5.96	1.40	1.34
35	BB	1853	A	C6-N6	5.96	1.38	1.33
35	BB	2058	A	C3'-C2'	5.96	1.59	1.52
35	BB	2261	C	C4-N4	5.96	1.39	1.33
35	BB	2677	G	C2-N3	5.96	1.37	1.32
1	AA	821	G	C5-C4	5.96	1.42	1.38
1	AA	1513	A	C8-N7	5.96	1.35	1.31
35	BB	53	A	C5-C6	-5.96	1.35	1.41
35	BB	544	C	C4-C5	5.96	1.47	1.43
35	BB	913	U	C4'-O4'	5.96	1.53	1.45
35	BB	1639	C	N1-C6	5.96	1.40	1.37
35	BB	2214	C	C4-C5	5.96	1.47	1.43
35	BB	2553	G	N9-C8	-5.96	1.33	1.37
1	AA	528	C	C2'-C1'	-5.96	1.46	1.53
22	AV	5	A	N1-C2	-5.96	1.28	1.34
35	BB	967	U	P-O5'	-5.96	1.53	1.59
35	BB	2770	G	C6-O6	5.96	1.29	1.24
1	AA	420	U	P-O5'	5.95	1.65	1.59
7	AG	84	TYR	CE1-CZ	5.95	1.46	1.38
34	BA	86	G	C6-N1	5.95	1.43	1.39
35	BB	333	G	C4'-C3'	5.95	1.59	1.53
35	BB	473	G	N7-C5	-5.95	1.35	1.39
35	BB	531	C	N1-C2	5.95	1.46	1.40
35	BB	1282	U	P-O5'	-5.95	1.53	1.59
35	BB	1617	C	C1'-N1	5.95	1.57	1.48
1	AA	778	G	C6-N1	5.95	1.43	1.39
1	AA	1022	A	P-O5'	-5.95	1.53	1.59
1	AA	1186	G	C2'-C1'	5.95	1.59	1.53
35	BB	1007	C	C2'-C1'	-5.95	1.46	1.53
35	BB	1255	U	C4'-C3'	5.95	1.59	1.53
35	BB	2160	C	N1-C2	-5.95	1.34	1.40
1	AA	364	A	N7-C5	-5.95	1.35	1.39
1	AA	786	G	N9-C4	5.95	1.42	1.38
1	AA	969	A	C2'-C1'	-5.95	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	971	G	C6-O6	-5.95	1.18	1.24
35	BB	1533	C	N1-C6	5.95	1.40	1.37
35	BB	1941	C	C3'-C2'	-5.95	1.46	1.52
35	BB	2428	G	N1-C2	5.95	1.42	1.37
35	BB	2844	G	P-O5'	-5.95	1.53	1.59
1	AA	831	A	C5-C4	5.95	1.43	1.38
1	AA	908	A	C6-N1	5.95	1.39	1.35
21	AU	46	ARG	NE-CZ	5.95	1.40	1.33
35	BB	327	G	C2'-C1'	-5.95	1.46	1.53
35	BB	574	A	N9-C8	-5.95	1.32	1.37
35	BB	2134	A	N7-C5	5.95	1.42	1.39
1	AA	8	A	C2'-C1'	-5.95	1.46	1.53
35	BB	1448	G	C5'-C4'	5.95	1.58	1.51
35	BB	1689	A	C5-C4	5.95	1.43	1.38
35	BB	1799	G	N3-C4	-5.95	1.31	1.35
35	BB	2054	A	C5-C6	-5.95	1.35	1.41
35	BB	784	G	N9-C8	-5.94	1.33	1.37
45	BL	11	GLY	CA-C	-5.94	1.42	1.51
47	BN	64	ARG	CZ-NH2	5.94	1.40	1.33
1	AA	38	G	C5'-C4'	5.94	1.58	1.51
1	AA	435	A	O3'-P	5.94	1.68	1.61
1	AA	825	A	N7-C5	-5.94	1.35	1.39
1	AA	1013	G	C5-C6	-5.94	1.36	1.42
1	AA	1433	A	N1-C2	5.94	1.39	1.34
35	BB	679	C	O3'-P	5.94	1.68	1.61
35	BB	968	C	C4'-C3'	5.94	1.59	1.53
35	BB	1215	G	C2-N3	5.94	1.37	1.32
35	BB	1419	A	N9-C4	-5.94	1.34	1.37
35	BB	1723	G	C5'-C4'	5.94	1.58	1.51
35	BB	2016	U	C5'-C4'	-5.94	1.44	1.51
35	BB	2451	A	C8-N7	-5.94	1.27	1.31
35	BB	2753	A	P-O5'	-5.94	1.53	1.59
1	AA	123	U	O3'-P	-5.94	1.54	1.61
1	AA	424	G	C5-C6	5.94	1.48	1.42
1	AA	575	G	C5-C4	-5.94	1.34	1.38
1	AA	871	U	C3'-C2'	-5.94	1.46	1.52
1	AA	977	A	P-O5'	-5.94	1.53	1.59
9	AI	40	ARG	CD-NE	5.94	1.56	1.46
34	BA	4	C	C4-C5	5.94	1.47	1.43
35	BB	535	G	C2'-C1'	-5.94	1.46	1.53
35	BB	1781	U	C4-C5	5.94	1.48	1.43
35	BB	1979	U	C2-N3	5.94	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2151	U	C2-N3	5.94	1.42	1.37
35	BB	370	G	O3'-P	-5.94	1.54	1.61
35	BB	776	G	N9-C8	-5.94	1.33	1.37
35	BB	1080	A	C4'-O4'	5.94	1.53	1.45
35	BB	1201	U	C4-O4	-5.94	1.18	1.23
1	AA	281	G	C5'-C4'	5.94	1.58	1.51
1	AA	477	C	C4-N4	5.94	1.39	1.33
1	AA	681	A	C5-C6	5.94	1.46	1.41
1	AA	815	A	C5'-C4'	5.94	1.58	1.51
1	AA	1126	U	C4-O4	5.94	1.28	1.23
1	AA	1200	C	C3'-O3'	5.94	1.50	1.42
1	AA	1267	C	C5'-C4'	5.94	1.58	1.51
35	BB	285	G	C1'-N9	-5.94	1.38	1.46
35	BB	569	U	C3'-O3'	5.94	1.50	1.42
35	BB	601	C	C4-N4	5.94	1.39	1.33
35	BB	603	A	C1'-N9	5.94	1.57	1.48
35	BB	612	G	O3'-P	-5.94	1.54	1.61
35	BB	1635	A	O3'-P	-5.94	1.54	1.61
35	BB	1776	G	C2'-C1'	-5.94	1.46	1.53
35	BB	2562	U	C4'-O4'	-5.94	1.37	1.45
1	AA	755	G	C3'-C2'	-5.94	1.46	1.52
1	AA	985	C	C2-N3	5.94	1.40	1.35
1	AA	1270	G	N9-C8	5.94	1.42	1.37
35	BB	572	A	C6-N1	5.94	1.39	1.35
35	BB	1055	G	N1-C2	5.94	1.42	1.37
1	AA	247	G	N1-C2	5.93	1.42	1.37
1	AA	343	U	C4-C5	5.93	1.48	1.43
1	AA	1404	C	C2'-O2'	-5.93	1.33	1.41
1	AA	1525	G	N1-C2	5.93	1.42	1.37
35	BB	945	A	C2-N3	5.93	1.38	1.33
35	BB	1371	G	C8-N7	5.93	1.34	1.30
35	BB	1503	A	O3'-P	-5.93	1.54	1.61
35	BB	2276	G	O3'-P	-5.93	1.54	1.61
35	BB	2693	G	N9-C4	-5.93	1.33	1.38
35	BB	2801	G	C3'-C2'	5.93	1.59	1.52
1	AA	159	G	O5'-C5'	5.93	1.53	1.44
1	AA	717	U	C3'-O3'	5.93	1.50	1.42
1	AA	1443	C	C3'-C2'	5.93	1.59	1.52
23	AX	19	A	C5'-C4'	5.93	1.58	1.51
35	BB	440	C	C4-C5	-5.93	1.38	1.43
35	BB	831	G	N1-C2	5.93	1.42	1.37
35	BB	851	C	N3-C4	5.93	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	976	G	N9-C8	5.93	1.42	1.37
35	BB	983	A	N9-C4	-5.93	1.34	1.37
35	BB	1813	G	C5-C4	-5.93	1.34	1.38
51	BR	92	TRP	CE3-CZ3	5.93	1.48	1.38
1	AA	153	C	N3-C4	5.93	1.38	1.33
1	AA	840	C	C4-N4	5.93	1.39	1.33
1	AA	1398	A	C6-N6	5.93	1.38	1.33
5	AE	53	ARG	CZ-NH1	5.93	1.40	1.33
9	AI	11	ARG	CZ-NH1	5.93	1.40	1.33
35	BB	359	G	C3'-C2'	-5.93	1.46	1.52
40	BG	93	TYR	CG-CD2	5.93	1.46	1.39
1	AA	569	C	C4'-C3'	-5.93	1.46	1.52
1	AA	794	A	C3'-C2'	-5.93	1.46	1.52
1	AA	932	C	N1-C6	5.93	1.40	1.37
34	BA	25	U	N1-C6	5.93	1.43	1.38
35	BB	1392	A	N7-C5	-5.93	1.35	1.39
35	BB	1758	U	N3-C4	5.93	1.43	1.38
35	BB	2854	G	N7-C5	-5.93	1.35	1.39
1	AA	567	G	P-O5'	-5.93	1.53	1.59
1	AA	621	A	C5-C6	5.93	1.46	1.41
35	BB	713	G	C2-N2	-5.93	1.28	1.34
35	BB	1179	G	C8-N7	-5.93	1.27	1.30
35	BB	1424	G	C6-N1	-5.93	1.35	1.39
35	BB	1487	U	C2-N3	5.93	1.41	1.37
35	BB	1797	G	O3'-P	-5.93	1.54	1.61
35	BB	1820	U	C5-C6	5.93	1.39	1.34
35	BB	1893	C	N3-C4	5.93	1.38	1.33
39	BF	113	PHE	CE2-CZ	5.93	1.48	1.37
1	AA	410	G	P-O5'	-5.93	1.53	1.59
1	AA	446	G	C8-N7	-5.93	1.27	1.30
1	AA	977	A	N3-C4	5.93	1.38	1.34
1	AA	1482	G	C8-N7	-5.93	1.27	1.30
35	BB	214	G	P-O5'	-5.93	1.53	1.59
35	BB	2524	G	N3-C4	5.93	1.39	1.35
1	AA	225	C	C2-N3	5.92	1.40	1.35
1	AA	665	A	C4'-C3'	-5.92	1.46	1.52
1	AA	682	G	O4'-C1'	-5.92	1.33	1.41
1	AA	1096	C	N1-C2	-5.92	1.34	1.40
1	AA	1232	U	C2'-C1'	-5.92	1.46	1.53
1	AA	1360	A	C8-N7	-5.92	1.27	1.31
35	BB	797	G	C5-C4	5.92	1.42	1.38
35	BB	998	C	C2-N3	5.92	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1015	U	C4'-O4'	5.92	1.53	1.45
35	BB	1162	G	C8-N7	-5.92	1.27	1.30
35	BB	1428	C	C4-C5	5.92	1.47	1.43
35	BB	2864	G	C6-N1	5.92	1.43	1.39
1	AA	241	G	C2-N3	5.92	1.37	1.32
1	AA	246	A	C8-N7	5.92	1.35	1.31
1	AA	306	A	O3'-P	-5.92	1.54	1.61
35	BB	51	G	C1'-N9	-5.92	1.38	1.46
35	BB	1057	A	C3'-O3'	5.92	1.50	1.42
35	BB	1193	G	C8-N7	5.92	1.34	1.30
35	BB	1345	C	C4-C5	5.92	1.47	1.43
35	BB	1354	A	C8-N7	-5.92	1.27	1.31
1	AA	124	C	N3-C4	5.92	1.38	1.33
1	AA	572	A	C6-N6	5.92	1.38	1.33
1	AA	1281	C	N3-C4	5.92	1.38	1.33
35	BB	2042	A	C6-N1	5.92	1.39	1.35
1	AA	1026	G	N9-C8	5.92	1.42	1.37
1	AA	1050	G	C3'-O3'	5.92	1.50	1.42
2	AB	207	ARG	CD-NE	5.92	1.56	1.46
35	BB	30	G	N3-C4	-5.92	1.31	1.35
35	BB	1259	G	N1-C2	5.92	1.42	1.37
35	BB	2252	G	C2-N2	5.92	1.40	1.34
51	BR	21	ARG	NE-CZ	5.92	1.40	1.33
1	AA	1004	A	C4'-C3'	5.92	1.59	1.53
1	AA	1392	G	O3'-P	-5.92	1.54	1.61
34	BA	84	G	C6-N1	-5.92	1.35	1.39
35	BB	117	G	C2-N3	5.92	1.37	1.32
35	BB	236	C	N3-C4	5.92	1.38	1.33
35	BB	376	G	C6-N1	5.92	1.43	1.39
35	BB	2323	G	C3'-C2'	-5.92	1.46	1.52
35	BB	2388	A	C5-C4	5.92	1.42	1.38
35	BB	2628	C	N3-C4	5.92	1.38	1.33
35	BB	2733	A	N3-C4	5.92	1.38	1.34
35	BB	2855	C	N3-C4	5.92	1.38	1.33
1	AA	524	G	C4'-C3'	5.92	1.59	1.53
1	AA	651	C	N3-C4	5.92	1.38	1.33
1	AA	1102	A	N7-C5	-5.92	1.35	1.39
1	AA	1138	G	C6-N1	5.92	1.43	1.39
35	BB	112	U	C4-C5	5.92	1.48	1.43
35	BB	503	A	C5'-C4'	5.92	1.58	1.51
35	BB	615	U	C5'-C4'	5.92	1.58	1.51
35	BB	680	C	C5'-C4'	5.92	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1114	C	C2-O2	5.92	1.29	1.24
35	BB	1177	G	C2'-C1'	-5.92	1.46	1.53
35	BB	1298	C	N3-C4	5.92	1.38	1.33
35	BB	1341	G	N7-C5	-5.92	1.35	1.39
35	BB	1444	G	C4'-C3'	-5.92	1.46	1.52
35	BB	2267	A	O4'-C1'	5.92	1.49	1.41
35	BB	2902	C	C5-C6	-5.92	1.29	1.34
35	BB	1	G	C2'-C1'	-5.92	1.46	1.53
35	BB	1438	U	C2-N3	5.92	1.41	1.37
35	BB	1496	A	C6-N6	5.92	1.38	1.33
35	BB	1558	C	O3'-P	-5.92	1.54	1.61
35	BB	2476	A	N9-C4	-5.92	1.34	1.37
1	AA	191	G	C2-N3	5.91	1.37	1.32
1	AA	607	A	N9-C4	-5.91	1.34	1.37
1	AA	1109	C	C4'-O4'	-5.91	1.37	1.45
34	BA	60	C	P-O5'	-5.91	1.53	1.59
35	BB	418	C	N3-C4	5.91	1.38	1.33
35	BB	638	G	N9-C4	-5.91	1.33	1.38
35	BB	1129	A	C4'-C3'	5.91	1.59	1.53
35	BB	1664	A	N9-C4	5.91	1.41	1.37
35	BB	1850	G	O3'-P	5.91	1.68	1.61
35	BB	2065	C	C4'-C3'	5.91	1.59	1.53
35	BB	2443	C	C2-O2	-5.91	1.19	1.24
35	BB	424	G	N1-C2	5.91	1.42	1.37
35	BB	452	G	C6-N1	5.91	1.43	1.39
35	BB	2777	G	C3'-O3'	5.91	1.50	1.42
1	AA	533	A	C8-N7	-5.91	1.27	1.31
1	AA	1039	G	N3-C4	5.91	1.39	1.35
35	BB	522	A	C6-N6	5.91	1.38	1.33
35	BB	757	G	N7-C5	-5.91	1.35	1.39
35	BB	2408	U	N1-C6	5.91	1.43	1.38
1	AA	102	G	C5-C4	-5.91	1.34	1.38
1	AA	520	A	P-O5'	-5.91	1.53	1.59
1	AA	892	A	C3'-C2'	-5.91	1.46	1.52
1	AA	1463	U	C2'-C1'	-5.91	1.46	1.53
34	BA	102	G	N7-C5	5.91	1.42	1.39
35	BB	187	G	N7-C5	5.91	1.42	1.39
35	BB	1137	G	C2-N2	-5.91	1.28	1.34
35	BB	1289	C	N3-C4	5.91	1.38	1.33
35	BB	1766	G	N3-C4	-5.91	1.31	1.35
35	BB	2196	C	C2-N3	5.91	1.40	1.35
1	AA	21	G	N7-C5	-5.91	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	174	A	C6-N6	5.91	1.38	1.33
1	AA	232	G	C2-N3	5.91	1.37	1.32
1	AA	264	C	O4'-C1'	5.91	1.49	1.41
1	AA	474	G	O3'-P	-5.91	1.54	1.61
35	BB	1941	C	O3'-P	-5.91	1.54	1.61
1	AA	765	G	C5-C4	5.91	1.42	1.38
1	AA	1329	A	C6-N1	5.91	1.39	1.35
3	AC	168	ARG	CZ-NH2	5.91	1.40	1.33
35	BB	16	C	N3-C4	5.91	1.38	1.33
35	BB	862	G	N7-C5	-5.91	1.35	1.39
35	BB	873	C	O4'-C1'	-5.91	1.33	1.41
35	BB	955	U	N3-C4	5.91	1.43	1.38
35	BB	1164	C	C4'-O4'	5.91	1.53	1.45
35	BB	2487	G	C2-N3	5.91	1.37	1.32
35	BB	2612	C	N1-C6	5.91	1.40	1.37
35	BB	2886	A	N9-C4	5.91	1.41	1.37
54	BU	95	PHE	CG-CD1	5.91	1.47	1.38
1	AA	153	C	C3'-C2'	-5.90	1.46	1.52
1	AA	723	U	O3'-P	-5.90	1.54	1.61
1	AA	1106	G	N7-C5	5.90	1.42	1.39
34	BA	78	A	C5'-C4'	5.90	1.58	1.51
35	BB	2482	A	C6-N6	5.90	1.38	1.33
35	BB	2783	U	P-O5'	-5.90	1.53	1.59
35	BB	806	C	C4-C5	5.90	1.47	1.43
35	BB	1480	C	O4'-C1'	5.90	1.49	1.41
35	BB	1932	A	N9-C4	5.90	1.41	1.37
35	BB	2301	C	N3-C4	5.90	1.38	1.33
1	AA	457	G	N3-C4	-5.90	1.31	1.35
1	AA	1252	A	N7-C5	-5.90	1.35	1.39
6	AF	25	TYR	CG-CD2	5.90	1.46	1.39
35	BB	213	A	C2'-C1'	-5.90	1.46	1.53
35	BB	216	A	C2'-C1'	-5.90	1.46	1.53
35	BB	348	A	N1-C2	5.90	1.39	1.34
35	BB	1068	G	N7-C5	5.90	1.42	1.39
35	BB	1512	C	C2'-C1'	5.90	1.59	1.53
35	BB	1695	G	C2'-C1'	-5.90	1.46	1.53
35	BB	2601	C	C3'-C2'	-5.90	1.46	1.52
35	BB	2694	G	N7-C5	-5.90	1.35	1.39
35	BB	2781	A	C4'-C3'	5.90	1.59	1.53
35	BB	2882	A	C2'-C1'	-5.90	1.46	1.53
1	AA	1335	U	N3-C4	5.90	1.43	1.38
35	BB	40	U	C5'-C4'	5.90	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	846	U	N3-C4	5.90	1.43	1.38
35	BB	1103	A	O4'-C1'	-5.90	1.33	1.41
1	AA	380	G	C6-N1	5.90	1.43	1.39
34	BA	34	A	C6-N6	5.90	1.38	1.33
35	BB	104	A	C4'-O4'	5.90	1.53	1.45
35	BB	372	G	O3'-P	-5.90	1.54	1.61
35	BB	744	U	C3'-C2'	-5.90	1.46	1.52
35	BB	1083	U	C2'-C1'	-5.90	1.46	1.53
35	BB	1282	U	C2'-C1'	-5.90	1.46	1.53
35	BB	1665	A	N9-C4	5.90	1.41	1.37
35	BB	1677	A	C4'-O4'	-5.90	1.37	1.45
35	BB	1843	C	N1-C6	5.90	1.40	1.37
35	BB	2011	U	O3'-P	-5.90	1.54	1.61
1	AA	1133	G	P-O5'	5.90	1.65	1.59
34	BA	52	A	N7-C5	-5.90	1.35	1.39
35	BB	1823	G	C3'-O3'	5.90	1.50	1.42
34	BA	56	G	O3'-P	-5.89	1.54	1.61
35	BB	636	G	C8-N7	-5.89	1.27	1.30
35	BB	1282	U	C4-C5	5.89	1.48	1.43
35	BB	1560	G	N1-C2	5.89	1.42	1.37
35	BB	1700	A	C6-N1	5.89	1.39	1.35
35	BB	1839	G	N1-C2	5.89	1.42	1.37
35	BB	1870	C	C4-C5	5.89	1.47	1.43
35	BB	2499	C	N1-C6	-5.89	1.33	1.37
1	AA	1322	C	C5'-C4'	5.89	1.58	1.51
35	BB	418	C	N1-C6	5.89	1.40	1.37
35	BB	453	A	N9-C8	-5.89	1.33	1.37
35	BB	767	U	C2'-O2'	5.89	1.49	1.41
35	BB	872	U	C1'-N1	5.89	1.57	1.48
35	BB	1490	A	O3'-P	-5.89	1.54	1.61
55	BW	11	GLU	CD-OE1	5.89	1.32	1.25
35	BB	41	C	N3-C4	5.89	1.38	1.33
35	BB	903	C	C4-C5	5.89	1.47	1.43
35	BB	1423	G	C3'-C2'	-5.89	1.46	1.52
1	AA	88	U	N1-C6	-5.89	1.32	1.38
1	AA	399	G	C2-N3	5.89	1.37	1.32
1	AA	1078	U	N3-C4	5.89	1.43	1.38
35	BB	207	A	C5'-C4'	5.89	1.58	1.51
35	BB	1830	C	P-O5'	-5.89	1.53	1.59
35	BB	2331	G	C2-N3	5.89	1.37	1.32
1	AA	131	A	N9-C4	5.89	1.41	1.37
1	AA	560	A	N9-C4	5.89	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	831	A	C4'-C3'	5.89	1.59	1.53
1	AA	1129	C	O3'-P	-5.89	1.54	1.61
34	BA	50	A	C2'-C1'	-5.89	1.46	1.53
35	BB	804	A	N9-C8	5.89	1.42	1.37
35	BB	2049	G	C8-N7	5.89	1.34	1.30
1	AA	21	G	C8-N7	-5.89	1.27	1.30
1	AA	305	G	C5-C4	5.89	1.42	1.38
1	AA	810	C	N3-C4	5.89	1.38	1.33
1	AA	905	U	N1-C6	5.89	1.43	1.38
1	AA	1350	A	N9-C8	5.89	1.42	1.37
35	BB	651	G	O3'-P	-5.89	1.54	1.61
35	BB	881	G	C2-N3	5.89	1.37	1.32
35	BB	938	G	C6-O6	-5.89	1.18	1.24
35	BB	2141	G	N3-C4	-5.89	1.31	1.35
35	BB	2585	U	N3-C4	5.89	1.43	1.38
1	AA	149	A	N1-C2	5.88	1.39	1.34
1	AA	927	G	C5-C6	-5.88	1.36	1.42
35	BB	379	G	C2-N3	5.88	1.37	1.32
35	BB	2374	C	C4-N4	5.88	1.39	1.33
35	BB	2463	C	C2'-C1'	-5.88	1.46	1.53
1	AA	352	C	C5'-C4'	5.88	1.58	1.51
1	AA	845	A	N7-C5	-5.88	1.35	1.39
1	AA	1211	U	C4'-O4'	-5.88	1.38	1.45
35	BB	58	G	C4'-O4'	-5.88	1.38	1.45
35	BB	1026	G	N9-C8	5.88	1.42	1.37
1	AA	456	A	N7-C5	-5.88	1.35	1.39
1	AA	1507	A	C6-N1	5.88	1.39	1.35
5	AE	126	ALA	CA-CB	5.88	1.64	1.52
35	BB	242	G	C8-N7	-5.88	1.27	1.30
35	BB	834	G	N9-C8	5.88	1.42	1.37
35	BB	1096	A	C6-N1	5.88	1.39	1.35
35	BB	2320	U	N3-C4	5.88	1.43	1.38
1	AA	1028	C	C4-N4	5.88	1.39	1.33
35	BB	1674	G	C8-N7	-5.88	1.27	1.30
35	BB	2295	C	C4-N4	5.88	1.39	1.33
35	BB	2644	G	C2-N3	5.88	1.37	1.32
35	BB	2709	G	N9-C8	5.88	1.42	1.37
1	AA	162	A	C2'-C1'	-5.88	1.46	1.53
1	AA	1169	A	C6-N6	5.88	1.38	1.33
1	AA	1451	U	C4'-C3'	-5.88	1.46	1.52
35	BB	126	A	O3'-P	-5.88	1.54	1.61
35	BB	201	C	N3-C4	5.88	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	310	A	C6-N1	5.88	1.39	1.35
35	BB	402	A	N1-C2	5.88	1.39	1.34
35	BB	435	C	O3'-P	-5.88	1.54	1.61
35	BB	711	G	N1-C2	5.88	1.42	1.37
35	BB	1193	G	N1-C2	5.88	1.42	1.37
35	BB	1825	U	N1-C6	-5.88	1.32	1.38
35	BB	2422	C	P-O5'	-5.88	1.53	1.59
39	BF	147	ARG	CA-CB	5.88	1.66	1.53
1	AA	318	G	O4'-C1'	5.88	1.49	1.41
1	AA	401	C	N3-C4	5.88	1.38	1.33
1	AA	1181	G	C5'-C4'	5.88	1.58	1.51
1	AA	1192	C	C2'-C1'	-5.88	1.46	1.53
35	BB	287	G	N9-C8	5.88	1.42	1.37
35	BB	1210	G	N1-C2	5.88	1.42	1.37
35	BB	1254	A	C8-N7	-5.88	1.27	1.31
35	BB	1269	A	N3-C4	-5.88	1.31	1.34
35	BB	2207	C	C5'-C4'	5.88	1.58	1.51
35	BB	2233	U	C1'-N1	5.88	1.57	1.48
35	BB	2298	A	C5'-C4'	5.88	1.58	1.51
35	BB	2399	G	C4'-C3'	5.88	1.59	1.53
35	BB	2768	U	C1'-N1	5.88	1.57	1.48
1	AA	1037	C	C3'-O3'	5.88	1.50	1.42
31	B6	14	ARG	NE-CZ	5.88	1.40	1.33
35	BB	287	G	O3'-P	-5.88	1.54	1.61
35	BB	1292	G	N3-C4	-5.88	1.31	1.35
35	BB	1342	A	N3-C4	-5.88	1.31	1.34
35	BB	2063	C	N1-C6	-5.88	1.33	1.37
51	BR	88	GLY	N-CA	-5.88	1.37	1.46
1	AA	769	G	N3-C4	-5.87	1.31	1.35
7	AG	138	GLU	CG-CD	-5.87	1.43	1.51
34	BA	41	G	C5'-C4'	5.87	1.58	1.51
35	BB	251	A	C8-N7	5.87	1.35	1.31
35	BB	585	G	N3-C4	-5.87	1.31	1.35
35	BB	831	G	C3'-O3'	5.87	1.50	1.42
35	BB	1085	A	N9-C8	-5.87	1.33	1.37
35	BB	1192	G	C5-C6	-5.87	1.36	1.42
35	BB	1329	U	C3'-O3'	5.87	1.50	1.42
1	AA	321	A	N9-C8	5.87	1.42	1.37
1	AA	539	A	N7-C5	-5.87	1.35	1.39
1	AA	1064	G	N9-C8	5.87	1.42	1.37
7	AG	91	ARG	CZ-NH1	5.87	1.40	1.33
12	AL	116	TYR	C-N	5.87	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	76	C	C2-N3	5.87	1.40	1.35
35	BB	787	C	C4-C5	5.87	1.47	1.43
35	BB	885	C	O3'-P	-5.87	1.54	1.61
35	BB	1670	C	C4'-C3'	-5.87	1.46	1.52
35	BB	1982	U	C4'-O4'	-5.87	1.38	1.45
35	BB	2130	U	N3-C4	5.87	1.43	1.38
35	BB	2529	G	C6-O6	-5.87	1.18	1.24
35	BB	2896	C	C5-C6	-5.87	1.29	1.34
38	BE	79	ARG	NE-CZ	5.87	1.40	1.33
39	BF	127	TYR	CG-CD1	5.87	1.46	1.39
53	BT	80	TRP	CE3-CZ3	5.87	1.48	1.38
35	BB	1222	U	N1-C2	5.87	1.43	1.38
35	BB	1256	G	C2-N2	5.87	1.40	1.34
35	BB	1417	C	N1-C2	-5.87	1.34	1.40
35	BB	2084	C	C4-N4	5.87	1.39	1.33
35	BB	2551	C	P-O5'	-5.87	1.53	1.59
35	BB	2614	A	C5-C4	-5.87	1.34	1.38
35	BB	2711	A	C6-N1	5.87	1.39	1.35
35	BB	2773	C	N3-C4	5.87	1.38	1.33
1	AA	257	G	C2-N3	5.87	1.37	1.32
1	AA	1239	A	N1-C2	-5.87	1.29	1.34
1	AA	1309	G	N7-C5	-5.87	1.35	1.39
4	AD	80	ARG	CZ-NH1	5.87	1.40	1.33
35	BB	112	U	C4'-C3'	5.87	1.59	1.53
35	BB	114	U	O3'-P	-5.87	1.54	1.61
35	BB	257	C	N3-C4	5.87	1.38	1.33
35	BB	494	G	N9-C4	5.87	1.42	1.38
35	BB	767	U	C2'-C1'	-5.87	1.46	1.53
35	BB	1096	A	N1-C2	5.87	1.39	1.34
35	BB	1227	G	P-O5'	-5.87	1.53	1.59
35	BB	1268	A	N9-C8	-5.87	1.33	1.37
35	BB	1503	A	C3'-C2'	-5.87	1.46	1.52
35	BB	1856	U	C2'-C1'	-5.87	1.46	1.53
35	BB	1905	C	C2'-C1'	-5.87	1.46	1.53
35	BB	2276	G	C2'-C1'	-5.87	1.46	1.53
35	BB	2337	G	C2-N3	5.87	1.37	1.32
35	BB	2383	G	C2'-C1'	-5.87	1.46	1.53
35	BB	2532	G	N9-C4	-5.87	1.33	1.38
1	AA	1188	A	N7-C5	-5.87	1.35	1.39
34	BA	79	G	C8-N7	-5.87	1.27	1.30
35	BB	389	G	C5-C4	-5.87	1.34	1.38
35	BB	492	A	C6-N6	5.87	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2165	C	N3-C4	5.87	1.38	1.33
1	AA	36	C	O3'-P	-5.87	1.54	1.61
1	AA	248	C	O3'-P	-5.87	1.54	1.61
1	AA	984	C	C2'-C1'	-5.87	1.46	1.53
34	BA	105	G	C5-C4	-5.87	1.34	1.38
35	BB	1134	A	C6-N6	5.87	1.38	1.33
35	BB	1408	G	C5-C6	-5.87	1.36	1.42
35	BB	1673	G	N7-C5	-5.87	1.35	1.39
35	BB	1989	G	C5-C6	-5.87	1.36	1.42
35	BB	2110	G	C5'-C4'	5.87	1.58	1.51
35	BB	2177	C	C4-C5	5.87	1.47	1.43
35	BB	2331	G	N7-C5	-5.87	1.35	1.39
1	AA	168	G	C6-N1	5.86	1.43	1.39
1	AA	433	G	C4'-O4'	-5.86	1.38	1.45
1	AA	651	C	C2-O2	-5.86	1.19	1.24
34	BA	16	G	P-O5'	-5.86	1.53	1.59
35	BB	865	C	C2'-C1'	-5.86	1.47	1.53
35	BB	2164	C	C4-N4	5.86	1.39	1.33
35	BB	2266	A	N3-C4	-5.86	1.31	1.34
35	BB	2666	C	C2'-C1'	-5.86	1.46	1.53
1	AA	315	A	C8-N7	5.86	1.35	1.31
1	AA	650	G	C2'-C1'	-5.86	1.47	1.53
1	AA	1039	G	C2-N2	-5.86	1.28	1.34
35	BB	421	C	C2'-C1'	-5.86	1.47	1.53
35	BB	510	C	C2-O2	5.86	1.29	1.24
1	AA	781	A	C4'-C3'	-5.86	1.46	1.52
1	AA	819	A	C4'-C3'	5.86	1.59	1.53
1	AA	1092	A	N1-C2	5.86	1.39	1.34
35	BB	36	G	O3'-P	-5.86	1.54	1.61
35	BB	86	G	C5-C4	-5.86	1.34	1.38
35	BB	149	A	N3-C4	5.86	1.38	1.34
35	BB	862	G	N9-C4	5.86	1.42	1.38
35	BB	1076	C	C4-N4	5.86	1.39	1.33
35	BB	2058	A	N9-C4	-5.86	1.34	1.37
1	AA	141	G	N7-C5	-5.86	1.35	1.39
1	AA	179	A	C6-N6	5.86	1.38	1.33
35	BB	1203	U	N3-C4	5.86	1.43	1.38
38	BE	88	ARG	NE-CZ	5.86	1.40	1.33
1	AA	141	G	N3-C4	5.86	1.39	1.35
1	AA	239	U	N1-C6	5.86	1.43	1.38
1	AA	483	C	N3-C4	5.86	1.38	1.33
4	AD	181	PHE	CG-CD1	5.86	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	56	A	C2'-C1'	-5.86	1.47	1.53
35	BB	77	G	N9-C4	-5.86	1.33	1.38
35	BB	85	G	C5-C4	5.86	1.42	1.38
35	BB	676	A	C6-N1	-5.86	1.31	1.35
35	BB	1086	A	N7-C5	-5.86	1.35	1.39
35	BB	1165	A	N9-C4	-5.86	1.34	1.37
35	BB	1387	A	N7-C5	-5.86	1.35	1.39
35	BB	2862	G	C5-C4	5.86	1.42	1.38
1	AA	1099	G	N7-C5	-5.86	1.35	1.39
1	AA	1282	C	N1-C6	5.86	1.40	1.37
34	BA	64	G	N1-C2	5.86	1.42	1.37
35	BB	2244	U	N1-C2	-5.86	1.33	1.38
1	AA	72	A	C8-N7	-5.85	1.27	1.31
1	AA	458	U	C2-O2	5.85	1.27	1.22
1	AA	1134	G	C2-N2	5.85	1.40	1.34
13	AM	2	ARG	CD-NE	5.85	1.56	1.46
35	BB	809	G	C2-N3	-5.85	1.28	1.32
35	BB	1134	A	C3'-O3'	5.85	1.50	1.42
35	BB	1278	C	C4'-O4'	-5.85	1.38	1.45
35	BB	2261	C	C2'-C1'	-5.85	1.47	1.53
1	AA	812	G	C2-N3	5.85	1.37	1.32
7	AG	43	TYR	CD2-CE2	5.85	1.48	1.39
15	AO	52	ARG	CZ-NH2	5.85	1.40	1.33
35	BB	546	U	N1-C2	5.85	1.43	1.38
35	BB	1445	G	N7-C5	-5.85	1.35	1.39
35	BB	1447	C	N3-C4	5.85	1.38	1.33
35	BB	1643	G	C6-N1	-5.85	1.35	1.39
35	BB	2087	G	O3'-P	-5.85	1.54	1.61
35	BB	2242	G	C2-N2	5.85	1.40	1.34
35	BB	2640	G	N7-C5	-5.85	1.35	1.39
1	AA	145	G	N3-C4	-5.85	1.31	1.35
1	AA	282	A	P-O5'	-5.85	1.53	1.59
1	AA	552	U	O3'-P	-5.85	1.54	1.61
1	AA	823	C	C2-N3	5.85	1.40	1.35
1	AA	882	C	C3'-C2'	5.85	1.59	1.52
1	AA	1312	G	C2-N3	-5.85	1.28	1.32
33	B8	36	ARG	NE-CZ	5.85	1.40	1.33
35	BB	88	G	N9-C8	-5.85	1.33	1.37
35	BB	501	A	N3-C4	-5.85	1.31	1.34
35	BB	691	C	N3-C4	5.85	1.38	1.33
35	BB	953	G	C2-N3	5.85	1.37	1.32
35	BB	1311	G	C2-N2	5.85	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1993	U	N1-C2	5.85	1.43	1.38
1	AA	436	C	P-O5'	-5.85	1.53	1.59
1	AA	769	G	C5-C6	-5.85	1.36	1.42
1	AA	845	A	N3-C4	-5.85	1.31	1.34
15	AO	62	ARG	CZ-NH2	5.85	1.40	1.33
28	B3	15	ARG	CD-NE	5.85	1.56	1.46
35	BB	310	A	N7-C5	-5.85	1.35	1.39
35	BB	340	A	N9-C4	5.85	1.41	1.37
35	BB	726	G	N9-C8	-5.85	1.33	1.37
35	BB	1333	G	C5-C4	-5.85	1.34	1.38
35	BB	1367	A	N7-C5	-5.85	1.35	1.39
35	BB	2475	C	N1-C6	5.85	1.40	1.37
35	BB	2634	A	C5-C6	-5.85	1.35	1.41
39	BF	132	ARG	CZ-NH2	5.85	1.40	1.33
1	AA	219	U	C4'-O4'	-5.85	1.38	1.45
1	AA	643	C	P-O5'	5.85	1.65	1.59
1	AA	1174	G	C3'-O3'	5.85	1.50	1.42
1	AA	1408	A	O3'-P	-5.85	1.54	1.61
22	AV	5	A	C5-C6	5.85	1.46	1.41
35	BB	461	C	C4-N4	5.85	1.39	1.33
35	BB	1343	G	C2-N3	5.85	1.37	1.32
35	BB	1888	G	O4'-C1'	5.85	1.49	1.41
35	BB	2253	G	N7-C5	5.85	1.42	1.39
35	BB	2665	A	C5-C6	5.85	1.46	1.41
1	AA	219	U	N3-C4	5.85	1.43	1.38
1	AA	368	U	O4'-C1'	-5.85	1.34	1.41
1	AA	506	G	P-O5'	-5.85	1.53	1.59
35	BB	1715	G	C5'-C4'	5.85	1.58	1.51
35	BB	1782	U	C1'-N1	5.85	1.57	1.48
35	BB	2351	G	P-O5'	-5.85	1.53	1.59
1	AA	64	G	C5'-C4'	5.84	1.58	1.51
1	AA	521	G	N7-C5	5.84	1.42	1.39
1	AA	697	U	N3-C4	5.84	1.43	1.38
1	AA	815	A	N1-C2	-5.84	1.29	1.34
1	AA	1008	U	N3-C4	5.84	1.43	1.38
34	BA	99	A	C6-N6	5.84	1.38	1.33
35	BB	1228	G	C6-N1	5.84	1.43	1.39
35	BB	1515	A	C8-N7	-5.84	1.27	1.31
35	BB	1949	G	C1'-N9	5.84	1.57	1.48
35	BB	2001	C	C4-N4	5.84	1.39	1.33
35	BB	2842	G	C5-C4	-5.84	1.34	1.38
1	AA	292	G	C6-N1	5.84	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	529	A	C3'-C2'	5.84	1.59	1.52
35	BB	2206	C	C2'-C1'	-5.84	1.47	1.53
35	BB	2222	C	C2-N3	5.84	1.40	1.35
1	AA	384	G	N7-C5	-5.84	1.35	1.39
35	BB	862	G	C2'-C1'	-5.84	1.47	1.53
35	BB	1319	C	N1-C6	5.84	1.40	1.37
35	BB	1338	G	C8-N7	-5.84	1.27	1.30
35	BB	2029	G	C2'-C1'	-5.84	1.47	1.53
35	BB	2445	G	C2-N3	5.84	1.37	1.32
1	AA	122	G	N3-C4	5.84	1.39	1.35
1	AA	365	U	C1'-N1	5.84	1.57	1.48
1	AA	466	A	C4'-C3'	5.84	1.59	1.53
1	AA	688	G	N9-C8	-5.84	1.33	1.37
1	AA	991	U	C3'-O3'	5.84	1.50	1.42
1	AA	1085	U	C2'-C1'	-5.84	1.47	1.53
1	AA	1407	C	C5'-C4'	5.84	1.58	1.51
1	AA	1413	A	N9-C8	-5.84	1.33	1.37
35	BB	56	A	N3-C4	5.84	1.38	1.34
35	BB	1147	A	C2'-O2'	5.84	1.49	1.41
35	BB	2567	G	C2-N3	5.84	1.37	1.32
1	AA	307	C	C2-N3	5.84	1.40	1.35
34	BA	23	G	C5-C4	-5.84	1.34	1.38
35	BB	118	A	C2'-C1'	-5.84	1.47	1.53
35	BB	849	A	P-O5'	-5.84	1.53	1.59
35	BB	1877	A	C5-C6	-5.84	1.35	1.41
1	AA	884	U	P-O5'	-5.84	1.53	1.59
1	AA	1490	U	N1-C6	-5.84	1.32	1.38
3	AC	167	TYR	CA-CB	5.84	1.66	1.53
35	BB	237	C	C2'-C1'	-5.84	1.47	1.53
35	BB	530	G	N1-C2	5.84	1.42	1.37
35	BB	1217	U	N1-C2	-5.84	1.33	1.38
35	BB	2232	C	C4-C5	5.84	1.47	1.43
35	BB	2334	U	N3-C4	5.84	1.43	1.38
1	AA	618	C	N3-C4	5.83	1.38	1.33
1	AA	697	U	C4-C5	-5.83	1.38	1.43
1	AA	259	G	C3'-C2'	-5.83	1.46	1.52
1	AA	916	U	C2-N3	5.83	1.41	1.37
1	AA	1094	G	C2'-C1'	-5.83	1.47	1.53
1	AA	1100	C	P-O5'	-5.83	1.53	1.59
35	BB	595	C	C4'-C3'	-5.83	1.46	1.52
35	BB	922	C	C5-C6	5.83	1.39	1.34
35	BB	1120	G	C6-N1	5.83	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1161	C	N1-C6	5.83	1.40	1.37
35	BB	1261	C	C4-N4	5.83	1.39	1.33
35	BB	2278	A	C5-C6	-5.83	1.35	1.41
35	BB	2630	G	C8-N7	-5.83	1.27	1.30
35	BB	2837	A	O3'-P	5.83	1.68	1.61
1	AA	538	G	C2-N3	5.83	1.37	1.32
1	AA	835	U	C2'-C1'	-5.83	1.47	1.53
1	AA	846	G	N1-C2	5.83	1.42	1.37
1	AA	1004	A	C6-N1	5.83	1.39	1.35
1	AA	1421	G	O3'-P	-5.83	1.54	1.61
34	BA	8	C	C4-C5	-5.83	1.38	1.43
35	BB	115	C	C5'-C4'	5.83	1.58	1.51
35	BB	122	G	C3'-O3'	5.83	1.50	1.42
35	BB	684	G	P-O5'	5.83	1.65	1.59
35	BB	1232	G	C6-O6	5.83	1.29	1.24
35	BB	1271	G	C5-C4	5.83	1.42	1.38
35	BB	1369	G	N1-C2	5.83	1.42	1.37
35	BB	1411	U	C4-O4	-5.83	1.19	1.23
35	BB	1465	G	C6-N1	5.83	1.43	1.39
35	BB	1506	U	C2-N3	5.83	1.41	1.37
35	BB	1665	A	C1'-N9	-5.83	1.38	1.46
35	BB	1677	A	C8-N7	-5.83	1.27	1.31
35	BB	2144	G	C6-N1	5.83	1.43	1.39
35	BB	2598	A	O3'-P	-5.83	1.54	1.61
1	AA	35	G	P-O5'	-5.83	1.53	1.59
1	AA	1126	U	N1-C2	5.83	1.43	1.38
1	AA	1169	A	N9-C8	5.83	1.42	1.37
35	BB	123	G	C2-N3	5.83	1.37	1.32
35	BB	408	G	C2-N3	5.83	1.37	1.32
35	BB	829	A	C1'-N9	-5.83	1.38	1.46
35	BB	1127	A	N3-C4	-5.83	1.31	1.34
35	BB	2319	G	C2-N2	5.83	1.40	1.34
35	BB	2432	A	C6-N6	5.83	1.38	1.33
35	BB	2495	G	N9-C8	5.83	1.42	1.37
1	AA	493	A	C6-N6	5.83	1.38	1.33
35	BB	585	G	C6-N1	5.83	1.43	1.39
35	BB	954	G	N3-C4	-5.83	1.31	1.35
35	BB	1046	A	C8-N7	5.83	1.35	1.31
35	BB	1681	G	N3-C4	5.83	1.39	1.35
35	BB	1708	C	C5'-C4'	5.83	1.58	1.51
35	BB	1828	G	N3-C4	-5.83	1.31	1.35
35	BB	2200	C	C4-N4	5.83	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2337	G	C5-C4	5.83	1.42	1.38
35	BB	2676	C	C3'-O3'	5.83	1.50	1.42
35	BB	2682	A	N9-C8	-5.83	1.33	1.37
35	BB	2753	A	C2-N3	5.83	1.38	1.33
1	AA	655	A	C6-N6	5.83	1.38	1.33
1	AA	685	G	N9-C8	-5.83	1.33	1.37
34	BA	20	G	N1-C2	5.83	1.42	1.37
34	BA	109	A	C3'-C2'	5.83	1.59	1.52
35	BB	307	G	C8-N7	5.83	1.34	1.30
35	BB	654	A	N3-C4	-5.83	1.31	1.34
35	BB	1737	G	C2'-C1'	-5.83	1.47	1.53
36	BC	181	ARG	NE-CZ	5.83	1.40	1.33
1	AA	340	U	O3'-P	-5.83	1.54	1.61
1	AA	717	U	O3'-P	-5.83	1.54	1.61
35	BB	481	G	C5-C4	-5.83	1.34	1.38
35	BB	1616	A	C6-N6	5.83	1.38	1.33
35	BB	1945	G	N1-C2	5.83	1.42	1.37
35	BB	2223	G	C5-C6	-5.83	1.36	1.42
35	BB	2276	G	C2-N3	5.83	1.37	1.32
35	BB	2654	A	N9-C4	-5.83	1.34	1.37
1	AA	336	A	C5'-C4'	5.82	1.58	1.51
1	AA	337	G	C5-C4	-5.82	1.34	1.38
35	BB	544	C	P-O5'	5.82	1.65	1.59
35	BB	597	G	N1-C2	5.82	1.42	1.37
35	BB	660	C	C5'-C4'	5.82	1.58	1.51
35	BB	1354	A	C2'-O2'	-5.82	1.34	1.41
35	BB	1415	U	C1'-N1	5.82	1.57	1.48
35	BB	1582	C	N1-C6	5.82	1.40	1.37
35	BB	1624	U	C5-C6	-5.82	1.28	1.34
35	BB	2566	A	C5-C4	-5.82	1.34	1.38
35	BB	2850	A	P-O5'	-5.82	1.53	1.59
1	AA	290	C	P-O5'	-5.82	1.53	1.59
35	BB	1804	C	N3-C4	5.82	1.38	1.33
35	BB	1884	G	C2'-C1'	-5.82	1.47	1.53
35	BB	2795	C	C4'-O4'	5.82	1.53	1.45
1	AA	38	G	O3'-P	-5.82	1.54	1.61
1	AA	489	C	C2'-C1'	-5.82	1.47	1.53
1	AA	523	A	N3-C4	-5.82	1.31	1.34
1	AA	1171	A	N7-C5	-5.82	1.35	1.39
1	AA	1275	A	N9-C4	-5.82	1.34	1.37
1	AA	1518	A	N9-C8	-5.82	1.33	1.37
2	AB	221	ARG	CZ-NH1	5.82	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	35	C	N1-C6	5.82	1.40	1.37
34	BA	114	C	C2-O2	5.82	1.29	1.24
35	BB	214	G	N1-C2	5.82	1.42	1.37
35	BB	501	A	C6-N6	5.82	1.38	1.33
35	BB	1241	A	C6-N6	5.82	1.38	1.33
35	BB	1826	G	C3'-O3'	5.82	1.50	1.42
35	BB	2229	U	C4'-C3'	5.82	1.59	1.53
35	BB	2315	G	N9-C4	-5.82	1.33	1.38
35	BB	2445	G	N3-C4	5.82	1.39	1.35
35	BB	2752	C	C4-N4	5.82	1.39	1.33
1	AA	225	C	C4-N4	5.82	1.39	1.33
1	AA	1001	C	P-O5'	-5.82	1.53	1.59
35	BB	745	G	C2-N3	5.82	1.37	1.32
35	BB	1451	C	C2-N3	5.82	1.40	1.35
35	BB	2780	G	C5-C4	5.82	1.42	1.38
1	AA	357	G	C2-N3	5.82	1.37	1.32
1	AA	1490	U	C5-C6	5.82	1.39	1.34
35	BB	291	G	N1-C2	5.82	1.42	1.37
35	BB	738	G	P-O5'	-5.82	1.53	1.59
35	BB	1668	A	C8-N7	-5.82	1.27	1.31
35	BB	1873	G	C5-C6	-5.82	1.36	1.42
35	BB	2623	G	N3-C4	-5.82	1.31	1.35
35	BB	2838	G	C2-N3	5.82	1.37	1.32
41	BH	45	GLU	CD-OE1	5.82	1.32	1.25
1	AA	182	A	N9-C4	-5.82	1.34	1.37
1	AA	292	G	C2'-C1'	-5.82	1.47	1.53
1	AA	371	A	C8-N7	5.82	1.35	1.31
1	AA	832	G	N9-C4	-5.82	1.33	1.38
35	BB	1235	G	C5-C4	5.82	1.42	1.38
35	BB	1565	C	C5-C6	-5.82	1.29	1.34
35	BB	2549	G	N9-C4	-5.82	1.33	1.38
50	BQ	2	ARG	CZ-NH2	5.82	1.40	1.33
1	AA	113	G	N3-C4	-5.81	1.31	1.35
1	AA	547	A	C4'-C3'	-5.81	1.46	1.52
1	AA	895	G	C5-C6	-5.81	1.36	1.42
1	AA	908	A	C6-N6	5.81	1.38	1.33
35	BB	114	U	C4-C5	5.81	1.48	1.43
1	AA	211	G	C6-O6	5.81	1.29	1.24
35	BB	1109	C	C2'-C1'	-5.81	1.47	1.53
35	BB	1167	C	C2-N3	-5.81	1.31	1.35
35	BB	2226	C	C2'-C1'	-5.81	1.47	1.53
35	BB	2279	G	C8-N7	5.81	1.34	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2830	C	C4-N4	5.81	1.39	1.33
35	BB	2893	A	C5-C6	-5.81	1.35	1.41
1	AA	171	A	N7-C5	-5.81	1.35	1.39
35	BB	2288	A	C6-N6	5.81	1.38	1.33
1	AA	18	C	N3-C4	5.81	1.38	1.33
1	AA	280	C	C5-C6	5.81	1.39	1.34
1	AA	1276	G	N3-C4	-5.81	1.31	1.35
34	BA	53	A	C3'-O3'	5.81	1.50	1.42
35	BB	235	U	C2-N3	5.81	1.41	1.37
35	BB	494	G	C3'-O3'	5.81	1.50	1.42
35	BB	1356	G	C6-O6	5.81	1.29	1.24
35	BB	1784	A	N9-C8	-5.81	1.33	1.37
35	BB	2335	A	C6-N6	5.81	1.38	1.33
35	BB	2393	U	N1-C2	5.81	1.43	1.38
35	BB	2880	C	C4'-C3'	5.81	1.59	1.53
1	AA	158	G	C2'-C1'	-5.81	1.47	1.53
1	AA	407	U	N1-C2	5.81	1.43	1.38
35	BB	240	C	N3-C4	5.81	1.38	1.33
35	BB	279	A	C8-N7	-5.81	1.27	1.31
35	BB	443	A	C4'-O4'	-5.81	1.38	1.45
35	BB	1928	A	P-O5'	-5.81	1.53	1.59
35	BB	2610	C	C2'-C1'	-5.81	1.47	1.53
1	AA	364	A	N9-C4	5.81	1.41	1.37
1	AA	734	G	N9-C8	-5.81	1.33	1.37
35	BB	60	G	C8-N7	5.81	1.34	1.30
35	BB	1296	G	C8-N7	5.81	1.34	1.30
35	BB	1378	A	C4'-O4'	5.81	1.53	1.45
35	BB	1556	C	N3-C4	5.81	1.38	1.33
35	BB	1865	U	O3'-P	-5.81	1.54	1.61
35	BB	2640	G	N3-C4	5.81	1.39	1.35
1	AA	269	C	C4-C5	5.80	1.47	1.43
1	AA	544	G	C6-N1	5.80	1.43	1.39
1	AA	549	C	C2-N3	5.80	1.40	1.35
1	AA	691	G	C2'-C1'	-5.80	1.47	1.53
1	AA	849	G	O3'-P	-5.80	1.54	1.61
1	AA	1109	C	C4-N4	5.80	1.39	1.33
1	AA	1156	G	C2-N3	5.80	1.37	1.32
1	AA	1449	C	C2-N3	5.80	1.40	1.35
34	BA	69	G	C2-N2	5.80	1.40	1.34
35	BB	1035	U	C1'-N1	5.80	1.57	1.48
35	BB	1856	U	C2-N3	5.80	1.41	1.37
7	AG	91	ARG	NE-CZ	5.80	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	569	U	C4-O4	-5.80	1.19	1.23
35	BB	917	A	C3'-O3'	5.80	1.50	1.42
35	BB	2541	A	O3'-P	-5.80	1.54	1.61
35	BB	2875	C	N1-C2	5.80	1.46	1.40
1	AA	300	A	C8-N7	-5.80	1.27	1.31
1	AA	369	G	N9-C8	5.80	1.42	1.37
1	AA	959	A	C6-N1	5.80	1.39	1.35
35	BB	1328	A	C4'-C3'	5.80	1.59	1.53
35	BB	1463	C	N3-C4	5.80	1.38	1.33
35	BB	1670	C	C4-N4	5.80	1.39	1.33
35	BB	1985	C	P-O5'	-5.80	1.53	1.59
1	AA	564	C	C4'-O4'	5.80	1.53	1.45
34	BA	15	A	N3-C4	5.80	1.38	1.34
35	BB	549	G	C2'-C1'	-5.80	1.47	1.53
35	BB	647	G	C2'-O2'	5.80	1.49	1.41
35	BB	802	A	P-O5'	-5.80	1.53	1.59
35	BB	1386	C	C3'-C2'	5.80	1.59	1.52
35	BB	2008	C	C4-C5	5.80	1.47	1.43
35	BB	2169	A	N3-C4	5.80	1.38	1.34
35	BB	2500	U	P-O5'	-5.80	1.53	1.59
35	BB	2831	G	N9-C8	-5.80	1.33	1.37
37	BD	77	ARG	CZ-NH2	5.80	1.40	1.33
1	AA	625	U	C2-N3	5.80	1.41	1.37
1	AA	748	G	N9-C8	5.80	1.42	1.37
1	AA	1370	G	C3'-O3'	5.80	1.50	1.42
35	BB	1036	G	N7-C5	-5.80	1.35	1.39
35	BB	1791	A	O3'-P	-5.80	1.54	1.61
35	BB	2342	C	N3-C4	5.80	1.38	1.33
1	AA	103	U	C5-C6	-5.80	1.28	1.34
1	AA	105	G	P-O5'	-5.80	1.53	1.59
1	AA	922	G	C8-N7	-5.80	1.27	1.30
1	AA	1202	U	O4'-C1'	5.80	1.49	1.41
35	BB	642	U	O3'-P	-5.80	1.54	1.61
35	BB	924	G	O3'-P	-5.80	1.54	1.61
35	BB	1669	A	N3-C4	5.80	1.38	1.34
35	BB	1916	A	C6-N1	5.80	1.39	1.35
35	BB	2077	A	C2'-O2'	5.80	1.49	1.41
35	BB	2478	A	C5-C4	5.80	1.42	1.38
35	BB	2822	G	C5'-C4'	5.80	1.58	1.51
1	AA	1272	G	C5-C4	5.79	1.42	1.38
35	BB	106	C	C2'-C1'	-5.79	1.47	1.53
35	BB	1464	G	N3-C4	5.79	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	517	G	P-O5'	-5.79	1.53	1.59
1	AA	575	G	N9-C8	-5.79	1.33	1.37
1	AA	1320	C	C1'-N1	5.79	1.57	1.48
1	AA	1342	C	C1'-N1	5.79	1.57	1.48
34	BA	17	C	C5-C6	5.79	1.39	1.34
35	BB	85	G	C5'-C4'	5.79	1.58	1.51
35	BB	238	C	C5-C6	5.79	1.39	1.34
35	BB	465	G	O3'-P	-5.79	1.54	1.61
35	BB	493	G	C2'-C1'	-5.79	1.47	1.53
35	BB	704	G	C3'-O3'	5.79	1.50	1.42
35	BB	750	A	C6-N6	5.79	1.38	1.33
35	BB	880	G	C3'-C2'	-5.79	1.46	1.52
35	BB	1929	G	C5'-C4'	5.79	1.58	1.51
1	AA	275	G	C2-N3	5.79	1.37	1.32
1	AA	822	U	N3-C4	5.79	1.43	1.38
1	AA	1286	U	C4-O4	5.79	1.28	1.23
1	AA	1346	A	N3-C4	5.79	1.38	1.34
35	BB	126	A	C2'-C1'	-5.79	1.47	1.53
35	BB	592	A	C3'-O3'	5.79	1.50	1.42
35	BB	719	C	C5'-C4'	5.79	1.58	1.51
35	BB	889	C	N3-C4	5.79	1.38	1.33
35	BB	1327	A	N9-C4	5.79	1.41	1.37
35	BB	1436	G	C2-N3	5.79	1.37	1.32
35	BB	2588	G	C2'-C1'	-5.79	1.47	1.53
35	BB	2664	G	C2'-C1'	-5.79	1.47	1.53
35	BB	2870	C	C4-C5	5.79	1.47	1.43
38	BE	114	ARG	CZ-NH2	5.79	1.40	1.33
1	AA	1154	G	O4'-C1'	-5.79	1.34	1.41
1	AA	288	A	C3'-C2'	-5.79	1.46	1.52
4	AD	43	ARG	CZ-NH1	5.79	1.40	1.33
4	AD	134	TYR	CB-CG	5.79	1.60	1.51
35	BB	820	A	N9-C8	-5.79	1.33	1.37
35	BB	1582	C	C3'-C2'	-5.79	1.46	1.52
35	BB	1601	G	C8-N7	-5.79	1.27	1.30
35	BB	2343	U	N1-C2	5.79	1.43	1.38
35	BB	2358	A	C5-C6	5.79	1.46	1.41
35	BB	2762	C	C4-C5	5.79	1.47	1.43
1	AA	954	G	C5-C4	5.79	1.42	1.38
1	AA	1207	G	N9-C4	5.79	1.42	1.38
35	BB	2831	G	N3-C4	-5.79	1.31	1.35
1	AA	602	A	O4'-C1'	5.79	1.49	1.41
1	AA	757	U	N3-C4	5.79	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AV	70	C	O3'-P	5.79	1.68	1.61
34	BA	83	G	C6-N1	-5.79	1.35	1.39
35	BB	543	G	O3'-P	-5.79	1.54	1.61
35	BB	613	A	C2'-C1'	-5.79	1.47	1.53
35	BB	1782	U	C5'-C4'	5.79	1.58	1.51
35	BB	1788	C	C4-C5	5.79	1.47	1.43
35	BB	2682	A	C6-N1	5.79	1.39	1.35
1	AA	550	G	O4'-C1'	5.78	1.49	1.41
1	AA	806	C	C3'-C2'	-5.78	1.46	1.52
1	AA	1057	G	C5-C4	5.78	1.42	1.38
1	AA	1120	C	N1-C2	-5.78	1.34	1.40
1	AA	1281	C	N1-C6	5.78	1.40	1.37
1	AA	1498	U	N3-C4	5.78	1.43	1.38
35	BB	18	U	C2-N3	5.78	1.41	1.37
35	BB	156	A	C4'-C3'	-5.78	1.46	1.52
35	BB	733	G	C8-N7	-5.78	1.27	1.30
35	BB	897	C	N1-C6	5.78	1.40	1.37
35	BB	1438	U	P-O5'	-5.78	1.53	1.59
35	BB	1591	A	N7-C5	-5.78	1.35	1.39
35	BB	2878	U	O3'-P	-5.78	1.54	1.61
1	AA	65	A	N9-C4	-5.78	1.34	1.37
1	AA	481	G	N9-C4	-5.78	1.33	1.38
3	AC	71	ARG	CZ-NH2	5.78	1.40	1.33
35	BB	27	G	O4'-C1'	-5.78	1.34	1.41
35	BB	2715	C	P-O5'	-5.78	1.53	1.59
1	AA	191	G	C5-C4	-5.78	1.34	1.38
1	AA	388	G	N1-C2	5.78	1.42	1.37
1	AA	1052	U	C4-O4	-5.78	1.19	1.23
1	AA	1071	C	N3-C4	5.78	1.38	1.33
16	AP	14	ARG	CZ-NH1	5.78	1.40	1.33
28	B3	39	ARG	CZ-NH1	5.78	1.40	1.33
35	BB	122	G	C3'-C2'	-5.78	1.46	1.52
35	BB	553	G	N9-C8	5.78	1.41	1.37
35	BB	2567	G	C2'-C1'	-5.78	1.47	1.53
1	AA	935	A	C5-C6	5.78	1.46	1.41
8	AH	16	GLY	CA-C	-5.78	1.42	1.51
35	BB	78	U	C4-C5	5.78	1.48	1.43
35	BB	1181	U	C4-C5	-5.78	1.38	1.43
35	BB	1711	A	C6-N6	5.78	1.38	1.33
1	AA	203	G	C3'-C2'	5.78	1.59	1.52
1	AA	315	A	N7-C5	5.78	1.42	1.39
1	AA	637	C	C4'-C3'	5.78	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1425	U	C2-N3	5.78	1.41	1.37
9	AI	5	TYR	CG-CD2	5.78	1.46	1.39
35	BB	187	G	C8-N7	5.78	1.34	1.30
35	BB	477	A	C8-N7	-5.78	1.27	1.31
35	BB	602	A	C5-C6	-5.78	1.35	1.41
35	BB	651	G	C6-N1	5.78	1.43	1.39
35	BB	656	G	C2-N3	5.78	1.37	1.32
35	BB	960	A	N3-C4	5.78	1.38	1.34
35	BB	2231	U	C2-O2	5.78	1.27	1.22
35	BB	2327	A	C5-C4	-5.78	1.34	1.38
35	BB	2569	G	C3'-O3'	5.78	1.50	1.42
1	AA	117	G	C5-C6	-5.78	1.36	1.42
1	AA	135	C	O3'-P	-5.78	1.54	1.61
22	AV	2	G	C4'-C3'	-5.78	1.46	1.52
35	BB	270	A	C6-N1	-5.78	1.31	1.35
35	BB	360	U	C5'-C4'	5.78	1.58	1.51
35	BB	1195	G	N9-C4	-5.78	1.33	1.38
35	BB	1380	G	C5-C4	5.78	1.42	1.38
35	BB	1449	G	N7-C5	-5.78	1.35	1.39
35	BB	1773	A	C5-C4	5.78	1.42	1.38
35	BB	2226	C	C4-C5	5.78	1.47	1.43
55	BW	55	GLU	CD-OE2	-5.78	1.19	1.25
35	BB	232	G	C2-N3	5.77	1.37	1.32
35	BB	856	G	O3'-P	-5.77	1.54	1.61
35	BB	989	G	C2-N3	5.77	1.37	1.32
35	BB	2783	U	N1-C6	-5.77	1.32	1.38
1	AA	369	G	C2-N2	5.77	1.40	1.34
1	AA	401	C	C2'-C1'	-5.77	1.47	1.53
1	AA	1298	U	C4'-O4'	5.77	1.53	1.45
3	AC	52	SER	CA-CB	5.77	1.61	1.52
35	BB	336	C	N3-C4	5.77	1.38	1.33
35	BB	636	G	C2-N2	5.77	1.40	1.34
35	BB	685	A	C2'-C1'	-5.77	1.47	1.53
35	BB	918	A	C8-N7	5.77	1.35	1.31
35	BB	1666	G	C4'-O4'	5.77	1.53	1.45
1	AA	254	G	C6-O6	-5.77	1.19	1.24
1	AA	484	G	C5-C6	5.77	1.48	1.42
1	AA	1082	A	N3-C4	-5.77	1.31	1.34
1	AA	1252	A	P-O5'	-5.77	1.53	1.59
1	AA	1383	C	C4-N4	5.77	1.39	1.33
34	BA	68	C	C4-C5	5.77	1.47	1.43
35	BB	1246	A	C5-C6	5.77	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1560	G	N3-C4	-5.77	1.31	1.35
35	BB	2309	A	O3'-P	-5.77	1.54	1.61
35	BB	2716	C	O3'-P	-5.77	1.54	1.61
35	BB	2722	G	P-O5'	-5.77	1.53	1.59
1	AA	206	C	N1-C6	5.77	1.40	1.37
1	AA	1171	A	N3-C4	-5.77	1.31	1.34
35	BB	25	U	N1-C6	-5.77	1.32	1.38
35	BB	114	U	C2-N3	5.77	1.41	1.37
35	BB	170	U	N3-C4	5.77	1.43	1.38
35	BB	1493	C	C3'-C2'	-5.77	1.46	1.52
35	BB	1692	U	C2'-C1'	-5.77	1.47	1.53
35	BB	2201	G	C8-N7	5.77	1.34	1.30
35	BB	2238	G	N9-C4	-5.77	1.33	1.38
35	BB	2392	A	C6-N1	5.77	1.39	1.35
1	AA	164	G	C5-C4	5.77	1.42	1.38
1	AA	261	U	C5-C6	5.77	1.39	1.34
1	AA	553	A	N3-C4	5.77	1.38	1.34
1	AA	587	G	C2-N2	5.77	1.40	1.34
1	AA	1515	G	N3-C4	-5.77	1.31	1.35
34	BA	26	C	C4-C5	5.77	1.47	1.43
35	BB	829	A	C8-N7	-5.77	1.27	1.31
35	BB	913	U	N1-C6	5.77	1.43	1.38
35	BB	1125	G	C5'-C4'	5.77	1.58	1.51
35	BB	1818	U	O4'-C1'	5.77	1.49	1.41
35	BB	2234	G	O3'-P	-5.77	1.54	1.61
35	BB	2451	A	C6-N6	5.77	1.38	1.33
35	BB	2718	G	C5-C6	-5.77	1.36	1.42
1	AA	92	U	O3'-P	-5.77	1.54	1.61
1	AA	431	A	P-O5'	-5.77	1.53	1.59
1	AA	1497	G	C5'-C4'	5.77	1.58	1.51
1	AA	1511	G	C6-N1	5.77	1.43	1.39
35	BB	1914	C	C5'-C4'	5.77	1.58	1.51
1	AA	1227	A	C6-N6	5.76	1.38	1.33
1	AA	1272	G	N9-C8	5.76	1.41	1.37
1	AA	1405	G	N3-C4	-5.76	1.31	1.35
35	BB	93	G	C8-N7	5.76	1.34	1.30
35	BB	486	C	P-O5'	-5.76	1.53	1.59
35	BB	1879	C	P-O5'	-5.76	1.53	1.59
1	AA	61	G	N9-C8	5.76	1.41	1.37
35	BB	2716	C	C2-N3	5.76	1.40	1.35
1	AA	361	G	C2-N3	5.76	1.37	1.32
1	AA	936	C	N1-C6	5.76	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1042	A	N9-C4	5.76	1.41	1.37
1	AA	1314	C	N1-C6	-5.76	1.33	1.37
1	AA	1501	C	N3-C4	5.76	1.38	1.33
34	BA	82	U	P-O5'	-5.76	1.53	1.59
35	BB	414	C	P-O5'	-5.76	1.53	1.59
35	BB	613	A	N9-C4	5.76	1.41	1.37
35	BB	628	G	N9-C8	-5.76	1.33	1.37
35	BB	697	G	O3'-P	-5.76	1.54	1.61
35	BB	729	G	C1'-N9	5.76	1.57	1.48
35	BB	1313	U	C2-N3	5.76	1.41	1.37
35	BB	1559	U	O3'-P	-5.76	1.54	1.61
35	BB	1992	G	C3'-C2'	-5.76	1.46	1.52
35	BB	2084	C	C2'-C1'	-5.76	1.47	1.53
35	BB	2784	U	N3-C4	5.76	1.43	1.38
1	AA	262	A	N7-C5	-5.76	1.35	1.39
1	AA	397	A	N9-C8	-5.76	1.33	1.37
1	AA	1435	G	C6-N1	5.76	1.43	1.39
1	AA	1488	G	C2'-C1'	-5.76	1.47	1.53
1	AA	1500	A	N9-C4	-5.76	1.34	1.37
35	BB	1439	A	C4'-O4'	-5.76	1.38	1.45
35	BB	1608	A	N1-C2	5.76	1.39	1.34
35	BB	1791	A	N7-C5	-5.76	1.35	1.39
35	BB	1984	G	C2-N3	5.76	1.37	1.32
35	BB	2535	G	C4'-O4'	-5.76	1.38	1.45
47	BN	118	ARG	CZ-NH1	5.76	1.40	1.33
34	BA	118	C	N3-C4	5.76	1.38	1.33
35	BB	365	U	C2-N3	5.76	1.41	1.37
35	BB	475	C	P-O5'	-5.76	1.53	1.59
35	BB	605	G	C8-N7	5.76	1.34	1.30
35	BB	770	G	O4'-C1'	-5.76	1.34	1.41
35	BB	1099	G	P-O5'	-5.76	1.53	1.59
35	BB	1265	A	N3-C4	-5.76	1.31	1.34
35	BB	1614	A	C3'-C2'	5.76	1.59	1.52
35	BB	1850	G	C6-N1	-5.76	1.35	1.39
35	BB	2026	U	P-O5'	-5.76	1.53	1.59
35	BB	2205	A	N9-C4	5.76	1.41	1.37
1	AA	538	G	P-O5'	-5.76	1.53	1.59
1	AA	607	A	C4'-O4'	-5.76	1.38	1.45
1	AA	758	C	C5'-C4'	5.76	1.58	1.51
1	AA	989	U	C4'-C3'	-5.76	1.46	1.52
35	BB	862	G	C2-N3	5.76	1.37	1.32
35	BB	1671	U	C4-O4	-5.76	1.19	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1764	C	C1'-N1	5.76	1.57	1.48
35	BB	1948	G	N1-C2	5.76	1.42	1.37
35	BB	2463	C	C4-C5	5.76	1.47	1.43
35	BB	469	G	C2-N3	5.75	1.37	1.32
35	BB	1043	C	C4-N4	5.75	1.39	1.33
35	BB	1071	G	N1-C2	5.75	1.42	1.37
35	BB	1461	C	C2-N3	-5.75	1.31	1.35
35	BB	1811	G	P-O5'	-5.75	1.53	1.59
35	BB	2632	A	C4'-C3'	-5.75	1.46	1.52
1	AA	68	G	C2'-C1'	-5.75	1.47	1.53
1	AA	460	A	C5-C6	-5.75	1.35	1.41
1	AA	690	G	C6-N1	5.75	1.43	1.39
1	AA	924	C	C4-C5	5.75	1.47	1.43
35	BB	271	G	C5-C4	5.75	1.42	1.38
35	BB	551	G	O4'-C1'	5.75	1.49	1.41
35	BB	1062	G	C5'-C4'	5.75	1.58	1.51
35	BB	2218	G	C5-C6	-5.75	1.36	1.42
1	AA	398	U	C4-C5	5.75	1.48	1.43
1	AA	914	A	C6-N6	5.75	1.38	1.33
34	BA	69	G	C2-N3	5.75	1.37	1.32
35	BB	260	G	C2-N2	5.75	1.40	1.34
35	BB	1065	U	C5'-C4'	5.75	1.58	1.51
35	BB	1852	U	C4-C5	5.75	1.48	1.43
35	BB	2016	U	N1-C2	5.75	1.43	1.38
35	BB	2092	U	O3'-P	-5.75	1.54	1.61
35	BB	2142	A	C5-C6	-5.75	1.35	1.41
35	BB	2190	G	N9-C8	5.75	1.41	1.37
35	BB	2271	G	N7-C5	-5.75	1.35	1.39
35	BB	2865	U	C4-C5	5.75	1.48	1.43
35	BB	2867	G	O3'-P	5.75	1.68	1.61
40	BG	109	SER	CA-CB	5.75	1.61	1.52
35	BB	1927	A	N9-C4	-5.75	1.34	1.37
35	BB	2096	C	C4'-C3'	5.75	1.59	1.53
35	BB	2817	U	O3'-P	-5.75	1.54	1.61
1	AA	578	C	N3-C4	5.75	1.38	1.33
34	BA	100	G	N1-C2	5.75	1.42	1.37
35	BB	256	A	C2'-C1'	-5.75	1.47	1.53
35	BB	473	G	C5-C6	-5.75	1.36	1.42
35	BB	882	G	O3'-P	-5.75	1.54	1.61
35	BB	1047	G	C3'-C2'	-5.75	1.46	1.52
35	BB	1359	A	C5-C6	-5.75	1.35	1.41
35	BB	1381	G	P-O5'	-5.75	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2868	A	C6-N6	5.75	1.38	1.33
1	AA	407	U	O3'-P	-5.75	1.54	1.61
1	AA	978	A	N7-C5	-5.75	1.35	1.39
1	AA	1474	U	C1'-N1	5.75	1.57	1.48
35	BB	25	U	C4-O4	-5.75	1.19	1.23
35	BB	1253	A	C3'-C2'	-5.75	1.46	1.52
35	BB	1422	G	N9-C4	-5.75	1.33	1.38
35	BB	2753	A	C8-N7	5.75	1.35	1.31
35	BB	2727	A	C6-N1	5.75	1.39	1.35
38	BE	79	ARG	CZ-NH1	5.75	1.40	1.33
40	BG	34	ARG	CZ-NH2	5.75	1.40	1.33
1	AA	301	G	C2'-C1'	-5.74	1.47	1.53
1	AA	360	G	N9-C8	-5.74	1.33	1.37
1	AA	376	G	C2-N3	5.74	1.37	1.32
1	AA	877	G	C2'-C1'	-5.74	1.47	1.53
1	AA	1069	C	C4'-C3'	5.74	1.59	1.53
2	AB	73	ARG	CZ-NH2	5.74	1.40	1.33
34	BA	54	G	N1-C2	5.74	1.42	1.37
35	BB	74	A	P-O5'	-5.74	1.54	1.59
35	BB	358	U	O3'-P	-5.74	1.54	1.61
35	BB	479	A	N7-C5	-5.74	1.35	1.39
35	BB	553	G	C2-N3	5.74	1.37	1.32
35	BB	1831	G	N1-C2	5.74	1.42	1.37
35	BB	1929	G	N9-C8	5.74	1.41	1.37
35	BB	2272	U	C2-N3	5.74	1.41	1.37
35	BB	2340	A	C3'-O3'	5.74	1.50	1.42
35	BB	2471	A	C6-N1	5.74	1.39	1.35
35	BB	2498	C	N3-C4	5.74	1.38	1.33
35	BB	2617	U	P-O5'	-5.74	1.54	1.59
1	AA	270	A	C2-N3	5.74	1.38	1.33
1	AA	883	C	N3-C4	5.74	1.38	1.33
1	AA	1340	A	C2'-C1'	-5.74	1.47	1.53
35	BB	1652	A	N9-C8	5.74	1.42	1.37
1	AA	1000	A	N7-C5	-5.74	1.35	1.39
22	AV	4	C	C4'-C3'	5.74	1.59	1.53
35	BB	56	A	C6-N6	5.74	1.38	1.33
35	BB	919	U	N1-C6	5.74	1.43	1.38
35	BB	1347	A	N7-C5	-5.74	1.35	1.39
1	AA	944	G	C2-N3	5.74	1.37	1.32
1	AA	1221	G	N7-C5	-5.74	1.35	1.39
34	BA	2	G	C5-C6	-5.74	1.36	1.42
35	BB	71	A	O3'-P	-5.74	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1380	G	C5-C6	-5.74	1.36	1.42
35	BB	1509	A	N9-C4	5.74	1.41	1.37
35	BB	1588	G	N9-C8	-5.74	1.33	1.37
35	BB	2101	A	N9-C4	-5.74	1.34	1.37
35	BB	2115	G	C2-N3	5.74	1.37	1.32
35	BB	2141	G	C2-N2	5.74	1.40	1.34
35	BB	2534	A	N7-C5	-5.74	1.35	1.39
35	BB	2827	C	C4-N4	5.74	1.39	1.33
1	AA	728	A	N7-C5	-5.74	1.35	1.39
1	AA	1060	U	C3'-O3'	-5.74	1.34	1.42
7	AG	94	ARG	CZ-NH1	5.74	1.40	1.33
35	BB	88	G	C4'-C3'	-5.74	1.46	1.52
35	BB	179	C	C4-C5	-5.74	1.38	1.43
35	BB	450	G	C8-N7	-5.74	1.27	1.30
35	BB	1462	C	C2'-C1'	-5.74	1.47	1.53
35	BB	1954	G	N3-C4	5.74	1.39	1.35
1	AA	147	G	C8-N7	-5.74	1.27	1.30
1	AA	1221	G	C3'-O3'	5.74	1.50	1.42
35	BB	488	G	C2-N3	5.74	1.37	1.32
35	BB	784	G	C8-N7	5.74	1.34	1.30
35	BB	1271	G	C2-N2	5.74	1.40	1.34
35	BB	1593	A	C5-C6	-5.74	1.35	1.41
35	BB	2261	C	N1-C6	5.74	1.40	1.37
35	BB	2300	C	N1-C6	5.74	1.40	1.37
35	BB	2458	G	C6-O6	-5.74	1.19	1.24
1	AA	1086	U	C1'-N1	5.73	1.57	1.48
35	BB	763	G	N9-C4	5.73	1.42	1.38
1	AA	505	G	C1'-N9	-5.73	1.38	1.46
1	AA	767	A	N3-C4	-5.73	1.31	1.34
35	BB	90	U	C5-C6	5.73	1.39	1.34
35	BB	380	G	C3'-C2'	-5.73	1.46	1.52
35	BB	1057	A	C3'-C2'	5.73	1.59	1.52
35	BB	2119	A	C8-N7	5.73	1.35	1.31
35	BB	2234	G	N3-C4	5.73	1.39	1.35
35	BB	2570	G	N3-C4	-5.73	1.31	1.35
1	AA	28	A	P-O5'	-5.73	1.54	1.59
35	BB	663	G	C2'-C1'	-5.73	1.47	1.53
35	BB	1078	U	O4'-C1'	5.73	1.49	1.41
35	BB	1082	U	C4-O4	5.73	1.28	1.23
35	BB	1419	A	C2'-C1'	-5.73	1.47	1.53
35	BB	1964	G	C8-N7	5.73	1.34	1.30
35	BB	2522	U	O3'-P	-5.73	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	949	A	C5-C6	-5.73	1.35	1.41
1	AA	1179	A	N1-C2	-5.73	1.29	1.34
1	AA	1309	G	P-O5'	-5.73	1.54	1.59
35	BB	294	A	N3-C4	-5.73	1.31	1.34
35	BB	1331	G	C6-N1	5.73	1.43	1.39
1	AA	206	C	C4'-O4'	5.73	1.52	1.45
1	AA	339	C	N1-C6	-5.73	1.33	1.37
1	AA	867	G	C4'-C3'	5.73	1.59	1.53
1	AA	946	A	N3-C4	-5.73	1.31	1.34
1	AA	949	A	C2'-C1'	-5.73	1.47	1.53
1	AA	977	A	C3'-O3'	5.73	1.50	1.42
1	AA	1106	G	C5-C4	5.73	1.42	1.38
18	AR	62	ARG	CD-NE	5.73	1.56	1.46
35	BB	125	A	C6-N6	5.73	1.38	1.33
35	BB	1125	G	C2-N2	5.73	1.40	1.34
35	BB	1493	C	N1-C6	5.73	1.40	1.37
35	BB	2141	G	N9-C4	-5.73	1.33	1.38
35	BB	2889	C	C4-N4	5.73	1.39	1.33
1	AA	8	A	C8-N7	-5.73	1.27	1.31
35	BB	895	U	N3-C4	5.73	1.43	1.38
35	BB	1362	C	N3-C4	5.73	1.38	1.33
35	BB	2400	G	P-O5'	-5.73	1.54	1.59
35	BB	2843	G	N1-C2	5.73	1.42	1.37
1	AA	1254	A	C1'-N9	5.72	1.57	1.48
7	AG	145	GLU	CD-OE2	5.72	1.31	1.25
35	BB	134	G	C2'-C1'	-5.72	1.47	1.53
35	BB	173	A	N7-C5	-5.72	1.35	1.39
35	BB	1038	G	N7-C5	-5.72	1.35	1.39
35	BB	1530	G	N3-C4	-5.72	1.31	1.35
35	BB	1797	G	N3-C4	-5.72	1.31	1.35
35	BB	2359	C	C5'-C4'	5.72	1.58	1.51
35	BB	2761	A	C6-N6	5.72	1.38	1.33
37	BD	82	PHE	CG-CD2	5.72	1.47	1.38
1	AA	171	A	C4'-O4'	5.72	1.52	1.45
1	AA	454	G	O3'-P	-5.72	1.54	1.61
1	AA	725	G	C2'-C1'	-5.72	1.47	1.53
1	AA	797	C	O4'-C1'	5.72	1.49	1.41
1	AA	1057	G	C6-N1	-5.72	1.35	1.39
35	BB	245	G	P-O5'	-5.72	1.54	1.59
35	BB	601	C	C1'-N1	5.72	1.57	1.48
35	BB	778	G	N1-C2	5.72	1.42	1.37
35	BB	2525	G	C3'-C2'	5.72	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	585	G	C4'-C3'	-5.72	1.46	1.52
35	BB	2264	C	C4'-C3'	5.72	1.59	1.53
35	BB	2416	C	P-O5'	-5.72	1.54	1.59
1	AA	646	G	C2-N3	5.72	1.37	1.32
1	AA	925	G	C2'-C1'	-5.72	1.47	1.53
15	AO	88	ARG	NE-CZ	5.72	1.40	1.33
35	BB	379	G	C5'-C4'	5.72	1.58	1.51
35	BB	742	A	C2'-C1'	-5.72	1.47	1.53
35	BB	1344	U	C5'-C4'	5.72	1.58	1.51
35	BB	1641	A	C4'-C3'	-5.72	1.46	1.52
35	BB	1981	A	C2-N3	5.72	1.38	1.33
35	BB	2272	U	N1-C2	5.72	1.43	1.38
35	BB	2537	U	N1-C2	5.72	1.43	1.38
35	BB	2622	U	C4'-O4'	-5.72	1.38	1.45
35	BB	2899	A	C8-N7	-5.72	1.27	1.31
1	AA	925	G	C2-N3	5.72	1.37	1.32
35	BB	910	A	N9-C4	-5.72	1.34	1.37
35	BB	1167	C	C4-C5	-5.72	1.38	1.43
35	BB	2765	A	N9-C4	-5.72	1.34	1.37
35	BB	2851	A	C6-N1	5.72	1.39	1.35
1	AA	99	C	C4'-C3'	5.72	1.59	1.53
1	AA	100	G	N1-C2	5.72	1.42	1.37
1	AA	123	U	C5'-C4'	5.72	1.58	1.51
1	AA	144	G	C2-N3	5.72	1.37	1.32
1	AA	384	G	C3'-C2'	-5.72	1.46	1.52
1	AA	784	A	C4'-C3'	5.72	1.59	1.53
1	AA	800	G	C8-N7	5.72	1.34	1.30
1	AA	1458	G	C5-C6	-5.72	1.36	1.42
35	BB	90	U	C4'-C3'	5.72	1.59	1.53
35	BB	124	G	N7-C5	-5.72	1.35	1.39
35	BB	178	G	N1-C2	5.72	1.42	1.37
35	BB	1103	A	P-O5'	-5.72	1.54	1.59
35	BB	1473	G	N3-C4	-5.72	1.31	1.35
35	BB	1962	C	C4-C5	5.72	1.47	1.43
35	BB	2800	A	C6-N1	5.72	1.39	1.35
1	AA	856	C	C4-C5	5.71	1.47	1.43
1	AA	1370	G	C4'-O4'	5.71	1.52	1.45
35	BB	808	G	C2-N2	5.71	1.40	1.34
35	BB	846	U	C4'-O4'	5.71	1.52	1.45
35	BB	1418	G	C5-C4	5.71	1.42	1.38
35	BB	1436	G	C4'-C3'	-5.71	1.46	1.52
35	BB	1652	A	N3-C4	-5.71	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1832	C	C3'-C2'	5.71	1.59	1.52
35	BB	2184	A	O3'-P	-5.71	1.54	1.61
35	BB	2720	U	C2'-C1'	-5.71	1.47	1.53
35	BB	2871	U	P-O5'	-5.71	1.54	1.59
35	BB	2880	C	C2'-C1'	-5.71	1.47	1.53
1	AA	403	C	N1-C6	-5.71	1.33	1.37
35	BB	285	G	N7-C5	-5.71	1.35	1.39
35	BB	618	G	N1-C2	5.71	1.42	1.37
35	BB	823	C	C5'-C4'	5.71	1.58	1.51
35	BB	1078	U	C1'-N1	5.71	1.57	1.48
35	BB	1515	A	P-O5'	-5.71	1.54	1.59
35	BB	2396	G	N7-C5	-5.71	1.35	1.39
1	AA	58	C	C5'-C4'	5.71	1.58	1.51
1	AA	102	G	N3-C4	5.71	1.39	1.35
1	AA	739	C	N3-C4	5.71	1.38	1.33
1	AA	946	A	C3'-C2'	5.71	1.59	1.52
13	AM	89	ARG	CD-NE	5.71	1.56	1.46
34	BA	75	G	C2-N2	5.71	1.40	1.34
34	BA	96	G	N3-C4	5.71	1.39	1.35
35	BB	1207	C	C2'-C1'	-5.71	1.47	1.53
35	BB	1291	C	P-O5'	-5.71	1.54	1.59
35	BB	1619	G	O4'-C1'	5.71	1.49	1.41
35	BB	2163	A	N1-C2	5.71	1.39	1.34
35	BB	2362	C	N1-C6	5.71	1.40	1.37
35	BB	2479	U	C5'-C4'	5.71	1.58	1.51
35	BB	2521	C	C2'-C1'	-5.71	1.47	1.53
35	BB	2666	C	O4'-C1'	-5.71	1.34	1.41
1	AA	27	G	P-O5'	-5.71	1.54	1.59
1	AA	539	A	C6-N1	5.71	1.39	1.35
1	AA	654	G	O3'-P	-5.71	1.54	1.61
1	AA	1396	A	C6-N6	5.71	1.38	1.33
1	AA	146	G	O4'-C1'	5.71	1.49	1.41
1	AA	1169	A	N3-C4	-5.71	1.31	1.34
1	AA	1403	C	C2-N3	-5.71	1.31	1.35
9	AI	116	GLY	N-CA	-5.71	1.37	1.46
22	AV	7	G	P-O5'	-5.71	1.54	1.59
35	BB	308	G	N3-C4	5.71	1.39	1.35
35	BB	832	U	O4'-C1'	5.71	1.49	1.41
35	BB	1643	G	C2-N3	5.71	1.37	1.32
35	BB	2255	G	C3'-C2'	-5.71	1.46	1.52
35	BB	2360	G	C8-N7	-5.71	1.27	1.30
48	BO	100	HIS	C-N	5.71	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	167	A	C2'-C1'	-5.71	1.47	1.53
1	AA	177	G	C2'-C1'	-5.71	1.47	1.53
1	AA	202	G	C3'-C2'	5.71	1.59	1.52
1	AA	336	A	C3'-C2'	-5.71	1.46	1.52
1	AA	731	G	C2-N3	-5.71	1.28	1.32
1	AA	882	C	N1-C6	5.71	1.40	1.37
1	AA	1152	A	N1-C2	5.71	1.39	1.34
1	AA	1243	C	C4-C5	5.71	1.47	1.43
1	AA	1276	G	N1-C2	5.71	1.42	1.37
34	BA	59	A	N9-C4	5.71	1.41	1.37
35	BB	1787	A	C2-N3	5.71	1.38	1.33
35	BB	1813	G	C2-N3	5.71	1.37	1.32
35	BB	2102	G	C5'-C4'	5.71	1.58	1.51
35	BB	2354	C	C4-N4	5.71	1.39	1.33
35	BB	2379	G	C3'-O3'	5.71	1.50	1.42
35	BB	2702	G	C2-N3	5.71	1.37	1.32
34	BA	97	C	N1-C6	5.71	1.40	1.37
35	BB	1180	U	C2-O2	5.71	1.27	1.22
35	BB	1229	C	C2-N3	5.71	1.40	1.35
35	BB	1233	C	C3'-O3'	5.71	1.50	1.42
35	BB	1307	A	N3-C4	-5.71	1.31	1.34
35	BB	1338	G	O3'-P	-5.71	1.54	1.61
35	BB	2235	G	C2-N2	5.71	1.40	1.34
35	BB	2377	A	C6-N1	5.71	1.39	1.35
1	AA	984	C	C4-N4	5.70	1.39	1.33
1	AA	1385	G	C4'-C3'	5.70	1.59	1.53
35	BB	328	U	C4-C5	5.70	1.48	1.43
35	BB	1056	G	C5'-C4'	-5.70	1.44	1.51
35	BB	1456	G	N1-C2	5.70	1.42	1.37
35	BB	1488	C	N3-C4	5.70	1.38	1.33
35	BB	2079	U	N1-C2	-5.70	1.33	1.38
35	BB	2106	U	C3'-C2'	-5.70	1.46	1.52
35	BB	2136	G	N9-C8	5.70	1.41	1.37
35	BB	2186	G	C1'-N9	5.70	1.57	1.48
35	BB	2477	U	P-O5'	-5.70	1.54	1.59
35	BB	2555	U	N3-C4	5.70	1.43	1.38
35	BB	2842	G	C3'-C2'	5.70	1.59	1.52
1	AA	311	C	C2-N3	-5.70	1.31	1.35
1	AA	1502	A	C2'-C1'	-5.70	1.47	1.53
35	BB	1157	G	C4'-O4'	5.70	1.52	1.45
35	BB	1411	U	C5'-C4'	5.70	1.58	1.51
35	BB	1634	A	C6-N1	5.70	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2086	U	O3'-P	-5.70	1.54	1.61
1	AA	65	A	C4'-C3'	5.70	1.59	1.53
1	AA	355	C	C3'-C2'	-5.70	1.46	1.52
1	AA	564	C	C2-N3	5.70	1.40	1.35
1	AA	1125	U	C5'-C4'	5.70	1.58	1.51
34	BA	22	U	N1-C2	5.70	1.43	1.38
35	BB	271	G	N1-C2	5.70	1.42	1.37
35	BB	301	G	N7-C5	-5.70	1.35	1.39
35	BB	1036	G	C2'-C1'	-5.70	1.47	1.53
35	BB	1496	A	N3-C4	5.70	1.38	1.34
35	BB	1680	U	N1-C2	5.70	1.43	1.38
35	BB	2542	A	C2-N3	5.70	1.38	1.33
1	AA	396	C	C4-N4	5.70	1.39	1.33
34	BA	97	C	C2-N3	5.70	1.40	1.35
35	BB	720	U	C4-C5	5.70	1.48	1.43
35	BB	1530	G	C2'-C1'	-5.70	1.47	1.53
35	BB	2759	G	N9-C4	5.70	1.42	1.38
35	BB	2783	U	N3-C4	5.70	1.43	1.38
45	BL	41	ARG	CD-NE	5.70	1.56	1.46
1	AA	288	A	C5'-C4'	5.70	1.58	1.51
1	AA	661	G	C4'-O4'	-5.70	1.38	1.45
1	AA	806	C	C5-C6	-5.70	1.29	1.34
1	AA	1430	A	C5-C4	5.70	1.42	1.38
1	AA	92	U	C3'-C2'	5.70	1.59	1.52
1	AA	726	C	C3'-C2'	5.70	1.59	1.52
1	AA	801	U	C2-N3	5.70	1.41	1.37
35	BB	226	A	C2'-C1'	-5.70	1.47	1.53
35	BB	1086	A	C2-N3	5.70	1.38	1.33
35	BB	1204	A	N3-C4	5.70	1.38	1.34
35	BB	1643	G	C5-C4	5.70	1.42	1.38
35	BB	2694	G	N9-C4	-5.70	1.33	1.38
35	BB	2865	U	O3'-P	-5.70	1.54	1.61
40	BG	152	ARG	CD-NE	5.70	1.56	1.46
1	AA	1219	A	P-O5'	-5.69	1.54	1.59
35	BB	150	U	C2'-C1'	-5.69	1.47	1.53
35	BB	2482	A	O4'-C1'	5.69	1.49	1.41
35	BB	2516	A	C2-N3	-5.69	1.28	1.33
1	AA	113	G	C2-N3	5.69	1.37	1.32
1	AA	530	G	N3-C4	-5.69	1.31	1.35
1	AA	801	U	N1-C6	5.69	1.43	1.38
1	AA	940	C	C4'-O4'	-5.69	1.38	1.45
34	BA	25	U	C2-N3	5.69	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	173	A	C6-N6	5.69	1.38	1.33
35	BB	382	A	C8-N7	5.69	1.35	1.31
35	BB	1201	U	C4-C5	5.69	1.48	1.43
35	BB	1279	G	C2-N2	5.69	1.40	1.34
35	BB	1897	G	C2-N2	5.69	1.40	1.34
35	BB	2071	A	C6-N6	5.69	1.38	1.33
35	BB	2177	C	P-O5'	5.69	1.65	1.59
35	BB	2461	A	N1-C2	5.69	1.39	1.34
35	BB	2716	C	C2'-C1'	-5.69	1.47	1.53
35	BB	2778	A	C2-N3	5.69	1.38	1.33
1	AA	108	G	C5-C4	-5.69	1.34	1.38
1	AA	689	C	O3'-P	-5.69	1.54	1.61
1	AA	1331	G	N7-C5	-5.69	1.35	1.39
35	BB	165	A	N9-C4	-5.69	1.34	1.37
35	BB	566	U	P-O5'	-5.69	1.54	1.59
35	BB	1604	C	O3'-P	-5.69	1.54	1.61
35	BB	1768	C	P-O5'	-5.69	1.54	1.59
35	BB	2028	U	P-O5'	-5.69	1.54	1.59
1	AA	138	G	C3'-O3'	5.69	1.50	1.42
1	AA	1244	G	N9-C8	5.69	1.41	1.37
1	AA	1311	A	C6-N6	5.69	1.38	1.33
1	AA	1521	C	C2-N3	5.69	1.40	1.35
35	BB	1773	A	C4'-O4'	-5.69	1.38	1.45
35	BB	2885	G	N9-C8	5.69	1.41	1.37
1	AA	309	A	C4'-C3'	5.69	1.59	1.53
1	AA	352	C	C5-C6	5.69	1.39	1.34
1	AA	499	A	C6-N6	5.69	1.38	1.33
1	AA	778	G	N9-C8	5.69	1.41	1.37
1	AA	996	A	C2'-C1'	-5.69	1.47	1.53
35	BB	847	U	C2'-O2'	-5.69	1.34	1.41
35	BB	1051	G	O4'-C1'	5.69	1.49	1.41
35	BB	2038	G	N9-C8	5.69	1.41	1.37
35	BB	2731	G	C4'-C3'	5.69	1.59	1.53
35	BB	2875	C	C2-O2	-5.69	1.19	1.24
35	BB	900	A	C5-C6	-5.69	1.35	1.41
35	BB	1511	G	N1-C2	5.69	1.42	1.37
35	BB	1900	A	C6-N1	5.69	1.39	1.35
35	BB	2312	U	N1-C2	5.69	1.43	1.38
35	BB	2847	U	C4-O4	5.69	1.28	1.23
1	AA	300	A	P-O5'	-5.68	1.54	1.59
1	AA	1176	A	C3'-C2'	-5.68	1.46	1.52
1	AA	1516	G	O3'-P	-5.68	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2	G	P-O5'	5.68	1.65	1.59
35	BB	244	A	N9-C8	5.68	1.42	1.37
35	BB	1384	A	C6-N1	5.68	1.39	1.35
35	BB	1456	G	C8-N7	5.68	1.34	1.30
35	BB	1572	A	O3'-P	-5.68	1.54	1.61
35	BB	1728	C	C2-O2	5.68	1.29	1.24
35	BB	2388	A	C2-N3	5.68	1.38	1.33
1	AA	136	C	N1-C2	5.68	1.45	1.40
1	AA	761	G	C8-N7	-5.68	1.27	1.30
1	AA	942	G	N9-C8	5.68	1.41	1.37
1	AA	1004	A	C5'-C4'	5.68	1.58	1.51
1	AA	1474	U	C4-C5	5.68	1.48	1.43
35	BB	712	G	O4'-C1'	-5.68	1.34	1.41
35	BB	1537	G	N9-C4	5.68	1.42	1.38
35	BB	1651	G	N7-C5	-5.68	1.35	1.39
35	BB	1821	A	C2'-O2'	-5.68	1.34	1.41
35	BB	2072	C	N1-C2	5.68	1.45	1.40
35	BB	2594	C	C4-N4	5.68	1.39	1.33
35	BB	2780	G	C6-N1	5.68	1.43	1.39
5	AE	44	ARG	CZ-NH1	5.68	1.40	1.33
35	BB	581	C	N3-C4	5.68	1.38	1.33
35	BB	1530	G	O3'-P	-5.68	1.54	1.61
35	BB	1868	C	C5'-C4'	5.68	1.58	1.51
1	AA	749	A	C8-N7	-5.68	1.27	1.31
1	AA	880	C	C2'-C1'	-5.68	1.47	1.53
1	AA	897	C	N1-C2	5.68	1.45	1.40
1	AA	1202	U	C3'-C2'	5.68	1.59	1.52
35	BB	537	G	N9-C8	-5.68	1.33	1.37
35	BB	1513	U	C1'-N1	5.68	1.57	1.48
35	BB	2002	G	C5-C6	-5.68	1.36	1.42
35	BB	2013	A	N9-C8	-5.68	1.33	1.37
35	BB	2274	A	N9-C4	-5.68	1.34	1.37
1	AA	476	U	N3-C4	5.68	1.43	1.38
1	AA	783	C	C2'-C1'	-5.68	1.47	1.53
35	BB	520	G	O3'-P	-5.68	1.54	1.61
35	BB	1012	U	N1-C6	-5.68	1.32	1.38
35	BB	1888	G	P-O5'	-5.68	1.54	1.59
1	AA	389	A	C1'-N9	5.68	1.57	1.48
1	AA	535	A	C1'-N9	-5.68	1.39	1.46
1	AA	574	A	C4'-C3'	5.68	1.59	1.53
1	AA	1307	U	O3'-P	-5.68	1.54	1.61
16	AP	51	ARG	CD-NE	5.68	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	573	U	C5'-C4'	5.68	1.58	1.51
35	BB	648	G	C8-N7	-5.68	1.27	1.30
35	BB	983	A	N3-C4	-5.68	1.31	1.34
35	BB	1479	G	C5-C6	-5.68	1.36	1.42
35	BB	1735	A	C8-N7	-5.68	1.27	1.31
35	BB	2120	G	N9-C4	-5.68	1.33	1.38
35	BB	2196	C	C2-O2	5.68	1.29	1.24
35	BB	2665	A	N3-C4	5.68	1.38	1.34
35	BB	2868	A	C3'-O3'	5.68	1.50	1.42
1	AA	361	G	C1'-N9	5.67	1.57	1.48
1	AA	614	C	C4-N4	5.67	1.39	1.33
1	AA	892	A	N7-C5	-5.67	1.35	1.39
2	AB	20	ARG	CD-NE	5.67	1.56	1.46
35	BB	245	G	C2-N3	5.67	1.37	1.32
35	BB	664	G	C2'-C1'	-5.67	1.47	1.53
35	BB	1655	A	O3'-P	-5.67	1.54	1.61
35	BB	2118	U	C5'-C4'	5.67	1.58	1.51
35	BB	2357	G	C2-N3	5.67	1.37	1.32
35	BB	2857	G	N9-C8	5.67	1.41	1.37
41	BH	25	TYR	CE2-CZ	5.67	1.46	1.38
44	BK	1	MET	CA-CB	5.67	1.66	1.53
35	BB	1414	C	C2-O2	5.67	1.29	1.24
35	BB	1567	G	C2'-C1'	-5.67	1.47	1.53
35	BB	1569	A	C5-C6	-5.67	1.35	1.41
35	BB	153	U	N1-C2	5.67	1.43	1.38
35	BB	2210	U	C5'-C4'	-5.67	1.44	1.51
35	BB	2654	A	N9-C8	-5.67	1.33	1.37
1	AA	139	A	C2-N3	-5.67	1.28	1.33
1	AA	424	G	C2'-C1'	-5.67	1.47	1.53
35	BB	631	A	C2'-C1'	5.67	1.59	1.53
35	BB	1341	G	P-O5'	-5.67	1.54	1.59
35	BB	2256	G	P-O5'	5.67	1.65	1.59
1	AA	39	G	C6-O6	-5.67	1.19	1.24
1	AA	536	C	O3'-P	-5.67	1.54	1.61
1	AA	1060	U	C4-O4	-5.67	1.19	1.23
35	BB	145	C	C2-N3	5.67	1.40	1.35
35	BB	275	C	C5-C6	5.67	1.38	1.34
35	BB	522	A	C6-N1	5.67	1.39	1.35
35	BB	527	C	C2'-C1'	-5.67	1.47	1.53
35	BB	618	G	C5-C4	-5.67	1.34	1.38
35	BB	2468	A	C2'-C1'	-5.67	1.47	1.53
1	AA	198	G	C4'-C3'	5.67	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	569	C	N3-C4	5.67	1.38	1.33
1	AA	878	A	C6-N1	5.67	1.39	1.35
3	AC	39	ARG	NE-CZ	5.67	1.40	1.33
35	BB	1788	C	C4'-C3'	5.67	1.59	1.53
35	BB	1981	A	N9-C4	-5.67	1.34	1.37
35	BB	2626	C	C4-C5	5.67	1.47	1.43
1	AA	782	A	C6-N1	5.67	1.39	1.35
1	AA	1097	C	C4-N4	5.67	1.39	1.33
35	BB	366	C	P-O5'	-5.66	1.54	1.59
35	BB	1304	A	C4'-O4'	-5.66	1.38	1.45
35	BB	1566	A	C4'-O4'	-5.66	1.38	1.45
35	BB	1863	G	C2'-C1'	-5.66	1.47	1.53
35	BB	1985	C	C3'-C2'	-5.66	1.46	1.52
35	BB	2172	U	C3'-O3'	5.66	1.50	1.42
35	BB	2559	C	O3'-P	-5.66	1.54	1.61
35	BB	2803	G	P-O5'	-5.66	1.54	1.59
35	BB	2811	G	C6-O6	5.66	1.29	1.24
1	AA	140	U	C4'-O4'	5.66	1.52	1.45
1	AA	503	C	O4'-C1'	5.66	1.49	1.41
1	AA	737	C	O4'-C1'	5.66	1.49	1.41
1	AA	1072	G	C2'-C1'	-5.66	1.47	1.53
1	AA	1493	A	C1'-N9	5.66	1.57	1.48
35	BB	689	A	C2-N3	5.66	1.38	1.33
35	BB	1230	A	C5-C4	-5.66	1.34	1.38
35	BB	1761	C	O4'-C1'	-5.66	1.34	1.41
35	BB	2296	U	C4'-C3'	5.66	1.59	1.53
35	BB	2751	G	C2-N2	5.66	1.40	1.34
1	AA	394	G	C4'-C3'	-5.66	1.46	1.52
1	AA	573	A	N9-C4	5.66	1.41	1.37
1	AA	850	U	C4'-C3'	5.66	1.59	1.53
1	AA	886	G	C8-N7	5.66	1.34	1.30
1	AA	1088	G	C8-N7	-5.66	1.27	1.30
12	AL	85	ARG	CD-NE	5.66	1.56	1.46
35	BB	218	A	C5-C6	-5.66	1.35	1.41
35	BB	802	A	C5'-C4'	5.66	1.58	1.51
35	BB	2279	G	C3'-C2'	-5.66	1.46	1.52
35	BB	2823	A	N7-C5	-5.66	1.35	1.39
1	AA	345	C	C2-N3	-5.66	1.31	1.35
1	AA	369	G	C2-N3	5.66	1.37	1.32
1	AA	615	G	N9-C8	-5.66	1.33	1.37
1	AA	656	G	C8-N7	5.66	1.34	1.30
1	AA	1322	C	C4-N4	5.66	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	12	ARG	CD-NE	5.66	1.56	1.46
35	BB	213	A	C5-C4	5.66	1.42	1.38
35	BB	2363	G	C3'-C2'	5.66	1.59	1.52
35	BB	2465	C	C5-C6	-5.66	1.29	1.34
35	BB	2737	G	N7-C5	-5.66	1.35	1.39
39	BF	111	ARG	CZ-NH2	5.66	1.40	1.33
43	BJ	75	TYR	N-CA	-5.66	1.35	1.46
1	AA	387	U	O3'-P	-5.66	1.54	1.61
1	AA	724	G	C5'-C4'	-5.66	1.44	1.51
35	BB	1151	A	C4'-O4'	-5.66	1.38	1.45
1	AA	541	G	N3-C4	5.66	1.39	1.35
35	BB	340	A	P-O5'	-5.66	1.54	1.59
35	BB	593	U	C4-C5	5.66	1.48	1.43
35	BB	1047	G	C5-C6	-5.66	1.36	1.42
35	BB	1139	G	N3-C4	-5.66	1.31	1.35
35	BB	1216	G	C8-N7	-5.66	1.27	1.30
35	BB	1483	G	C5-C4	-5.66	1.34	1.38
35	BB	1777	U	C3'-O3'	5.66	1.50	1.42
35	BB	2039	U	P-O5'	-5.66	1.54	1.59
43	BJ	37	ARG	NE-CZ	5.66	1.40	1.33
1	AA	611	C	O3'-P	-5.65	1.54	1.61
35	BB	311	A	O3'-P	-5.65	1.54	1.61
35	BB	561	G	C5'-C4'	5.65	1.58	1.51
35	BB	1959	G	C2'-C1'	-5.65	1.47	1.53
1	AA	1371	G	C2-N2	5.65	1.40	1.34
14	AN	25	GLU	CD-OE2	5.65	1.31	1.25
35	BB	1257	C	C2'-O2'	-5.65	1.34	1.41
35	BB	1649	G	C2-N2	5.65	1.40	1.34
35	BB	1822	C	C2-O2	5.65	1.29	1.24
35	BB	2183	A	C6-N6	5.65	1.38	1.33
35	BB	2565	A	C6-N6	5.65	1.38	1.33
50	BQ	10	ARG	NE-CZ	5.65	1.40	1.33
1	AA	367	U	C4'-C3'	-5.65	1.46	1.52
1	AA	413	G	C6-N1	5.65	1.43	1.39
1	AA	947	G	N9-C4	-5.65	1.33	1.38
1	AA	1197	A	C5-C6	-5.65	1.35	1.41
35	BB	674	G	C6-N1	5.65	1.43	1.39
35	BB	1410	G	N7-C5	-5.65	1.35	1.39
35	BB	2201	G	C2-N3	5.65	1.37	1.32
35	BB	2486	C	C4-C5	-5.65	1.38	1.43
1	AA	82	G	C2'-C1'	-5.65	1.47	1.53
35	BB	1124	G	C8-N7	5.65	1.34	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1327	A	C5-C4	-5.65	1.34	1.38
1	AA	40	C	C5-C6	-5.65	1.29	1.34
1	AA	153	C	O3'-P	5.65	1.68	1.61
1	AA	417	G	C2'-C1'	5.65	1.59	1.53
1	AA	514	C	N1-C6	5.65	1.40	1.37
1	AA	540	G	C2-N3	5.65	1.37	1.32
1	AA	917	G	O3'-P	-5.65	1.54	1.61
1	AA	1328	C	O3'-P	-5.65	1.54	1.61
35	BB	354	A	N9-C4	-5.65	1.34	1.37
44	BK	17	ARG	CZ-NH2	5.65	1.40	1.33
1	AA	890	G	C4'-O4'	-5.65	1.38	1.45
25	B0	14	GLY	CA-C	-5.65	1.42	1.51
35	BB	137	U	C2-N3	5.65	1.41	1.37
35	BB	1085	A	O3'-P	-5.65	1.54	1.61
35	BB	1480	C	C5'-C4'	5.65	1.58	1.51
35	BB	1516	G	C5-C4	5.65	1.42	1.38
35	BB	2539	C	O4'-C1'	-5.65	1.34	1.41
1	AA	84	U	C2'-C1'	5.64	1.59	1.53
1	AA	724	G	N3-C4	-5.64	1.31	1.35
1	AA	1481	U	N1-C6	-5.64	1.32	1.38
35	BB	367	G	C2'-C1'	-5.64	1.47	1.53
35	BB	1162	G	C2-N2	5.64	1.40	1.34
35	BB	1507	C	C1'-N1	5.64	1.57	1.48
35	BB	1814	G	C4'-O4'	5.64	1.52	1.45
35	BB	1866	A	O4'-C1'	5.64	1.49	1.41
35	BB	1975	G	C2'-C1'	-5.64	1.47	1.53
35	BB	2029	G	N9-C4	-5.64	1.33	1.38
35	BB	2366	A	C6-N1	-5.64	1.31	1.35
35	BB	2703	C	C1'-N1	5.64	1.57	1.48
1	AA	422	C	N3-C4	5.64	1.38	1.33
1	AA	847	G	C8-N7	-5.64	1.27	1.30
30	B5	134	ARG	CD-NE	5.64	1.56	1.46
35	BB	175	G	N3-C4	-5.64	1.31	1.35
35	BB	455	C	C2-N3	5.64	1.40	1.35
35	BB	1168	G	C4'-C3'	5.64	1.59	1.53
35	BB	2804	U	C5'-C4'	5.64	1.58	1.51
1	AA	1157	A	C2'-C1'	-5.64	1.47	1.53
35	BB	899	A	P-O5'	-5.64	1.54	1.59
35	BB	2153	C	O3'-P	-5.64	1.54	1.61
35	BB	2660	A	O4'-C1'	5.64	1.49	1.41
1	AA	154	U	N1-C2	-5.64	1.33	1.38
1	AA	363	A	C3'-C2'	-5.64	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	477	C	C2'-C1'	-5.64	1.47	1.53
35	BB	848	C	C2-N3	5.64	1.40	1.35
35	BB	1130	U	O3'-P	-5.64	1.54	1.61
35	BB	1733	G	N1-C2	5.64	1.42	1.37
35	BB	1987	A	C6-N6	5.64	1.38	1.33
35	BB	2157	G	C5-C6	-5.64	1.36	1.42
35	BB	2159	G	C2'-C1'	5.64	1.59	1.53
35	BB	2371	G	N3-C4	-5.64	1.31	1.35
35	BB	2375	G	C8-N7	-5.64	1.27	1.30
35	BB	2863	C	C4-N4	5.64	1.39	1.33
1	AA	316	C	O4'-C1'	5.64	1.49	1.41
35	BB	124	G	C8-N7	-5.64	1.27	1.30
35	BB	374	A	O4'-C1'	-5.64	1.34	1.41
35	BB	1179	G	C2-N3	5.64	1.37	1.32
1	AA	588	G	C2-N3	5.64	1.37	1.32
1	AA	991	U	N1-C2	5.64	1.43	1.38
1	AA	1479	C	N1-C6	-5.64	1.33	1.37
34	BA	102	G	C2'-C1'	-5.64	1.47	1.53
35	BB	33	C	O4'-C1'	5.64	1.49	1.41
35	BB	449	A	C2'-C1'	-5.64	1.47	1.53
35	BB	1051	G	C2'-C1'	-5.64	1.47	1.53
35	BB	1901	A	N3-C4	-5.64	1.31	1.34
35	BB	2046	G	N3-C4	-5.64	1.31	1.35
35	BB	2485	G	C6-N1	5.64	1.43	1.39
1	AA	6	G	P-O5'	-5.63	1.54	1.59
1	AA	1013	G	C4'-O4'	-5.63	1.38	1.45
1	AA	1032	G	N9-C8	-5.63	1.33	1.37
1	AA	1257	A	O3'-P	-5.63	1.54	1.61
35	BB	340	A	C8-N7	-5.63	1.27	1.31
35	BB	544	C	C2-N3	5.63	1.40	1.35
35	BB	816	C	C3'-C2'	-5.63	1.46	1.52
35	BB	859	G	N7-C5	-5.63	1.35	1.39
35	BB	1276	A	N7-C5	-5.63	1.35	1.39
35	BB	1567	G	C2-N2	-5.63	1.28	1.34
35	BB	1817	G	C1'-N9	5.63	1.57	1.48
35	BB	1957	C	C4-N4	5.63	1.39	1.33
35	BB	2003	A	C2-N3	5.63	1.38	1.33
35	BB	2194	U	C2-O2	5.63	1.27	1.22
35	BB	195	A	N3-C4	-5.63	1.31	1.34
35	BB	892	A	C3'-C2'	5.63	1.59	1.52
35	BB	1446	C	N1-C6	-5.63	1.33	1.37
35	BB	2369	A	C6-N1	5.63	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	147	G	C2-N2	5.63	1.40	1.34
1	AA	328	C	C4'-O4'	5.63	1.52	1.45
1	AA	840	C	O3'-P	-5.63	1.54	1.61
1	AA	949	A	N3-C4	5.63	1.38	1.34
1	AA	1318	A	C6-N6	5.63	1.38	1.33
35	BB	167	A	C8-N7	-5.63	1.27	1.31
35	BB	542	C	C4-N4	5.63	1.39	1.33
35	BB	928	A	C8-N7	5.63	1.35	1.31
35	BB	1059	G	O3'-P	-5.63	1.54	1.61
35	BB	1146	C	N3-C4	5.63	1.37	1.33
35	BB	1321	A	C3'-C2'	5.63	1.59	1.52
35	BB	1986	C	N3-C4	5.63	1.37	1.33
35	BB	2268	A	N7-C5	-5.63	1.35	1.39
35	BB	2316	G	C2-N3	5.63	1.37	1.32
1	AA	149	A	N7-C5	-5.63	1.35	1.39
1	AA	210	C	N1-C6	-5.63	1.33	1.37
35	BB	334	C	P-O5'	-5.63	1.54	1.59
35	BB	443	A	C6-N1	5.63	1.39	1.35
35	BB	1917	U	C4'-O4'	5.63	1.52	1.45
1	AA	323	U	C1'-N1	5.63	1.57	1.48
1	AA	449	G	C5-C4	-5.63	1.34	1.38
1	AA	559	A	C5'-C4'	-5.63	1.44	1.51
1	AA	975	A	O3'-P	-5.63	1.54	1.61
1	AA	1076	U	C2-N3	-5.63	1.33	1.37
1	AA	1100	C	C2-O2	-5.63	1.19	1.24
1	AA	1159	U	C5'-C4'	5.63	1.58	1.51
1	AA	1490	U	N1-C2	-5.63	1.33	1.38
17	AQ	26	ARG	CZ-NH1	5.63	1.40	1.33
35	BB	855	G	N3-C4	-5.63	1.31	1.35
35	BB	1126	A	N9-C8	5.63	1.42	1.37
35	BB	2456	C	C5-C6	-5.63	1.29	1.34
35	BB	2668	G	N3-C4	-5.63	1.31	1.35
1	AA	1056	U	N1-C2	5.63	1.43	1.38
1	AA	1065	U	C5'-C4'	5.63	1.58	1.51
35	BB	630	G	O3'-P	-5.63	1.54	1.61
35	BB	974	G	C2-N3	5.63	1.37	1.32
35	BB	1020	A	C5'-C4'	5.63	1.58	1.51
35	BB	1491	G	N9-C4	5.63	1.42	1.38
35	BB	1867	G	N9-C8	5.63	1.41	1.37
35	BB	1874	C	C5'-C4'	5.63	1.58	1.51
35	BB	1967	C	N1-C6	-5.63	1.33	1.37
35	BB	1997	C	C4-N4	5.63	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2028	U	C5-C6	-5.63	1.29	1.34
35	BB	2881	U	C4'-O4'	-5.63	1.38	1.45
40	BG	60	GLY	CA-C	-5.63	1.42	1.51
1	AA	1166	G	C8-N7	5.62	1.34	1.30
35	BB	19	A	N9-C4	5.62	1.41	1.37
35	BB	651	G	C5-C4	5.62	1.42	1.38
35	BB	1299	G	P-O5'	-5.62	1.54	1.59
1	AA	674	G	C6-N1	5.62	1.43	1.39
1	AA	1159	U	C4-C5	5.62	1.48	1.43
1	AA	1333	A	C5-C4	5.62	1.42	1.38
35	BB	320	A	N9-C8	5.62	1.42	1.37
35	BB	679	C	C4'-C3'	5.62	1.59	1.53
35	BB	2121	G	C2-N3	5.62	1.37	1.32
1	AA	1167	A	C4'-O4'	5.62	1.52	1.45
1	AA	1279	G	O3'-P	-5.62	1.54	1.61
1	AA	1418	A	C6-N6	5.62	1.38	1.33
35	BB	769	U	C4-O4	-5.62	1.19	1.23
35	BB	1091	G	P-O5'	5.62	1.65	1.59
35	BB	1142	A	C3'-C2'	-5.62	1.46	1.52
35	BB	1348	C	N1-C6	5.62	1.40	1.37
35	BB	1494	A	N7-C5	-5.62	1.35	1.39
35	BB	1534	U	C3'-O3'	5.62	1.50	1.42
35	BB	2361	G	C5-C4	-5.62	1.34	1.38
35	BB	104	A	N9-C4	-5.62	1.34	1.37
35	BB	514	A	C4'-O4'	5.62	1.52	1.45
35	BB	357	C	C2'-C1'	-5.62	1.47	1.53
35	BB	698	C	N3-C4	5.62	1.37	1.33
35	BB	1244	A	C5-C4	5.62	1.42	1.38
35	BB	1318	U	C2-N3	5.62	1.41	1.37
35	BB	1407	G	P-O5'	-5.62	1.54	1.59
35	BB	1549	A	P-O5'	-5.62	1.54	1.59
35	BB	1595	C	C2-O2	5.62	1.29	1.24
35	BB	2115	G	C5-C6	-5.62	1.36	1.42
1	AA	129	A	N9-C8	5.62	1.42	1.37
35	BB	1266	G	C4'-O4'	5.62	1.52	1.45
35	BB	2704	C	N3-C4	5.62	1.37	1.33
1	AA	1160	G	C6-N1	5.62	1.43	1.39
4	AD	153	ARG	NE-CZ	5.62	1.40	1.33
35	BB	451	U	N3-C4	5.62	1.43	1.38
35	BB	841	G	N9-C4	5.62	1.42	1.38
35	BB	1263	U	O3'-P	-5.62	1.54	1.61
35	BB	1578	U	O3'-P	-5.62	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2827	C	C2-N3	5.62	1.40	1.35
52	BS	8	ARG	CZ-NH2	5.62	1.40	1.33
1	AA	577	G	C6-N1	5.61	1.43	1.39
1	AA	759	A	C8-N7	5.61	1.35	1.31
1	AA	1171	A	C8-N7	5.61	1.35	1.31
35	BB	159	G	N9-C4	5.61	1.42	1.38
35	BB	559	G	C5'-C4'	5.61	1.58	1.51
35	BB	1149	G	N9-C8	-5.61	1.33	1.37
48	BO	25	ARG	CZ-NH1	5.61	1.40	1.33
9	AI	84	ARG	CD-NE	5.61	1.55	1.46
35	BB	980	A	N9-C4	-5.61	1.34	1.37
35	BB	2428	G	N9-C8	5.61	1.41	1.37
1	AA	104	G	N7-C5	-5.61	1.35	1.39
1	AA	245	U	P-O5'	5.61	1.65	1.59
1	AA	1478	U	C3'-C2'	-5.61	1.46	1.52
10	AJ	13	PHE	CB-CG	5.61	1.60	1.51
34	BA	86	G	C2-N2	5.61	1.40	1.34
35	BB	197	A	C6-N6	5.61	1.38	1.33
35	BB	936	A	N1-C2	-5.61	1.29	1.34
35	BB	1463	C	N1-C6	5.61	1.40	1.37
35	BB	1474	U	P-O5'	-5.61	1.54	1.59
35	BB	1723	G	C2-N2	5.61	1.40	1.34
35	BB	1743	G	C8-N7	5.61	1.34	1.30
35	BB	1973	G	N1-C2	5.61	1.42	1.37
35	BB	2061	G	N1-C2	5.61	1.42	1.37
37	BD	169	ARG	CZ-NH2	5.61	1.40	1.33
1	AA	268	U	N3-C4	5.61	1.43	1.38
1	AA	1279	G	N9-C8	5.61	1.41	1.37
35	BB	342	A	O4'-C1'	5.61	1.49	1.41
35	BB	706	A	N9-C4	-5.61	1.34	1.37
35	BB	2333	A	N7-C5	5.61	1.42	1.39
38	BE	40	ARG	NE-CZ	5.61	1.40	1.33
1	AA	105	G	C2-N3	5.61	1.37	1.32
1	AA	833	G	C6-N1	5.61	1.43	1.39
1	AA	1160	G	C2-N2	5.61	1.40	1.34
22	AV	6	C	C3'-C2'	5.61	1.59	1.52
35	BB	7	G	N1-C2	5.61	1.42	1.37
35	BB	235	U	C4'-C3'	-5.61	1.47	1.52
35	BB	590	A	C4'-O4'	5.61	1.52	1.45
35	BB	1011	G	C3'-C2'	-5.61	1.46	1.52
35	BB	1242	U	C2-N3	-5.61	1.33	1.37
35	BB	1323	C	O3'-P	-5.61	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1356	G	C3'-O3'	5.61	1.50	1.42
35	BB	1466	U	C1'-N1	-5.61	1.39	1.46
35	BB	1931	U	C2'-C1'	-5.61	1.47	1.53
35	BB	1935	G	N9-C8	5.61	1.41	1.37
35	BB	2854	G	C5'-C4'	5.61	1.58	1.51
1	AA	438	U	C2-N3	5.61	1.41	1.37
1	AA	632	U	C2-O2	5.61	1.27	1.22
1	AA	1086	U	C4'-C3'	-5.61	1.47	1.52
6	AF	12	PRO	N-CD	-5.61	1.40	1.47
35	BB	56	A	O4'-C1'	-5.61	1.34	1.41
35	BB	921	C	C5-C6	-5.61	1.29	1.34
35	BB	1095	A	C5'-C4'	5.61	1.58	1.51
35	BB	2226	C	C5-C6	-5.61	1.29	1.34
1	AA	680	C	O3'-P	-5.60	1.54	1.61
35	BB	291	G	C3'-O3'	5.60	1.50	1.42
1	AA	313	A	N9-C8	5.60	1.42	1.37
1	AA	907	A	C1'-N9	5.60	1.57	1.48
1	AA	1178	G	C5-C4	5.60	1.42	1.38
22	AV	69	G	C8-N7	-5.60	1.27	1.30
35	BB	354	A	N3-C4	-5.60	1.31	1.34
35	BB	903	C	C5'-C4'	-5.60	1.44	1.51
35	BB	1595	C	N1-C2	5.60	1.45	1.40
35	BB	2222	C	C4-N4	5.60	1.39	1.33
35	BB	2366	A	N9-C4	5.60	1.41	1.37
35	BB	2471	A	C6-N6	5.60	1.38	1.33
1	AA	128	G	O4'-C1'	-5.60	1.34	1.41
1	AA	161	A	N9-C4	-5.60	1.34	1.37
1	AA	341	C	N1-C6	-5.60	1.33	1.37
34	BA	73	A	C5'-C4'	5.60	1.58	1.51
35	BB	2001	C	N3-C4	5.60	1.37	1.33
35	BB	2255	G	C4'-O4'	5.60	1.52	1.45
35	BB	2829	A	N7-C5	-5.60	1.35	1.39
35	BB	2853	C	C2-O2	5.60	1.29	1.24
1	AA	541	G	C8-N7	-5.60	1.27	1.30
1	AA	889	A	C6-N1	5.60	1.39	1.35
1	AA	1102	A	C5-C6	5.60	1.46	1.41
7	AG	3	ARG	CD-NE	5.60	1.55	1.46
21	AU	17	ARG	NE-CZ	5.60	1.40	1.33
35	BB	189	G	C6-N1	5.60	1.43	1.39
35	BB	420	C	C4-N4	5.60	1.39	1.33
35	BB	1008	A	C2-N3	5.60	1.38	1.33
35	BB	1142	A	N1-C2	5.60	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1560	G	C6-O6	-5.60	1.19	1.24
35	BB	1613	G	P-O5'	-5.60	1.54	1.59
35	BB	1773	A	C3'-C2'	-5.60	1.46	1.52
35	BB	2207	C	N1-C6	5.60	1.40	1.37
35	BB	2526	G	C2'-C1'	-5.60	1.47	1.53
35	BB	2552	U	C2'-C1'	-5.60	1.47	1.53
35	BB	2604	U	C2-N3	5.60	1.41	1.37
1	AA	331	G	N9-C8	5.60	1.41	1.37
1	AA	484	G	C4'-C3'	5.60	1.59	1.53
1	AA	640	A	N7-C5	-5.60	1.35	1.39
1	AA	843	U	C2-O2	5.60	1.27	1.22
1	AA	906	A	N1-C2	5.60	1.39	1.34
1	AA	1081	A	C6-N6	5.60	1.38	1.33
35	BB	326	G	O3'-P	-5.60	1.54	1.61
35	BB	494	G	C4'-O4'	-5.60	1.38	1.45
35	BB	581	C	C2'-C1'	5.60	1.59	1.53
35	BB	830	G	C4'-O4'	-5.60	1.38	1.45
35	BB	843	G	C3'-C2'	-5.60	1.46	1.52
35	BB	2422	C	C4-N4	5.60	1.39	1.33
35	BB	2567	G	C5'-C4'	5.60	1.58	1.51
35	BB	2887	A	C5-C4	5.60	1.42	1.38
1	AA	617	G	N1-C2	5.60	1.42	1.37
1	AA	983	A	C6-N6	5.60	1.38	1.33
35	BB	370	G	C5'-C4'	5.60	1.58	1.51
35	BB	2146	C	O3'-P	-5.60	1.54	1.61
1	AA	1317	C	C4-C5	5.59	1.47	1.43
1	AA	1425	U	C4'-C3'	-5.59	1.47	1.52
35	BB	10	A	N9-C8	5.59	1.42	1.37
35	BB	377	G	C2'-C1'	-5.59	1.47	1.53
35	BB	519	U	C2'-C1'	-5.59	1.47	1.53
35	BB	1007	C	N3-C4	5.59	1.37	1.33
35	BB	1122	G	N9-C8	5.59	1.41	1.37
35	BB	2120	G	N3-C4	-5.59	1.31	1.35
35	BB	2182	U	N3-C4	5.59	1.43	1.38
35	BB	2280	G	C5'-C4'	5.59	1.58	1.51
35	BB	2577	A	N1-C2	5.59	1.39	1.34
1	AA	1491	G	N3-C4	5.59	1.39	1.35
18	AR	63	TYR	CE2-CZ	5.59	1.45	1.38
22	AV	76	A	N1-C2	-5.59	1.29	1.34
35	BB	16	C	N1-C6	5.59	1.40	1.37
35	BB	547	A	C8-N7	-5.59	1.27	1.31
35	BB	1746	A	C6-N6	5.59	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2246	G	N9-C4	-5.59	1.33	1.38
46	BM	6	ARG	CZ-NH1	5.59	1.40	1.33
46	BM	81	ARG	CD-NE	5.59	1.55	1.46
1	AA	165	G	C8-N7	-5.59	1.27	1.30
1	AA	434	U	C2-N3	5.59	1.41	1.37
1	AA	537	G	C5-C4	5.59	1.42	1.38
35	BB	234	U	C2'-C1'	-5.59	1.47	1.53
35	BB	1555	G	C5-C6	5.59	1.48	1.42
35	BB	1763	G	N1-C2	5.59	1.42	1.37
35	BB	1978	A	O3'-P	5.59	1.67	1.61
35	BB	2080	A	N1-C2	5.59	1.39	1.34
35	BB	2306	C	O5'-C5'	5.59	1.53	1.44
1	AA	148	G	N9-C8	5.59	1.41	1.37
1	AA	344	A	C2-N3	-5.59	1.28	1.33
1	AA	423	G	O3'-P	-5.59	1.54	1.61
1	AA	608	A	N3-C4	-5.59	1.31	1.34
1	AA	1087	G	C6-N1	5.59	1.43	1.39
1	AA	1395	C	N1-C6	-5.59	1.33	1.37
1	AA	1449	C	C4-N4	5.59	1.39	1.33
35	BB	223	A	N7-C5	-5.59	1.35	1.39
35	BB	304	U	N3-C4	5.59	1.43	1.38
35	BB	857	G	C8-N7	-5.59	1.27	1.30
35	BB	1505	A	C5-C4	5.59	1.42	1.38
1	AA	269	C	N3-C4	5.59	1.37	1.33
22	AV	1	C	C3'-C2'	-5.59	1.46	1.52
34	BA	32	U	C2-N3	5.59	1.41	1.37
35	BB	2873	A	N7-C5	-5.59	1.35	1.39
1	AA	118	U	P-O5'	-5.59	1.54	1.59
1	AA	169	C	N1-C2	5.59	1.45	1.40
1	AA	626	G	C5-C4	5.59	1.42	1.38
1	AA	674	G	N9-C8	-5.59	1.33	1.37
1	AA	1157	A	C3'-O3'	5.59	1.50	1.42
1	AA	1166	G	C5'-C4'	5.59	1.58	1.51
34	BA	75	G	P-O5'	-5.59	1.54	1.59
35	BB	16	C	P-O5'	-5.59	1.54	1.59
35	BB	369	U	C4'-O4'	-5.59	1.38	1.45
35	BB	438	G	N7-C5	5.59	1.42	1.39
35	BB	481	G	C4'-C3'	5.59	1.59	1.53
35	BB	1403	A	C8-N7	-5.59	1.27	1.31
35	BB	2373	G	C2-N2	-5.59	1.28	1.34
35	BB	2670	A	N7-C5	-5.59	1.35	1.39
35	BB	2748	A	N7-C5	-5.59	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2799	A	C2-N3	5.59	1.38	1.33
1	AA	690	G	C5-C4	5.58	1.42	1.38
1	AA	1296	C	N3-C4	5.58	1.37	1.33
35	BB	459	U	C5'-C4'	5.58	1.58	1.51
35	BB	1699	G	N3-C4	-5.58	1.31	1.35
35	BB	2159	G	C4'-C3'	5.58	1.59	1.53
35	BB	2609	U	C4'-O4'	5.58	1.52	1.45
35	BB	2745	C	P-O5'	-5.58	1.54	1.59
35	BB	2843	G	N9-C8	5.58	1.41	1.37
1	AA	760	G	N1-C2	5.58	1.42	1.37
1	AA	1351	U	C5-C6	5.58	1.39	1.34
1	AA	1387	G	N3-C4	-5.58	1.31	1.35
35	BB	1	G	N7-C5	-5.58	1.35	1.39
35	BB	103	A	O3'-P	-5.58	1.54	1.61
35	BB	668	A	C2'-O2'	-5.58	1.34	1.41
35	BB	879	G	C2'-C1'	-5.58	1.47	1.53
35	BB	1645	G	C5'-C4'	5.58	1.58	1.51
35	BB	1734	G	C2'-C1'	-5.58	1.47	1.53
35	BB	2155	U	O3'-P	-5.58	1.54	1.61
35	BB	2336	A	O3'-P	-5.58	1.54	1.61
35	BB	2355	G	P-O5'	-5.58	1.54	1.59
1	AA	202	G	N3-C4	-5.58	1.31	1.35
1	AA	358	U	N1-C2	-5.58	1.33	1.38
1	AA	1048	G	C4'-C3'	-5.58	1.47	1.52
1	AA	1371	G	N3-C4	-5.58	1.31	1.35
35	BB	432	A	N7-C5	-5.58	1.35	1.39
35	BB	673	C	C4-C5	5.58	1.47	1.43
35	BB	777	G	C6-O6	5.58	1.29	1.24
35	BB	918	A	C3'-C2'	5.58	1.59	1.52
35	BB	1816	C	N1-C6	-5.58	1.33	1.37
35	BB	1921	G	P-O5'	-5.58	1.54	1.59
35	BB	2187	U	C4'-O4'	5.58	1.52	1.45
35	BB	2607	G	C4'-C3'	5.58	1.59	1.53
35	BB	2702	G	C8-N7	-5.58	1.27	1.30
35	BB	2750	A	C2-N3	5.58	1.38	1.33
35	BB	2839	G	N9-C8	-5.58	1.33	1.37
37	BD	3	GLY	N-CA	-5.58	1.37	1.46
1	AA	865	A	N7-C5	-5.58	1.35	1.39
16	AP	70	ARG	CZ-NH2	5.58	1.40	1.33
35	BB	328	U	P-O5'	-5.58	1.54	1.59
35	BB	2285	C	C2'-C1'	-5.58	1.47	1.53
35	BB	2828	G	O4'-C1'	5.58	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	39	G	C2-N2	5.58	1.40	1.34
1	AA	232	G	C2-N2	5.58	1.40	1.34
1	AA	297	G	N9-C4	5.58	1.42	1.38
1	AA	576	C	C4-N4	5.58	1.39	1.33
1	AA	615	G	N9-C4	5.58	1.42	1.38
1	AA	1517	G	N1-C2	5.58	1.42	1.37
35	BB	85	G	N3-C4	-5.58	1.31	1.35
35	BB	1750	G	N7-C5	-5.58	1.35	1.39
35	BB	2406	A	N1-C2	-5.58	1.29	1.34
1	AA	128	G	C2-N2	5.58	1.40	1.34
1	AA	171	A	N3-C4	5.58	1.38	1.34
1	AA	360	G	C5-C6	-5.58	1.36	1.42
1	AA	1038	C	C2-N3	5.58	1.40	1.35
35	BB	659	G	C5-C4	5.58	1.42	1.38
35	BB	727	A	O3'-P	-5.58	1.54	1.61
35	BB	1063	G	C1'-N9	5.58	1.57	1.48
35	BB	1835	G	C3'-C2'	-5.58	1.46	1.52
35	BB	2216	G	N9-C8	-5.58	1.33	1.37
1	AA	678	U	C2'-C1'	-5.58	1.47	1.53
1	AA	920	U	N3-C4	5.58	1.43	1.38
35	BB	575	A	N1-C2	5.58	1.39	1.34
35	BB	820	A	C6-N6	-5.58	1.29	1.33
35	BB	1785	A	N7-C5	-5.58	1.35	1.39
35	BB	2426	A	N9-C4	5.58	1.41	1.37
35	BB	2598	A	C6-N6	5.58	1.38	1.33
35	BB	2728	U	C4'-C3'	5.58	1.59	1.53
1	AA	45	G	C2-N3	5.57	1.37	1.32
1	AA	69	G	N7-C5	-5.57	1.35	1.39
1	AA	84	U	P-O5'	-5.57	1.54	1.59
1	AA	1215	G	N1-C2	5.57	1.42	1.37
1	AA	1503	A	C4'-C3'	5.57	1.59	1.53
34	BA	33	G	N3-C4	5.57	1.39	1.35
35	BB	554	U	O3'-P	-5.57	1.54	1.61
35	BB	957	C	C3'-C2'	-5.57	1.46	1.52
35	BB	1041	G	C2'-C1'	5.57	1.59	1.53
35	BB	1226	A	C3'-O3'	5.57	1.50	1.42
35	BB	2293	G	C5-C6	-5.57	1.36	1.42
35	BB	2320	U	C4'-C3'	5.57	1.59	1.53
35	BB	2509	G	C2-N3	5.57	1.37	1.32
1	AA	1374	A	N7-C5	-5.57	1.35	1.39
9	AI	96	GLU	CD-OE1	5.57	1.31	1.25
35	BB	1029	A	C2-N3	5.57	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1339	G	C5-C6	-5.57	1.36	1.42
55	BW	58	SER	CA-CB	5.57	1.61	1.52
1	AA	494	G	C6-N1	5.57	1.43	1.39
1	AA	714	G	C5'-C4'	5.57	1.58	1.51
1	AA	801	U	C2'-C1'	-5.57	1.47	1.53
1	AA	1023	U	C4'-C3'	5.57	1.59	1.53
1	AA	1305	G	C6-N1	5.57	1.43	1.39
35	BB	140	C	N3-C4	5.57	1.37	1.33
35	BB	412	A	C6-N1	5.57	1.39	1.35
35	BB	662	G	N9-C4	-5.57	1.33	1.38
35	BB	1234	U	N3-C4	5.57	1.43	1.38
35	BB	1492	G	C5'-C4'	5.57	1.58	1.51
32	B7	7	ARG	CZ-NH2	5.57	1.40	1.33
35	BB	1285	A	C5'-C4'	5.57	1.58	1.51
35	BB	2085	U	O3'-P	-5.57	1.54	1.61
35	BB	2381	A	N3-C4	-5.57	1.31	1.34
1	AA	532	A	C5-C4	-5.57	1.34	1.38
1	AA	692	U	N1-C6	5.57	1.43	1.38
1	AA	1387	G	C6-N1	5.57	1.43	1.39
35	BB	24	G	N1-C2	5.57	1.42	1.37
35	BB	407	G	C4'-O4'	5.57	1.52	1.45
22	AV	32	A	C3'-C2'	5.57	1.59	1.52
35	BB	88	G	C5-C4	-5.57	1.34	1.38
35	BB	666	A	P-O5'	-5.57	1.54	1.59
35	BB	694	U	C3'-C2'	5.57	1.59	1.52
35	BB	1714	U	C2-N3	5.57	1.41	1.37
35	BB	2276	G	C4'-C3'	-5.57	1.47	1.52
35	BB	2858	C	C3'-O3'	5.57	1.50	1.42
35	BB	2862	G	C2-N3	5.57	1.37	1.32
44	BK	17	ARG	NE-CZ	5.57	1.40	1.33
1	AA	468	A	N9-C4	-5.56	1.34	1.37
1	AA	872	A	N9-C8	-5.56	1.33	1.37
1	AA	876	C	O3'-P	-5.56	1.54	1.61
1	AA	1423	G	C5'-C4'	-5.56	1.44	1.51
35	BB	79	C	N1-C6	5.56	1.40	1.37
35	BB	1406	U	C2'-C1'	-5.56	1.47	1.53
35	BB	2626	C	C4'-C3'	-5.56	1.47	1.52
35	BB	2735	G	C2'-C1'	-5.56	1.47	1.53
35	BB	2770	G	N7-C5	5.56	1.42	1.39
1	AA	33	A	N9-C8	-5.56	1.33	1.37
1	AA	555	U	O4'-C1'	5.56	1.48	1.41
1	AA	619	U	C2-N3	5.56	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	779	C	P-O5'	-5.56	1.54	1.59
1	AA	1107	C	C3'-C2'	-5.56	1.46	1.52
18	AR	34	GLU	CB-CG	5.56	1.62	1.52
35	BB	2129	C	C4-N4	5.56	1.39	1.33
35	BB	2300	C	C1'-N1	-5.56	1.39	1.46
35	BB	2544	G	C8-N7	-5.56	1.27	1.30
35	BB	2767	C	C1'-N1	5.56	1.57	1.48
1	AA	16	A	N3-C4	5.56	1.38	1.34
1	AA	50	A	C6-N1	5.56	1.39	1.35
35	BB	752	A	P-O5'	-5.56	1.54	1.59
35	BB	920	A	C2'-C1'	-5.56	1.47	1.53
35	BB	2052	A	N3-C4	5.56	1.38	1.34
1	AA	336	A	C5-C6	5.56	1.46	1.41
1	AA	682	G	C5'-C4'	5.56	1.58	1.51
1	AA	713	G	C6-O6	-5.56	1.19	1.24
1	AA	792	A	C6-N6	5.56	1.38	1.33
1	AA	1076	U	C4'-O4'	5.56	1.52	1.45
21	AU	34	ARG	CD-NE	5.56	1.55	1.46
34	BA	12	C	C2'-C1'	-5.56	1.47	1.53
35	BB	518	G	C6-N1	5.56	1.43	1.39
35	BB	862	G	N3-C4	-5.56	1.31	1.35
35	BB	1114	C	C4-C5	5.56	1.47	1.43
35	BB	1494	A	C5'-C4'	5.56	1.58	1.51
35	BB	1684	G	C5-C4	5.56	1.42	1.38
35	BB	2157	G	C2-N3	5.56	1.37	1.32
35	BB	2652	C	N1-C6	5.56	1.40	1.37
1	AA	209	U	C5'-C4'	5.56	1.58	1.51
1	AA	603	U	C2-N3	-5.56	1.33	1.37
1	AA	762	U	C2-N3	5.56	1.41	1.37
1	AA	855	U	C4'-C3'	-5.56	1.47	1.52
1	AA	922	G	C2'-C1'	-5.56	1.47	1.53
22	AV	68	U	C2'-C1'	-5.56	1.47	1.53
35	BB	407	G	C5-C4	5.56	1.42	1.38
35	BB	996	A	C3'-O3'	5.56	1.50	1.42
35	BB	1077	A	C5'-C4'	5.56	1.58	1.51
35	BB	1262	A	C2-N3	5.56	1.38	1.33
35	BB	2549	G	O5'-C5'	-5.56	1.33	1.42
1	AA	250	A	C2'-C1'	-5.56	1.47	1.53
1	AA	1046	A	C2'-C1'	-5.56	1.47	1.53
35	BB	639	U	C2'-C1'	-5.56	1.47	1.53
35	BB	2053	G	C6-N1	5.56	1.43	1.39
1	AA	176	C	O4'-C1'	-5.55	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	378	G	C6-N1	5.55	1.43	1.39
1	AA	1130	A	C2'-C1'	-5.55	1.47	1.53
1	AA	1323	G	N9-C4	5.55	1.42	1.38
1	AA	1350	A	C5'-C4'	5.55	1.58	1.51
35	BB	303	G	N1-C2	5.55	1.42	1.37
35	BB	970	U	C4-O4	5.55	1.28	1.23
35	BB	1486	U	N3-C4	5.55	1.43	1.38
35	BB	1738	G	C3'-O3'	5.55	1.50	1.42
35	BB	1938	A	C2-N3	5.55	1.38	1.33
35	BB	2048	G	C1'-N9	-5.55	1.39	1.46
35	BB	2521	C	C2-N3	5.55	1.40	1.35
35	BB	2554	U	C2'-C1'	-5.55	1.47	1.53
36	BC	82	TYR	CD1-CE1	5.55	1.47	1.39
1	AA	740	U	C2-N3	5.55	1.41	1.37
1	AA	1280	A	N9-C8	-5.55	1.33	1.37
1	AA	1524	C	C4-N4	5.55	1.39	1.33
35	BB	975	A	N7-C5	-5.55	1.35	1.39
35	BB	984	A	C6-N6	5.55	1.38	1.33
55	BW	26	PHE	CG-CD1	5.55	1.47	1.38
1	AA	169	C	C4-N4	5.55	1.39	1.33
1	AA	626	G	C6-N1	5.55	1.43	1.39
1	AA	1154	G	P-O5'	-5.55	1.54	1.59
34	BA	63	C	C2-N3	5.55	1.40	1.35
35	BB	290	U	C2'-C1'	-5.55	1.47	1.53
35	BB	536	G	C8-N7	5.55	1.34	1.30
35	BB	566	U	C2'-O2'	-5.55	1.34	1.41
35	BB	924	G	N7-C5	-5.55	1.35	1.39
35	BB	2190	G	C6-N1	5.55	1.43	1.39
35	BB	2397	G	C4'-C3'	5.55	1.59	1.53
1	AA	127	G	N9-C4	-5.55	1.33	1.38
1	AA	369	G	O3'-P	-5.55	1.54	1.61
1	AA	482	A	N1-C2	-5.55	1.29	1.34
1	AA	1002	G	C2-N3	5.55	1.37	1.32
1	AA	1181	G	N3-C4	5.55	1.39	1.35
1	AA	1355	G	N7-C5	-5.55	1.35	1.39
35	BB	274	C	C3'-C2'	-5.55	1.46	1.52
35	BB	361	G	C5'-C4'	5.55	1.58	1.51
35	BB	570	G	N9-C4	-5.55	1.33	1.38
35	BB	721	A	C2'-C1'	-5.55	1.47	1.53
35	BB	1062	G	C5-C4	-5.55	1.34	1.38
35	BB	1786	A	C6-N1	5.55	1.39	1.35
35	BB	2176	A	C5'-C4'	5.55	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2561	U	P-O5'	5.55	1.65	1.59
35	BB	2895	G	C5'-C4'	5.55	1.58	1.51
47	BN	90	ARG	NE-CZ	5.55	1.40	1.33
1	AA	919	A	C5-C4	5.55	1.42	1.38
35	BB	131	A	C6-N6	5.55	1.38	1.33
35	BB	448	U	C4'-C3'	5.55	1.59	1.53
35	BB	721	A	N3-C4	5.55	1.38	1.34
35	BB	1149	G	N7-C5	-5.55	1.35	1.39
35	BB	1555	G	N1-C2	5.55	1.42	1.37
35	BB	2507	C	C2-N3	5.55	1.40	1.35
35	BB	2653	U	C4'-C3'	5.55	1.59	1.53
1	AA	656	G	N9-C4	-5.55	1.33	1.38
1	AA	870	U	C4-C5	5.55	1.48	1.43
1	AA	947	G	C6-N1	5.55	1.43	1.39
35	BB	180	G	C2'-O2'	-5.55	1.34	1.41
35	BB	606	U	C4'-C3'	5.55	1.59	1.53
35	BB	793	A	C2'-C1'	-5.55	1.47	1.53
35	BB	1236	G	C5-C4	5.55	1.42	1.38
35	BB	1722	A	C2-N3	5.55	1.38	1.33
35	BB	2649	C	O3'-P	-5.55	1.54	1.61
37	BD	118	PHE	CG-CD1	5.55	1.47	1.38
1	AA	1158	C	C2-O2	-5.54	1.19	1.24
1	AA	1302	C	N1-C2	5.54	1.45	1.40
30	B5	117	SER	CA-CB	5.54	1.61	1.52
35	BB	2336	A	C2'-C1'	-5.54	1.47	1.53
35	BB	2393	U	C4'-C3'	5.54	1.59	1.53
1	AA	190	A	N7-C5	-5.54	1.35	1.39
1	AA	672	U	P-O5'	-5.54	1.54	1.59
1	AA	1141	C	C4-C5	5.54	1.47	1.43
1	AA	1493	A	C5-C4	5.54	1.42	1.38
4	AD	23	GLY	N-CA	-5.54	1.37	1.46
35	BB	89	A	C6-N6	5.54	1.38	1.33
35	BB	1074	G	C2-N2	5.54	1.40	1.34
35	BB	1162	G	C5-C6	-5.54	1.36	1.42
35	BB	1174	U	N1-C6	-5.54	1.32	1.38
35	BB	2273	A	C3'-O3'	5.54	1.50	1.42
35	BB	2723	C	C2'-C1'	-5.54	1.47	1.53
35	BB	2788	C	O3'-P	-5.54	1.54	1.61
1	AA	304	U	O4'-C1'	5.54	1.48	1.41
1	AA	349	A	C6-N1	5.54	1.39	1.35
1	AA	639	G	N7-C5	-5.54	1.35	1.39
1	AA	695	A	N9-C8	5.54	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1200	C	C4-N4	5.54	1.39	1.33
1	AA	1350	A	C4'-C3'	-5.54	1.47	1.52
35	BB	59	U	C2-O2	5.54	1.27	1.22
35	BB	401	A	C5-C6	5.54	1.46	1.41
35	BB	440	C	C3'-C2'	5.54	1.59	1.52
35	BB	713	G	N7-C5	-5.54	1.35	1.39
35	BB	750	A	O3'-P	-5.54	1.54	1.61
35	BB	799	G	N3-C4	5.54	1.39	1.35
35	BB	1130	U	C4-C5	-5.54	1.38	1.43
35	BB	1202	G	C2-N3	5.54	1.37	1.32
35	BB	1268	A	N9-C4	-5.54	1.34	1.37
35	BB	1315	C	N1-C2	5.54	1.45	1.40
35	BB	1467	U	O3'-P	-5.54	1.54	1.61
35	BB	1794	A	N3-C4	-5.54	1.31	1.34
36	BC	268	ARG	CZ-NH1	5.54	1.40	1.33
1	AA	374	A	N9-C4	5.54	1.41	1.37
1	AA	518	C	C3'-C2'	5.54	1.59	1.52
1	AA	753	A	N3-C4	5.54	1.38	1.34
1	AA	1150	A	C2'-C1'	-5.54	1.47	1.53
35	BB	1819	A	P-O5'	-5.54	1.54	1.59
35	BB	2681	C	C2-N3	5.54	1.40	1.35
1	AA	192	A	C5'-C4'	5.54	1.57	1.51
1	AA	195	A	C2-N3	5.54	1.38	1.33
35	BB	300	A	N3-C4	-5.54	1.31	1.34
35	BB	376	G	C5-C4	5.54	1.42	1.38
35	BB	501	A	N1-C2	5.54	1.39	1.34
35	BB	860	U	N3-C4	-5.54	1.33	1.38
35	BB	943	A	C5'-C4'	5.54	1.57	1.51
35	BB	1169	A	C6-N1	-5.54	1.31	1.35
35	BB	1319	C	C3'-C2'	-5.54	1.46	1.52
35	BB	1351	C	N3-C4	5.54	1.37	1.33
35	BB	1439	A	C6-N6	5.54	1.38	1.33
35	BB	1576	U	C3'-C2'	5.54	1.59	1.52
35	BB	2304	G	C6-N1	5.54	1.43	1.39
1	AA	112	G	N9-C8	-5.54	1.33	1.37
1	AA	1104	G	C5-C6	-5.54	1.36	1.42
8	AH	14	ARG	CZ-NH2	5.54	1.40	1.33
27	B2	10	ARG	NE-CZ	5.54	1.40	1.33
34	BA	92	C	C2-N3	5.54	1.40	1.35
35	BB	245	G	O3'-P	-5.54	1.54	1.61
35	BB	1526	C	C5-C6	-5.54	1.29	1.34
1	AA	372	C	N1-C2	-5.54	1.34	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	395	C	C4-C5	5.54	1.47	1.43
1	AA	589	U	N1-C6	5.54	1.43	1.38
1	AA	660	C	C2-N3	5.54	1.40	1.35
1	AA	1015	G	C5'-C4'	-5.54	1.44	1.51
35	BB	1391	U	O3'-P	-5.54	1.54	1.61
35	BB	2024	G	C3'-C2'	-5.54	1.46	1.52
35	BB	2053	G	C5-C4	-5.54	1.34	1.38
1	AA	112	G	C2'-C1'	-5.53	1.47	1.53
1	AA	174	A	C4'-C3'	5.53	1.59	1.53
1	AA	1054	C	O4'-C1'	5.53	1.48	1.41
1	AA	1256	A	C4'-C3'	-5.53	1.47	1.52
12	AL	67	GLY	N-CA	-5.53	1.37	1.46
34	BA	89	U	C3'-C2'	-5.53	1.46	1.52
35	BB	432	A	C2'-C1'	-5.53	1.47	1.53
35	BB	521	U	C4'-C3'	-5.53	1.47	1.52
35	BB	1430	G	C8-N7	-5.53	1.27	1.30
35	BB	1618	A	N7-C5	-5.53	1.35	1.39
35	BB	1706	C	C4-N4	5.53	1.39	1.33
35	BB	1724	G	N9-C8	5.53	1.41	1.37
35	BB	2448	A	N9-C4	5.53	1.41	1.37
35	BB	2616	C	N1-C2	-5.53	1.34	1.40
1	AA	188	C	C4-C5	5.53	1.47	1.43
1	AA	655	A	P-O5'	-5.53	1.54	1.59
35	BB	497	A	C6-N6	5.53	1.38	1.33
35	BB	748	G	C8-N7	5.53	1.34	1.30
35	BB	1105	U	C4-C5	5.53	1.48	1.43
35	BB	1401	G	N9-C8	-5.53	1.33	1.37
35	BB	2695	U	C5'-C4'	5.53	1.57	1.51
1	AA	142	G	C3'-C2'	5.53	1.59	1.52
1	AA	726	C	N1-C2	5.53	1.45	1.40
35	BB	1395	A	N3-C4	5.53	1.38	1.34
35	BB	2331	G	C4'-C3'	5.53	1.59	1.53
1	AA	120	A	N9-C8	5.53	1.42	1.37
35	BB	1061	U	C2'-C1'	-5.53	1.47	1.53
35	BB	1249	U	P-O5'	-5.53	1.54	1.59
35	BB	1251	C	C4-C5	-5.53	1.38	1.43
35	BB	1498	C	C2'-O2'	-5.53	1.34	1.41
35	BB	1526	C	C4'-O4'	-5.53	1.38	1.45
35	BB	2549	G	C6-N1	5.53	1.43	1.39
1	AA	75	G	C2-N3	5.53	1.37	1.32
1	AA	231	U	N1-C6	5.53	1.43	1.38
1	AA	356	A	C5'-C4'	5.53	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	540	G	C8-N7	-5.53	1.27	1.30
1	AA	720	C	C4'-C3'	-5.53	1.47	1.52
1	AA	760	G	C4'-O4'	5.53	1.52	1.45
1	AA	910	C	C1'-N1	5.53	1.57	1.48
22	AV	76	A	N9-C4	5.53	1.41	1.37
34	BA	75	G	C5-C4	-5.53	1.34	1.38
35	BB	550	C	C2-N3	5.53	1.40	1.35
35	BB	839	U	C2-O2	5.53	1.27	1.22
35	BB	1045	C	P-O5'	5.53	1.65	1.59
35	BB	2182	U	C4-C5	5.53	1.48	1.43
1	AA	229	U	C2-N3	5.53	1.41	1.37
1	AA	699	C	N1-C2	-5.53	1.34	1.40
1	AA	998	C	C4-N4	5.53	1.39	1.33
34	BA	113	C	C5-C6	5.53	1.38	1.34
35	BB	194	G	C5-C6	-5.53	1.36	1.42
35	BB	966	G	C8-N7	5.53	1.34	1.30
35	BB	1483	G	C3'-C2'	5.53	1.59	1.52
35	BB	1622	G	O4'-C1'	5.53	1.48	1.41
35	BB	1903	G	N3-C4	-5.53	1.31	1.35
35	BB	2450	A	C2-N3	5.53	1.38	1.33
35	BB	2458	G	N3-C4	-5.53	1.31	1.35
1	AA	741	G	O4'-C1'	5.52	1.48	1.41
35	BB	104	A	C5'-C4'	5.52	1.57	1.51
35	BB	715	A	N9-C4	5.52	1.41	1.37
35	BB	2537	U	C2-N3	-5.52	1.33	1.37
35	BB	2890	G	C2-N2	5.52	1.40	1.34
1	AA	970	C	C4'-O4'	5.52	1.52	1.45
1	AA	996	A	C2'-O2'	5.52	1.48	1.41
34	BA	9	G	N7-C5	-5.52	1.35	1.39
34	BA	33	G	P-O5'	-5.52	1.54	1.59
34	BA	53	A	N1-C2	5.52	1.39	1.34
35	BB	111	A	P-O5'	-5.52	1.54	1.59
35	BB	361	G	N7-C5	-5.52	1.35	1.39
35	BB	1474	U	C5-C6	5.52	1.39	1.34
35	BB	1587	G	N9-C8	5.52	1.41	1.37
35	BB	2463	C	N1-C2	5.52	1.45	1.40
35	BB	2816	G	N3-C4	-5.52	1.31	1.35
37	BD	128	ARG	CZ-NH2	5.52	1.40	1.33
41	BH	34	GLY	CA-C	-5.52	1.43	1.51
34	BA	50	A	N9-C4	-5.52	1.34	1.37
35	BB	779	U	O3'-P	-5.52	1.54	1.61
35	BB	2093	G	N9-C8	5.52	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2380	C	N3-C4	5.52	1.37	1.33
1	AA	325	A	C5'-C4'	5.52	1.57	1.51
1	AA	409	U	O3'-P	-5.52	1.54	1.61
1	AA	642	A	C8-N7	-5.52	1.27	1.31
1	AA	1401	G	C4'-C3'	-5.52	1.47	1.52
1	AA	1502	A	C6-N1	5.52	1.39	1.35
35	BB	466	A	C2'-C1'	-5.52	1.47	1.53
35	BB	580	U	C2-O2	5.52	1.27	1.22
35	BB	1112	G	N1-C2	5.52	1.42	1.37
35	BB	1698	A	C3'-C2'	5.52	1.59	1.52
35	BB	2330	G	C5-C4	5.52	1.42	1.38
35	BB	2683	C	C5-C6	5.52	1.38	1.34
35	BB	2704	C	N1-C6	5.52	1.40	1.37
1	AA	13	U	C4-O4	-5.52	1.19	1.23
1	AA	1271	A	C4'-O4'	-5.52	1.38	1.45
35	BB	699	A	C5'-C4'	5.52	1.57	1.51
35	BB	887	U	O3'-P	-5.52	1.54	1.61
35	BB	915	C	C4'-O4'	5.52	1.52	1.45
35	BB	1442	U	C2-N3	-5.52	1.33	1.37
35	BB	1735	A	N9-C4	-5.52	1.34	1.37
35	BB	2270	A	C2-N3	5.52	1.38	1.33
35	BB	2620	C	C4'-O4'	5.52	1.52	1.45
1	AA	554	A	C4'-C3'	5.52	1.59	1.53
1	AA	575	G	N1-C2	5.52	1.42	1.37
1	AA	706	A	O3'-P	-5.52	1.54	1.61
2	AB	103	TRP	CD2-CE2	-5.52	1.34	1.41
35	BB	127	A	C4'-C3'	-5.52	1.47	1.52
35	BB	172	A	C1'-N9	-5.52	1.39	1.46
35	BB	756	A	C5-C6	-5.52	1.36	1.41
35	BB	1134	A	P-O5'	-5.52	1.54	1.59
35	BB	1428	C	O3'-P	-5.52	1.54	1.61
35	BB	1523	U	C2'-C1'	-5.52	1.47	1.53
35	BB	2176	A	C5-C4	5.52	1.42	1.38
35	BB	2472	G	C2-N3	5.52	1.37	1.32
1	AA	690	G	N9-C4	-5.51	1.33	1.38
1	AA	833	G	N9-C4	-5.51	1.33	1.38
1	AA	936	C	C3'-C2'	-5.51	1.46	1.52
1	AA	1031	C	C4-C5	5.51	1.47	1.43
1	AA	1067	A	C6-N6	5.51	1.38	1.33
1	AA	1145	A	N3-C4	5.51	1.38	1.34
35	BB	1946	U	P-O5'	-5.51	1.54	1.59
35	BB	2020	A	N3-C4	-5.51	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2315	G	O3'-P	-5.51	1.54	1.61
35	BB	2610	C	C4-C5	5.51	1.47	1.43
1	AA	120	A	C2'-O2'	5.51	1.48	1.41
1	AA	189	A	N1-C2	-5.51	1.29	1.34
1	AA	389	A	O3'-P	-5.51	1.54	1.61
1	AA	807	A	P-O5'	-5.51	1.54	1.59
35	BB	997	G	C2-N3	5.51	1.37	1.32
35	BB	1457	U	C4'-O4'	5.51	1.52	1.45
35	BB	1972	G	C2-N2	5.51	1.40	1.34
1	AA	228	A	N9-C4	-5.51	1.34	1.37
1	AA	529	G	O4'-C1'	5.51	1.48	1.41
1	AA	972	C	C3'-C2'	5.51	1.59	1.52
35	BB	132	G	C2-N2	5.51	1.40	1.34
35	BB	936	A	N7-C5	-5.51	1.35	1.39
35	BB	1642	G	N9-C4	-5.51	1.33	1.38
35	BB	1897	G	C3'-C2'	5.51	1.59	1.52
35	BB	1997	C	C1'-N1	-5.51	1.39	1.46
35	BB	2526	G	C5-C4	5.51	1.42	1.38
35	BB	2668	G	C3'-C2'	5.51	1.59	1.52
1	AA	232	G	N3-C4	5.51	1.39	1.35
1	AA	310	G	C2-N3	5.51	1.37	1.32
1	AA	651	C	C4-C5	5.51	1.47	1.43
35	BB	340	A	N9-C8	-5.51	1.33	1.37
35	BB	624	C	C4-N4	5.51	1.39	1.33
35	BB	903	C	P-O5'	-5.51	1.54	1.59
35	BB	909	A	C5'-C4'	5.51	1.57	1.51
35	BB	1000	A	C5'-C4'	5.51	1.57	1.51
35	BB	1384	A	N9-C4	-5.51	1.34	1.37
35	BB	1496	A	C2'-C1'	-5.51	1.47	1.53
35	BB	2200	C	C3'-C2'	-5.51	1.46	1.52
35	BB	2337	G	N9-C4	5.51	1.42	1.38
1	AA	105	G	C4'-C3'	-5.51	1.47	1.52
1	AA	338	A	C6-N1	5.51	1.39	1.35
1	AA	1087	G	C2-N2	5.51	1.40	1.34
19	AS	28	LYS	CD-CE	5.51	1.65	1.51
35	BB	20	C	C5'-C4'	5.51	1.57	1.51
35	BB	869	G	C3'-C2'	-5.51	1.46	1.52
35	BB	1374	G	N3-C4	-5.51	1.31	1.35
35	BB	1861	G	N9-C8	5.51	1.41	1.37
35	BB	1998	A	C6-N1	-5.51	1.31	1.35
35	BB	2581	G	N3-C4	5.51	1.39	1.35
35	BB	2620	C	O5'-C5'	-5.51	1.34	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BH	25	TYR	CG-CD2	5.51	1.46	1.39
1	AA	332	G	N9-C8	-5.51	1.33	1.37
1	AA	585	G	C2'-C1'	-5.51	1.47	1.53
1	AA	602	A	C2'-C1'	-5.51	1.47	1.53
1	AA	728	A	N9-C8	5.51	1.42	1.37
1	AA	820	U	C2-N3	5.51	1.41	1.37
1	AA	898	G	C4'-C3'	-5.51	1.47	1.52
34	BA	53	A	C4'-C3'	-5.51	1.47	1.52
35	BB	4	U	P-O5'	-5.51	1.54	1.59
35	BB	35	G	N9-C8	5.51	1.41	1.37
35	BB	168	G	N3-C4	5.51	1.39	1.35
35	BB	260	G	N7-C5	-5.51	1.35	1.39
35	BB	457	A	P-O5'	-5.51	1.54	1.59
35	BB	850	U	N1-C6	-5.51	1.32	1.38
35	BB	862	G	C6-N1	-5.51	1.35	1.39
35	BB	1265	A	C5-C6	-5.51	1.36	1.41
35	BB	1736	U	N1-C6	5.51	1.43	1.38
35	BB	2789	C	N3-C4	5.51	1.37	1.33
1	AA	292	G	N7-C5	-5.50	1.35	1.39
1	AA	455	G	N3-C4	-5.50	1.31	1.35
1	AA	712	A	C8-N7	-5.50	1.27	1.31
1	AA	1506	U	C4-C5	5.50	1.48	1.43
35	BB	1622	G	C5-C6	-5.50	1.36	1.42
35	BB	1761	C	C4-N4	5.50	1.39	1.33
1	AA	86	G	C5-C4	-5.50	1.34	1.38
1	AA	491	G	C5-C4	5.50	1.42	1.38
1	AA	573	A	C6-N6	5.50	1.38	1.33
1	AA	861	G	N3-C4	-5.50	1.31	1.35
35	BB	869	G	P-O5'	-5.50	1.54	1.59
35	BB	1256	G	C4'-O4'	-5.50	1.38	1.45
35	BB	1498	C	N1-C2	5.50	1.45	1.40
35	BB	2143	C	C3'-O3'	5.50	1.49	1.42
35	BB	2461	A	C3'-C2'	-5.50	1.46	1.52
35	BB	2735	G	C5-C4	-5.50	1.34	1.38
35	BB	2739	U	C2-N3	5.50	1.41	1.37
1	AA	574	A	O4'-C1'	5.50	1.48	1.41
1	AA	1407	C	N3-C4	5.50	1.37	1.33
35	BB	745	G	C3'-C2'	-5.50	1.46	1.52
35	BB	1031	G	N9-C4	5.50	1.42	1.38
35	BB	1635	A	N3-C4	-5.50	1.31	1.34
35	BB	1694	C	C5-C6	5.50	1.38	1.34
1	AA	960	U	N3-C4	-5.50	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1163	G	P-O5'	-5.50	1.54	1.59
35	BB	1863	G	C1'-N9	-5.50	1.39	1.46
35	BB	2310	C	O3'-P	-5.50	1.54	1.61
1	AA	425	G	N9-C8	5.50	1.41	1.37
1	AA	716	A	N9-C4	-5.50	1.34	1.37
1	AA	733	G	C2'-O2'	-5.50	1.34	1.41
1	AA	746	A	C2'-C1'	-5.50	1.47	1.53
1	AA	1139	G	O3'-P	-5.50	1.54	1.61
1	AA	1299	A	C5'-C4'	5.50	1.57	1.51
35	BB	278	A	C6-N6	5.50	1.38	1.33
35	BB	284	U	C2'-C1'	-5.50	1.47	1.53
35	BB	500	G	C5-C4	5.50	1.42	1.38
35	BB	715	A	C2'-C1'	-5.50	1.47	1.53
35	BB	865	C	O4'-C1'	-5.50	1.34	1.41
35	BB	1961	C	C3'-C2'	5.50	1.58	1.52
35	BB	1977	A	N3-C4	-5.50	1.31	1.34
35	BB	2114	A	N9-C8	5.50	1.42	1.37
35	BB	2155	U	C3'-C2'	-5.50	1.46	1.52
35	BB	2399	G	C2'-C1'	-5.50	1.47	1.53
35	BB	2868	A	N3-C4	-5.50	1.31	1.34
1	AA	178	C	N3-C4	5.50	1.37	1.33
34	BA	76	G	N1-C2	5.50	1.42	1.37
35	BB	651	G	P-O5'	-5.50	1.54	1.59
35	BB	1025	G	P-O5'	-5.50	1.54	1.59
35	BB	1039	A	C3'-O3'	5.50	1.49	1.42
35	BB	2020	A	O3'-P	-5.50	1.54	1.61
1	AA	116	A	C6-N1	5.50	1.39	1.35
1	AA	487	A	O3'-P	-5.50	1.54	1.61
1	AA	1493	A	C5'-C4'	5.50	1.57	1.51
35	BB	48	G	N1-C2	5.50	1.42	1.37
35	BB	616	A	P-O5'	-5.50	1.54	1.59
35	BB	1446	C	C4'-C3'	5.50	1.59	1.53
35	BB	1516	G	C5-C6	-5.50	1.36	1.42
35	BB	2241	A	C5-C4	-5.50	1.34	1.38
35	BB	2679	A	C6-N1	5.50	1.39	1.35
1	AA	391	G	N1-C2	5.49	1.42	1.37
1	AA	528	C	P-O5'	-5.49	1.54	1.59
1	AA	780	A	C6-N6	5.49	1.38	1.33
1	AA	846	G	C8-N7	-5.49	1.27	1.30
1	AA	1289	A	N3-C4	-5.49	1.31	1.34
4	AD	43	ARG	NE-CZ	5.49	1.40	1.33
35	BB	458	G	C6-N1	5.49	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	502	A	N3-C4	-5.49	1.31	1.34
35	BB	514	A	C2'-C1'	-5.49	1.47	1.53
35	BB	547	A	C6-N6	5.49	1.38	1.33
35	BB	1669	A	N9-C4	-5.49	1.34	1.37
35	BB	1678	A	C3'-C2'	-5.49	1.46	1.52
35	BB	2636	C	N3-C4	5.49	1.37	1.33
35	BB	2796	U	O3'-P	-5.49	1.54	1.61
1	AA	1367	C	C4-C5	-5.49	1.38	1.43
35	BB	970	U	N3-C4	5.49	1.43	1.38
35	BB	1291	C	C2-O2	5.49	1.29	1.24
35	BB	2479	U	C2-O2	5.49	1.27	1.22
1	AA	716	A	O3'-P	-5.49	1.54	1.61
1	AA	840	C	C5'-C4'	5.49	1.57	1.51
1	AA	1101	A	N9-C4	-5.49	1.34	1.37
35	BB	888	C	C5-C6	5.49	1.38	1.34
35	BB	1476	U	N3-C4	5.49	1.43	1.38
35	BB	1682	G	N9-C4	-5.49	1.33	1.38
35	BB	1830	C	C4-N4	5.49	1.38	1.33
35	BB	1918	A	N1-C2	-5.49	1.29	1.34
35	BB	2061	G	O4'-C1'	5.49	1.48	1.41
35	BB	2065	C	N3-C4	5.49	1.37	1.33
35	BB	2100	G	C4'-C3'	5.49	1.59	1.53
35	BB	2164	C	C5'-C4'	5.49	1.57	1.51
35	BB	2419	U	C4-C5	5.49	1.48	1.43
35	BB	274	C	C5-C6	-5.49	1.29	1.34
35	BB	957	C	C2-O2	5.49	1.29	1.24
35	BB	1341	G	N1-C2	5.49	1.42	1.37
35	BB	1700	A	O3'-P	-5.49	1.54	1.61
35	BB	1919	A	O3'-P	5.49	1.67	1.61
35	BB	2148	G	C2-N3	5.49	1.37	1.32
35	BB	2	G	C5-C4	5.49	1.42	1.38
35	BB	1005	C	C3'-C2'	-5.49	1.46	1.52
35	BB	1577	C	C4-C5	5.49	1.47	1.43
1	AA	439	U	P-O5'	-5.49	1.54	1.59
1	AA	569	C	C5-C6	5.49	1.38	1.34
1	AA	1515	G	C2-N3	5.49	1.37	1.32
29	B4	15	GLY	CA-C	-5.49	1.43	1.51
35	BB	1032	A	N1-C2	-5.49	1.29	1.34
35	BB	1171	G	N7-C5	-5.49	1.35	1.39
35	BB	1219	U	N1-C2	-5.49	1.33	1.38
35	BB	1324	G	N1-C2	5.49	1.42	1.37
35	BB	1776	G	C5-C6	-5.49	1.36	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1804	C	O3'-P	-5.49	1.54	1.61
35	BB	1808	A	C5-C4	5.49	1.42	1.38
35	BB	2398	U	O3'-P	-5.49	1.54	1.61
35	BB	2849	U	N1-C6	5.49	1.42	1.38
1	AA	809	G	C2'-C1'	-5.48	1.47	1.53
35	BB	440	C	N1-C6	-5.48	1.33	1.37
35	BB	672	C	N1-C6	-5.48	1.33	1.37
35	BB	1213	A	N9-C8	-5.48	1.33	1.37
35	BB	2235	G	P-O5'	-5.48	1.54	1.59
35	BB	2503	A	O3'-P	-5.48	1.54	1.61
1	AA	262	A	C5'-C4'	5.48	1.57	1.51
1	AA	442	G	N9-C4	5.48	1.42	1.38
1	AA	566	G	N7-C5	-5.48	1.35	1.39
1	AA	1281	C	N1-C2	-5.48	1.34	1.40
35	BB	114	U	C4-O4	-5.48	1.19	1.23
35	BB	697	G	C2'-C1'	-5.48	1.47	1.53
35	BB	937	C	N3-C4	5.48	1.37	1.33
35	BB	1964	G	C5'-C4'	5.48	1.57	1.51
1	AA	291	U	C2'-C1'	-5.48	1.47	1.53
1	AA	473	U	N1-C2	-5.48	1.33	1.38
34	BA	32	U	C4-O4	-5.48	1.19	1.23
35	BB	142	A	N1-C2	-5.48	1.29	1.34
35	BB	363	G	C5'-C4'	5.48	1.57	1.51
35	BB	553	G	N7-C5	5.48	1.42	1.39
35	BB	896	A	N9-C8	5.48	1.42	1.37
35	BB	2774	C	O4'-C1'	5.48	1.48	1.41
35	BB	2864	G	O3'-P	-5.48	1.54	1.61
35	BB	319	G	C2'-C1'	-5.48	1.47	1.53
35	BB	2176	A	C2'-O2'	5.48	1.48	1.41
35	BB	2846	G	N3-C4	-5.48	1.31	1.35
1	AA	792	A	N7-C5	-5.48	1.35	1.39
1	AA	975	A	C6-N6	5.48	1.38	1.33
1	AA	1356	G	O3'-P	-5.48	1.54	1.61
16	AP	8	ARG	CD-NE	5.48	1.55	1.46
22	AV	69	G	C5-C6	-5.48	1.36	1.42
34	BA	80	U	C5'-C4'	5.48	1.57	1.51
35	BB	700	G	N3-C4	-5.48	1.31	1.35
35	BB	2009	A	C5'-C4'	5.48	1.57	1.51
35	BB	2529	G	C2-N2	5.48	1.40	1.34
35	BB	2721	A	O3'-P	-5.48	1.54	1.61
1	AA	235	C	C2'-C1'	-5.48	1.47	1.53
34	BA	77	U	O3'-P	-5.48	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1497	U	N1-C2	5.48	1.43	1.38
35	BB	2442	C	C4-N4	5.48	1.38	1.33
1	AA	914	A	C2'-C1'	-5.47	1.47	1.53
1	AA	1027	C	C5-C6	-5.47	1.29	1.34
19	AS	79	TYR	CD2-CE2	5.47	1.47	1.39
35	BB	281	C	C4'-O4'	-5.47	1.38	1.45
35	BB	691	C	C3'-C2'	-5.47	1.46	1.52
35	BB	838	C	C4-C5	5.47	1.47	1.43
35	BB	960	A	P-O5'	-5.47	1.54	1.59
35	BB	1071	G	C2'-C1'	-5.47	1.47	1.53
35	BB	1170	C	C2-N3	5.47	1.40	1.35
35	BB	1547	C	C5'-C4'	5.47	1.57	1.51
35	BB	1852	U	C4'-O4'	-5.47	1.38	1.45
35	BB	2502	G	C8-N7	5.47	1.34	1.30
35	BB	2615	U	C4-C5	5.47	1.48	1.43
56	BY	76	ARG	CZ-NH2	5.47	1.40	1.33
1	AA	1413	A	N9-C4	5.47	1.41	1.37
1	AA	1461	G	C2-N3	5.47	1.37	1.32
11	AK	105	ARG	CZ-NH2	5.47	1.40	1.33
35	BB	730	A	O4'-C1'	-5.47	1.34	1.41
35	BB	1154	G	C2-N3	5.47	1.37	1.32
35	BB	1270	C	C3'-O3'	5.47	1.49	1.42
35	BB	1610	A	C5-C4	-5.47	1.34	1.38
35	BB	1740	G	P-O5'	-5.47	1.54	1.59
35	BB	1787	A	P-O5'	-5.47	1.54	1.59
35	BB	2836	U	N1-C6	5.47	1.42	1.38
1	AA	177	G	C2-N2	5.47	1.40	1.34
1	AA	1193	G	N3-C4	-5.47	1.31	1.35
1	AA	1422	G	O4'-C1'	-5.47	1.34	1.41
34	BA	108	A	C6-N6	5.47	1.38	1.33
35	BB	63	A	C4'-C3'	5.47	1.59	1.53
35	BB	937	C	P-O5'	-5.47	1.54	1.59
35	BB	1520	U	C4-C5	5.47	1.48	1.43
35	BB	1760	C	N1-C6	5.47	1.40	1.37
35	BB	668	A	C4'-C3'	5.47	1.59	1.53
35	BB	1418	G	C5'-C4'	5.47	1.57	1.51
1	AA	1183	U	C4-C5	5.47	1.48	1.43
35	BB	1074	G	C6-N1	5.47	1.43	1.39
35	BB	1386	C	C4-C5	5.47	1.47	1.43
35	BB	1578	U	C2'-O2'	5.47	1.48	1.41
51	BR	13	ARG	CD-NE	5.47	1.55	1.46
1	AA	447	G	C5-C4	-5.47	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1132	C	C4-C5	5.47	1.47	1.43
1	AA	1482	G	C4'-O4'	5.47	1.52	1.45
22	AV	38	U	N1-C6	5.47	1.42	1.38
22	AV	67	G	P-O5'	-5.47	1.54	1.59
35	BB	81	G	N1-C2	5.47	1.42	1.37
35	BB	303	G	C2-N3	5.47	1.37	1.32
35	BB	1918	A	C5-C6	-5.47	1.36	1.41
35	BB	2135	A	C5'-C4'	5.47	1.57	1.51
38	BE	102	ARG	CD-NE	5.47	1.55	1.46
1	AA	368	U	N1-C2	5.46	1.43	1.38
1	AA	838	G	C6-N1	5.46	1.43	1.39
1	AA	1093	A	C3'-C2'	-5.46	1.46	1.52
1	AA	1409	C	C2'-C1'	-5.46	1.47	1.53
7	AG	4	ARG	CD-NE	5.46	1.55	1.46
30	B5	208	TYR	CG-CD1	5.46	1.46	1.39
35	BB	200	U	C2-N3	5.46	1.41	1.37
35	BB	432	A	N9-C4	5.46	1.41	1.37
35	BB	725	G	C4'-C3'	5.46	1.59	1.53
35	BB	797	G	N7-C5	-5.46	1.35	1.39
35	BB	1221	C	N1-C2	-5.46	1.34	1.40
35	BB	2329	U	N1-C2	-5.46	1.33	1.38
35	BB	2733	A	C2-N3	5.46	1.38	1.33
35	BB	2866	U	C2-N3	5.46	1.41	1.37
41	BH	16	GLY	N-CA	-5.46	1.37	1.46
1	AA	212	G	C2-N3	5.46	1.37	1.32
1	AA	265	G	N1-C2	5.46	1.42	1.37
1	AA	1327	C	C2-N3	5.46	1.40	1.35
35	BB	1539	U	C4-C5	5.46	1.48	1.43
35	BB	2148	G	N7-C5	-5.46	1.35	1.39
35	BB	2294	G	C5-C6	-5.46	1.36	1.42
35	BB	2409	G	N1-C2	5.46	1.42	1.37
35	BB	2434	A	N9-C4	-5.46	1.34	1.37
1	AA	187	G	C6-N1	-5.46	1.35	1.39
1	AA	203	G	C2-N3	5.46	1.37	1.32
1	AA	463	U	N3-C4	5.46	1.43	1.38
1	AA	595	A	C5-C4	-5.46	1.34	1.38
1	AA	606	G	P-O5'	-5.46	1.54	1.59
34	BA	64	G	C3'-O3'	5.46	1.49	1.42
35	BB	429	A	C8-N7	5.46	1.35	1.31
35	BB	1789	A	N9-C8	-5.46	1.33	1.37
35	BB	2060	A	N9-C8	5.46	1.42	1.37
50	BQ	91	ARG	NE-CZ	5.46	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	697	U	C4'-C3'	5.46	1.59	1.53
1	AA	1036	A	O3'-P	-5.46	1.54	1.61
35	BB	356	G	C2'-C1'	-5.46	1.47	1.53
35	BB	559	G	C8-N7	-5.46	1.27	1.30
35	BB	806	C	C4-N4	5.46	1.38	1.33
35	BB	1673	G	C4'-C3'	5.46	1.59	1.53
35	BB	2627	G	N1-C2	5.46	1.42	1.37
35	BB	2807	U	C2-O2	5.46	1.27	1.22
35	BB	2835	A	N1-C2	-5.46	1.29	1.34
39	BF	79	ARG	CZ-NH1	5.46	1.40	1.33
1	AA	227	G	N9-C8	5.46	1.41	1.37
1	AA	697	U	N1-C6	5.46	1.42	1.38
1	AA	1272	G	C2-N3	5.46	1.37	1.32
34	BA	49	C	C4-N4	5.46	1.38	1.33
35	BB	219	A	C3'-C2'	5.46	1.58	1.52
35	BB	903	C	C5-C6	-5.46	1.29	1.34
35	BB	1514	G	C5-C4	5.46	1.42	1.38
35	BB	2212	A	C6-N6	5.46	1.38	1.33
35	BB	2861	U	C5'-C4'	5.46	1.57	1.51
36	BC	204	LEU	CA-CB	5.46	1.66	1.53
1	AA	101	A	N9-C4	5.46	1.41	1.37
1	AA	164	G	C4'-O4'	5.46	1.52	1.45
1	AA	419	C	C4-C5	5.46	1.47	1.43
1	AA	677	U	C3'-C2'	5.46	1.58	1.52
1	AA	686	U	C4-O4	5.46	1.28	1.23
1	AA	750	C	C4'-C3'	5.46	1.59	1.53
1	AA	1350	A	C6-N6	5.46	1.38	1.33
1	AA	1443	C	C2-N3	5.46	1.40	1.35
34	BA	115	A	C6-N1	-5.46	1.31	1.35
35	BB	109	C	C2-N3	5.46	1.40	1.35
35	BB	374	A	C6-N6	5.46	1.38	1.33
35	BB	999	U	C2'-C1'	-5.46	1.47	1.53
35	BB	1200	C	C3'-C2'	5.46	1.58	1.52
35	BB	1468	U	N1-C2	-5.46	1.33	1.38
35	BB	2339	C	C2-N3	5.46	1.40	1.35
35	BB	2802	G	C5-C4	-5.46	1.34	1.38
35	BB	2895	G	C6-N1	5.46	1.43	1.39
1	AA	508	U	C4'-O4'	-5.46	1.38	1.45
34	BA	107	G	N9-C4	-5.46	1.33	1.38
35	BB	1519	G	C8-N7	5.46	1.34	1.30
35	BB	1620	G	N7-C5	-5.46	1.35	1.39
46	BM	18	ARG	NE-CZ	5.46	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	85	U	C4-C5	5.45	1.48	1.43
1	AA	500	G	C8-N7	-5.45	1.27	1.30
1	AA	651	C	P-O5'	-5.45	1.54	1.59
1	AA	1395	C	C4'-C3'	5.45	1.59	1.53
35	BB	1195	G	C8-N7	-5.45	1.27	1.30
35	BB	1216	G	C6-N1	5.45	1.43	1.39
35	BB	1873	G	C2-N3	5.45	1.37	1.32
35	BB	2582	G	C5-C4	5.45	1.42	1.38
35	BB	2828	G	N3-C4	-5.45	1.31	1.35
38	BE	170	ARG	CZ-NH2	5.45	1.40	1.33
1	AA	954	G	N9-C4	-5.45	1.33	1.38
1	AA	1335	U	N1-C6	5.45	1.42	1.38
35	BB	496	G	C5-C6	-5.45	1.36	1.42
35	BB	730	A	O3'-P	-5.45	1.54	1.61
35	BB	1689	A	C2'-C1'	-5.45	1.47	1.53
1	AA	109	A	C2'-C1'	-5.45	1.47	1.53
1	AA	312	C	O4'-C1'	5.45	1.48	1.41
1	AA	515	G	C8-N7	-5.45	1.27	1.30
16	AP	51	ARG	CZ-NH1	5.45	1.40	1.33
35	BB	373	U	N1-C6	5.45	1.42	1.38
35	BB	583	G	C6-N1	5.45	1.43	1.39
35	BB	744	U	C4-O4	5.45	1.28	1.23
35	BB	810	U	C2'-C1'	-5.45	1.47	1.53
35	BB	870	U	C3'-O3'	5.45	1.49	1.42
35	BB	1140	C	C4-N4	5.45	1.38	1.33
35	BB	1691	C	N3-C4	5.45	1.37	1.33
1	AA	71	A	C8-N7	5.45	1.35	1.31
1	AA	350	G	C2-N2	5.45	1.40	1.34
1	AA	607	A	C8-N7	-5.45	1.27	1.31
1	AA	818	G	N1-C2	5.45	1.42	1.37
1	AA	1030	U	O3'-P	-5.45	1.54	1.61
1	AA	1313	U	C4'-C3'	-5.45	1.47	1.52
35	BB	313	G	N3-C4	-5.45	1.31	1.35
35	BB	552	U	C4-C5	5.45	1.48	1.43
35	BB	588	U	C2'-C1'	-5.45	1.47	1.53
35	BB	919	U	C5'-C4'	5.45	1.57	1.51
35	BB	1411	U	C3'-C2'	5.45	1.58	1.52
35	BB	2793	C	C5'-C4'	5.45	1.57	1.51
1	AA	1366	C	O3'-P	5.45	1.67	1.61
35	BB	637	A	C2'-C1'	-5.45	1.47	1.53
35	BB	726	G	C2'-C1'	-5.45	1.47	1.53
1	AA	402	G	C8-N7	5.45	1.34	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	AU	20	ARG	CZ-NH1	5.45	1.40	1.33
35	BB	29	U	C2-O2	5.45	1.27	1.22
35	BB	294	A	C5'-C4'	5.45	1.57	1.51
35	BB	554	U	C4-C5	5.45	1.48	1.43
35	BB	756	A	N1-C2	-5.45	1.29	1.34
35	BB	797	G	C3'-O3'	5.45	1.49	1.42
35	BB	958	U	C3'-C2'	-5.45	1.46	1.52
35	BB	1077	A	C2-N3	5.45	1.38	1.33
35	BB	1294	U	O3'-P	-5.45	1.54	1.61
35	BB	1295	C	C2-N3	-5.45	1.31	1.35
35	BB	1309	G	C2-N3	5.45	1.37	1.32
35	BB	1426	G	C2-N2	5.45	1.40	1.34
35	BB	1477	A	C5-C4	-5.45	1.34	1.38
35	BB	1501	G	N3-C4	-5.45	1.31	1.35
35	BB	1555	G	C5'-C4'	5.45	1.57	1.51
35	BB	1719	G	C6-N1	5.45	1.43	1.39
35	BB	2353	G	N1-C2	5.45	1.42	1.37
35	BB	2558	C	N1-C6	-5.45	1.33	1.37
35	BB	2830	C	N3-C4	5.45	1.37	1.33
1	AA	634	C	C4'-C3'	-5.44	1.47	1.52
1	AA	1317	C	P-O5'	-5.44	1.54	1.59
3	AC	57	GLU	CA-CB	-5.44	1.42	1.53
35	BB	685	A	N7-C5	-5.44	1.35	1.39
35	BB	703	U	N3-C4	5.44	1.43	1.38
1	AA	870	U	O3'-P	-5.44	1.54	1.61
1	AA	1434	A	C5-C4	5.44	1.42	1.38
28	B3	16	ARG	CZ-NH2	5.44	1.40	1.33
35	BB	248	G	N9-C4	5.44	1.42	1.38
35	BB	2066	C	N1-C6	5.44	1.40	1.37
35	BB	2112	G	O4'-C1'	5.44	1.48	1.41
1	AA	102	G	N1-C2	5.44	1.42	1.37
1	AA	291	U	C2-N3	5.44	1.41	1.37
1	AA	761	G	P-O5'	-5.44	1.54	1.59
1	AA	893	C	C3'-O3'	5.44	1.49	1.42
1	AA	1047	G	N9-C4	5.44	1.42	1.38
35	BB	28	A	N9-C4	-5.44	1.34	1.37
35	BB	228	C	C2-N3	5.44	1.40	1.35
35	BB	914	G	C5-C6	-5.44	1.36	1.42
35	BB	966	G	P-O5'	-5.44	1.54	1.59
35	BB	1090	A	C6-N1	5.44	1.39	1.35
35	BB	1138	G	N9-C4	-5.44	1.33	1.38
35	BB	1156	A	C6-N1	5.44	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1469	A	C6-N1	-5.44	1.31	1.35
35	BB	1674	G	C2-N3	5.44	1.37	1.32
35	BB	2526	G	N9-C4	-5.44	1.33	1.38
1	AA	342	C	N1-C6	5.44	1.40	1.37
1	AA	1203	C	C4'-C3'	-5.44	1.47	1.52
35	BB	217	A	N9-C8	-5.44	1.33	1.37
35	BB	900	A	O4'-C1'	5.44	1.48	1.41
35	BB	1040	A	C6-N6	5.44	1.38	1.33
35	BB	1394	U	C4-O4	-5.44	1.19	1.23
1	AA	129	A	O3'-P	-5.44	1.54	1.61
1	AA	473	U	N1-C6	5.44	1.42	1.38
1	AA	628	G	C2-N2	5.44	1.40	1.34
1	AA	770	C	P-O5'	-5.44	1.54	1.59
1	AA	1083	U	C4'-O4'	5.44	1.52	1.45
1	AA	1217	C	C5-C6	5.44	1.38	1.34
35	BB	20	C	C4-C5	5.44	1.47	1.43
35	BB	192	C	C4-C5	-5.44	1.38	1.43
35	BB	288	U	C2-N3	5.44	1.41	1.37
35	BB	439	A	O3'-P	-5.44	1.54	1.61
35	BB	501	A	O5'-C5'	-5.44	1.34	1.42
35	BB	1228	G	C3'-O3'	5.44	1.49	1.42
35	BB	1236	G	C3'-O3'	5.44	1.49	1.42
35	BB	1542	U	C4-C5	5.44	1.48	1.43
1	AA	176	C	C2'-C1'	-5.44	1.47	1.53
35	BB	1250	G	C3'-O3'	5.44	1.49	1.42
35	BB	1423	G	C2-N3	5.44	1.37	1.32
35	BB	2388	A	O3'-P	-5.44	1.54	1.61
35	BB	2876	G	C5'-C4'	5.44	1.57	1.51
1	AA	693	G	N9-C8	-5.43	1.34	1.37
1	AA	880	C	C5-C6	5.43	1.38	1.34
1	AA	1065	U	C4'-C3'	-5.43	1.47	1.52
22	AV	67	G	C5-C4	-5.43	1.34	1.38
34	BA	94	A	N9-C4	-5.43	1.34	1.37
35	BB	370	G	N9-C4	5.43	1.42	1.38
35	BB	415	A	N7-C5	-5.43	1.35	1.39
35	BB	430	A	C5-C6	-5.43	1.36	1.41
35	BB	488	G	C5-C4	5.43	1.42	1.38
35	BB	540	C	C4-N4	-5.43	1.29	1.33
35	BB	704	G	C5-C4	-5.43	1.34	1.38
35	BB	1759	A	N3-C4	-5.43	1.31	1.34
35	BB	2315	G	C5-C6	-5.43	1.36	1.42
1	AA	18	C	N1-C6	5.43	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	593	U	C1'-N1	5.43	1.56	1.48
1	AA	732	C	C1'-N1	5.43	1.56	1.48
1	AA	784	A	N9-C4	5.43	1.41	1.37
1	AA	1033	G	O4'-C1'	5.43	1.48	1.41
1	AA	1185	G	N9-C4	-5.43	1.33	1.38
1	AA	1366	C	C2-O2	5.43	1.29	1.24
4	AD	171	GLU	CD-OE1	5.43	1.31	1.25
15	AO	79	ARG	CZ-NH2	5.43	1.40	1.33
35	BB	989	G	C3'-O3'	5.43	1.49	1.42
35	BB	2145	C	C5-C6	5.43	1.38	1.34
35	BB	2294	G	N1-C2	5.43	1.42	1.37
35	BB	2742	G	N3-C4	-5.43	1.31	1.35
1	AA	514	C	O3'-P	-5.43	1.54	1.61
1	AA	763	G	C5-C4	-5.43	1.34	1.38
1	AA	890	G	C2-N3	5.43	1.37	1.32
1	AA	1457	G	C2'-C1'	-5.43	1.47	1.53
35	BB	158	U	C4-C5	-5.43	1.38	1.43
35	BB	181	A	P-O5'	5.43	1.65	1.59
35	BB	1088	A	C2-N3	5.43	1.38	1.33
35	BB	1846	G	C3'-C2'	5.43	1.58	1.52
35	BB	2512	C	C2-N3	5.43	1.40	1.35
44	BK	64	ARG	CZ-NH1	5.43	1.40	1.33
1	AA	35	G	C2-N3	5.43	1.37	1.32
1	AA	469	C	N1-C6	5.43	1.40	1.37
1	AA	625	U	C5-C6	-5.43	1.29	1.34
1	AA	769	G	C8-N7	-5.43	1.27	1.30
35	BB	23	G	C6-N1	5.43	1.43	1.39
35	BB	1144	A	C8-N7	-5.43	1.27	1.31
35	BB	1867	G	P-O5'	-5.43	1.54	1.59
35	BB	2247	A	P-O5'	-5.43	1.54	1.59
35	BB	2326	C	C3'-C2'	5.43	1.58	1.52
35	BB	2822	G	C5-C4	5.43	1.42	1.38
1	AA	11	G	C6-N1	5.43	1.43	1.39
1	AA	141	G	C5-C6	-5.43	1.36	1.42
1	AA	1166	G	N9-C8	5.43	1.41	1.37
35	BB	1067	A	N7-C5	-5.43	1.35	1.39
35	BB	1677	A	N1-C2	-5.43	1.29	1.34
35	BB	1833	C	C4-N4	5.43	1.38	1.33
35	BB	1901	A	C5-C6	-5.43	1.36	1.41
35	BB	2080	A	C6-N6	5.43	1.38	1.33
35	BB	2122	U	N1-C2	5.43	1.43	1.38
35	BB	2791	G	N9-C8	5.43	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	566	G	C2'-C1'	-5.43	1.47	1.53
1	AA	1105	A	N9-C4	-5.43	1.34	1.37
35	BB	551	G	C8-N7	-5.43	1.27	1.30
35	BB	1225	G	O3'-P	-5.43	1.54	1.61
35	BB	1832	C	C2-N3	5.43	1.40	1.35
35	BB	2040	G	C5-C4	-5.43	1.34	1.38
35	BB	2527	C	C2'-C1'	-5.43	1.47	1.53
35	BB	2775	G	C2-N3	5.43	1.37	1.32
1	AA	253	A	C5-C4	5.42	1.42	1.38
1	AA	728	A	O4'-C1'	-5.42	1.34	1.41
1	AA	1216	A	P-O5'	-5.42	1.54	1.59
1	AA	1416	G	O3'-P	-5.42	1.54	1.61
35	BB	268	C	C1'-N1	5.42	1.56	1.48
35	BB	347	A	C8-N7	-5.42	1.27	1.31
35	BB	485	C	N1-C2	5.42	1.45	1.40
35	BB	656	G	C1'-N9	-5.42	1.39	1.46
35	BB	889	C	N1-C2	5.42	1.45	1.40
35	BB	1169	A	N7-C5	-5.42	1.35	1.39
35	BB	1434	A	N1-C2	5.42	1.39	1.34
35	BB	2243	U	C4-O4	5.42	1.27	1.23
35	BB	2428	G	N3-C4	5.42	1.39	1.35
48	BO	33	ARG	CD-NE	5.42	1.55	1.46
1	AA	447	G	C2-N3	5.42	1.37	1.32
35	BB	645	C	C4-N4	5.42	1.38	1.33
35	BB	2817	U	P-O5'	-5.42	1.54	1.59
1	AA	319	G	P-O5'	-5.42	1.54	1.59
1	AA	450	G	C5-C6	-5.42	1.36	1.42
1	AA	501	C	P-O5'	-5.42	1.54	1.59
1	AA	1146	A	C2-N3	-5.42	1.28	1.33
1	AA	1379	G	C4'-C3'	-5.42	1.47	1.52
1	AA	1415	G	C6-O6	-5.42	1.19	1.24
35	BB	14	A	P-O5'	-5.42	1.54	1.59
35	BB	191	A	N9-C8	-5.42	1.33	1.37
35	BB	454	A	P-O5'	-5.42	1.54	1.59
35	BB	494	G	C6-N1	-5.42	1.35	1.39
35	BB	541	A	C5-C6	-5.42	1.36	1.41
35	BB	639	U	C4'-C3'	-5.42	1.47	1.52
35	BB	675	A	N3-C4	-5.42	1.31	1.34
35	BB	1460	U	N3-C4	5.42	1.43	1.38
35	BB	2412	A	O3'-P	-5.42	1.54	1.61
35	BB	2484	G	C2-N3	5.42	1.37	1.32
35	BB	2745	C	C3'-C2'	-5.42	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
50	BQ	12	ARG	CZ-NH2	5.42	1.40	1.33
1	AA	78	A	O3'-P	-5.42	1.54	1.61
35	BB	615	U	N1-C2	-5.42	1.33	1.38
35	BB	1538	G	N1-C2	5.42	1.42	1.37
1	AA	59	A	N3-C4	-5.42	1.31	1.34
1	AA	378	G	C5-C4	-5.42	1.34	1.38
1	AA	529	G	C8-N7	5.42	1.34	1.30
1	AA	786	G	C8-N7	5.42	1.34	1.30
1	AA	1205	U	C1'-N1	5.42	1.56	1.48
1	AA	1441	A	C5-C4	-5.42	1.34	1.38
35	BB	220	G	C6-O6	-5.42	1.19	1.24
35	BB	953	G	C8-N7	-5.42	1.27	1.30
35	BB	1111	A	C6-N6	5.42	1.38	1.33
35	BB	1413	A	C6-N6	5.42	1.38	1.33
35	BB	1833	C	N3-C4	5.42	1.37	1.33
35	BB	1949	G	C6-N1	5.42	1.43	1.39
35	BB	2171	A	N3-C4	5.42	1.38	1.34
35	BB	2468	A	C6-N6	5.42	1.38	1.33
1	AA	425	G	N9-C4	-5.42	1.33	1.38
3	AC	21	TRP	CD2-CE2	5.42	1.47	1.41
35	BB	96	C	N3-C4	5.42	1.37	1.33
35	BB	102	U	C2'-C1'	-5.42	1.47	1.53
35	BB	787	C	N1-C2	-5.42	1.34	1.40
35	BB	967	U	C3'-O3'	5.42	1.49	1.42
35	BB	1380	G	N1-C2	5.42	1.42	1.37
35	BB	1728	C	C4-N4	5.42	1.38	1.33
35	BB	2144	G	C4'-C3'	5.42	1.59	1.53
35	BB	2348	U	N1-C2	5.42	1.43	1.38
35	BB	2696	U	P-O5'	-5.42	1.54	1.59
1	AA	378	G	C6-O6	-5.42	1.19	1.24
1	AA	429	U	P-O5'	-5.42	1.54	1.59
1	AA	439	U	C2'-C1'	-5.42	1.47	1.53
34	BA	27	C	C4-C5	-5.42	1.38	1.43
35	BB	513	A	C5'-C4'	5.42	1.57	1.51
35	BB	742	A	C8-N7	-5.42	1.27	1.31
35	BB	1157	G	N7-C5	-5.42	1.36	1.39
35	BB	2430	A	C2-N3	5.42	1.38	1.33
35	BB	2564	A	N7-C5	-5.42	1.36	1.39
1	AA	203	G	N9-C4	-5.41	1.33	1.38
1	AA	376	G	C6-N1	5.41	1.43	1.39
1	AA	393	A	C2-N3	-5.41	1.28	1.33
1	AA	1410	A	P-O5'	-5.41	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	105	C	C4'-O4'	5.41	1.52	1.45
35	BB	196	A	C2'-C1'	-5.41	1.47	1.53
35	BB	1418	G	C2'-C1'	-5.41	1.47	1.53
35	BB	1746	A	O3'-P	-5.41	1.54	1.61
35	BB	2252	G	C6-O6	-5.41	1.19	1.24
35	BB	2403	C	P-O5'	5.41	1.65	1.59
35	BB	2835	A	C4'-C3'	-5.41	1.47	1.52
1	AA	338	A	N7-C5	-5.41	1.36	1.39
1	AA	1197	A	C2'-C1'	-5.41	1.47	1.53
22	AV	4	C	O4'-C1'	-5.41	1.34	1.41
34	BA	108	A	N9-C4	-5.41	1.34	1.37
35	BB	364	C	C4-C5	-5.41	1.38	1.43
35	BB	1539	U	O3'-P	-5.41	1.54	1.61
35	BB	2700	A	C2'-C1'	-5.41	1.47	1.53
1	AA	877	G	N9-C4	-5.41	1.33	1.38
1	AA	1029	U	C4-O4	5.41	1.27	1.23
35	BB	142	A	C5'-C4'	5.41	1.57	1.51
35	BB	224	U	C2-N3	5.41	1.41	1.37
35	BB	711	G	C2'-C1'	-5.41	1.47	1.53
35	BB	724	U	O3'-P	-5.41	1.54	1.61
35	BB	1572	A	N9-C8	-5.41	1.33	1.37
35	BB	1712	U	C4-C5	-5.41	1.38	1.43
35	BB	2200	C	C2-N3	-5.41	1.31	1.35
35	BB	2238	G	C5'-C4'	5.41	1.57	1.51
35	BB	2890	G	C8-N7	-5.41	1.27	1.30
1	AA	379	C	N1-C6	5.41	1.40	1.37
1	AA	574	A	N1-C2	5.41	1.39	1.34
1	AA	978	A	C5-C6	-5.41	1.36	1.41
26	B1	21	LEU	CA-CB	5.41	1.66	1.53
35	BB	53	A	N9-C8	-5.41	1.33	1.37
35	BB	1269	A	N1-C2	5.41	1.39	1.34
35	BB	1319	C	N3-C4	5.41	1.37	1.33
35	BB	2103	C	C2-N3	5.41	1.40	1.35
35	BB	2573	C	C5'-C4'	5.41	1.57	1.51
35	BB	2625	G	N3-C4	5.41	1.39	1.35
1	AA	1162	C	C2-N3	5.41	1.40	1.35
1	AA	1264	U	C4'-C3'	5.41	1.59	1.53
35	BB	1129	A	C5-C6	-5.41	1.36	1.41
35	BB	1479	G	C6-N1	-5.41	1.35	1.39
35	BB	1564	C	C3'-O3'	5.41	1.49	1.42
35	BB	2018	G	C2-N3	5.41	1.37	1.32
47	BN	119	SER	CA-CB	5.41	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	555	U	O3'-P	-5.41	1.54	1.61
1	AA	1176	A	C6-N1	5.41	1.39	1.35
1	AA	1369	C	C4-N4	5.41	1.38	1.33
1	AA	1445	U	C4-C5	-5.41	1.38	1.43
17	AQ	26	ARG	NE-CZ	5.41	1.40	1.33
34	BA	35	C	P-O5'	5.41	1.65	1.59
35	BB	1334	G	N9-C4	-5.41	1.33	1.38
35	BB	1997	C	N3-C4	5.41	1.37	1.33
35	BB	2173	A	C5-C4	5.41	1.42	1.38
43	BJ	44	TYR	N-CA	-5.41	1.35	1.46
1	AA	314	C	C2-N3	5.40	1.40	1.35
1	AA	769	G	N9-C4	-5.40	1.33	1.38
9	AI	63	TYR	CZ-OH	5.40	1.47	1.37
27	B2	55	LYS	N-CA	-5.40	1.35	1.46
35	BB	173	A	C2'-C1'	-5.40	1.47	1.53
35	BB	341	C	C3'-C2'	-5.40	1.46	1.52
35	BB	1290	C	N1-C2	-5.40	1.34	1.40
35	BB	1953	A	N3-C4	-5.40	1.31	1.34
35	BB	1972	G	C3'-O3'	5.40	1.49	1.42
35	BB	2528	U	C2'-C1'	-5.40	1.47	1.53
1	AA	592	G	N9-C4	-5.40	1.33	1.38
1	AA	1063	C	C4'-C3'	-5.40	1.47	1.52
1	AA	1355	G	C5'-C4'	-5.40	1.44	1.51
1	AA	1416	G	C3'-C2'	-5.40	1.46	1.52
35	BB	1147	A	C3'-O3'	5.40	1.49	1.42
35	BB	1160	G	C6-N1	5.40	1.43	1.39
35	BB	1518	C	C3'-C2'	-5.40	1.46	1.52
35	BB	1541	C	N3-C4	5.40	1.37	1.33
35	BB	1592	C	O4'-C1'	5.40	1.48	1.41
35	BB	1666	G	N9-C4	-5.40	1.33	1.38
35	BB	1962	C	C5-C6	-5.40	1.30	1.34
35	BB	2568	U	C5-C6	5.40	1.39	1.34
35	BB	2630	G	C4'-C3'	5.40	1.59	1.53
35	BB	2845	U	P-O5'	-5.40	1.54	1.59
1	AA	911	U	O4'-C1'	5.40	1.48	1.41
1	AA	1485	U	C2'-C1'	-5.40	1.47	1.53
35	BB	1022	G	N9-C4	-5.40	1.33	1.38
35	BB	1039	A	C6-N6	5.40	1.38	1.33
35	BB	1772	A	C3'-O3'	5.40	1.49	1.42
35	BB	1919	A	C2'-C1'	-5.40	1.47	1.53
35	BB	2502	G	N7-C5	-5.40	1.36	1.39
1	AA	388	G	C5-C6	-5.40	1.36	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1220	G	N9-C8	5.40	1.41	1.37
1	AA	1366	C	C2'-C1'	-5.40	1.47	1.53
35	BB	1277	G	C4'-C3'	5.40	1.59	1.53
35	BB	1645	G	C2'-C1'	-5.40	1.47	1.53
35	BB	1928	A	C5'-C4'	5.40	1.57	1.51
35	BB	2193	G	P-O5'	5.40	1.65	1.59
35	BB	2319	G	N1-C2	5.40	1.42	1.37
1	AA	525	C	C4'-O4'	-5.40	1.38	1.45
35	BB	240	C	N1-C2	-5.40	1.34	1.40
35	BB	808	G	C5-C4	-5.40	1.34	1.38
35	BB	1138	G	C6-N1	5.40	1.43	1.39
35	BB	1286	A	C6-N6	5.40	1.38	1.33
35	BB	1513	U	O4'-C1'	5.40	1.48	1.41
35	BB	1821	A	O4'-C1'	5.40	1.48	1.41
35	BB	2150	C	C4-N4	5.40	1.38	1.33
35	BB	2307	G	N3-C4	5.40	1.39	1.35
35	BB	2510	C	C5'-C4'	5.40	1.57	1.51
35	BB	2718	G	C5'-C4'	5.40	1.57	1.51
35	BB	2886	A	C6-N1	5.40	1.39	1.35
1	AA	55	A	C3'-O3'	5.40	1.49	1.42
1	AA	71	A	C6-N6	5.40	1.38	1.33
1	AA	402	G	C6-N1	5.40	1.43	1.39
35	BB	1224	U	N3-C4	5.40	1.43	1.38
1	AA	32	A	C6-N6	5.39	1.38	1.33
1	AA	57	G	C6-N1	5.39	1.43	1.39
1	AA	78	A	C4'-C3'	-5.39	1.47	1.52
1	AA	245	U	N3-C4	5.39	1.43	1.38
1	AA	736	C	C5'-C4'	5.39	1.57	1.51
1	AA	1225	A	C5-C6	-5.39	1.36	1.41
15	AO	5	GLU	CD-OE1	5.39	1.31	1.25
22	AV	72	G	O3'-P	-5.39	1.54	1.61
34	BA	103	U	C4-O4	-5.39	1.19	1.23
35	BB	57	C	C2'-C1'	-5.39	1.47	1.53
35	BB	559	G	N7-C5	-5.39	1.36	1.39
35	BB	1382	G	C8-N7	-5.39	1.27	1.30
35	BB	2129	C	C4-C5	5.39	1.47	1.43
35	BB	2408	U	C5-C6	5.39	1.39	1.34
1	AA	280	C	O3'-P	-5.39	1.54	1.61
1	AA	484	G	C2-N2	5.39	1.40	1.34
1	AA	973	G	P-O5'	-5.39	1.54	1.59
8	AH	64	TYR	CG-CD2	5.39	1.46	1.39
10	AJ	15	HIS	N-CA	-5.39	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1285	A	P-O5'	-5.39	1.54	1.59
35	BB	1545	A	C8-N7	-5.39	1.27	1.31
35	BB	1913	A	C2'-C1'	-5.39	1.47	1.53
1	AA	258	G	P-O5'	5.39	1.65	1.59
35	BB	325	G	P-O5'	-5.39	1.54	1.59
35	BB	1078	U	C2-O2	5.39	1.27	1.22
35	BB	1981	A	C5-C4	5.39	1.42	1.38
1	AA	468	A	P-O5'	5.39	1.65	1.59
1	AA	1079	G	C5'-C4'	5.39	1.57	1.51
1	AA	1143	G	N7-C5	-5.39	1.36	1.39
5	AE	64	GLU	CG-CD	5.39	1.60	1.51
20	AT	73	ARG	NE-CZ	5.39	1.40	1.33
22	AV	36	G	C4'-C3'	-5.39	1.47	1.52
35	BB	875	G	C8-N7	5.39	1.34	1.30
35	BB	1146	C	C3'-O3'	5.39	1.49	1.42
35	BB	1634	A	C4'-O4'	-5.39	1.38	1.45
35	BB	2494	G	C1'-N9	5.39	1.56	1.48
35	BB	2598	A	C5'-C4'	-5.39	1.44	1.51
1	AA	82	G	P-O5'	5.39	1.65	1.59
1	AA	309	A	C1'-N9	-5.39	1.39	1.46
34	BA	106	G	N9-C4	-5.39	1.33	1.38
35	BB	1081	U	C4'-O4'	-5.39	1.38	1.45
35	BB	1842	G	C1'-N9	-5.39	1.39	1.46
35	BB	2365	G	N9-C4	5.39	1.42	1.38
35	BB	2627	G	C2'-C1'	-5.39	1.47	1.53
35	BB	2860	A	C6-N6	5.39	1.38	1.33
47	BN	71	ARG	NE-CZ	5.39	1.40	1.33
1	AA	166	U	C2-N3	-5.39	1.33	1.37
1	AA	182	A	C3'-C2'	5.39	1.58	1.52
1	AA	424	G	C5'-C4'	5.39	1.57	1.51
1	AA	446	G	N9-C4	5.39	1.42	1.38
1	AA	782	A	C8-N7	-5.39	1.27	1.31
1	AA	1162	C	C5-C6	-5.39	1.30	1.34
1	AA	1428	A	N3-C4	-5.39	1.31	1.34
1	AA	1498	U	C2-N3	5.39	1.41	1.37
34	BA	33	G	C5-C4	5.39	1.42	1.38
35	BB	74	A	N9-C8	-5.39	1.33	1.37
35	BB	95	A	C6-N6	5.39	1.38	1.33
35	BB	420	C	C5'-C4'	5.39	1.57	1.51
35	BB	572	A	N9-C4	-5.39	1.34	1.37
35	BB	588	U	C2-N3	5.39	1.41	1.37
35	BB	1341	G	C2-N3	5.39	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1565	C	N1-C6	5.39	1.40	1.37
35	BB	1910	G	N7-C5	-5.39	1.36	1.39
35	BB	2041	U	N3-C4	-5.39	1.33	1.38
1	AA	27	G	N1-C2	5.38	1.42	1.37
1	AA	130	A	C5-C6	5.38	1.45	1.41
1	AA	375	U	C4-C5	-5.38	1.38	1.43
1	AA	383	A	O4'-C1'	-5.38	1.34	1.41
1	AA	791	G	C4'-C3'	-5.38	1.47	1.52
1	AA	1276	G	C6-N1	5.38	1.43	1.39
30	B5	53	ARG	CZ-NH1	5.38	1.40	1.33
35	BB	470	A	C5-C4	-5.38	1.34	1.38
35	BB	885	C	C2-O2	5.38	1.29	1.24
48	BO	16	ARG	NE-CZ	5.38	1.40	1.33
1	AA	33	A	P-O5'	-5.38	1.54	1.59
1	AA	480	U	C2-N3	5.38	1.41	1.37
1	AA	1386	G	N7-C5	-5.38	1.36	1.39
35	BB	2536	G	C2-N3	5.38	1.37	1.32
35	BB	2779	U	C4-O4	-5.38	1.19	1.23
1	AA	228	A	N3-C4	-5.38	1.31	1.34
1	AA	447	G	C4'-C3'	-5.38	1.47	1.52
1	AA	527	G	C2-N3	-5.38	1.28	1.32
1	AA	1063	C	C3'-C2'	5.38	1.58	1.52
35	BB	371	A	N7-C5	-5.38	1.36	1.39
35	BB	935	C	C2'-C1'	-5.38	1.47	1.53
35	BB	1192	G	N3-C4	5.38	1.39	1.35
35	BB	1422	G	C8-N7	5.38	1.34	1.30
35	BB	2197	U	O3'-P	-5.38	1.54	1.61
35	BB	2483	C	C4'-O4'	5.38	1.52	1.45
35	BB	2547	A	O4'-C1'	-5.38	1.34	1.41
35	BB	2597	G	N1-C2	5.38	1.42	1.37
53	BT	77	ARG	NE-CZ	5.38	1.40	1.33
1	AA	1300	G	C4'-C3'	5.38	1.59	1.53
3	AC	127	VAL	CB-CG1	5.38	1.64	1.52
35	BB	644	A	N9-C8	-5.38	1.33	1.37
1	AA	358	U	C5'-C4'	5.38	1.57	1.51
1	AA	588	G	C4'-O4'	-5.38	1.38	1.45
1	AA	660	C	C2'-C1'	-5.38	1.47	1.53
1	AA	1033	G	N9-C8	5.38	1.41	1.37
1	AA	1359	C	C2'-C1'	-5.38	1.47	1.53
35	BB	169	G	C2-N3	5.38	1.37	1.32
35	BB	204	A	C5-C4	-5.38	1.34	1.38
35	BB	477	A	O3'-P	-5.38	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	622	G	C6-N1	5.38	1.43	1.39
35	BB	649	G	C5-C6	-5.38	1.36	1.42
35	BB	1788	C	C4'-O4'	5.38	1.52	1.45
35	BB	2418	A	N1-C2	-5.38	1.29	1.34
35	BB	2792	A	N7-C5	-5.38	1.36	1.39
55	BW	19	ARG	CZ-NH1	5.38	1.40	1.33
1	AA	36	C	C3'-O3'	5.38	1.49	1.42
1	AA	268	U	C2-N3	5.38	1.41	1.37
1	AA	362	G	N9-C8	5.38	1.41	1.37
1	AA	951	G	N1-C2	5.38	1.42	1.37
1	AA	1223	C	N3-C4	5.38	1.37	1.33
35	BB	104	A	N7-C5	-5.38	1.36	1.39
35	BB	145	C	C5-C6	-5.38	1.30	1.34
35	BB	699	A	C8-N7	-5.38	1.27	1.31
35	BB	822	G	N9-C4	-5.38	1.33	1.38
35	BB	838	C	C2-N3	-5.38	1.31	1.35
35	BB	1181	U	C1'-N1	5.38	1.56	1.48
35	BB	1398	C	C2'-O2'	-5.38	1.34	1.41
35	BB	2090	A	C6-N6	5.38	1.38	1.33
35	BB	2509	G	N3-C4	5.38	1.39	1.35
1	AA	178	C	N1-C2	-5.38	1.34	1.40
1	AA	803	G	C2-N3	5.38	1.37	1.32
1	AA	830	G	N7-C5	-5.38	1.36	1.39
35	BB	27	G	C6-N1	-5.38	1.35	1.39
35	BB	539	G	C1'-N9	5.38	1.56	1.48
35	BB	580	U	C2'-O2'	-5.38	1.34	1.41
35	BB	1279	G	N1-C2	5.38	1.42	1.37
35	BB	1313	U	N1-C2	5.38	1.43	1.38
35	BB	1756	G	N9-C8	5.38	1.41	1.37
35	BB	2421	G	C8-N7	-5.38	1.27	1.30
35	BB	2478	A	C8-N7	-5.38	1.27	1.31
1	AA	44	A	C5-C6	5.37	1.45	1.41
1	AA	799	G	N9-C4	5.37	1.42	1.38
35	BB	32	C	C4-N4	-5.37	1.29	1.33
35	BB	315	G	C2-N2	5.37	1.40	1.34
35	BB	387	U	O3'-P	-5.37	1.54	1.61
35	BB	466	A	N9-C8	5.37	1.42	1.37
35	BB	922	C	C2'-C1'	-5.37	1.47	1.53
35	BB	1659	G	O4'-C1'	-5.37	1.34	1.41
35	BB	2401	U	C2'-C1'	-5.37	1.47	1.53
1	AA	452	A	N3-C4	-5.37	1.31	1.34
1	AA	454	G	C4'-C3'	5.37	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	671	G	C4'-O4'	5.37	1.52	1.45
35	BB	1250	G	C6-O6	5.37	1.28	1.24
35	BB	1359	A	O4'-C1'	-5.37	1.34	1.41
35	BB	1514	G	C2-N2	-5.37	1.29	1.34
35	BB	1525	A	C8-N7	-5.37	1.27	1.31
35	BB	2112	G	C5-C4	5.37	1.42	1.38
35	BB	2809	A	N9-C8	-5.37	1.33	1.37
35	BB	2827	C	O3'-P	-5.37	1.54	1.61
43	BJ	13	ARG	NE-CZ	5.37	1.40	1.33
43	BJ	77	HIS	N-CA	-5.37	1.35	1.46
50	BQ	44	TYR	CG-CD1	5.37	1.46	1.39
1	AA	21	G	N9-C4	-5.37	1.33	1.38
1	AA	861	G	C5-C6	-5.37	1.36	1.42
35	BB	1997	C	C2'-C1'	-5.37	1.47	1.53
35	BB	2235	G	N9-C8	5.37	1.41	1.37
35	BB	2528	U	N1-C6	5.37	1.42	1.38
1	AA	1045	C	C4'-O4'	5.37	1.52	1.45
2	AB	207	ARG	CZ-NH1	5.37	1.40	1.33
26	B1	5	GLU	CD-OE2	5.37	1.31	1.25
35	BB	740	C	C2'-C1'	-5.37	1.47	1.53
35	BB	1021	A	C5-C6	5.37	1.45	1.41
35	BB	1246	A	O4'-C1'	-5.37	1.34	1.41
35	BB	1676	A	N7-C5	-5.37	1.36	1.39
35	BB	2447	G	C2-N2	5.37	1.40	1.34
35	BB	2460	U	N3-C4	5.37	1.43	1.38
35	BB	2525	G	C2-N2	5.37	1.40	1.34
35	BB	2639	A	C8-N7	-5.37	1.27	1.31
1	AA	1407	C	O4'-C1'	5.37	1.48	1.41
35	BB	108	G	N9-C4	-5.37	1.33	1.38
35	BB	121	G	N1-C2	5.37	1.42	1.37
35	BB	1034	G	P-O5'	-5.37	1.54	1.59
35	BB	1817	G	C6-O6	-5.37	1.19	1.24
35	BB	2346	A	C4'-O4'	-5.37	1.38	1.45
35	BB	2822	G	N7-C5	-5.37	1.36	1.39
1	AA	163	C	C1'-N1	5.37	1.56	1.48
1	AA	224	U	O4'-C1'	-5.37	1.34	1.41
1	AA	395	C	O4'-C1'	5.37	1.48	1.41
1	AA	776	G	C5-C6	-5.37	1.36	1.42
1	AA	1192	C	C5'-C4'	5.37	1.57	1.51
35	BB	164	C	C1'-N1	5.37	1.56	1.48
35	BB	570	G	C2-N2	5.37	1.40	1.34
35	BB	1980	G	P-O5'	-5.37	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2734	A	C2-N3	5.37	1.38	1.33
35	BB	2854	G	C2-N2	-5.37	1.29	1.34
1	AA	477	C	N1-C6	-5.36	1.33	1.37
1	AA	553	A	P-O5'	-5.36	1.54	1.59
1	AA	761	G	C3'-C2'	-5.36	1.46	1.52
1	AA	1065	U	N3-C4	5.36	1.43	1.38
1	AA	1266	G	C8-N7	-5.36	1.27	1.30
5	AE	68	ARG	CZ-NH2	5.36	1.40	1.33
35	BB	2	G	C5-C6	-5.36	1.36	1.42
35	BB	441	U	C4-C5	5.36	1.48	1.43
35	BB	2031	A	C2'-C1'	-5.36	1.47	1.53
35	BB	2201	G	C2'-O2'	-5.36	1.34	1.41
35	BB	2309	A	C6-N6	5.36	1.38	1.33
35	BB	2373	G	C6-O6	5.36	1.28	1.24
50	BQ	63	ARG	CZ-NH2	5.36	1.40	1.33
9	AI	48	ARG	CZ-NH1	5.36	1.40	1.33
35	BB	358	U	C3'-C2'	-5.36	1.46	1.52
35	BB	385	C	C5'-C4'	5.36	1.57	1.51
35	BB	2303	G	C5'-C4'	5.36	1.57	1.51
35	BB	2755	C	C5'-C4'	5.36	1.57	1.51
1	AA	128	G	C8-N7	-5.36	1.27	1.30
1	AA	175	C	N1-C2	-5.36	1.34	1.40
1	AA	198	G	N3-C4	-5.36	1.31	1.35
1	AA	864	A	N9-C8	-5.36	1.33	1.37
1	AA	1082	A	C5-C6	5.36	1.45	1.41
35	BB	785	G	C2-N3	5.36	1.37	1.32
35	BB	1507	C	N3-C4	5.36	1.37	1.33
35	BB	2794	C	C4'-O4'	5.36	1.52	1.45
1	AA	82	G	C8-N7	-5.36	1.27	1.30
35	BB	932	U	N3-C4	5.36	1.43	1.38
35	BB	2456	C	C4-C5	-5.36	1.38	1.43
35	BB	2763	G	C6-N1	5.36	1.43	1.39
39	BF	29	ARG	CD-NE	5.36	1.55	1.46
1	AA	139	A	C5-C6	-5.36	1.36	1.41
1	AA	366	A	N7-C5	-5.36	1.36	1.39
1	AA	821	G	P-O5'	-5.36	1.54	1.59
1	AA	1004	A	C3'-C2'	-5.36	1.46	1.52
1	AA	1259	C	C3'-O3'	5.36	1.49	1.42
1	AA	1387	G	N1-C2	5.36	1.42	1.37
35	BB	16	C	C2-N3	5.36	1.40	1.35
35	BB	590	A	P-O5'	-5.36	1.54	1.59
35	BB	944	C	N1-C2	-5.36	1.34	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1231	U	C4'-O4'	5.36	1.52	1.45
35	BB	1763	G	N9-C8	-5.36	1.34	1.37
35	BB	2711	A	C4'-O4'	-5.36	1.38	1.45
35	BB	2847	U	C5-C6	5.36	1.39	1.34
35	BB	2899	A	N3-C4	-5.36	1.31	1.34
1	AA	31	G	N9-C8	5.36	1.41	1.37
1	AA	812	G	P-O5'	-5.36	1.54	1.59
1	AA	1510	C	C5-C6	-5.36	1.30	1.34
35	BB	1250	G	C5'-C4'	5.36	1.57	1.51
35	BB	1636	U	O3'-P	-5.36	1.54	1.61
35	BB	1645	G	C3'-C2'	-5.36	1.46	1.52
35	BB	2216	G	P-O5'	5.36	1.65	1.59
35	BB	2375	G	N9-C8	5.36	1.41	1.37
35	BB	2816	G	C5-C6	-5.36	1.36	1.42
1	AA	1020	G	C5'-C4'	5.35	1.57	1.51
1	AA	1534	A	C2-N3	5.35	1.38	1.33
1	AA	273	U	C5'-C4'	5.35	1.57	1.51
1	AA	695	A	C6-N6	5.35	1.38	1.33
1	AA	1153	G	C6-N1	5.35	1.43	1.39
5	AE	115	GLU	CG-CD	5.35	1.59	1.51
35	BB	115	C	O4'-C1'	5.35	1.48	1.41
35	BB	203	A	O3'-P	-5.35	1.54	1.61
35	BB	257	C	C2'-C1'	-5.35	1.47	1.53
35	BB	388	G	C5-C4	-5.35	1.34	1.38
35	BB	1020	A	N9-C4	-5.35	1.34	1.37
35	BB	1882	U	P-O5'	-5.35	1.54	1.59
35	BB	2841	C	P-O5'	-5.35	1.54	1.59
1	AA	919	A	C2'-C1'	-5.35	1.47	1.53
35	BB	1094	U	C3'-C2'	-5.35	1.46	1.52
35	BB	2318	G	C8-N7	-5.35	1.27	1.30
1	AA	564	C	N3-C4	5.35	1.37	1.33
1	AA	899	C	C4-N4	5.35	1.38	1.33
1	AA	980	C	C5'-C4'	5.35	1.57	1.51
1	AA	996	A	C6-N6	5.35	1.38	1.33
1	AA	1438	G	C5-C6	-5.35	1.37	1.42
7	AG	81	GLY	CA-C	-5.35	1.43	1.51
34	BA	68	C	P-O5'	-5.35	1.54	1.59
35	BB	31	C	C4'-O4'	5.35	1.52	1.45
35	BB	214	G	N9-C4	-5.35	1.33	1.38
35	BB	550	C	C4-N4	-5.35	1.29	1.33
35	BB	792	A	C3'-C2'	-5.35	1.46	1.52
35	BB	823	C	P-O5'	-5.35	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	844	A	C6-N6	5.35	1.38	1.33
35	BB	897	C	C2'-C1'	-5.35	1.47	1.53
35	BB	1227	G	N9-C8	-5.35	1.34	1.37
35	BB	1849	G	C2-N3	5.35	1.37	1.32
35	BB	2645	G	C6-N1	-5.35	1.35	1.39
1	AA	505	G	C5-C4	-5.35	1.34	1.38
1	AA	637	C	C2-N3	5.35	1.40	1.35
35	BB	83	A	C5'-C4'	5.35	1.57	1.51
35	BB	403	U	P-O5'	5.35	1.65	1.59
35	BB	588	U	C5-C6	5.35	1.39	1.34
35	BB	719	C	N1-C6	-5.35	1.33	1.37
35	BB	776	G	C2'-O2'	-5.35	1.34	1.41
35	BB	1789	A	O3'-P	-5.35	1.54	1.61
35	BB	1975	G	C4'-O4'	-5.35	1.38	1.45
35	BB	2437	G	C3'-C2'	-5.35	1.46	1.52
1	AA	172	A	C5-C6	5.35	1.45	1.41
1	AA	1324	A	P-O5'	-5.35	1.54	1.59
1	AA	1429	A	C2'-C1'	-5.35	1.47	1.53
35	BB	1280	G	N1-C2	5.35	1.42	1.37
35	BB	1501	G	C2-N2	5.35	1.39	1.34
35	BB	1524	G	N9-C8	-5.35	1.34	1.37
35	BB	1665	A	C2'-C1'	-5.35	1.47	1.53
1	AA	913	A	C6-N1	5.34	1.39	1.35
34	BA	90	C	C1'-N1	5.34	1.56	1.48
35	BB	282	A	C5-C4	-5.34	1.35	1.38
35	BB	304	U	P-O5'	-5.34	1.54	1.59
35	BB	359	G	N9-C4	-5.34	1.33	1.38
35	BB	599	A	N1-C2	-5.34	1.29	1.34
35	BB	1278	C	N1-C6	5.34	1.40	1.37
35	BB	1279	G	C4'-C3'	-5.34	1.47	1.52
35	BB	1805	A	C6-N1	-5.34	1.31	1.35
35	BB	1886	U	C2-N3	5.34	1.41	1.37
35	BB	2214	C	C4'-C3'	5.34	1.59	1.53
35	BB	2731	G	N9-C4	-5.34	1.33	1.38
1	AA	958	A	C6-N1	5.34	1.39	1.35
35	BB	245	G	N1-C2	5.34	1.42	1.37
35	BB	770	G	P-O5'	5.34	1.65	1.59
35	BB	1285	A	C8-N7	-5.34	1.27	1.31
35	BB	1608	A	P-O5'	-5.34	1.54	1.59
35	BB	1875	G	C6-N1	-5.34	1.35	1.39
1	AA	559	A	C4'-C3'	5.34	1.59	1.53
1	AA	1132	C	C4'-C3'	5.34	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	AH	56	PRO	N-CD	-5.34	1.40	1.47
35	BB	1224	U	N1-C6	5.34	1.42	1.38
35	BB	1239	G	O3'-P	-5.34	1.54	1.61
35	BB	1684	G	C4'-C3'	5.34	1.59	1.53
35	BB	1811	G	C2-N3	5.34	1.37	1.32
35	BB	2250	G	C6-N1	5.34	1.43	1.39
35	BB	2787	C	C2-N3	5.34	1.40	1.35
1	AA	152	A	C6-N1	5.34	1.39	1.35
1	AA	318	G	C5'-C4'	-5.34	1.45	1.51
1	AA	637	C	C4-C5	-5.34	1.38	1.43
1	AA	1271	A	C6-N1	5.34	1.39	1.35
34	BA	114	C	P-O5'	-5.34	1.54	1.59
35	BB	184	C	C3'-C2'	-5.34	1.46	1.52
35	BB	434	U	N3-C4	5.34	1.43	1.38
35	BB	1409	U	P-O5'	-5.34	1.54	1.59
35	BB	1421	G	N9-C8	5.34	1.41	1.37
35	BB	1426	G	C2-N3	5.34	1.37	1.32
35	BB	2197	U	N1-C2	5.34	1.43	1.38
1	AA	231	U	C3'-C2'	5.34	1.58	1.52
35	BB	2491	U	C2'-C1'	-5.34	1.47	1.53
35	BB	2568	U	C2'-C1'	-5.34	1.47	1.53
1	AA	287	U	C3'-O3'	5.34	1.49	1.42
1	AA	552	U	C2-N3	5.34	1.41	1.37
1	AA	839	C	O3'-P	-5.34	1.54	1.61
1	AA	888	G	C2'-C1'	-5.34	1.47	1.53
1	AA	1167	A	N9-C4	5.34	1.41	1.37
1	AA	1242	G	N9-C8	5.34	1.41	1.37
1	AA	1298	U	C4-C5	5.34	1.48	1.43
27	B2	37	ARG	CZ-NH1	5.34	1.40	1.33
35	BB	900	A	N9-C4	5.34	1.41	1.37
35	BB	956	G	C4'-O4'	-5.34	1.38	1.45
35	BB	1940	U	C2'-C1'	-5.34	1.47	1.53
35	BB	2845	U	N1-C2	5.34	1.43	1.38
1	AA	874	G	C2'-C1'	-5.33	1.47	1.53
35	BB	1480	C	C4-N4	5.33	1.38	1.33
35	BB	1713	A	C5'-C4'	5.33	1.57	1.51
1	AA	410	G	N9-C8	-5.33	1.34	1.37
1	AA	414	A	C5-C6	5.33	1.45	1.41
1	AA	914	A	N9-C8	5.33	1.42	1.37
35	BB	1730	C	C3'-C2'	5.33	1.58	1.52
35	BB	1934	C	C1'-N1	5.33	1.56	1.48
35	BB	2269	G	O3'-P	-5.33	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2480	C	C3'-C2'	-5.33	1.46	1.52
1	AA	116	A	N9-C4	5.33	1.41	1.37
1	AA	1333	A	C3'-C2'	-5.33	1.46	1.52
8	AH	58	LEU	N-CA	-5.33	1.35	1.46
35	BB	30	G	C2-N2	5.33	1.39	1.34
35	BB	129	C	P-O5'	-5.33	1.54	1.59
35	BB	163	C	C4-N4	5.33	1.38	1.33
35	BB	1380	G	C2-N3	5.33	1.37	1.32
35	BB	1688	U	C2-N3	5.33	1.41	1.37
35	BB	2685	G	N3-C4	5.33	1.39	1.35
1	AA	76	G	N9-C4	5.33	1.42	1.38
1	AA	189	A	N7-C5	-5.33	1.36	1.39
1	AA	1505	G	C8-N7	-5.33	1.27	1.30
1	AA	363	A	O3'-P	-5.33	1.54	1.61
1	AA	851	G	N1-C2	5.33	1.42	1.37
1	AA	1168	U	C3'-O3'	5.33	1.49	1.42
1	AA	1473	G	N9-C8	-5.33	1.34	1.37
3	AC	192	TYR	CE2-CZ	5.33	1.45	1.38
35	BB	421	C	C5'-C4'	-5.33	1.45	1.51
35	BB	746	U	N3-C4	5.33	1.43	1.38
35	BB	966	G	N3-C4	-5.33	1.31	1.35
35	BB	1121	C	C4-C5	-5.33	1.38	1.43
35	BB	1289	C	C2-N3	5.33	1.40	1.35
35	BB	1486	U	C2-N3	5.33	1.41	1.37
35	BB	1635	A	C2'-O2'	-5.33	1.34	1.41
35	BB	1705	A	N1-C2	5.33	1.39	1.34
35	BB	1767	G	C8-N7	-5.33	1.27	1.30
35	BB	1957	C	C2'-C1'	-5.33	1.47	1.53
35	BB	2208	C	C3'-O3'	5.33	1.49	1.42
35	BB	2383	G	C8-N7	-5.33	1.27	1.30
35	BB	2760	C	C5'-C4'	5.33	1.57	1.51
1	AA	674	G	C4'-C3'	-5.33	1.47	1.52
1	AA	831	A	C5-C6	-5.33	1.36	1.41
34	BA	62	C	N3-C4	5.33	1.37	1.33
35	BB	773	U	C1'-N1	5.33	1.56	1.48
35	BB	1342	A	C2-N3	5.33	1.38	1.33
35	BB	2224	G	N1-C2	5.33	1.42	1.37
35	BB	2264	C	N3-C4	5.33	1.37	1.33
35	BB	2530	A	N3-C4	-5.33	1.31	1.34
35	BB	2875	C	C2-N3	5.33	1.40	1.35
1	AA	601	G	C5'-C4'	5.33	1.57	1.51
1	AA	1148	U	C2'-C1'	-5.33	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1236	A	O3'-P	-5.33	1.54	1.61
35	BB	631	A	N7-C5	-5.33	1.36	1.39
35	BB	762	U	N3-C4	5.33	1.43	1.38
35	BB	908	C	N3-C4	5.33	1.37	1.33
35	BB	1311	G	C4'-O4'	5.33	1.52	1.45
35	BB	1538	G	P-O5'	-5.33	1.54	1.59
35	BB	2289	G	C2-N2	5.33	1.39	1.34
35	BB	2316	G	C5-C6	-5.33	1.37	1.42
35	BB	2826	A	N9-C4	5.33	1.41	1.37
1	AA	949	A	C4'-C3'	5.32	1.59	1.53
1	AA	978	A	C6-N6	5.32	1.38	1.33
1	AA	1067	A	P-O5'	-5.32	1.54	1.59
1	AA	1246	A	C6-N6	5.32	1.38	1.33
1	AA	1475	G	N9-C4	5.32	1.42	1.38
34	BA	99	A	O3'-P	-5.32	1.54	1.61
35	BB	171	U	O4'-C1'	5.32	1.48	1.41
35	BB	446	G	N7-C5	-5.32	1.36	1.39
35	BB	726	G	C5-C4	-5.32	1.34	1.38
35	BB	979	A	N9-C4	-5.32	1.34	1.37
35	BB	1050	A	O4'-C1'	5.32	1.48	1.41
35	BB	1474	U	N3-C4	5.32	1.43	1.38
35	BB	1611	C	N3-C4	5.32	1.37	1.33
35	BB	1693	U	N3-C4	5.32	1.43	1.38
35	BB	2682	A	N3-C4	-5.32	1.31	1.34
1	AA	657	U	P-O5'	-5.32	1.54	1.59
1	AA	1337	G	C6-N1	5.32	1.43	1.39
35	BB	992	C	C5'-C4'	5.32	1.57	1.51
35	BB	1898	U	C4-C5	5.32	1.48	1.43
35	BB	2228	G	C6-O6	-5.32	1.19	1.24
35	BB	2565	A	C3'-O3'	5.32	1.49	1.42
1	AA	191	G	N1-C2	5.32	1.42	1.37
1	AA	347	G	C5'-C4'	5.32	1.57	1.51
1	AA	1162	C	C4-C5	-5.32	1.38	1.43
35	BB	121	G	C8-N7	5.32	1.34	1.30
35	BB	693	A	N3-C4	-5.32	1.31	1.34
35	BB	1234	U	C5'-C4'	5.32	1.57	1.51
35	BB	1455	G	C2-N3	5.32	1.37	1.32
35	BB	1844	C	N1-C6	-5.32	1.33	1.37
35	BB	2474	U	P-O5'	-5.32	1.54	1.59
35	BB	2778	A	C5'-C4'	5.32	1.57	1.51
35	BB	2887	A	C5-C6	-5.32	1.36	1.41
1	AA	1094	G	P-O5'	-5.32	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	96	C	O4'-C1'	5.32	1.48	1.41
35	BB	1373	A	N9-C4	-5.32	1.34	1.37
35	BB	1531	C	C5-C6	-5.32	1.30	1.34
49	BP	8	GLU	CB-CG	5.32	1.62	1.52
1	AA	52	C	C4'-C3'	5.32	1.58	1.53
1	AA	602	A	C5-C4	5.32	1.42	1.38
1	AA	758	C	C4'-O4'	-5.32	1.38	1.45
1	AA	838	G	C2'-C1'	-5.32	1.47	1.53
1	AA	1312	G	N9-C8	-5.32	1.34	1.37
35	BB	1223	G	C8-N7	5.32	1.34	1.30
35	BB	1500	G	C4'-O4'	5.32	1.52	1.45
35	BB	1500	G	C5-C6	-5.32	1.37	1.42
35	BB	1750	G	N1-C2	5.32	1.42	1.37
35	BB	1862	G	N7-C5	-5.32	1.36	1.39
35	BB	2365	G	C2'-C1'	-5.32	1.47	1.53
35	BB	2516	A	N7-C5	-5.32	1.36	1.39
47	BN	46	ARG	CZ-NH1	5.32	1.40	1.33
1	AA	22	G	P-O5'	5.32	1.65	1.59
1	AA	177	G	C5-C6	-5.32	1.37	1.42
1	AA	633	G	C2-N2	5.32	1.39	1.34
1	AA	637	C	C3'-O3'	5.32	1.49	1.42
1	AA	1258	G	C5-C6	-5.32	1.37	1.42
1	AA	1298	U	N1-C2	5.32	1.43	1.38
35	BB	306	U	C4'-C3'	-5.32	1.47	1.52
35	BB	1345	C	C3'-C2'	-5.32	1.47	1.52
35	BB	1976	U	O3'-P	-5.32	1.54	1.61
35	BB	2334	U	P-O5'	-5.32	1.54	1.59
35	BB	2452	C	C4'-C3'	5.32	1.58	1.53
35	BB	2673	G	C3'-C2'	5.32	1.58	1.52
35	BB	2692	G	O5'-C5'	5.32	1.52	1.44
35	BB	2767	C	N3-C4	5.32	1.37	1.33
1	AA	338	A	C3'-C2'	-5.31	1.47	1.52
1	AA	923	A	O3'-P	-5.31	1.54	1.61
1	AA	1305	G	C5'-C4'	5.31	1.57	1.51
34	BA	96	G	N1-C2	5.31	1.42	1.37
35	BB	882	G	N3-C4	-5.31	1.31	1.35
35	BB	2020	A	N1-C2	5.31	1.39	1.34
35	BB	2108	A	C2'-C1'	5.31	1.59	1.53
35	BB	2875	C	C2'-C1'	-5.31	1.47	1.53
1	AA	513	C	C2-N3	5.31	1.40	1.35
1	AA	645	G	C3'-O3'	5.31	1.49	1.42
1	AA	933	G	C5-C4	5.31	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	185	G	N9-C8	5.31	1.41	1.37
35	BB	1228	G	C2-N3	5.31	1.37	1.32
35	BB	1774	C	C4-N4	5.31	1.38	1.33
35	BB	1889	A	C2-N3	5.31	1.38	1.33
35	BB	1910	G	N1-C2	5.31	1.42	1.37
35	BB	2048	G	N9-C4	5.31	1.42	1.38
35	BB	2676	C	C4-N4	5.31	1.38	1.33
46	BM	51	ARG	NE-CZ	5.31	1.40	1.33
1	AA	920	U	P-O5'	-5.31	1.54	1.59
35	BB	644	A	P-O5'	5.31	1.65	1.59
35	BB	742	A	O4'-C1'	5.31	1.48	1.41
35	BB	783	A	N3-C4	-5.31	1.31	1.34
35	BB	1226	A	P-O5'	-5.31	1.54	1.59
35	BB	2781	A	O3'-P	-5.31	1.54	1.61
1	AA	633	G	C2'-C1'	-5.31	1.47	1.53
1	AA	852	G	C5-C6	-5.31	1.37	1.42
1	AA	1217	C	P-O5'	-5.31	1.54	1.59
1	AA	1288	A	N3-C4	5.31	1.38	1.34
1	AA	1403	C	C2'-C1'	-5.31	1.47	1.53
3	AC	129	PHE	CG-CD2	5.31	1.46	1.38
22	AV	37	G	C2'-C1'	-5.31	1.47	1.53
25	B0	26	ARG	NE-CZ	5.31	1.40	1.33
35	BB	68	G	N9-C4	5.31	1.42	1.38
35	BB	387	U	C4-C5	5.31	1.48	1.43
35	BB	957	C	C2'-C1'	-5.31	1.47	1.53
35	BB	1611	C	N1-C2	5.31	1.45	1.40
35	BB	1621	U	C4-C5	5.31	1.48	1.43
35	BB	1629	U	C5-C6	5.31	1.39	1.34
35	BB	2401	U	N1-C6	5.31	1.42	1.38
35	BB	2722	G	C6-O6	-5.31	1.19	1.24
39	BF	6	TYR	CE2-CZ	5.31	1.45	1.38
1	AA	89	U	C5'-C4'	5.31	1.57	1.51
1	AA	1070	U	C2-N3	-5.31	1.34	1.37
1	AA	1087	G	C5-C4	5.31	1.42	1.38
1	AA	1100	C	C4'-O4'	5.31	1.52	1.45
1	AA	1249	C	C5'-C4'	5.31	1.57	1.51
35	BB	94	A	O3'-P	-5.31	1.54	1.61
35	BB	511	U	O4'-C1'	5.31	1.48	1.41
35	BB	733	G	C3'-O3'	5.31	1.49	1.42
35	BB	1346	G	C2-N3	5.31	1.36	1.32
35	BB	1487	U	C5'-C4'	5.31	1.57	1.51
35	BB	1718	G	N1-C2	5.31	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2417	C	C3'-O3'	5.31	1.49	1.42
35	BB	2486	C	N3-C4	5.31	1.37	1.33
35	BB	2497	A	N3-C4	-5.31	1.31	1.34
10	AJ	45	ARG	CD-NE	5.31	1.55	1.46
35	BB	1368	G	C6-N1	5.31	1.43	1.39
35	BB	1972	G	C8-N7	-5.31	1.27	1.30
35	BB	2470	G	O3'-P	-5.31	1.54	1.61
1	AA	222	C	C5-C6	5.30	1.38	1.34
1	AA	790	A	N9-C4	-5.30	1.34	1.37
1	AA	1072	G	C2-N2	-5.30	1.29	1.34
30	B5	180	PHE	CB-CG	5.30	1.60	1.51
34	BA	18	G	N7-C5	-5.30	1.36	1.39
34	BA	107	G	C6-N1	5.30	1.43	1.39
34	BA	110	C	C2-N3	5.30	1.40	1.35
34	BA	117	G	N9-C8	5.30	1.41	1.37
35	BB	1809	A	C2-N3	5.30	1.38	1.33
35	BB	1872	A	C5-C4	5.30	1.42	1.38
35	BB	1902	C	N1-C2	-5.30	1.34	1.40
35	BB	1983	G	N3-C4	5.30	1.39	1.35
35	BB	2050	C	O4'-C1'	-5.30	1.34	1.41
35	BB	2116	G	C6-N1	5.30	1.43	1.39
35	BB	2703	C	C2'-C1'	5.30	1.59	1.53
35	BB	2716	C	N1-C6	-5.30	1.33	1.37
51	BR	80	ARG	CZ-NH1	5.30	1.40	1.33
1	AA	77	A	C5-C4	-5.30	1.35	1.38
1	AA	358	U	C3'-C2'	5.30	1.58	1.52
1	AA	1200	C	C4'-C3'	5.30	1.58	1.53
1	AA	1334	G	N9-C4	5.30	1.42	1.38
35	BB	255	A	C2'-C1'	-5.30	1.47	1.53
35	BB	1038	G	C5-C4	5.30	1.42	1.38
35	BB	1908	C	N1-C6	5.30	1.40	1.37
35	BB	2524	G	O3'-P	-5.30	1.54	1.61
35	BB	2665	A	C6-N1	5.30	1.39	1.35
1	AA	196	A	N9-C8	-5.30	1.33	1.37
1	AA	413	G	O4'-C1'	-5.30	1.34	1.41
1	AA	742	G	C5'-C4'	5.30	1.57	1.51
1	AA	919	A	C5-C6	-5.30	1.36	1.41
1	AA	938	A	N9-C4	-5.30	1.34	1.37
35	BB	50	U	C2'-C1'	-5.30	1.47	1.53
35	BB	342	A	C5-C4	-5.30	1.35	1.38
35	BB	500	G	P-O5'	-5.30	1.54	1.59
35	BB	870	U	C1'-N1	5.30	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1698	A	C8-N7	-5.30	1.27	1.31
35	BB	2016	U	O3'-P	-5.30	1.54	1.61
35	BB	2732	G	C6-O6	-5.30	1.19	1.24
55	BW	12	GLN	C-N	5.30	1.42	1.33
1	AA	196	A	C6-N6	5.30	1.38	1.33
1	AA	219	U	C4-O4	5.30	1.27	1.23
6	AF	5	GLU	CB-CG	5.30	1.62	1.52
35	BB	9	G	P-O5'	-5.30	1.54	1.59
35	BB	206	U	C2-N3	5.30	1.41	1.37
35	BB	273	G	C8-N7	-5.30	1.27	1.30
35	BB	738	G	C3'-C2'	5.30	1.58	1.52
35	BB	823	C	N1-C2	5.30	1.45	1.40
35	BB	1185	G	C8-N7	-5.30	1.27	1.30
35	BB	1215	G	C5-C4	-5.30	1.34	1.38
35	BB	2855	C	C4-N4	5.30	1.38	1.33
1	AA	398	U	P-O5'	-5.30	1.54	1.59
1	AA	413	G	C2'-O2'	-5.30	1.34	1.41
1	AA	689	C	N3-C4	5.30	1.37	1.33
1	AA	1093	A	C4'-O4'	-5.30	1.38	1.45
35	BB	734	A	N7-C5	-5.30	1.36	1.39
35	BB	793	A	N9-C8	5.30	1.42	1.37
35	BB	1038	G	N9-C4	5.30	1.42	1.38
35	BB	1482	G	C6-N1	5.30	1.43	1.39
35	BB	1881	C	N1-C6	-5.30	1.33	1.37
1	AA	1328	C	N3-C4	-5.30	1.30	1.33
5	AE	81	GLN	CA-CB	5.30	1.65	1.53
13	AM	100	ARG	CZ-NH2	5.30	1.40	1.33
35	BB	1174	U	C4-O4	5.30	1.27	1.23
35	BB	2081	U	C2-N3	5.30	1.41	1.37
35	BB	2197	U	N3-C4	5.30	1.43	1.38
35	BB	2263	C	O3'-P	-5.30	1.54	1.61
35	BB	2412	A	C3'-C2'	-5.30	1.47	1.52
1	AA	64	G	C8-N7	-5.29	1.27	1.30
1	AA	152	A	C5'-C4'	5.29	1.57	1.51
1	AA	701	U	C3'-C2'	5.29	1.58	1.52
1	AA	933	G	N7-C5	-5.29	1.36	1.39
35	BB	886	A	C3'-C2'	-5.29	1.47	1.52
35	BB	1393	A	O3'-P	-5.29	1.54	1.61
35	BB	1532	A	C2'-C1'	-5.29	1.47	1.53
35	BB	2214	C	N1-C6	5.29	1.40	1.37
35	BB	2564	A	C3'-O3'	5.29	1.49	1.42
36	BC	86	ARG	CD-NE	5.29	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	323	U	C2'-C1'	5.29	1.59	1.53
1	AA	557	G	C2'-C1'	-5.29	1.47	1.53
1	AA	823	C	C2'-C1'	-5.29	1.47	1.53
35	BB	659	G	N3-C4	5.29	1.39	1.35
35	BB	1189	A	N1-C2	5.29	1.39	1.34
35	BB	1525	A	N9-C4	-5.29	1.34	1.37
35	BB	1670	C	C5-C6	-5.29	1.30	1.34
35	BB	1692	U	C2-N3	5.29	1.41	1.37
35	BB	1963	U	P-O5'	-5.29	1.54	1.59
35	BB	2238	G	C2'-C1'	-5.29	1.47	1.53
35	BB	2308	G	C2-N2	5.29	1.39	1.34
35	BB	2403	C	C4'-O4'	-5.29	1.38	1.45
1	AA	377	G	N1-C2	5.29	1.42	1.37
1	AA	1041	G	C3'-C2'	5.29	1.58	1.52
1	AA	1246	A	C2'-C1'	-5.29	1.47	1.53
1	AA	1498	U	C4-O4	-5.29	1.19	1.23
35	BB	190	A	C2'-C1'	5.29	1.59	1.53
35	BB	532	A	N1-C2	5.29	1.39	1.34
35	BB	905	A	C2'-C1'	-5.29	1.47	1.53
35	BB	1137	G	N7-C5	-5.29	1.36	1.39
35	BB	1223	G	C4'-O4'	5.29	1.52	1.45
35	BB	1230	A	C3'-O3'	5.29	1.49	1.42
35	BB	1642	G	C2-N2	5.29	1.39	1.34
35	BB	1963	U	C4'-O4'	-5.29	1.38	1.45
35	BB	2773	C	C4'-O4'	5.29	1.52	1.45
1	AA	203	G	C5-C4	5.29	1.42	1.38
1	AA	221	C	N3-C4	5.29	1.37	1.33
1	AA	328	C	C5'-C4'	5.29	1.57	1.51
1	AA	543	U	C2-N3	5.29	1.41	1.37
1	AA	625	U	C4-O4	5.29	1.27	1.23
1	AA	641	U	O3'-P	-5.29	1.54	1.61
35	BB	1335	C	C4-N4	5.29	1.38	1.33
35	BB	1818	U	O3'-P	-5.29	1.54	1.61
35	BB	1961	C	N1-C6	-5.29	1.33	1.37
1	AA	77	A	C6-N1	5.29	1.39	1.35
1	AA	648	A	N7-C5	-5.29	1.36	1.39
1	AA	1281	C	C5'-C4'	5.29	1.57	1.51
35	BB	1069	A	C6-N6	5.29	1.38	1.33
35	BB	1514	G	N9-C8	5.29	1.41	1.37
35	BB	1726	C	C3'-C2'	-5.29	1.47	1.52
35	BB	2090	A	C2-N3	-5.29	1.28	1.33
35	BB	2101	A	C2'-C1'	-5.29	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2865	U	P-O5'	-5.29	1.54	1.59
48	BO	25	ARG	CZ-NH2	5.29	1.40	1.33
55	BW	5	ASN	CB-CG	5.29	1.63	1.51
1	AA	304	U	O3'-P	-5.29	1.54	1.61
1	AA	1204	A	N7-C5	-5.29	1.36	1.39
1	AA	1246	A	C5'-C4'	5.29	1.57	1.51
35	BB	508	A	C6-N1	5.29	1.39	1.35
35	BB	559	G	N1-C2	5.29	1.42	1.37
35	BB	1442	U	C4'-C3'	-5.29	1.47	1.52
35	BB	2643	G	C8-N7	-5.29	1.27	1.30
1	AA	260	G	C3'-O3'	5.29	1.49	1.42
1	AA	630	A	C2'-O2'	5.29	1.48	1.41
1	AA	635	A	C1'-N9	-5.29	1.39	1.46
1	AA	824	G	N9-C8	5.29	1.41	1.37
13	AM	70	ARG	CD-NE	5.29	1.55	1.46
34	BA	89	U	N1-C2	5.29	1.43	1.38
35	BB	1147	A	C6-N6	5.29	1.38	1.33
35	BB	1430	G	C4'-O4'	5.29	1.52	1.45
35	BB	1452	G	O4'-C1'	-5.29	1.34	1.41
35	BB	2000	C	C4'-C3'	5.29	1.58	1.53
35	BB	2255	G	N1-C2	5.29	1.42	1.37
1	AA	645	G	C5-C4	-5.28	1.34	1.38
1	AA	825	A	C6-N1	5.28	1.39	1.35
3	AC	154	GLY	N-CA	-5.28	1.38	1.46
35	BB	60	G	C5'-C4'	5.28	1.57	1.51
35	BB	219	A	C2-N3	5.28	1.38	1.33
35	BB	327	G	C4'-O4'	-5.28	1.38	1.45
35	BB	506	G	N1-C2	5.28	1.42	1.37
35	BB	630	G	C6-O6	-5.28	1.19	1.24
35	BB	1036	G	O3'-P	-5.28	1.54	1.61
35	BB	1164	C	C3'-C2'	-5.28	1.47	1.52
35	BB	1270	C	C5'-C4'	5.28	1.57	1.51
35	BB	2852	G	N7-C5	-5.28	1.36	1.39
41	BH	137	GLU	CD-OE1	5.28	1.31	1.25
52	BS	5	ALA	CA-C	-5.28	1.39	1.52
1	AA	226	G	C4'-C3'	-5.28	1.47	1.52
35	BB	2307	G	N1-C2	5.28	1.42	1.37
1	AA	226	G	N3-C4	5.28	1.39	1.35
1	AA	1153	G	N9-C8	5.28	1.41	1.37
1	AA	1209	C	C4-N4	5.28	1.38	1.33
35	BB	86	G	C5-C6	-5.28	1.37	1.42
35	BB	314	C	N1-C6	5.28	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	455	C	P-O5'	-5.28	1.54	1.59
35	BB	1167	C	C2'-C1'	-5.28	1.47	1.53
35	BB	1345	C	C4-N4	5.28	1.38	1.33
35	BB	1521	G	C1'-N9	5.28	1.56	1.48
35	BB	1543	G	C5-C4	5.28	1.42	1.38
35	BB	1554	U	O3'-P	-5.28	1.54	1.61
35	BB	1659	G	C5'-C4'	5.28	1.57	1.51
35	BB	1881	C	N3-C4	5.28	1.37	1.33
35	BB	1964	G	N1-C2	5.28	1.42	1.37
35	BB	2048	G	N3-C4	-5.28	1.31	1.35
1	AA	1060	U	N1-C2	-5.28	1.33	1.38
35	BB	842	U	P-O5'	-5.28	1.54	1.59
35	BB	1125	G	N7-C5	-5.28	1.36	1.39
35	BB	1280	G	C6-O6	5.28	1.28	1.24
35	BB	1835	G	P-O5'	-5.28	1.54	1.59
40	BG	163	TYR	CB-CG	-5.28	1.43	1.51
1	AA	455	G	C2-N3	5.28	1.36	1.32
1	AA	1294	G	C2-N3	5.28	1.36	1.32
1	AA	1331	G	N9-C8	-5.28	1.34	1.37
1	AA	1502	A	N9-C4	-5.28	1.34	1.37
25	B0	77	TYR	CG-CD2	5.28	1.46	1.39
35	BB	139	U	C4'-C3'	5.28	1.58	1.53
35	BB	1255	U	C3'-C2'	5.28	1.58	1.52
35	BB	1360	G	O3'-P	-5.28	1.54	1.61
35	BB	1821	A	C6-N1	-5.28	1.31	1.35
35	BB	1844	C	C4'-O4'	-5.28	1.38	1.45
1	AA	372	C	C3'-C2'	5.28	1.58	1.52
1	AA	915	A	C2'-C1'	5.28	1.59	1.53
35	BB	110	G	C2-N3	5.28	1.36	1.32
35	BB	474	G	C2-N3	5.28	1.36	1.32
35	BB	520	G	C3'-O3'	5.28	1.49	1.42
35	BB	1354	A	C5'-C4'	5.28	1.57	1.51
35	BB	2241	A	C6-N6	5.28	1.38	1.33
35	BB	2638	G	C5-C4	5.28	1.42	1.38
35	BB	2856	A	C6-N6	5.28	1.38	1.33
1	AA	595	A	C4'-O4'	-5.27	1.38	1.45
1	AA	673	A	C8-N7	-5.27	1.27	1.31
35	BB	117	G	C5-C6	-5.27	1.37	1.42
35	BB	1848	A	C6-N6	5.27	1.38	1.33
35	BB	2810	A	C2'-C1'	-5.27	1.47	1.53
1	AA	445	G	C2-N2	5.27	1.39	1.34
10	AJ	31	ARG	CZ-NH1	5.27	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	19	C	C4-C5	-5.27	1.38	1.43
34	BA	96	G	C2'-C1'	-5.27	1.47	1.53
35	BB	251	A	C2-N3	5.27	1.38	1.33
35	BB	459	U	C4'-C3'	-5.27	1.47	1.52
35	BB	538	A	N9-C8	-5.27	1.33	1.37
35	BB	942	G	C2'-C1'	-5.27	1.47	1.53
35	BB	1011	G	N7-C5	-5.27	1.36	1.39
35	BB	1014	A	N3-C4	-5.27	1.31	1.34
35	BB	1178	C	N3-C4	5.27	1.37	1.33
35	BB	1741	C	C3'-O3'	5.27	1.49	1.42
35	BB	1902	C	C4'-C3'	5.27	1.58	1.53
35	BB	2146	C	C3'-C2'	5.27	1.58	1.52
48	BO	55	GLU	CD-OE2	-5.27	1.19	1.25
1	AA	1401	G	N3-C4	5.27	1.39	1.35
35	BB	743	A	C6-N6	5.27	1.38	1.33
35	BB	1082	U	C4'-C3'	-5.27	1.47	1.52
35	BB	1303	G	C3'-C2'	-5.27	1.47	1.52
37	BD	183	GLU	CD-OE2	-5.27	1.19	1.25
1	AA	488	C	N3-C4	5.27	1.37	1.33
1	AA	498	A	C6-N1	5.27	1.39	1.35
1	AA	836	G	C6-O6	5.27	1.28	1.24
35	BB	51	G	N1-C2	5.27	1.42	1.37
35	BB	364	C	N1-C6	5.27	1.40	1.37
35	BB	981	A	N3-C4	5.27	1.38	1.34
35	BB	1663	G	C5-C4	5.27	1.42	1.38
35	BB	1918	A	C2'-C1'	-5.27	1.47	1.53
35	BB	2532	G	C4'-C3'	5.27	1.58	1.53
35	BB	2566	A	N1-C2	5.27	1.39	1.34
1	AA	161	A	C5-C4	5.27	1.42	1.38
1	AA	557	G	C2'-O2'	5.27	1.48	1.41
1	AA	988	G	N1-C2	5.27	1.42	1.37
1	AA	1342	C	N1-C6	5.27	1.40	1.37
1	AA	1379	G	C4'-O4'	5.27	1.52	1.45
1	AA	1411	C	C2-N3	5.27	1.40	1.35
1	AA	1436	U	C5'-C4'	5.27	1.57	1.51
9	AI	19	PHE	CB-CG	-5.27	1.42	1.51
12	AL	82	ARG	CD-NE	5.27	1.55	1.46
34	BA	112	G	P-O5'	-5.27	1.54	1.59
35	BB	176	A	N9-C4	-5.27	1.34	1.37
35	BB	286	U	O3'-P	-5.27	1.54	1.61
35	BB	488	G	C8-N7	-5.27	1.27	1.30
35	BB	675	A	O4'-C1'	5.27	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	960	A	C5-C4	5.27	1.42	1.38
35	BB	1002	G	C8-N7	5.27	1.34	1.30
35	BB	1515	A	C6-N1	5.27	1.39	1.35
35	BB	2782	G	N1-C2	5.27	1.42	1.37
1	AA	326	G	N7-C5	-5.27	1.36	1.39
35	BB	24	G	N7-C5	-5.27	1.36	1.39
35	BB	321	U	C2'-C1'	-5.27	1.47	1.53
35	BB	1220	G	C2-N2	5.27	1.39	1.34
35	BB	1272	A	C3'-C2'	5.27	1.58	1.52
35	BB	1578	U	P-O5'	5.27	1.65	1.59
44	BK	18	ARG	CD-NE	5.27	1.55	1.46
1	AA	734	G	C6-O6	-5.26	1.19	1.24
1	AA	867	G	C2-N3	5.26	1.36	1.32
1	AA	946	A	O4'-C1'	5.26	1.48	1.41
1	AA	968	A	N9-C4	5.26	1.41	1.37
1	AA	1028	C	C2-O2	-5.26	1.19	1.24
1	AA	1079	G	C5-C6	-5.26	1.37	1.42
1	AA	1434	A	C3'-C2'	-5.26	1.47	1.52
26	B1	5	GLU	CG-CD	5.26	1.59	1.51
35	BB	997	G	C6-O6	5.26	1.28	1.24
35	BB	2250	G	N1-C2	5.26	1.42	1.37
35	BB	2611	C	C4'-C3'	5.26	1.58	1.53
35	BB	2839	G	C3'-C2'	5.26	1.58	1.52
1	AA	385	C	P-O5'	-5.26	1.54	1.59
1	AA	1318	A	C8-N7	5.26	1.35	1.31
34	BA	51	G	N1-C2	5.26	1.42	1.37
35	BB	1080	A	N9-C8	-5.26	1.33	1.37
35	BB	1565	C	N3-C4	5.26	1.37	1.33
35	BB	1583	A	C4'-C3'	5.26	1.58	1.53
35	BB	2599	G	N7-C5	5.26	1.42	1.39
1	AA	432	A	C6-N1	5.26	1.39	1.35
1	AA	712	A	N3-C4	-5.26	1.31	1.34
1	AA	831	A	C5'-C4'	5.26	1.57	1.51
35	BB	350	G	C1'-N9	5.26	1.56	1.48
35	BB	422	A	C2-N3	5.26	1.38	1.33
35	BB	535	G	N7-C5	-5.26	1.36	1.39
35	BB	800	A	C5'-C4'	5.26	1.57	1.51
35	BB	861	A	N7-C5	-5.26	1.36	1.39
35	BB	1688	U	C5'-C4'	5.26	1.57	1.51
35	BB	2136	G	C2-N3	5.26	1.36	1.32
35	BB	2491	U	C4-C5	5.26	1.48	1.43
35	BB	2810	A	N9-C8	5.26	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BG	113	ASP	CB-CG	5.26	1.62	1.51
1	AA	236	A	N3-C4	-5.26	1.31	1.34
1	AA	339	C	C3'-C2'	-5.26	1.47	1.52
1	AA	615	G	N1-C2	5.26	1.42	1.37
1	AA	725	G	C5'-C4'	5.26	1.57	1.51
34	BA	49	C	C2-N3	5.26	1.40	1.35
35	BB	989	G	N3-C4	-5.26	1.31	1.35
35	BB	1160	G	C5'-C4'	5.26	1.57	1.51
35	BB	2409	G	C4'-C3'	-5.26	1.47	1.52
1	AA	280	C	N1-C6	5.26	1.40	1.37
1	AA	414	A	P-O5'	-5.26	1.54	1.59
35	BB	287	G	C3'-C2'	5.26	1.58	1.52
35	BB	1341	G	C8-N7	-5.26	1.27	1.30
35	BB	1923	U	C2-N3	5.26	1.41	1.37
35	BB	2846	G	C3'-C2'	-5.26	1.47	1.52
1	AA	460	A	C6-N1	5.26	1.39	1.35
1	AA	768	A	C6-N1	5.26	1.39	1.35
1	AA	771	G	N1-C2	5.26	1.42	1.37
1	AA	857	C	C4-N4	5.26	1.38	1.33
1	AA	1008	U	P-O5'	-5.26	1.54	1.59
1	AA	1147	C	C2-O2	5.26	1.29	1.24
9	AI	102	PHE	CB-CG	-5.26	1.42	1.51
34	BA	114	C	N3-C4	5.26	1.37	1.33
35	BB	51	G	N9-C8	5.26	1.41	1.37
35	BB	155	A	C2'-C1'	-5.26	1.47	1.53
35	BB	614	A	N9-C4	-5.26	1.34	1.37
35	BB	1048	A	N9-C4	-5.26	1.34	1.37
35	BB	1763	G	C2-N2	5.26	1.39	1.34
39	BF	94	ARG	NE-CZ	5.26	1.39	1.33
1	AA	315	A	N9-C8	5.25	1.42	1.37
1	AA	533	A	C5-C4	5.25	1.42	1.38
1	AA	553	A	C5-C4	-5.25	1.35	1.38
1	AA	803	G	N1-C2	5.25	1.42	1.37
1	AA	963	G	O3'-P	5.25	1.67	1.61
35	BB	20	C	C2-N3	5.25	1.40	1.35
35	BB	691	C	C4-N4	5.25	1.38	1.33
35	BB	1767	G	O3'-P	-5.25	1.54	1.61
1	AA	715	A	O4'-C1'	-5.25	1.34	1.41
34	BA	51	G	C5-C4	-5.25	1.34	1.38
34	BA	104	A	C4'-C3'	5.25	1.58	1.53
35	BB	28	A	C5'-C4'	5.25	1.57	1.51
35	BB	949	G	C1'-N9	-5.25	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1061	U	N3-C4	5.25	1.43	1.38
35	BB	1726	C	N1-C6	5.25	1.40	1.37
35	BB	1883	U	C2-N3	5.25	1.41	1.37
35	BB	2868	A	N9-C8	-5.25	1.33	1.37
1	AA	665	A	N9-C4	5.25	1.41	1.37
1	AA	714	G	N9-C8	5.25	1.41	1.37
1	AA	1322	C	O4'-C1'	5.25	1.48	1.41
35	BB	1013	C	P-O5'	5.25	1.65	1.59
35	BB	1991	U	C5-C6	5.25	1.38	1.34
35	BB	2398	U	C4-C5	-5.25	1.38	1.43
35	BB	2485	G	C5'-C4'	5.25	1.57	1.51
35	BB	2569	G	P-O5'	5.25	1.65	1.59
35	BB	2581	G	C6-N1	5.25	1.43	1.39
35	BB	2856	A	C4'-C3'	-5.25	1.47	1.52
1	AA	699	C	C2-N3	5.25	1.40	1.35
1	AA	1379	G	O3'-P	-5.25	1.54	1.61
1	AA	1398	A	C4'-O4'	5.25	1.52	1.45
35	BB	168	G	O4'-C1'	-5.25	1.34	1.41
35	BB	350	G	C6-N1	5.25	1.43	1.39
35	BB	520	G	N7-C5	-5.25	1.36	1.39
35	BB	1067	A	C5-C6	-5.25	1.36	1.41
35	BB	1144	A	C5-C4	5.25	1.42	1.38
1	AA	84	U	O3'-P	-5.25	1.54	1.61
1	AA	354	G	C5'-C4'	5.25	1.57	1.51
1	AA	746	A	C4'-C3'	-5.25	1.47	1.52
1	AA	1143	G	C2-N3	5.25	1.36	1.32
1	AA	1185	G	C5'-C4'	5.25	1.57	1.51
34	BA	117	G	C6-O6	-5.25	1.19	1.24
35	BB	23	G	N3-C4	-5.25	1.31	1.35
35	BB	292	U	O3'-P	-5.25	1.54	1.61
35	BB	658	U	C2'-C1'	-5.25	1.47	1.53
35	BB	1337	G	N3-C4	-5.25	1.31	1.35
35	BB	1742	U	O3'-P	-5.25	1.54	1.61
35	BB	2050	C	P-O5'	-5.25	1.54	1.59
35	BB	2603	G	C2-N2	5.25	1.39	1.34
35	BB	2700	A	N9-C8	5.25	1.42	1.37
35	BB	2805	C	C4-C5	5.25	1.47	1.43
1	AA	64	G	N7-C5	-5.25	1.36	1.39
1	AA	691	G	C4'-O4'	5.25	1.52	1.45
35	BB	17	G	O4'-C1'	5.25	1.48	1.41
35	BB	410	G	C2-N3	5.25	1.36	1.32
35	BB	498	G	N9-C4	5.25	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	524	G	C5-C6	-5.25	1.37	1.42
35	BB	579	G	C5'-C4'	5.25	1.57	1.51
35	BB	793	A	C2'-O2'	-5.25	1.34	1.41
35	BB	1173	U	C5'-C4'	5.25	1.57	1.51
35	BB	1244	A	C5'-C4'	5.25	1.57	1.51
45	BL	78	ARG	CZ-NH1	5.25	1.39	1.33
47	BN	26	GLY	N-CA	-5.25	1.38	1.46
1	AA	593	U	C2-N3	5.25	1.41	1.37
1	AA	866	C	C4-C5	5.25	1.47	1.43
1	AA	869	G	N7-C5	-5.25	1.36	1.39
1	AA	928	G	C5-C6	-5.25	1.37	1.42
35	BB	1922	G	N9-C4	-5.25	1.33	1.38
35	BB	2782	G	N3-C4	-5.25	1.31	1.35
1	AA	20	U	N1-C6	5.24	1.42	1.38
1	AA	1261	A	C4'-C3'	5.24	1.58	1.53
1	AA	1459	G	N7-C5	-5.24	1.36	1.39
34	BA	86	G	O3'-P	-5.24	1.54	1.61
35	BB	78	U	P-O5'	-5.24	1.54	1.59
35	BB	275	C	N3-C4	5.24	1.37	1.33
35	BB	468	G	C2-N3	5.24	1.36	1.32
35	BB	597	G	C2'-C1'	-5.24	1.47	1.53
35	BB	816	C	C3'-O3'	5.24	1.49	1.42
35	BB	925	A	C5-C4	5.24	1.42	1.38
35	BB	1494	A	N3-C4	-5.24	1.31	1.34
35	BB	1656	C	N3-C4	5.24	1.37	1.33
35	BB	1832	C	N3-C4	5.24	1.37	1.33
35	BB	1985	C	N1-C2	5.24	1.45	1.40
35	BB	2010	G	C2-N3	5.24	1.36	1.32
35	BB	2234	G	P-O5'	-5.24	1.54	1.59
35	BB	2562	U	C3'-O3'	5.24	1.49	1.42
35	BB	2602	A	C6-N1	5.24	1.39	1.35
35	BB	2643	G	C2-N2	5.24	1.39	1.34
35	BB	2872	A	N3-C4	5.24	1.38	1.34
1	AA	90	C	C4-C5	5.24	1.47	1.43
1	AA	200	G	P-O5'	-5.24	1.54	1.59
1	AA	459	A	N9-C4	5.24	1.41	1.37
1	AA	983	A	P-O5'	-5.24	1.54	1.59
35	BB	157	C	C4-N4	5.24	1.38	1.33
35	BB	1016	G	N1-C2	5.24	1.42	1.37
35	BB	1357	C	C5'-C4'	5.24	1.57	1.51
35	BB	1619	G	C2'-C1'	-5.24	1.47	1.53
35	BB	2119	A	C6-N6	5.24	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	666	G	N9-C4	5.24	1.42	1.38
1	AA	693	G	P-O5'	-5.24	1.54	1.59
1	AA	756	C	C3'-C2'	5.24	1.58	1.52
1	AA	1334	G	P-O5'	5.24	1.65	1.59
4	AD	25	ARG	CZ-NH2	5.24	1.39	1.33
35	BB	245	G	N9-C4	-5.24	1.33	1.38
35	BB	358	U	C5'-C4'	5.24	1.57	1.51
35	BB	1037	G	N1-C2	5.24	1.42	1.37
35	BB	1046	A	C2'-C1'	-5.24	1.47	1.53
35	BB	1545	A	N3-C4	-5.24	1.31	1.34
35	BB	2147	A	N9-C8	-5.24	1.33	1.37
35	BB	2592	G	O4'-C1'	-5.24	1.34	1.41
1	AA	281	G	C3'-C2'	5.24	1.58	1.52
1	AA	284	C	C2-N3	5.24	1.40	1.35
1	AA	555	U	N1-C2	5.24	1.43	1.38
1	AA	735	C	N1-C2	5.24	1.45	1.40
1	AA	1110	A	C2-N3	5.24	1.38	1.33
1	AA	1229	A	O4'-C1'	5.24	1.48	1.41
1	AA	1367	C	N1-C6	5.24	1.40	1.37
1	AA	1401	G	C8-N7	5.24	1.34	1.30
35	BB	615	U	C2-N3	5.24	1.41	1.37
35	BB	962	G	N9-C4	-5.24	1.33	1.38
35	BB	1267	U	P-O5'	-5.24	1.54	1.59
35	BB	1278	C	C4-C5	-5.24	1.38	1.43
35	BB	1338	G	C2-N3	5.24	1.36	1.32
35	BB	2127	G	C6-O6	-5.24	1.19	1.24
35	BB	2158	A	C5'-C4'	5.24	1.57	1.51
35	BB	2600	A	P-O5'	-5.24	1.54	1.59
1	AA	17	U	C2'-C1'	-5.24	1.47	1.53
1	AA	1054	C	N3-C4	5.24	1.37	1.33
35	BB	1133	A	C6-N1	5.24	1.39	1.35
35	BB	1359	A	C5'-C4'	5.24	1.57	1.51
35	BB	1977	A	C1'-N9	-5.24	1.39	1.46
35	BB	2400	G	C6-N1	5.24	1.43	1.39
1	AA	447	G	N7-C5	-5.24	1.36	1.39
35	BB	316	C	C1'-N1	5.24	1.56	1.48
35	BB	939	G	O3'-P	-5.24	1.54	1.61
35	BB	1026	G	C5-C6	-5.24	1.37	1.42
35	BB	1310	G	N1-C2	5.24	1.42	1.37
35	BB	2030	A	C6-N6	5.24	1.38	1.33
35	BB	2168	G	C4'-C3'	-5.24	1.47	1.52
35	BB	2359	C	C4'-C3'	-5.24	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2468	A	O3'-P	-5.24	1.54	1.61
35	BB	2787	C	C4-C5	-5.24	1.38	1.43
1	AA	252	U	N3-C4	5.23	1.43	1.38
1	AA	307	C	C4-C5	-5.23	1.38	1.43
1	AA	630	A	C3'-O3'	-5.23	1.34	1.42
1	AA	1303	C	N1-C6	-5.23	1.34	1.37
18	AR	47	ARG	CZ-NH1	5.23	1.39	1.33
35	BB	548	G	C5-C4	-5.23	1.34	1.38
35	BB	766	U	C1'-N1	5.23	1.56	1.48
35	BB	1909	C	C2'-C1'	-5.23	1.47	1.53
35	BB	2056	G	C2-N2	5.23	1.39	1.34
35	BB	2564	A	N9-C4	5.23	1.41	1.37
1	AA	309	A	C3'-O3'	5.23	1.49	1.42
1	AA	1380	U	C4-O4	5.23	1.27	1.23
1	AA	1460	C	N3-C4	5.23	1.37	1.33
35	BB	1016	G	C2'-C1'	-5.23	1.47	1.53
35	BB	1093	G	C3'-C2'	-5.23	1.47	1.52
35	BB	1516	G	N3-C4	-5.23	1.31	1.35
35	BB	1770	G	C2-N3	5.23	1.36	1.32
35	BB	2116	G	P-O5'	-5.23	1.54	1.59
35	BB	2154	A	C6-N6	5.23	1.38	1.33
35	BB	2361	G	O4'-C1'	5.23	1.48	1.41
35	BB	2558	C	P-O5'	-5.23	1.54	1.59
35	BB	2813	A	C5-C6	5.23	1.45	1.41
1	AA	267	C	C5-C6	-5.23	1.30	1.34
1	AA	281	G	N1-C2	5.23	1.42	1.37
1	AA	1286	U	C1'-N1	5.23	1.56	1.48
1	AA	1372	U	C4'-O4'	-5.23	1.38	1.45
35	BB	318	C	C2'-C1'	-5.23	1.47	1.53
35	BB	555	G	C2'-C1'	-5.23	1.47	1.53
35	BB	610	C	C2-N3	5.23	1.40	1.35
35	BB	714	U	N1-C2	5.23	1.43	1.38
35	BB	800	A	N9-C4	-5.23	1.34	1.37
35	BB	1616	A	N7-C5	-5.23	1.36	1.39
35	BB	2049	G	O3'-P	5.23	1.67	1.61
35	BB	2309	A	N9-C4	-5.23	1.34	1.37
1	AA	570	G	C5-C6	-5.23	1.37	1.42
1	AA	1257	A	C2-N3	5.23	1.38	1.33
34	BA	68	C	N3-C4	5.23	1.37	1.33
35	BB	169	G	C2'-C1'	-5.23	1.47	1.53
35	BB	1179	G	N3-C4	5.23	1.39	1.35
35	BB	1918	A	C5-C4	-5.23	1.35	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2095	A	C6-N1	5.23	1.39	1.35
35	BB	2868	A	C2-N3	5.23	1.38	1.33
1	AA	27	G	C2-N3	5.23	1.36	1.32
1	AA	96	U	N1-C6	5.23	1.42	1.38
1	AA	349	A	C6-N6	5.23	1.38	1.33
1	AA	1285	A	C5-C6	5.23	1.45	1.41
4	AD	203	TYR	CG-CD2	5.23	1.46	1.39
35	BB	52	A	C4'-C3'	5.23	1.58	1.53
35	BB	521	U	C2'-C1'	-5.23	1.47	1.53
35	BB	544	C	C4-N4	5.23	1.38	1.33
35	BB	933	A	C5'-C4'	5.23	1.57	1.51
35	BB	1376	C	C4-N4	5.23	1.38	1.33
35	BB	1451	C	C4'-C3'	-5.23	1.47	1.52
35	BB	1842	G	C8-N7	5.23	1.34	1.30
35	BB	2468	A	C8-N7	5.23	1.35	1.31
1	AA	42	G	C8-N7	-5.23	1.27	1.30
1	AA	413	G	C6-O6	-5.23	1.19	1.24
1	AA	1213	A	C5-C4	-5.23	1.35	1.38
1	AA	1408	A	C2-N3	5.23	1.38	1.33
35	BB	997	G	C5-C6	-5.23	1.37	1.42
35	BB	2427	C	C4'-C3'	-5.23	1.47	1.52
1	AA	271	C	C4'-C3'	5.22	1.58	1.53
1	AA	478	A	C3'-C2'	-5.22	1.47	1.52
1	AA	705	G	N3-C4	-5.22	1.31	1.35
1	AA	811	C	O3'-P	-5.22	1.54	1.61
1	AA	836	G	C5'-C4'	5.22	1.57	1.51
1	AA	935	A	C6-N6	5.22	1.38	1.33
1	AA	1318	A	C2-N3	-5.22	1.28	1.33
21	AU	18	PHE	CB-CG	5.22	1.60	1.51
34	BA	80	U	N1-C6	-5.22	1.33	1.38
34	BA	89	U	N3-C4	5.22	1.43	1.38
35	BB	810	U	C5-C6	5.22	1.38	1.34
35	BB	1023	U	C5-C6	-5.22	1.29	1.34
35	BB	2107	G	O3'-P	-5.22	1.54	1.61
35	BB	2123	G	C5-C4	5.22	1.42	1.38
35	BB	2348	U	O4'-C1'	5.22	1.48	1.41
41	BH	123	ARG	NE-CZ	5.22	1.39	1.33
1	AA	180	U	C5-C6	5.22	1.38	1.34
1	AA	271	C	C4-N4	5.22	1.38	1.33
1	AA	299	G	N9-C4	-5.22	1.33	1.38
1	AA	379	C	N3-C4	5.22	1.37	1.33
1	AA	1151	A	P-O5'	-5.22	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1351	U	C2-N3	-5.22	1.34	1.37
5	AE	111	ARG	CZ-NH1	5.22	1.39	1.33
35	BB	272	A	C8-N7	-5.22	1.27	1.31
35	BB	432	A	C6-N6	5.22	1.38	1.33
35	BB	961	C	P-O5'	-5.22	1.54	1.59
35	BB	1283	G	C5'-C4'	5.22	1.57	1.51
35	BB	2152	G	C3'-C2'	5.22	1.58	1.52
35	BB	2680	U	N1-C6	5.22	1.42	1.38
35	BB	2803	G	C2'-C1'	-5.22	1.47	1.53
1	AA	885	G	N3-C4	-5.22	1.31	1.35
35	BB	666	A	O3'-P	-5.22	1.54	1.61
35	BB	1040	A	O4'-C1'	-5.22	1.34	1.41
35	BB	1356	G	N3-C4	-5.22	1.31	1.35
35	BB	1634	A	C2'-C1'	-5.22	1.47	1.53
1	AA	147	G	C3'-O3'	5.22	1.49	1.42
1	AA	412	A	P-O5'	-5.22	1.54	1.59
1	AA	671	G	O3'-P	-5.22	1.54	1.61
1	AA	694	A	C4'-C3'	-5.22	1.47	1.52
35	BB	547	A	C2'-C1'	-5.22	1.47	1.53
35	BB	614	A	C6-N6	5.22	1.38	1.33
35	BB	937	C	C5'-C4'	5.22	1.57	1.51
35	BB	1022	G	O3'-P	-5.22	1.54	1.61
35	BB	1771	C	O3'-P	-5.22	1.54	1.61
35	BB	2176	A	N7-C5	-5.22	1.36	1.39
35	BB	2239	G	C3'-C2'	5.22	1.58	1.52
35	BB	2430	A	C2'-O2'	-5.22	1.34	1.41
35	BB	2633	G	C6-N1	5.22	1.43	1.39
36	BC	188	ARG	CZ-NH1	5.22	1.39	1.33
34	BA	48	U	C4-O4	-5.22	1.19	1.23
35	BB	93	G	C2'-C1'	-5.22	1.47	1.53
35	BB	1252	G	O3'-P	-5.22	1.54	1.61
35	BB	1287	A	C2'-C1'	-5.22	1.47	1.53
35	BB	2087	G	N9-C8	-5.22	1.34	1.37
35	BB	2269	G	N7-C5	5.22	1.42	1.39
1	AA	577	G	C2-N2	5.22	1.39	1.34
35	BB	3	U	C1'-N1	5.22	1.56	1.48
35	BB	498	G	N7-C5	-5.22	1.36	1.39
35	BB	609	A	C6-N6	5.22	1.38	1.33
35	BB	818	G	C3'-C2'	-5.22	1.47	1.52
35	BB	1687	G	N7-C5	-5.22	1.36	1.39
35	BB	2156	G	C4'-O4'	5.22	1.52	1.45
35	BB	2182	U	O3'-P	-5.22	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2183	A	C6-N1	5.22	1.39	1.35
35	BB	2341	G	O3'-P	-5.22	1.54	1.61
35	BB	2538	C	C5'-C4'	5.22	1.57	1.51
35	BB	2687	U	C2'-C1'	-5.22	1.47	1.53
49	BP	71	ARG	CZ-NH2	5.22	1.39	1.33
1	AA	225	C	C5'-C4'	5.21	1.57	1.51
1	AA	300	A	C5-C4	-5.21	1.35	1.38
1	AA	597	G	C6-O6	-5.21	1.19	1.24
35	BB	324	A	C2-N3	5.21	1.38	1.33
35	BB	329	G	C2'-C1'	-5.21	1.47	1.53
35	BB	479	A	C4'-C3'	5.21	1.58	1.53
35	BB	1348	C	C5'-C4'	5.21	1.57	1.51
35	BB	1478	G	N3-C4	5.21	1.39	1.35
35	BB	2054	A	C3'-C2'	5.21	1.58	1.52
35	BB	2122	U	O3'-P	-5.21	1.54	1.61
35	BB	2457	U	P-O5'	-5.21	1.54	1.59
40	BG	2	ARG	CD-NE	5.21	1.55	1.46
1	AA	192	A	C8-N7	-5.21	1.27	1.31
1	AA	690	G	C3'-O3'	5.21	1.49	1.42
34	BA	42	C	O3'-P	-5.21	1.54	1.61
35	BB	230	G	C2'-C1'	-5.21	1.47	1.53
35	BB	522	A	N3-C4	-5.21	1.31	1.34
35	BB	2635	A	C6-N1	5.21	1.39	1.35
1	AA	234	C	P-O5'	-5.21	1.54	1.59
1	AA	295	C	N1-C2	5.21	1.45	1.40
1	AA	742	G	N7-C5	-5.21	1.36	1.39
1	AA	926	G	C8-N7	-5.21	1.27	1.30
35	BB	1624	U	C3'-C2'	-5.21	1.47	1.52
35	BB	1631	G	C8-N7	-5.21	1.27	1.30
35	BB	1856	U	P-O5'	-5.21	1.54	1.59
35	BB	2522	U	N3-C4	5.21	1.43	1.38
1	AA	20	U	C3'-C2'	-5.21	1.47	1.52
1	AA	275	G	C5-C4	5.21	1.42	1.38
35	BB	728	G	C5-C4	5.21	1.42	1.38
35	BB	1745	A	P-O5'	-5.21	1.54	1.59
35	BB	2461	A	O4'-C1'	5.21	1.48	1.41
1	AA	147	G	C4'-O4'	5.21	1.52	1.45
1	AA	1158	C	N1-C2	5.21	1.45	1.40
1	AA	1243	C	C5-C6	-5.21	1.30	1.34
35	BB	358	U	O4'-C1'	5.21	1.48	1.41
35	BB	439	A	C4'-C3'	5.21	1.58	1.53
35	BB	844	A	N9-C4	-5.21	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1156	A	C2'-C1'	-5.21	1.47	1.53
35	BB	1309	G	O4'-C1'	-5.21	1.34	1.41
35	BB	1410	G	N9-C8	-5.21	1.34	1.37
35	BB	1661	G	N9-C4	5.21	1.42	1.38
35	BB	1845	G	C2'-C1'	-5.21	1.47	1.53
35	BB	1933	G	C8-N7	5.21	1.34	1.30
35	BB	2515	C	C2-N3	5.21	1.40	1.35
36	BC	166	ARG	CZ-NH2	5.21	1.39	1.33
1	AA	826	C	C2-N3	5.21	1.40	1.35
1	AA	1522	U	C2-N3	5.21	1.41	1.37
35	BB	343	C	P-O5'	-5.21	1.54	1.59
35	BB	389	G	N7-C5	-5.21	1.36	1.39
35	BB	717	C	C4-N4	5.21	1.38	1.33
35	BB	814	C	C4-N4	5.21	1.38	1.33
35	BB	1837	C	N3-C4	5.21	1.37	1.33
35	BB	1871	A	C2-N3	-5.21	1.28	1.33
35	BB	2714	G	C3'-C2'	-5.21	1.47	1.52
1	AA	31	G	C2'-C1'	-5.21	1.47	1.53
1	AA	67	C	C4-N4	5.21	1.38	1.33
1	AA	1393	U	C4'-C3'	5.21	1.58	1.53
35	BB	2102	G	C6-O6	5.21	1.28	1.24
55	BW	21	ARG	NE-CZ	5.21	1.39	1.33
1	AA	354	G	N3-C4	-5.20	1.31	1.35
1	AA	594	U	N1-C2	-5.20	1.33	1.38
1	AA	1049	U	C4'-O4'	-5.20	1.38	1.45
9	AI	118	ARG	CZ-NH2	5.20	1.39	1.33
35	BB	618	G	C5-C6	-5.20	1.37	1.42
35	BB	1346	G	C1'-N9	-5.20	1.39	1.46
35	BB	1388	G	C6-O6	-5.20	1.19	1.24
35	BB	1521	G	C2-N2	5.20	1.39	1.34
35	BB	1815	A	P-O5'	-5.20	1.54	1.59
35	BB	1899	A	C4'-O4'	-5.20	1.38	1.45
35	BB	2333	A	C6-N1	5.20	1.39	1.35
35	BB	2398	U	C2'-C1'	-5.20	1.47	1.53
51	BR	68	ARG	NE-CZ	5.20	1.39	1.33
1	AA	1238	A	C6-N1	5.20	1.39	1.35
1	AA	1406	U	C4'-C3'	-5.20	1.47	1.52
35	BB	125	A	O3'-P	-5.20	1.54	1.61
35	BB	1409	U	C2-N3	5.20	1.41	1.37
35	BB	1937	A	C5-C4	5.20	1.42	1.38
35	BB	2889	C	C5'-C4'	5.20	1.57	1.51
1	AA	1176	A	N3-C4	-5.20	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1399	C	C4-C5	-5.20	1.38	1.43
34	BA	46	A	P-O5'	-5.20	1.54	1.59
35	BB	592	A	C5-C4	5.20	1.42	1.38
35	BB	1228	G	C5'-C4'	-5.20	1.45	1.51
35	BB	1333	G	C5'-C4'	5.20	1.57	1.51
35	BB	1399	C	C5-C6	5.20	1.38	1.34
35	BB	1995	U	C2-N3	5.20	1.41	1.37
35	BB	2027	G	C2-N3	5.20	1.36	1.32
1	AA	725	G	C5-C4	-5.20	1.34	1.38
1	AA	1062	U	C5-C6	5.20	1.38	1.34
1	AA	1171	A	N9-C8	5.20	1.42	1.37
1	AA	1252	A	C6-N6	5.20	1.38	1.33
1	AA	1353	G	N7-C5	-5.20	1.36	1.39
1	AA	1405	G	N7-C5	-5.20	1.36	1.39
1	AA	1431	A	N1-C2	-5.20	1.29	1.34
35	BB	128	C	C5-C6	-5.20	1.30	1.34
35	BB	321	U	C4-C5	5.20	1.48	1.43
35	BB	444	C	C4'-C3'	5.20	1.58	1.53
35	BB	979	A	C8-N7	5.20	1.35	1.31
35	BB	1057	A	N3-C4	5.20	1.38	1.34
35	BB	1167	C	C5-C6	5.20	1.38	1.34
35	BB	2510	C	C4-N4	5.20	1.38	1.33
35	BB	2596	U	C2'-C1'	-5.20	1.47	1.53
35	BB	674	G	N1-C2	5.20	1.42	1.37
35	BB	1490	A	N1-C2	5.20	1.39	1.34
35	BB	1976	U	N1-C2	-5.20	1.33	1.38
35	BB	2027	G	C3'-C2'	5.20	1.58	1.52
35	BB	2179	C	C4'-C3'	-5.20	1.47	1.52
35	BB	2231	U	C2'-C1'	-5.20	1.47	1.53
35	BB	2821	A	N3-C4	-5.20	1.31	1.34
1	AA	306	A	C4'-C3'	-5.20	1.47	1.52
1	AA	444	G	C1'-N9	-5.20	1.39	1.46
1	AA	829	G	N7-C5	-5.20	1.36	1.39
1	AA	1073	U	C2'-C1'	-5.20	1.47	1.53
1	AA	1137	C	C4-C5	5.20	1.47	1.43
1	AA	1324	A	C6-N6	5.20	1.38	1.33
35	BB	33	C	O3'-P	-5.20	1.54	1.61
35	BB	468	G	C5-C6	-5.20	1.37	1.42
35	BB	931	U	N1-C2	-5.20	1.33	1.38
35	BB	1519	G	C5-C4	5.20	1.42	1.38
35	BB	1756	G	C6-O6	-5.20	1.19	1.24
35	BB	2280	G	C2-N2	5.20	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2737	G	N3-C4	5.20	1.39	1.35
52	BS	2	GLU	CA-CB	5.20	1.65	1.53
1	AA	5	U	C3'-C2'	5.19	1.58	1.52
1	AA	1159	U	C4-O4	5.19	1.27	1.23
1	AA	1193	G	C2'-O2'	5.19	1.48	1.41
1	AA	1227	A	N9-C8	-5.19	1.33	1.37
1	AA	1476	A	C6-N1	5.19	1.39	1.35
35	BB	1319	C	C2-N3	5.19	1.40	1.35
35	BB	1352	U	C3'-C2'	-5.19	1.47	1.52
35	BB	1365	A	O4'-C1'	-5.19	1.34	1.41
35	BB	1701	A	C2-N3	-5.19	1.28	1.33
44	BK	51	LYS	CA-CB	5.19	1.65	1.53
56	BY	34	SER	N-CA	-5.19	1.35	1.46
1	AA	1048	G	C1'-N9	-5.19	1.39	1.46
1	AA	1509	C	N3-C4	5.19	1.37	1.33
35	BB	253	C	C3'-O3'	5.19	1.49	1.42
35	BB	930	G	C5-C4	-5.19	1.34	1.38
35	BB	1437	C	C2'-C1'	-5.19	1.47	1.53
35	BB	1486	U	C4-C5	5.19	1.48	1.43
35	BB	2078	C	C3'-C2'	5.19	1.58	1.52
35	BB	2166	U	C3'-O3'	5.19	1.49	1.42
35	BB	2808	G	C6-O6	-5.19	1.19	1.24
1	AA	1229	A	C6-N1	5.19	1.39	1.35
1	AA	1532	U	C2-N3	5.19	1.41	1.37
34	BA	7	G	C8-N7	-5.19	1.27	1.30
35	BB	11	C	C2-O2	5.19	1.29	1.24
35	BB	991	C	N1-C6	5.19	1.40	1.37
35	BB	1580	A	C6-N6	5.19	1.38	1.33
35	BB	1622	G	C3'-O3'	5.19	1.49	1.42
35	BB	2466	C	C5'-C4'	5.19	1.57	1.51
1	AA	333	U	N1-C6	-5.19	1.33	1.38
12	AL	8	ARG	NE-CZ	5.19	1.39	1.33
35	BB	787	C	O4'-C1'	5.19	1.48	1.41
35	BB	1132	U	C4-O4	5.19	1.27	1.23
35	BB	1456	G	C5'-C4'	-5.19	1.45	1.51
35	BB	1597	A	P-O5'	-5.19	1.54	1.59
35	BB	1697	G	P-O5'	5.19	1.65	1.59
35	BB	1954	G	C2'-C1'	-5.19	1.47	1.53
35	BB	1969	A	N7-C5	-5.19	1.36	1.39
1	AA	645	G	N3-C4	5.19	1.39	1.35
1	AA	1231	G	C2-N3	5.19	1.36	1.32
1	AA	1268	G	C8-N7	5.19	1.34	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	110	C	C2'-C1'	-5.19	1.47	1.53
35	BB	125	A	N3-C4	-5.19	1.31	1.34
35	BB	144	A	C4'-O4'	5.19	1.52	1.45
35	BB	222	A	C8-N7	-5.19	1.27	1.31
35	BB	309	A	C2'-C1'	-5.19	1.47	1.53
35	BB	1024	G	C5-C4	5.19	1.42	1.38
35	BB	1044	C	C2'-C1'	-5.19	1.47	1.53
35	BB	1250	G	C2'-C1'	-5.19	1.47	1.53
35	BB	1388	G	N7-C5	-5.19	1.36	1.39
35	BB	1567	G	C2-N3	5.19	1.36	1.32
35	BB	1734	G	O3'-P	-5.19	1.54	1.61
35	BB	2397	G	C5-C4	-5.19	1.34	1.38
1	AA	354	G	C4'-O4'	5.19	1.52	1.45
1	AA	368	U	O3'-P	-5.19	1.54	1.61
1	AA	692	U	C4-C5	-5.19	1.38	1.43
1	AA	1179	A	C5-C4	-5.19	1.35	1.38
35	BB	376	G	C5'-C4'	5.19	1.57	1.51
1	AA	464	U	C2'-C1'	-5.18	1.47	1.53
1	AA	516	U	O4'-C1'	-5.18	1.34	1.41
1	AA	616	G	C2'-C1'	-5.18	1.47	1.53
1	AA	1306	A	N3-C4	-5.18	1.31	1.34
33	B8	12	ARG	CZ-NH2	5.18	1.39	1.33
35	BB	23	G	C5-C4	5.18	1.42	1.38
35	BB	185	G	C6-N1	5.18	1.43	1.39
35	BB	241	A	N9-C8	5.18	1.41	1.37
35	BB	454	A	C5-C6	5.18	1.45	1.41
35	BB	726	G	C2-N3	-5.18	1.28	1.32
35	BB	834	G	O3'-P	-5.18	1.54	1.61
35	BB	1141	U	P-O5'	-5.18	1.54	1.59
35	BB	1629	U	O4'-C1'	5.18	1.48	1.41
35	BB	1876	A	N1-C2	5.18	1.39	1.34
35	BB	1915	U	C5-C6	5.18	1.38	1.34
35	BB	1925	C	C4-N4	5.18	1.38	1.33
35	BB	1973	G	C5-C4	5.18	1.42	1.38
35	BB	2210	U	P-O5'	-5.18	1.54	1.59
35	BB	2519	U	C3'-O3'	5.18	1.49	1.42
35	BB	2535	G	N1-C2	5.18	1.41	1.37
35	BB	2701	U	P-O5'	-5.18	1.54	1.59
35	BB	2819	G	C2'-C1'	-5.18	1.47	1.53
1	AA	1314	C	N1-C2	-5.18	1.34	1.40
4	AD	127	ARG	CD-NE	5.18	1.55	1.46
10	AJ	47	GLU	N-CA	-5.18	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	508	A	C5'-C4'	5.18	1.57	1.51
35	BB	588	U	N1-C6	-5.18	1.33	1.38
35	BB	716	A	C5'-C4'	-5.18	1.45	1.51
35	BB	830	G	C8-N7	5.18	1.34	1.30
35	BB	1637	A	C5-C6	5.18	1.45	1.41
35	BB	1834	U	N3-C4	5.18	1.43	1.38
35	BB	1849	G	N7-C5	-5.18	1.36	1.39
35	BB	2282	G	O3'-P	-5.18	1.54	1.61
35	BB	2547	A	N9-C8	-5.18	1.33	1.37
1	AA	604	G	C5'-C4'	5.18	1.57	1.51
34	BA	55	U	C2-N3	5.18	1.41	1.37
34	BA	72	G	C2-N3	5.18	1.36	1.32
35	BB	121	G	C1'-N9	5.18	1.56	1.48
35	BB	1373	A	C5'-C4'	5.18	1.57	1.51
35	BB	1678	A	N3-C4	-5.18	1.31	1.34
35	BB	1743	G	N3-C4	5.18	1.39	1.35
35	BB	2470	G	C2-N3	5.18	1.36	1.32
35	BB	2580	U	C4-O4	-5.18	1.19	1.23
35	BB	2694	G	C8-N7	-5.18	1.27	1.30
1	AA	948	C	N3-C4	5.18	1.37	1.33
1	AA	1002	G	N3-C4	-5.18	1.31	1.35
34	BA	12	C	N1-C2	-5.18	1.34	1.40
35	BB	38	A	C3'-C2'	-5.18	1.47	1.52
35	BB	690	G	O3'-P	-5.18	1.54	1.61
35	BB	917	A	O3'-P	-5.18	1.54	1.61
35	BB	1571	A	P-O5'	-5.18	1.54	1.59
35	BB	1718	G	P-O5'	5.18	1.65	1.59
35	BB	2136	G	C6-N1	5.18	1.43	1.39
35	BB	2351	G	C2-N3	5.18	1.36	1.32
35	BB	2407	A	C2-N3	-5.18	1.28	1.33
35	BB	564	C	C4-N4	5.18	1.38	1.33
35	BB	910	A	N3-C4	-5.18	1.31	1.34
35	BB	1327	A	C5-C6	5.18	1.45	1.41
35	BB	2589	A	C5'-C4'	5.18	1.57	1.51
35	BB	2879	A	N1-C2	5.18	1.39	1.34
1	AA	371	A	C2'-C1'	-5.18	1.47	1.53
1	AA	533	A	N3-C4	5.18	1.38	1.34
1	AA	1106	G	C5-C6	-5.18	1.37	1.42
5	AE	111	ARG	CZ-NH2	5.18	1.39	1.33
35	BB	39	G	C1'-N9	-5.18	1.39	1.46
35	BB	737	C	C3'-C2'	-5.18	1.47	1.52
35	BB	825	A	C6-N1	5.18	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	974	G	N9-C4	-5.18	1.33	1.38
35	BB	1014	A	C6-N6	5.18	1.38	1.33
35	BB	1542	U	C4-O4	5.18	1.27	1.23
35	BB	1657	U	C3'-C2'	-5.18	1.47	1.52
35	BB	2297	A	C2'-C1'	-5.18	1.47	1.53
35	BB	2589	A	C3'-C2'	-5.18	1.47	1.52
35	BB	2834	G	C8-N7	-5.18	1.27	1.30
44	BK	32	TYR	CZ-OH	5.18	1.46	1.37
51	BR	90	ARG	NE-CZ	5.18	1.39	1.33
1	AA	83	C	C5'-C4'	5.17	1.57	1.51
1	AA	584	G	C6-O6	5.17	1.28	1.24
1	AA	670	G	N1-C2	5.17	1.41	1.37
1	AA	714	G	N1-C2	5.17	1.41	1.37
1	AA	836	G	P-O5'	-5.17	1.54	1.59
1	AA	1119	C	C4-N4	5.17	1.38	1.33
1	AA	1434	A	N7-C5	-5.17	1.36	1.39
7	AG	89	GLU	CG-CD	5.17	1.59	1.51
15	AO	71	ARG	NE-CZ	5.17	1.39	1.33
35	BB	365	U	P-O5'	-5.17	1.54	1.59
35	BB	563	A	C6-N1	5.17	1.39	1.35
35	BB	1103	A	C8-N7	-5.17	1.27	1.31
35	BB	1132	U	C2-N3	5.17	1.41	1.37
35	BB	1950	G	P-O5'	-5.17	1.54	1.59
35	BB	1991	U	C4'-C3'	-5.17	1.47	1.52
35	BB	2097	A	C3'-C2'	-5.17	1.47	1.52
35	BB	2613	U	C1'-N1	5.17	1.56	1.48
35	BB	2655	G	C5'-C4'	5.17	1.57	1.51
35	BB	2718	G	N9-C4	-5.17	1.33	1.38
1	AA	734	G	C2-N3	5.17	1.36	1.32
1	AA	1010	U	C5-C6	5.17	1.38	1.34
35	BB	245	G	C6-N1	5.17	1.43	1.39
35	BB	2426	A	C6-N6	5.17	1.38	1.33
41	BH	149	GLU	CD-OE2	5.17	1.31	1.25
1	AA	117	G	N7-C5	-5.17	1.36	1.39
1	AA	384	G	C5-C4	5.17	1.42	1.38
1	AA	553	A	N7-C5	-5.17	1.36	1.39
1	AA	1148	U	N3-C4	5.17	1.43	1.38
1	AA	1230	C	N3-C4	5.17	1.37	1.33
16	AP	44	SER	CB-OG	5.17	1.49	1.42
34	BA	12	C	C5-C6	-5.17	1.30	1.34
35	BB	248	G	C4'-C3'	-5.17	1.47	1.52
35	BB	833	A	P-O5'	-5.17	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1941	C	C1'-N1	5.17	1.56	1.48
35	BB	2016	U	C4-C5	5.17	1.48	1.43
35	BB	2075	U	N1-C2	-5.17	1.33	1.38
35	BB	2752	C	C2'-C1'	-5.17	1.47	1.53
1	AA	289	G	C2'-C1'	-5.17	1.47	1.53
1	AA	881	G	C8-N7	5.17	1.34	1.30
35	BB	199	A	C2'-C1'	-5.17	1.47	1.53
35	BB	1126	A	O4'-C1'	-5.17	1.34	1.41
35	BB	1903	G	C2-N3	5.17	1.36	1.32
1	AA	853	C	C4'-C3'	5.17	1.58	1.53
1	AA	1359	C	C2-N3	5.17	1.39	1.35
19	AS	51	HIS	CB-CG	5.17	1.59	1.50
35	BB	767	U	C2-N3	5.17	1.41	1.37
35	BB	953	G	N9-C4	5.17	1.42	1.38
35	BB	1597	A	N3-C4	5.17	1.38	1.34
35	BB	1901	A	P-O5'	-5.17	1.54	1.59
35	BB	2255	G	N7-C5	-5.17	1.36	1.39
35	BB	2477	U	C4-O4	5.17	1.27	1.23
1	AA	266	G	C6-N1	5.17	1.43	1.39
1	AA	661	G	C2-N3	5.17	1.36	1.32
1	AA	1223	C	C2-O2	-5.17	1.19	1.24
1	AA	1235	U	C4'-O4'	-5.17	1.38	1.45
1	AA	1297	G	N7-C5	5.17	1.42	1.39
1	AA	1308	U	O3'-P	-5.17	1.54	1.61
22	AV	73	A	N3-C4	-5.17	1.31	1.34
35	BB	270	A	O3'-P	-5.17	1.54	1.61
35	BB	683	U	O3'-P	-5.17	1.54	1.61
35	BB	834	G	N7-C5	-5.17	1.36	1.39
35	BB	972	A	N9-C4	-5.17	1.34	1.37
35	BB	1185	G	C2-N3	-5.17	1.28	1.32
35	BB	1269	A	C5-C4	5.17	1.42	1.38
35	BB	1381	G	C2'-C1'	-5.17	1.47	1.53
35	BB	1587	G	C5'-C4'	5.17	1.57	1.51
35	BB	1990	C	C2-O2	5.17	1.29	1.24
35	BB	2028	U	C2-O2	-5.17	1.17	1.22
35	BB	2260	C	C3'-C2'	5.17	1.58	1.52
44	BK	9	ASN	CA-C	-5.17	1.39	1.52
48	BO	36	TYR	CE2-CZ	5.17	1.45	1.38
1	AA	1325	C	C3'-O3'	-5.17	1.34	1.42
1	AA	1400	C	N3-C4	5.17	1.37	1.33
35	BB	350	G	C2'-C1'	-5.17	1.47	1.53
35	BB	1385	A	C5'-C4'	-5.17	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1400	U	C5-C6	5.17	1.38	1.34
35	BB	1807	G	C4'-O4'	-5.17	1.38	1.45
1	AA	182	A	C6-N1	5.16	1.39	1.35
1	AA	430	A	C4'-C3'	5.16	1.58	1.53
1	AA	482	A	C5-C4	5.16	1.42	1.38
1	AA	631	C	C1'-N1	5.16	1.56	1.48
1	AA	1206	G	C2-N2	5.16	1.39	1.34
1	AA	1207	G	C2-N3	5.16	1.36	1.32
1	AA	1458	G	C3'-C2'	5.16	1.58	1.52
35	BB	219	A	N3-C4	-5.16	1.31	1.34
35	BB	337	C	C3'-C2'	-5.16	1.47	1.52
35	BB	403	U	C2-N3	5.16	1.41	1.37
35	BB	607	U	C2'-C1'	-5.16	1.47	1.53
35	BB	635	C	P-O5'	-5.16	1.54	1.59
35	BB	667	U	C4'-O4'	-5.16	1.38	1.45
35	BB	1654	A	C3'-O3'	5.16	1.49	1.42
35	BB	1942	C	C4-C5	-5.16	1.38	1.43
35	BB	2586	U	C4-C5	5.16	1.48	1.43
34	BA	117	G	C2-N2	-5.16	1.29	1.34
35	BB	2105	U	C2'-C1'	-5.16	1.47	1.53
35	BB	2246	G	C5-C4	5.16	1.42	1.38
1	AA	705	G	C2'-C1'	-5.16	1.47	1.53
1	AA	993	G	N9-C8	5.16	1.41	1.37
35	BB	429	A	C4'-O4'	5.16	1.52	1.45
35	BB	434	U	N1-C6	-5.16	1.33	1.38
35	BB	904	G	C5'-C4'	-5.16	1.45	1.51
35	BB	1136	G	N9-C8	5.16	1.41	1.37
35	BB	1169	A	C6-N6	5.16	1.38	1.33
35	BB	1734	G	C4'-C3'	-5.16	1.47	1.52
35	BB	1983	G	C6-O6	-5.16	1.19	1.24
35	BB	2414	G	C6-N1	5.16	1.43	1.39
35	BB	2465	C	C2-N3	-5.16	1.31	1.35
35	BB	2781	A	N9-C4	-5.16	1.34	1.37
1	AA	39	G	C4'-O4'	-5.16	1.38	1.45
1	AA	187	G	C4'-O4'	-5.16	1.38	1.45
1	AA	726	C	N3-C4	5.16	1.37	1.33
1	AA	774	G	N3-C4	-5.16	1.31	1.35
1	AA	1530	G	C2-N2	5.16	1.39	1.34
34	BA	44	G	C2-N3	5.16	1.36	1.32
35	BB	183	C	N3-C4	5.16	1.37	1.33
35	BB	909	A	C6-N6	5.16	1.38	1.33
35	BB	1336	A	C3'-C2'	5.16	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1488	C	C5-C6	-5.16	1.30	1.34
35	BB	1600	C	N1-C2	5.16	1.45	1.40
35	BB	2418	A	O3'-P	-5.16	1.54	1.61
1	AA	71	A	C2'-C1'	-5.16	1.47	1.53
1	AA	1209	C	C4'-O4'	5.16	1.52	1.45
35	BB	137	U	C5'-C4'	5.16	1.57	1.51
35	BB	1570	A	C4'-C3'	5.16	1.58	1.53
35	BB	2287	A	C5-C4	5.16	1.42	1.38
1	AA	429	U	C3'-O3'	5.16	1.49	1.42
1	AA	669	G	O3'-P	5.16	1.67	1.61
1	AA	1246	A	C3'-C2'	5.16	1.58	1.52
35	BB	1025	G	C5-C4	5.16	1.42	1.38
35	BB	1090	A	C5-C6	-5.16	1.36	1.41
35	BB	1627	G	N7-C5	-5.16	1.36	1.39
35	BB	1696	G	P-O5'	-5.16	1.54	1.59
35	BB	1887	C	N3-C4	5.16	1.37	1.33
35	BB	2169	A	C5-C6	5.16	1.45	1.41
35	BB	2852	G	P-O5'	-5.16	1.54	1.59
1	AA	1474	U	C4-O4	5.15	1.27	1.23
30	B5	180	PHE	CG-CD1	5.15	1.46	1.38
35	BB	1186	G	N7-C5	-5.15	1.36	1.39
35	BB	1195	G	C2-N2	5.15	1.39	1.34
35	BB	1782	U	C4'-C3'	-5.15	1.47	1.52
35	BB	2795	C	C1'-N1	5.15	1.56	1.48
55	BW	81	PRO	N-CD	-5.15	1.40	1.47
1	AA	388	G	C2-N3	5.15	1.36	1.32
1	AA	847	G	C5-C4	5.15	1.42	1.38
1	AA	849	G	C2-N3	5.15	1.36	1.32
1	AA	1332	A	N3-C4	-5.15	1.31	1.34
35	BB	336	C	C5'-C4'	5.15	1.57	1.51
35	BB	553	G	O3'-P	-5.15	1.54	1.61
35	BB	683	U	C5'-C4'	5.15	1.57	1.51
35	BB	802	A	C6-N1	5.15	1.39	1.35
35	BB	1163	G	C2-N3	5.15	1.36	1.32
35	BB	1427	A	O4'-C1'	-5.15	1.34	1.41
35	BB	1531	C	N1-C2	5.15	1.45	1.40
35	BB	1545	A	C2-N3	-5.15	1.28	1.33
35	BB	1625	C	N1-C6	5.15	1.40	1.37
35	BB	1665	A	P-O5'	-5.15	1.54	1.59
35	BB	1911	U	C2-N3	5.15	1.41	1.37
35	BB	1934	C	C4-N4	5.15	1.38	1.33
35	BB	2126	A	C2'-C1'	-5.15	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2481	G	C6-N1	5.15	1.43	1.39
35	BB	2691	C	C4'-O4'	-5.15	1.38	1.45
35	BB	2758	A	C5'-C4'	5.15	1.57	1.51
35	BB	2879	A	C6-N6	5.15	1.38	1.33
50	BQ	80	ASN	CB-CG	5.15	1.62	1.51
1	AA	615	G	C4'-C3'	-5.15	1.47	1.52
1	AA	892	A	C6-N1	5.15	1.39	1.35
1	AA	1282	C	C5'-C4'	5.15	1.57	1.51
1	AA	1315	U	C2-N3	5.15	1.41	1.37
22	AV	4	C	C2-O2	5.15	1.29	1.24
35	BB	167	A	C5-C6	-5.15	1.36	1.41
35	BB	227	A	C2'-C1'	-5.15	1.47	1.53
35	BB	500	G	N9-C4	-5.15	1.33	1.38
35	BB	506	G	C5-C4	-5.15	1.34	1.38
35	BB	569	U	C4'-C3'	-5.15	1.47	1.52
35	BB	660	C	C2-N3	5.15	1.39	1.35
35	BB	2004	G	N7-C5	-5.15	1.36	1.39
35	BB	2198	A	C4'-C3'	5.15	1.58	1.53
35	BB	2205	A	N3-C4	-5.15	1.31	1.34
35	BB	2607	G	C1'-N9	5.15	1.56	1.48
1	AA	193	C	C5'-C4'	5.15	1.57	1.51
1	AA	449	G	N7-C5	-5.15	1.36	1.39
1	AA	574	A	C2'-C1'	-5.15	1.47	1.53
1	AA	905	U	C2'-C1'	-5.15	1.47	1.53
1	AA	1244	G	N1-C2	5.15	1.41	1.37
1	AA	1432	G	N9-C8	-5.15	1.34	1.37
35	BB	57	C	C4'-O4'	-5.15	1.38	1.45
35	BB	892	A	C4'-O4'	-5.15	1.38	1.45
35	BB	1328	A	O4'-C1'	-5.15	1.34	1.41
35	BB	1965	C	C4'-O4'	-5.15	1.38	1.45
55	BW	41	GLU	CG-CD	-5.15	1.44	1.51
1	AA	588	G	C2'-C1'	-5.15	1.47	1.53
1	AA	1181	G	C6-O6	-5.15	1.19	1.24
3	AC	36	PHE	CG-CD1	5.15	1.46	1.38
35	BB	75	G	C3'-C2'	-5.15	1.47	1.52
35	BB	179	C	C4-N4	5.15	1.38	1.33
35	BB	379	G	N3-C4	-5.15	1.31	1.35
35	BB	1173	U	C5-C6	5.15	1.38	1.34
35	BB	1486	U	C4'-C3'	5.15	1.58	1.53
35	BB	1653	G	C8-N7	-5.15	1.27	1.30
35	BB	1970	A	C2'-C1'	-5.15	1.47	1.53
35	BB	2009	A	N1-C2	-5.15	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2126	A	C3'-C2'	5.15	1.58	1.52
35	BB	2206	C	C5'-C4'	5.15	1.57	1.51
35	BB	2646	C	C4-C5	-5.15	1.38	1.43
35	BB	2744	G	C2'-C1'	-5.15	1.47	1.53
1	AA	191	G	C4'-O4'	5.15	1.52	1.45
35	BB	1936	A	C6-N6	5.15	1.38	1.33
1	AA	17	U	C2-N3	5.14	1.41	1.37
1	AA	201	G	C2'-C1'	-5.14	1.47	1.53
1	AA	1084	G	O5'-C5'	5.14	1.52	1.44
1	AA	1517	G	C8-N7	-5.14	1.27	1.30
9	AI	102	PHE	CG-CD2	5.14	1.46	1.38
22	AV	7	G	C2'-C1'	-5.14	1.47	1.53
34	BA	42	C	C4'-O4'	5.14	1.52	1.45
34	BA	75	G	C1'-N9	-5.14	1.39	1.46
35	BB	232	G	N3-C4	-5.14	1.31	1.35
35	BB	310	A	C5'-C4'	5.14	1.57	1.51
35	BB	339	U	P-O5'	-5.14	1.54	1.59
35	BB	780	G	C2-N2	5.14	1.39	1.34
35	BB	863	A	C2-N3	5.14	1.38	1.33
35	BB	1253	A	C5-C4	-5.14	1.35	1.38
35	BB	1840	G	N9-C8	-5.14	1.34	1.37
35	BB	1917	U	N1-C6	5.14	1.42	1.38
35	BB	2376	A	C5-C6	-5.14	1.36	1.41
35	BB	2390	U	C4-C5	5.14	1.48	1.43
35	BB	2539	C	C4-N4	5.14	1.38	1.33
35	BB	2623	G	C4'-C3'	-5.14	1.47	1.52
1	AA	124	C	C1'-N1	5.14	1.56	1.48
1	AA	269	C	C2-O2	5.14	1.29	1.24
1	AA	540	G	C2'-C1'	-5.14	1.47	1.53
1	AA	862	C	N3-C4	5.14	1.37	1.33
1	AA	988	G	C6-O6	5.14	1.28	1.24
1	AA	1428	A	C2'-O2'	-5.14	1.34	1.41
19	AS	49	ALA	CA-CB	5.14	1.63	1.52
35	BB	328	U	C3'-C2'	5.14	1.58	1.52
35	BB	2441	U	C1'-N1	5.14	1.56	1.48
35	BB	2473	U	C5'-C4'	5.14	1.57	1.51
35	BB	2677	G	C8-N7	5.14	1.34	1.30
35	BB	2861	U	C4'-O4'	-5.14	1.38	1.45
35	BB	2895	G	N9-C4	-5.14	1.33	1.38
1	AA	1248	A	C5'-C4'	5.14	1.57	1.51
35	BB	975	A	C5-C6	-5.14	1.36	1.41
35	BB	1156	A	C5-C6	5.14	1.45	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1355	G	C2'-C1'	-5.14	1.47	1.53
35	BB	2239	G	C5-C4	5.14	1.42	1.38
35	BB	2617	U	O4'-C1'	5.14	1.48	1.41
1	AA	114	U	C3'-C2'	5.14	1.58	1.52
1	AA	512	U	N1-C6	5.14	1.42	1.38
1	AA	515	G	O3'-P	-5.14	1.54	1.61
1	AA	648	A	C4'-O4'	-5.14	1.38	1.45
1	AA	693	G	C8-N7	-5.14	1.27	1.30
1	AA	1310	G	C3'-O3'	5.14	1.49	1.42
1	AA	1383	C	N1-C6	5.14	1.40	1.37
1	AA	1430	A	C3'-C2'	5.14	1.58	1.52
34	BA	24	G	C2-N3	5.14	1.36	1.32
35	BB	645	C	O3'-P	-5.14	1.54	1.61
35	BB	1175	A	O3'-P	-5.14	1.54	1.61
35	BB	1522	A	O3'-P	-5.14	1.54	1.61
35	BB	1984	G	C8-N7	5.14	1.34	1.30
39	BF	166	ARG	CZ-NH1	5.14	1.39	1.33
41	BH	116	ARG	NE-CZ	5.14	1.39	1.33
1	AA	374	A	C2-N3	-5.14	1.28	1.33
1	AA	523	A	C6-N1	5.14	1.39	1.35
1	AA	1051	C	N1-C2	5.14	1.45	1.40
1	AA	1316	G	C3'-C2'	5.14	1.58	1.52
34	BA	98	G	C8-N7	5.14	1.34	1.30
35	BB	637	A	C6-N6	5.14	1.38	1.33
35	BB	1786	A	N9-C4	5.14	1.41	1.37
35	BB	2326	C	N3-C4	5.14	1.37	1.33
35	BB	2411	A	C5-C4	-5.14	1.35	1.38
35	BB	2463	C	P-O5'	-5.14	1.54	1.59
39	BF	59	ILE	CA-CB	-5.14	1.43	1.54
54	BU	85	ARG	NE-CZ	5.14	1.39	1.33
1	AA	730	G	C2-N2	5.14	1.39	1.34
1	AA	856	C	C3'-C2'	-5.14	1.47	1.52
1	AA	1018	G	O4'-C1'	5.14	1.48	1.41
1	AA	1228	C	C2-N3	5.14	1.39	1.35
35	BB	292	U	C1'-N1	5.14	1.56	1.48
35	BB	346	A	C6-N6	5.14	1.38	1.33
35	BB	408	G	N1-C2	-5.14	1.33	1.37
35	BB	481	G	N9-C8	-5.14	1.34	1.37
35	BB	487	C	N1-C6	5.14	1.40	1.37
35	BB	1134	A	N1-C2	5.14	1.39	1.34
35	BB	1185	G	N1-C2	5.14	1.41	1.37
35	BB	1694	C	P-O5'	5.14	1.64	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1823	G	C2-N3	5.14	1.36	1.32
35	BB	2008	C	N1-C6	5.14	1.40	1.37
35	BB	2796	U	C5'-C4'	5.14	1.57	1.51
49	BP	102	ARG	NE-CZ	5.14	1.39	1.33
1	AA	139	A	C6-N1	5.13	1.39	1.35
1	AA	950	U	O3'-P	-5.13	1.54	1.61
1	AA	977	A	N7-C5	-5.13	1.36	1.39
25	B0	2	ARG	CZ-NH1	5.13	1.39	1.33
35	BB	132	G	O4'-C1'	-5.13	1.34	1.41
35	BB	315	G	N9-C8	-5.13	1.34	1.37
35	BB	1069	A	C4'-O4'	5.13	1.52	1.45
35	BB	1342	A	C3'-C2'	-5.13	1.47	1.52
35	BB	1552	A	C3'-O3'	5.13	1.49	1.42
35	BB	1876	A	C5-C4	5.13	1.42	1.38
35	BB	2577	A	C3'-C2'	-5.13	1.47	1.52
35	BB	35	G	C2'-C1'	-5.13	1.47	1.53
35	BB	112	U	C4'-O4'	-5.13	1.38	1.45
35	BB	1147	A	P-O5'	-5.13	1.54	1.59
35	BB	1611	C	C4-C5	5.13	1.47	1.43
35	BB	1785	A	C5-C6	5.13	1.45	1.41
1	AA	257	G	C4'-C3'	5.13	1.58	1.53
1	AA	744	C	C2'-C1'	-5.13	1.47	1.53
1	AA	823	C	N1-C6	-5.13	1.34	1.37
1	AA	1080	A	C3'-O3'	5.13	1.49	1.42
1	AA	1215	G	C2-N2	5.13	1.39	1.34
1	AA	1305	G	N9-C8	-5.13	1.34	1.37
35	BB	167	A	O3'-P	-5.13	1.54	1.61
35	BB	1151	A	C5-C6	-5.13	1.36	1.41
35	BB	1546	G	C5'-C4'	5.13	1.57	1.51
35	BB	2272	U	C4'-O4'	5.13	1.52	1.45
35	BB	2363	G	C8-N7	-5.13	1.27	1.30
35	BB	2863	C	C4-C5	5.13	1.47	1.43
50	BQ	49	ARG	CD-NE	5.13	1.55	1.46
1	AA	440	C	C4-N4	5.13	1.38	1.33
35	BB	197	A	C6-N1	5.13	1.39	1.35
35	BB	1468	U	O3'-P	-5.13	1.54	1.61
35	BB	2844	G	C2'-O2'	-5.13	1.34	1.41
1	AA	404	G	C2'-C1'	-5.13	1.47	1.53
35	BB	348	A	C6-N1	5.13	1.39	1.35
35	BB	1035	U	N1-C2	-5.13	1.33	1.38
35	BB	1473	G	C8-N7	-5.13	1.27	1.30
35	BB	1667	G	O4'-C1'	5.13	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1726	C	N1-C2	-5.13	1.35	1.40
35	BB	2013	A	C6-N6	5.13	1.38	1.33
35	BB	2143	C	O4'-C1'	-5.13	1.34	1.41
35	BB	2305	U	C4'-C3'	-5.13	1.47	1.52
35	BB	2403	C	C2-N3	5.13	1.39	1.35
1	AA	628	G	C4'-C3'	5.13	1.58	1.53
1	AA	1003	G	N1-C2	5.13	1.41	1.37
35	BB	1140	C	O3'-P	-5.13	1.54	1.61
35	BB	1431	A	C5'-C4'	5.13	1.57	1.51
35	BB	1925	C	C5'-C4'	5.13	1.57	1.51
35	BB	2423	U	C2'-C1'	-5.13	1.47	1.53
35	BB	2598	A	C3'-C2'	-5.13	1.47	1.52
35	BB	2696	U	N1-C2	-5.13	1.33	1.38
1	AA	394	G	C6-O6	-5.12	1.19	1.24
1	AA	1220	G	C8-N7	5.12	1.34	1.30
1	AA	1261	A	C8-N7	-5.12	1.27	1.31
35	BB	763	G	C5'-C4'	5.12	1.57	1.51
35	BB	2361	G	C2'-C1'	-5.12	1.47	1.53
1	AA	199	A	C5-C4	-5.12	1.35	1.38
1	AA	314	C	P-O5'	-5.12	1.54	1.59
1	AA	1246	A	C4'-C3'	5.12	1.58	1.53
3	AC	178	ARG	NE-CZ	5.12	1.39	1.33
25	B0	17	ARG	CZ-NH1	5.12	1.39	1.33
35	BB	1768	C	N3-C4	5.12	1.37	1.33
35	BB	1969	A	C6-N6	5.12	1.38	1.33
35	BB	2217	G	C5'-C4'	5.12	1.57	1.51
35	BB	2314	A	C5-C4	5.12	1.42	1.38
35	BB	2795	C	O4'-C1'	-5.12	1.34	1.41
38	BE	49	ARG	NE-CZ	5.12	1.39	1.33
1	AA	185	U	C3'-C2'	5.12	1.58	1.52
1	AA	526	C	C3'-C2'	-5.12	1.47	1.52
1	AA	531	U	O3'-P	5.12	1.67	1.61
1	AA	562	U	C4-O4	5.12	1.27	1.23
4	AD	110	ARG	NE-CZ	5.12	1.39	1.33
34	BA	30	C	C4-N4	5.12	1.38	1.33
35	BB	1498	C	O3'-P	-5.12	1.55	1.61
35	BB	1789	A	N3-C4	-5.12	1.31	1.34
35	BB	2060	A	C2'-C1'	-5.12	1.47	1.53
35	BB	2215	C	N1-C2	5.12	1.45	1.40
35	BB	2548	U	N3-C4	5.12	1.43	1.38
35	BB	1144	A	C6-N6	5.12	1.38	1.33
35	BB	1535	A	C6-N6	5.12	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2465	C	C4'-O4'	-5.12	1.38	1.45
1	AA	156	C	C2-N3	-5.12	1.31	1.35
35	BB	388	G	C5-C6	5.12	1.47	1.42
35	BB	745	G	C1'-N9	-5.12	1.39	1.46
35	BB	1343	G	C2'-C1'	-5.12	1.47	1.53
35	BB	1638	C	C2'-C1'	-5.12	1.47	1.53
35	BB	2020	A	C5'-C4'	5.12	1.57	1.51
35	BB	2403	C	C4-C5	-5.12	1.38	1.43
35	BB	2434	A	C3'-C2'	5.12	1.58	1.52
35	BB	2629	U	N1-C2	5.12	1.43	1.38
35	BB	2776	A	C6-N1	5.12	1.39	1.35
35	BB	2809	A	C8-N7	-5.12	1.27	1.31
44	BK	14	SER	N-CA	-5.12	1.36	1.46
1	AA	225	C	N3-C4	5.12	1.37	1.33
1	AA	323	U	C2-N3	5.12	1.41	1.37
1	AA	369	G	N7-C5	5.12	1.42	1.39
1	AA	652	U	C3'-O3'	5.12	1.49	1.42
1	AA	897	C	C2'-C1'	-5.12	1.47	1.53
35	BB	321	U	C2-N3	-5.12	1.34	1.37
35	BB	340	A	C4'-O4'	-5.12	1.38	1.45
35	BB	435	C	N3-C4	5.12	1.37	1.33
35	BB	782	A	C5-C4	5.12	1.42	1.38
35	BB	1011	G	C8-N7	-5.12	1.27	1.30
35	BB	1096	A	C3'-O3'	5.12	1.49	1.42
35	BB	1165	A	N7-C5	-5.12	1.36	1.39
35	BB	1295	C	C2-O2	-5.12	1.19	1.24
35	BB	1310	G	C5-C4	-5.12	1.34	1.38
35	BB	1333	G	N7-C5	-5.12	1.36	1.39
35	BB	1879	C	C4-N4	5.12	1.38	1.33
35	BB	2638	G	P-O5'	-5.12	1.54	1.59
35	BB	2663	G	C8-N7	5.12	1.34	1.30
1	AA	1193	G	C8-N7	5.12	1.34	1.30
1	AA	1417	G	C5-C4	5.12	1.42	1.38
35	BB	310	A	P-O5'	5.12	1.64	1.59
35	BB	433	C	C5-C6	-5.12	1.30	1.34
35	BB	461	C	C4-C5	-5.12	1.38	1.43
35	BB	866	A	C5-C4	5.12	1.42	1.38
35	BB	1012	U	C2-N3	5.12	1.41	1.37
35	BB	1096	A	C6-N6	5.12	1.38	1.33
35	BB	1157	G	C2-N2	5.12	1.39	1.34
35	BB	1247	A	C5'-C4'	5.12	1.57	1.51
35	BB	1451	C	C2'-C1'	-5.12	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1539	U	C3'-O3'	5.12	1.49	1.42
35	BB	1817	G	C2-N2	5.12	1.39	1.34
35	BB	1866	A	C5-C6	-5.12	1.36	1.41
35	BB	2451	A	N7-C5	5.12	1.42	1.39
35	BB	2708	G	C5-C4	5.12	1.42	1.38
1	AA	306	A	N3-C4	5.11	1.38	1.34
1	AA	865	A	C6-N6	5.11	1.38	1.33
1	AA	1063	C	N1-C6	-5.11	1.34	1.37
1	AA	1422	G	P-O5'	-5.11	1.54	1.59
1	AA	1432	G	C2-N2	5.11	1.39	1.34
8	AH	1	SER	N-CA	5.11	1.56	1.46
35	BB	667	U	C4-O4	-5.11	1.19	1.23
35	BB	804	A	N3-C4	5.11	1.38	1.34
35	BB	1079	C	C1'-N1	5.11	1.56	1.48
35	BB	1280	G	N3-C4	-5.11	1.31	1.35
35	BB	1483	G	C8-N7	-5.11	1.27	1.30
35	BB	1733	G	C2'-C1'	-5.11	1.47	1.53
35	BB	1792	G	C3'-O3'	-5.11	1.34	1.42
35	BB	2758	A	C6-N6	5.11	1.38	1.33
40	BG	54	ARG	CD-NE	5.11	1.55	1.46
1	AA	317	U	C5-C6	5.11	1.38	1.34
1	AA	368	U	C2'-C1'	-5.11	1.47	1.53
1	AA	1416	G	C5-C6	-5.11	1.37	1.42
34	BA	78	A	N9-C4	-5.11	1.34	1.37
35	BB	974	G	C4'-O4'	-5.11	1.39	1.45
35	BB	1546	G	C5-C4	-5.11	1.34	1.38
35	BB	1807	G	C5-C6	-5.11	1.37	1.42
35	BB	2701	U	N3-C4	5.11	1.43	1.38
35	BB	2792	A	C8-N7	5.11	1.35	1.31
34	BA	111	U	C2-N3	5.11	1.41	1.37
35	BB	963	U	C2'-C1'	-5.11	1.47	1.53
35	BB	1204	A	C3'-C2'	-5.11	1.47	1.52
35	BB	1829	A	P-O5'	-5.11	1.54	1.59
35	BB	2465	C	P-O5'	-5.11	1.54	1.59
1	AA	860	A	C2-N3	5.11	1.38	1.33
1	AA	955	U	N3-C4	5.11	1.43	1.38
1	AA	962	C	O4'-C1'	5.11	1.48	1.41
35	BB	649	G	C4'-O4'	5.11	1.52	1.45
35	BB	1207	C	N3-C4	5.11	1.37	1.33
35	BB	1326	U	C3'-O3'	5.11	1.49	1.42
1	AA	186	C	C3'-O3'	5.11	1.49	1.42
1	AA	537	G	C6-N1	5.11	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	557	G	C4'-O4'	-5.11	1.39	1.45
1	AA	851	G	C5'-C4'	-5.11	1.45	1.51
1	AA	1316	G	N9-C8	5.11	1.41	1.37
1	AA	1505	G	N1-C2	5.11	1.41	1.37
35	BB	379	G	N7-C5	-5.11	1.36	1.39
35	BB	562	U	P-O5'	-5.11	1.54	1.59
35	BB	592	A	C2'-O2'	-5.11	1.35	1.41
35	BB	829	A	C4'-C3'	5.11	1.58	1.53
35	BB	1255	U	C2-N3	5.11	1.41	1.37
35	BB	1313	U	N1-C6	-5.11	1.33	1.38
35	BB	1380	G	P-O5'	-5.11	1.54	1.59
35	BB	1407	G	N9-C4	-5.11	1.33	1.38
35	BB	1740	G	C5'-C4'	5.11	1.57	1.51
35	BB	1783	A	C5'-C4'	5.11	1.57	1.51
35	BB	1829	A	N9-C8	5.11	1.41	1.37
35	BB	2798	U	P-O5'	-5.11	1.54	1.59
1	AA	167	A	N3-C4	-5.11	1.31	1.34
1	AA	1087	G	C6-O6	5.11	1.28	1.24
1	AA	1338	G	C2-N3	5.11	1.36	1.32
34	BA	23	G	C6-N1	5.11	1.43	1.39
34	BA	37	C	C4'-O4'	5.11	1.52	1.45
34	BA	58	A	C3'-C2'	-5.11	1.47	1.52
35	BB	172	A	C3'-O3'	5.11	1.49	1.42
35	BB	620	G	C2-N2	5.11	1.39	1.34
35	BB	648	G	N9-C8	5.11	1.41	1.37
35	BB	1215	G	C8-N7	5.11	1.34	1.30
35	BB	2045	C	N1-C6	5.11	1.40	1.37
35	BB	2070	A	C5-C4	5.11	1.42	1.38
35	BB	2308	G	C3'-C2'	5.11	1.58	1.52
35	BB	2378	A	C5'-C4'	5.11	1.57	1.51
56	BY	38	ARG	CD-NE	5.11	1.55	1.46
1	AA	281	G	N3-C4	-5.10	1.31	1.35
1	AA	1153	G	C5-C4	5.10	1.42	1.38
29	B4	39	ASP	C-N	5.10	1.44	1.34
35	BB	646	U	O3'-P	5.10	1.67	1.61
1	AA	322	C	C4-C5	5.10	1.47	1.43
1	AA	1377	A	C5-C4	5.10	1.42	1.38
2	AB	211	LEU	CA-CB	5.10	1.65	1.53
9	AI	6	TYR	CE1-CZ	5.10	1.45	1.38
35	BB	137	U	C2-O2	5.10	1.26	1.22
35	BB	334	C	O3'-P	-5.10	1.55	1.61
35	BB	1178	C	C4-N4	5.10	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1342	A	C5-C6	5.10	1.45	1.41
35	BB	1387	A	C5-C6	5.10	1.45	1.41
35	BB	1788	C	C2'-C1'	5.10	1.58	1.53
35	BB	1856	U	O4'-C1'	5.10	1.48	1.41
35	BB	2704	C	C2-O2	5.10	1.29	1.24
35	BB	2812	G	P-O5'	-5.10	1.54	1.59
39	BF	75	GLY	CA-C	5.10	1.60	1.51
35	BB	842	U	O4'-C1'	5.10	1.48	1.41
35	BB	851	C	C4'-C3'	5.10	1.58	1.53
35	BB	991	C	C3'-C2'	5.10	1.58	1.52
35	BB	1080	A	P-O5'	5.10	1.64	1.59
35	BB	1086	A	O3'-P	5.10	1.67	1.61
35	BB	1172	C	N3-C4	5.10	1.37	1.33
35	BB	1368	G	C4'-O4'	5.10	1.52	1.45
35	BB	2465	C	C4-N4	5.10	1.38	1.33
53	BT	6	ARG	CA-C	-5.10	1.39	1.52
1	AA	682	G	C6-N1	5.10	1.43	1.39
1	AA	1022	A	C2'-C1'	-5.10	1.47	1.53
1	AA	1222	G	C5-C6	-5.10	1.37	1.42
1	AA	1251	A	N9-C8	5.10	1.41	1.37
1	AA	1432	G	O3'-P	-5.10	1.55	1.61
34	BA	7	G	O4'-C1'	5.10	1.48	1.41
35	BB	469	G	O4'-C1'	-5.10	1.35	1.41
35	BB	483	A	C5'-C4'	5.10	1.57	1.51
35	BB	932	U	C2'-C1'	-5.10	1.47	1.53
35	BB	1320	C	C2-N3	5.10	1.39	1.35
35	BB	1560	G	C8-N7	-5.10	1.27	1.30
35	BB	2332	C	C5'-C4'	5.10	1.57	1.51
35	BB	2351	G	C2'-C1'	-5.10	1.47	1.53
35	BB	2411	A	C8-N7	5.10	1.35	1.31
35	BB	2545	G	O3'-P	-5.10	1.55	1.61
35	BB	2658	C	C4-N4	5.10	1.38	1.33
1	AA	346	G	N9-C4	-5.10	1.33	1.38
1	AA	577	G	N7-C5	-5.10	1.36	1.39
1	AA	1046	A	O4'-C1'	-5.10	1.35	1.41
1	AA	1521	C	N3-C4	5.10	1.37	1.33
34	BA	29	A	C5-C4	5.10	1.42	1.38
34	BA	109	A	P-O5'	-5.10	1.54	1.59
35	BB	103	A	C2-N3	5.10	1.38	1.33
35	BB	263	G	P-O5'	-5.10	1.54	1.59
35	BB	1769	U	C4'-O4'	5.10	1.52	1.45
35	BB	2721	A	N9-C8	-5.10	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	BJ	116	ARG	CD-NE	5.10	1.55	1.46
1	AA	207	C	O4'-C1'	-5.10	1.35	1.41
1	AA	384	G	N9-C8	-5.10	1.34	1.37
1	AA	945	G	C5'-C4'	5.10	1.57	1.51
22	AV	70	C	O4'-C1'	5.10	1.48	1.41
35	BB	313	G	N7-C5	-5.10	1.36	1.39
35	BB	1070	A	C6-N6	5.10	1.38	1.33
35	BB	1755	A	C5'-C4'	5.10	1.57	1.51
35	BB	1950	G	O3'-P	-5.10	1.55	1.61
1	AA	125	U	N1-C6	5.09	1.42	1.38
1	AA	230	G	C2'-C1'	-5.09	1.47	1.53
1	AA	641	U	N1-C2	5.09	1.43	1.38
1	AA	822	U	C2-N3	5.09	1.41	1.37
1	AA	1046	A	C5-C4	5.09	1.42	1.38
1	AA	1242	G	C2-N3	5.09	1.36	1.32
4	AD	126	GLY	CA-C	5.09	1.60	1.51
35	BB	298	G	C6-N1	5.09	1.43	1.39
35	BB	554	U	C4-O4	5.09	1.27	1.23
35	BB	711	G	C6-N1	5.09	1.43	1.39
35	BB	1208	C	C2-N3	5.09	1.39	1.35
35	BB	1570	A	C5-C6	-5.09	1.36	1.41
35	BB	2237	G	C2-N3	5.09	1.36	1.32
35	BB	2431	U	C4-C5	-5.09	1.39	1.43
35	BB	2557	G	N9-C4	-5.09	1.33	1.38
35	BB	2715	C	O3'-P	-5.09	1.55	1.61
35	BB	2735	G	N1-C2	5.09	1.41	1.37
35	BB	2887	A	N3-C4	-5.09	1.31	1.34
1	AA	502	A	C6-N6	5.09	1.38	1.33
1	AA	1294	G	C4'-C3'	5.09	1.58	1.53
1	AA	1340	A	N9-C8	5.09	1.41	1.37
1	AA	1397	C	O3'-P	-5.09	1.55	1.61
1	AA	1500	A	C2-N3	-5.09	1.28	1.33
35	BB	523	C	N1-C2	5.09	1.45	1.40
35	BB	880	G	C5-C6	5.09	1.47	1.42
1	AA	167	A	C6-N6	5.09	1.38	1.33
1	AA	184	G	C2-N2	5.09	1.39	1.34
1	AA	1060	U	C2'-C1'	-5.09	1.47	1.53
35	BB	141	G	C6-N1	5.09	1.43	1.39
35	BB	226	A	N7-C5	-5.09	1.36	1.39
35	BB	265	A	N7-C5	-5.09	1.36	1.39
35	BB	403	U	C2'-C1'	-5.09	1.47	1.53
35	BB	648	G	N3-C4	-5.09	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	856	G	N3-C4	-5.09	1.31	1.35
35	BB	1171	G	C6-O6	-5.09	1.19	1.24
35	BB	1416	G	C5-C4	5.09	1.42	1.38
35	BB	1586	A	C6-N1	5.09	1.39	1.35
35	BB	2029	G	N7-C5	-5.09	1.36	1.39
35	BB	2349	G	N9-C8	5.09	1.41	1.37
36	BC	37	SER	CA-CB	5.09	1.60	1.52
1	AA	24	U	N3-C4	5.09	1.43	1.38
1	AA	984	C	N3-C4	5.09	1.37	1.33
1	AA	1064	G	C2'-O2'	-5.09	1.35	1.41
1	AA	1503	A	N9-C8	-5.09	1.33	1.37
13	AM	24	VAL	CB-CG2	5.09	1.63	1.52
35	BB	638	G	C5'-C4'	5.09	1.57	1.51
35	BB	815	C	C2'-C1'	-5.09	1.47	1.53
35	BB	973	A	C8-N7	-5.09	1.27	1.31
35	BB	1348	C	P-O5'	-5.09	1.54	1.59
35	BB	1385	A	N7-C5	5.09	1.42	1.39
35	BB	1927	A	C8-N7	5.09	1.35	1.31
35	BB	2336	A	C5-C4	5.09	1.42	1.38
35	BB	2361	G	P-O5'	-5.09	1.54	1.59
50	BQ	36	GLN	CG-CD	5.09	1.62	1.51
1	AA	1511	G	N7-C5	5.09	1.42	1.39
1	AA	1528	U	C2-N3	5.09	1.41	1.37
35	BB	531	C	O3'-P	-5.09	1.55	1.61
35	BB	854	C	C4'-O4'	5.09	1.52	1.45
35	BB	1491	G	O3'-P	-5.09	1.55	1.61
35	BB	2736	A	C2'-C1'	-5.09	1.47	1.53
40	BG	9	VAL	N-CA	-5.09	1.36	1.46
1	AA	363	A	C2'-C1'	-5.09	1.47	1.53
1	AA	409	U	C2'-C1'	-5.09	1.47	1.53
1	AA	1211	U	C5'-C4'	5.09	1.57	1.51
1	AA	1399	C	C2'-O2'	5.09	1.48	1.41
1	AA	1399	C	N3-C4	5.09	1.37	1.33
17	AQ	10	ARG	CZ-NH2	5.09	1.39	1.33
35	BB	396	G	N3-C4	5.09	1.39	1.35
35	BB	708	G	C5'-C4'	5.09	1.57	1.51
35	BB	1250	G	C3'-C2'	-5.09	1.47	1.52
35	BB	2000	C	C4-C5	-5.09	1.38	1.43
35	BB	2284	A	C5-C4	5.09	1.42	1.38
35	BB	2613	U	C4-O4	5.09	1.27	1.23
35	BB	2724	U	N3-C4	5.09	1.43	1.38
35	BB	2760	C	C2-N3	5.09	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2872	A	N9-C4	5.09	1.41	1.37
34	BA	111	U	C4'-C3'	5.08	1.58	1.53
35	BB	1	G	C6-N1	5.08	1.43	1.39
35	BB	678	C	C2'-C1'	-5.08	1.47	1.53
35	BB	1621	U	C3'-C2'	-5.08	1.47	1.52
1	AA	37	U	C2'-C1'	5.08	1.58	1.53
1	AA	304	U	N1-C6	5.08	1.42	1.38
1	AA	1331	G	O4'-C1'	-5.08	1.35	1.41
1	AA	1398	A	C2-N3	5.08	1.38	1.33
35	BB	233	A	C3'-C2'	-5.08	1.47	1.52
35	BB	1571	A	C6-N6	5.08	1.38	1.33
35	BB	2164	C	C5-C6	5.08	1.38	1.34
35	BB	2474	U	C2-N3	5.08	1.41	1.37
35	BB	2646	C	C2-N3	5.08	1.39	1.35
36	BC	257	ARG	CZ-NH1	5.08	1.39	1.33
55	BW	21	ARG	CD-NE	5.08	1.55	1.46
1	AA	165	G	N3-C4	5.08	1.39	1.35
1	AA	635	A	N3-C4	-5.08	1.31	1.34
35	BB	217	A	C2'-C1'	-5.08	1.47	1.53
35	BB	655	A	N9-C4	5.08	1.40	1.37
35	BB	1056	G	C5-C4	5.08	1.42	1.38
35	BB	1950	G	C2-N3	5.08	1.36	1.32
35	BB	2899	A	O3'-P	-5.08	1.55	1.61
54	BU	55	GLY	CA-C	-5.08	1.43	1.51
1	AA	169	C	N1-C6	-5.08	1.34	1.37
1	AA	1297	G	C2-N2	5.08	1.39	1.34
35	BB	2324	U	P-O5'	-5.08	1.54	1.59
1	AA	227	G	C2-N3	-5.08	1.28	1.32
1	AA	711	G	N7-C5	-5.08	1.36	1.39
1	AA	1005	A	C5-C4	5.08	1.42	1.38
1	AA	1079	G	C3'-C2'	-5.08	1.47	1.52
34	BA	22	U	C4'-O4'	5.08	1.52	1.45
35	BB	205	G	O3'-P	-5.08	1.55	1.61
35	BB	413	C	N3-C4	5.08	1.37	1.33
35	BB	800	A	C6-N6	5.08	1.38	1.33
35	BB	1201	U	C3'-O3'	5.08	1.49	1.42
35	BB	1221	C	N3-C4	5.08	1.37	1.33
35	BB	1236	G	N9-C8	5.08	1.41	1.37
35	BB	1291	C	C1'-N1	5.08	1.56	1.48
35	BB	2126	A	C2-N3	5.08	1.38	1.33
35	BB	2453	A	C2-N3	5.08	1.38	1.33
35	BB	2740	A	N7-C5	-5.08	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	42	G	N9-C8	-5.08	1.34	1.37
1	AA	145	G	O4'-C1'	5.08	1.48	1.41
1	AA	240	G	N3-C4	5.08	1.39	1.35
1	AA	443	C	C4'-O4'	-5.08	1.39	1.45
1	AA	878	A	C5-C6	-5.08	1.36	1.41
35	BB	1852	U	O3'-P	-5.08	1.55	1.61
35	BB	1878	G	C5'-C4'	5.08	1.57	1.51
35	BB	2180	U	C4-O4	5.08	1.27	1.23
1	AA	110	C	C2'-C1'	-5.08	1.47	1.53
1	AA	335	C	C4'-O4'	-5.08	1.39	1.45
1	AA	358	U	C4-C5	5.08	1.48	1.43
1	AA	574	A	N9-C4	-5.08	1.34	1.37
1	AA	626	G	N1-C2	5.08	1.41	1.37
1	AA	960	U	N1-C6	5.08	1.42	1.38
1	AA	1059	C	N3-C4	5.08	1.37	1.33
1	AA	1277	C	N3-C4	5.08	1.37	1.33
34	BA	108	A	C2-N3	5.08	1.38	1.33
35	BB	501	A	N9-C4	5.08	1.40	1.37
35	BB	599	A	C6-N6	5.08	1.38	1.33
35	BB	1969	A	N3-C4	-5.08	1.31	1.34
35	BB	2669	G	N1-C2	5.08	1.41	1.37
55	BW	9	ARG	NE-CZ	5.08	1.39	1.33
1	AA	133	U	P-O5'	-5.07	1.54	1.59
1	AA	1432	G	N1-C2	5.07	1.41	1.37
35	BB	800	A	C3'-O3'	5.07	1.49	1.42
35	BB	1247	A	C4'-O4'	-5.07	1.39	1.45
35	BB	1842	G	C4'-O4'	5.07	1.52	1.45
35	BB	1920	C	P-O5'	-5.07	1.54	1.59
35	BB	2140	G	C3'-C2'	5.07	1.58	1.52
35	BB	2235	G	C3'-C2'	-5.07	1.47	1.52
1	AA	511	C	C5'-C4'	5.07	1.57	1.51
3	AC	163	ARG	CD-NE	5.07	1.55	1.46
35	BB	181	A	C6-N6	5.07	1.38	1.33
35	BB	458	G	C2'-C1'	-5.07	1.47	1.53
35	BB	965	C	C3'-O3'	5.07	1.49	1.42
35	BB	1068	G	N3-C4	-5.07	1.31	1.35
35	BB	1188	U	C2-N3	5.07	1.41	1.37
35	BB	1360	G	C2'-C1'	-5.07	1.47	1.53
35	BB	1754	A	P-O5'	-5.07	1.54	1.59
35	BB	2152	G	C5-C6	-5.07	1.37	1.42
35	BB	2196	C	C4-N4	5.07	1.38	1.33
45	BL	47	ARG	NE-CZ	5.07	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	135	C	C5'-C4'	5.07	1.57	1.51
1	AA	197	A	N1-C2	5.07	1.39	1.34
1	AA	220	G	C3'-C2'	-5.07	1.47	1.52
1	AA	1031	C	C2'-C1'	-5.07	1.47	1.53
1	AA	1089	G	N9-C8	-5.07	1.34	1.37
1	AA	1152	A	C4'-O4'	5.07	1.52	1.45
35	BB	85	G	C2'-C1'	5.07	1.58	1.53
35	BB	132	G	C2'-C1'	-5.07	1.47	1.53
35	BB	546	U	O3'-P	-5.07	1.55	1.61
35	BB	633	A	N1-C2	5.07	1.39	1.34
35	BB	764	A	C5-C4	5.07	1.42	1.38
35	BB	1325	U	C4-C5	5.07	1.48	1.43
35	BB	1383	A	C1'-N9	-5.07	1.39	1.46
35	BB	1672	A	C5-C6	-5.07	1.36	1.41
35	BB	2125	G	C8-N7	5.07	1.33	1.30
35	BB	2592	G	P-O5'	-5.07	1.54	1.59
35	BB	2597	G	C5-C4	5.07	1.41	1.38
35	BB	2724	U	C2-N3	5.07	1.41	1.37
35	BB	2811	G	P-O5'	-5.07	1.54	1.59
44	BK	108	ARG	CZ-NH2	5.07	1.39	1.33
1	AA	712	A	C4'-C3'	-5.07	1.47	1.52
35	BB	506	G	C1'-N9	-5.07	1.39	1.46
35	BB	1276	A	C3'-O3'	5.07	1.49	1.42
1	AA	9	G	N3-C4	-5.07	1.31	1.35
1	AA	166	U	P-O5'	-5.07	1.54	1.59
1	AA	689	C	C4-N4	5.07	1.38	1.33
1	AA	1487	G	N9-C4	-5.07	1.33	1.38
35	BB	366	C	C4-N4	5.07	1.38	1.33
35	BB	464	U	N3-C4	5.07	1.43	1.38
35	BB	643	A	N9-C4	5.07	1.40	1.37
35	BB	1635	A	C3'-O3'	5.07	1.49	1.42
35	BB	1970	A	C6-N1	5.07	1.39	1.35
35	BB	2508	G	C5'-C4'	5.07	1.57	1.51
1	AA	815	A	C8-N7	5.07	1.35	1.31
1	AA	1007	U	O3'-P	-5.07	1.55	1.61
1	AA	1231	G	N9-C8	-5.07	1.34	1.37
1	AA	1447	A	C2-N3	5.07	1.38	1.33
35	BB	384	A	N7-C5	-5.07	1.36	1.39
35	BB	627	A	C4'-C3'	5.07	1.58	1.53
35	BB	642	U	C2-N3	5.07	1.41	1.37
35	BB	1215	G	C4'-O4'	-5.07	1.39	1.45
35	BB	1222	U	C5-C6	-5.07	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1289	C	C5'-C4'	5.07	1.57	1.51
35	BB	1368	G	N7-C5	-5.07	1.36	1.39
35	BB	1875	G	C2-N2	5.07	1.39	1.34
35	BB	2417	C	N1-C6	-5.07	1.34	1.37
35	BB	2450	A	N3-C4	5.07	1.37	1.34
14	AN	71	GLY	CA-C	-5.06	1.43	1.51
34	BA	2	G	C6-N1	5.06	1.43	1.39
35	BB	49	A	C6-N1	5.06	1.39	1.35
35	BB	634	C	C4'-C3'	-5.06	1.47	1.52
35	BB	1165	A	N1-C2	5.06	1.39	1.34
35	BB	1325	U	P-O5'	-5.06	1.54	1.59
35	BB	1623	G	C3'-O3'	5.06	1.49	1.42
1	AA	76	G	C3'-O3'	-5.06	1.35	1.42
1	AA	577	G	C2'-C1'	-5.06	1.47	1.53
1	AA	727	G	N9-C8	5.06	1.41	1.37
1	AA	1419	G	N3-C4	-5.06	1.31	1.35
6	AF	24	ARG	NE-CZ	5.06	1.39	1.33
15	AO	62	ARG	NE-CZ	5.06	1.39	1.33
35	BB	625	G	C3'-C2'	-5.06	1.47	1.52
35	BB	784	G	N1-C2	5.06	1.41	1.37
35	BB	1142	A	C5-C6	-5.06	1.36	1.41
35	BB	1197	G	C5-C6	-5.06	1.37	1.42
35	BB	1413	A	N9-C8	-5.06	1.33	1.37
35	BB	2009	A	N9-C4	-5.06	1.34	1.37
35	BB	2294	G	C2'-C1'	5.06	1.58	1.53
35	BB	2354	C	C3'-O3'	5.06	1.49	1.42
36	BC	100	ARG	NE-CZ	5.06	1.39	1.33
46	BM	114	ARG	NE-CZ	5.06	1.39	1.33
1	AA	196	A	N7-C5	-5.06	1.36	1.39
1	AA	325	A	N1-C2	-5.06	1.29	1.34
35	BB	514	A	P-O5'	-5.06	1.54	1.59
35	BB	1029	A	C5'-C4'	5.06	1.57	1.51
35	BB	1303	G	C5'-C4'	5.06	1.57	1.51
35	BB	1511	G	C6-O6	-5.06	1.19	1.24
35	BB	2422	C	C4'-C3'	5.06	1.58	1.53
35	BB	2765	A	C6-N1	5.06	1.39	1.35
35	BB	2863	C	C3'-O3'	5.06	1.49	1.42
1	AA	254	G	C5-C6	5.06	1.47	1.42
1	AA	628	G	C5'-C4'	-5.06	1.45	1.51
1	AA	689	C	C2'-O2'	-5.06	1.35	1.41
1	AA	802	A	C4'-O4'	5.06	1.52	1.45
1	AA	1051	C	C4-C5	5.06	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1163	A	C5-C6	-5.06	1.36	1.41
1	AA	1417	G	P-O5'	-5.06	1.54	1.59
1	AA	1486	G	C5-C6	-5.06	1.37	1.42
5	AE	67	ARG	NE-CZ	5.06	1.39	1.33
16	AP	17	TYR	CE1-CZ	5.06	1.45	1.38
19	AS	2	ARG	NE-CZ	5.06	1.39	1.33
22	AV	5	A	C8-N7	5.06	1.35	1.31
35	BB	594	U	C3'-O3'	5.06	1.49	1.42
35	BB	960	A	N9-C8	-5.06	1.33	1.37
35	BB	969	G	C2'-C1'	-5.06	1.47	1.53
35	BB	1128	G	C2'-C1'	-5.06	1.47	1.53
35	BB	1210	G	C8-N7	5.06	1.33	1.30
35	BB	1388	G	N1-C2	5.06	1.41	1.37
35	BB	1570	A	N9-C4	-5.06	1.34	1.37
35	BB	1803	A	N3-C4	5.06	1.37	1.34
35	BB	2029	G	P-O5'	5.06	1.64	1.59
35	BB	2054	A	C5'-C4'	5.06	1.57	1.51
35	BB	2132	U	C2-N3	5.06	1.41	1.37
35	BB	2573	C	C4-C5	5.06	1.47	1.43
35	BB	2642	G	N7-C5	-5.06	1.36	1.39
35	BB	2876	G	C5-C6	-5.06	1.37	1.42
1	AA	593	U	P-O5'	-5.06	1.54	1.59
1	AA	1127	G	N9-C4	-5.06	1.33	1.38
1	AA	1147	C	C2-N3	5.06	1.39	1.35
35	BB	146	A	P-O5'	5.06	1.64	1.59
35	BB	390	U	C2-N3	5.06	1.41	1.37
35	BB	603	A	C6-N1	-5.06	1.32	1.35
35	BB	734	A	O4'-C1'	5.06	1.48	1.41
35	BB	1124	G	O4'-C1'	-5.06	1.35	1.41
35	BB	1870	C	N3-C4	5.06	1.37	1.33
35	BB	2535	G	C2-N2	5.06	1.39	1.34
35	BB	2615	U	P-O5'	-5.06	1.54	1.59
47	BN	5	LYS	CA-C	-5.06	1.39	1.52
1	AA	1178	G	C1'-N9	5.06	1.56	1.48
35	BB	853	C	P-O5'	-5.06	1.54	1.59
35	BB	1138	G	N3-C4	-5.06	1.31	1.35
35	BB	1546	G	C6-O6	-5.06	1.19	1.24
1	AA	330	C	P-O5'	-5.05	1.54	1.59
1	AA	1130	A	O3'-P	-5.05	1.55	1.61
1	AA	1377	A	O3'-P	5.05	1.67	1.61
35	BB	760	G	C5'-C4'	5.05	1.57	1.51
35	BB	1104	C	P-O5'	-5.05	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1202	G	C2'-C1'	-5.05	1.47	1.53
35	BB	1439	A	O4'-C1'	5.05	1.48	1.41
35	BB	1449	G	C3'-O3'	5.05	1.49	1.42
35	BB	1834	U	N1-C2	5.05	1.43	1.38
35	BB	2096	C	N3-C4	-5.05	1.30	1.33
35	BB	2400	G	C4'-C3'	5.05	1.58	1.53
35	BB	2430	A	N9-C8	-5.05	1.33	1.37
35	BB	2529	G	N7-C5	-5.05	1.36	1.39
35	BB	2655	G	C2'-C1'	-5.05	1.47	1.53
1	AA	890	G	O4'-C1'	-5.05	1.35	1.41
1	AA	964	A	P-O5'	-5.05	1.54	1.59
35	BB	325	G	C2-N2	5.05	1.39	1.34
35	BB	908	C	O4'-C1'	5.05	1.48	1.41
35	BB	1937	A	N9-C8	5.05	1.41	1.37
35	BB	2079	U	N1-C6	-5.05	1.33	1.38
35	BB	2192	U	N3-C4	5.05	1.43	1.38
1	AA	127	G	O4'-C1'	5.05	1.48	1.41
1	AA	160	A	P-O5'	-5.05	1.54	1.59
1	AA	588	G	P-O5'	-5.05	1.54	1.59
1	AA	604	G	C4'-O4'	-5.05	1.39	1.45
1	AA	711	G	P-O5'	-5.05	1.54	1.59
34	BA	97	C	C3'-O3'	5.05	1.49	1.42
35	BB	164	C	C3'-O3'	5.05	1.49	1.42
35	BB	261	G	C6-N1	5.05	1.43	1.39
35	BB	1275	A	C2-N3	5.05	1.38	1.33
35	BB	2091	C	C5-C6	5.05	1.38	1.34
35	BB	2290	G	C4'-C3'	5.05	1.58	1.53
35	BB	2430	A	N1-C2	5.05	1.38	1.34
1	AA	65	A	C2-N3	5.05	1.38	1.33
1	AA	253	A	C6-N6	5.05	1.38	1.33
1	AA	371	A	P-O5'	-5.05	1.54	1.59
1	AA	422	C	C5'-C4'	5.05	1.57	1.51
1	AA	551	U	C5'-C4'	5.05	1.57	1.51
1	AA	987	G	C3'-C2'	5.05	1.58	1.52
1	AA	1238	A	C6-N6	5.05	1.38	1.33
1	AA	1418	A	O3'-P	-5.05	1.55	1.61
1	AA	1485	U	C3'-O3'	-5.05	1.35	1.42
35	BB	925	A	P-O5'	5.05	1.64	1.59
35	BB	984	A	N3-C4	-5.05	1.31	1.34
35	BB	1084	A	C3'-C2'	5.05	1.58	1.52
35	BB	1238	G	C6-N1	5.05	1.43	1.39
35	BB	1492	G	N9-C8	5.05	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1772	A	C6-N6	5.05	1.38	1.33
35	BB	1800	C	C2-N3	5.05	1.39	1.35
35	BB	2460	U	C4-C5	-5.05	1.39	1.43
35	BB	2508	G	C2'-C1'	-5.05	1.47	1.53
46	BM	81	ARG	CZ-NH2	5.05	1.39	1.33
1	AA	539	A	C5-C6	-5.05	1.36	1.41
1	AA	558	G	N7-C5	5.05	1.42	1.39
1	AA	597	G	C2'-C1'	-5.05	1.47	1.53
1	AA	1243	C	N1-C6	-5.05	1.34	1.37
35	BB	649	G	O4'-C1'	5.05	1.48	1.41
35	BB	1714	U	O3'-P	-5.05	1.55	1.61
35	BB	1955	U	C4'-O4'	-5.05	1.39	1.45
35	BB	2188	U	C3'-C2'	-5.05	1.47	1.52
35	BB	2880	C	P-O5'	-5.05	1.54	1.59
1	AA	95	C	C4-N4	5.05	1.38	1.33
1	AA	201	G	P-O5'	-5.05	1.54	1.59
1	AA	259	G	C2'-C1'	5.05	1.58	1.53
1	AA	742	G	C3'-O3'	5.05	1.49	1.42
1	AA	831	A	N3-C4	-5.05	1.31	1.34
1	AA	1502	A	O3'-P	-5.05	1.55	1.61
18	AR	31	TYR	CZ-OH	5.05	1.46	1.37
29	B4	27	ARG	CZ-NH2	5.05	1.39	1.33
35	BB	201	C	N1-C6	5.05	1.40	1.37
35	BB	367	G	C2-N2	5.05	1.39	1.34
35	BB	815	C	P-OP2	5.05	1.57	1.49
35	BB	1320	C	N1-C6	-5.05	1.34	1.37
35	BB	1745	A	N3-C4	5.05	1.37	1.34
35	BB	2023	C	C2'-C1'	-5.05	1.47	1.53
35	BB	2070	A	N3-C4	-5.05	1.31	1.34
35	BB	2114	A	C6-N1	5.05	1.39	1.35
1	AA	498	A	N9-C4	5.04	1.40	1.37
1	AA	589	U	C2'-O2'	-5.04	1.35	1.41
1	AA	771	G	O3'-P	-5.04	1.55	1.61
1	AA	896	C	N3-C4	5.04	1.37	1.33
1	AA	1415	G	C2'-C1'	-5.04	1.47	1.53
30	B5	190	GLU	CD-OE2	5.04	1.31	1.25
35	BB	1326	U	N1-C2	5.04	1.43	1.38
35	BB	1910	G	C5-C4	5.04	1.41	1.38
37	BD	83	ARG	CZ-NH2	5.04	1.39	1.33
1	AA	129	A	C5-C4	5.04	1.42	1.38
1	AA	191	G	C3'-C2'	5.04	1.58	1.52
1	AA	589	U	C4'-C3'	5.04	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	763	G	C2'-C1'	-5.04	1.47	1.53
1	AA	1132	C	N1-C6	5.04	1.40	1.37
34	BA	72	G	C5'-C4'	5.04	1.57	1.51
35	BB	29	U	C2'-O2'	-5.04	1.35	1.41
35	BB	360	U	C2-N3	5.04	1.41	1.37
35	BB	466	A	O4'-C1'	-5.04	1.35	1.41
35	BB	843	G	N1-C2	5.04	1.41	1.37
35	BB	1330	C	N3-C4	5.04	1.37	1.33
35	BB	1341	G	C2-N2	5.04	1.39	1.34
35	BB	1745	A	C5-C4	5.04	1.42	1.38
35	BB	1961	C	N1-C2	-5.04	1.35	1.40
35	BB	2121	G	N9-C4	-5.04	1.33	1.38
35	BB	2543	G	C2-N3	5.04	1.36	1.32
49	BP	71	ARG	NE-CZ	5.04	1.39	1.33
1	AA	13	U	C4'-O4'	-5.04	1.39	1.45
1	AA	40	C	C4-N4	5.04	1.38	1.33
1	AA	44	A	N3-C4	-5.04	1.31	1.34
1	AA	45	G	N9-C8	-5.04	1.34	1.37
1	AA	166	U	N3-C4	5.04	1.43	1.38
1	AA	776	G	P-O5'	-5.04	1.54	1.59
1	AA	808	C	C5'-C4'	5.04	1.57	1.51
1	AA	814	A	C6-N6	-5.04	1.29	1.33
21	AU	23	GLU	CD-OE2	5.04	1.31	1.25
35	BB	87	U	C4'-C3'	-5.04	1.47	1.52
35	BB	971	G	C4'-C3'	-5.04	1.47	1.52
35	BB	1422	G	N1-C2	-5.04	1.33	1.37
35	BB	1592	C	N3-C4	5.04	1.37	1.33
35	BB	1732	C	C3'-C2'	-5.04	1.47	1.52
35	BB	2027	G	P-O5'	5.04	1.64	1.59
35	BB	2588	G	C5'-C4'	5.04	1.57	1.51
1	AA	393	A	C2'-C1'	-5.04	1.47	1.53
1	AA	1049	U	N3-C4	5.04	1.43	1.38
4	AD	169	TRP	CD2-CE3	-5.04	1.32	1.40
35	BB	1639	C	N1-C2	-5.04	1.35	1.40
35	BB	2120	G	C6-N1	-5.04	1.36	1.39
35	BB	2483	C	C4-C5	5.04	1.47	1.43
35	BB	2511	U	C2-N3	5.04	1.41	1.37
1	AA	138	G	N9-C8	5.04	1.41	1.37
1	AA	246	A	C4'-O4'	5.04	1.52	1.45
1	AA	380	G	P-O5'	-5.04	1.54	1.59
1	AA	432	A	O4'-C1'	-5.04	1.35	1.41
1	AA	500	G	C5'-C4'	5.04	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	646	G	C5-C4	5.04	1.41	1.38
1	AA	1024	G	N9-C8	-5.04	1.34	1.37
22	AV	67	G	C6-N1	5.04	1.43	1.39
35	BB	407	G	N3-C4	5.04	1.39	1.35
35	BB	688	U	C2-N3	5.04	1.41	1.37
35	BB	796	C	N3-C4	5.04	1.37	1.33
35	BB	1099	G	C2-N2	-5.04	1.29	1.34
35	BB	1558	C	C4'-O4'	-5.04	1.39	1.45
35	BB	1701	A	O3'-P	-5.04	1.55	1.61
35	BB	1800	C	C5-C6	5.04	1.38	1.34
35	BB	2064	C	P-O5'	-5.04	1.54	1.59
35	BB	2439	A	N7-C5	-5.04	1.36	1.39
35	BB	2594	C	C3'-C2'	-5.04	1.47	1.52
35	BB	2755	C	C3'-C2'	5.04	1.58	1.52
36	BC	41	GLY	CA-C	-5.04	1.43	1.51
44	BK	30	ARG	CZ-NH1	5.04	1.39	1.33
2	AB	64	GLY	CA-C	-5.04	1.43	1.51
35	BB	1094	U	C2-N3	5.04	1.41	1.37
35	BB	1536	C	O3'-P	-5.04	1.55	1.61
35	BB	2201	G	N7-C5	-5.04	1.36	1.39
35	BB	2713	U	C3'-O3'	-5.04	1.35	1.42
55	BW	7	GLU	CA-C	-5.04	1.39	1.52
1	AA	1310	G	C8-N7	5.04	1.33	1.30
11	AK	43	TRP	CA-CB	5.04	1.65	1.53
35	BB	124	G	C2-N3	5.04	1.36	1.32
35	BB	563	A	C6-N6	5.04	1.38	1.33
35	BB	771	G	N1-C2	5.04	1.41	1.37
35	BB	799	G	C2'-C1'	-5.04	1.47	1.53
35	BB	1131	G	N3-C4	-5.04	1.31	1.35
35	BB	1195	G	O4'-C1'	5.04	1.48	1.41
35	BB	1287	A	C8-N7	-5.04	1.28	1.31
35	BB	1416	G	O3'-P	-5.04	1.55	1.61
35	BB	1438	U	N3-C4	5.04	1.43	1.38
35	BB	1884	G	N1-C2	5.04	1.41	1.37
35	BB	2347	C	N3-C4	5.04	1.37	1.33
35	BB	2433	A	C6-N6	5.04	1.38	1.33
35	BB	2500	U	C4'-C3'	-5.04	1.47	1.52
35	BB	2731	G	P-O5'	-5.04	1.54	1.59
35	BB	2770	G	P-O5'	-5.04	1.54	1.59
1	AA	163	C	N1-C6	-5.03	1.34	1.37
1	AA	505	G	N9-C4	-5.03	1.33	1.38
1	AA	628	G	N7-C5	-5.03	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1221	G	C3'-C2'	-5.03	1.47	1.52
1	AA	1301	U	C1'-N1	5.03	1.56	1.48
35	BB	1374	G	C3'-C2'	-5.03	1.47	1.52
35	BB	1408	G	O5'-C5'	-5.03	1.34	1.42
35	BB	1870	C	C5'-C4'	5.03	1.57	1.51
35	BB	2291	U	C1'-N1	-5.03	1.39	1.46
35	BB	2292	U	C5-C6	5.03	1.38	1.34
35	BB	2343	U	N3-C4	5.03	1.43	1.38
35	BB	2699	C	C4-C5	5.03	1.47	1.43
48	BO	86	GLY	CA-C	-5.03	1.43	1.51
5	AE	17	VAL	CB-CG2	5.03	1.63	1.52
35	BB	170	U	N1-C6	5.03	1.42	1.38
35	BB	1134	A	C5-C6	5.03	1.45	1.41
35	BB	1424	G	N1-C2	5.03	1.41	1.37
35	BB	1474	U	O3'-P	-5.03	1.55	1.61
35	BB	1695	G	C4'-O4'	5.03	1.52	1.45
35	BB	2280	G	C2'-O2'	-5.03	1.35	1.41
1	AA	118	U	N1-C6	5.03	1.42	1.38
1	AA	456	A	P-O5'	-5.03	1.54	1.59
1	AA	607	A	N7-C5	-5.03	1.36	1.39
1	AA	611	C	C4-N4	5.03	1.38	1.33
1	AA	1112	C	C2'-C1'	-5.03	1.47	1.53
34	BA	10	G	C3'-C2'	5.03	1.58	1.52
35	BB	313	G	N1-C2	5.03	1.41	1.37
35	BB	431	U	N1-C2	5.03	1.43	1.38
35	BB	532	A	C2'-C1'	-5.03	1.47	1.53
35	BB	588	U	O4'-C1'	-5.03	1.35	1.41
35	BB	742	A	C3'-C2'	-5.03	1.47	1.52
35	BB	1254	A	N3-C4	5.03	1.37	1.34
35	BB	1337	G	N9-C4	-5.03	1.33	1.38
35	BB	1817	G	C5-C6	-5.03	1.37	1.42
35	BB	1848	A	C5-C4	5.03	1.42	1.38
35	BB	2145	C	C4-C5	-5.03	1.39	1.43
35	BB	2427	C	P-O5'	5.03	1.64	1.59
35	BB	2735	G	N3-C4	5.03	1.39	1.35
1	AA	404	G	P-O5'	5.03	1.64	1.59
34	BA	115	A	N9-C4	5.03	1.40	1.37
35	BB	997	G	O3'-P	-5.03	1.55	1.61
35	BB	1333	G	C2'-C1'	-5.03	1.47	1.53
35	BB	1584	U	C3'-C2'	5.03	1.58	1.52
35	BB	2741	A	C3'-C2'	-5.03	1.47	1.52
1	AA	230	G	C5-C6	5.03	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	426	U	C2-O2	5.03	1.26	1.22
1	AA	851	G	C6-N1	-5.03	1.36	1.39
1	AA	1005	A	C6-N6	5.03	1.38	1.33
1	AA	1085	U	P-O5'	-5.03	1.54	1.59
1	AA	1358	U	O4'-C1'	-5.03	1.35	1.41
35	BB	323	C	C2'-C1'	-5.03	1.47	1.53
35	BB	501	A	C5-C6	-5.03	1.36	1.41
35	BB	774	G	N7-C5	-5.03	1.36	1.39
35	BB	1127	A	C6-N1	5.03	1.39	1.35
35	BB	1361	G	C2'-C1'	-5.03	1.47	1.53
35	BB	1622	G	C6-N1	5.03	1.43	1.39
35	BB	2215	C	O3'-P	-5.03	1.55	1.61
35	BB	2530	A	N1-C2	5.03	1.38	1.34
1	AA	86	G	O4'-C1'	5.03	1.48	1.41
1	AA	172	A	N9-C4	-5.03	1.34	1.37
1	AA	319	G	C2-N3	5.03	1.36	1.32
1	AA	951	G	C5-C4	5.03	1.41	1.38
1	AA	1451	U	C3'-C2'	5.03	1.58	1.52
1	AA	1466	C	P-O5'	5.03	1.64	1.59
22	AV	69	G	N7-C5	-5.03	1.36	1.39
34	BA	87	U	N3-C4	5.03	1.43	1.38
35	BB	645	C	C3'-C2'	-5.03	1.47	1.52
35	BB	995	C	C3'-C2'	5.03	1.58	1.52
35	BB	1589	U	P-O5'	5.03	1.64	1.59
35	BB	1699	G	C6-N1	5.03	1.43	1.39
35	BB	1744	A	O3'-P	-5.03	1.55	1.61
35	BB	2168	G	C3'-O3'	5.03	1.49	1.42
1	AA	47	C	N3-C4	5.02	1.37	1.33
1	AA	600	A	C8-N7	5.02	1.35	1.31
1	AA	1012	A	N9-C4	5.02	1.40	1.37
34	BA	5	U	N1-C2	5.02	1.43	1.38
35	BB	1032	A	C2'-C1'	-5.02	1.47	1.53
53	BT	52	GLU	CD-OE1	5.02	1.31	1.25
1	AA	163	C	C4'-O4'	5.02	1.52	1.45
1	AA	531	U	C5-C6	5.02	1.38	1.34
1	AA	624	C	C3'-C2'	-5.02	1.47	1.52
1	AA	939	G	N9-C4	-5.02	1.33	1.38
1	AA	1049	U	C1'-N1	5.02	1.56	1.48
1	AA	1056	U	C4-C5	5.02	1.48	1.43
1	AA	1231	G	C2'-C1'	-5.02	1.47	1.53
1	AA	1449	C	N3-C4	-5.02	1.30	1.33
13	AM	92	ARG	NE-CZ	5.02	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	157	C	C2-N3	-5.02	1.31	1.35
35	BB	235	U	N3-C4	5.02	1.43	1.38
35	BB	274	C	O4'-C1'	5.02	1.48	1.41
35	BB	495	G	C5'-C4'	5.02	1.57	1.51
35	BB	738	G	N9-C8	5.02	1.41	1.37
35	BB	1284	A	N9-C4	5.02	1.40	1.37
35	BB	1877	A	C5-C4	5.02	1.42	1.38
35	BB	2555	U	C1'-N1	5.02	1.56	1.48
35	BB	2590	A	N9-C8	-5.02	1.33	1.37
35	BB	19	A	C4'-C3'	-5.02	1.47	1.52
35	BB	586	A	O4'-C1'	-5.02	1.35	1.41
35	BB	1541	C	C2'-C1'	-5.02	1.47	1.53
1	AA	120	A	C8-N7	-5.02	1.28	1.31
1	AA	125	U	P-O5'	-5.02	1.54	1.59
1	AA	432	A	O3'-P	-5.02	1.55	1.61
1	AA	661	G	N9-C4	5.02	1.42	1.38
1	AA	949	A	C6-N1	5.02	1.39	1.35
1	AA	1454	G	C6-N1	5.02	1.43	1.39
1	AA	1457	G	C6-N1	5.02	1.43	1.39
13	AM	1	ALA	N-CA	5.02	1.56	1.46
34	BA	8	C	C2'-C1'	-5.02	1.47	1.53
35	BB	36	G	C4'-C3'	-5.02	1.47	1.52
35	BB	240	C	C4-C5	5.02	1.47	1.43
35	BB	380	G	C1'-N9	-5.02	1.39	1.46
35	BB	594	U	O5'-C5'	5.02	1.52	1.44
35	BB	855	G	C5'-C4'	5.02	1.57	1.51
35	BB	1428	C	C4-N4	5.02	1.38	1.33
35	BB	1678	A	C5-C4	-5.02	1.35	1.38
35	BB	2358	A	N9-C8	5.02	1.41	1.37
36	BC	225	ASN	CG-ND2	5.02	1.45	1.32
1	AA	406	G	C2-N3	5.02	1.36	1.32
1	AA	903	G	C8-N7	-5.02	1.27	1.30
1	AA	1089	G	N9-C4	-5.02	1.33	1.38
1	AA	1208	C	P-O5'	-5.02	1.54	1.59
1	AA	1262	C	N3-C4	5.02	1.37	1.33
1	AA	1277	C	O4'-C1'	-5.02	1.35	1.41
5	AE	141	ASP	CB-CG	5.02	1.62	1.51
35	BB	224	U	C4'-C3'	-5.02	1.47	1.52
35	BB	469	G	N3-C4	-5.02	1.31	1.35
35	BB	763	G	C1'-N9	-5.02	1.39	1.46
35	BB	1467	U	C4-C5	5.02	1.48	1.43
35	BB	1729	U	C4'-O4'	-5.02	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2019	A	C5'-C4'	5.02	1.57	1.51
35	BB	2086	U	C1'-N1	5.02	1.56	1.48
35	BB	2377	A	C6-N6	5.02	1.38	1.33
35	BB	2480	C	C4-N4	5.02	1.38	1.33
1	AA	418	C	O3'-P	-5.02	1.55	1.61
1	AA	1333	A	C6-N1	5.02	1.39	1.35
35	BB	42	A	C2-N3	5.02	1.38	1.33
35	BB	45	G	N1-C2	5.02	1.41	1.37
35	BB	327	G	N3-C4	-5.02	1.31	1.35
35	BB	333	G	O3'-P	-5.02	1.55	1.61
35	BB	798	G	O3'-P	-5.02	1.55	1.61
35	BB	1303	G	C4'-O4'	-5.02	1.39	1.45
35	BB	1567	G	O3'-P	-5.02	1.55	1.61
35	BB	2446	G	C6-O6	-5.02	1.19	1.24
1	AA	72	A	N3-C4	-5.01	1.31	1.34
1	AA	113	G	C6-N1	5.01	1.43	1.39
1	AA	240	G	N9-C4	-5.01	1.33	1.38
1	AA	244	U	O3'-P	-5.01	1.55	1.61
1	AA	405	U	N3-C4	5.01	1.43	1.38
1	AA	537	G	C3'-C2'	-5.01	1.47	1.52
1	AA	937	A	O3'-P	-5.01	1.55	1.61
1	AA	1088	G	N9-C8	-5.01	1.34	1.37
35	BB	5	A	N7-C5	-5.01	1.36	1.39
35	BB	188	G	C5-C6	5.01	1.47	1.42
35	BB	610	C	C5'-C4'	5.01	1.57	1.51
35	BB	1205	A	C5-C4	-5.01	1.35	1.38
35	BB	1399	C	N3-C4	5.01	1.37	1.33
35	BB	2153	C	C4-C5	-5.01	1.39	1.43
35	BB	2167	U	C2-N3	5.01	1.41	1.37
35	BB	2175	C	N3-C4	5.01	1.37	1.33
35	BB	2205	A	O3'-P	-5.01	1.55	1.61
35	BB	2315	G	C2-N2	5.01	1.39	1.34
35	BB	2451	A	C5-C4	5.01	1.42	1.38
35	BB	2486	C	C4'-O4'	5.01	1.52	1.45
37	BD	46	ARG	CZ-NH1	5.01	1.39	1.33
1	AA	146	G	N1-C2	5.01	1.41	1.37
1	AA	324	G	C6-N1	5.01	1.43	1.39
1	AA	953	G	C6-N1	5.01	1.43	1.39
1	AA	1227	A	C5'-C4'	5.01	1.57	1.51
34	BA	71	C	N1-C6	-5.01	1.34	1.37
35	BB	1139	G	C2-N2	-5.01	1.29	1.34
35	BB	1907	G	N1-C2	5.01	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2076	U	C4'-C3'	5.01	1.58	1.53
35	BB	2338	C	C4-C5	5.01	1.47	1.43
1	AA	64	G	C6-O6	5.01	1.28	1.24
1	AA	834	U	C2-N3	5.01	1.41	1.37
1	AA	1249	C	N3-C4	5.01	1.37	1.33
8	AH	85	TYR	CG-CD1	5.01	1.45	1.39
35	BB	71	A	O4'-C1'	5.01	1.48	1.41
35	BB	276	U	C3'-C2'	5.01	1.58	1.52
35	BB	673	C	C2-N3	5.01	1.39	1.35
35	BB	1993	U	N1-C6	5.01	1.42	1.38
35	BB	2538	C	C2-N3	5.01	1.39	1.35
35	BB	2646	C	C2'-C1'	-5.01	1.47	1.53
35	BB	2714	G	C2-N3	5.01	1.36	1.32
35	BB	2726	A	C8-N7	-5.01	1.28	1.31
47	BN	22	ARG	NE-CZ	5.01	1.39	1.33
1	AA	141	G	N1-C2	-5.01	1.33	1.37
1	AA	689	C	C4'-C3'	-5.01	1.47	1.52
1	AA	1012	A	N3-C4	-5.01	1.31	1.34
1	AA	1381	U	C2-N3	-5.01	1.34	1.37
34	BA	31	C	C4'-C3'	-5.01	1.47	1.52
35	BB	101	A	N3-C4	5.01	1.37	1.34
35	BB	364	C	C4-N4	5.01	1.38	1.33
35	BB	1113	U	C4-C5	5.01	1.48	1.43
35	BB	1320	C	C3'-C2'	-5.01	1.47	1.52
35	BB	1583	A	C8-N7	-5.01	1.28	1.31
35	BB	2120	G	O5'-C5'	5.01	1.52	1.44
35	BB	2204	G	N9-C4	-5.01	1.33	1.38
35	BB	2461	A	C6-N6	5.01	1.38	1.33
35	BB	2491	U	O4'-C1'	5.01	1.48	1.41
1	AA	408	A	C4'-O4'	-5.01	1.39	1.45
4	AD	145	ARG	NE-CZ	5.01	1.39	1.33
35	BB	800	A	N1-C2	-5.01	1.29	1.34
35	BB	1730	C	C2-N3	-5.01	1.31	1.35
35	BB	1827	U	C2-N3	5.01	1.41	1.37
1	AA	269	C	C4-N4	5.01	1.38	1.33
1	AA	423	G	C8-N7	5.01	1.33	1.30
1	AA	986	U	N1-C6	5.01	1.42	1.38
1	AA	1502	A	N1-C2	-5.01	1.29	1.34
7	AG	95	ARG	CZ-NH2	5.01	1.39	1.33
35	BB	4	U	C2'-O2'	5.01	1.48	1.41
35	BB	347	A	C4'-C3'	5.01	1.58	1.53
35	BB	905	A	N9-C4	5.01	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	1249	U	C2'-C1'	-5.01	1.47	1.53
35	BB	1569	A	C6-N1	5.01	1.39	1.35
35	BB	2126	A	N7-C5	-5.01	1.36	1.39
35	BB	2315	G	C2-N3	5.01	1.36	1.32
35	BB	2547	A	C2-N3	5.01	1.38	1.33
35	BB	2849	U	O4'-C1'	-5.01	1.35	1.41
1	AA	1170	A	O4'-C1'	-5.00	1.35	1.41
1	AA	1214	C	C1'-N1	5.00	1.56	1.48
1	AA	1473	G	N9-C4	-5.00	1.33	1.38
35	BB	1479	G	N9-C8	5.00	1.41	1.37
35	BB	2862	G	O3'-P	-5.00	1.55	1.61
1	AA	285	C	C2-O2	-5.00	1.20	1.24
1	AA	431	A	C5-C6	5.00	1.45	1.41
1	AA	431	A	N1-C2	5.00	1.38	1.34
1	AA	816	A	N1-C2	-5.00	1.29	1.34
1	AA	1262	C	O3'-P	-5.00	1.55	1.61
1	AA	1411	C	N1-C6	5.00	1.40	1.37
35	BB	423	A	O3'-P	-5.00	1.55	1.61
35	BB	581	C	P-O5'	-5.00	1.54	1.59
35	BB	589	U	C2-O2	5.00	1.26	1.22
35	BB	633	A	P-O5'	-5.00	1.54	1.59
35	BB	766	U	N3-C4	5.00	1.43	1.38
35	BB	826	U	N1-C6	5.00	1.42	1.38
35	BB	2812	G	C5'-C4'	5.00	1.57	1.51
35	BB	2839	G	C2'-C1'	-5.00	1.47	1.53
35	BB	2879	A	C5-C6	-5.00	1.36	1.41
1	AA	16	A	N9-C4	-5.00	1.34	1.37
1	AA	130	A	C2-N3	5.00	1.38	1.33
1	AA	422	C	P-O5'	-5.00	1.54	1.59
1	AA	1069	C	C3'-C2'	-5.00	1.47	1.52
1	AA	1465	A	C6-N1	-5.00	1.32	1.35
35	BB	14	A	C3'-C2'	-5.00	1.47	1.52
35	BB	41	C	C1'-N1	5.00	1.56	1.48
35	BB	175	G	C2-N3	5.00	1.36	1.32
35	BB	233	A	N1-C2	5.00	1.38	1.34
35	BB	251	A	C5'-C4'	-5.00	1.45	1.51
35	BB	389	G	N3-C4	-5.00	1.31	1.35
35	BB	410	G	N3-C4	-5.00	1.31	1.35
35	BB	429	A	C2'-C1'	-5.00	1.47	1.53
35	BB	1685	C	C2-N3	5.00	1.39	1.35
35	BB	1836	C	C5'-C4'	5.00	1.57	1.51
35	BB	2221	G	P-O5'	-5.00	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BB	2522	U	C2'-C1'	-5.00	1.47	1.53
35	BB	2613	U	C4-C5	5.00	1.48	1.43

All (26300) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	753	A	N1-C6-N6	30.52	136.91	118.60
35	BB	666	A	N1-C6-N6	26.10	134.26	118.60
35	BB	533	G	N1-C6-O6	25.90	135.44	119.90
1	AA	242	G	C5-C6-O6	-25.60	113.24	128.60
35	BB	1014	A	N1-C6-N6	25.57	133.94	118.60
1	AA	977	A	N1-C6-N6	25.54	133.92	118.60
35	BB	1566	A	N1-C6-N6	25.23	133.74	118.60
1	AA	1507	A	N1-C6-N6	24.69	133.41	118.60
35	BB	1347	A	N1-C6-N6	24.39	133.23	118.60
35	BB	315	G	N1-C6-O6	24.16	134.40	119.90
1	AA	293	G	N1-C6-O6	24.08	134.35	119.90
35	BB	1358	G	C5-C6-O6	-23.83	114.30	128.60
35	BB	2119	A	N1-C6-N6	23.80	132.88	118.60
1	AA	85	U	P-O3'-C3'	23.75	148.21	119.70
35	BB	272	A	N1-C6-N6	23.55	132.73	118.60
1	AA	1111	A	N1-C6-N6	23.52	132.71	118.60
35	BB	730	A	N1-C6-N6	23.46	132.68	118.60
35	BB	1622	G	N1-C6-O6	23.36	133.92	119.90
35	BB	217	A	N1-C6-N6	23.08	132.45	118.60
1	AA	1396	A	N1-C6-N6	23.03	132.42	118.60
1	AA	164	G	C5-C6-O6	-22.97	114.82	128.60
35	BB	647	G	N1-C6-O6	22.95	133.67	119.90
22	AV	73	A	N1-C6-N6	22.87	132.32	118.60
35	BB	2426	A	N1-C6-N6	22.86	132.32	118.60
35	BB	1193	G	C5-C6-O6	-22.70	114.98	128.60
35	BB	1622	G	C5-C6-O6	-22.61	115.03	128.60
1	AA	164	G	N1-C6-O6	22.56	133.44	119.90
1	AA	262	A	N1-C6-N6	22.47	132.08	118.60
35	BB	2042	A	N1-C6-N6	22.46	132.08	118.60
35	BB	261	G	C5-C6-O6	-22.42	115.15	128.60
1	AA	1418	A	N1-C6-N6	22.40	132.04	118.60
35	BB	1659	G	C5-C6-O6	-22.34	115.19	128.60
35	BB	2731	G	N1-C6-O6	22.34	133.30	119.90
35	BB	2013	A	N1-C6-N6	22.31	131.99	118.60
1	AA	369	G	N1-C6-O6	22.27	133.26	119.90
35	BB	1676	A	N1-C6-N6	22.25	131.95	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	115	A	N1-C6-N6	22.23	131.94	118.60
35	BB	881	G	N1-C6-O6	22.22	133.23	119.90
1	AA	242	G	N1-C6-O6	22.19	133.21	119.90
35	BB	800	A	N1-C6-N6	22.18	131.91	118.60
35	BB	1936	A	N1-C6-N6	22.13	131.88	118.60
1	AA	1276	G	N1-C6-O6	22.10	133.16	119.90
1	AA	1012	A	N1-C6-N6	22.09	131.85	118.60
35	BB	2132	U	P-O3'-C3'	22.00	146.10	119.70
35	BB	2037	A	N1-C6-N6	21.92	131.75	118.60
35	BB	896	A	N1-C6-N6	21.90	131.74	118.60
1	AA	1251	A	N1-C6-N6	21.82	131.69	118.60
35	BB	123	G	N1-C6-O6	21.80	132.98	119.90
35	BB	738	G	C5-C6-O6	-21.80	115.52	128.60
1	AA	263	A	N1-C6-N6	21.75	131.65	118.60
35	BB	2201	G	N1-C6-O6	21.74	132.95	119.90
35	BB	1193	G	N1-C6-O6	21.74	132.94	119.90
35	BB	1659	G	N1-C6-O6	21.74	132.94	119.90
35	BB	2217	G	C5-C6-O6	-21.70	115.58	128.60
35	BB	2471	A	N1-C6-N6	21.66	131.59	118.60
1	AA	718	A	N1-C6-N6	21.62	131.57	118.60
1	AA	192	A	N1-C6-N6	21.58	131.55	118.60
1	AA	881	G	N1-C6-O6	21.31	132.69	119.90
35	BB	647	G	C5-C6-O6	-21.31	115.82	128.60
35	BB	261	G	N1-C6-O6	21.30	132.68	119.90
35	BB	131	A	N1-C6-N6	21.22	131.33	118.60
35	BB	788	A	N1-C6-N6	21.14	131.29	118.60
35	BB	2134	A	N1-C6-N6	21.14	131.28	118.60
1	AA	1493	A	N1-C6-N6	21.13	131.28	118.60
35	BB	2003	A	N1-C6-N6	21.13	131.28	118.60
35	BB	738	G	N1-C6-O6	21.12	132.57	119.90
34	BA	102	G	C5-C6-O6	-21.07	115.96	128.60
34	BA	102	G	N1-C6-O6	21.03	132.52	119.90
35	BB	515	A	N1-C6-N6	21.00	131.20	118.60
1	AA	1196	A	N1-C6-N6	20.99	131.19	118.60
1	AA	369	G	C5-C6-O6	-20.98	116.01	128.60
1	AA	765	G	N1-C6-O6	20.93	132.46	119.90
35	BB	2852	G	N1-C6-O6	20.91	132.45	119.90
34	BA	29	A	N1-C6-N6	20.90	131.14	118.60
35	BB	1246	A	N1-C6-N6	20.90	131.14	118.60
35	BB	1387	A	N1-C6-N6	20.82	131.09	118.60
1	AA	1077	G	C5-C6-O6	-20.81	116.11	128.60
35	BB	2446	G	N1-C6-O6	20.80	132.38	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	781	A	N1-C6-N6	20.78	131.07	118.60
35	BB	354	A	N1-C6-N6	20.77	131.06	118.60
1	AA	205	A	N1-C6-N6	20.77	131.06	118.60
35	BB	379	G	N1-C6-O6	20.65	132.29	119.90
1	AA	975	A	N1-C6-N6	20.64	130.98	118.60
35	BB	1424	G	C5-C6-O6	-20.64	116.22	128.60
1	AA	278	G	N1-C6-O6	20.63	132.28	119.90
35	BB	315	G	C5-C6-O6	-20.59	116.25	128.60
1	AA	1252	A	N1-C6-N6	20.55	130.93	118.60
35	BB	637	A	N1-C6-N6	20.55	130.93	118.60
35	BB	1504	A	N1-C6-N6	20.54	130.93	118.60
1	AA	1016	A	N1-C6-N6	20.49	130.90	118.60
35	BB	1054	A	N1-C6-N6	20.49	130.89	118.60
35	BB	1593	A	N1-C6-N6	20.27	130.76	118.60
35	BB	533	G	C5-C6-O6	-20.27	116.44	128.60
35	BB	583	G	C5-C6-O6	-20.21	116.47	128.60
35	BB	1525	A	N1-C6-N6	20.21	130.73	118.60
35	BB	2585	U	P-O3'-C3'	20.18	143.91	119.70
35	BB	2217	G	N1-C6-O6	20.18	132.00	119.90
35	BB	190	A	N1-C6-N6	20.14	130.69	118.60
35	BB	1697	G	N1-C6-O6	20.09	131.95	119.90
35	BB	2340	A	N1-C6-N6	20.09	130.65	118.60
1	AA	994	A	N1-C6-N6	20.08	130.65	118.60
34	BA	45	A	N1-C6-N6	20.08	130.65	118.60
1	AA	907	A	N1-C6-N6	20.07	130.64	118.60
35	BB	2323	G	N1-C6-O6	20.05	131.93	119.90
35	BB	1434	A	N1-C6-N6	20.04	130.63	118.60
35	BB	2869	G	C5-C6-O6	-20.01	116.59	128.60
1	AA	1087	G	N1-C6-O6	20.01	131.91	119.90
35	BB	160	A	N1-C6-N6	19.98	130.59	118.60
35	BB	1296	G	N1-C6-O6	19.98	131.89	119.90
35	BB	2446	G	C5-C6-O6	-19.97	116.62	128.60
1	AA	432	A	N1-C6-N6	19.96	130.57	118.60
1	AA	1019	A	N1-C6-N6	19.95	130.57	118.60
35	BB	123	G	C5-C6-O6	-19.91	116.65	128.60
1	AA	179	A	N1-C6-N6	19.89	130.53	118.60
35	BB	1634	A	N1-C6-N6	19.88	130.53	118.60
35	BB	1089	A	N1-C6-N6	19.88	130.53	118.60
34	BA	96	G	C5-C6-O6	-19.87	116.68	128.60
35	BB	2835	A	N1-C6-N6	19.84	130.50	118.60
22	AV	69	G	N1-C6-O6	19.80	131.78	119.90
35	BB	2024	G	N1-C6-O6	19.77	131.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1519	G	N1-C6-O6	19.76	131.76	119.90
35	BB	833	A	N1-C6-N6	19.74	130.44	118.60
35	BB	2530	A	N1-C6-N6	19.74	130.44	118.60
34	BA	112	G	C5-C6-O6	-19.71	116.78	128.60
1	AA	499	A	N1-C6-N6	19.70	130.42	118.60
35	BB	2675	A	N1-C6-N6	19.65	130.39	118.60
22	AV	69	G	C5-C6-O6	-19.59	116.85	128.60
1	AA	98	A	N1-C6-N6	19.58	130.35	118.60
34	BA	34	A	N1-C6-N6	19.57	130.34	118.60
1	AA	1373	G	C5-C6-O6	-19.55	116.87	128.60
1	AA	441	A	N1-C6-N6	19.49	130.29	118.60
1	AA	1276	G	C5-C6-O6	-19.47	116.92	128.60
1	AA	303	A	N1-C6-N6	19.44	130.26	118.60
35	BB	503	A	N1-C6-N6	19.42	130.25	118.60
1	AA	710	G	N1-C6-O6	19.37	131.52	119.90
35	BB	75	G	N1-C6-O6	19.35	131.51	119.90
35	BB	324	A	N1-C6-N6	19.34	130.21	118.60
1	AA	75	G	N1-C6-O6	19.34	131.50	119.90
35	BB	1000	A	N1-C6-N6	19.33	130.20	118.60
1	AA	31	G	N1-C6-O6	19.33	131.50	119.90
34	BA	96	G	N1-C6-O6	19.30	131.48	119.90
34	BA	71	C	C6-N1-C2	-19.27	112.59	120.30
1	AA	1429	A	N1-C6-N6	19.25	130.15	118.60
35	BB	2572	A	N1-C6-N6	19.24	130.15	118.60
1	AA	1101	A	N1-C6-N6	19.18	130.11	118.60
35	BB	2763	G	N1-C6-O6	19.18	131.41	119.90
35	BB	677	A	N1-C6-N6	19.15	130.09	118.60
35	BB	1831	G	C5-C6-O6	-19.13	117.12	128.60
1	AA	1043	G	N1-C6-O6	19.05	131.33	119.90
34	BA	109	A	N1-C6-N6	19.05	130.03	118.60
1	AA	314	C	O4'-C1'-N1	19.02	123.42	108.20
1	AA	902	G	N1-C6-O6	19.01	131.31	119.90
1	AA	1431	A	N1-C6-N6	19.01	130.00	118.60
35	BB	2136	G	N1-C6-O6	18.95	131.27	119.90
35	BB	1215	G	C5-C6-O6	-18.93	117.25	128.60
35	BB	1385	A	N1-C6-N6	18.92	129.95	118.60
1	AA	484	G	N1-C6-O6	18.92	131.25	119.90
35	BB	969	G	N1-C6-O6	18.91	131.25	119.90
35	BB	2158	A	N1-C6-N6	18.91	129.94	118.60
35	BB	910	A	N1-C6-N6	18.84	129.90	118.60
35	BB	977	G	N1-C6-O6	18.84	131.20	119.90
35	BB	347	A	N1-C6-N6	18.82	129.89	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1701	A	N1-C6-N6	18.82	129.89	118.60
1	AA	240	G	N1-C6-O6	18.81	131.18	119.90
35	BB	907	G	N1-C6-O6	18.79	131.17	119.90
35	BB	843	G	N1-C6-O6	18.77	131.16	119.90
35	BB	2162	G	N1-C6-O6	18.77	131.16	119.90
1	AA	16	A	N1-C6-N6	18.70	129.82	118.60
1	AA	1401	G	N1-C6-O6	18.69	131.12	119.90
1	AA	424	G	N1-C6-O6	18.68	131.11	119.90
35	BB	332	A	N1-C6-N6	18.67	129.81	118.60
35	BB	1642	G	N1-C6-O6	18.61	131.06	119.90
1	AA	1144	G	N1-C6-O6	18.59	131.06	119.90
1	AA	519	C	N3-C4-C5	-18.59	114.47	121.90
35	BB	1388	G	C5-C6-O6	-18.58	117.45	128.60
35	BB	1374	G	N1-C6-O6	18.56	131.04	119.90
35	BB	1051	G	N1-C6-O6	18.55	131.03	119.90
1	AA	1092	A	N1-C6-N6	18.52	129.71	118.60
35	BB	1831	G	N1-C6-O6	18.51	131.01	119.90
35	BB	1875	G	C5-C6-O6	-18.51	117.49	128.60
35	BB	2377	A	N1-C6-N6	18.50	129.70	118.60
1	AA	279	A	N1-C6-N6	18.49	129.69	118.60
35	BB	2717	C	C6-N1-C2	-18.48	112.91	120.30
1	AA	493	A	N1-C6-N6	18.46	129.68	118.60
1	AA	1509	C	N3-C4-N4	18.45	130.91	118.00
1	AA	948	C	N3-C4-C5	-18.44	114.52	121.90
35	BB	1358	G	N1-C6-O6	18.44	130.96	119.90
1	AA	1077	G	N1-C6-O6	18.43	130.96	119.90
35	BB	1609	A	N1-C6-N6	18.43	129.66	118.60
1	AA	181	A	N1-C6-N6	18.43	129.66	118.60
1	AA	190	A	N1-C6-N6	18.38	129.63	118.60
1	AA	327	A	N1-C6-N6	18.37	129.62	118.60
35	BB	327	G	N1-C6-O6	18.37	130.92	119.90
35	BB	2628	C	O4'-C1'-N1	18.35	122.88	108.20
1	AA	675	A	N1-C6-N6	18.33	129.60	118.60
1	AA	189	A	N1-C6-N6	18.32	129.59	118.60
35	BB	1237	A	N1-C6-N6	18.31	129.58	118.60
35	BB	2006	C	N3-C4-C5	-18.27	114.59	121.90
35	BB	2468	A	C4-C5-C6	18.27	126.13	117.00
1	AA	1408	A	N1-C6-N6	18.26	129.56	118.60
35	BB	494	G	C5-C6-O6	-18.25	117.65	128.60
1	AA	168	G	N1-C6-O6	18.21	130.83	119.90
35	BB	918	A	N1-C6-N6	18.20	129.52	118.60
35	BB	1144	A	N1-C6-N6	18.19	129.51	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2764	A	N1-C6-N6	18.18	129.50	118.60
35	BB	2812	G	C5-C6-O6	-18.17	117.70	128.60
35	BB	1085	A	N1-C6-N6	18.16	129.50	118.60
1	AA	964	A	N1-C6-N6	18.14	129.48	118.60
35	BB	1713	A	N1-C6-N6	18.12	129.47	118.60
35	BB	80	G	N1-C6-O6	18.08	130.75	119.90
35	BB	2691	C	O4'-C1'-N1	18.07	122.66	108.20
1	AA	1285	A	N1-C6-N6	18.06	129.44	118.60
1	AA	1433	A	N1-C6-N6	18.06	129.44	118.60
35	BB	203	A	N1-C6-N6	18.06	129.43	118.60
35	BB	2781	A	N1-C6-N6	18.05	129.43	118.60
35	BB	2899	A	N1-C6-N6	18.05	129.43	118.60
35	BB	2191	A	N1-C6-N6	18.02	129.41	118.60
1	AA	993	G	C5-C6-O6	-18.01	117.79	128.60
35	BB	2029	G	C5-C6-O6	-18.00	117.80	128.60
35	BB	1469	A	C5-C6-N1	-17.98	108.71	117.70
1	AA	833	G	N1-C6-O6	17.98	130.69	119.90
1	AA	1226	C	P-O3'-C3'	17.98	141.27	119.70
1	AA	1482	G	N1-C6-O6	17.96	130.67	119.90
35	BB	722	A	N1-C6-N6	17.92	129.35	118.60
35	BB	2682	A	N1-C6-N6	17.91	129.34	118.60
35	BB	699	A	C4-C5-C6	17.89	125.95	117.00
35	BB	2402	U	P-O3'-C3'	17.89	141.17	119.70
35	BB	326	G	C6-C5-N7	-17.88	119.67	130.40
1	AA	44	A	N1-C2-N3	17.87	138.23	129.30
1	AA	604	G	N1-C6-O6	17.86	130.62	119.90
1	AA	645	G	N1-C6-O6	17.86	130.62	119.90
1	AA	167	A	N1-C6-N6	17.85	129.31	118.60
35	BB	2027	G	N1-C6-O6	17.84	130.60	119.90
35	BB	2883	A	N1-C6-N6	17.83	129.30	118.60
35	BB	1548	A	N1-C6-N6	17.82	129.29	118.60
35	BB	721	A	N1-C6-N6	17.81	129.29	118.60
35	BB	2497	A	N1-C6-N6	17.81	129.29	118.60
35	BB	739	A	N1-C6-N6	17.80	129.28	118.60
1	AA	227	G	N1-C6-O6	17.78	130.57	119.90
35	BB	2734	A	N1-C6-N6	17.77	129.26	118.60
35	BB	1641	A	N1-C6-N6	17.75	129.25	118.60
35	BB	2325	G	N1-C6-O6	17.75	130.55	119.90
35	BB	2447	G	C5-C6-O6	-17.75	117.95	128.60
35	BB	2857	G	N1-C6-O6	17.75	130.55	119.90
1	AA	1039	G	C5-C6-O6	-17.74	117.96	128.60
35	BB	626	A	N1-C6-N6	17.74	129.24	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2241	A	N1-C6-N6	17.71	129.22	118.60
35	BB	480	A	N1-C6-N6	17.69	129.21	118.60
1	AA	1422	G	C5-C6-O6	-17.68	118.00	128.60
35	BB	2225	A	N1-C6-N6	17.67	129.20	118.60
35	BB	734	A	N1-C6-N6	17.66	129.19	118.60
1	AA	15	G	O4'-C1'-N9	17.65	122.32	108.20
35	BB	1810	A	N1-C6-N6	17.65	129.19	118.60
35	BB	1663	G	C5-C6-O6	-17.64	118.01	128.60
1	AA	627	G	N1-C6-O6	17.62	130.47	119.90
1	AA	201	G	N1-C6-O6	17.61	130.47	119.90
35	BB	1927	A	N1-C6-N6	17.61	129.17	118.60
34	BA	33	G	N1-C6-O6	17.61	130.46	119.90
35	BB	1928	A	N1-C6-N6	17.59	129.15	118.60
35	BB	1598	A	N1-C6-N6	17.58	129.15	118.60
35	BB	2019	A	N1-C6-N6	17.58	129.15	118.60
1	AA	645	G	C5-C6-O6	-17.58	118.05	128.60
35	BB	1226	A	N1-C6-N6	17.57	129.15	118.60
35	BB	1735	A	N1-C6-N6	17.51	129.11	118.60
35	BB	2146	C	N3-C4-C5	-17.50	114.90	121.90
1	AA	142	G	N1-C6-O6	17.49	130.39	119.90
35	BB	2536	G	N1-C6-O6	17.48	130.39	119.90
35	BB	1424	G	N1-C6-O6	17.47	130.38	119.90
1	AA	933	G	N1-C6-O6	17.47	130.38	119.90
35	BB	2635	A	N1-C6-N6	17.46	129.07	118.60
35	BB	2275	C	N3-C4-C5	-17.44	114.92	121.90
1	AA	240	G	C5-C6-O6	-17.43	118.14	128.60
35	BB	1389	G	N1-C6-O6	17.43	130.36	119.90
35	BB	2765	A	N1-C6-N6	17.41	129.05	118.60
1	AA	50	A	N1-C6-N6	17.41	129.04	118.60
35	BB	621	A	N1-C6-N6	17.41	129.04	118.60
35	BB	471	A	N1-C6-N6	17.40	129.04	118.60
35	BB	1590	A	N1-C6-N6	17.39	129.04	118.60
1	AA	673	A	N1-C6-N6	17.39	129.03	118.60
34	BA	33	G	C5-C6-O6	-17.38	118.17	128.60
35	BB	1862	G	N1-C6-O6	17.36	130.32	119.90
35	BB	2358	A	N1-C6-N6	17.35	129.01	118.60
1	AA	527	G	O4'-C1'-N9	17.34	122.07	108.20
35	BB	380	G	C8-N9-C4	-17.34	99.46	106.40
35	BB	1284	A	N1-C6-N6	17.34	129.00	118.60
1	AA	328	C	P-O3'-C3'	17.34	140.50	119.70
1	AA	1035	A	N1-C6-N6	17.34	129.00	118.60
1	AA	132	C	O4'-C1'-N1	17.32	122.06	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	918	A	N1-C6-N6	17.32	128.99	118.60
35	BB	2731	G	C5-C6-O6	-17.31	118.22	128.60
35	BB	1839	G	C5-C6-O6	-17.31	118.22	128.60
1	AA	59	A	C4-C5-C6	17.31	125.65	117.00
35	BB	2625	G	C5-C6-O6	-17.30	118.22	128.60
1	AA	1482	G	C5-C6-O6	-17.30	118.22	128.60
35	BB	258	G	C5-C6-O6	-17.29	118.22	128.60
1	AA	968	A	N1-C6-N6	17.27	128.96	118.60
35	BB	2529	G	C5-C6-O6	-17.27	118.24	128.60
34	BA	15	A	N1-C6-N6	17.26	128.95	118.60
1	AA	1266	G	C8-N9-C4	-17.25	99.50	106.40
35	BB	2886	A	N1-C6-N6	17.25	128.95	118.60
35	BB	697	G	C5-C6-O6	-17.24	118.26	128.60
1	AA	1422	G	N1-C6-O6	17.24	130.24	119.90
35	BB	844	A	N1-C6-N6	17.20	128.92	118.60
35	BB	2837	A	N1-C6-N6	17.20	128.92	118.60
35	BB	482	A	N1-C6-N6	17.19	128.91	118.60
1	AA	1166	G	N1-C6-O6	17.18	130.21	119.90
1	AA	1370	G	N1-C6-O6	17.18	130.21	119.90
35	BB	488	G	N1-C6-O6	17.17	130.20	119.90
35	BB	718	A	N1-C6-N6	17.15	128.89	118.60
35	BB	2323	G	C5-C6-O6	-17.15	118.31	128.60
35	BB	890	C	P-O3'-C3'	17.14	140.27	119.70
1	AA	539	A	N1-C6-N6	17.14	128.88	118.60
35	BB	2516	A	N1-C6-N6	17.14	128.88	118.60
35	BB	2444	G	N1-C6-O6	17.13	130.18	119.90
35	BB	2094	A	N1-C6-N6	17.12	128.87	118.60
1	AA	777	A	N1-C6-N6	17.11	128.86	118.60
1	AA	376	G	N1-C6-O6	17.10	130.16	119.90
35	BB	2083	G	C8-N9-C4	-17.10	99.56	106.40
1	AA	1373	G	N1-C6-O6	17.07	130.14	119.90
34	BA	27	C	C6-N1-C2	-17.07	113.47	120.30
35	BB	1953	A	N1-C6-N6	17.04	128.82	118.60
35	BB	2336	A	P-O3'-C3'	17.03	140.14	119.70
35	BB	2198	A	N1-C6-N6	17.01	128.81	118.60
35	BB	2335	A	N1-C6-N6	17.00	128.80	118.60
1	AA	993	G	N1-C6-O6	16.99	130.09	119.90
1	AA	888	G	N1-C6-O6	16.98	130.09	119.90
35	BB	1342	A	N1-C6-N6	16.97	128.78	118.60
35	BB	745	G	N1-C6-O6	16.96	130.08	119.90
35	BB	439	A	N1-C6-N6	16.96	128.78	118.60
1	AA	1456	A	N1-C6-N6	16.95	128.77	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	505	A	N1-C6-N6	16.94	128.76	118.60
35	BB	1690	A	O4'-C1'-N9	16.94	121.75	108.20
35	BB	1524	G	N1-C2-N3	-16.92	113.75	123.90
35	BB	142	A	N1-C6-N6	16.92	128.75	118.60
35	BB	2627	G	N1-C6-O6	16.92	130.05	119.90
35	BB	256	A	N1-C6-N6	16.92	128.75	118.60
35	BB	881	G	C5-C6-O6	-16.90	118.46	128.60
35	BB	1322	A	N1-C6-N6	16.90	128.74	118.60
35	BB	901	C	N3-C4-C5	-16.88	115.15	121.90
35	BB	960	A	N1-C6-N6	16.88	128.73	118.60
35	BB	2363	G	N1-C6-O6	16.88	130.03	119.90
35	BB	2156	G	N1-C6-O6	16.88	130.03	119.90
35	BB	2488	G	N1-C6-O6	16.87	130.02	119.90
35	BB	1352	U	O4'-C1'-N1	16.86	121.69	108.20
1	AA	881	G	C5-C6-O6	-16.86	118.48	128.60
1	AA	1128	C	C6-N1-C2	-16.86	113.56	120.30
35	BB	410	G	N1-C6-O6	16.85	130.01	119.90
35	BB	2289	G	N1-C6-O6	16.83	130.00	119.90
1	AA	983	A	N1-C6-N6	16.83	128.70	118.60
35	BB	2136	G	C5-C6-O6	-16.82	118.51	128.60
35	BB	2030	A	N1-C6-N6	16.82	128.69	118.60
35	BB	2459	A	N1-C6-N6	16.81	128.69	118.60
35	BB	2281	A	N1-C2-N3	16.81	137.71	129.30
1	AA	100	G	N1-C6-O6	16.81	129.99	119.90
35	BB	638	G	N1-C6-O6	16.78	129.97	119.90
35	BB	1900	A	N1-C6-N6	16.77	128.66	118.60
35	BB	707	G	N1-C6-O6	16.76	129.96	119.90
35	BB	715	A	N1-C6-N6	16.76	128.66	118.60
35	BB	748	G	N1-C6-O6	16.76	129.96	119.90
1	AA	45	G	N1-C6-O6	16.75	129.95	119.90
1	AA	616	G	C8-N9-C4	-16.73	99.71	106.40
1	AA	243	A	N1-C6-N6	16.73	128.64	118.60
35	BB	91	A	N1-C6-N6	16.70	128.62	118.60
35	BB	2418	A	N1-C6-N6	16.66	128.60	118.60
35	BB	2378	A	C4-C5-C6	16.65	125.32	117.00
35	BB	900	A	O4'-C1'-N9	16.64	121.52	108.20
35	BB	633	A	N1-C6-N6	16.64	128.59	118.60
35	BB	1875	G	N1-C6-O6	16.61	129.87	119.90
35	BB	2114	A	N1-C6-N6	16.61	128.57	118.60
34	BA	50	A	N1-C6-N6	16.61	128.56	118.60
35	BB	859	G	N1-C6-O6	16.60	129.86	119.90
34	BA	117	G	N1-C6-O6	16.59	129.85	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1551	A	P-O3'-C3'	16.58	139.60	119.70
35	BB	990	A	C5-C6-N1	-16.58	109.41	117.70
35	BB	2872	A	N1-C6-N6	16.58	128.55	118.60
1	AA	1036	A	N1-C6-N6	16.58	128.55	118.60
35	BB	2632	A	N1-C6-N6	16.58	128.55	118.60
35	BB	1448	G	N1-C6-O6	16.56	129.84	119.90
1	AA	1055	A	N1-C6-N6	16.55	128.53	118.60
35	BB	2875	C	C6-N1-C2	-16.55	113.68	120.30
1	AA	60	A	N1-C6-N6	16.54	128.53	118.60
35	BB	1456	G	N1-C6-O6	16.54	129.83	119.90
35	BB	886	A	P-O3'-C3'	16.54	139.54	119.70
35	BB	2852	G	C5-C6-O6	-16.53	118.68	128.60
1	AA	1507	A	C5-C6-N6	-16.52	110.48	123.70
35	BB	2602	A	N1-C6-N6	16.52	128.51	118.60
35	BB	2448	A	N1-C6-N6	16.51	128.50	118.60
1	AA	1244	G	N1-C6-O6	16.50	129.80	119.90
1	AA	304	U	O4'-C1'-N1	16.50	121.40	108.20
35	BB	1542	U	O4'-C1'-N1	16.50	121.40	108.20
35	BB	781	A	C5-C6-N1	-16.49	109.45	117.70
35	BB	13	A	N1-C6-N6	16.48	128.49	118.60
35	BB	1791	A	N1-C6-N6	16.47	128.48	118.60
35	BB	2097	A	N1-C6-N6	16.46	128.48	118.60
35	BB	954	G	N1-C6-O6	16.44	129.77	119.90
1	AA	411	A	C5-C6-N1	-16.43	109.48	117.70
35	BB	972	A	C4-C5-C6	16.43	125.22	117.00
4	AD	25	ARG	NE-CZ-NH1	16.41	128.51	120.30
35	BB	2383	G	N1-C6-O6	16.40	129.74	119.90
35	BB	843	G	C5-C6-O6	-16.40	118.76	128.60
34	BA	58	A	N1-C6-N6	16.40	128.44	118.60
1	AA	1244	G	C5-C6-O6	-16.39	118.76	128.60
35	BB	2450	A	N1-C6-N6	16.39	128.43	118.60
35	BB	996	A	N1-C6-N6	16.38	128.43	118.60
35	BB	2375	G	N1-C6-O6	16.38	129.73	119.90
1	AA	1480	A	N1-C6-N6	16.37	128.42	118.60
35	BB	271	G	C5-C6-O6	-16.36	118.78	128.60
35	BB	2478	A	N1-C6-N6	16.36	128.42	118.60
34	BA	30	C	N3-C4-N4	16.36	129.45	118.00
1	AA	1257	A	N1-C6-N6	16.35	128.41	118.60
35	BB	1682	G	N1-C6-O6	16.35	129.71	119.90
1	AA	923	A	N1-C6-N6	16.33	128.40	118.60
35	BB	538	A	N1-C6-N6	16.33	128.40	118.60
35	BB	2360	G	C5-C6-O6	-16.31	118.81	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	987	G	C4-C5-C6	16.30	128.58	118.80
1	AA	435	A	N1-C6-N6	16.29	128.38	118.60
1	AA	293	G	C5-C6-O6	-16.27	118.84	128.60
35	BB	716	A	C4-C5-C6	16.26	125.13	117.00
1	AA	1284	C	P-O3'-C3'	16.25	139.20	119.70
1	AA	431	A	N1-C6-N6	16.24	128.34	118.60
35	BB	1994	C	O4'-C1'-N1	16.23	121.18	108.20
35	BB	1462	C	O4'-C1'-N1	16.23	121.18	108.20
35	BB	1527	G	N1-C6-O6	16.23	129.64	119.90
1	AA	1065	U	P-O3'-C3'	16.20	139.14	119.70
1	AA	1312	G	N1-C6-O6	16.20	129.62	119.90
1	AA	667	G	N1-C6-O6	16.20	129.62	119.90
1	AA	411	A	N1-C6-N6	16.19	128.32	118.60
1	AA	1280	A	N1-C6-N6	16.19	128.31	118.60
35	BB	1519	G	C5-C6-O6	-16.18	118.89	128.60
35	BB	483	A	O4'-C1'-N9	16.18	121.14	108.20
35	BB	1241	A	N1-C6-N6	16.17	128.30	118.60
35	BB	2318	G	N1-C6-O6	16.17	129.60	119.90
1	AA	48	C	N3-C4-C5	-16.16	115.44	121.90
35	BB	194	G	N1-C6-O6	16.16	129.59	119.90
35	BB	1694	C	N3-C4-C5	-16.16	115.44	121.90
35	BB	879	G	C5-C6-O6	-16.15	118.91	128.60
35	BB	182	A	C4-C5-C6	16.14	125.07	117.00
35	BB	1309	G	N1-C6-O6	16.14	129.58	119.90
35	BB	2115	G	C5-C6-O6	-16.14	118.92	128.60
35	BB	2284	A	N1-C6-N6	16.14	128.28	118.60
35	BB	2588	G	N1-C6-O6	16.14	129.58	119.90
1	AA	227	G	C5-C6-O6	-16.12	118.93	128.60
35	BB	2763	G	C5-C6-O6	-16.11	118.93	128.60
35	BB	1456	G	C5-C6-O6	-16.11	118.93	128.60
35	BB	752	A	N1-C6-N6	16.11	128.26	118.60
1	AA	1434	A	N1-C2-N3	16.11	137.35	129.30
30	B5	180	PHE	CB-CG-CD1	16.11	132.07	120.80
35	BB	1444	G	C5-C6-O6	-16.10	118.94	128.60
35	BB	948	C	O4'-C1'-N1	16.09	121.07	108.20
1	AA	577	G	N1-C6-O6	16.09	129.55	119.90
35	BB	2123	G	C5-C6-O6	-16.07	118.95	128.60
1	AA	1446	A	N1-C6-N6	16.07	128.24	118.60
1	AA	1401	G	C5-C6-O6	-16.05	118.97	128.60
1	AA	16	A	C5-C6-N1	-16.05	109.67	117.70
1	AA	331	G	C5-C6-O6	-16.05	118.97	128.60
1	AA	1357	A	N1-C6-N6	16.05	128.23	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1089	A	C5-C6-N6	-16.04	110.87	123.70
1	AA	746	A	N1-C6-N6	16.02	128.21	118.60
35	BB	2049	G	C5-C6-O6	-16.02	118.99	128.60
35	BB	2211	A	N1-C6-N6	16.01	128.21	118.60
35	BB	2183	A	N1-C6-N6	16.01	128.21	118.60
1	AA	364	A	N1-C6-N6	16.01	128.20	118.60
35	BB	2432	A	N1-C6-N6	16.01	128.20	118.60
35	BB	1354	A	N1-C6-N6	16.00	128.20	118.60
35	BB	417	C	N3-C4-C5	-16.00	115.50	121.90
35	BB	165	A	N1-C6-N6	15.99	128.20	118.60
35	BB	1213	A	N1-C6-N6	15.99	128.19	118.60
35	BB	716	A	C5-C6-N1	-15.98	109.71	117.70
35	BB	1839	G	N1-C6-O6	15.98	129.49	119.90
35	BB	1526	C	N3-C4-C5	-15.98	115.51	121.90
1	AA	671	G	C5-C6-O6	-15.97	119.02	128.60
1	AA	604	G	C5-C6-O6	-15.97	119.02	128.60
1	AA	902	G	C5-C6-O6	-15.96	119.02	128.60
35	BB	1037	G	N1-C6-O6	15.96	129.47	119.90
35	BB	1967	C	N3-C4-C5	-15.95	115.52	121.90
35	BB	1419	A	N1-C6-N6	15.94	128.16	118.60
1	AA	640	A	N1-C6-N6	15.93	128.16	118.60
28	B3	51	ARG	NE-CZ-NH2	15.93	128.26	120.30
1	AA	377	G	C5-C6-O6	-15.93	119.05	128.60
35	BB	95	A	N1-C6-N6	15.92	128.15	118.60
35	BB	575	A	N1-C6-N6	15.92	128.15	118.60
1	AA	386	C	C6-N1-C2	-15.91	113.93	120.30
1	AA	702	A	N1-C6-N6	15.90	128.14	118.60
35	BB	1975	G	N1-C6-O6	15.88	129.43	119.90
35	BB	151	C	N3-C4-C5	-15.85	115.56	121.90
35	BB	2175	C	O4'-C1'-N1	15.84	120.87	108.20
1	AA	162	A	N1-C6-N6	15.84	128.10	118.60
1	AA	909	A	N1-C6-N6	15.84	128.10	118.60
35	BB	818	G	C5-C6-O6	-15.83	119.10	128.60
35	BB	805	G	N1-C6-O6	15.83	129.40	119.90
35	BB	2826	A	N1-C6-N6	15.82	128.09	118.60
1	AA	817	C	C6-N1-C2	-15.82	113.97	120.30
1	AA	1453	G	O4'-C1'-N9	15.81	120.85	108.20
35	BB	2414	G	N1-C6-O6	15.81	129.39	119.90
1	AA	384	G	C5-C6-O6	-15.81	119.11	128.60
1	AA	400	C	N3-C4-N4	15.81	129.06	118.00
35	BB	2531	A	N1-C6-N6	15.80	128.08	118.60
35	BB	1669	A	N1-C6-N6	15.80	128.08	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1350	C	O4'-C1'-N1	15.79	120.83	108.20
35	BB	727	A	N1-C6-N6	15.79	128.07	118.60
34	BA	112	G	N1-C6-O6	15.78	129.37	119.90
1	AA	1087	G	C5-C6-O6	-15.78	119.13	128.60
35	BB	947	A	N1-C6-N6	15.78	128.07	118.60
35	BB	2812	G	N1-C6-O6	15.78	129.37	119.90
35	BB	2170	A	N1-C6-N6	15.76	128.06	118.60
1	AA	1067	A	N1-C6-N6	15.76	128.05	118.60
35	BB	551	G	C5-C6-O6	-15.76	119.15	128.60
35	BB	1029	A	N1-C6-N6	15.76	128.05	118.60
1	AA	946	A	N1-C6-N6	15.75	128.05	118.60
35	BB	2434	A	N1-C6-N6	15.75	128.05	118.60
1	AA	1022	A	C8-N9-C4	-15.74	99.50	105.80
1	AA	1150	A	N1-C6-N6	15.74	128.04	118.60
35	BB	1766	G	N1-C6-O6	15.74	129.34	119.90
35	BB	1868	C	O4'-C1'-N1	15.73	120.78	108.20
35	BB	1984	G	N1-C6-O6	15.73	129.34	119.90
1	AA	320	A	N1-C6-N6	15.72	128.03	118.60
1	AA	1218	C	C6-N1-C2	-15.72	114.01	120.30
35	BB	1371	G	N1-C6-O6	15.72	129.33	119.90
1	AA	1299	A	C4-C5-C6	15.71	124.86	117.00
35	BB	1575	C	O4'-C1'-N1	15.71	120.77	108.20
35	BB	2766	A	N1-C6-N6	15.71	128.03	118.60
1	AA	851	G	N1-C6-O6	15.70	129.32	119.90
35	BB	863	A	N1-C6-N6	15.70	128.02	118.60
35	BB	1048	A	N1-C6-N6	15.70	128.02	118.60
35	BB	1296	G	C5-C6-O6	-15.69	119.18	128.60
1	AA	116	A	N1-C6-N6	15.69	128.01	118.60
35	BB	730	A	C5-C6-N6	-15.68	111.16	123.70
35	BB	1134	A	N1-C6-N6	15.67	128.00	118.60
35	BB	1544	A	N1-C6-N6	15.67	128.00	118.60
1	AA	353	A	N1-C6-N6	15.66	128.00	118.60
35	BB	1754	A	N1-C6-N6	15.66	128.00	118.60
1	AA	377	G	N1-C6-O6	15.66	129.30	119.90
35	BB	210	C	O4'-C1'-N1	15.66	120.73	108.20
1	AA	404	G	N1-C6-O6	15.66	129.29	119.90
1	AA	649	A	N1-C6-N6	15.65	127.99	118.60
35	BB	194	G	C5-C6-O6	-15.65	119.21	128.60
35	BB	2633	G	N1-C6-O6	15.65	129.29	119.90
35	BB	648	G	N1-C6-O6	15.64	129.29	119.90
35	BB	1520	U	O4'-C1'-N1	15.64	120.71	108.20
28	B3	12	ARG	NE-CZ-NH2	-15.64	112.48	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	990	A	N1-C6-N6	15.64	127.98	118.60
35	BB	1603	A	N1-C6-N6	15.64	127.98	118.60
35	BB	2031	A	N1-C6-N6	15.64	127.98	118.60
35	BB	2102	G	N1-C6-O6	15.64	129.28	119.90
35	BB	1050	A	N1-C6-N6	15.62	127.97	118.60
35	BB	2516	A	C8-N9-C4	-15.62	99.55	105.80
35	BB	1144	A	C5-C6-N1	-15.61	109.89	117.70
1	AA	784	A	N1-C6-N6	15.61	127.97	118.60
1	AA	315	A	N1-C6-N6	15.61	127.97	118.60
35	BB	330	A	N1-C6-N6	15.61	127.96	118.60
1	AA	121	U	O4'-C1'-N1	15.60	120.68	108.20
1	AA	424	G	C5-C6-N1	-15.60	103.70	111.50
1	AA	1055	A	C8-N9-C4	-15.60	99.56	105.80
35	BB	443	A	N1-C6-N6	15.60	127.96	118.60
1	AA	1418	A	C5-C6-N1	-15.60	109.90	117.70
35	BB	2115	G	N1-C6-O6	15.60	129.26	119.90
34	BA	115	A	C5-C6-N6	-15.60	111.22	123.70
1	AA	197	A	N1-C6-N6	15.59	127.95	118.60
35	BB	101	A	N1-C6-N6	15.59	127.95	118.60
35	BB	1032	A	N1-C6-N6	15.59	127.95	118.60
1	AA	1465	A	N1-C6-N6	15.59	127.95	118.60
1	AA	142	G	C5-C6-O6	-15.58	119.25	128.60
35	BB	1429	G	N1-C6-O6	15.58	129.25	119.90
35	BB	2882	A	N1-C6-N6	15.57	127.94	118.60
35	BB	809	G	N1-C6-O6	15.57	129.24	119.90
35	BB	2369	A	N1-C6-N6	15.57	127.94	118.60
35	BB	1429	G	C5-C6-O6	-15.56	119.26	128.60
1	AA	819	A	C8-N9-C4	-15.56	99.58	105.80
35	BB	2235	G	C5-C6-O6	-15.55	119.27	128.60
35	BB	2542	A	N1-C6-N6	15.55	127.93	118.60
35	BB	1246	A	C5-C6-N1	-15.54	109.93	117.70
34	BA	52	A	N1-C6-N6	15.53	127.92	118.60
1	AA	1514	G	C5-C6-O6	-15.53	119.28	128.60
35	BB	1572	A	N1-C6-N6	15.53	127.92	118.60
35	BB	196	A	N1-C6-N6	15.53	127.92	118.60
47	BN	86	ARG	NE-CZ-NH2	-15.53	112.54	120.30
1	AA	1413	A	O4'-C1'-N9	15.52	120.62	108.20
1	AA	68	G	C5-C6-O6	-15.52	119.29	128.60
35	BB	352	A	N1-C6-N6	15.51	127.91	118.60
1	AA	747	A	N1-C6-N6	15.51	127.91	118.60
35	BB	291	G	N1-C6-O6	15.51	129.21	119.90
35	BB	771	G	N1-C6-O6	15.51	129.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2147	A	N1-C6-N6	15.51	127.90	118.60
35	BB	1007	C	N3-C4-N4	15.50	128.85	118.00
35	BB	2199	A	N1-C6-N6	15.50	127.90	118.60
1	AA	325	A	N1-C6-N6	15.50	127.90	118.60
1	AA	393	A	N1-C6-N6	15.50	127.90	118.60
1	AA	869	G	N1-C6-O6	15.49	129.19	119.90
35	BB	260	G	C5-C6-O6	-15.49	119.31	128.60
35	BB	622	G	N1-C6-O6	15.49	129.19	119.90
35	BB	2434	A	C5-C6-N1	-15.49	109.96	117.70
35	BB	2294	G	C8-N9-C4	-15.48	100.21	106.40
35	BB	2318	G	C5-C6-O6	-15.48	119.31	128.60
35	BB	1475	G	N1-C6-O6	15.47	129.19	119.90
35	BB	531	C	N3-C4-N4	15.46	128.83	118.00
35	BB	1328	A	N1-C6-N6	15.47	127.88	118.60
1	AA	410	G	O4'-C1'-N9	15.46	120.57	108.20
35	BB	1759	A	N1-C6-N6	15.46	127.88	118.60
35	BB	1780	A	N1-C6-N6	15.45	127.87	118.60
35	BB	2375	G	C5-C6-O6	-15.46	119.33	128.60
35	BB	2327	A	N1-C6-N6	15.45	127.87	118.60
35	BB	2247	A	O4'-C1'-N9	15.45	120.56	108.20
1	AA	1155	A	N1-C6-N6	15.44	127.86	118.60
35	BB	1496	A	C8-N9-C4	-15.42	99.63	105.80
1	AA	149	A	C4-C5-C6	15.41	124.71	117.00
1	AA	1497	G	N1-C6-O6	15.41	129.15	119.90
35	BB	1805	A	N1-C6-N6	15.41	127.85	118.60
22	AV	73	A	C5-C6-N6	-15.40	111.38	123.70
35	BB	1969	A	N1-C6-N6	15.40	127.84	118.60
34	BA	118	C	N3-C4-C5	-15.40	115.74	121.90
1	AA	1068	G	N1-C6-O6	15.39	129.13	119.90
1	AA	53	A	N1-C6-N6	15.39	127.83	118.60
35	BB	989	G	N1-C6-O6	15.38	129.13	119.90
35	BB	1206	G	N1-C6-O6	15.38	129.13	119.90
35	BB	1566	A	C5-C6-N1	-15.38	110.01	117.70
35	BB	1676	A	C5-C6-N1	-15.38	110.01	117.70
35	BB	1828	G	N1-C6-O6	15.38	129.13	119.90
35	BB	1020	A	N1-C6-N6	15.37	127.82	118.60
1	AA	1151	A	N1-C6-N6	15.36	127.82	118.60
1	AA	1287	A	N1-C6-N6	15.36	127.82	118.60
35	BB	233	A	N1-C6-N6	15.36	127.82	118.60
1	AA	1409	C	N3-C4-C5	-15.36	115.76	121.90
35	BB	2287	A	N1-C6-N6	15.36	127.81	118.60
35	BB	2288	A	N1-C6-N6	15.36	127.81	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1828	G	C5-C6-O6	-15.35	119.39	128.60
35	BB	1819	A	N1-C6-N6	15.34	127.81	118.60
35	BB	1238	G	N1-C6-O6	15.34	129.10	119.90
35	BB	2642	G	C8-N9-C4	-15.34	100.26	106.40
35	BB	372	G	C5-C6-O6	-15.33	119.40	128.60
35	BB	207	A	N1-C6-N6	15.33	127.80	118.60
1	AA	544	G	N1-C6-O6	15.32	129.09	119.90
36	BC	202	ARG	NE-CZ-NH1	15.32	127.96	120.30
1	AA	635	A	N1-C6-N6	15.31	127.79	118.60
35	BB	660	C	C6-N1-C2	-15.31	114.18	120.30
35	BB	2126	A	N1-C6-N6	15.31	127.78	118.60
47	BN	64	ARG	NE-CZ-NH1	15.31	127.95	120.30
1	AA	250	A	N1-C6-N6	15.30	127.78	118.60
35	BB	2241	A	C4-C5-C6	15.30	124.65	117.00
35	BB	379	G	C5-C6-O6	-15.29	119.42	128.60
35	BB	298	G	N1-C6-O6	15.28	129.07	119.90
1	AA	1318	A	N1-C6-N6	15.28	127.77	118.60
1	AA	532	A	N1-C6-N6	15.27	127.76	118.60
35	BB	75	G	C5-N7-C8	15.27	111.93	104.30
35	BB	1910	G	O4'-C1'-N9	15.27	120.42	108.20
35	BB	477	A	N1-C6-N6	15.27	127.76	118.60
35	BB	1376	C	O4'-C1'-N1	15.27	120.41	108.20
35	BB	2381	A	N1-C6-N6	15.27	127.76	118.60
35	BB	1515	A	N1-C6-N6	15.26	127.75	118.60
35	BB	1978	A	N1-C6-N6	15.26	127.75	118.60
35	BB	1197	G	C5-C6-O6	-15.25	119.45	128.60
1	AA	941	G	N1-C6-O6	15.24	129.05	119.90
35	BB	1530	G	N1-C6-O6	15.24	129.04	119.90
1	AA	1185	G	N1-C6-O6	15.23	129.04	119.90
35	BB	38	A	N1-C6-N6	15.23	127.74	118.60
35	BB	861	A	C8-N9-C4	15.22	111.89	105.80
35	BB	1989	G	C8-N9-C4	-15.22	100.31	106.40
35	BB	1074	G	N1-C6-O6	15.22	129.03	119.90
35	BB	2024	G	C5-C6-O6	-15.22	119.47	128.60
35	BB	2396	G	C5-C6-O6	-15.21	119.47	128.60
35	BB	212	G	N1-C6-O6	15.20	129.02	119.90
35	BB	1807	G	C5-C6-O6	-15.20	119.48	128.60
35	BB	752	A	C5-C6-N1	-15.18	110.11	117.70
35	BB	1750	G	C5-C6-O6	-15.17	119.50	128.60
1	AA	451	A	N1-C6-N6	15.16	127.69	118.60
35	BB	1882	U	C5-C4-O4	-15.16	116.80	125.90
35	BB	2625	G	N1-C6-O6	15.16	129.00	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1072	G	N1-C6-O6	15.15	128.99	119.90
35	BB	466	A	N1-C6-N6	15.15	127.69	118.60
35	BB	781	A	C4-C5-C6	15.15	124.57	117.00
1	AA	1215	G	C8-N9-C4	-15.14	100.34	106.40
1	AA	1441	A	N1-C6-N6	15.13	127.68	118.60
1	AA	1163	A	N1-C2-N3	-15.12	121.74	129.30
35	BB	1491	G	N1-C6-O6	15.12	128.97	119.90
35	BB	2275	C	C2-N3-C4	15.12	127.46	119.90
35	BB	2005	A	N1-C6-N6	15.12	127.67	118.60
35	BB	1445	G	C5-C6-O6	-15.11	119.53	128.60
35	BB	1853	A	N1-C6-N6	15.11	127.66	118.60
1	AA	1175	G	N1-C6-O6	15.10	128.96	119.90
1	AA	77	A	N1-C6-N6	15.09	127.65	118.60
35	BB	2004	G	N1-C6-O6	15.09	128.95	119.90
35	BB	2538	C	N3-C4-N4	15.08	128.56	118.00
1	AA	1185	G	C5-C6-O6	-15.08	119.55	128.60
35	BB	680	C	N3-C4-N4	15.08	128.56	118.00
1	AA	310	G	N1-C6-O6	15.08	128.94	119.90
1	AA	546	A	N1-C2-N3	15.07	136.83	129.30
35	BB	2641	G	N1-C6-O6	15.06	128.94	119.90
35	BB	2729	G	N1-C6-O6	15.06	128.94	119.90
1	AA	1269	A	N1-C6-N6	15.05	127.63	118.60
35	BB	2588	G	C5-C6-O6	-15.04	119.58	128.60
35	BB	974	G	N1-C6-O6	15.04	128.92	119.90
1	AA	105	G	N1-C6-O6	15.03	128.92	119.90
35	BB	322	A	N1-C6-N6	15.03	127.62	118.60
34	BA	61	G	C5-C6-O6	-15.03	119.58	128.60
35	BB	362	A	N1-C6-N6	15.02	127.61	118.60
1	AA	1514	G	N1-C6-O6	15.01	128.91	119.90
35	BB	1674	G	N1-C6-O6	15.01	128.91	119.90
1	AA	839	C	N3-C4-N4	15.01	128.50	118.00
1	AA	1138	G	C8-N9-C4	-15.00	100.40	106.40
35	BB	2406	A	N1-C6-N6	15.00	127.60	118.60
1	AA	729	A	N1-C6-N6	15.00	127.60	118.60
1	AA	990	C	N3-C4-N4	14.99	128.50	118.00
35	BB	1289	C	O4'-C1'-N1	14.99	120.19	108.20
35	BB	1282	U	O4'-C1'-N1	14.98	120.19	108.20
34	BA	117	G	P-O3'-C3'	14.98	137.67	119.70
35	BB	2487	G	C5-C6-O6	-14.98	119.61	128.60
19	AS	31	ARG	NE-CZ-NH1	14.97	127.78	120.30
1	AA	1508	A	N1-C6-N6	14.97	127.58	118.60
34	BA	117	G	C5-C6-O6	-14.97	119.62	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BH	25	TYR	CB-CG-CD2	-14.96	112.02	121.00
1	AA	321	A	N1-C6-N6	14.96	127.58	118.60
35	BB	2366	A	N1-C6-N6	14.96	127.58	118.60
35	BB	2553	G	N1-C6-O6	14.96	128.88	119.90
35	BB	1889	A	N1-C6-N6	14.95	127.57	118.60
1	AA	1469	C	O4'-C1'-N1	14.94	120.15	108.20
1	AA	1489	G	C5-C6-O6	-14.94	119.64	128.60
35	BB	1482	G	N1-C6-O6	14.94	128.86	119.90
35	BB	9	G	O4'-C1'-N9	14.93	120.14	108.20
35	BB	829	A	N1-C6-N6	14.93	127.56	118.60
1	AA	1396	A	C5-C6-N6	-14.92	111.76	123.70
35	BB	350	G	N1-C6-O6	14.92	128.85	119.90
35	BB	2085	U	O4'-C1'-N1	14.91	120.12	108.20
35	BB	2753	A	N9-C4-C5	14.91	111.76	105.80
35	BB	1773	A	N1-C6-N6	14.90	127.54	118.60
35	BB	907	G	C5-C6-O6	-14.89	119.66	128.60
35	BB	60	G	C5-C6-O6	-14.88	119.67	128.60
35	BB	1058	U	O4'-C1'-N1	14.88	120.11	108.20
35	BB	1248	G	N1-C6-O6	14.88	128.83	119.90
34	BA	85	G	N1-C6-O6	14.88	128.83	119.90
1	AA	45	G	C5-C6-O6	-14.88	119.67	128.60
1	AA	601	G	C5-C6-O6	-14.87	119.68	128.60
1	AA	711	G	N1-C6-O6	14.87	128.82	119.90
35	BB	1077	A	N1-C6-N6	14.87	127.52	118.60
1	AA	797	C	O4'-C1'-N1	14.87	120.09	108.20
1	AA	1513	A	N1-C6-N6	14.87	127.52	118.60
35	BB	2776	A	C4-C5-C6	14.86	124.43	117.00
35	BB	1177	G	N1-C6-O6	14.85	128.81	119.90
35	BB	804	A	N1-C6-N6	14.85	127.51	118.60
1	AA	79	G	N1-C6-O6	14.84	128.81	119.90
35	BB	214	G	N1-C6-O6	14.84	128.81	119.90
35	BB	2467	C	N3-C4-C5	-14.84	115.96	121.90
1	AA	338	A	N1-C6-N6	14.83	127.50	118.60
35	BB	1403	A	N1-C6-N6	14.83	127.50	118.60
35	BB	429	A	N1-C6-N6	14.83	127.50	118.60
35	BB	272	A	C5-C6-N1	-14.82	110.29	117.70
1	AA	1021	A	N1-C6-N6	14.82	127.49	118.60
35	BB	1088	A	O4'-C1'-N9	14.82	120.05	108.20
1	AA	911	U	C6-N1-C2	14.81	129.89	121.00
1	AA	466	A	N1-C6-N6	14.80	127.48	118.60
35	BB	2899	A	C5-C6-N1	-14.80	110.30	117.70
1	AA	947	G	N1-C6-O6	14.80	128.78	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	61	C	N3-C4-C5	-14.79	115.98	121.90
35	BB	500	G	N1-C6-O6	14.79	128.77	119.90
35	BB	2066	C	N3-C4-C5	-14.79	115.98	121.90
35	BB	9	G	N1-C6-O6	14.79	128.77	119.90
35	BB	473	G	N1-C6-O6	14.79	128.77	119.90
35	BB	797	G	C5-C6-O6	-14.79	119.73	128.60
35	BB	2057	G	N1-C6-O6	14.79	128.77	119.90
35	BB	575	A	C5-C6-N6	-14.78	111.87	123.70
35	BB	2468	A	N1-C6-N6	14.78	127.47	118.60
35	BB	2235	G	N1-C6-O6	14.78	128.77	119.90
35	BB	2020	A	N1-C6-N6	14.78	127.47	118.60
35	BB	2089	C	N3-C4-C5	-14.78	115.99	121.90
35	BB	1006	C	N3-C4-C5	-14.77	115.99	121.90
39	BF	91	ARG	NE-CZ-NH2	-14.77	112.92	120.30
35	BB	41	C	N3-C4-N4	14.77	128.34	118.00
35	BB	181	A	N1-C6-N6	14.77	127.46	118.60
35	BB	1529	G	C4-C5-N7	14.76	116.70	110.80
35	BB	1823	G	N1-C2-N3	-14.76	115.05	123.90
35	BB	60	G	N1-C6-O6	14.75	128.75	119.90
31	B6	21	ARG	NE-CZ-NH1	-14.75	112.93	120.30
1	AA	19	A	N1-C6-N6	14.74	127.44	118.60
1	AA	141	G	N1-C6-O6	14.74	128.74	119.90
35	BB	2597	G	C5-C6-O6	-14.73	119.76	128.60
39	BF	6	TYR	CB-CG-CD2	-14.73	112.16	121.00
35	BB	893	C	O4'-C1'-N1	14.72	119.98	108.20
35	BB	1711	A	N1-C6-N6	14.72	127.44	118.60
35	BB	1005	C	O4'-C1'-N1	14.72	119.97	108.20
1	AA	865	A	N1-C6-N6	14.71	127.42	118.60
39	BF	6	TYR	CB-CG-CD1	14.71	129.82	121.00
1	AA	1256	A	N1-C6-N6	14.70	127.42	118.60
35	BB	2639	A	N1-C6-N6	14.70	127.42	118.60
1	AA	141	G	C5-C6-O6	-14.70	119.78	128.60
35	BB	1719	G	O4'-C1'-N9	14.69	119.95	108.20
35	BB	1333	G	N1-C6-O6	14.69	128.72	119.90
35	BB	1077	A	C5-C6-N1	-14.69	110.36	117.70
35	BB	1311	G	N1-C6-O6	14.69	128.71	119.90
35	BB	2227	A	N9-C4-C5	14.68	111.67	105.80
1	AA	1233	G	N1-C6-O6	14.68	128.71	119.90
1	AA	181	A	C5-C6-N1	-14.68	110.36	117.70
35	BB	1772	A	N1-C6-N6	14.68	127.41	118.60
35	BB	2663	G	C6-C5-N7	-14.68	121.59	130.40
35	BB	1635	A	N1-C6-N6	14.67	127.40	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1112	G	N1-C6-O6	14.67	128.70	119.90
35	BB	181	A	O4'-C1'-N9	14.66	119.93	108.20
35	BB	421	C	C6-N1-C2	-14.66	114.44	120.30
1	AA	1347	G	N1-C6-O6	14.66	128.69	119.90
35	BB	83	A	N9-C4-C5	14.66	111.66	105.80
35	BB	2846	G	N1-C6-O6	14.65	128.69	119.90
35	BB	1094	U	O4'-C1'-N1	14.65	119.92	108.20
35	BB	260	G	N1-C6-O6	14.65	128.69	119.90
35	BB	2630	G	C5-C6-O6	-14.65	119.81	128.60
35	BB	510	C	O4'-C1'-N1	14.64	119.91	108.20
35	BB	959	A	N1-C2-N3	-14.64	121.98	129.30
1	AA	422	C	N3-C4-C5	-14.64	116.05	121.90
1	AA	595	A	N1-C6-N6	14.64	127.38	118.60
35	BB	1465	G	C5-C6-O6	-14.63	119.82	128.60
35	BB	1210	G	N1-C6-O6	14.63	128.68	119.90
34	BA	56	G	C8-N9-C4	-14.62	100.55	106.40
35	BB	2863	C	O4'-C1'-N1	14.62	119.90	108.20
35	BB	654	A	N1-C6-N6	14.62	127.37	118.60
35	BB	1076	C	O4'-C1'-N1	14.62	119.89	108.20
35	BB	1804	C	C5-C6-N1	14.61	128.31	121.00
35	BB	1935	G	C5-C6-O6	-14.61	119.83	128.60
35	BB	680	C	C5-C4-N4	-14.61	109.97	120.20
35	BB	1528	A	N1-C6-N6	14.60	127.36	118.60
1	AA	1102	A	N1-C6-N6	14.59	127.36	118.60
1	AA	1521	C	O4'-C1'-N1	14.59	119.87	108.20
1	AA	269	C	O4'-C1'-N1	14.59	119.87	108.20
1	AA	286	C	O4'-C1'-N1	14.59	119.87	108.20
1	AA	1288	A	C8-N9-C4	-14.59	99.97	105.80
35	BB	2665	A	N1-C6-N6	14.59	127.35	118.60
1	AA	1331	G	N1-C6-O6	14.58	128.65	119.90
35	BB	371	A	N1-C6-N6	14.58	127.35	118.60
35	BB	404	A	N1-C6-N6	14.58	127.35	118.60
35	BB	2809	A	N1-C6-N6	14.58	127.35	118.60
35	BB	1797	G	N1-C2-N3	-14.57	115.16	123.90
35	BB	215	G	C5-C6-O6	-14.57	119.86	128.60
1	AA	1180	A	N1-C6-N6	14.56	127.34	118.60
35	BB	948	C	N3-C4-N4	14.55	128.18	118.00
35	BB	2394	C	N3-C4-C5	-14.55	116.08	121.90
35	BB	1818	U	O4'-C1'-N1	14.54	119.83	108.20
40	BG	108	PHE	CB-CG-CD2	14.54	130.98	120.80
35	BB	1013	C	C6-N1-C2	14.54	126.12	120.30
35	BB	764	A	N1-C6-N6	14.53	127.32	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	848	C	O4'-C1'-N1	14.53	119.82	108.20
35	BB	2772	C	O4'-C1'-N1	14.53	119.82	108.20
35	BB	528	A	N1-C6-N6	14.53	127.32	118.60
1	AA	313	A	N1-C6-N6	14.52	127.31	118.60
35	BB	1034	G	N1-C6-O6	14.50	128.60	119.90
35	BB	2106	U	O4'-C1'-N1	14.49	119.79	108.20
35	BB	2813	A	N1-C6-N6	14.49	127.29	118.60
1	AA	575	G	C5-C6-O6	-14.49	119.91	128.60
35	BB	859	G	C5-C6-O6	-14.48	119.91	128.60
1	AA	1219	A	N1-C6-N6	14.48	127.29	118.60
35	BB	1998	A	N1-C6-N6	14.48	127.29	118.60
35	BB	2430	A	C4-C5-C6	14.48	124.24	117.00
35	BB	2867	G	N1-C2-N3	-14.47	115.22	123.90
1	AA	59	A	C4-C5-N7	-14.47	103.47	110.70
1	AA	563	A	N1-C6-N6	14.46	127.28	118.60
35	BB	1465	G	N1-C6-O6	14.46	128.57	119.90
35	BB	1593	A	C5-C6-N6	-14.46	112.13	123.70
35	BB	1994	C	N3-C4-N4	14.46	128.12	118.00
39	BF	21	TYR	CB-CG-CD1	-14.46	112.33	121.00
1	AA	1455	G	N1-C6-O6	14.45	128.57	119.90
35	BB	943	A	C4-C5-C6	14.45	124.23	117.00
35	BB	1096	A	N1-C6-N6	14.45	127.27	118.60
35	BB	682	G	N1-C6-O6	14.45	128.57	119.90
1	AA	897	C	N3-C4-C5	-14.45	116.12	121.90
35	BB	213	A	N1-C6-N6	14.45	127.27	118.60
35	BB	1470	A	N1-C6-N6	14.45	127.27	118.60
35	BB	2294	G	N9-C4-C5	14.44	111.18	105.40
1	AA	1043	G	C5-C6-O6	-14.44	119.94	128.60
1	AA	1096	C	O4'-C1'-N1	14.44	119.75	108.20
35	BB	1309	G	C5-C6-O6	-14.44	119.94	128.60
35	BB	597	G	N7-C8-N9	-14.44	105.88	113.10
35	BB	1737	G	C4-C5-N7	14.43	116.57	110.80
1	AA	1248	A	N1-C6-N6	14.43	127.26	118.60
25	B0	49	ARG	NE-CZ-NH2	14.43	127.52	120.30
35	BB	2088	A	N1-C6-N6	14.43	127.26	118.60
35	BB	2435	A	N1-C6-N6	14.42	127.25	118.60
35	BB	1414	C	O4'-C1'-N1	14.42	119.74	108.20
35	BB	1597	A	N1-C6-N6	14.42	127.25	118.60
35	BB	63	A	N1-C6-N6	14.42	127.25	118.60
35	BB	1067	A	N1-C6-N6	14.42	127.25	118.60
35	BB	2792	A	N1-C6-N6	14.41	127.25	118.60
35	BB	406	G	N1-C6-O6	14.41	128.55	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1290	C	N3-C4-N4	14.41	128.09	118.00
35	BB	2543	G	C5-C6-O6	-14.41	119.95	128.60
1	AA	184	G	C5-C6-O6	-14.41	119.95	128.60
35	BB	1682	G	C5-C6-O6	-14.41	119.96	128.60
35	BB	645	C	N3-C4-C5	-14.40	116.14	121.90
35	BB	2543	G	N1-C6-O6	14.40	128.54	119.90
1	AA	286	C	N3-C4-N4	14.40	128.08	118.00
35	BB	1574	C	N3-C4-C5	-14.40	116.14	121.90
35	BB	1627	G	N1-C6-O6	14.40	128.54	119.90
1	AA	838	G	N1-C6-O6	14.40	128.54	119.90
35	BB	442	G	N1-C6-O6	14.39	128.54	119.90
35	BB	1073	A	N1-C6-N6	14.39	127.24	118.60
1	AA	1447	A	N1-C6-N6	14.39	127.23	118.60
1	AA	1020	G	N1-C6-O6	14.39	128.53	119.90
35	BB	1143	A	C4-C5-C6	14.38	124.19	117.00
35	BB	1144	A	C4-C5-C6	14.38	124.19	117.00
35	BB	2766	A	C4-C5-C6	14.38	124.19	117.00
35	BB	1333	G	C4-C5-C6	14.38	127.43	118.80
35	BB	2095	A	C6-C5-N7	-14.38	122.23	132.30
1	AA	974	A	C4-C5-C6	14.38	124.19	117.00
34	BA	42	C	N3-C4-C5	-14.38	116.15	121.90
1	AA	794	A	C8-N9-C4	-14.37	100.05	105.80
35	BB	1272	A	N1-C6-N6	14.37	127.22	118.60
35	BB	63	A	N9-C4-C5	14.37	111.55	105.80
35	BB	2137	U	O4'-C1'-N1	14.36	119.69	108.20
1	AA	771	G	C5-C6-O6	-14.36	119.98	128.60
35	BB	186	G	N1-C6-O6	14.36	128.51	119.90
35	BB	1215	G	N1-C6-O6	14.35	128.51	119.90
35	BB	1534	U	C2-N3-C4	-14.34	118.39	127.00
1	AA	79	G	C5-C6-O6	-14.34	120.00	128.60
35	BB	1626	A	N1-C6-N6	14.34	127.21	118.60
1	AA	1508	A	O4'-C1'-N9	14.34	119.67	108.20
34	BA	104	A	N1-C6-N6	14.34	127.20	118.60
35	BB	64	A	C4-C5-C6	14.34	124.17	117.00
35	BB	2642	G	N1-C6-O6	14.34	128.50	119.90
35	BB	2162	G	C5-C6-O6	-14.33	120.00	128.60
35	BB	157	C	N3-C4-N4	14.33	128.03	118.00
35	BB	1690	A	N1-C6-N6	14.33	127.20	118.60
35	BB	278	A	N1-C2-N3	-14.33	122.14	129.30
35	BB	80	G	C5-C6-O6	-14.32	120.00	128.60
35	BB	648	G	C5-C6-O6	-14.32	120.00	128.60
35	BB	1744	A	N1-C6-N6	14.32	127.19	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1862	G	C5-C6-O6	-14.32	120.01	128.60
1	AA	676	A	N1-C6-N6	14.32	127.19	118.60
35	BB	1168	G	N1-C6-O6	14.32	128.49	119.90
1	AA	792	A	N1-C6-N6	14.31	127.19	118.60
18	AR	50	TYR	CB-CG-CD1	-14.30	112.42	121.00
35	BB	2627	G	C5-C6-O6	-14.30	120.02	128.60
35	BB	189	G	N3-C2-N2	14.30	129.91	119.90
1	AA	753	A	C5-C6-N6	-14.30	112.26	123.70
1	AA	1184	G	N1-C6-O6	14.29	128.48	119.90
34	BA	110	C	O4'-C1'-N1	14.29	119.63	108.20
35	BB	454	A	N1-C6-N6	14.29	127.18	118.60
35	BB	1977	A	N1-C6-N6	14.29	127.18	118.60
35	BB	71	A	N1-C6-N6	14.29	127.17	118.60
35	BB	1746	A	O4'-C1'-N9	14.29	119.63	108.20
35	BB	2776	A	C5-C6-N1	-14.29	110.56	117.70
35	BB	49	A	N1-C6-N6	14.29	127.17	118.60
1	AA	51	A	N1-C6-N6	14.28	127.17	118.60
35	BB	238	C	O4'-C1'-N1	14.28	119.62	108.20
1	AA	278	G	C5-C6-O6	-14.27	120.04	128.60
35	BB	2884	U	O4'-C1'-N1	14.27	119.62	108.20
1	AA	969	A	N1-C6-N6	14.26	127.16	118.60
35	BB	195	A	N1-C6-N6	14.26	127.16	118.60
35	BB	2538	C	C5-C4-N4	-14.26	110.22	120.20
35	BB	76	C	O4'-C1'-N1	14.26	119.60	108.20
35	BB	1871	A	N1-C6-N6	14.26	127.15	118.60
35	BB	2201	G	C5-C6-O6	-14.26	120.05	128.60
1	AA	668	G	N7-C8-N9	-14.25	105.97	113.10
35	BB	410	G	C5-C6-O6	-14.25	120.05	128.60
35	BB	2600	A	N1-C6-N6	14.25	127.15	118.60
1	AA	32	A	N1-C6-N6	14.25	127.15	118.60
35	BB	818	G	N1-C6-O6	14.24	128.45	119.90
35	BB	2848	G	N1-C6-O6	14.24	128.44	119.90
35	BB	1490	A	N9-C4-C5	14.24	111.50	105.80
1	AA	970	C	N3-C4-C5	-14.23	116.21	121.90
35	BB	2013	A	C2-N3-C4	-14.23	103.48	110.60
1	AA	581	G	C5-C6-O6	-14.23	120.06	128.60
1	AA	629	A	N1-C6-N6	14.22	127.13	118.60
35	BB	2278	A	N1-C6-N6	14.22	127.13	118.60
1	AA	1410	A	N1-C6-N6	14.22	127.13	118.60
1	AA	1453	G	N1-C6-O6	14.21	128.43	119.90
1	AA	490	C	O4'-C1'-N1	14.21	119.57	108.20
35	BB	1723	G	C5-C6-O6	-14.21	120.08	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	82	G	N1-C6-O6	14.20	128.42	119.90
35	BB	1946	U	O4'-C1'-N1	14.20	119.56	108.20
35	BB	190	A	C5-C6-N6	-14.20	112.34	123.70
35	BB	258	G	N1-C6-O6	14.20	128.42	119.90
35	BB	1533	C	C5-C6-N1	14.19	128.10	121.00
35	BB	2267	A	N1-C6-N6	14.19	127.11	118.60
35	BB	717	C	O4'-C1'-N1	14.18	119.55	108.20
35	BB	1084	A	N1-C6-N6	14.18	127.11	118.60
35	BB	1526	C	N3-C4-N4	14.18	127.93	118.00
35	BB	2899	A	C4-C5-C6	14.18	124.09	117.00
1	AA	851	G	C5-C6-O6	-14.18	120.09	128.60
35	BB	1418	G	N1-C6-O6	14.18	128.41	119.90
35	BB	2642	G	C5-C6-O6	-14.18	120.09	128.60
1	AA	486	U	O4'-C1'-N1	14.17	119.54	108.20
1	AA	1328	C	O4'-C1'-N1	14.17	119.54	108.20
1	AA	181	A	C4-C5-C6	14.17	124.09	117.00
35	BB	1967	C	N3-C4-N4	14.17	127.92	118.00
1	AA	368	U	O4'-C1'-N1	14.17	119.54	108.20
1	AA	765	G	C5-C6-O6	-14.17	120.10	128.60
1	AA	1288	A	N1-C6-N6	14.17	127.10	118.60
35	BB	285	G	N1-C6-O6	14.17	128.40	119.90
35	BB	2349	G	N1-C6-O6	14.16	128.40	119.90
1	AA	887	G	N1-C6-O6	14.16	128.40	119.90
1	AA	1044	A	N1-C6-N6	14.16	127.10	118.60
35	BB	136	G	N1-C6-O6	14.16	128.40	119.90
35	BB	2072	C	C6-N1-C2	-14.16	114.64	120.30
35	BB	825	A	N1-C6-N6	14.16	127.09	118.60
35	BB	122	G	N1-C6-O6	14.15	128.39	119.90
35	BB	1660	G	C5-C6-O6	-14.15	120.11	128.60
35	BB	2582	G	N1-C6-O6	14.15	128.39	119.90
35	BB	2227	A	N1-C6-N6	14.15	127.09	118.60
35	BB	175	G	C5-C6-O6	-14.15	120.11	128.60
35	BB	2702	G	N1-C6-O6	14.15	128.39	119.90
1	AA	198	G	C5-C6-O6	-14.14	120.11	128.60
35	BB	1903	G	C5-C6-O6	-14.14	120.11	128.60
35	BB	1678	A	N1-C6-N6	14.14	127.08	118.60
35	BB	602	A	N1-C6-N6	14.14	127.08	118.60
35	BB	2601	C	P-O3'-C3'	14.13	136.66	119.70
1	AA	1398	A	N1-C6-N6	14.13	127.08	118.60
1	AA	1057	G	C5-C6-O6	-14.12	120.13	128.60
1	AA	34	C	O4'-C1'-N1	14.12	119.49	108.20
35	BB	484	C	N3-C4-C5	-14.12	116.25	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	361	G	N1-C6-O6	14.11	128.37	119.90
34	BA	39	A	N1-C6-N6	14.11	127.07	118.60
35	BB	758	C	C6-N1-C2	-14.11	114.66	120.30
35	BB	1467	U	O4'-C1'-N1	14.11	119.49	108.20
35	BB	212	G	C5-C6-O6	-14.11	120.14	128.60
35	BB	748	G	C5-C6-O6	-14.11	120.14	128.60
36	BC	257	ARG	NE-CZ-NH1	14.10	127.35	120.30
1	AA	1310	G	C5-C6-O6	-14.10	120.14	128.60
35	BB	1274	A	N1-C2-N3	-14.09	122.25	129.30
35	BB	818	G	N3-C2-N2	14.09	129.76	119.90
1	AA	214	C	N3-C4-C5	-14.08	116.27	121.90
1	AA	726	C	O4'-C1'-N1	14.08	119.47	108.20
35	BB	1808	A	C8-N9-C4	-14.08	100.17	105.80
1	AA	715	A	N1-C6-N6	14.08	127.05	118.60
35	BB	1231	U	N3-C4-O4	14.08	129.25	119.40
1	AA	346	G	N1-C6-O6	14.07	128.34	119.90
1	AA	493	A	C5-C6-N6	-14.07	112.44	123.70
1	AA	1012	A	C5-C6-N6	-14.07	112.44	123.70
1	AA	1350	A	N1-C6-N6	14.06	127.04	118.60
1	AA	263	A	C5-C6-N1	-14.06	110.67	117.70
35	BB	841	G	N1-C6-O6	14.05	128.33	119.90
35	BB	2119	A	C5-C6-N1	-14.05	110.67	117.70
35	BB	180	G	N1-C6-O6	14.05	128.33	119.90
1	AA	688	G	C5-C6-N1	-14.05	104.47	111.50
35	BB	2487	G	N1-C6-O6	14.05	128.33	119.90
35	BB	1663	G	N1-C6-O6	14.05	128.33	119.90
1	AA	698	G	N1-C6-O6	14.05	128.33	119.90
35	BB	2686	G	C5-C6-O6	-14.05	120.17	128.60
35	BB	695	G	N1-C6-O6	14.04	128.33	119.90
35	BB	10	A	N1-C6-N6	14.04	127.02	118.60
35	BB	1708	C	O4'-C1'-N1	14.04	119.43	108.20
35	BB	1934	C	N3-C4-N4	14.04	127.83	118.00
35	BB	2867	G	N3-C2-N2	14.03	129.72	119.90
1	AA	915	A	N1-C6-N6	14.02	127.01	118.60
1	AA	1491	G	N1-C6-O6	14.02	128.31	119.90
35	BB	1249	U	O4'-C1'-N1	14.02	119.42	108.20
1	AA	766	A	N1-C6-N6	14.02	127.01	118.60
34	BA	79	G	N1-C6-O6	14.01	128.31	119.90
35	BB	572	A	O4'-C1'-N9	14.01	119.41	108.20
1	AA	1398	A	C5-N7-C8	14.01	110.91	103.90
47	BN	94	TYR	CB-CG-CD2	-14.01	112.59	121.00
1	AA	356	A	N1-C6-N6	14.01	127.00	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	258	G	N1-C6-O6	14.00	128.30	119.90
35	BB	1685	C	N3-C4-C5	-14.00	116.30	121.90
35	BB	656	G	N1-C6-O6	14.00	128.30	119.90
1	AA	345	C	N3-C4-C5	-14.00	116.30	121.90
1	AA	868	C	C6-N1-C2	-14.00	114.70	120.30
1	AA	22	G	N1-C6-O6	14.00	128.30	119.90
1	AA	470	C	O4'-C1'-N1	14.00	119.40	108.20
1	AA	524	G	N1-C6-O6	14.00	128.30	119.90
35	BB	19	A	N1-C6-N6	14.00	127.00	118.60
1	AA	532	A	C4-C5-C6	13.99	124.00	117.00
34	BA	118	C	N3-C4-N4	13.99	127.80	118.00
35	BB	1797	G	C2-N3-C4	13.99	118.89	111.90
1	AA	1254	A	N1-C6-N6	13.99	126.99	118.60
1	AA	1233	G	C5-C6-O6	-13.98	120.21	128.60
1	AA	581	G	N1-C6-O6	13.98	128.29	119.90
34	BA	13	G	N1-C6-O6	13.98	128.29	119.90
35	BB	63	A	C4-C5-C6	13.97	123.99	117.00
35	BB	2366	A	C5-C6-N6	-13.97	112.52	123.70
35	BB	520	G	N1-C6-O6	13.97	128.28	119.90
1	AA	529	G	N1-C2-N3	-13.96	115.52	123.90
1	AA	1204	A	N1-C6-N6	13.96	126.98	118.60
35	BB	73	A	N1-C6-N6	13.96	126.98	118.60
35	BB	2550	G	N1-C6-O6	13.95	128.27	119.90
35	BB	1651	G	C5-C6-O6	-13.95	120.23	128.60
1	AA	477	C	O4'-C1'-N1	13.95	119.36	108.20
35	BB	1619	G	C5-C6-O6	-13.94	120.24	128.60
35	BB	1550	C	C6-N1-C2	-13.93	114.73	120.30
35	BB	2631	G	C4-C5-N7	13.93	116.37	110.80
1	AA	168	G	C5-C6-O6	-13.93	120.24	128.60
1	AA	1344	C	O4'-C1'-N1	13.93	119.34	108.20
35	BB	384	A	N1-C6-N6	13.93	126.96	118.60
35	BB	1493	C	N3-C4-C5	-13.92	116.33	121.90
35	BB	1475	G	C5-C6-O6	-13.92	120.25	128.60
1	AA	1359	C	O4'-C1'-N1	13.91	119.33	108.20
35	BB	1994	C	N3-C4-C5	-13.91	116.33	121.90
1	AA	1158	C	O4'-C1'-N1	13.91	119.33	108.20
1	AA	319	G	N1-C6-O6	13.91	128.24	119.90
1	AA	648	A	N1-C6-N6	13.91	126.94	118.60
35	BB	2471	A	C5-C6-N1	-13.90	110.75	117.70
35	BB	751	A	N1-C6-N6	13.90	126.94	118.60
1	AA	1042	A	N1-C6-N6	13.90	126.94	118.60
35	BB	877	A	N9-C4-C5	13.90	111.36	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	726	G	O4'-C1'-N9	13.89	119.31	108.20
1	AA	390	U	O4'-C1'-N1	13.89	119.31	108.20
35	BB	1697	G	C5-C6-O6	-13.89	120.27	128.60
35	BB	236	C	O4'-C1'-N1	13.88	119.31	108.20
1	AA	611	C	N3-C4-C5	-13.88	116.35	121.90
35	BB	1409	U	O4'-C1'-N1	13.88	119.30	108.20
1	AA	1031	C	N3-C4-C5	-13.87	116.35	121.90
35	BB	257	C	O4'-C1'-N1	13.88	119.30	108.20
35	BB	1374	G	C5-C6-O6	-13.88	120.27	128.60
35	BB	890	C	O4'-C1'-N1	13.87	119.30	108.20
1	AA	495	A	C4-C5-C6	13.87	123.93	117.00
35	BB	1055	G	O4'-C1'-N9	13.87	119.30	108.20
1	AA	814	A	P-O3'-C3'	13.87	136.34	119.70
35	BB	2634	A	C4-C5-C6	13.86	123.93	117.00
35	BB	1833	C	N3-C4-N4	13.86	127.70	118.00
29	B4	20	TYR	CB-CG-CD1	-13.86	112.69	121.00
35	BB	272	A	C4-C5-C6	13.85	123.93	117.00
1	AA	418	C	O4'-C1'-N1	13.85	119.28	108.20
1	AA	194	C	O4'-C1'-N1	13.85	119.28	108.20
1	AA	66	A	C5-C6-N1	-13.84	110.78	117.70
35	BB	1684	G	C8-N9-C4	-13.84	100.86	106.40
1	AA	496	A	N1-C6-N6	13.84	126.90	118.60
35	BB	2357	G	N1-C6-O6	13.83	128.20	119.90
35	BB	2630	G	N1-C6-O6	13.83	128.20	119.90
35	BB	2658	C	C5-C4-N4	-13.83	110.52	120.20
35	BB	784	G	N1-C6-O6	13.82	128.19	119.90
35	BB	19	A	N1-C2-N3	13.82	136.21	129.30
1	AA	1060	U	C5-C4-O4	-13.81	117.61	125.90
35	BB	1609	A	C5-C6-N1	-13.81	110.79	117.70
1	AA	1029	U	C5-C6-N1	13.81	129.60	122.70
1	AA	1509	C	C5-C4-N4	-13.81	110.53	120.20
35	BB	2821	A	N1-C6-N6	13.81	126.88	118.60
35	BB	1452	G	C5-C6-O6	-13.80	120.32	128.60
1	AA	415	A	N1-C6-N6	13.80	126.88	118.60
1	AA	59	A	C5-N7-C8	13.80	110.80	103.90
35	BB	61	C	O4'-C1'-N1	13.79	119.24	108.20
35	BB	477	A	C5-C6-N1	-13.79	110.80	117.70
1	AA	285	C	O4'-C1'-N1	13.79	119.23	108.20
1	AA	925	G	C5-C6-O6	-13.79	120.32	128.60
1	AA	1281	C	N3-C4-C5	-13.79	116.38	121.90
35	BB	157	C	C5-C4-N4	-13.79	110.55	120.20
35	BB	1989	G	N1-C6-O6	13.78	128.17	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1139	G	N1-C6-O6	13.78	128.17	119.90
35	BB	2516	A	C5-C6-N1	-13.78	110.81	117.70
1	AA	753	A	C5-C6-N1	-13.78	110.81	117.70
35	BB	1238	G	C5-C6-O6	-13.78	120.33	128.60
1	AA	422	C	C6-N1-C2	-13.77	114.79	120.30
35	BB	1250	G	N1-C6-O6	13.77	128.16	119.90
35	BB	924	G	O4'-C1'-N9	13.76	119.21	108.20
1	AA	174	A	C2-N3-C4	-13.76	103.72	110.60
35	BB	742	A	N1-C6-N6	13.76	126.86	118.60
1	AA	1303	C	N3-C4-C5	-13.76	116.40	121.90
35	BB	558	U	O4'-C1'-N1	13.75	119.20	108.20
1	AA	371	A	C5-N7-C8	13.73	110.77	103.90
1	AA	635	A	O4'-C1'-N9	13.73	119.18	108.20
1	AA	661	G	C5-C6-O6	-13.73	120.36	128.60
23	AX	19	A	N1-C6-N6	13.73	126.84	118.60
35	BB	2331	G	N1-C6-O6	13.73	128.14	119.90
35	BB	275	C	O4'-C1'-N1	13.73	119.18	108.20
35	BB	2413	G	N1-C6-O6	13.73	128.14	119.90
1	AA	136	C	C6-N1-C2	-13.73	114.81	120.30
35	BB	508	A	C4-C5-C6	13.72	123.86	117.00
1	AA	774	G	C2-N3-C4	13.72	118.76	111.90
35	BB	1175	A	C5-C6-N1	-13.72	110.84	117.70
35	BB	1563	U	O4'-C1'-N1	13.72	119.17	108.20
35	BB	1751	U	O4'-C1'-N1	13.72	119.17	108.20
35	BB	2851	A	N1-C6-N6	13.71	126.83	118.60
1	AA	218	U	O4'-C1'-N1	13.71	119.17	108.20
1	AA	1370	G	C5-C6-O6	-13.71	120.38	128.60
35	BB	2134	A	C5-C6-N6	-13.71	112.73	123.70
1	AA	810	C	O4'-C1'-N1	13.70	119.16	108.20
35	BB	1269	A	N1-C6-N6	13.70	126.82	118.60
35	BB	2270	A	N1-C6-N6	13.70	126.82	118.60
35	BB	1916	A	N1-C6-N6	13.69	126.82	118.60
1	AA	366	A	N9-C4-C5	13.69	111.28	105.80
35	BB	579	G	N1-C6-O6	13.68	128.11	119.90
1	AA	968	A	C5-C6-N1	-13.68	110.86	117.70
35	BB	1579	A	N1-C6-N6	13.68	126.81	118.60
1	AA	241	G	N1-C6-O6	13.68	128.11	119.90
35	BB	2061	G	N1-C6-O6	13.68	128.10	119.90
1	AA	363	A	N1-C6-N6	13.67	126.80	118.60
22	AV	2	G	N1-C6-O6	13.66	128.10	119.90
35	BB	659	G	C5-C6-O6	-13.66	120.40	128.60
35	BB	711	G	N3-C2-N2	13.66	129.46	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2003	A	C5-C6-N6	-13.66	112.77	123.70
35	BB	2402	U	O4'-C1'-N1	13.66	119.13	108.20
1	AA	1219	A	C5-C6-N6	-13.66	112.78	123.70
1	AA	1152	A	N1-C6-N6	13.65	126.79	118.60
35	BB	2363	G	C5-C6-O6	-13.65	120.41	128.60
1	AA	1534	A	C4-C5-C6	13.65	123.83	117.00
1	AA	1179	A	C4-C5-C6	13.65	123.83	117.00
35	BB	1248	G	C5-C6-O6	-13.65	120.41	128.60
35	BB	2464	G	O4'-C1'-N9	13.65	119.12	108.20
1	AA	1292	G	O4'-C1'-N9	13.65	119.12	108.20
35	BB	1262	A	N1-C6-N6	13.65	126.79	118.60
1	AA	6	G	C5-C6-O6	-13.64	120.41	128.60
34	BA	79	G	C5-C6-O6	-13.64	120.42	128.60
35	BB	1281	G	N1-C6-O6	13.64	128.09	119.90
35	BB	1720	U	O4'-C1'-N1	13.64	119.11	108.20
1	AA	184	G	N1-C6-O6	13.64	128.08	119.90
1	AA	235	C	C6-N1-C2	-13.64	114.84	120.30
35	BB	700	G	N1-C6-O6	13.64	128.08	119.90
35	BB	1933	G	C5-C6-O6	-13.64	120.42	128.60
35	BB	1371	G	O4'-C1'-N9	13.63	119.11	108.20
35	BB	1616	A	C5-C6-N6	-13.63	112.80	123.70
35	BB	605	G	C8-N9-C4	13.63	111.85	106.40
37	BD	83	ARG	NE-CZ-NH1	-13.62	113.49	120.30
35	BB	752	A	C4-C5-C6	13.62	123.81	117.00
35	BB	1569	A	C4-C5-C6	13.62	123.81	117.00
35	BB	1920	C	N3-C4-N4	13.62	127.54	118.00
35	BB	2415	G	N1-C6-O6	13.62	128.07	119.90
35	BB	300	A	C4-C5-C6	13.62	123.81	117.00
35	BB	2400	G	N1-C6-O6	13.62	128.07	119.90
35	BB	946	C	O4'-C1'-N1	13.62	119.09	108.20
35	BB	1088	A	N1-C6-N6	13.62	126.77	118.60
35	BB	638	G	C5-C6-O6	-13.61	120.43	128.60
35	BB	1960	A	N1-C6-N6	13.62	126.77	118.60
35	BB	2808	G	N1-C2-N3	-13.61	115.73	123.90
35	BB	2084	C	N3-C4-N4	13.60	127.52	118.00
22	AV	3	G	C6-C5-N7	-13.60	122.24	130.40
35	BB	670	A	N1-C6-N6	13.59	126.76	118.60
35	BB	2222	C	O4'-C1'-N1	13.59	119.08	108.20
1	AA	1124	G	N1-C6-O6	13.59	128.05	119.90
35	BB	1143	A	N1-C6-N6	13.59	126.75	118.60
1	AA	869	G	C5-C6-O6	-13.59	120.45	128.60
35	BB	1749	A	N1-C2-N3	13.59	136.09	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2168	G	N1-C6-O6	13.59	128.05	119.90
1	AA	451	A	C4-C5-C6	13.58	123.79	117.00
1	AA	1475	G	N1-C6-O6	13.58	128.05	119.90
1	AA	927	G	N1-C6-O6	13.58	128.05	119.90
1	AA	1443	C	O4'-C1'-N1	13.58	119.06	108.20
1	AA	82	G	C5-C6-O6	-13.58	120.45	128.60
35	BB	809	G	C5-C6-O6	-13.57	120.46	128.60
35	BB	2156	G	C5-C6-O6	-13.57	120.46	128.60
1	AA	174	A	C5-C6-N1	-13.57	110.92	117.70
1	AA	554	A	N1-C6-N6	13.57	126.74	118.60
1	AA	1094	G	C5-C6-O6	-13.57	120.46	128.60
35	BB	2655	G	C5-C6-O6	-13.57	120.46	128.60
1	AA	495	A	N1-C6-N6	13.56	126.74	118.60
35	BB	446	G	N3-C2-N2	13.56	129.39	119.90
35	BB	921	C	C5-C6-N1	13.55	127.78	121.00
35	BB	2776	A	N1-C6-N6	13.55	126.73	118.60
35	BB	89	A	N1-C6-N6	13.55	126.73	118.60
35	BB	597	G	N9-C4-C5	13.55	110.82	105.40
35	BB	1014	A	C5-C6-N6	-13.55	112.86	123.70
35	BB	2006	C	C2-N3-C4	13.55	126.68	119.90
1	AA	1051	C	N3-C4-N4	13.55	127.48	118.00
1	AA	1333	A	N1-C6-N6	13.55	126.73	118.60
1	AA	355	C	N3-C4-N4	13.55	127.48	118.00
35	BB	1055	G	C5-C6-O6	-13.54	120.47	128.60
1	AA	1434	A	N1-C6-N6	13.54	126.72	118.60
35	BB	1445	G	N1-C6-O6	13.54	128.02	119.90
35	BB	2037	A	C5-C6-N1	-13.53	110.94	117.70
35	BB	574	A	N1-C6-N6	13.52	126.72	118.60
35	BB	2524	G	C8-N9-C4	-13.52	100.99	106.40
1	AA	1157	A	N1-C6-N6	13.52	126.71	118.60
1	AA	1111	A	C5-C6-N6	-13.52	112.89	123.70
35	BB	1250	G	C5-C6-O6	-13.51	120.50	128.60
1	AA	1031	C	N3-C4-N4	13.51	127.45	118.00
35	BB	1334	G	O4'-C1'-N9	13.50	119.00	108.20
35	BB	368	A	O4'-C1'-N9	13.50	119.00	108.20
35	BB	2027	G	C5-C6-O6	-13.50	120.50	128.60
35	BB	318	C	O4'-C1'-N1	13.49	119.00	108.20
35	BB	2475	C	N3-C4-C5	-13.49	116.50	121.90
1	AA	274	A	N1-C6-N6	13.49	126.69	118.60
35	BB	456	C	N3-C4-C5	-13.49	116.50	121.90
35	BB	2084	C	C5-C4-N4	-13.49	110.76	120.20
35	BB	1679	A	N1-C6-N6	13.48	126.69	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	574	A	N1-C6-N6	13.48	126.69	118.60
1	AA	1251	A	C5-C6-N1	-13.48	110.96	117.70
35	BB	2256	G	C5-C6-O6	-13.48	120.51	128.60
35	BB	1762	A	N1-C6-N6	13.48	126.69	118.60
1	AA	808	C	N3-C4-C5	-13.47	116.51	121.90
1	AA	355	C	C2-N3-C4	13.47	126.64	119.90
35	BB	1370	C	N3-C4-C5	-13.47	116.51	121.90
35	BB	2049	G	N1-C6-O6	13.47	127.98	119.90
35	BB	2634	A	N1-C6-N6	13.47	126.68	118.60
35	BB	1021	A	N1-C6-N6	13.47	126.68	118.60
35	BB	1962	C	N3-C4-C5	-13.47	116.51	121.90
35	BB	1327	A	N1-C6-N6	13.47	126.68	118.60
35	BB	2685	G	C5-C6-O6	-13.46	120.52	128.60
1	AA	278	G	N3-C2-N2	13.46	129.32	119.90
1	AA	987	G	N1-C6-O6	13.46	127.98	119.90
34	BA	98	G	N1-C6-O6	13.46	127.97	119.90
35	BB	900	A	P-O3'-C3'	-13.46	103.55	119.70
35	BB	1766	G	C5-C6-O6	-13.46	120.52	128.60
35	BB	420	C	N3-C4-C5	-13.45	116.52	121.90
35	BB	2101	A	N1-C6-N6	13.45	126.67	118.60
1	AA	129	A	C8-N9-C4	-13.45	100.42	105.80
35	BB	494	G	N1-C6-O6	13.45	127.97	119.90
1	AA	469	C	O4'-C1'-N1	13.44	118.95	108.20
35	BB	1821	A	N1-C6-N6	13.44	126.66	118.60
35	BB	2371	G	N1-C6-O6	13.44	127.96	119.90
35	BB	1936	A	C5-C6-N1	-13.43	110.98	117.70
1	AA	1466	C	O4'-C1'-N1	13.43	118.95	108.20
35	BB	2178	C	O4'-C1'-N1	13.43	118.94	108.20
35	BB	1984	G	C5-C6-O6	-13.43	120.54	128.60
1	AA	943	U	C5-C6-N1	13.43	129.41	122.70
35	BB	1230	A	C4-C5-C6	13.43	123.71	117.00
1	AA	781	A	C4-C5-C6	13.42	123.71	117.00
35	BB	2481	G	C5-C6-O6	-13.42	120.55	128.60
35	BB	458	G	C6-C5-N7	-13.42	122.35	130.40
35	BB	1750	G	O4'-C1'-N9	13.42	118.93	108.20
35	BB	1320	C	C6-N1-C2	-13.41	114.94	120.30
1	AA	1191	A	C4-C5-C6	13.41	123.70	117.00
35	BB	1718	G	N1-C6-O6	13.41	127.94	119.90
35	BB	1824	G	C2-N3-C4	13.41	118.61	111.90
1	AA	1417	G	C5-C6-O6	-13.41	120.56	128.60
1	AA	628	G	N1-C6-O6	13.40	127.94	119.90
35	BB	2797	U	O4'-C1'-N1	13.40	118.92	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	BO	7	ARG	NE-CZ-NH2	-13.40	113.60	120.30
34	BA	53	A	N1-C6-N6	13.39	126.64	118.60
35	BB	215	G	N1-C6-O6	13.39	127.94	119.90
35	BB	1422	G	N1-C6-O6	13.39	127.93	119.90
35	BB	2719	G	N1-C6-O6	13.39	127.93	119.90
1	AA	1169	A	N1-C6-N6	13.38	126.63	118.60
35	BB	2058	A	C8-N9-C4	-13.38	100.45	105.80
1	AA	31	G	C5-C6-O6	-13.38	120.57	128.60
35	BB	351	C	N3-C4-C5	-13.38	116.55	121.90
35	BB	2742	G	N1-C6-O6	13.38	127.93	119.90
1	AA	775	G	O4'-C1'-N9	13.37	118.89	108.20
34	BA	9	G	C5-C6-O6	-13.37	120.58	128.60
35	BB	2200	C	O4'-C1'-N1	13.36	118.89	108.20
35	BB	2328	A	N1-C6-N6	13.36	126.62	118.60
35	BB	173	A	N1-C6-N6	13.36	126.61	118.60
1	AA	731	G	N1-C6-O6	13.35	127.91	119.90
35	BB	2421	G	C5-C6-N1	-13.35	104.82	111.50
1	AA	818	G	C5-C6-O6	-13.35	120.59	128.60
35	BB	1134	A	C4-C5-C6	13.35	123.67	117.00
1	AA	823	C	O4'-C1'-N1	13.34	118.87	108.20
1	AA	1480	A	C4-C5-N7	-13.34	104.03	110.70
35	BB	218	A	N1-C6-N6	13.34	126.61	118.60
35	BB	441	U	O4'-C1'-N1	13.34	118.87	108.20
35	BB	1975	G	C4-C5-N7	13.34	116.14	110.80
1	AA	128	G	C5-C6-O6	-13.34	120.60	128.60
1	AA	142	G	C8-N9-C4	-13.34	101.07	106.40
35	BB	2069	G	N1-C6-O6	13.34	127.90	119.90
35	BB	2392	A	N1-C6-N6	13.34	126.60	118.60
35	BB	473	G	C2-N3-C4	-13.33	105.23	111.90
35	BB	820	A	N1-C6-N6	13.33	126.60	118.60
35	BB	1633	G	N1-C6-O6	13.33	127.90	119.90
1	AA	1268	G	N1-C6-O6	13.33	127.90	119.90
35	BB	764	A	C5-C6-N1	-13.33	111.03	117.70
1	AA	519	C	O4'-C1'-N1	13.33	118.86	108.20
1	AA	584	G	N1-C6-O6	13.33	127.90	119.90
35	BB	309	A	N9-C4-C5	13.33	111.13	105.80
35	BB	2407	A	C5-C6-N1	-13.33	111.04	117.70
1	AA	371	A	N7-C8-N9	-13.32	107.14	113.80
35	BB	1095	A	N1-C6-N6	13.32	126.59	118.60
1	AA	1385	G	N1-C6-O6	13.32	127.89	119.90
35	BB	1207	C	O4'-C1'-N1	13.32	118.85	108.20
35	BB	2830	C	N3-C4-C5	-13.32	116.57	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1882	U	N3-C4-O4	13.31	128.72	119.40
35	BB	1257	C	O4'-C1'-N1	13.31	118.85	108.20
1	AA	628	G	O4'-C1'-N9	13.31	118.85	108.20
1	AA	1353	G	N1-C2-N3	-13.31	115.92	123.90
1	AA	542	G	O4'-C1'-N9	13.30	118.84	108.20
35	BB	1090	A	N1-C6-N6	13.30	126.58	118.60
1	AA	1004	A	N1-C6-N6	13.30	126.58	118.60
35	BB	2015	A	N9-C4-C5	13.30	111.12	105.80
35	BB	2760	C	N3-C4-C5	-13.30	116.58	121.90
34	BA	19	C	N3-C4-C5	-13.30	116.58	121.90
35	BB	477	A	C5-N7-C8	13.30	110.55	103.90
22	AV	4	C	N3-C4-N4	13.29	127.31	118.00
35	BB	2095	A	N1-C6-N6	13.29	126.58	118.60
35	BB	662	G	N1-C6-O6	13.29	127.87	119.90
35	BB	1968	G	N1-C6-O6	13.29	127.87	119.90
1	AA	507	C	N3-C4-N4	13.29	127.30	118.00
35	BB	2281	A	N1-C6-N6	13.28	126.57	118.60
35	BB	2602	A	C4-C5-C6	13.28	123.64	117.00
54	BU	84	PHE	CB-CG-CD2	-13.28	111.50	120.80
1	AA	673	A	C5-C6-N6	-13.28	113.08	123.70
1	AA	1210	C	N3-C4-C5	-13.28	116.59	121.90
35	BB	844	A	C5-C6-N1	-13.28	111.06	117.70
35	BB	1654	A	N1-C6-N6	13.28	126.56	118.60
35	BB	2084	C	O4'-C1'-N1	13.28	118.82	108.20
35	BB	760	G	C5-C6-O6	-13.27	120.64	128.60
1	AA	914	A	N1-C6-N6	13.27	126.56	118.60
35	BB	753	A	N1-C6-N6	13.27	126.56	118.60
1	AA	106	C	O4'-C1'-N1	13.26	118.81	108.20
35	BB	478	A	N1-C6-N6	13.26	126.56	118.60
35	BB	480	A	C5-C6-N6	-13.26	113.09	123.70
44	BK	49	ARG	NE-CZ-NH2	-13.25	113.67	120.30
1	AA	364	A	C5-C6-N1	-13.25	111.07	117.70
1	AA	575	G	N1-C6-O6	13.25	127.85	119.90
31	B6	19	ARG	NE-CZ-NH2	13.25	126.93	120.30
35	BB	1020	A	C2-N3-C4	-13.25	103.97	110.60
35	BB	2829	A	N1-C6-N6	13.25	126.55	118.60
35	BB	2095	A	C5-C6-N1	-13.25	111.07	117.70
35	BB	2536	G	C5-C6-O6	-13.25	120.65	128.60
1	AA	171	A	N1-C6-N6	13.24	126.55	118.60
1	AA	909	A	C4-C5-C6	13.24	123.62	117.00
35	BB	104	A	N7-C8-N9	-13.24	107.18	113.80
34	BA	78	A	N1-C6-N6	13.24	126.54	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	201	G	C5-C6-O6	-13.24	120.66	128.60
35	BB	250	G	C8-N9-C4	13.24	111.69	106.40
35	BB	1054	A	C4-C5-C6	13.24	123.62	117.00
1	AA	728	A	C4-C5-C6	13.23	123.61	117.00
1	AA	355	C	N3-C4-C5	-13.23	116.61	121.90
35	BB	1806	C	N3-C4-C5	-13.23	116.61	121.90
1	AA	600	A	N1-C6-N6	13.22	126.53	118.60
35	BB	2043	C	N3-C4-C5	-13.22	116.61	121.90
35	BB	651	G	O4'-C1'-N9	13.22	118.77	108.20
1	AA	27	G	O4'-C1'-N9	13.21	118.77	108.20
35	BB	878	A	N1-C6-N6	13.21	126.53	118.60
1	AA	606	G	N1-C6-O6	13.21	127.83	119.90
34	BA	15	A	C4-C5-C6	13.21	123.61	117.00
35	BB	398	C	O4'-C1'-N1	13.21	118.77	108.20
35	BB	1637	A	N7-C8-N9	-13.21	107.19	113.80
35	BB	1536	C	C6-N1-C2	-13.21	115.02	120.30
35	BB	2011	U	O4'-C1'-N1	13.21	118.77	108.20
1	AA	404	G	O4'-C1'-N9	13.21	118.77	108.20
35	BB	2350	C	N3-C4-C5	-13.21	116.62	121.90
35	BB	1212	G	N1-C6-O6	13.20	127.82	119.90
35	BB	346	A	N1-C6-N6	13.20	126.52	118.60
35	BB	497	A	N1-C6-N6	13.20	126.52	118.60
1	AA	128	G	N1-C6-O6	13.20	127.82	119.90
35	BB	1956	U	O4'-C1'-N1	13.20	118.76	108.20
35	BB	2549	G	O4'-C1'-N9	13.20	118.76	108.20
35	BB	2618	G	N1-C6-O6	13.20	127.82	119.90
45	BL	126	ARG	NE-CZ-NH1	13.19	126.90	120.30
1	AA	325	A	C5-C6-N1	-13.19	111.11	117.70
35	BB	622	G	C5-C6-O6	-13.19	120.69	128.60
35	BB	127	A	C6-N1-C2	-13.18	110.69	118.60
35	BB	795	C	C6-N1-C2	-13.18	115.03	120.30
35	BB	989	G	C5-C6-O6	-13.18	120.69	128.60
1	AA	1207	G	C5-C6-O6	-13.18	120.69	128.60
35	BB	2582	G	C5-C6-O6	-13.18	120.69	128.60
1	AA	1163	A	O4'-C1'-N9	13.17	118.74	108.20
35	BB	2215	C	O4'-C1'-N1	13.17	118.74	108.20
35	BB	415	A	N1-C6-N6	13.17	126.50	118.60
35	BB	671	C	C5-C6-N1	13.17	127.59	121.00
35	BB	503	A	C4-C5-C6	13.16	123.58	117.00
35	BB	855	G	N9-C4-C5	-13.16	100.13	105.40
35	BB	1448	G	C5-C6-O6	-13.16	120.70	128.60
34	BA	68	C	O4'-C1'-N1	13.15	118.72	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	49	C	C5-C6-N1	13.15	127.57	121.00
1	AA	1278	G	C5-C6-O6	-13.14	120.72	128.60
35	BB	309	A	N1-C6-N6	13.14	126.48	118.60
1	AA	1444	U	O4'-C1'-N1	13.14	118.71	108.20
35	BB	1631	G	N1-C6-O6	13.14	127.78	119.90
35	BB	1672	A	C4-C5-C6	13.13	123.56	117.00
35	BB	1651	G	N1-C6-O6	13.12	127.77	119.90
35	BB	866	A	N1-C6-N6	13.12	126.47	118.60
1	AA	728	A	C5-C6-N1	-13.11	111.14	117.70
35	BB	2361	G	C5-C6-O6	-13.11	120.73	128.60
18	AR	56	ARG	NE-CZ-NH1	13.11	126.86	120.30
22	AV	70	C	O4'-C1'-N1	13.11	118.69	108.20
35	BB	374	A	N1-C6-N6	13.11	126.47	118.60
35	BB	1590	A	C5-C6-N6	-13.11	113.21	123.70
35	BB	2814	A	N1-C6-N6	13.11	126.47	118.60
35	BB	2759	G	N1-C6-O6	13.11	127.77	119.90
1	AA	143	A	O4'-C1'-N9	13.11	118.69	108.20
1	AA	376	G	C5-C6-O6	-13.11	120.74	128.60
35	BB	2543	G	N3-C2-N2	13.10	129.07	119.90
1	AA	1015	G	N1-C6-O6	13.10	127.76	119.90
22	AV	67	G	N1-C6-O6	13.10	127.76	119.90
35	BB	502	A	N1-C6-N6	13.09	126.45	118.60
34	BA	46	A	N9-C4-C5	-13.09	100.56	105.80
35	BB	1478	G	N1-C6-O6	13.09	127.75	119.90
1	AA	777	A	C2-N3-C4	-13.09	104.06	110.60
35	BB	978	G	C5-C6-O6	-13.09	120.75	128.60
50	BQ	27	ARG	NE-CZ-NH2	-13.09	113.76	120.30
35	BB	147	C	N3-C4-C5	-13.08	116.67	121.90
35	BB	900	A	N1-C6-N6	13.08	126.45	118.60
35	BB	1168	G	N3-C2-N2	13.08	129.06	119.90
35	BB	1831	G	O4'-C1'-N9	13.08	118.67	108.20
1	AA	352	C	C2-N3-C4	13.08	126.44	119.90
1	AA	547	A	N1-C6-N6	13.08	126.45	118.60
35	BB	2877	G	C5-C6-O6	-13.08	120.75	128.60
35	BB	172	A	O4'-C1'-N9	13.08	118.66	108.20
35	BB	1501	G	C5-C6-O6	-13.08	120.75	128.60
35	BB	2870	C	N3-C4-N4	13.08	127.16	118.00
35	BB	1195	G	C5-C6-O6	-13.07	120.75	128.60
35	BB	2315	G	O4'-C1'-N9	13.07	118.66	108.20
1	AA	25	C	O4'-C1'-N1	13.07	118.66	108.20
35	BB	1517	G	N1-C6-O6	-13.07	112.06	119.90
35	BB	1009	A	N1-C6-N6	13.07	126.44	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	174	A	N1-C2-N3	13.07	135.83	129.30
35	BB	2740	A	N1-C6-N6	13.07	126.44	118.60
35	BB	2842	G	N1-C6-O6	13.07	127.74	119.90
1	AA	86	G	N1-C6-O6	13.06	127.73	119.90
35	BB	2054	A	N1-C6-N6	13.06	126.44	118.60
1	AA	1110	A	C4-C5-C6	13.06	123.53	117.00
1	AA	857	C	O4'-C1'-N1	13.06	118.64	108.20
1	AA	761	G	N1-C6-O6	13.05	127.73	119.90
35	BB	2090	A	N1-C6-N6	13.05	126.43	118.60
35	BB	2032	G	C5-C6-O6	-13.05	120.77	128.60
1	AA	986	U	O4'-C1'-N1	13.04	118.64	108.20
39	BF	21	TYR	CB-CG-CD2	13.04	128.83	121.00
35	BB	1541	C	O4'-C1'-N1	13.04	118.63	108.20
1	AA	847	G	N9-C4-C5	-13.04	100.18	105.40
35	BB	533	G	N3-C2-N2	13.04	129.03	119.90
35	BB	702	U	O4'-C1'-N1	13.04	118.63	108.20
35	BB	2503	A	N1-C6-N6	13.04	126.42	118.60
35	BB	1804	C	C6-N1-C2	-13.03	115.09	120.30
35	BB	2214	C	N3-C4-N4	13.03	127.12	118.00
35	BB	897	C	O4'-C1'-N1	13.03	118.63	108.20
35	BB	1322	A	C5-C6-N1	-13.03	111.18	117.70
1	AA	880	C	C6-N1-C2	-13.03	115.09	120.30
35	BB	442	G	C5-C6-O6	-13.03	120.78	128.60
1	AA	503	C	O4'-C1'-N1	13.02	118.62	108.20
35	BB	877	A	C8-N9-C4	-13.02	100.59	105.80
35	BB	771	G	C5-C6-O6	-13.02	120.79	128.60
35	BB	507	A	N1-C6-N6	13.02	126.41	118.60
35	BB	1901	A	C8-N9-C4	-13.02	100.59	105.80
35	BB	175	G	N1-C6-O6	13.01	127.71	119.90
1	AA	120	A	N1-C6-N6	13.01	126.41	118.60
1	AA	839	C	C5-C4-N4	-13.01	111.09	120.20
35	BB	659	G	N1-C6-O6	13.01	127.71	119.90
35	BB	1509	A	N1-C6-N6	13.01	126.40	118.60
35	BB	2414	G	C5-C6-O6	-13.00	120.80	128.60
35	BB	2439	A	N1-C6-N6	13.00	126.40	118.60
35	BB	1160	G	N1-C6-O6	13.00	127.70	119.90
35	BB	670	A	C5-C6-N1	-12.99	111.20	117.70
35	BB	1534	U	N1-C2-N3	12.99	122.70	114.90
35	BB	66	C	N3-C4-C5	-12.99	116.70	121.90
35	BB	2820	A	C4-C5-C6	12.99	123.50	117.00
35	BB	971	G	O4'-C1'-N9	12.99	118.59	108.20
35	BB	841	G	C5-C6-O6	-12.99	120.81	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	829	G	C5-C6-O6	-12.98	120.81	128.60
1	AA	833	G	C5-C6-O6	-12.98	120.81	128.60
1	AA	1516	G	N1-C6-O6	12.98	127.69	119.90
35	BB	559	G	C5-C6-O6	-12.98	120.81	128.60
35	BB	660	C	C5-C6-N1	12.98	127.49	121.00
35	BB	733	G	C5-C6-O6	-12.98	120.81	128.60
35	BB	1112	G	C5-C6-O6	-12.98	120.81	128.60
35	BB	1791	A	C5-C6-N6	-12.98	113.31	123.70
35	BB	1987	A	O4'-C1'-N9	12.98	118.58	108.20
40	BG	2	ARG	NE-CZ-NH2	12.98	126.79	120.30
35	BB	48	G	C5-C6-O6	-12.98	120.81	128.60
35	BB	520	G	C5-C6-O6	-12.97	120.81	128.60
35	BB	1973	G	N3-C2-N2	12.97	128.98	119.90
35	BB	1662	U	O4'-C1'-N1	12.97	118.58	108.20
35	BB	1854	A	N1-C6-N6	12.97	126.38	118.60
35	BB	1646	C	O4'-C1'-N1	12.97	118.58	108.20
35	BB	2764	A	C5-C6-N1	-12.97	111.22	117.70
35	BB	1116	G	C5-C6-O6	-12.97	120.82	128.60
35	BB	1502	A	N1-C6-N6	12.96	126.38	118.60
1	AA	577	G	C5-C6-O6	-12.96	120.82	128.60
35	BB	1510	G	C5-C6-O6	-12.96	120.83	128.60
35	BB	368	A	N1-C6-N6	12.96	126.37	118.60
35	BB	1392	A	N1-C6-N6	12.96	126.37	118.60
35	BB	2520	C	N3-C4-C5	-12.96	116.72	121.90
35	BB	283	G	N1-C6-O6	12.95	127.67	119.90
35	BB	2885	G	C5-C6-O6	-12.95	120.83	128.60
35	BB	265	A	N1-C6-N6	12.95	126.37	118.60
35	BB	2348	U	O4'-C1'-N1	12.95	118.56	108.20
35	BB	1126	A	N1-C2-N3	-12.95	122.83	129.30
35	BB	1051	G	C5-C6-O6	-12.94	120.84	128.60
35	BB	1482	G	C4-C5-C6	12.94	126.56	118.80
1	AA	927	G	O4'-C1'-N9	12.94	118.55	108.20
35	BB	1808	A	N1-C6-N6	12.93	126.36	118.60
1	AA	311	C	O4'-C1'-N1	12.93	118.55	108.20
1	AA	1427	C	C4-C5-C6	12.93	123.86	117.40
35	BB	1592	C	O4'-C1'-N1	12.93	118.54	108.20
35	BB	2061	G	N3-C2-N2	12.93	128.95	119.90
35	BB	961	C	O4'-C1'-N1	12.92	118.54	108.20
35	BB	2550	G	C6-C5-N7	-12.91	122.65	130.40
35	BB	656	G	C5-C6-N1	-12.91	105.04	111.50
8	AH	83	ARG	NE-CZ-NH2	-12.91	113.84	120.30
35	BB	592	A	N1-C2-N3	12.91	135.75	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	903	G	C5-C6-O6	-12.91	120.86	128.60
35	BB	115	C	O4'-C1'-N1	12.91	118.53	108.20
35	BB	727	A	N1-C2-N3	12.90	135.75	129.30
35	BB	909	A	N1-C6-N6	12.90	126.34	118.60
35	BB	2289	G	C5-C6-O6	-12.90	120.86	128.60
1	AA	223	A	N1-C6-N6	12.90	126.34	118.60
35	BB	1390	U	O4'-C1'-N1	12.90	118.52	108.20
35	BB	1757	A	O4'-C1'-N9	12.90	118.52	108.20
34	BA	98	G	C5-C6-O6	-12.90	120.86	128.60
35	BB	737	C	O4'-C1'-N1	12.90	118.52	108.20
35	BB	164	C	N3-C4-C5	-12.89	116.74	121.90
35	BB	583	G	N1-C6-O6	12.89	127.64	119.90
35	BB	2433	A	N1-C6-N6	12.89	126.34	118.60
35	BB	131	A	O4'-C1'-N9	12.89	118.51	108.20
35	BB	2232	C	C5-C4-N4	-12.89	111.18	120.20
35	BB	2843	G	N1-C6-O6	12.89	127.64	119.90
1	AA	990	C	N3-C4-C5	-12.89	116.75	121.90
35	BB	6	A	C4-C5-C6	12.89	123.44	117.00
35	BB	2286	G	N1-C6-O6	12.89	127.63	119.90
35	BB	2365	G	N1-C6-O6	12.88	127.63	119.90
1	AA	289	G	C5-C6-N1	12.88	117.94	111.50
35	BB	666	A	C5-C6-N6	-12.88	113.39	123.70
35	BB	106	C	O4'-C1'-N1	12.88	118.50	108.20
35	BB	1504	A	C5-C6-N6	-12.88	113.39	123.70
35	BB	1696	G	C5-C6-O6	-12.88	120.87	128.60
1	AA	819	A	N1-C6-N6	12.88	126.33	118.60
35	BB	1627	G	C5-C6-O6	-12.88	120.87	128.60
35	BB	1909	C	O4'-C1'-N1	12.87	118.50	108.20
1	AA	544	G	C5-C6-O6	-12.87	120.88	128.60
36	BC	61	TYR	CB-CG-CD2	-12.87	113.28	121.00
35	BB	1515	A	C4-C5-C6	12.87	123.43	117.00
35	BB	2103	C	O4'-C1'-N1	12.86	118.49	108.20
1	AA	1192	C	N3-C4-C5	-12.85	116.76	121.90
35	BB	1478	G	C4-C5-N7	-12.85	105.66	110.80
1	AA	542	G	N1-C6-O6	12.85	127.61	119.90
35	BB	2095	A	C4-C5-C6	12.85	123.42	117.00
35	BB	1810	A	O4'-C1'-N9	12.85	118.48	108.20
35	BB	332	A	C5-C6-N6	-12.84	113.43	123.70
35	BB	1270	C	O4'-C1'-N1	12.84	118.47	108.20
35	BB	1514	G	N1-C6-O6	12.84	127.60	119.90
1	AA	222	C	N3-C4-C5	-12.83	116.77	121.90
47	BN	8	ARG	NE-CZ-NH2	-12.83	113.88	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	496	A	C5-C6-N1	-12.83	111.29	117.70
1	AA	308	C	N3-C4-C5	-12.82	116.77	121.90
1	AA	16	A	C4-C5-C6	12.82	123.41	117.00
35	BB	44	A	N1-C6-N6	12.82	126.29	118.60
35	BB	1195	G	N1-C6-O6	12.82	127.59	119.90
1	AA	666	G	N1-C6-O6	12.82	127.59	119.90
35	BB	99	U	O4'-C1'-N1	12.82	118.46	108.20
1	AA	46	G	O4'-C1'-N9	12.82	118.45	108.20
1	AA	207	C	O4'-C1'-N1	12.82	118.45	108.20
35	BB	933	A	P-O3'-C3'	12.81	135.08	119.70
1	AA	1314	C	N3-C4-N4	12.81	126.97	118.00
35	BB	832	U	O4'-C1'-N1	12.81	118.45	108.20
35	BB	1050	A	C5-C6-N1	-12.81	111.29	117.70
35	BB	2838	G	C5-C6-O6	-12.81	120.91	128.60
1	AA	1405	G	N1-C6-O6	12.80	127.58	119.90
35	BB	858	G	N1-C6-O6	12.80	127.58	119.90
35	BB	2432	A	C5-N7-C8	12.80	110.30	103.90
35	BB	1531	C	C5-C6-N1	12.80	127.40	121.00
1	AA	1260	G	C5-C6-O6	-12.80	120.92	128.60
34	BA	113	C	O4'-C1'-N1	12.80	118.44	108.20
35	BB	781	A	N1-C6-N6	12.80	126.28	118.60
35	BB	1126	A	N1-C6-N6	12.80	126.28	118.60
35	BB	2676	C	N3-C4-C5	-12.80	116.78	121.90
1	AA	1241	G	C2-N3-C4	12.79	118.30	111.90
35	BB	2481	G	N1-C6-O6	12.79	127.58	119.90
1	AA	441	A	C5-C6-N6	-12.79	113.47	123.70
1	AA	105	G	N1-C2-N3	-12.79	116.22	123.90
35	BB	1347	A	C5-C6-N6	-12.79	113.47	123.70
1	AA	953	G	N1-C6-O6	12.79	127.57	119.90
35	BB	124	G	C5-N7-C8	12.79	110.69	104.30
1	AA	362	G	C5-C6-O6	-12.78	120.93	128.60
1	AA	489	C	O4'-C1'-N1	12.78	118.43	108.20
1	AA	596	A	N1-C6-N6	12.78	126.27	118.60
1	AA	132	C	N3-C4-C5	-12.78	116.79	121.90
35	BB	277	G	N9-C4-C5	-12.78	100.29	105.40
1	AA	1499	A	C5-N7-C8	12.78	110.29	103.90
35	BB	846	U	O4'-C1'-N1	12.78	118.42	108.20
34	BA	85	G	C5-C6-O6	-12.78	120.93	128.60
35	BB	1728	C	N3-C4-C5	-12.78	116.79	121.90
35	BB	2053	G	C5-C6-O6	-12.78	120.93	128.60
35	BB	602	A	C4-C5-C6	12.77	123.39	117.00
35	BB	677	A	C5-C6-N6	-12.77	113.48	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	639	G	C5-C6-O6	-12.77	120.94	128.60
1	AA	834	U	N1-C2-O2	-12.77	113.86	122.80
35	BB	2364	C	O4'-C1'-N1	12.77	118.42	108.20
1	AA	817	C	N3-C4-C5	-12.77	116.79	121.90
1	AA	1305	G	N1-C6-O6	12.77	127.56	119.90
22	AV	4	C	C5-C4-N4	-12.77	111.26	120.20
35	BB	1006	C	O4'-C1'-N1	12.76	118.41	108.20
1	AA	1322	C	C5-C6-N1	12.76	127.38	121.00
35	BB	1792	G	N1-C6-O6	12.76	127.56	119.90
35	BB	148	U	N3-C4-C5	-12.76	106.95	114.60
35	BB	671	C	O4'-C1'-N1	12.76	118.41	108.20
1	AA	443	C	N3-C4-N4	12.75	126.93	118.00
25	B0	26	ARG	NE-CZ-NH2	-12.75	113.92	120.30
34	BA	118	C	O4'-C1'-N1	12.75	118.40	108.20
34	BA	24	G	C5-C6-O6	-12.75	120.95	128.60
1	AA	737	C	N3-C4-C5	-12.75	116.80	121.90
35	BB	2704	C	N3-C4-C5	-12.75	116.80	121.90
35	BB	2726	A	N1-C6-N6	12.75	126.25	118.60
1	AA	1210	C	N3-C4-N4	12.74	126.92	118.00
35	BB	182	A	C4-C5-N7	-12.74	104.33	110.70
35	BB	2694	G	N1-C6-O6	12.74	127.55	119.90
1	AA	400	C	C5-C4-N4	-12.74	111.28	120.20
22	AV	39	G	C8-N9-C4	-12.74	101.30	106.40
35	BB	2654	A	N1-C6-N6	12.74	126.24	118.60
35	BB	1686	C	O4'-C1'-N1	12.74	118.39	108.20
35	BB	2675	A	C5-C6-N1	-12.73	111.33	117.70
1	AA	190	A	C5-C6-N1	-12.73	111.33	117.70
18	AR	63	TYR	CB-CG-CD2	-12.73	113.36	121.00
34	BA	76	G	N1-C6-O6	12.73	127.54	119.90
1	AA	395	C	N3-C4-N4	12.73	126.91	118.00
1	AA	517	G	N1-C6-O6	12.73	127.54	119.90
1	AA	1134	G	C5-C6-O6	-12.73	120.96	128.60
35	BB	2709	G	N1-C6-O6	12.73	127.53	119.90
1	AA	682	G	N1-C6-O6	12.72	127.53	119.90
35	BB	630	G	N1-C6-O6	12.72	127.53	119.90
1	AA	1365	G	C5-C6-O6	-12.72	120.97	128.60
35	BB	1056	G	O4'-C1'-N9	12.72	118.38	108.20
1	AA	180	U	O4'-C1'-N1	12.72	118.37	108.20
34	BA	61	G	N1-C6-O6	12.72	127.53	119.90
1	AA	465	A	N1-C6-N6	12.71	126.23	118.60
1	AA	653	U	O4'-C1'-N1	12.71	118.37	108.20
1	AA	1456	A	O4'-C1'-N9	12.71	118.37	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2486	C	O4'-C1'-N1	12.71	118.36	108.20
35	BB	2359	C	O4'-C1'-N1	12.70	118.36	108.20
35	BB	597	G	C4-C5-N7	-12.70	105.72	110.80
1	AA	974	A	N1-C6-N6	12.70	126.22	118.60
1	AA	1144	G	C5-C6-O6	-12.70	120.98	128.60
30	B5	180	PHE	CB-CG-CD2	-12.70	111.91	120.80
35	BB	1147	A	N1-C6-N6	12.70	126.22	118.60
35	BB	1672	A	N1-C6-N6	12.69	126.22	118.60
51	BR	80	ARG	NE-CZ-NH1	-12.69	113.95	120.30
35	BB	94	A	N1-C6-N6	12.69	126.22	118.60
35	BB	1135	C	O4'-C1'-N1	12.69	118.35	108.20
35	BB	2349	G	C5-C6-O6	-12.69	120.98	128.60
1	AA	111	G	C5-C6-O6	-12.69	120.99	128.60
35	BB	1768	C	O4'-C1'-N1	12.69	118.35	108.20
35	BB	1824	G	N1-C2-N3	-12.69	116.29	123.90
1	AA	880	C	O4'-C1'-N1	12.68	118.35	108.20
1	AA	918	A	O4'-C1'-N9	12.68	118.34	108.20
35	BB	2152	G	P-O3'-C3'	12.68	134.92	119.70
35	BB	2682	A	C4-C5-N7	-12.68	104.36	110.70
1	AA	858	G	N3-C2-N2	12.68	128.78	119.90
1	AA	1384	C	O4'-C1'-N1	12.68	118.34	108.20
35	BB	1328	A	C5-C6-N1	-12.68	111.36	117.70
35	BB	951	C	O4'-C1'-N1	12.67	118.34	108.20
35	BB	1187	G	C8-N9-C4	-12.67	101.33	106.40
35	BB	1146	C	O4'-C1'-N1	12.67	118.33	108.20
35	BB	2142	A	C8-N9-C4	-12.67	100.73	105.80
35	BB	2498	C	N3-C4-C5	-12.67	116.83	121.90
1	AA	1001	C	O4'-C1'-N1	12.66	118.33	108.20
35	BB	616	A	N1-C6-N6	12.66	126.20	118.60
1	AA	655	A	N1-C6-N6	12.66	126.20	118.60
35	BB	298	G	C6-C5-N7	-12.66	122.80	130.40
35	BB	2359	C	N3-C4-N4	12.66	126.86	118.00
35	BB	2815	C	O4'-C1'-N1	12.66	118.33	108.20
35	BB	364	C	O4'-C1'-N1	12.66	118.33	108.20
35	BB	1444	G	N1-C6-O6	12.66	127.50	119.90
35	BB	2578	G	N1-C6-O6	12.66	127.49	119.90
1	AA	206	C	N3-C4-N4	12.65	126.86	118.00
35	BB	1757	A	N1-C6-N6	12.65	126.19	118.60
35	BB	1823	G	N3-C2-N2	12.65	128.76	119.90
32	B7	13	PHE	CB-CG-CD1	-12.65	111.95	120.80
35	BB	35	G	C8-N9-C4	-12.65	101.34	106.40
1	AA	984	C	N3-C4-N4	12.64	126.85	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1209	C	O4'-C1'-N1	12.64	118.31	108.20
35	BB	1836	C	N3-C4-C5	-12.64	116.84	121.90
35	BB	2704	C	N3-C4-N4	12.64	126.85	118.00
1	AA	908	A	C5-C6-N1	-12.64	111.38	117.70
1	AA	983	A	C8-N9-C4	-12.64	100.75	105.80
35	BB	2211	A	C5-C6-N1	-12.64	111.38	117.70
35	BB	2809	A	O4'-C1'-N9	12.64	118.31	108.20
8	AH	65	PHE	CB-CG-CD1	-12.63	111.96	120.80
35	BB	2892	G	N1-C6-O6	12.63	127.48	119.90
1	AA	1082	A	N1-C6-N6	12.63	126.18	118.60
35	BB	1081	U	C5'-C4'-C3'	12.62	136.20	116.00
35	BB	1987	A	N1-C6-N6	12.63	126.18	118.60
35	BB	2488	G	O4'-C1'-N9	12.62	118.30	108.20
1	AA	468	A	C5-C6-N6	-12.62	113.60	123.70
1	AA	977	A	C5-C6-N6	-12.62	113.61	123.70
1	AA	332	G	C5-C6-O6	-12.62	121.03	128.60
1	AA	1407	C	C6-N1-C2	12.62	125.35	120.30
35	BB	271	G	N1-C6-O6	12.61	127.47	119.90
22	AV	26	A	N1-C6-N6	12.61	126.17	118.60
1	AA	246	A	N1-C2-N3	12.61	135.60	129.30
35	BB	936	A	C5-N7-C8	12.61	110.20	103.90
1	AA	1511	G	N1-C6-O6	12.60	127.46	119.90
35	BB	359	G	O4'-C1'-N9	12.60	118.28	108.20
35	BB	1452	G	N1-C6-O6	12.60	127.46	119.90
1	AA	1531	A	N1-C6-N6	12.60	126.16	118.60
1	AA	184	G	O4'-C1'-N9	12.59	118.27	108.20
1	AA	1365	G	N3-C2-N2	12.59	128.71	119.90
35	BB	1175	A	N1-C6-N6	12.59	126.16	118.60
35	BB	2053	G	N1-C6-O6	12.59	127.45	119.90
35	BB	1953	A	C5-C6-N1	-12.59	111.41	117.70
35	BB	2550	G	C5-C6-O6	-12.59	121.05	128.60
1	AA	301	G	N1-C6-O6	12.58	127.45	119.90
1	AA	815	A	O4'-C1'-N9	12.58	118.27	108.20
35	BB	644	A	N1-C6-N6	12.58	126.15	118.60
35	BB	2325	G	C5-C6-O6	-12.58	121.05	128.60
1	AA	1057	G	N3-C2-N2	12.58	128.71	119.90
35	BB	188	G	C4-C5-N7	-12.58	105.77	110.80
1	AA	98	A	C4-C5-C6	12.58	123.29	117.00
1	AA	746	A	C5-C6-N6	-12.58	113.64	123.70
35	BB	2480	C	O4'-C1'-N1	12.57	118.26	108.20
1	AA	200	G	N1-C6-O6	12.57	127.44	119.90
35	BB	2901	C	O4'-C1'-N1	12.57	118.26	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1618	A	N1-C6-N6	12.57	126.14	118.60
1	AA	52	C	O4'-C1'-N1	12.56	118.25	108.20
1	AA	438	U	O4'-C1'-N1	12.56	118.25	108.20
1	AA	688	G	C4-C5-C6	12.56	126.34	118.80
1	AA	953	G	C5-C6-O6	-12.56	121.06	128.60
35	BB	2638	G	C5-C6-O6	-12.56	121.06	128.60
1	AA	1325	C	N3-C4-C5	-12.56	116.88	121.90
35	BB	2870	C	N3-C4-C5	-12.56	116.88	121.90
1	AA	1279	G	C8-N9-C4	-12.56	101.38	106.40
35	BB	125	A	N1-C6-N6	12.56	126.13	118.60
1	AA	361	G	C5-C6-O6	-12.56	121.07	128.60
1	AA	688	G	C4-C5-N7	-12.55	105.78	110.80
1	AA	10	A	N1-C6-N6	12.55	126.13	118.60
1	AA	140	U	C5-C6-N1	12.55	128.97	122.70
1	AA	1434	A	O4'-C1'-N9	12.55	118.24	108.20
1	AA	760	G	C4-C5-N7	-12.54	105.78	110.80
1	AA	976	G	C5-C6-O6	-12.55	121.07	128.60
1	AA	1267	C	N3-C4-C5	-12.54	116.88	121.90
35	BB	70	G	N1-C6-O6	12.54	127.42	119.90
35	BB	1646	C	N3-C4-C5	-12.54	116.88	121.90
35	BB	488	G	C5-C6-O6	-12.54	121.08	128.60
35	BB	2252	G	C5-C6-N1	-12.54	105.23	111.50
1	AA	203	G	O4'-C1'-N9	12.53	118.23	108.20
1	AA	1207	G	N9-C4-C5	-12.53	100.39	105.40
1	AA	449	G	C6-C5-N7	-12.53	122.88	130.40
1	AA	80	A	N1-C6-N6	12.53	126.12	118.60
1	AA	1315	U	O4'-C1'-N1	12.53	118.22	108.20
35	BB	1389	G	C5-C6-O6	-12.53	121.08	128.60
1	AA	922	G	C4-C5-N7	12.53	115.81	110.80
1	AA	779	C	O4'-C1'-N1	12.52	118.22	108.20
1	AA	254	G	N1-C6-O6	12.52	127.41	119.90
35	BB	1306	C	O4'-C1'-N1	12.52	118.22	108.20
35	BB	1723	G	N1-C6-O6	12.52	127.41	119.90
35	BB	2357	G	N1-C2-N3	-12.52	116.39	123.90
35	BB	298	G	N3-C4-N9	12.52	133.51	126.00
1	AA	931	C	O4'-C1'-N1	12.51	118.21	108.20
35	BB	2476	A	O4'-C1'-N9	12.51	118.21	108.20
1	AA	1019	A	C5-C6-N1	-12.51	111.44	117.70
1	AA	1452	C	N3-C4-C5	-12.51	116.90	121.90
31	B6	39	ARG	NE-CZ-NH1	12.51	126.56	120.30
35	BB	1077	A	C6-C5-N7	-12.51	123.54	132.30
35	BB	127	A	N1-C6-N6	12.51	126.10	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	299	A	C4-C5-C6	12.51	123.25	117.00
35	BB	635	C	O4'-C1'-N1	12.51	118.20	108.20
22	AV	6	C	C6-N1-C2	-12.50	115.30	120.30
35	BB	685	A	N1-C6-N6	12.50	126.10	118.60
1	AA	266	G	N1-C6-O6	12.50	127.40	119.90
35	BB	1450	G	N1-C6-O6	12.50	127.40	119.90
1	AA	1280	A	N1-C2-N3	12.49	135.55	129.30
1	AA	1470	U	O4'-C1'-N1	12.49	118.19	108.20
1	AA	1516	G	C5-C6-O6	-12.49	121.11	128.60
1	AA	1290	G	N1-C6-O6	12.49	127.39	119.90
34	BA	90	C	O4'-C1'-N1	12.49	118.19	108.20
35	BB	2021	C	N3-C4-N4	12.49	126.74	118.00
35	BB	2575	C	N3-C4-N4	12.49	126.74	118.00
1	AA	357	G	C6-C5-N7	-12.48	122.91	130.40
1	AA	642	A	C4-C5-C6	12.48	123.24	117.00
1	AA	1022	A	N1-C6-N6	12.48	126.09	118.60
1	AA	1275	A	N1-C6-N6	12.48	126.09	118.60
35	BB	1165	A	O4'-C1'-N9	12.48	118.19	108.20
35	BB	1724	G	C5-C6-O6	-12.48	121.11	128.60
35	BB	2044	C	N3-C4-C5	-12.48	116.91	121.90
1	AA	299	G	N1-C6-O6	12.48	127.39	119.90
1	AA	985	C	O4'-C1'-N1	12.48	118.18	108.20
35	BB	599	A	N1-C6-N6	12.48	126.09	118.60
35	BB	1047	G	C5-C6-O6	-12.48	121.11	128.60
35	BB	2190	G	O4'-C1'-N9	12.48	118.18	108.20
35	BB	1957	C	N3-C4-N4	12.47	126.73	118.00
35	BB	2706	A	N1-C6-N6	12.47	126.08	118.60
35	BB	2748	A	N1-C6-N6	12.47	126.08	118.60
35	BB	1123	C	N3-C4-N4	12.47	126.73	118.00
35	BB	1346	G	O4'-C1'-N9	12.47	118.18	108.20
1	AA	1142	G	N1-C6-O6	12.47	127.38	119.90
35	BB	412	A	N1-C6-N6	12.46	126.08	118.60
1	AA	1110	A	C5-C6-N1	-12.46	111.47	117.70
35	BB	1039	A	N1-C6-N6	12.46	126.08	118.60
47	BN	90	ARG	NE-CZ-NH1	12.46	126.53	120.30
1	AA	1493	A	C5-C6-N6	-12.46	113.74	123.70
35	BB	1966	A	C4-C5-C6	12.46	123.23	117.00
35	BB	127	A	C5-C6-N6	-12.45	113.74	123.70
43	BJ	44	TYR	CB-CG-CD2	-12.45	113.53	121.00
35	BB	1344	U	O4'-C1'-N1	12.45	118.16	108.20
35	BB	2488	G	C5-C6-O6	-12.45	121.13	128.60
35	BB	2378	A	C5-C6-N1	-12.45	111.48	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2758	A	N9-C4-C5	-12.45	100.82	105.80
1	AA	905	U	O4'-C1'-N1	12.45	118.16	108.20
1	AA	967	C	O4'-C1'-N1	12.45	118.16	108.20
1	AA	1177	G	N1-C6-O6	12.45	127.37	119.90
35	BB	1460	U	O4'-C1'-N1	12.45	118.16	108.20
1	AA	117	G	C5-C6-O6	-12.44	121.14	128.60
1	AA	814	A	N1-C6-N6	12.44	126.07	118.60
35	BB	2791	G	N1-C6-O6	12.44	127.36	119.90
1	AA	143	A	N1-C6-N6	12.43	126.06	118.60
1	AA	485	U	C6-N1-C2	12.43	128.46	121.00
35	BB	2658	C	N3-C4-N4	12.43	126.70	118.00
35	BB	762	U	O4'-C1'-N1	12.43	118.14	108.20
35	BB	1054	A	C5-C6-N1	-12.42	111.49	117.70
35	BB	2583	G	N1-C6-O6	12.42	127.35	119.90
1	AA	382	A	N1-C6-N6	12.42	126.05	118.60
35	BB	707	G	C5-C6-O6	-12.42	121.15	128.60
1	AA	141	G	N3-C4-C5	-12.42	122.39	128.60
35	BB	795	C	N3-C4-N4	12.41	126.69	118.00
35	BB	1587	G	C8-N9-C4	-12.41	101.44	106.40
35	BB	507	A	N9-C4-C5	12.41	110.76	105.80
35	BB	478	A	O4'-C1'-N9	12.41	118.12	108.20
1	AA	374	A	C5-C6-N1	-12.40	111.50	117.70
35	BB	500	G	C4-C5-N7	-12.40	105.84	110.80
35	BB	676	A	N1-C6-N6	12.40	126.04	118.60
1	AA	1296	C	C6-N1-C2	12.40	125.26	120.30
35	BB	292	U	O4'-C1'-N1	12.40	118.12	108.20
35	BB	625	G	O4'-C1'-N9	12.40	118.12	108.20
21	AU	18	PHE	CB-CG-CD2	12.39	129.48	120.80
35	BB	656	G	C4-C5-C6	12.39	126.24	118.80
35	BB	856	G	C5-C6-O6	-12.39	121.16	128.60
1	AA	117	G	N1-C6-O6	12.39	127.33	119.90
22	AV	21	A	N1-C6-N6	12.39	126.03	118.60
35	BB	2722	G	N1-C6-O6	12.39	127.33	119.90
1	AA	64	G	C6-C5-N7	-12.39	122.97	130.40
35	BB	450	G	O4'-C1'-N9	12.39	118.11	108.20
35	BB	1920	C	O4'-C1'-N1	12.39	118.11	108.20
1	AA	1206	G	N1-C6-O6	12.38	127.33	119.90
35	BB	1271	G	C5-C6-O6	-12.38	121.17	128.60
35	BB	164	C	O4'-C1'-N1	12.38	118.11	108.20
35	BB	713	G	C5-C6-O6	-12.38	121.17	128.60
35	BB	2709	G	C5-C6-O6	-12.38	121.17	128.60
1	AA	199	A	N1-C6-N6	12.37	126.02	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	21	G	N1-C6-O6	12.37	127.32	119.90
35	BB	13	A	P-O3'-C3'	12.37	134.54	119.70
35	BB	293	U	C5-C6-N1	12.37	128.89	122.70
35	BB	327	G	C5-C6-O6	-12.37	121.18	128.60
35	BB	666	A	C5-C6-N1	-12.37	111.51	117.70
35	BB	1027	A	N1-C6-N6	12.37	126.02	118.60
35	BB	1569	A	C5-C6-N1	-12.37	111.52	117.70
35	BB	1748	C	N3-C4-C5	-12.37	116.95	121.90
35	BB	2184	A	O4'-C1'-N9	12.37	118.09	108.20
1	AA	713	G	C2-N3-C4	12.36	118.08	111.90
1	AA	760	G	C5-N7-C8	12.36	110.48	104.30
35	BB	317	G	N1-C6-O6	12.36	127.32	119.90
35	BB	745	G	C5-C6-O6	-12.36	121.18	128.60
1	AA	1222	G	C8-N9-C4	-12.36	101.46	106.40
35	BB	5	A	C4-C5-C6	12.36	123.18	117.00
35	BB	26	G	N1-C6-O6	12.36	127.31	119.90
1	AA	661	G	N1-C6-O6	12.36	127.31	119.90
35	BB	838	C	O4'-C1'-N1	12.36	118.08	108.20
51	BR	84	ARG	NE-CZ-NH2	12.36	126.48	120.30
1	AA	792	A	C5-C6-N1	-12.36	111.52	117.70
35	BB	2138	G	C5-C6-O6	-12.35	121.19	128.60
35	BB	521	U	O4'-C1'-N1	12.35	118.08	108.20
22	AV	9	A	N1-C6-N6	12.35	126.01	118.60
35	BB	261	G	C4-C5-N7	12.34	115.74	110.80
35	BB	2070	A	O4'-C1'-N9	12.34	118.08	108.20
1	AA	271	C	N3-C4-N4	12.34	126.64	118.00
35	BB	2180	U	C2-N3-C4	-12.34	119.59	127.00
1	AA	1100	C	N3-C4-C5	-12.34	116.96	121.90
35	BB	978	G	N1-C6-O6	12.34	127.31	119.90
1	AA	1326	U	O4'-C1'-N1	12.34	118.07	108.20
35	BB	2112	G	C5-C6-O6	-12.34	121.20	128.60
35	BB	19	A	C2-N3-C4	-12.33	104.43	110.60
35	BB	773	U	C2-N3-C4	-12.33	119.60	127.00
35	BB	2380	C	O4'-C1'-N1	12.33	118.06	108.20
1	AA	491	G	C2-N3-C4	12.33	118.06	111.90
35	BB	1297	C	N3-C4-N4	12.33	126.63	118.00
35	BB	1177	G	C5-C6-O6	-12.32	121.21	128.60
35	BB	1252	G	N1-C6-O6	12.32	127.29	119.90
1	AA	671	G	N1-C6-O6	12.32	127.29	119.90
1	AA	552	U	O4'-C1'-N1	12.32	118.06	108.20
35	BB	2390	U	O4'-C1'-N1	12.32	118.06	108.20
35	BB	2573	C	N3-C2-O2	-12.32	113.28	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	131	A	C5-C6-N6	-12.32	113.85	123.70
35	BB	1674	G	C5-C6-O6	-12.32	121.21	128.60
1	AA	487	A	N1-C6-N6	12.31	125.99	118.60
35	BB	1493	C	N3-C4-N4	12.31	126.62	118.00
1	AA	1395	C	C6-N1-C2	12.31	125.22	120.30
1	AA	1044	A	C5-C6-N6	-12.31	113.85	123.70
35	BB	2043	C	C6-N1-C2	-12.31	115.38	120.30
39	BF	19	PHE	CB-CG-CD2	12.31	129.42	120.80
1	AA	557	G	O4'-C1'-N9	12.31	118.05	108.20
1	AA	1432	G	C5-C6-O6	-12.31	121.22	128.60
35	BB	93	G	C5-C6-O6	-12.31	121.21	128.60
35	BB	701	G	N1-C6-O6	12.31	127.28	119.90
35	BB	88	G	N1-C2-N3	-12.30	116.52	123.90
35	BB	1548	A	C5-C6-N6	-12.30	113.86	123.70
35	BB	2490	G	N1-C6-O6	12.31	127.28	119.90
35	BB	2697	G	N1-C6-O6	12.31	127.28	119.90
35	BB	1928	A	C4-C5-C6	12.30	123.15	117.00
1	AA	576	C	N3-C4-C5	-12.30	116.98	121.90
35	BB	2874	C	O4'-C1'-N1	12.30	118.04	108.20
35	BB	1920	C	C5-C4-N4	-12.30	111.59	120.20
1	AA	332	G	N1-C6-O6	12.30	127.28	119.90
1	AA	520	A	N1-C6-N6	12.29	125.98	118.60
1	AA	825	A	C8-N9-C4	-12.29	100.88	105.80
1	AA	1238	A	C4-C5-N7	-12.29	104.55	110.70
1	AA	604	G	C4-C5-N7	12.29	115.72	110.80
1	AA	1196	A	C5-C6-N6	-12.29	113.87	123.70
35	BB	793	A	N1-C6-N6	12.29	125.97	118.60
35	BB	879	G	N1-C6-O6	12.28	127.27	119.90
35	BB	348	A	N1-C6-N6	12.28	125.97	118.60
35	BB	695	G	C5-C6-O6	-12.28	121.23	128.60
35	BB	2156	G	O4'-C1'-N9	12.28	118.03	108.20
35	BB	2505	G	N1-C6-O6	12.28	127.27	119.90
35	BB	2618	G	C5-C6-O6	-12.28	121.23	128.60
1	AA	384	G	N1-C6-O6	12.28	127.27	119.90
1	AA	1434	A	C4-C5-C6	12.28	123.14	117.00
35	BB	887	U	C6-N1-C2	-12.28	113.63	121.00
35	BB	1290	C	N3-C4-C5	-12.28	116.99	121.90
35	BB	2224	G	N9-C4-C5	12.28	110.31	105.40
1	AA	673	A	O4'-C1'-N9	12.28	118.02	108.20
1	AA	1513	A	C5-C6-N6	-12.28	113.88	123.70
35	BB	2101	A	C5-C6-N1	-12.27	111.56	117.70
1	AA	487	A	C4-C5-N7	-12.27	104.57	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	688	G	N9-C4-C5	12.27	110.31	105.40
1	AA	1022	A	N9-C4-C5	12.27	110.71	105.80
35	BB	1819	A	C5-C6-N6	-12.27	113.88	123.70
35	BB	2665	A	C4-C5-C6	12.27	123.14	117.00
35	BB	93	G	N1-C6-O6	12.27	127.26	119.90
35	BB	143	C	O4'-C1'-N1	12.27	118.01	108.20
1	AA	1268	G	C5-C6-O6	-12.26	121.24	128.60
16	AP	35	ARG	NE-CZ-NH1	12.26	126.43	120.30
22	AV	51	A	N1-C6-N6	12.26	125.96	118.60
35	BB	2224	G	C8-N9-C4	-12.26	101.50	106.40
35	BB	2515	C	N3-C4-C5	-12.26	117.00	121.90
1	AA	1051	C	C5-C4-N4	-12.26	111.62	120.20
35	BB	2467	C	C2-N3-C4	12.25	126.03	119.90
1	AA	572	A	N1-C6-N6	12.25	125.95	118.60
35	BB	1935	G	O4'-C1'-N9	12.25	118.00	108.20
35	BB	2553	G	C5-C6-O6	-12.25	121.25	128.60
35	BB	247	G	N1-C6-O6	12.24	127.25	119.90
35	BB	314	C	N3-C4-C5	-12.24	117.00	121.90
35	BB	2012	G	N1-C6-O6	12.24	127.24	119.90
35	BB	2407	A	N1-C6-N6	12.24	125.94	118.60
9	AI	98	ARG	NE-CZ-NH2	-12.24	114.18	120.30
34	BA	36	C	O4'-C1'-N1	12.23	117.99	108.20
35	BB	911	A	O4'-C1'-N9	12.23	117.99	108.20
35	BB	1637	A	N1-C6-N6	12.23	125.94	118.60
35	BB	2676	C	C2-N3-C4	12.23	126.02	119.90
35	BB	1857	G	N1-C6-O6	12.23	127.24	119.90
35	BB	2018	G	N1-C6-O6	12.23	127.24	119.90
1	AA	815	A	N1-C6-N6	12.23	125.94	118.60
1	AA	384	G	N7-C8-N9	12.23	119.21	113.10
1	AA	499	A	C5-C6-N6	-12.23	113.92	123.70
22	AV	5	A	O4'-C1'-N9	12.23	117.98	108.20
1	AA	1284	C	O4'-C1'-N1	12.22	117.98	108.20
35	BB	214	G	C5-C6-O6	-12.22	121.27	128.60
35	BB	2227	A	C4-C5-N7	-12.22	104.59	110.70
1	AA	1002	G	N1-C6-O6	12.22	127.23	119.90
35	BB	2406	A	C8-N9-C4	-12.22	100.91	105.80
1	AA	1164	G	N1-C6-O6	12.22	127.23	119.90
35	BB	1106	G	C5-C6-O6	-12.22	121.27	128.60
1	AA	321	A	C4-C5-C6	12.22	123.11	117.00
35	BB	507	A	C5-C6-N6	-12.22	113.92	123.70
35	BB	2415	G	C5-C6-O6	-12.21	121.27	128.60
1	AA	1230	C	N3-C4-N4	12.21	126.55	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2065	C	N3-C4-C5	-12.21	117.02	121.90
1	AA	767	A	N1-C6-N6	12.21	125.93	118.60
1	AA	935	A	N1-C6-N6	12.21	125.93	118.60
35	BB	951	C	N3-C4-N4	12.21	126.55	118.00
35	BB	2478	A	C5-C6-N1	-12.21	111.59	117.70
1	AA	820	U	N3-C4-O4	12.21	127.94	119.40
35	BB	2835	A	C5-C6-N6	-12.21	113.94	123.70
35	BB	803	U	O4'-C1'-N1	12.20	117.96	108.20
1	AA	925	G	N9-C4-C5	-12.20	100.52	105.40
35	BB	1384	A	N1-C6-N6	12.20	125.92	118.60
35	BB	341	C	C5-C4-N4	-12.19	111.66	120.20
1	AA	1101	A	C5-C6-N1	-12.19	111.61	117.70
1	AA	1164	G	N1-C2-N3	-12.19	116.58	123.90
35	BB	146	A	N1-C6-N6	12.19	125.91	118.60
35	BB	363	G	N1-C6-O6	12.19	127.21	119.90
35	BB	1034	G	O4'-C1'-N9	12.19	117.95	108.20
35	BB	2434	A	C4-C5-C6	12.19	123.09	117.00
35	BB	1936	A	C4-C5-C6	12.18	123.09	117.00
1	AA	1462	C	C5-C4-N4	-12.18	111.68	120.20
35	BB	2145	C	C2-N1-C1'	12.17	132.19	118.80
1	AA	1439	G	C5-C6-O6	-12.17	121.30	128.60
1	AA	758	C	N3-C4-N4	12.17	126.52	118.00
1	AA	1116	U	O4'-C1'-N1	12.17	117.93	108.20
1	AA	1094	G	N1-C6-O6	12.16	127.20	119.90
35	BB	1183	U	O4'-C1'-N1	12.16	117.93	108.20
35	BB	2294	G	C4-C5-N7	-12.16	105.94	110.80
35	BB	2726	A	C5-C6-N1	-12.16	111.62	117.70
18	AR	47	ARG	NE-CZ-NH1	12.16	126.38	120.30
21	AU	17	ARG	NE-CZ-NH2	-12.16	114.22	120.30
35	BB	2234	G	C6-N1-C2	12.16	132.39	125.10
22	AV	14	A	N1-C6-N6	12.15	125.89	118.60
35	BB	497	A	O4'-C1'-N9	12.15	117.92	108.20
35	BB	2004	G	C5-C6-O6	-12.15	121.31	128.60
1	AA	205	A	C5-C6-N1	-12.14	111.63	117.70
35	BB	1153	C	C6-N1-C2	-12.14	115.44	120.30
35	BB	2512	C	N3-C4-N4	12.14	126.50	118.00
1	AA	295	C	C6-N1-C2	-12.13	115.45	120.30
1	AA	693	G	N1-C6-O6	12.13	127.18	119.90
34	BA	75	G	N1-C2-N3	-12.13	116.62	123.90
35	BB	1555	G	N1-C6-O6	12.13	127.18	119.90
35	BB	1668	A	N1-C6-N6	12.13	125.88	118.60
35	BB	950	G	O4'-C1'-N9	12.13	117.90	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1383	A	N1-C6-N6	12.13	125.88	118.60
35	BB	281	C	N3-C4-C5	-12.12	117.05	121.90
35	BB	1653	G	N1-C6-O6	12.12	127.17	119.90
35	BB	1276	A	N1-C6-N6	12.12	125.87	118.60
1	AA	765	G	O4'-C1'-N9	12.12	117.90	108.20
21	AU	34	ARG	NE-CZ-NH2	-12.12	114.24	120.30
35	BB	2485	G	N1-C6-O6	12.12	127.17	119.90
35	BB	2256	G	N1-C6-O6	12.11	127.17	119.90
1	AA	15	G	C5-C6-O6	-12.11	121.33	128.60
1	AA	968	A	C2-N3-C4	-12.11	104.55	110.60
1	AA	1028	C	C2-N3-C4	12.11	125.95	119.90
35	BB	1756	G	N1-C6-O6	12.11	127.17	119.90
35	BB	2050	C	N3-C4-N4	12.11	126.48	118.00
35	BB	2721	A	N1-C6-N6	12.11	125.86	118.60
35	BB	2260	C	N3-C4-C5	-12.11	117.06	121.90
35	BB	2666	C	N3-C4-C5	-12.11	117.06	121.90
1	AA	537	G	C5-C6-O6	-12.10	121.34	128.60
35	BB	1571	A	N1-C2-N3	12.10	135.35	129.30
35	BB	2842	G	C5-C6-O6	-12.10	121.34	128.60
1	AA	880	C	N3-C4-C5	-12.10	117.06	121.90
35	BB	2228	G	N1-C6-O6	12.10	127.16	119.90
1	AA	896	C	O4'-C1'-N1	12.10	117.88	108.20
13	AM	89	ARG	NE-CZ-NH2	-12.10	114.25	120.30
1	AA	1302	C	N3-C2-O2	-12.09	113.44	121.90
35	BB	1531	C	C6-N1-C2	-12.09	115.47	120.30
35	BB	2648	G	C6-C5-N7	-12.09	123.15	130.40
1	AA	1048	G	N1-C6-O6	12.09	127.15	119.90
35	BB	1912	A	N1-C6-N6	12.08	125.85	118.60
35	BB	772	C	N3-C4-C5	-12.08	117.07	121.90
35	BB	795	C	C5-C6-N1	12.07	127.04	121.00
35	BB	2572	A	C5-C6-N1	-12.07	111.66	117.70
1	AA	113	G	N3-C4-C5	12.07	134.64	128.60
35	BB	2875	C	O4'-C1'-N1	12.07	117.86	108.20
35	BB	2268	A	N9-C4-C5	12.07	110.63	105.80
1	AA	200	G	C5-C6-O6	-12.07	121.36	128.60
35	BB	453	A	C2-N3-C4	-12.06	104.57	110.60
35	BB	1705	A	N1-C6-N6	12.06	125.84	118.60
35	BB	1018	U	O4'-C1'-N1	12.06	117.85	108.20
35	BB	1572	A	C5-C6-N6	-12.06	114.05	123.70
35	BB	1845	G	C5-C6-O6	-12.06	121.36	128.60
35	BB	1197	G	N1-C6-O6	12.05	127.13	119.90
1	AA	299	G	N3-C2-N2	12.05	128.34	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	174	U	O4'-C1'-N1	12.05	117.84	108.20
35	BB	2412	A	O4'-C1'-N9	12.05	117.84	108.20
35	BB	493	G	C8-N9-C4	-12.05	101.58	106.40
1	AA	308	C	O4'-C1'-N1	12.05	117.84	108.20
1	AA	1334	G	N1-C6-O6	12.05	127.13	119.90
1	AA	1352	C	O4'-C1'-N1	12.04	117.83	108.20
2	AB	29	PHE	CB-CG-CD1	-12.04	112.37	120.80
35	BB	23	G	N1-C6-O6	12.04	127.13	119.90
35	BB	1515	A	C5-C6-N1	-12.04	111.68	117.70
35	BB	2079	U	O4'-C1'-N1	12.04	117.83	108.20
35	BB	2483	C	O4'-C1'-N1	12.04	117.83	108.20
1	AA	282	A	N1-C2-N3	12.04	135.32	129.30
1	AA	495	A	C5-C6-N1	-12.04	111.68	117.70
35	BB	178	G	C4-C5-N7	12.04	115.61	110.80
35	BB	267	C	O4'-C1'-N1	12.04	117.83	108.20
35	BB	424	G	N1-C6-O6	12.03	127.12	119.90
1	AA	796	C	N3-C4-C5	-12.03	117.09	121.90
35	BB	2227	A	C4-C5-C6	12.03	123.02	117.00
35	BB	148	U	C4-C5-C6	12.03	126.92	119.70
35	BB	1007	C	C5-C4-N4	-12.03	111.78	120.20
35	BB	1404	C	O4'-C1'-N1	12.03	117.82	108.20
35	BB	1976	U	O4'-C1'-N1	12.03	117.82	108.20
35	BB	2848	G	C5-C6-O6	-12.03	121.38	128.60
13	AM	22	TYR	CB-CG-CD1	-12.03	113.78	121.00
35	BB	2712	C	C6-N1-C2	12.03	125.11	120.30
4	AD	25	ARG	NE-CZ-NH2	-12.02	114.29	120.30
35	BB	724	U	O4'-C1'-N1	12.02	117.82	108.20
35	BB	1459	G	C5-C6-O6	-12.02	121.39	128.60
35	BB	1660	G	N1-C6-O6	12.02	127.11	119.90
35	BB	757	G	C5-C6-O6	-12.02	121.39	128.60
35	BB	1381	G	N1-C6-O6	12.02	127.11	119.90
22	AV	57	A	N1-C6-N6	12.01	125.81	118.60
35	BB	1114	C	O4'-C1'-N1	12.01	117.81	108.20
35	BB	886	A	N1-C6-N6	12.01	125.81	118.60
35	BB	1804	C	O4'-C1'-N1	12.01	117.81	108.20
35	BB	2015	A	C5-C6-N1	-12.01	111.69	117.70
35	BB	2247	A	N1-C6-N6	12.01	125.81	118.60
35	BB	2706	A	C2-N3-C4	-12.01	104.60	110.60
1	AA	1338	G	O4'-C1'-N9	12.00	117.80	108.20
1	AA	539	A	O4'-C1'-N9	12.00	117.80	108.20
35	BB	2239	G	N3-C2-N2	12.00	128.30	119.90
46	BM	44	ARG	NE-CZ-NH1	-12.00	114.30	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1676	A	C4-C5-C6	12.00	123.00	117.00
35	BB	1746	A	C4-C5-C6	12.00	123.00	117.00
1	AA	908	A	N1-C6-N6	12.00	125.80	118.60
35	BB	1873	G	C8-N9-C4	-12.00	101.60	106.40
39	BF	29	ARG	NE-CZ-NH1	-12.00	114.30	120.30
1	AA	665	A	N1-C6-N6	12.00	125.80	118.60
1	AA	1362	A	O4'-C1'-N9	12.00	117.80	108.20
35	BB	711	G	N1-C2-N3	-12.00	116.70	123.90
35	BB	2689	U	O4'-C1'-N1	12.00	117.80	108.20
38	BE	40	ARG	NE-CZ-NH1	12.00	126.30	120.30
1	AA	907	A	C5-C6-N6	-11.99	114.10	123.70
1	AA	578	C	C5-C6-N1	11.99	127.00	121.00
1	AA	1499	A	C4-C5-C6	11.99	123.00	117.00
1	AA	1521	C	N3-C4-C5	-11.99	117.10	121.90
35	BB	648	G	C8-N9-C4	-11.99	101.60	106.40
35	BB	1241	A	C5-C6-N6	-11.99	114.11	123.70
35	BB	2335	A	C5-C6-N1	-11.99	111.71	117.70
34	BA	59	A	C8-N9-C4	-11.98	101.01	105.80
1	AA	153	C	O4'-C1'-N1	11.98	117.78	108.20
1	AA	262	A	C5-C6-N6	-11.98	114.11	123.70
1	AA	532	A	C5-C6-N1	-11.98	111.71	117.70
22	AV	7	G	N3-C2-N2	11.98	128.29	119.90
1	AA	250	A	N1-C2-N3	-11.98	123.31	129.30
35	BB	2402	U	C5-C4-O4	-11.98	118.71	125.90
1	AA	1483	A	N1-C6-N6	11.98	125.78	118.60
34	BA	104	A	C4-C5-C6	11.98	122.99	117.00
35	BB	2762	C	N3-C4-C5	-11.98	117.11	121.90
1	AA	718	A	C5-C6-N1	-11.97	111.71	117.70
35	BB	514	A	O4'-C1'-N9	11.97	117.78	108.20
35	BB	1353	A	N1-C6-N6	11.97	125.78	118.60
35	BB	2826	A	N1-C2-N3	11.97	135.29	129.30
35	BB	1857	G	C5-C6-O6	-11.97	121.42	128.60
35	BB	2823	A	N1-C2-N3	-11.97	123.31	129.30
1	AA	38	G	O4'-C1'-N9	11.97	117.77	108.20
35	BB	122	G	C5-C6-O6	-11.97	121.42	128.60
35	BB	1136	G	N3-C4-C5	-11.97	122.62	128.60
35	BB	1632	A	C8-N9-C4	-11.97	101.01	105.80
35	BB	2228	G	C5-C6-O6	-11.96	121.42	128.60
1	AA	521	G	N7-C8-N9	11.96	119.08	113.10
35	BB	1399	C	N3-C4-C5	-11.96	117.12	121.90
35	BB	2509	G	N7-C8-N9	11.96	119.08	113.10
1	AA	670	G	N1-C6-O6	11.96	127.08	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	684	U	O4'-C1'-N1	11.96	117.77	108.20
35	BB	185	G	N1-C6-O6	11.96	127.08	119.90
35	BB	2150	C	N3-C4-C5	-11.96	117.12	121.90
34	BA	59	A	N1-C6-N6	11.95	125.77	118.60
35	BB	603	A	N1-C6-N6	11.96	125.77	118.60
35	BB	927	A	C5-C6-N1	-11.96	111.72	117.70
35	BB	1469	A	C4-C5-C6	11.96	122.98	117.00
1	AA	926	G	N3-C4-C5	11.95	134.58	128.60
1	AA	1190	G	N1-C6-O6	11.95	127.07	119.90
35	BB	922	C	O4'-C1'-N1	11.95	117.76	108.20
35	BB	637	A	C5-C6-N6	-11.95	114.14	123.70
35	BB	936	A	N1-C6-N6	11.95	125.77	118.60
1	AA	1408	A	C5-C6-N6	-11.95	114.14	123.70
35	BB	2123	G	C6-N1-C2	-11.95	117.93	125.10
35	BB	1378	A	C4-C5-N7	-11.95	104.73	110.70
35	BB	2770	G	O4'-C1'-N9	11.95	117.76	108.20
35	BB	727	A	C2-N3-C4	-11.94	104.63	110.60
1	AA	145	G	C5-C6-O6	-11.94	121.44	128.60
52	BS	68	ASP	CB-CG-OD2	-11.94	107.55	118.30
1	AA	246	A	N1-C6-N6	11.94	125.76	118.60
35	BB	1891	G	N3-C2-N2	11.94	128.25	119.90
1	AA	691	G	N1-C6-O6	11.93	127.06	119.90
1	AA	950	U	O4'-C1'-N1	11.93	117.74	108.20
35	BB	1158	C	O4'-C1'-N1	11.93	117.74	108.20
35	BB	1816	C	N3-C4-C5	-11.93	117.13	121.90
35	BB	2274	A	N1-C6-N6	11.93	125.76	118.60
35	BB	2317	A	C4-C5-C6	11.93	122.96	117.00
43	BJ	44	TYR	CB-CG-CD1	11.93	128.16	121.00
1	AA	1041	G	N1-C6-O6	11.93	127.06	119.90
35	BB	2294	G	N3-C2-N2	11.93	128.25	119.90
35	BB	2386	A	O4'-C1'-N9	11.93	117.74	108.20
1	AA	799	G	N1-C6-O6	11.92	127.05	119.90
35	BB	1024	G	C8-N9-C4	-11.92	101.63	106.40
35	BB	612	G	N1-C6-O6	11.92	127.05	119.90
1	AA	1094	G	N1-C2-N3	-11.92	116.75	123.90
35	BB	2331	G	C5-C6-N1	-11.92	105.54	111.50
1	AA	98	A	C5-C6-N1	-11.91	111.74	117.70
1	AA	592	G	N1-C2-N3	-11.91	116.75	123.90
1	AA	816	A	C8-N9-C4	-11.91	101.03	105.80
1	AA	1332	A	C8-N9-C4	-11.91	101.03	105.80
4	AD	2	ARG	NE-CZ-NH2	-11.91	114.34	120.30
35	BB	2399	G	C5-C6-N1	-11.91	105.55	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2412	A	N1-C6-N6	11.91	125.75	118.60
35	BB	2821	A	C5-C6-N6	-11.91	114.17	123.70
1	AA	225	C	N1-C2-O2	11.91	126.04	118.90
35	BB	2310	C	O4'-C1'-N1	11.91	117.73	108.20
3	AC	163	ARG	NE-CZ-NH2	-11.91	114.35	120.30
35	BB	9	G	C5-C6-O6	-11.91	121.46	128.60
35	BB	743	A	N1-C6-N6	11.91	125.74	118.60
35	BB	2452	C	O4'-C1'-N1	11.91	117.73	108.20
35	BB	2529	G	C2-N3-C4	11.91	117.85	111.90
35	BB	2360	G	N1-C6-O6	11.90	127.04	119.90
35	BB	763	G	N1-C6-O6	11.90	127.04	119.90
1	AA	487	A	C5-C6-N1	-11.90	111.75	117.70
1	AA	1206	G	C5-C6-O6	-11.90	121.46	128.60
1	AA	1239	A	N1-C6-N6	11.90	125.74	118.60
22	AV	58	A	N1-C6-N6	11.90	125.74	118.60
35	BB	454	A	C5-C6-N6	-11.89	114.18	123.70
1	AA	1071	C	O4'-C1'-N1	11.89	117.71	108.20
35	BB	1797	G	N1-C6-O6	11.89	127.03	119.90
35	BB	2616	C	N3-C4-C5	-11.89	117.14	121.90
1	AA	29	U	O4'-C1'-N1	11.89	117.71	108.20
1	AA	253	A	N1-C6-N6	11.89	125.73	118.60
35	BB	264	C	C5-C6-N1	11.89	126.94	121.00
35	BB	1115	G	C6-C5-N7	-11.89	123.27	130.40
35	BB	1359	A	O4'-C1'-N9	11.89	117.71	108.20
1	AA	794	A	C2-N3-C4	-11.89	104.66	110.60
34	BA	21	G	C5-C6-O6	-11.88	121.47	128.60
35	BB	165	A	C5-C6-N6	-11.88	114.19	123.70
35	BB	1093	G	N7-C8-N9	11.88	119.04	113.10
1	AA	992	U	O4'-C1'-N1	11.88	117.70	108.20
35	BB	188	G	N1-C6-O6	11.88	127.03	119.90
35	BB	457	A	N1-C6-N6	11.88	125.73	118.60
35	BB	1745	A	C8-N9-C4	-11.88	101.05	105.80
35	BB	548	G	N1-C6-O6	11.88	127.03	119.90
35	BB	1334	G	N3-C2-N2	11.88	128.22	119.90
1	AA	933	G	C5-C6-O6	-11.88	121.47	128.60
35	BB	947	A	C4-C5-C6	11.88	122.94	117.00
35	BB	2426	A	C5-C6-N6	-11.88	114.20	123.70
35	BB	904	G	N1-C6-O6	11.88	127.03	119.90
1	AA	821	G	C5-C6-O6	-11.87	121.48	128.60
1	AA	929	G	N1-C6-O6	11.87	127.02	119.90
35	BB	1650	A	N7-C8-N9	-11.87	107.86	113.80
1	AA	502	A	N1-C6-N6	11.87	125.72	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	204	G	C5-C6-O6	-11.86	121.48	128.60
1	AA	913	A	C4-C5-N7	-11.86	104.77	110.70
35	BB	2378	A	N1-C6-N6	11.87	125.72	118.60
34	BA	59	A	C4-C5-C6	11.86	122.93	117.00
35	BB	77	G	N3-C4-N9	11.86	133.12	126.00
1	AA	1444	U	N3-C4-O4	11.86	127.70	119.40
35	BB	121	G	N1-C6-O6	11.86	127.02	119.90
1	AA	15	G	N1-C6-O6	11.86	127.02	119.90
1	AA	1117	A	N1-C6-N6	11.86	125.72	118.60
35	BB	312	G	C5-C6-O6	-11.86	121.48	128.60
1	AA	288	A	N1-C6-N6	11.86	125.71	118.60
1	AA	484	G	P-O3'-C3'	11.86	133.93	119.70
35	BB	197	A	N1-C6-N6	11.86	125.71	118.60
35	BB	861	A	N7-C8-N9	-11.86	107.87	113.80
35	BB	2310	C	N3-C4-C5	-11.86	117.16	121.90
35	BB	2470	G	C5-N7-C8	11.86	110.23	104.30
35	BB	408	G	O4'-C1'-N9	11.85	117.68	108.20
1	AA	545	C	O4'-C1'-N1	11.85	117.68	108.20
1	AA	1070	U	O4'-C1'-N1	11.85	117.68	108.20
1	AA	1520	C	N3-C4-C5	-11.85	117.16	121.90
35	BB	759	G	N1-C6-O6	11.85	127.01	119.90
35	BB	1360	G	C5-C6-O6	-11.85	121.49	128.60
35	BB	1565	C	C6-N1-C2	-11.85	115.56	120.30
1	AA	1027	C	N3-C4-N4	11.84	126.29	118.00
1	AA	996	A	N1-C6-N6	11.84	125.70	118.60
35	BB	628	G	O4'-C1'-N9	11.84	117.67	108.20
35	BB	2761	A	N1-C6-N6	11.84	125.70	118.60
35	BB	2869	G	C5-C6-N1	11.84	117.42	111.50
35	BB	1071	G	N1-C6-O6	11.83	127.00	119.90
35	BB	678	C	N3-C4-C5	-11.83	117.17	121.90
35	BB	797	G	N1-C6-O6	11.83	127.00	119.90
1	AA	266	G	C5-C6-O6	-11.83	121.50	128.60
1	AA	949	A	N1-C6-N6	11.83	125.70	118.60
34	BA	45	A	C5-N7-C8	11.83	109.81	103.90
35	BB	735	A	N1-C6-N6	11.83	125.70	118.60
35	BB	2001	C	N3-C4-N4	11.83	126.28	118.00
35	BB	2505	G	C5-C6-O6	-11.83	121.50	128.60
35	BB	57	C	N3-C4-N4	11.83	126.28	118.00
35	BB	109	C	O4'-C1'-N1	11.83	117.66	108.20
35	BB	2268	A	C4-C5-C6	11.83	122.91	117.00
35	BB	1626	A	C5-C6-N1	-11.82	111.79	117.70
35	BB	2234	G	N1-C6-O6	11.82	127.00	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1179	G	N3-C2-N2	11.82	128.18	119.90
1	AA	1018	G	N1-C2-N3	-11.82	116.81	123.90
35	BB	1122	G	N3-C2-N2	11.82	128.18	119.90
35	BB	1452	G	P-O3'-C3'	11.82	133.89	119.70
1	AA	304	U	C2-N3-C4	11.82	134.09	127.00
1	AA	1433	A	C2-N3-C4	-11.82	104.69	110.60
35	BB	927	A	N1-C6-N6	11.82	125.69	118.60
35	BB	2076	U	P-O3'-C3'	11.82	133.88	119.70
1	AA	1353	G	N3-C2-N2	11.81	128.17	119.90
35	BB	2777	G	N3-C2-N2	11.81	128.17	119.90
1	AA	879	C	O4'-C1'-N1	11.81	117.65	108.20
1	AA	911	U	N1-C2-O2	11.81	131.07	122.80
35	BB	494	G	O4'-C1'-N9	11.81	117.65	108.20
35	BB	1047	G	N1-C6-O6	11.81	126.98	119.90
1	AA	1243	C	O4'-C1'-N1	11.81	117.64	108.20
35	BB	1275	A	P-O3'-C3'	11.81	133.87	119.70
35	BB	2087	G	N1-C6-O6	11.81	126.98	119.90
35	BB	515	A	C5-C6-N6	-11.80	114.26	123.70
35	BB	1435	G	C5-C6-O6	-11.80	121.52	128.60
35	BB	1813	G	N1-C6-O6	11.80	126.98	119.90
35	BB	2076	U	O4'-C1'-N1	11.80	117.64	108.20
1	AA	1433	A	O4'-C1'-N9	11.79	117.63	108.20
35	BB	2412	A	C8-N9-C4	-11.79	101.08	105.80
1	AA	583	A	N1-C6-N6	11.79	125.67	118.60
1	AA	728	A	N1-C6-N6	11.79	125.67	118.60
35	BB	535	G	N1-C6-O6	11.79	126.97	119.90
1	AA	1236	A	N1-C6-N6	11.79	125.67	118.60
35	BB	525	U	O4'-C1'-N1	11.78	117.63	108.20
35	BB	2877	G	N1-C6-O6	11.78	126.97	119.90
1	AA	860	A	N1-C6-N6	11.78	125.67	118.60
1	AA	658	C	O4'-C1'-N1	11.77	117.62	108.20
35	BB	1054	A	C8-N9-C4	-11.77	101.09	105.80
35	BB	2098	U	O4'-C1'-N1	11.77	117.62	108.20
35	BB	2715	C	N3-C4-C5	-11.77	117.19	121.90
35	BB	861	A	N9-C4-C5	-11.77	101.09	105.80
35	BB	1096	A	C4-C5-C6	11.77	122.88	117.00
35	BB	2466	C	O4'-C1'-N1	11.77	117.61	108.20
1	AA	435	A	C5-C6-N6	-11.77	114.29	123.70
35	BB	322	A	P-O3'-C3'	11.77	133.82	119.70
35	BB	440	C	O4'-C1'-N1	11.77	117.61	108.20
35	BB	508	A	N1-C6-N6	11.77	125.66	118.60
1	AA	1347	G	C5-C6-O6	-11.76	121.54	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	749	A	C8-N9-C4	-11.76	101.09	105.80
35	BB	2077	A	N1-C6-N6	11.76	125.66	118.60
1	AA	1239	A	P-O3'-C3'	11.76	133.81	119.70
35	BB	281	C	N3-C4-N4	11.76	126.23	118.00
35	BB	345	A	C4-C5-C6	11.76	122.88	117.00
1	AA	417	G	N1-C6-O6	11.75	126.95	119.90
35	BB	2597	G	N1-C6-O6	11.75	126.95	119.90
1	AA	63	C	N3-C4-N4	11.75	126.22	118.00
35	BB	1972	G	N1-C6-O6	11.75	126.95	119.90
35	BB	1565	C	N3-C4-N4	11.74	126.22	118.00
35	BB	1615	C	O4'-C1'-N1	11.74	117.60	108.20
1	AA	186	C	C6-N1-C2	-11.74	115.61	120.30
1	AA	691	G	C5-C6-O6	-11.74	121.56	128.60
35	BB	1664	A	N1-C6-N6	11.74	125.64	118.60
35	BB	2063	C	N3-C4-N4	11.73	126.21	118.00
35	BB	2313	C	O4'-C1'-N1	11.73	117.59	108.20
35	BB	844	A	C4-C5-C6	11.73	122.86	117.00
35	BB	2495	G	N1-C6-O6	11.73	126.94	119.90
35	BB	2725	A	C4-C5-C6	11.73	122.87	117.00
1	AA	846	G	O4'-C1'-N9	11.73	117.58	108.20
35	BB	1403	A	N9-C4-C5	-11.73	101.11	105.80
35	BB	1570	A	O4'-C1'-N9	11.73	117.58	108.20
35	BB	1619	G	N1-C6-O6	11.73	126.94	119.90
35	BB	395	U	O4'-C1'-N1	11.72	117.58	108.20
35	BB	1010	A	N1-C6-N6	11.72	125.64	118.60
1	AA	1164	G	C2-N3-C4	11.72	117.76	111.90
35	BB	1464	G	C5-C6-O6	-11.72	121.57	128.60
35	BB	2873	A	O4'-C1'-N9	11.72	117.58	108.20
1	AA	675	A	C5-C6-N6	-11.72	114.33	123.70
1	AA	786	G	N1-C6-O6	11.72	126.93	119.90
35	BB	1928	A	N9-C4-C5	11.72	110.49	105.80
35	BB	2013	A	C5-C6-N6	-11.72	114.33	123.70
32	B7	13	PHE	CB-CG-CD2	11.72	129.00	120.80
34	BA	24	G	C8-N9-C4	-11.71	101.71	106.40
1	AA	1060	U	N3-C4-O4	11.71	127.60	119.40
35	BB	1469	A	C6-N1-C2	11.71	125.63	118.60
35	BB	2340	A	C5-C6-N6	-11.71	114.33	123.70
35	BB	2711	A	C8-N9-C4	-11.71	101.11	105.80
35	BB	102	U	O4'-C1'-N1	11.71	117.57	108.20
35	BB	1188	U	C5-C6-N1	11.71	128.55	122.70
35	BB	1480	C	N3-C4-C5	-11.71	117.22	121.90
35	BB	2108	A	C4-C5-C6	11.71	122.85	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	101	A	N1-C6-N6	11.71	125.62	118.60
35	BB	402	A	C8-N9-C4	-11.70	101.12	105.80
1	AA	136	C	C5-C6-N1	11.70	126.85	121.00
35	BB	739	A	C4-C5-C6	11.70	122.85	117.00
35	BB	1552	A	N1-C6-N6	11.70	125.62	118.60
35	BB	2127	G	O4'-C1'-N9	11.70	117.56	108.20
35	BB	625	G	N3-C2-N2	11.70	128.09	119.90
35	BB	2113	U	O4'-C1'-N1	11.70	117.56	108.20
35	BB	2530	A	C5-C6-N6	-11.69	114.34	123.70
35	BB	1230	A	N1-C6-N6	11.69	125.61	118.60
35	BB	1957	C	N3-C4-C5	-11.69	117.22	121.90
35	BB	2024	G	N1-C2-N3	-11.69	116.89	123.90
35	BB	2173	A	N1-C6-N6	11.69	125.61	118.60
35	BB	1416	G	N1-C6-O6	11.69	126.91	119.90
1	AA	425	G	N1-C6-O6	11.68	126.91	119.90
1	AA	1329	A	O4'-C1'-N9	11.68	117.55	108.20
35	BB	774	G	C8-N9-C4	-11.68	101.73	106.40
1	AA	541	G	C5-C6-O6	-11.68	121.59	128.60
1	AA	987	G	C6-C5-N7	-11.68	123.39	130.40
35	BB	262	A	N1-C6-N6	11.68	125.61	118.60
1	AA	353	A	C5-C6-N6	-11.68	114.36	123.70
1	AA	609	A	N1-C6-N6	11.68	125.61	118.60
35	BB	805	G	C5-C6-N1	-11.68	105.66	111.50
1	AA	432	A	N9-C4-C5	11.67	110.47	105.80
1	AA	458	U	O4'-C1'-N1	11.67	117.54	108.20
1	AA	1238	A	N9-C4-C5	11.67	110.47	105.80
35	BB	2317	A	N1-C6-N6	11.67	125.60	118.60
35	BB	187	G	C5-C6-O6	-11.67	121.60	128.60
35	BB	2577	A	N1-C6-N6	11.67	125.60	118.60
35	BB	1594	U	C6-N1-C2	-11.67	114.00	121.00
35	BB	1117	C	O4'-C1'-N1	11.67	117.53	108.20
35	BB	1924	C	O4'-C1'-N1	11.67	117.53	108.20
35	BB	2423	U	O4'-C1'-N1	11.67	117.53	108.20
35	BB	1479	G	N7-C8-N9	-11.66	107.27	113.10
1	AA	1491	G	C8-N9-C4	-11.66	101.73	106.40
35	BB	630	G	C5-C6-O6	-11.66	121.60	128.60
1	AA	923	A	C5-C6-N6	-11.66	114.37	123.70
35	BB	104	A	C8-N9-C4	11.66	110.46	105.80
1	AA	268	U	O4'-C1'-N1	11.66	117.53	108.20
1	AA	918	A	C4-C5-C6	11.66	122.83	117.00
35	BB	654	A	C5-C6-N1	-11.65	111.87	117.70
35	BB	1387	A	C5-C6-N6	-11.65	114.38	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	647	C	O4'-C1'-N1	11.65	117.52	108.20
35	BB	1328	A	C4-C5-C6	11.65	122.83	117.00
35	BB	655	A	O4'-C1'-N9	11.65	117.52	108.20
40	BG	34	ARG	NE-CZ-NH2	-11.65	114.47	120.30
1	AA	842	U	O4'-C1'-N1	11.65	117.52	108.20
35	BB	130	C	C4-C5-C6	11.65	123.22	117.40
1	AA	850	U	O4'-C1'-N1	11.64	117.52	108.20
35	BB	1076	C	C6-N1-C2	11.64	124.96	120.30
1	AA	212	G	N1-C6-O6	11.64	126.89	119.90
1	AA	279	A	C2-N3-C4	-11.64	104.78	110.60
35	BB	84	A	C4-C5-C6	11.64	122.82	117.00
35	BB	423	A	O4'-C1'-N9	11.64	117.51	108.20
35	BB	1580	A	C5-C6-N1	-11.64	111.88	117.70
35	BB	1807	G	N1-C6-O6	11.64	126.89	119.90
35	BB	712	G	N1-C6-O6	11.64	126.88	119.90
35	BB	880	G	P-O3'-C3'	11.64	133.66	119.70
1	AA	44	A	C2-N3-C4	-11.63	104.78	110.60
1	AA	1471	U	O4'-C1'-N1	11.63	117.51	108.20
35	BB	1434	A	C5-C6-N6	-11.63	114.39	123.70
35	BB	1688	U	O4'-C1'-N1	11.63	117.51	108.20
35	BB	2189	U	C5-C6-N1	11.63	128.52	122.70
35	BB	2773	C	N3-C4-N4	11.63	126.14	118.00
35	BB	1532	A	C4-C5-C6	11.63	122.81	117.00
1	AA	446	G	N1-C6-O6	11.63	126.88	119.90
35	BB	1085	A	O4'-C1'-N9	11.63	117.50	108.20
35	BB	2557	G	N9-C4-C5	11.63	110.05	105.40
35	BB	1853	A	C5-C6-N6	-11.63	114.40	123.70
35	BB	15	G	C8-N9-C4	-11.62	101.75	106.40
35	BB	1361	G	C6-C5-N7	-11.62	123.42	130.40
35	BB	1591	A	N1-C6-N6	11.62	125.58	118.60
1	AA	337	G	N1-C6-O6	11.62	126.87	119.90
35	BB	152	A	N1-C6-N6	11.62	125.57	118.60
35	BB	1028	A	C5-C6-N1	-11.62	111.89	117.70
35	BB	1421	G	N1-C6-O6	11.62	126.87	119.90
1	AA	432	A	C5-C6-N1	-11.62	111.89	117.70
35	BB	2447	G	N1-C6-O6	11.62	126.87	119.90
1	AA	1092	A	C8-N9-C4	-11.62	101.15	105.80
35	BB	444	C	O4'-C1'-N1	11.62	117.50	108.20
35	BB	921	C	N3-C4-C5	-11.62	117.25	121.90
35	BB	368	A	C5-C6-N6	-11.62	114.41	123.70
35	BB	614	A	C4-C5-C6	11.62	122.81	117.00
1	AA	176	C	N3-C4-C5	-11.61	117.25	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	481	G	C5-C6-O6	-11.62	121.63	128.60
35	BB	2482	A	N1-C6-N6	11.61	125.57	118.60
35	BB	2459	A	C8-N9-C4	-11.61	101.16	105.80
35	BB	2824	C	O4'-C1'-N1	11.61	117.49	108.20
1	AA	1068	G	C5-C6-O6	-11.61	121.63	128.60
35	BB	372	G	N1-C6-O6	11.61	126.86	119.90
35	BB	2430	A	N1-C6-N6	11.61	125.57	118.60
35	BB	531	C	N3-C4-C5	-11.61	117.26	121.90
1	AA	1353	G	N3-C4-C5	-11.61	122.80	128.60
35	BB	526	A	N1-C6-N6	11.61	125.56	118.60
35	BB	1269	A	C5-N7-C8	11.61	109.70	103.90
35	BB	1746	A	N9-C4-C5	11.61	110.44	105.80
1	AA	519	C	C4-C5-C6	11.60	123.20	117.40
35	BB	1921	G	C4-C5-N7	-11.60	106.16	110.80
1	AA	958	A	C5-C6-N1	-11.60	111.90	117.70
35	BB	106	C	N3-C4-N4	11.60	126.12	118.00
35	BB	1772	A	C8-N9-C4	-11.60	101.16	105.80
35	BB	2193	G	N1-C6-O6	11.60	126.86	119.90
35	BB	380	G	N9-C4-C5	11.60	110.04	105.40
35	BB	2070	A	C5-C6-N1	-11.60	111.90	117.70
35	BB	2330	G	N1-C6-O6	11.60	126.86	119.90
35	BB	2735	G	N1-C6-O6	11.59	126.86	119.90
35	BB	1616	A	N1-C6-N6	11.59	125.55	118.60
35	BB	2134	A	O4'-C1'-N9	11.59	117.47	108.20
35	BB	2859	G	N1-C6-O6	11.59	126.85	119.90
1	AA	1002	G	C8-N9-C4	-11.59	101.77	106.40
35	BB	1658	C	O4'-C1'-N1	11.59	117.47	108.20
1	AA	1086	U	O4'-C1'-N1	11.59	117.47	108.20
1	AA	1473	G	O4'-C1'-N9	11.59	117.47	108.20
35	BB	563	A	N1-C6-N6	11.59	125.55	118.60
35	BB	1426	G	N1-C6-O6	11.59	126.85	119.90
1	AA	126	G	C5-C6-O6	-11.58	121.65	128.60
1	AA	737	C	C4-C5-C6	11.58	123.19	117.40
35	BB	269	C	N3-C4-C5	-11.58	117.27	121.90
35	BB	1984	G	C8-N9-C4	11.58	111.03	106.40
35	BB	2215	C	C5-C6-N1	-11.58	115.21	121.00
1	AA	130	A	C5-N7-C8	11.58	109.69	103.90
52	BS	95	ARG	NE-CZ-NH1	-11.58	114.51	120.30
34	BA	63	C	O4'-C1'-N1	11.58	117.46	108.20
1	AA	1287	A	C5-C6-N6	-11.57	114.44	123.70
35	BB	439	A	C4-C5-C6	11.57	122.79	117.00
35	BB	659	G	N3-C2-N2	11.57	128.00	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1681	G	N3-C4-C5	-11.57	122.81	128.60
35	BB	2234	G	N1-C2-N3	-11.57	116.96	123.90
1	AA	397	A	C5-C6-N1	-11.57	111.92	117.70
35	BB	336	C	O4'-C1'-N1	11.57	117.45	108.20
35	BB	638	G	N1-C2-N3	-11.57	116.96	123.90
35	BB	1424	G	N3-C2-N2	11.57	128.00	119.90
35	BB	2077	A	C4-C5-C6	11.57	122.78	117.00
35	BB	744	U	O4'-C1'-N1	11.57	117.45	108.20
35	BB	2665	A	C5-C6-N1	-11.57	111.92	117.70
3	AC	131	ARG	NE-CZ-NH1	-11.56	114.52	120.30
35	BB	996	A	O4'-C1'-N9	11.56	117.45	108.20
1	AA	587	G	C8-N9-C4	11.56	111.03	106.40
35	BB	217	A	C4-C5-C6	11.56	122.78	117.00
35	BB	2624	G	P-O5'-C5'	11.56	139.40	120.90
1	AA	1479	C	O4'-C1'-N1	11.56	117.45	108.20
35	BB	1180	U	O4'-C1'-N1	11.56	117.45	108.20
35	BB	41	C	C5-C4-N4	-11.56	112.11	120.20
35	BB	1034	G	C5-C6-O6	-11.56	121.66	128.60
1	AA	529	G	C4-C5-N7	11.56	115.42	110.80
35	BB	1895	C	C6-N1-C2	-11.56	115.68	120.30
35	BB	1008	A	C4-C5-C6	11.56	122.78	117.00
1	AA	1344	C	N3-C4-C5	-11.55	117.28	121.90
35	BB	669	G	C8-N9-C4	-11.55	101.78	106.40
35	BB	2466	C	N1-C2-O2	-11.55	111.97	118.90
1	AA	119	A	C8-N9-C4	-11.55	101.18	105.80
35	BB	533	G	C6-N1-C2	11.55	132.03	125.10
35	BB	1150	C	O4'-C1'-N1	11.55	117.44	108.20
35	BB	517	C	O4'-C1'-N1	11.55	117.44	108.20
35	BB	1432	G	N1-C6-O6	11.55	126.83	119.90
35	BB	1997	C	N3-C4-N4	11.55	126.08	118.00
35	BB	1054	A	N9-C4-C5	11.55	110.42	105.80
1	AA	509	A	N1-C6-N6	11.54	125.53	118.60
1	AA	977	A	C4-C5-C6	11.54	122.77	117.00
35	BB	209	C	O4'-C1'-N1	11.54	117.44	108.20
35	BB	1339	G	C5-C6-N1	11.54	117.27	111.50
35	BB	2766	A	C5-C6-N1	-11.54	111.93	117.70
1	AA	58	C	O4'-C1'-N1	11.54	117.43	108.20
1	AA	165	G	C5-C6-O6	-11.54	121.67	128.60
35	BB	347	A	C4-C5-C6	11.54	122.77	117.00
35	BB	1788	C	N3-C4-N4	11.54	126.08	118.00
35	BB	1182	G	N1-C6-O6	11.54	126.82	119.90
1	AA	655	A	C4-C5-C6	11.54	122.77	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	704	A	C5-N7-C8	11.54	109.67	103.90
35	BB	1505	A	N1-C6-N6	11.54	125.52	118.60
39	BF	149	ARG	NE-CZ-NH1	11.54	126.07	120.30
1	AA	1418	A	C4-C5-C6	11.53	122.77	117.00
35	BB	263	G	C5-C6-O6	-11.54	121.68	128.60
35	BB	312	G	N1-C6-O6	11.53	126.82	119.90
35	BB	861	A	N1-C6-N6	11.53	125.52	118.60
35	BB	1353	A	C4-C5-C6	11.54	122.77	117.00
35	BB	2862	G	C4-C5-C6	11.54	125.72	118.80
35	BB	2150	C	C2-N3-C4	11.53	125.67	119.90
1	AA	50	A	C5-C6-N1	-11.53	111.93	117.70
35	BB	6	A	N9-C4-C5	11.53	110.41	105.80
35	BB	800	A	C5-C6-N6	-11.53	114.48	123.70
35	BB	1734	G	C2-N3-C4	11.53	117.67	111.90
35	BB	2852	G	O4'-C1'-N9	11.53	117.42	108.20
1	AA	959	A	N1-C6-N6	11.53	125.52	118.60
1	AA	913	A	C5-N7-C8	11.53	109.66	103.90
35	BB	1154	G	C5-C6-O6	-11.53	121.69	128.60
35	BB	2529	G	N1-C6-O6	11.53	126.81	119.90
39	BF	70	ARG	NE-CZ-NH2	11.53	126.06	120.30
35	BB	602	A	C5-C6-N1	-11.52	111.94	117.70
35	BB	1495	A	N1-C6-N6	11.52	125.51	118.60
1	AA	1167	A	N1-C6-N6	11.52	125.51	118.60
35	BB	668	A	N1-C6-N6	11.52	125.51	118.60
35	BB	1714	U	O4'-C1'-N1	11.52	117.42	108.20
1	AA	817	C	C2-N3-C4	11.52	125.66	119.90
35	BB	1802	A	C4-C5-C6	11.52	122.76	117.00
1	AA	688	G	O4'-C1'-N9	11.52	117.41	108.20
1	AA	935	A	C8-N9-C4	-11.51	101.19	105.80
35	BB	579	G	C5-C6-O6	-11.51	121.69	128.60
35	BB	1145	C	O4'-C1'-N1	11.51	117.41	108.20
35	BB	2488	G	N1-C2-N3	-11.51	116.99	123.90
1	AA	911	U	N1-C2-N3	-11.51	107.99	114.90
35	BB	959	A	C2-N3-C4	11.51	116.36	110.60
35	BB	509	C	C5-C4-N4	-11.51	112.14	120.20
35	BB	990	A	C4-C5-C6	11.51	122.75	117.00
35	BB	2808	G	N1-C6-O6	11.51	126.81	119.90
34	BA	29	A	C5-C6-N6	-11.51	114.50	123.70
1	AA	122	G	N1-C6-O6	11.50	126.80	119.90
35	BB	1305	C	N3-C4-N4	11.50	126.05	118.00
35	BB	1435	G	N1-C6-O6	11.50	126.80	119.90
35	BB	2066	C	O4'-C1'-N1	11.50	117.40	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	179	C	C6-N1-C2	11.50	124.90	120.30
35	BB	570	G	O4'-C1'-N9	11.50	117.40	108.20
1	AA	903	G	N1-C6-O6	11.50	126.80	119.90
22	AV	32	A	P-O3'-C3'	11.50	133.50	119.70
22	AV	72	G	P-O3'-C3'	11.50	133.50	119.70
34	BA	45	A	C5-C6-N6	-11.50	114.50	123.70
35	BB	298	G	C5-C6-N1	-11.50	105.75	111.50
35	BB	945	A	C4-C5-C6	11.50	122.75	117.00
35	BB	363	G	O4'-C1'-N9	11.49	117.39	108.20
35	BB	633	A	C5-C6-N1	-11.49	111.95	117.70
35	BB	1645	G	N1-C6-O6	11.49	126.80	119.90
35	BB	1843	C	N3-C4-C5	-11.49	117.30	121.90
35	BB	2876	G	C5-C6-O6	-11.49	121.70	128.60
35	BB	612	G	C5-C6-O6	-11.49	121.70	128.60
35	BB	1364	G	C5-C6-O6	-11.49	121.70	128.60
35	BB	644	A	C5-C6-N6	-11.49	114.51	123.70
1	AA	62	U	O4'-C1'-N1	11.49	117.39	108.20
35	BB	936	A	C4-C5-C6	11.49	122.74	117.00
52	BS	8	ARG	NE-CZ-NH2	-11.49	114.56	120.30
1	AA	1339	A	C5-C6-N1	-11.48	111.96	117.70
35	BB	1254	A	C5-C6-N1	-11.48	111.96	117.70
1	AA	1179	A	N1-C6-N6	11.48	125.49	118.60
22	AV	59	A	N1-C6-N6	11.48	125.49	118.60
35	BB	285	G	C5-C6-O6	-11.48	121.71	128.60
35	BB	1935	G	N1-C6-O6	11.48	126.79	119.90
35	BB	938	G	O4'-C1'-N9	11.48	117.38	108.20
35	BB	2411	A	C4-C5-C6	11.48	122.74	117.00
1	AA	1479	C	N3-C4-C5	-11.48	117.31	121.90
35	BB	1364	G	N3-C4-N9	-11.48	119.11	126.00
35	BB	1919	A	N1-C6-N6	11.48	125.49	118.60
35	BB	2063	C	N3-C4-C5	-11.48	117.31	121.90
35	BB	2568	U	O4'-C1'-N1	11.48	117.38	108.20
35	BB	235	U	C2-N3-C4	-11.47	120.12	127.00
35	BB	1024	G	N7-C8-N9	11.47	118.84	113.10
35	BB	987	C	O4'-C1'-N1	11.47	117.38	108.20
35	BB	1952	A	O4'-C1'-N9	11.47	117.38	108.20
35	BB	439	A	C5-C6-N1	-11.47	111.97	117.70
1	AA	1109	C	N3-C4-N4	11.47	126.03	118.00
1	AA	327	A	C5-C6-N6	-11.46	114.53	123.70
35	BB	49	A	O4'-C1'-N9	11.46	117.37	108.20
35	BB	326	G	C4-C5-N7	11.46	115.38	110.80
35	BB	784	G	N1-C2-N3	-11.46	117.03	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	41	G	N1-C6-O6	11.45	126.77	119.90
1	AA	1371	G	N1-C6-O6	11.45	126.77	119.90
44	BK	71	ARG	NE-CZ-NH1	11.45	126.03	120.30
1	AA	156	C	N3-C4-C5	-11.45	117.32	121.90
1	AA	1040	U	O4'-C1'-N1	11.45	117.36	108.20
1	AA	1120	C	O4'-C1'-N1	11.45	117.36	108.20
1	AA	706	A	N1-C6-N6	11.45	125.47	118.60
25	B0	73	ARG	NE-CZ-NH2	11.44	126.02	120.30
35	BB	1975	G	C5-C6-O6	-11.44	121.74	128.60
1	AA	174	A	C4-C5-C6	11.44	122.72	117.00
35	BB	391	A	N1-C6-N6	11.44	125.46	118.60
35	BB	1777	U	O4'-C1'-N1	11.44	117.35	108.20
1	AA	722	G	N1-C6-O6	11.43	126.76	119.90
1	AA	812	G	N1-C6-O6	11.43	126.76	119.90
1	AA	948	C	O4'-C1'-N1	11.43	117.35	108.20
35	BB	2127	G	C8-N9-C4	-11.43	101.83	106.40
1	AA	124	C	N3-C4-N4	11.43	126.00	118.00
1	AA	941	G	C5-C6-O6	-11.43	121.74	128.60
35	BB	1143	A	C5-C6-N1	-11.43	111.98	117.70
35	BB	1438	U	O4'-C1'-N1	11.43	117.34	108.20
35	BB	1770	G	N1-C6-O6	11.43	126.76	119.90
35	BB	2378	A	N9-C4-C5	11.43	110.37	105.80
35	BB	2389	G	C5-C6-O6	-11.43	121.74	128.60
47	BN	96	ARG	NE-CZ-NH2	-11.43	114.58	120.30
1	AA	164	G	O4'-C1'-N9	11.43	117.34	108.20
35	BB	2769	U	O4'-C1'-N1	11.43	117.34	108.20
35	BB	2795	C	O4'-C1'-N1	11.42	117.34	108.20
1	AA	466	A	C5-C6-N6	-11.42	114.56	123.70
35	BB	1891	G	N1-C6-O6	11.42	126.75	119.90
35	BB	2302	U	O4'-C1'-N1	11.42	117.34	108.20
35	BB	2699	C	O4'-C1'-N1	11.42	117.33	108.20
35	BB	311	A	O4'-C1'-N9	11.42	117.33	108.20
1	AA	95	C	O4'-C1'-N1	11.42	117.33	108.20
35	BB	2003	A	C4-C5-N7	-11.42	104.99	110.70
1	AA	953	G	C2-N3-C4	-11.41	106.19	111.90
35	BB	188	G	C5-C6-O6	-11.41	121.75	128.60
35	BB	1478	G	N3-C4-C5	-11.41	122.89	128.60
35	BB	136	G	C5-C6-O6	-11.41	121.75	128.60
36	BC	61	TYR	CB-CG-CD1	11.41	127.85	121.00
1	AA	956	U	O4'-C1'-N1	11.41	117.32	108.20
35	BB	401	A	O4'-C1'-N9	11.41	117.33	108.20
35	BB	1534	U	N3-C2-O2	-11.41	114.22	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2170	A	C5-C6-N1	-11.41	112.00	117.70
1	AA	517	G	C5-C6-O6	-11.40	121.76	128.60
35	BB	324	A	N9-C4-C5	11.40	110.36	105.80
1	AA	988	G	C5-C6-O6	-11.40	121.76	128.60
1	AA	371	A	C4-C5-C6	11.40	122.70	117.00
35	BB	862	G	N1-C6-O6	11.40	126.74	119.90
35	BB	1310	G	C6-C5-N7	-11.40	123.56	130.40
35	BB	1853	A	C8-N9-C4	11.40	110.36	105.80
35	BB	1749	A	N1-C6-N6	11.40	125.44	118.60
35	BB	2508	G	N1-C6-O6	11.40	126.74	119.90
35	BB	1256	G	N1-C6-O6	11.40	126.74	119.90
35	BB	1645	G	C5-C6-O6	-11.40	121.76	128.60
1	AA	584	G	C5-C6-O6	-11.39	121.76	128.60
1	AA	1093	A	N1-C2-N3	-11.39	123.60	129.30
20	AT	59	ARG	NE-CZ-NH2	-11.39	114.60	120.30
35	BB	664	G	C5-C6-O6	-11.39	121.76	128.60
35	BB	2825	G	N1-C6-O6	11.39	126.74	119.90
35	BB	862	G	C5-C6-O6	-11.39	121.77	128.60
1	AA	463	U	O4'-C1'-N1	11.39	117.31	108.20
35	BB	159	G	N1-C6-O6	11.39	126.73	119.90
35	BB	1304	A	O4'-C1'-N9	11.39	117.31	108.20
1	AA	1013	G	N1-C6-O6	11.39	126.73	119.90
1	AA	404	G	C5-C6-O6	-11.39	121.77	128.60
35	BB	636	G	C5-C6-O6	-11.39	121.77	128.60
1	AA	429	U	O4'-C1'-N1	11.39	117.31	108.20
35	BB	1499	C	N3-C4-C5	-11.38	117.35	121.90
35	BB	1579	A	C5-N7-C8	11.38	109.59	103.90
1	AA	721	G	C5-C6-O6	-11.38	121.77	128.60
35	BB	1541	C	N3-C4-C5	-11.38	117.35	121.90
35	BB	2664	G	N3-C2-N2	11.38	127.87	119.90
1	AA	637	C	N3-C4-C5	-11.38	117.35	121.90
35	BB	2623	G	C5-C6-O6	-11.38	121.77	128.60
1	AA	549	C	C5-C6-N1	11.37	126.69	121.00
35	BB	2307	G	O4'-C1'-N9	11.38	117.30	108.20
35	BB	2633	G	C5-C6-N1	-11.37	105.81	111.50
35	BB	2738	A	N1-C6-N6	11.37	125.42	118.60
35	BB	2094	A	C4-C5-C6	11.37	122.69	117.00
35	BB	2214	C	N3-C4-C5	-11.37	117.35	121.90
35	BB	2399	G	O4'-C1'-N9	11.37	117.30	108.20
1	AA	212	G	O4'-C1'-N9	11.37	117.29	108.20
1	AA	976	G	N1-C6-O6	11.37	126.72	119.90
1	AA	634	C	O4'-C1'-N1	11.36	117.29	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2644	G	N1-C6-O6	11.36	126.72	119.90
35	BB	1368	G	C5-C6-N1	-11.36	105.82	111.50
35	BB	1985	C	O4'-C1'-N1	11.36	117.29	108.20
35	BB	2641	G	C5-C6-O6	-11.36	121.78	128.60
1	AA	780	A	C4-C5-C6	11.36	122.68	117.00
1	AA	1124	G	C5-C6-O6	-11.36	121.79	128.60
35	BB	1501	G	N1-C6-O6	11.36	126.71	119.90
1	AA	28	A	C4-C5-C6	11.35	122.68	117.00
1	AA	799	G	C5-C6-O6	-11.35	121.79	128.60
35	BB	424	G	C5-C6-O6	-11.35	121.79	128.60
35	BB	1652	A	N1-C6-N6	11.35	125.41	118.60
35	BB	2838	G	C4-C5-N7	11.35	115.34	110.80
35	BB	2875	C	C5-C6-N1	11.35	126.68	121.00
1	AA	782	A	C5-N7-C8	11.35	109.57	103.90
1	AA	1035	A	O4'-C1'-N9	11.35	117.28	108.20
35	BB	1840	G	N3-C2-N2	11.35	127.84	119.90
1	AA	805	C	C5-C6-N1	11.35	126.67	121.00
35	BB	1908	C	O4'-C1'-N1	11.35	117.28	108.20
35	BB	63	A	C5-C6-N1	-11.34	112.03	117.70
35	BB	482	A	C2-N3-C4	-11.34	104.93	110.60
35	BB	1797	G	C8-N9-C4	-11.34	101.86	106.40
35	BB	610	C	O4'-C1'-N1	11.34	117.27	108.20
35	BB	960	A	C5-C6-N1	-11.34	112.03	117.70
35	BB	2426	A	C4-C5-C6	11.34	122.67	117.00
35	BB	1525	A	C5-C6-N6	-11.34	114.63	123.70
35	BB	1832	C	N3-C4-N4	11.34	125.94	118.00
35	BB	2594	C	N3-C4-N4	11.34	125.94	118.00
35	BB	180	G	N3-C2-N2	11.34	127.84	119.90
35	BB	613	A	O4'-C1'-N9	11.34	117.27	108.20
35	BB	1109	C	O4'-C1'-N1	11.34	117.27	108.20
35	BB	2729	G	C5-C6-O6	-11.34	121.80	128.60
1	AA	102	G	C5-C6-O6	-11.34	121.80	128.60
35	BB	1918	A	C5-C6-N1	-11.34	112.03	117.70
35	BB	2102	G	C5-C6-O6	-11.34	121.80	128.60
35	BB	2154	A	N1-C6-N6	11.34	125.40	118.60
35	BB	991	C	O4'-C1'-N1	11.33	117.27	108.20
35	BB	1951	U	O4'-C1'-N1	11.33	117.27	108.20
35	BB	2191	A	C5-C6-N6	-11.33	114.63	123.70
35	BB	64	A	C5-C6-N1	-11.33	112.03	117.70
35	BB	1337	G	N1-C6-O6	11.33	126.70	119.90
1	AA	1106	G	C4-C5-N7	-11.33	106.27	110.80
35	BB	1706	C	O4'-C1'-N1	11.33	117.26	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1292	G	N1-C6-O6	11.32	126.69	119.90
35	BB	305	C	O4'-C1'-N1	11.32	117.26	108.20
35	BB	767	U	O4'-C1'-N1	11.32	117.26	108.20
1	AA	111	G	N1-C6-O6	11.32	126.69	119.90
1	AA	977	A	C5-C6-N1	-11.32	112.04	117.70
1	AA	1191	A	N9-C4-C5	11.32	110.33	105.80
35	BB	2843	G	C2-N3-C4	11.32	117.56	111.90
35	BB	310	A	C5-C6-N1	-11.32	112.04	117.70
35	BB	833	A	C8-N9-C4	-11.32	101.27	105.80
35	BB	838	C	N3-C4-N4	11.32	125.92	118.00
1	AA	468	A	N1-C6-N6	11.32	125.39	118.60
1	AA	1067	A	C5-C6-N6	-11.32	114.65	123.70
35	BB	476	G	C5-C6-O6	-11.32	121.81	128.60
35	BB	1928	A	C5-C6-N1	-11.32	112.04	117.70
35	BB	2717	C	O4'-C1'-N1	11.32	117.25	108.20
7	AG	9	ARG	NE-CZ-NH1	11.31	125.96	120.30
1	AA	1222	G	O4'-C1'-N9	11.31	117.25	108.20
1	AA	1500	A	C4-C5-C6	11.31	122.66	117.00
1	AA	116	A	C5-C6-N1	-11.31	112.05	117.70
35	BB	1175	A	C4-C5-C6	11.31	122.66	117.00
35	BB	2467	C	N3-C4-N4	11.31	125.92	118.00
1	AA	1006	G	N1-C6-O6	11.31	126.69	119.90
34	BA	30	C	C5-C4-N4	-11.31	112.28	120.20
35	BB	760	G	N1-C6-O6	11.31	126.69	119.90
35	BB	910	A	C5-C6-N6	-11.31	114.65	123.70
35	BB	1836	C	C6-N1-C2	-11.31	115.78	120.30
35	BB	2407	A	O4'-C1'-N9	11.31	117.25	108.20
1	AA	1489	G	N1-C6-O6	11.31	126.68	119.90
34	BA	52	A	C5-C6-N1	-11.30	112.05	117.70
35	BB	310	A	C5-N7-C8	11.31	109.55	103.90
35	BB	1333	G	C5-C6-N1	-11.30	105.85	111.50
35	BB	2428	G	C5-C6-O6	-11.30	121.82	128.60
9	AI	94	ARG	NE-CZ-NH2	-11.30	114.65	120.30
1	AA	1114	C	O4'-C1'-N1	11.30	117.24	108.20
35	BB	673	C	O4'-C1'-N1	11.30	117.24	108.20
35	BB	1320	C	N3-C4-C5	-11.30	117.38	121.90
35	BB	2268	A	N3-C4-C5	-11.30	118.89	126.80
35	BB	2482	A	C5-C6-N6	-11.29	114.67	123.70
35	BB	583	G	O4'-C1'-N9	11.29	117.23	108.20
35	BB	699	A	C5-C6-N1	-11.29	112.05	117.70
35	BB	2738	A	N9-C4-C5	-11.29	101.28	105.80
1	AA	62	U	C5-C6-N1	-11.29	117.06	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1678	A	C5-C6-N6	-11.29	114.67	123.70
35	BB	1899	A	N1-C6-N6	11.29	125.37	118.60
1	AA	598	U	O4'-C1'-N1	11.29	117.23	108.20
35	BB	1960	A	C5-C6-N6	-11.28	114.67	123.70
35	BB	2585	U	C5-C4-O4	-11.28	119.13	125.90
35	BB	2211	A	C4-C5-C6	11.28	122.64	117.00
34	BA	67	G	C8-N9-C4	-11.28	101.89	106.40
1	AA	330	C	N3-C4-C5	-11.28	117.39	121.90
1	AA	550	G	C5-C6-N1	-11.28	105.86	111.50
35	BB	2269	G	N1-C6-O6	11.28	126.67	119.90
1	AA	150	U	C5-C4-O4	-11.28	119.14	125.90
1	AA	820	U	C5-C4-O4	-11.28	119.13	125.90
35	BB	2759	G	C6-C5-N7	-11.28	123.63	130.40
1	AA	71	A	N7-C8-N9	-11.27	108.16	113.80
22	AV	69	G	O4'-C1'-N9	11.27	117.22	108.20
35	BB	94	A	C5-C6-N6	-11.27	114.68	123.70
35	BB	968	C	C6-N1-C2	11.27	124.81	120.30
35	BB	2032	G	N1-C6-O6	11.27	126.66	119.90
35	BB	2249	U	O4'-C1'-N1	11.27	117.22	108.20
35	BB	2506	U	O4'-C1'-N1	11.27	117.22	108.20
35	BB	1419	A	N9-C4-C5	11.27	110.31	105.80
35	BB	2063	C	O4'-C1'-N1	11.27	117.21	108.20
35	BB	2424	C	C6-N1-C2	11.27	124.81	120.30
1	AA	284	C	O4'-C1'-N1	11.26	117.21	108.20
1	AA	1475	G	O4'-C1'-N9	11.26	117.21	108.20
35	BB	2534	A	N1-C6-N6	11.26	125.36	118.60
1	AA	374	A	N1-C6-N6	11.26	125.36	118.60
35	BB	1366	A	N1-C6-N6	11.26	125.36	118.60
35	BB	2065	C	C4-C5-C6	11.26	123.03	117.40
1	AA	623	C	N3-C4-C5	-11.26	117.40	121.90
35	BB	484	C	C4-C5-C6	11.26	123.03	117.40
35	BB	1728	C	C4-C5-C6	11.26	123.03	117.40
1	AA	778	G	N1-C2-N3	-11.26	117.15	123.90
35	BB	324	A	C4-C5-C6	11.26	122.63	117.00
35	BB	549	G	N1-C6-O6	11.26	126.65	119.90
35	BB	1718	G	C5-C6-O6	-11.26	121.85	128.60
35	BB	2623	G	N1-C2-N3	-11.26	117.15	123.90
35	BB	1621	U	O4'-C1'-N1	11.25	117.20	108.20
35	BB	1900	A	C5-C6-N6	-11.25	114.70	123.70
35	BB	1969	A	C4-C5-C6	11.25	122.62	117.00
35	BB	2012	G	O4'-C1'-N9	11.25	117.20	108.20
1	AA	484	G	C5-C6-N1	-11.25	105.88	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	564	C	C6-N1-C2	-11.25	115.80	120.30
6	AF	86	ARG	NE-CZ-NH2	-11.25	114.68	120.30
35	BB	1161	C	N3-C4-N4	11.25	125.87	118.00
1	AA	1016	A	C5-C6-N1	-11.24	112.08	117.70
35	BB	1440	U	O4'-C1'-N1	11.24	117.19	108.20
1	AA	808	C	C2-N3-C4	11.24	125.52	119.90
35	BB	221	A	C4-C5-C6	11.24	122.62	117.00
1	AA	979	C	P-O3'-C3'	11.24	133.19	119.70
35	BB	23	G	C5-C6-O6	-11.24	121.86	128.60
35	BB	781	A	N9-C4-C5	11.24	110.30	105.80
35	BB	2859	G	C5-C6-O6	-11.24	121.86	128.60
1	AA	385	C	C6-N1-C2	-11.23	115.81	120.30
1	AA	838	G	C5-C6-O6	-11.23	121.86	128.60
35	BB	2679	A	N1-C6-N6	11.23	125.34	118.60
1	AA	821	G	N1-C6-O6	11.23	126.64	119.90
35	BB	1743	G	N1-C6-O6	11.23	126.64	119.90
1	AA	42	G	N1-C6-O6	11.23	126.64	119.90
1	AA	1166	G	C5-C6-O6	-11.23	121.86	128.60
35	BB	682	G	C5-C6-O6	-11.23	121.86	128.60
35	BB	2407	A	C8-N9-C4	-11.23	101.31	105.80
35	BB	1834	U	O4'-C1'-N1	11.23	117.18	108.20
35	BB	2331	G	C6-C5-N7	-11.23	123.66	130.40
35	BB	2835	A	C4-C5-N7	-11.23	105.09	110.70
1	AA	1360	A	N1-C6-N6	11.22	125.33	118.60
35	BB	182	A	N1-C6-N6	11.22	125.33	118.60
35	BB	1461	C	O4'-C1'-N1	11.22	117.18	108.20
35	BB	624	C	N3-C4-C5	-11.22	117.41	121.90
35	BB	948	C	C5-C4-N4	-11.22	112.34	120.20
35	BB	1789	A	O4'-C1'-N9	11.22	117.18	108.20
35	BB	68	G	N1-C2-N3	-11.22	117.17	123.90
1	AA	178	C	N3-C4-C5	-11.22	117.41	121.90
1	AA	319	G	O4'-C1'-N9	11.21	117.17	108.20
35	BB	290	U	C5-C4-O4	-11.21	119.17	125.90
35	BB	679	C	O4'-C1'-N1	11.21	117.17	108.20
35	BB	138	U	O4'-C1'-N1	11.21	117.17	108.20
35	BB	1424	G	N1-C2-N3	-11.21	117.17	123.90
35	BB	1642	G	C5-C6-O6	-11.21	121.87	128.60
35	BB	2007	U	O4'-C1'-N1	11.21	117.17	108.20
35	BB	2828	G	N1-C6-O6	11.21	126.63	119.90
35	BB	1682	G	N1-C2-N3	-11.21	117.17	123.90
35	BB	43	G	C6-C5-N7	-11.20	123.68	130.40
35	BB	1754	A	C5-C6-N6	-11.20	114.74	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2029	G	N1-C6-O6	11.20	126.62	119.90
35	BB	2389	G	C8-N9-C4	-11.20	101.92	106.40
35	BB	2560	A	N9-C4-C5	11.20	110.28	105.80
49	BP	92	ARG	NE-CZ-NH2	-11.20	114.70	120.30
35	BB	716	A	C6-C5-N7	-11.20	124.46	132.30
35	BB	2046	G	N1-C6-O6	11.20	126.62	119.90
1	AA	568	G	C5-C6-O6	-11.19	121.88	128.60
35	BB	775	G	N3-C2-N2	11.19	127.74	119.90
35	BB	1462	C	C5-C6-N1	11.20	126.60	121.00
1	AA	1430	A	N1-C6-N6	11.19	125.32	118.60
16	AP	31	ARG	NE-CZ-NH2	11.19	125.90	120.30
35	BB	471	A	C5-C6-N1	-11.19	112.10	117.70
35	BB	1297	C	O4'-C1'-N1	11.19	117.15	108.20
35	BB	2565	A	N1-C2-N3	-11.19	123.70	129.30
1	AA	86	G	C5-C6-O6	-11.19	121.89	128.60
1	AA	1215	G	N1-C6-O6	11.19	126.61	119.90
1	AA	1241	G	O4'-C1'-N9	11.19	117.15	108.20
35	BB	713	G	N1-C6-O6	11.19	126.61	119.90
35	BB	1433	A	N1-C6-N6	11.19	125.31	118.60
35	BB	38	A	C5-C6-N6	-11.19	114.75	123.70
1	AA	258	G	C5-C6-O6	-11.18	121.89	128.60
35	BB	163	C	O4'-C1'-N1	11.18	117.14	108.20
35	BB	1975	G	C6-C5-N7	-11.18	123.69	130.40
47	BN	2	ARG	NE-CZ-NH1	11.18	125.89	120.30
35	BB	1167	C	O4'-C1'-N1	11.18	117.14	108.20
1	AA	1405	G	N3-C2-N2	11.18	127.72	119.90
35	BB	2516	A	O4'-C1'-N9	11.18	117.14	108.20
1	AA	1190	G	C5-C6-O6	-11.17	121.90	128.60
35	BB	126	A	N1-C6-N6	11.17	125.30	118.60
35	BB	1362	C	C5-C4-N4	-11.17	112.38	120.20
1	AA	537	G	N1-C6-O6	11.17	126.60	119.90
1	AA	888	G	C5-C6-N1	-11.17	105.92	111.50
1	AA	1175	G	C5-C6-O6	-11.17	121.90	128.60
35	BB	707	G	C5-N7-C8	11.17	109.88	104.30
35	BB	2532	G	N1-C6-O6	11.17	126.60	119.90
34	BA	116	G	N1-C6-O6	11.17	126.60	119.90
1	AA	327	A	N9-C4-C5	11.17	110.27	105.80
1	AA	128	G	N3-C2-N2	11.16	127.72	119.90
34	BA	15	A	C5-C6-N1	-11.16	112.12	117.70
35	BB	1760	C	N3-C4-C5	-11.16	117.44	121.90
35	BB	2012	G	C4-C5-C6	11.16	125.50	118.80
1	AA	111	G	O4'-C1'-N9	11.16	117.13	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1435	G	N1-C6-O6	11.16	126.59	119.90
35	BB	1746	A	N1-C6-N6	11.16	125.29	118.60
35	BB	2227	A	C8-N9-C4	-11.16	101.34	105.80
1	AA	251	G	C5-C6-O6	-11.15	121.91	128.60
35	BB	104	A	C4-C5-C6	11.15	122.58	117.00
35	BB	2476	A	C4-C5-C6	11.15	122.58	117.00
1	AA	372	C	N3-C4-N4	11.15	125.80	118.00
39	BF	114	ARG	NE-CZ-NH1	-11.15	114.73	120.30
40	BG	148	ARG	NE-CZ-NH2	-11.15	114.73	120.30
1	AA	145	G	N1-C6-O6	11.14	126.59	119.90
1	AA	211	G	O4'-C1'-N9	11.14	117.11	108.20
1	AA	814	A	C5-C6-N6	-11.14	114.78	123.70
35	BB	899	A	N1-C6-N6	11.14	125.28	118.60
1	AA	144	G	O4'-C1'-N9	11.14	117.11	108.20
1	AA	766	A	C5-C6-N1	-11.14	112.13	117.70
34	BA	39	A	C5-C6-N6	-11.14	114.79	123.70
35	BB	1527	G	C5-C6-O6	-11.13	121.92	128.60
1	AA	1409	C	C6-N1-C2	-11.13	115.85	120.30
35	BB	97	C	N3-C4-C5	-11.13	117.45	121.90
34	BA	21	G	O4'-C1'-N9	11.13	117.10	108.20
35	BB	2078	C	N3-C4-N4	11.13	125.79	118.00
1	AA	1426	G	C5-C6-O6	-11.12	121.93	128.60
35	BB	1496	A	C2-N3-C4	11.12	116.16	110.60
35	BB	1968	G	N9-C4-C5	-11.12	100.95	105.40
35	BB	2271	G	N1-C6-O6	11.12	126.58	119.90
1	AA	577	G	C6-C5-N7	-11.12	123.73	130.40
35	BB	2822	G	C5-N7-C8	11.12	109.86	104.30
1	AA	56	U	O4'-C1'-N1	11.12	117.09	108.20
1	AA	930	C	C6-N1-C2	-11.12	115.85	120.30
35	BB	821	A	N9-C4-C5	11.12	110.25	105.80
1	AA	799	G	O4'-C1'-N9	11.12	117.09	108.20
1	AA	961	U	O4'-C1'-N1	11.12	117.09	108.20
1	AA	1421	G	N3-C2-N2	11.11	127.68	119.90
35	BB	449	A	N1-C6-N6	11.11	125.27	118.60
35	BB	476	G	C6-N1-C2	-11.11	118.43	125.10
35	BB	593	U	O4'-C1'-N1	11.11	117.09	108.20
1	AA	1100	C	O4'-C1'-N1	11.11	117.09	108.20
1	AA	1288	A	N7-C8-N9	11.11	119.35	113.80
35	BB	1575	C	N3-C4-C5	-11.11	117.46	121.90
35	BB	2789	C	N3-C4-N4	11.11	125.78	118.00
36	BC	160	TYR	CB-CG-CD2	11.11	127.67	121.00
35	BB	2564	A	C4-C5-C6	11.11	122.55	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	41	G	O4'-C1'-N9	11.10	117.08	108.20
35	BB	2805	C	O4'-C1'-N1	11.10	117.08	108.20
1	AA	562	U	O4'-C1'-N1	11.10	117.08	108.20
1	AA	987	G	N3-C4-C5	-11.10	123.05	128.60
35	BB	1413	A	O4'-C1'-N9	11.10	117.08	108.20
1	AA	828	U	O4'-C1'-N1	11.10	117.08	108.20
35	BB	1398	C	N1-C2-O2	11.10	125.56	118.90
3	AC	183	TYR	CB-CG-CD2	-11.10	114.34	121.00
35	BB	547	A	C5-C6-N1	-11.10	112.15	117.70
35	BB	2616	C	O4'-C1'-N1	11.10	117.08	108.20
35	BB	216	A	N1-C6-N6	11.10	125.26	118.60
1	AA	247	G	O4'-C1'-N9	11.09	117.08	108.20
35	BB	815	C	O4'-C1'-N1	11.09	117.07	108.20
35	BB	2740	A	C5-C6-N6	-11.09	114.83	123.70
1	AA	214	C	C2-N3-C4	11.09	125.44	119.90
1	AA	761	G	C5-C6-O6	-11.09	121.95	128.60
1	AA	1352	C	N3-C4-C5	-11.09	117.46	121.90
35	BB	317	G	C5-C6-O6	-11.09	121.94	128.60
35	BB	1049	C	N3-C4-N4	11.09	125.76	118.00
35	BB	1256	G	C5-C6-O6	-11.09	121.95	128.60
35	BB	1279	G	N1-C6-O6	11.09	126.56	119.90
35	BB	2111	U	N3-C4-O4	11.09	127.16	119.40
1	AA	259	G	O4'-C1'-N9	11.09	117.07	108.20
35	BB	2714	G	O4'-C1'-N9	11.09	117.07	108.20
1	AA	205	A	C4-C5-C6	11.08	122.54	117.00
1	AA	745	G	N1-C6-O6	11.08	126.55	119.90
35	BB	1918	A	C4-C5-C6	11.08	122.54	117.00
1	AA	470	C	N3-C4-C5	-11.08	117.47	121.90
35	BB	2063	C	C2-N3-C4	11.08	125.44	119.90
35	BB	202	U	O4'-C1'-N1	11.08	117.06	108.20
35	BB	696	G	O4'-C1'-N9	11.07	117.06	108.20
35	BB	191	A	C4-C5-C6	11.07	122.54	117.00
35	BB	766	U	C4-C5-C6	11.07	126.34	119.70
35	BB	1196	C	N3-C4-C5	-11.07	117.47	121.90
35	BB	2454	G	N1-C6-O6	11.07	126.54	119.90
35	BB	2391	G	O4'-C1'-N9	11.07	117.06	108.20
35	BB	2425	A	N1-C6-N6	11.07	125.24	118.60
35	BB	996	A	C5-C6-N6	-11.07	114.85	123.70
35	BB	1496	A	N9-C4-C5	11.07	110.23	105.80
1	AA	524	G	C5-C6-O6	-11.06	121.96	128.60
1	AA	639	G	N1-C6-O6	11.06	126.54	119.90
7	AG	77	ARG	NE-CZ-NH2	-11.06	114.77	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	124	G	C4-C5-N7	-11.06	106.37	110.80
35	BB	2788	C	O4'-C1'-N1	11.06	117.05	108.20
35	BB	176	A	N1-C6-N6	11.06	125.24	118.60
1	AA	714	G	C5-C6-O6	-11.06	121.96	128.60
12	AL	53	ARG	NE-CZ-NH1	11.06	125.83	120.30
35	BB	1519	G	N3-C2-N2	11.06	127.64	119.90
1	AA	1169	A	C5-C6-N1	-11.06	112.17	117.70
19	AS	80	ARG	NE-CZ-NH1	11.06	125.83	120.30
34	BA	35	C	C2-N1-C1'	11.06	130.96	118.80
34	BA	34	A	C5-C6-N1	-11.06	112.17	117.70
1	AA	1206	G	C4-C5-N7	11.05	115.22	110.80
35	BB	64	A	N1-C6-N6	11.05	125.23	118.60
35	BB	1861	G	O4'-C1'-N9	11.05	117.04	108.20
35	BB	2837	A	C5-C6-N6	-11.05	114.86	123.70
1	AA	201	G	N1-C2-N3	-11.05	117.27	123.90
35	BB	2839	G	O4'-C1'-N9	11.05	117.04	108.20
1	AA	48	C	C2-N3-C4	11.05	125.42	119.90
1	AA	774	G	N9-C4-C5	11.05	109.82	105.40
1	AA	970	C	N3-C4-N4	11.05	125.73	118.00
40	BG	148	ARG	NE-CZ-NH1	11.05	125.82	120.30
1	AA	887	G	C5-C6-O6	-11.04	121.97	128.60
35	BB	95	A	C5-C6-N6	-11.04	114.86	123.70
35	BB	715	A	C5-C6-N6	-11.04	114.86	123.70
35	BB	1353	A	C5-C6-N1	-11.04	112.18	117.70
40	BG	34	ARG	NE-CZ-NH1	11.04	125.82	120.30
35	BB	371	A	C5-C6-N1	-11.04	112.18	117.70
35	BB	2168	G	C5-C6-O6	-11.04	121.97	128.60
1	AA	594	U	O4'-C1'-N1	11.04	117.03	108.20
1	AA	825	A	N7-C8-N9	11.04	119.32	113.80
1	AA	1365	G	C4-C5-N7	11.04	115.22	110.80
35	BB	885	C	O4'-C1'-N1	11.04	117.03	108.20
35	BB	1500	G	N3-C4-C5	-11.04	123.08	128.60
35	BB	1901	A	C4-C5-C6	11.04	122.52	117.00
35	BB	2688	G	C5-C6-O6	-11.04	121.98	128.60
1	AA	759	A	O4'-C1'-N9	11.04	117.03	108.20
35	BB	2637	U	O4'-C1'-N1	11.04	117.03	108.20
34	BA	110	C	N3-C4-N4	11.03	125.72	118.00
35	BB	2864	G	O4'-C1'-N9	11.03	117.03	108.20
32	B7	7	ARG	NE-CZ-NH2	-11.03	114.78	120.30
35	BB	1326	U	O4'-C1'-N1	11.03	117.03	108.20
35	BB	2018	G	C5-C6-O6	-11.03	121.98	128.60
35	BB	857	G	N1-C2-N3	-11.03	117.28	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	360	G	O4'-C1'-N9	11.03	117.02	108.20
12	AL	93	ARG	NE-CZ-NH1	-11.03	114.79	120.30
1	AA	1150	A	C4-C5-C6	11.03	122.51	117.00
30	B5	111	PHE	CB-CG-CD2	-11.03	113.08	120.80
35	BB	739	A	C8-N9-C4	-11.03	101.39	105.80
1	AA	49	U	C5-C4-O4	11.02	132.51	125.90
6	AF	38	ARG	NE-CZ-NH1	11.02	125.81	120.30
35	BB	2811	G	O4'-C1'-N9	11.02	117.02	108.20
35	BB	794	A	N1-C6-N6	11.02	125.21	118.60
1	AA	148	G	C4-C5-N7	11.02	115.21	110.80
1	AA	838	G	O4'-C1'-N9	11.02	117.01	108.20
35	BB	547	A	N1-C6-N6	11.02	125.21	118.60
35	BB	645	C	C2-N3-C4	11.02	125.41	119.90
35	BB	979	A	N1-C6-N6	11.02	125.21	118.60
35	BB	1287	A	O4'-C1'-N9	11.02	117.02	108.20
35	BB	1432	G	C5-C6-O6	-11.02	121.99	128.60
1	AA	1504	G	N1-C6-O6	11.02	126.51	119.90
35	BB	787	C	O4'-C1'-N1	11.02	117.01	108.20
35	BB	430	A	N1-C6-N6	11.01	125.21	118.60
1	AA	505	G	N3-C2-N2	11.01	127.61	119.90
1	AA	909	A	C6-C5-N7	-11.01	124.59	132.30
1	AA	1171	A	O4'-C1'-N9	11.01	117.01	108.20
35	BB	181	A	C5-C6-N6	-11.01	114.89	123.70
35	BB	788	A	C4-C5-C6	11.01	122.50	117.00
1	AA	1312	G	C5-C6-N1	-11.01	106.00	111.50
1	AA	1394	A	C5-C6-N6	-11.01	114.89	123.70
35	BB	582	A	N1-C6-N6	11.01	125.20	118.60
35	BB	1681	G	C5-C6-O6	-11.01	122.00	128.60
35	BB	2031	A	C5-C6-N6	-11.01	114.89	123.70
35	BB	341	C	N3-C4-N4	11.01	125.70	118.00
35	BB	741	U	N3-C4-O4	11.01	127.10	119.40
35	BB	1292	G	C5-C6-O6	-11.01	122.00	128.60
1	AA	193	C	O4'-C1'-N1	11.00	117.00	108.20
35	BB	884	U	C5-C4-O4	-11.00	119.30	125.90
35	BB	2119	A	C4-C5-C6	11.00	122.50	117.00
46	BM	66	ARG	NE-CZ-NH1	11.00	125.80	120.30
1	AA	741	G	N1-C6-O6	11.00	126.50	119.90
35	BB	1310	G	N1-C6-O6	11.00	126.50	119.90
35	BB	254	G	C8-N9-C4	-11.00	102.00	106.40
1	AA	221	C	N3-C4-C5	-11.00	117.50	121.90
35	BB	2868	A	O4'-C1'-N9	11.00	117.00	108.20
1	AA	714	G	C4-C5-N7	10.99	115.20	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	940	C	N3-C4-N4	10.99	125.70	118.00
35	BB	1850	G	C5-C6-O6	-10.99	122.00	128.60
35	BB	263	G	C6-C5-N7	-10.99	123.81	130.40
35	BB	924	G	C6-C5-N7	-10.99	123.81	130.40
35	BB	2254	C	O4'-C1'-N1	10.99	117.00	108.20
35	BB	2693	G	N1-C6-O6	10.99	126.50	119.90
35	BB	2355	G	C5-C6-O6	-10.99	122.01	128.60
1	AA	1019	A	C4-C5-C6	10.99	122.50	117.00
1	AA	1159	U	O4'-C1'-N1	10.99	116.99	108.20
35	BB	1028	A	C4-C5-C6	10.99	122.49	117.00
35	BB	2223	G	N1-C6-O6	10.99	126.49	119.90
1	AA	40	C	N3-C4-C5	-10.98	117.51	121.90
35	BB	43	G	N1-C6-O6	10.98	126.49	119.90
35	BB	153	U	O4'-C1'-N1	10.98	116.99	108.20
35	BB	1253	A	N1-C6-N6	10.98	125.19	118.60
35	BB	2570	G	N9-C4-C5	10.98	109.79	105.40
1	AA	693	G	O4'-C1'-N9	10.98	116.98	108.20
1	AA	442	G	O4'-C1'-N9	10.97	116.98	108.20
1	AA	592	G	N1-C6-O6	10.97	126.48	119.90
1	AA	1310	G	O4'-C1'-N9	10.97	116.98	108.20
35	BB	1075	C	C5-C4-N4	-10.97	112.52	120.20
35	BB	363	G	C5-C6-O6	-10.97	122.02	128.60
35	BB	431	U	C5-C4-O4	10.97	132.48	125.90
35	BB	1088	A	O4'-C1'-C2'	-10.97	94.83	105.80
35	BB	1521	G	N1-C6-O6	10.97	126.48	119.90
35	BB	2172	U	O4'-C1'-N1	10.97	116.98	108.20
35	BB	1410	G	N1-C6-O6	10.97	126.48	119.90
35	BB	1533	C	N3-C4-C5	-10.97	117.51	121.90
1	AA	297	G	C5-C6-O6	-10.96	122.02	128.60
1	AA	1499	A	N1-C6-N6	10.96	125.18	118.60
35	BB	1756	G	N7-C8-N9	-10.96	107.62	113.10
1	AA	57	G	C5-C6-O6	-10.96	122.02	128.60
1	AA	1253	G	N3-C4-C5	10.96	134.08	128.60
35	BB	1408	G	C4-C5-C6	10.96	125.38	118.80
35	BB	472	A	N1-C6-N6	10.96	125.17	118.60
1	AA	1028	C	N1-C2-O2	10.96	125.47	118.90
35	BB	1512	C	O4'-C1'-N1	10.96	116.96	108.20
35	BB	1870	C	N3-C4-C5	-10.95	117.52	121.90
1	AA	212	G	C5-C6-O6	-10.95	122.03	128.60
35	BB	779	U	O4'-C1'-N1	10.95	116.96	108.20
35	BB	1279	G	O4'-C1'-N9	10.95	116.96	108.20
35	BB	2234	G	C5-C6-N1	-10.95	106.02	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	283	G	C5-C6-O6	-10.95	122.03	128.60
35	BB	792	A	C5-C6-N1	-10.95	112.22	117.70
35	BB	548	G	C5-C6-O6	-10.95	122.03	128.60
35	BB	1582	C	C5-C4-N4	-10.95	112.54	120.20
1	AA	6	G	N1-C6-O6	10.94	126.47	119.90
1	AA	897	C	C2-N3-C4	10.94	125.37	119.90
1	AA	1110	A	N1-C6-N6	10.95	125.17	118.60
1	AA	1404	C	C2-N1-C1'	10.94	130.84	118.80
35	BB	2036	C	C6-N1-C2	-10.94	115.92	120.30
35	BB	2291	U	O4'-C1'-N1	10.95	116.96	108.20
35	BB	2733	A	C5-C6-N1	-10.95	112.23	117.70
35	BB	1116	G	N1-C6-O6	10.94	126.47	119.90
35	BB	2073	C	C2-N3-C4	10.94	125.37	119.90
1	AA	1432	G	N1-C6-O6	10.94	126.46	119.90
22	AV	6	C	C5-C6-N1	10.94	126.47	121.00
1	AA	87	C	N3-C4-C5	-10.94	117.53	121.90
1	AA	745	G	C5-C6-O6	-10.94	122.04	128.60
35	BB	540	C	C5-C6-N1	10.94	126.47	121.00
35	BB	1967	C	C2-N3-C4	10.94	125.37	119.90
35	BB	1002	G	O4'-C1'-N9	10.93	116.95	108.20
1	AA	347	G	N3-C2-N2	10.93	127.55	119.90
1	AA	1459	G	C6-C5-N7	-10.93	123.84	130.40
35	BB	299	A	C4-C5-N7	-10.93	105.23	110.70
35	BB	352	A	C8-N9-C4	-10.93	101.43	105.80
1	AA	1322	C	C2-N1-C1'	10.93	130.82	118.80
35	BB	865	C	N3-C4-N4	10.93	125.65	118.00
35	BB	1043	C	O4'-C1'-N1	10.93	116.94	108.20
35	BB	2854	G	O4'-C1'-N9	10.93	116.94	108.20
1	AA	496	A	C4-C5-C6	10.93	122.46	117.00
1	AA	75	G	C5-C6-O6	-10.93	122.04	128.60
1	AA	105	G	C5-C6-O6	-10.93	122.04	128.60
1	AA	1306	A	N1-C6-N6	10.93	125.16	118.60
22	AV	5	A	N1-C6-N6	10.92	125.16	118.60
35	BB	2226	C	C6-N1-C2	-10.92	115.93	120.30
1	AA	168	G	C4-C5-N7	-10.92	106.43	110.80
35	BB	180	G	N1-C2-N3	-10.92	117.35	123.90
35	BB	977	G	C5-C6-N1	-10.92	106.04	111.50
35	BB	1361	G	N3-C4-C5	-10.92	123.14	128.60
1	AA	710	G	C5-C6-O6	-10.92	122.05	128.60
1	AA	1366	C	C6-N1-C2	-10.92	115.93	120.30
35	BB	1366	A	C5-C6-N1	-10.92	112.24	117.70
35	BB	6	A	N1-C6-N6	10.91	125.15	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	129	A	N9-C4-C5	10.91	110.17	105.80
1	AA	1041	G	C6-C5-N7	-10.91	123.85	130.40
34	BA	72	G	C2-N3-C4	10.91	117.36	111.90
35	BB	2365	G	C5-C6-N1	-10.91	106.04	111.50
35	BB	2747	G	N3-C2-N2	10.91	127.54	119.90
35	BB	1413	A	N1-C6-N6	10.91	125.15	118.60
35	BB	2412	A	N9-C4-C5	10.91	110.16	105.80
35	BB	2430	A	C5-C6-N1	-10.91	112.25	117.70
33	B8	12	ARG	NE-CZ-NH1	10.91	125.75	120.30
34	BA	84	G	C5-C6-O6	-10.91	122.06	128.60
35	BB	627	A	C5'-C4'-O4'	10.91	122.19	109.10
35	BB	950	G	N1-C6-O6	10.91	126.44	119.90
35	BB	1650	A	C5-N7-C8	10.91	109.35	103.90
35	BB	2857	G	C5-C6-O6	-10.91	122.06	128.60
1	AA	255	G	N1-C6-O6	10.90	126.44	119.90
1	AA	1191	A	C5-C6-N1	-10.90	112.25	117.70
35	BB	2900	A	C6-C5-N7	-10.90	124.67	132.30
35	BB	1	G	N1-C6-O6	10.90	126.44	119.90
35	BB	776	G	C4-C5-N7	-10.90	106.44	110.80
35	BB	988	A	N1-C6-N6	10.90	125.14	118.60
35	BB	1367	A	C5-C6-N1	-10.90	112.25	117.70
35	BB	2886	A	O4'-C1'-N9	10.90	116.92	108.20
1	AA	695	A	N1-C6-N6	10.90	125.14	118.60
35	BB	1087	G	C5-C6-O6	-10.90	122.06	128.60
35	BB	2302	U	N3-C4-O4	10.90	127.03	119.40
1	AA	224	U	O4'-C1'-N1	10.89	116.92	108.20
22	AV	67	G	C5-C6-O6	-10.89	122.06	128.60
35	BB	1945	G	C8-N9-C4	-10.89	102.04	106.40
35	BB	1561	C	O4'-C1'-N1	10.89	116.92	108.20
1	AA	66	A	N1-C6-N6	10.89	125.14	118.60
1	AA	456	A	N1-C6-N6	10.89	125.13	118.60
1	AA	1504	G	C5-C6-O6	-10.89	122.07	128.60
35	BB	4	U	O4'-C1'-N1	10.89	116.91	108.20
35	BB	1767	G	C5-C6-N1	-10.89	106.06	111.50
35	BB	2550	G	C4-C5-C6	10.89	125.33	118.80
35	BB	835	C	N3-C4-C5	-10.89	117.55	121.90
35	BB	1292	G	N1-C6-O6	10.88	126.43	119.90
35	BB	1731	G	N1-C6-O6	10.88	126.43	119.90
1	AA	1248	A	O4'-C1'-N9	10.88	116.91	108.20
35	BB	1247	A	N1-C6-N6	10.88	125.13	118.60
35	BB	2831	G	O4'-C1'-N9	10.88	116.90	108.20
1	AA	1357	A	C5-N7-C8	10.88	109.34	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	663	G	N3-C2-N2	10.88	127.51	119.90
35	BB	938	G	C5-C6-O6	-10.88	122.07	128.60
35	BB	2433	A	C5-N7-C8	10.87	109.34	103.90
35	BB	2508	G	C5-C6-O6	-10.87	122.08	128.60
1	AA	815	A	C5-C6-N1	-10.87	112.26	117.70
1	AA	1057	G	N1-C6-O6	10.87	126.42	119.90
35	BB	221	A	N1-C6-N6	10.87	125.12	118.60
35	BB	2728	U	O4'-C1'-N1	10.87	116.89	108.20
35	BB	2763	G	C8-N9-C4	-10.87	102.05	106.40
35	BB	1938	A	N1-C6-N6	10.87	125.12	118.60
34	BA	89	U	O4'-C1'-N1	10.86	116.89	108.20
35	BB	2162	G	C2-N3-C4	10.87	117.33	111.90
1	AA	152	A	O4'-C1'-N9	10.86	116.89	108.20
35	BB	1933	G	N1-C6-O6	10.86	126.42	119.90
35	BB	2888	C	O4'-C1'-N1	10.86	116.89	108.20
1	AA	43	C	N3-C4-C5	-10.86	117.56	121.90
1	AA	303	A	C5-C6-N6	-10.86	115.01	123.70
35	BB	1247	A	C8-N9-C4	-10.86	101.46	105.80
35	BB	1160	G	C5-C6-O6	-10.86	122.08	128.60
35	BB	2789	C	C4-C5-C6	10.86	122.83	117.40
1	AA	836	G	N1-C6-O6	10.86	126.41	119.90
1	AA	1292	G	C5-C6-O6	-10.86	122.09	128.60
35	BB	1442	U	O4'-C1'-N1	10.86	116.89	108.20
35	BB	1939	U	N3-C4-O4	10.86	127.00	119.40
35	BB	1134	A	N1-C2-N3	10.85	134.72	129.30
1	AA	750	C	O4'-C1'-N1	10.85	116.88	108.20
35	BB	696	G	N1-C2-N3	-10.85	117.39	123.90
35	BB	1844	C	O4'-C1'-N1	10.85	116.88	108.20
1	AA	299	G	C5-C6-O6	-10.85	122.09	128.60
1	AA	1074	G	N3-C2-N2	10.85	127.49	119.90
1	AA	1449	C	N3-C4-C5	-10.85	117.56	121.90
35	BB	217	A	C5-C6-N6	-10.85	115.02	123.70
35	BB	2330	G	C6-C5-N7	-10.85	123.89	130.40
35	BB	160	A	C5-C6-N6	-10.84	115.03	123.70
35	BB	1468	U	C2-N3-C4	-10.84	120.50	127.00
35	BB	2409	G	C6-C5-N7	-10.84	123.89	130.40
35	BB	2444	G	C5-C6-N1	-10.84	106.08	111.50
1	AA	1302	C	N1-C2-O2	10.84	125.40	118.90
35	BB	1594	U	O4'-C1'-N1	10.84	116.87	108.20
1	AA	633	G	C4-C5-N7	10.84	115.14	110.80
1	AA	716	A	C4-C5-C6	10.84	122.42	117.00
1	AA	725	G	C2-N3-C4	10.84	117.32	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2042	A	C5-C6-N1	-10.84	112.28	117.70
1	AA	527	G	N1-C6-O6	10.84	126.40	119.90
1	AA	1206	G	O4'-C1'-N9	10.84	116.87	108.20
35	BB	178	G	N9-C4-C5	-10.84	101.06	105.40
35	BB	1928	A	C4-C5-N7	-10.84	105.28	110.70
1	AA	149	A	C5-N7-C8	10.83	109.32	103.90
1	AA	226	G	C4-C5-N7	-10.83	106.47	110.80
35	BB	936	A	N7-C8-N9	-10.83	108.38	113.80
1	AA	192	A	C2-N3-C4	-10.83	105.19	110.60
35	BB	788	A	C5-C6-N1	-10.83	112.28	117.70
1	AA	1220	G	C5-C6-O6	-10.83	122.10	128.60
1	AA	1497	G	C5-C6-O6	-10.83	122.10	128.60
35	BB	347	A	C5-C6-N6	-10.83	115.04	123.70
35	BB	2579	C	N3-C4-N4	10.83	125.58	118.00
35	BB	1418	G	C5-C6-O6	-10.83	122.10	128.60
35	BB	1984	G	O4'-C1'-N9	10.83	116.86	108.20
35	BB	2003	A	C5-N7-C8	10.83	109.31	103.90
1	AA	1277	C	O4'-C1'-N1	10.83	116.86	108.20
35	BB	1026	G	N9-C4-C5	-10.83	101.07	105.40
35	BB	2048	G	N1-C2-N3	-10.83	117.40	123.90
1	AA	1192	C	O4'-C1'-N1	10.83	116.86	108.20
1	AA	1487	G	N1-C6-O6	10.82	126.39	119.90
35	BB	670	A	P-O3'-C3'	10.82	132.68	119.70
35	BB	1079	C	O4'-C1'-N1	10.82	116.86	108.20
35	BB	2686	G	N1-C6-O6	10.82	126.39	119.90
1	AA	172	A	N9-C4-C5	10.82	110.13	105.80
35	BB	1256	G	N3-C4-C5	-10.82	123.19	128.60
1	AA	769	G	O4'-C1'-N9	10.81	116.85	108.20
1	AA	1496	C	C6-N1-C2	-10.81	115.97	120.30
35	BB	392	U	C5-C6-N1	10.81	128.11	122.70
35	BB	75	G	C5-C6-O6	-10.81	122.11	128.60
35	BB	1733	G	N3-C2-N2	10.81	127.47	119.90
35	BB	2225	A	C4-C5-C6	10.81	122.40	117.00
35	BB	2075	U	C5-C4-O4	10.81	132.38	125.90
1	AA	1201	A	N1-C6-N6	10.80	125.08	118.60
1	AA	711	G	C5-C6-O6	-10.80	122.12	128.60
1	AA	994	A	C5-C6-N1	-10.80	112.30	117.70
1	AA	484	G	N3-C2-N2	10.80	127.46	119.90
1	AA	1215	G	C5-C6-O6	-10.80	122.12	128.60
1	AA	1468	A	C4-C5-C6	10.80	122.40	117.00
35	BB	159	G	C5-C6-N1	-10.79	106.10	111.50
36	BC	79	ARG	NE-CZ-NH1	10.79	125.70	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	66	A	N1-C6-N6	10.79	125.08	118.60
35	BB	283	G	C4-C5-N7	-10.79	106.48	110.80
35	BB	2430	A	C6-C5-N7	-10.79	124.75	132.30
39	BF	29	ARG	NE-CZ-NH2	10.79	125.70	120.30
1	AA	899	C	N3-C4-C5	-10.79	117.58	121.90
35	BB	2009	A	N1-C6-N6	10.79	125.07	118.60
34	BA	101	A	N1-C6-N6	10.79	125.07	118.60
1	AA	874	G	N1-C6-O6	10.78	126.37	119.90
35	BB	2542	A	C5-C6-N1	-10.78	112.31	117.70
35	BB	1931	U	O4'-C1'-N1	10.78	116.83	108.20
35	BB	52	A	O4'-C1'-N9	10.78	116.82	108.20
35	BB	393	C	O4'-C1'-N1	10.78	116.83	108.20
35	BB	551	G	N1-C6-O6	10.78	126.37	119.90
35	BB	2560	A	C8-N9-C4	-10.78	101.49	105.80
1	AA	419	C	O4'-C1'-N1	10.78	116.82	108.20
1	AA	1468	A	N1-C6-N6	10.78	125.07	118.60
1	AA	73	C	N3-C4-N4	10.78	125.54	118.00
1	AA	769	G	N3-C2-N2	10.78	127.44	119.90
35	BB	2700	A	C4-C5-C6	10.78	122.39	117.00
34	BA	41	G	N1-C6-O6	10.77	126.36	119.90
35	BB	503	A	C5-C6-N1	-10.77	112.31	117.70
35	BB	597	G	C5-N7-C8	10.77	109.69	104.30
35	BB	1807	G	C8-N9-C4	-10.77	102.09	106.40
35	BB	309	A	N1-C2-N3	10.77	134.69	129.30
35	BB	2660	A	C4-C5-C6	10.77	122.39	117.00
35	BB	2145	C	C6-N1-C1'	-10.77	107.88	120.80
35	BB	1389	G	N3-C2-N2	10.77	127.44	119.90
35	BB	1428	C	C6-N1-C2	10.77	124.61	120.30
1	AA	215	C	O4'-C1'-N1	10.77	116.81	108.20
35	BB	285	G	C8-N9-C4	-10.76	102.09	106.40
35	BB	1536	C	O4'-C1'-N1	10.76	116.81	108.20
35	BB	2661	G	N1-C6-O6	10.76	126.36	119.90
1	AA	669	G	C6-C5-N7	-10.76	123.94	130.40
1	AA	874	G	C8-N9-C4	-10.76	102.09	106.40
1	AA	936	C	C6-N1-C2	-10.76	116.00	120.30
35	BB	2071	A	N1-C6-N6	10.76	125.06	118.60
35	BB	470	A	C5-C6-N6	-10.76	115.09	123.70
1	AA	477	C	N3-C4-N4	10.76	125.53	118.00
1	AA	771	G	N7-C8-N9	-10.76	107.72	113.10
35	BB	896	A	C5-C6-N6	-10.76	115.09	123.70
35	BB	2086	U	C5-C4-O4	-10.76	119.45	125.90
1	AA	1163	A	N1-C6-N6	10.76	125.05	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1255	G	O4'-C1'-N9	10.76	116.80	108.20
35	BB	2602	A	O4'-C1'-N9	10.76	116.81	108.20
1	AA	204	G	N1-C6-O6	10.75	126.35	119.90
35	BB	1664	A	O4'-C1'-N9	10.75	116.80	108.20
35	BB	1835	G	C5-C6-O6	-10.75	122.15	128.60
35	BB	2072	C	N3-C4-N4	10.75	125.53	118.00
1	AA	1329	A	N1-C6-N6	10.75	125.05	118.60
35	BB	613	A	C5'-C4'-O4'	10.75	122.00	109.10
35	BB	1794	A	C5-N7-C8	10.75	109.28	103.90
1	AA	1170	A	N1-C6-N6	10.75	125.05	118.60
35	BB	2204	G	C8-N9-C4	10.75	110.70	106.40
1	AA	818	G	N1-C6-O6	10.75	126.35	119.90
35	BB	451	U	O4'-C1'-N1	10.75	116.80	108.20
35	BB	1027	A	N1-C2-N3	10.75	134.67	129.30
35	BB	1380	G	C4-C5-N7	10.75	115.10	110.80
35	BB	1497	U	O4'-C1'-N1	10.74	116.80	108.20
1	AA	296	U	O4'-C1'-N1	10.74	116.79	108.20
35	BB	1775	U	O4'-C1'-N1	10.74	116.79	108.20
1	AA	264	C	N3-C4-C5	-10.74	117.60	121.90
1	AA	1441	A	N9-C4-C5	10.74	110.10	105.80
35	BB	1899	A	N9-C4-C5	10.74	110.10	105.80
35	BB	2304	G	C5-C6-O6	-10.74	122.16	128.60
1	AA	21	G	N1-C6-O6	10.74	126.34	119.90
35	BB	1333	G	C5-N7-C8	10.74	109.67	104.30
35	BB	703	U	O4'-C1'-N1	10.74	116.79	108.20
35	BB	1835	G	N1-C6-O6	10.74	126.34	119.90
35	BB	1843	C	O4'-C1'-N1	10.74	116.79	108.20
1	AA	346	G	C5-C6-O6	-10.73	122.16	128.60
1	AA	1055	A	N1-C2-N3	10.73	134.67	129.30
35	BB	1507	C	C5-C6-N1	10.73	126.37	121.00
35	BB	2395	C	O4'-C1'-N1	10.73	116.79	108.20
35	BB	2698	U	O4'-C1'-N1	10.73	116.79	108.20
35	BB	1223	G	N1-C6-O6	10.73	126.34	119.90
1	AA	829	G	O4'-C1'-N9	10.73	116.78	108.20
35	BB	1345	C	N3-C4-N4	10.73	125.51	118.00
1	AA	50	A	C8-N9-C4	-10.73	101.51	105.80
1	AA	792	A	C2-N3-C4	-10.73	105.23	110.60
1	AA	1144	G	O4'-C1'-N9	10.73	116.78	108.20
35	BB	130	C	N3-C4-C5	-10.73	117.61	121.90
35	BB	699	A	C6-C5-N7	-10.73	124.79	132.30
35	BB	1608	A	C6-C5-N7	-10.73	124.79	132.30
35	BB	2215	C	C6-N1-C2	10.73	124.59	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2463	C	C5-C6-N1	10.73	126.36	121.00
35	BB	103	A	N1-C6-N6	10.72	125.03	118.60
35	BB	666	A	C4-C5-C6	10.72	122.36	117.00
35	BB	1105	U	O4'-C1'-N1	10.72	116.78	108.20
35	BB	2083	G	N9-C4-C5	10.72	109.69	105.40
1	AA	1413	A	N1-C2-N3	10.72	134.66	129.30
35	BB	1533	C	O4'-C1'-N1	10.72	116.78	108.20
1	AA	1452	C	C2-N3-C4	10.72	125.26	119.90
35	BB	1632	A	N9-C4-C5	10.72	110.09	105.80
1	AA	425	G	C5-C6-O6	-10.72	122.17	128.60
35	BB	1094	U	C5-C4-O4	10.72	132.33	125.90
35	BB	1855	U	C5-C6-N1	10.72	128.06	122.70
35	BB	2729	G	C4-C5-N7	10.72	115.09	110.80
35	BB	2872	A	C5-N7-C8	10.72	109.26	103.90
35	BB	1067	A	C5-N7-C8	10.71	109.26	103.90
35	BB	2862	G	N1-C6-O6	10.72	126.33	119.90
35	BB	2463	C	N3-C4-N4	10.71	125.50	118.00
1	AA	156	C	N3-C4-N4	10.71	125.50	118.00
1	AA	915	A	C5-C6-N6	-10.71	115.13	123.70
35	BB	899	A	C2-N3-C4	-10.71	105.25	110.60
35	BB	904	G	C5-C6-O6	-10.71	122.17	128.60
35	BB	323	C	O4'-C1'-N1	10.71	116.77	108.20
35	BB	432	A	C5-C6-N1	-10.71	112.35	117.70
35	BB	1549	A	C5-C6-N1	-10.71	112.35	117.70
35	BB	1936	A	N9-C4-C5	10.71	110.08	105.80
35	BB	104	A	C5-N7-C8	10.71	109.25	103.90
35	BB	116	C	O4'-C1'-N1	10.70	116.76	108.20
35	BB	2030	A	C4-C5-C6	10.70	122.35	117.00
1	AA	1318	A	C5-C6-N6	-10.70	115.14	123.70
35	BB	230	G	C4-C5-N7	10.70	115.08	110.80
35	BB	1046	A	N1-C6-N6	10.70	125.02	118.60
35	BB	1236	G	N1-C6-O6	10.70	126.32	119.90
35	BB	2712	C	O4'-C1'-N1	10.70	116.76	108.20
35	BB	1577	C	O4'-C1'-N1	10.70	116.76	108.20
35	BB	2712	C	N1-C2-N3	-10.70	111.71	119.20
1	AA	1040	U	N3-C4-O4	10.70	126.89	119.40
34	BA	112	G	O4'-C1'-N9	10.70	116.76	108.20
1	AA	1280	A	C4-C5-C6	10.70	122.35	117.00
34	BA	17	C	O4'-C1'-N1	10.70	116.76	108.20
34	BA	32	U	O4'-C1'-N1	10.70	116.76	108.20
35	BB	63	A	C4-C5-N7	-10.70	105.35	110.70
35	BB	504	A	C5-N7-C8	10.70	109.25	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2592	G	N1-C6-O6	10.70	126.32	119.90
1	AA	1123	U	C5-C4-O4	-10.69	119.48	125.90
35	BB	186	G	C5-C6-O6	-10.69	122.19	128.60
35	BB	227	A	P-O3'-C3'	10.69	132.53	119.70
35	BB	679	C	C6-N1-C2	-10.69	116.03	120.30
35	BB	733	G	N1-C6-O6	10.69	126.31	119.90
1	AA	69	G	C6-C5-N7	-10.69	123.99	130.40
1	AA	422	C	C5-C6-N1	10.69	126.34	121.00
1	AA	436	C	O4'-C1'-N1	10.69	116.75	108.20
35	BB	2719	G	C5-C6-O6	-10.69	122.19	128.60
35	BB	2250	G	N1-C2-N3	-10.68	117.49	123.90
1	AA	198	G	N1-C6-O6	10.68	126.31	119.90
1	AA	379	C	O4'-C1'-N1	10.68	116.74	108.20
1	AA	792	A	N1-C2-N3	10.68	134.64	129.30
35	BB	410	G	N7-C8-N9	10.68	118.44	113.10
35	BB	2123	G	N1-C6-O6	10.68	126.31	119.90
34	BA	23	G	C6-C5-N7	-10.68	123.99	130.40
1	AA	1178	G	O4'-C1'-N9	10.68	116.74	108.20
35	BB	517	C	N3-C4-C5	-10.68	117.63	121.90
35	BB	2887	A	C8-N9-C4	-10.68	101.53	105.80
35	BB	478	A	C5-C6-N6	-10.67	115.16	123.70
1	AA	683	G	N1-C6-O6	10.67	126.30	119.90
35	BB	1210	G	C5-C6-O6	-10.67	122.20	128.60
35	BB	59	U	C5-C6-N1	10.67	128.03	122.70
35	BB	2811	G	N1-C2-N3	-10.67	117.50	123.90
35	BB	98	G	C4-C5-C6	10.67	125.20	118.80
35	BB	1074	G	C5-C6-O6	-10.67	122.20	128.60
1	AA	414	A	O4'-C1'-N9	10.66	116.73	108.20
35	BB	266	G	C5-C6-O6	-10.66	122.20	128.60
35	BB	473	G	O4'-C1'-N9	10.66	116.73	108.20
25	B0	45	PHE	CB-CG-CD1	10.66	128.26	120.80
35	BB	942	G	C2-N3-C4	10.66	117.23	111.90
35	BB	1800	C	N3-C4-C5	-10.66	117.64	121.90
35	BB	2513	A	N1-C6-N6	10.66	125.00	118.60
1	AA	1313	U	O4'-C1'-N1	10.66	116.73	108.20
1	AA	77	A	C5-C6-N1	-10.66	112.37	117.70
1	AA	738	C	C6-N1-C2	-10.66	116.04	120.30
1	AA	1093	A	N1-C6-N6	10.66	125.00	118.60
1	AA	1519	A	N1-C6-N6	10.66	125.00	118.60
35	BB	1833	C	C5-C4-N4	-10.66	112.74	120.20
35	BB	2184	A	N1-C6-N6	10.66	125.00	118.60
35	BB	66	C	O4'-C1'-N1	10.66	116.72	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1211	C	O4'-C1'-N1	10.66	116.73	108.20
35	BB	1422	G	C6-N1-C2	10.66	131.49	125.10
35	BB	1896	G	N1-C2-N3	-10.66	117.51	123.90
35	BB	2589	A	O4'-C1'-N9	10.66	116.73	108.20
35	BB	1615	C	C5-C6-N1	10.65	126.33	121.00
45	BL	2	ARG	NE-CZ-NH1	10.65	125.63	120.30
1	AA	743	A	N7-C8-N9	-10.65	108.47	113.80
2	AB	29	PHE	CB-CG-CD2	10.65	128.26	120.80
34	BA	105	G	O4'-C1'-N9	10.65	116.72	108.20
35	BB	420	C	C2-N3-C4	10.65	125.23	119.90
1	AA	780	A	C8-N9-C4	-10.65	101.54	105.80
34	BA	91	C	N3-C4-N4	10.65	125.45	118.00
35	BB	415	A	C5-N7-C8	10.65	109.22	103.90
35	BB	2549	G	C2-N3-C4	10.65	117.22	111.90
34	BA	104	A	C5-C6-N1	-10.65	112.38	117.70
35	BB	1231	U	C5-C4-O4	-10.65	119.51	125.90
1	AA	337	G	C5-C6-O6	-10.64	122.21	128.60
35	BB	2881	U	C5-C6-N1	10.64	128.02	122.70
35	BB	857	G	N1-C6-O6	10.64	126.28	119.90
36	BC	42	ARG	NE-CZ-NH1	10.64	125.62	120.30
35	BB	943	A	N9-C4-C5	10.64	110.06	105.80
1	AA	110	C	N3-C4-N4	10.64	125.45	118.00
1	AA	154	U	N3-C4-O4	10.64	126.85	119.40
35	BB	2753	A	N1-C6-N6	10.64	124.98	118.60
35	BB	231	A	N1-C6-N6	10.64	124.98	118.60
1	AA	1207	G	N1-C6-O6	10.63	126.28	119.90
35	BB	438	G	O4'-C1'-N9	10.63	116.71	108.20
35	BB	1137	G	C8-N9-C4	-10.63	102.15	106.40
35	BB	147	C	O4'-C1'-N1	10.63	116.71	108.20
35	BB	517	C	N3-C4-N4	10.63	125.44	118.00
35	BB	2101	A	O4'-C1'-N9	10.63	116.71	108.20
1	AA	864	A	C4-C5-C6	10.63	122.31	117.00
35	BB	2089	C	O4'-C1'-N1	10.63	116.70	108.20
1	AA	473	U	O4'-C1'-N1	10.63	116.70	108.20
35	BB	2267	A	C5-C6-N6	-10.63	115.20	123.70
1	AA	1197	A	C5-N7-C8	10.63	109.21	103.90
35	BB	10	A	C5-C6-N1	-10.63	112.39	117.70
35	BB	2336	A	C8-N9-C4	-10.63	101.55	105.80
1	AA	100	G	C5-C6-N1	-10.63	106.19	111.50
35	BB	28	A	O4'-C1'-N9	10.63	116.70	108.20
35	BB	266	G	N7-C8-N9	-10.63	107.79	113.10
1	AA	61	G	C5-C6-O6	-10.62	122.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1163	G	C8-N9-C4	10.62	110.65	106.40
35	BB	2328	A	C5-C6-N6	-10.62	115.20	123.70
1	AA	403	C	O4'-C1'-N1	10.62	116.70	108.20
35	BB	1	G	C5-C6-O6	-10.62	122.23	128.60
35	BB	1128	G	C3'-C2'-C1'	10.62	110.00	101.50
35	BB	1977	A	C5-C6-N6	-10.62	115.20	123.70
35	BB	2780	G	N1-C6-O6	10.62	126.27	119.90
35	BB	1235	G	N1-C6-O6	10.62	126.27	119.90
1	AA	836	G	O4'-C1'-N9	10.62	116.69	108.20
35	BB	81	G	C5-C6-O6	-10.62	122.23	128.60
35	BB	269	C	N3-C4-N4	10.62	125.43	118.00
35	BB	1547	C	N3-C4-C5	-10.62	117.65	121.90
35	BB	2409	G	C4-C5-N7	10.62	115.05	110.80
1	AA	267	C	O4'-C1'-N1	10.61	116.69	108.20
35	BB	626	A	C5-C6-N6	-10.61	115.21	123.70
35	BB	1606	C	O4'-C1'-N1	10.61	116.69	108.20
35	BB	2750	A	C5-N7-C8	10.61	109.20	103.90
1	AA	77	A	C4-C5-C6	10.61	122.30	117.00
1	AA	242	G	O4'-C1'-N9	10.61	116.69	108.20
35	BB	783	A	N1-C6-N6	10.61	124.97	118.60
35	BB	1024	G	N1-C6-O6	10.61	126.27	119.90
35	BB	1918	A	O4'-C1'-N9	10.61	116.69	108.20
1	AA	1080	A	C6-C5-N7	-10.61	124.88	132.30
34	BA	109	A	C5-C6-N6	-10.61	115.22	123.70
1	AA	116	A	C4-C5-C6	10.60	122.30	117.00
35	BB	1685	C	C4-C5-C6	10.60	122.70	117.40
1	AA	1066	C	C5-C6-N1	10.60	126.30	121.00
35	BB	1964	G	N1-C6-O6	10.60	126.26	119.90
1	AA	372	C	C6-N1-C2	-10.60	116.06	120.30
35	BB	1969	A	C5-C6-N1	-10.60	112.40	117.70
35	BB	2396	G	N1-C6-O6	10.60	126.26	119.90
35	BB	2611	C	C5-C6-N1	-10.60	115.70	121.00
35	BB	2670	A	N1-C6-N6	10.60	124.96	118.60
48	BO	2	ASP	CB-CG-OD1	10.60	127.83	118.30
1	AA	883	C	N3-C4-N4	10.59	125.42	118.00
1	AA	977	A	N9-C4-C5	10.59	110.04	105.80
35	BB	2735	G	O4'-C1'-N9	10.59	116.67	108.20
1	AA	1246	A	C8-N9-C4	-10.59	101.56	105.80
35	BB	549	G	O4'-C1'-N9	10.59	116.67	108.20
35	BB	1412	U	N3-C2-O2	-10.59	114.78	122.20
35	BB	1858	A	C4-C5-C6	10.59	122.30	117.00
35	BB	2357	G	C6-C5-N7	-10.59	124.05	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	221	C	C6-N1-C2	-10.59	116.06	120.30
35	BB	1134	A	C5-C6-N1	-10.59	112.41	117.70
35	BB	2033	A	C5-N7-C8	10.59	109.19	103.90
1	AA	286	C	C5-C4-N4	-10.59	112.79	120.20
35	BB	1208	C	O4'-C1'-N1	10.59	116.67	108.20
35	BB	1704	C	N3-C4-N4	10.59	125.41	118.00
35	BB	980	A	N1-C6-N6	10.58	124.95	118.60
50	BQ	47	ARG	NE-CZ-NH1	-10.58	115.01	120.30
1	AA	1299	A	C8-N9-C4	-10.58	101.57	105.80
34	BA	38	C	O4'-C1'-N1	10.58	116.67	108.20
35	BB	789	A	N1-C6-N6	10.58	124.95	118.60
35	BB	1331	G	O4'-C1'-N9	10.58	116.67	108.20
35	BB	1934	C	C5-C4-N4	-10.58	112.79	120.20
1	AA	1452	C	O4'-C1'-N1	10.58	116.66	108.20
35	BB	1733	G	N1-C6-O6	10.58	126.25	119.90
35	BB	2119	A	C5-C6-N6	-10.58	115.24	123.70
1	AA	395	C	C5-C4-N4	-10.58	112.80	120.20
1	AA	1006	G	N3-C2-N2	10.58	127.30	119.90
35	BB	182	A	C5-N7-C8	10.58	109.19	103.90
35	BB	879	G	N3-C2-N2	10.58	127.31	119.90
35	BB	1096	A	C5-C6-N1	-10.58	112.41	117.70
1	AA	649	A	C5-C6-N6	-10.57	115.24	123.70
35	BB	1277	G	O4'-C1'-N9	10.57	116.66	108.20
35	BB	1843	C	N3-C4-N4	10.57	125.40	118.00
35	BB	481	G	N1-C6-O6	10.57	126.24	119.90
35	BB	837	C	O4'-C1'-N1	10.57	116.66	108.20
35	BB	50	U	O4'-C1'-N1	10.57	116.66	108.20
35	BB	1142	A	N1-C6-N6	10.57	124.94	118.60
35	BB	1357	C	O4'-C1'-N1	10.57	116.65	108.20
35	BB	1823	G	N1-C6-O6	10.57	126.24	119.90
1	AA	146	G	O4'-C1'-N9	10.56	116.65	108.20
1	AA	224	U	N1-C2-N3	-10.56	108.56	114.90
1	AA	947	G	C5-C6-O6	-10.56	122.26	128.60
35	BB	177	G	C5-C6-O6	-10.56	122.26	128.60
35	BB	237	C	O4'-C1'-N1	10.56	116.65	108.20
35	BB	960	A	C4-C5-C6	10.56	122.28	117.00
35	BB	1021	A	N1-C2-N3	10.56	134.58	129.30
40	BG	150	TYR	CB-CG-CD1	-10.56	114.66	121.00
1	AA	490	C	C6-N1-C2	-10.56	116.08	120.30
34	BA	44	G	C5-C6-O6	-10.56	122.26	128.60
35	BB	635	C	N3-C4-N4	10.56	125.39	118.00
35	BB	974	G	C5-C6-O6	-10.56	122.26	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1496	A	N1-C2-N3	-10.56	124.02	129.30
35	BB	2224	G	C4-C5-C6	10.56	125.14	118.80
35	BB	2683	C	N3-C4-C5	-10.56	117.68	121.90
1	AA	1364	U	O4'-C1'-N1	10.56	116.65	108.20
35	BB	486	C	O4'-C1'-N1	10.56	116.65	108.20
35	BB	1701	A	C5-C6-N1	-10.56	112.42	117.70
35	BB	2653	U	O4'-C1'-N1	10.56	116.64	108.20
35	BB	2903	U	O4'-C1'-N1	10.56	116.64	108.20
1	AA	544	G	C6-C5-N7	-10.55	124.07	130.40
35	BB	706	A	N1-C6-N6	10.55	124.93	118.60
35	BB	969	G	C5-C6-O6	-10.55	122.27	128.60
35	BB	2380	C	C6-N1-C2	10.55	124.52	120.30
35	BB	2382	G	C4-C5-N7	10.55	115.02	110.80
35	BB	2361	G	N1-C2-N3	-10.55	117.57	123.90
35	BB	263	G	N1-C6-O6	10.55	126.23	119.90
35	BB	1103	A	C5-N7-C8	10.55	109.17	103.90
35	BB	1129	A	C4-C5-C6	10.55	122.27	117.00
35	BB	1358	G	O4'-C1'-N9	10.55	116.64	108.20
35	BB	1824	G	C5-C6-O6	-10.55	122.27	128.60
35	BB	2712	C	C2-N3-C4	10.55	125.17	119.90
1	AA	75	G	C5-C6-N1	-10.54	106.23	111.50
1	AA	1394	A	O4'-C1'-N9	10.54	116.64	108.20
1	AA	1452	C	N3-C4-N4	10.54	125.38	118.00
35	BB	1347	A	C4-C5-C6	10.55	122.27	117.00
35	BB	1500	G	C5-C6-O6	-10.54	122.27	128.60
35	BB	1997	C	O4'-C1'-N1	10.54	116.64	108.20
35	BB	2808	G	C5-C6-O6	-10.54	122.27	128.60
1	AA	493	A	C8-N9-C4	-10.54	101.58	105.80
1	AA	1210	C	O4'-C1'-N1	10.54	116.63	108.20
1	AA	807	A	N1-C6-N6	10.54	124.92	118.60
35	BB	664	G	N1-C6-O6	10.54	126.22	119.90
35	BB	1196	C	C2-N3-C4	10.54	125.17	119.90
35	BB	2736	A	N1-C6-N6	10.54	124.92	118.60
1	AA	293	G	N3-C4-N9	10.54	132.32	126.00
35	BB	198	C	O4'-C1'-N1	10.54	116.63	108.20
35	BB	559	G	N1-C6-O6	10.54	126.22	119.90
35	BB	1773	A	C5-N7-C8	10.54	109.17	103.90
35	BB	1371	G	C5-C6-O6	-10.54	122.28	128.60
35	BB	1670	C	O4'-C1'-N1	10.54	116.63	108.20
35	BB	918	A	C5-C6-N6	-10.53	115.27	123.70
35	BB	2003	A	O4'-C1'-N9	10.53	116.63	108.20
35	BB	2791	G	N3-C2-N2	10.53	127.27	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	279	A	C5-C6-N1	-10.53	112.44	117.70
35	BB	1067	A	O4'-C1'-N9	10.53	116.62	108.20
1	AA	577	G	C2-N3-C4	10.53	117.16	111.90
1	AA	1027	C	C5-C4-N4	-10.53	112.83	120.20
1	AA	1374	A	O4'-C1'-N9	10.53	116.62	108.20
1	AA	1473	G	N1-C6-O6	10.53	126.22	119.90
35	BB	362	A	C5-C6-N6	-10.53	115.28	123.70
1	AA	492	C	O4'-C1'-N1	10.53	116.62	108.20
35	BB	2800	A	N1-C6-N6	10.53	124.92	118.60
35	BB	203	A	C5-C6-N6	-10.53	115.28	123.70
35	BB	294	A	N1-C6-N6	10.53	124.92	118.60
35	BB	2230	G	N1-C6-O6	10.53	126.22	119.90
35	BB	1508	A	O4'-C1'-N9	10.53	116.62	108.20
1	AA	213	G	C5-C6-O6	-10.52	122.29	128.60
19	AS	31	ARG	NE-CZ-NH2	-10.52	115.04	120.30
35	BB	261	G	N9-C4-C5	-10.52	101.19	105.40
4	AD	110	ARG	NE-CZ-NH1	-10.52	115.04	120.30
34	BA	23	G	N1-C6-O6	10.52	126.21	119.90
35	BB	1378	A	C5-N7-C8	10.52	109.16	103.90
35	BB	1937	A	N1-C6-N6	10.52	124.91	118.60
1	AA	28	A	O4'-C1'-N9	10.52	116.61	108.20
35	BB	2471	A	C4-C5-C6	10.51	122.26	117.00
35	BB	2675	A	C4-C5-C6	10.51	122.26	117.00
1	AA	194	C	N3-C4-N4	10.51	125.36	118.00
35	BB	908	C	O4'-C1'-N1	10.51	116.61	108.20
35	BB	917	A	C6-C5-N7	-10.51	124.94	132.30
35	BB	1669	A	C5-C6-N1	-10.51	112.44	117.70
35	BB	2263	C	O4'-C1'-N1	10.51	116.61	108.20
1	AA	672	U	O4'-C1'-N1	10.51	116.61	108.20
35	BB	1309	G	C4-C5-C6	10.51	125.11	118.80
35	BB	1571	A	C2-N3-C4	-10.51	105.35	110.60
35	BB	2112	G	N1-C6-O6	10.51	126.20	119.90
35	BB	2392	A	C5-C6-N1	-10.51	112.45	117.70
1	AA	911	U	O4'-C1'-N1	10.50	116.60	108.20
35	BB	92	U	O4'-C1'-N1	10.50	116.60	108.20
35	BB	283	G	N3-C4-C5	-10.50	123.35	128.60
1	AA	1294	G	C8-N9-C4	-10.50	102.20	106.40
1	AA	908	A	C4-C5-C6	10.50	122.25	117.00
35	BB	283	G	O4'-C1'-N9	10.50	116.60	108.20
35	BB	1281	G	C5-C6-O6	-10.50	122.30	128.60
35	BB	2304	G	N1-C6-O6	10.50	126.20	119.90
1	AA	507	C	N3-C4-C5	-10.49	117.70	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1196	A	C4-C5-C6	10.49	122.25	117.00
1	AA	1432	G	O4'-C1'-N9	10.49	116.60	108.20
35	BB	2042	A	C4-C5-C6	10.49	122.25	117.00
35	BB	2175	C	C2-N3-C4	10.49	125.15	119.90
1	AA	696	A	O4'-C1'-N9	10.49	116.59	108.20
1	AA	1026	G	N1-C6-O6	10.49	126.20	119.90
35	BB	2063	C	C6-N1-C2	10.49	124.50	120.30
35	BB	184	C	N1-C2-O2	10.49	125.19	118.90
35	BB	1940	U	O4'-C1'-N1	10.49	116.59	108.20
1	AA	502	A	C5-C6-N6	-10.49	115.31	123.70
35	BB	2467	C	O4'-C1'-N1	10.49	116.59	108.20
1	AA	1050	G	C5-C6-O6	-10.49	122.31	128.60
1	AA	1331	G	N3-C4-C5	-10.49	123.36	128.60
35	BB	604	G	O4'-C1'-N9	10.49	116.59	108.20
1	AA	156	C	C6-N1-C2	-10.49	116.11	120.30
1	AA	192	A	C5-C6-N1	-10.49	112.46	117.70
1	AA	337	G	O4'-C1'-N9	10.49	116.59	108.20
35	BB	19	A	C4-C5-N7	-10.49	105.46	110.70
35	BB	1381	G	C5-C6-O6	-10.49	122.31	128.60
35	BB	1388	G	N1-C6-O6	10.48	126.19	119.90
35	BB	2381	A	C5-C6-N6	-10.48	115.31	123.70
1	AA	1163	A	C6-C5-N7	-10.48	124.96	132.30
1	AA	1416	G	N1-C6-O6	10.48	126.19	119.90
1	AA	1289	A	N1-C6-N6	10.48	124.89	118.60
34	BA	53	A	O4'-C1'-N9	10.48	116.58	108.20
35	BB	981	A	N1-C6-N6	10.48	124.89	118.60
35	BB	329	G	N1-C6-O6	10.48	126.19	119.90
35	BB	1902	C	C5-C6-N1	10.48	126.24	121.00
35	BB	1985	C	N3-C4-C5	-10.48	117.71	121.90
35	BB	2015	A	N1-C2-N3	10.48	134.54	129.30
35	BB	2116	G	N1-C6-O6	10.48	126.19	119.90
35	BB	2627	G	C4-C5-N7	-10.48	106.61	110.80
1	AA	1182	G	C5-C6-O6	-10.47	122.32	128.60
35	BB	1823	G	C5-C6-O6	-10.47	122.32	128.60
35	BB	2227	A	C5-C6-N1	-10.47	112.46	117.70
1	AA	1496	C	N3-C4-N4	10.47	125.33	118.00
34	BA	69	G	O4'-C1'-N9	10.47	116.58	108.20
35	BB	1649	G	O4'-C1'-N9	10.47	116.57	108.20
35	BB	2524	G	O4'-C1'-N9	10.47	116.57	108.20
1	AA	1018	G	N3-C2-N2	10.46	127.22	119.90
35	BB	2239	G	N1-C2-N2	-10.46	106.78	116.20
35	BB	2778	A	N1-C6-N6	10.46	124.88	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	376	G	N3-C2-N2	10.46	127.22	119.90
35	BB	2208	C	N3-C4-N4	10.46	125.32	118.00
35	BB	2748	A	C5-C6-N1	-10.46	112.47	117.70
1	AA	260	G	O4'-C1'-N9	10.46	116.57	108.20
1	AA	26	A	C4-C5-N7	-10.46	105.47	110.70
35	BB	2268	A	N1-C6-N6	10.46	124.87	118.60
1	AA	654	G	N9-C4-C5	-10.45	101.22	105.40
1	AA	1435	G	C6-C5-N7	-10.45	124.13	130.40
1	AA	1457	G	N1-C6-O6	10.46	126.17	119.90
35	BB	245	G	C5-C6-O6	-10.45	122.33	128.60
35	BB	825	A	C4-C5-C6	10.45	122.23	117.00
1	AA	166	U	O4'-C1'-N1	10.45	116.56	108.20
1	AA	657	U	N3-C4-O4	10.45	126.72	119.40
1	AA	708	C	O4'-C1'-N1	10.45	116.56	108.20
1	AA	1201	A	C4-C5-C6	10.45	122.23	117.00
1	AA	1215	G	N9-C4-C5	10.45	109.58	105.40
34	BA	29	A	O4'-C1'-N9	10.45	116.56	108.20
35	BB	2604	U	O4'-C1'-N1	10.45	116.56	108.20
35	BB	2755	C	C6-N1-C2	-10.45	116.12	120.30
1	AA	1375	A	C4-C5-C6	10.45	122.22	117.00
1	AA	64	G	C8-N9-C4	-10.45	102.22	106.40
1	AA	160	A	N1-C2-N3	10.45	134.52	129.30
35	BB	750	A	N1-C6-N6	10.45	124.87	118.60
35	BB	1743	G	C6-N1-C2	10.45	131.37	125.10
35	BB	1749	A	C4-C5-C6	10.45	122.22	117.00
35	BB	2862	G	C5-C6-N1	-10.45	106.28	111.50
1	AA	279	A	P-O3'-C3'	10.45	132.23	119.70
35	BB	1847	A	N1-C6-N6	10.44	124.87	118.60
35	BB	2329	U	C2-N3-C4	-10.44	120.73	127.00
35	BB	2659	G	N1-C6-O6	10.45	126.17	119.90
1	AA	282	A	C6-N1-C2	-10.44	112.33	118.60
1	AA	1078	U	O4'-C1'-N1	10.44	116.56	108.20
35	BB	1401	G	C5-C6-O6	-10.44	122.33	128.60
35	BB	99	U	P-O3'-C3'	10.44	132.23	119.70
35	BB	2748	A	C8-N9-C4	10.44	109.98	105.80
35	BB	2184	A	C5-C6-N1	-10.44	112.48	117.70
35	BB	2169	A	C8-N9-C4	-10.44	101.62	105.80
35	BB	2727	A	C8-N9-C4	-10.44	101.62	105.80
1	AA	751	U	O4'-C1'-N1	10.44	116.55	108.20
1	AA	1456	A	C5-C6-N6	-10.44	115.35	123.70
35	BB	2086	U	N3-C4-O4	10.44	126.71	119.40
35	BB	217	A	C5-C6-N1	-10.43	112.48	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	301	G	N1-C6-O6	10.43	126.16	119.90
35	BB	504	A	N1-C2-N3	10.43	134.52	129.30
35	BB	2574	G	N1-C6-O6	10.43	126.16	119.90
35	BB	182	A	N9-C4-C5	10.43	109.97	105.80
1	AA	925	G	N1-C6-O6	10.43	126.16	119.90
1	AA	1324	A	N1-C6-N6	10.43	124.86	118.60
35	BB	1319	C	O4'-C1'-N1	10.43	116.54	108.20
35	BB	2850	A	N1-C6-N6	10.43	124.86	118.60
1	AA	8	A	O4'-C1'-N9	10.42	116.54	108.20
1	AA	88	U	O4'-C1'-N1	10.42	116.54	108.20
35	BB	565	C	O4'-C1'-N1	10.42	116.54	108.20
1	AA	607	A	N1-C6-N6	10.42	124.85	118.60
35	BB	1210	G	N3-C2-N2	10.42	127.20	119.90
1	AA	1203	C	O4'-C1'-N1	10.42	116.53	108.20
35	BB	972	A	C5-C6-N1	-10.42	112.49	117.70
35	BB	1048	A	C5-C6-N6	-10.42	115.37	123.70
35	BB	1586	A	C8-N9-C4	-10.42	101.63	105.80
35	BB	1825	U	O4'-C1'-N1	10.42	116.53	108.20
1	AA	984	C	C5-C4-N4	-10.41	112.91	120.20
35	BB	121	G	N1-C2-N3	-10.41	117.65	123.90
35	BB	458	G	N1-C2-N3	-10.41	117.65	123.90
35	BB	2407	A	C5-N7-C8	10.41	109.11	103.90
1	AA	741	G	C5-C6-O6	-10.41	122.36	128.60
1	AA	372	C	N3-C4-C5	-10.41	117.74	121.90
35	BB	873	C	C5-C6-N1	-10.41	115.80	121.00
1	AA	274	A	C5-C6-N1	-10.40	112.50	117.70
1	AA	1262	C	O4'-C1'-N1	10.40	116.52	108.20
1	AA	1285	A	C5-C6-N6	-10.40	115.38	123.70
1	AA	1510	C	O4'-C1'-N1	10.40	116.52	108.20
35	BB	291	G	C6-C5-N7	-10.40	124.16	130.40
35	BB	604	G	N1-C6-O6	10.40	126.14	119.90
1	AA	973	G	C2-N3-C4	10.40	117.10	111.90
35	BB	1070	A	C4-C5-C6	10.40	122.20	117.00
35	BB	1785	A	N1-C6-N6	10.40	124.84	118.60
35	BB	2078	C	O4'-C1'-N1	10.40	116.52	108.20
1	AA	655	A	C5-C6-N1	-10.40	112.50	117.70
35	BB	240	C	C5-C6-N1	10.40	126.20	121.00
35	BB	1437	C	O4'-C1'-N1	10.40	116.52	108.20
35	BB	1940	U	C5-C6-N1	10.40	127.90	122.70
35	BB	2468	A	C5-C6-N1	-10.39	112.50	117.70
35	BB	2777	G	N1-C2-N3	-10.39	117.66	123.90
35	BB	250	G	N9-C4-C5	-10.39	101.24	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2300	C	O4'-C1'-N1	10.39	116.51	108.20
35	BB	22	C	N3-C4-C5	-10.39	117.74	121.90
35	BB	1989	G	N7-C8-N9	10.39	118.29	113.10
35	BB	2771	C	C6-N1-C2	-10.39	116.14	120.30
35	BB	2825	G	C5-C6-O6	-10.39	122.37	128.60
1	AA	541	G	N1-C6-O6	10.38	126.13	119.90
35	BB	1787	A	N1-C6-N6	10.39	124.83	118.60
35	BB	784	G	C5-C6-O6	-10.38	122.37	128.60
34	BA	102	G	N1-C2-N2	-10.38	106.86	116.20
35	BB	2370	G	O4'-C1'-N9	10.38	116.51	108.20
1	AA	747	A	C5-C6-N6	-10.38	115.40	123.70
35	BB	880	G	C5-C6-N1	-10.38	106.31	111.50
35	BB	2448	A	C4-C5-C6	10.38	122.19	117.00
35	BB	2531	A	C5-N7-C8	10.38	109.09	103.90
1	AA	642	A	C6-C5-N7	-10.38	125.04	132.30
1	AA	364	A	C4-C5-C6	10.38	122.19	117.00
1	AA	1534	A	N1-C2-N3	10.38	134.49	129.30
20	AT	28	ARG	NE-CZ-NH2	-10.38	115.11	120.30
35	BB	857	G	O4'-C1'-N9	10.38	116.50	108.20
35	BB	999	U	O4'-C1'-N1	10.38	116.50	108.20
1	AA	937	A	C8-N9-C4	-10.37	101.65	105.80
35	BB	1090	A	C4-C5-C6	10.37	122.19	117.00
35	BB	1573	G	N1-C6-O6	10.37	126.12	119.90
1	AA	74	A	C4-C5-C6	10.37	122.19	117.00
35	BB	1364	G	N1-C6-O6	10.37	126.12	119.90
35	BB	2650	U	O4'-C1'-N1	10.37	116.50	108.20
1	AA	417	G	C5-C6-O6	-10.37	122.38	128.60
1	AA	781	A	C5-C6-N6	-10.37	115.41	123.70
1	AA	1107	C	O4'-C1'-N1	10.37	116.49	108.20
35	BB	1184	U	O4'-C1'-N1	10.37	116.49	108.20
1	AA	432	A	C8-N9-C4	-10.36	101.66	105.80
1	AA	1003	G	N1-C6-O6	10.36	126.12	119.90
1	AA	1290	G	C5-C6-O6	-10.36	122.38	128.60
1	AA	1322	C	C6-N1-C2	-10.36	116.16	120.30
35	BB	145	C	N3-C4-N4	10.36	125.25	118.00
35	BB	432	A	N1-C6-N6	10.36	124.82	118.60
1	AA	459	A	N1-C6-N6	10.36	124.81	118.60
1	AA	1473	G	C5-C6-O6	-10.36	122.39	128.60
35	BB	1345	C	N3-C4-C5	-10.36	117.76	121.90
35	BB	1681	G	N1-C6-O6	10.36	126.11	119.90
35	BB	2747	G	N1-C6-O6	10.36	126.12	119.90
36	BC	82	TYR	CB-CG-CD2	10.36	127.22	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1367	A	C4-C5-C6	10.36	122.18	117.00
35	BB	1413	A	C4-C5-C6	10.36	122.18	117.00
35	BB	2183	A	C6-C5-N7	-10.36	125.05	132.30
35	BB	2725	A	C5-C6-N1	-10.36	112.52	117.70
1	AA	605	U	O4'-C1'-N1	10.35	116.48	108.20
1	AA	631	C	C5-C4-N4	-10.35	112.95	120.20
35	BB	1737	G	C6-C5-N7	-10.35	124.19	130.40
35	BB	351	C	C4-C5-C6	10.35	122.58	117.40
1	AA	193	C	C5-C4-N4	-10.35	112.95	120.20
35	BB	86	G	N3-C2-N2	10.35	127.14	119.90
35	BB	2359	C	N3-C4-C5	-10.35	117.76	121.90
35	BB	2792	A	C5-C6-N6	-10.35	115.42	123.70
1	AA	928	G	O4'-C1'-N9	10.34	116.47	108.20
35	BB	2042	A	C5-C6-N6	-10.34	115.42	123.70
35	BB	2455	G	O4'-C1'-N9	10.34	116.47	108.20
55	BW	19	ARG	NE-CZ-NH2	-10.34	115.13	120.30
1	AA	432	A	C4-C5-N7	-10.34	105.53	110.70
1	AA	794	A	N1-C6-N6	10.34	124.80	118.60
35	BB	1237	A	N1-C2-N3	-10.34	124.13	129.30
35	BB	1614	A	N1-C6-N6	10.34	124.80	118.60
35	BB	2116	G	N9-C4-C5	10.34	109.54	105.40
35	BB	1444	G	C6-N1-C2	-10.34	118.90	125.10
1	AA	174	A	N1-C6-N6	10.34	124.80	118.60
4	AD	127	ARG	NE-CZ-NH2	-10.34	115.13	120.30
35	BB	728	G	C5-C6-O6	-10.33	122.40	128.60
35	BB	2520	C	N3-C4-N4	10.33	125.23	118.00
1	AA	28	A	C5-C6-N1	-10.33	112.53	117.70
35	BB	2281	A	C2-N3-C4	-10.33	105.44	110.60
35	BB	2520	C	C2-N3-C4	10.33	125.06	119.90
35	BB	144	A	N1-C6-N6	10.33	124.80	118.60
35	BB	716	A	O4'-C1'-N9	10.33	116.46	108.20
35	BB	1949	G	C4-C5-C6	10.32	125.00	118.80
1	AA	443	C	C6-N1-C2	-10.32	116.17	120.30
1	AA	1271	A	N1-C6-N6	10.32	124.79	118.60
35	BB	2247	A	C8-N9-C4	10.32	109.93	105.80
35	BB	2632	A	C5-N7-C8	10.32	109.06	103.90
1	AA	26	A	C5-N7-C8	10.32	109.06	103.90
1	AA	676	A	C5-N7-C8	10.32	109.06	103.90
35	BB	176	A	O4'-C1'-N9	10.32	116.46	108.20
35	BB	1796	U	N3-C4-C5	-10.32	108.41	114.60
35	BB	2741	A	N1-C2-N3	10.32	134.46	129.30
1	AA	22	G	C5-C6-N1	-10.32	106.34	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	786	G	C5-C6-O6	-10.32	122.41	128.60
35	BB	924	G	N3-C4-N9	10.32	132.19	126.00
35	BB	1852	U	N1-C2-O2	-10.32	115.58	122.80
35	BB	2121	G	N3-C4-C5	10.32	133.76	128.60
36	BC	79	ARG	NE-CZ-NH2	-10.32	115.14	120.30
43	BJ	95	ARG	NE-CZ-NH2	-10.32	115.14	120.30
1	AA	507	C	C2-N3-C4	10.31	125.06	119.90
1	AA	919	A	N9-C4-C5	-10.31	101.67	105.80
1	AA	1365	G	N1-C6-O6	10.31	126.09	119.90
35	BB	698	C	C6-N1-C2	-10.31	116.17	120.30
35	BB	2019	A	N1-C2-N3	10.31	134.46	129.30
35	BB	759	G	C6-C5-N7	-10.31	124.21	130.40
35	BB	2694	G	C5-C6-O6	-10.31	122.41	128.60
35	BB	2826	A	C4-C5-C6	10.31	122.16	117.00
1	AA	500	G	C8-N9-C4	-10.31	102.28	106.40
35	BB	2349	G	O4'-C1'-N9	10.31	116.45	108.20
35	BB	2692	G	N1-C6-O6	10.31	126.09	119.90
1	AA	413	G	N3-C2-N2	10.31	127.12	119.90
1	AA	264	C	N1-C2-O2	10.31	125.08	118.90
35	BB	713	G	N9-C4-C5	-10.31	101.28	105.40
35	BB	1450	G	C5-C6-O6	-10.31	122.42	128.60
1	AA	1001	C	N3-C4-N4	10.31	125.21	118.00
1	AA	235	C	O4'-C1'-N1	10.30	116.44	108.20
1	AA	575	G	C5'-C4'-O4'	10.30	121.46	109.10
35	BB	1077	A	C4-C5-C6	10.30	122.15	117.00
1	AA	1246	A	N9-C4-C5	10.30	109.92	105.80
1	AA	354	G	C2-N3-C4	10.30	117.05	111.90
1	AA	1048	G	C5-C6-O6	-10.30	122.42	128.60
35	BB	1414	C	N3-C4-C5	-10.30	117.78	121.90
1	AA	474	G	O4'-C1'-N9	10.30	116.44	108.20
35	BB	1845	G	O4'-C1'-N9	10.30	116.44	108.20
35	BB	2142	A	N7-C8-N9	10.29	118.95	113.80
35	BB	2417	C	O4'-C1'-N1	10.30	116.44	108.20
35	BB	2550	G	N3-C4-C5	-10.29	123.45	128.60
35	BB	2766	A	N3-C4-C5	-10.29	119.59	126.80
35	BB	1935	G	C8-N9-C4	-10.29	102.28	106.40
1	AA	679	C	N3-C4-C5	-10.29	117.78	121.90
1	AA	1247	U	O4'-C1'-N1	10.29	116.43	108.20
35	BB	2377	A	C5-C6-N1	-10.29	112.55	117.70
35	BB	2316	G	O4'-C1'-N9	10.29	116.43	108.20
35	BB	2734	A	C5-C6-N6	-10.29	115.47	123.70
1	AA	752	G	N3-C2-N2	10.29	127.10	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1104	G	C5-C6-O6	-10.29	122.43	128.60
35	BB	134	G	O4'-C1'-N9	10.29	116.43	108.20
35	BB	722	A	C4-C5-N7	-10.29	105.56	110.70
35	BB	1049	C	C5-C6-N1	10.29	126.14	121.00
35	BB	1274	A	C8-N9-C4	10.29	109.92	105.80
35	BB	1738	G	C8-N9-C4	10.29	110.52	106.40
35	BB	2053	G	N7-C8-N9	-10.29	107.96	113.10
1	AA	633	G	C6-C5-N7	-10.29	124.23	130.40
34	BA	13	G	C5-C6-O6	-10.29	122.43	128.60
35	BB	1154	G	N1-C6-O6	10.29	126.07	119.90
35	BB	1640	A	N7-C8-N9	-10.29	108.66	113.80
35	BB	2069	G	C5-C6-O6	-10.29	122.43	128.60
1	AA	124	C	N3-C4-C5	-10.28	117.79	121.90
35	BB	1248	G	N9-C4-C5	-10.29	101.29	105.40
35	BB	2570	G	N3-C4-N9	-10.29	119.83	126.00
35	BB	768	G	N1-C6-O6	10.28	126.07	119.90
35	BB	2270	A	C5-C6-N6	-10.28	115.47	123.70
1	AA	189	A	C5-C6-N6	-10.28	115.48	123.70
1	AA	1141	C	N3-C4-C5	-10.28	117.79	121.90
35	BB	1730	C	C2-N3-C4	10.28	125.04	119.90
35	BB	2463	C	O4'-C1'-N1	10.28	116.42	108.20
1	AA	883	C	C5-C4-N4	-10.28	113.01	120.20
1	AA	1531	A	O4'-C1'-N9	10.28	116.42	108.20
34	BA	76	G	N1-C2-N3	-10.28	117.73	123.90
1	AA	1418	A	C6-C5-N7	-10.28	125.11	132.30
35	BB	867	C	C2-N3-C4	10.28	125.04	119.90
1	AA	371	A	N1-C6-N6	10.27	124.76	118.60
1	AA	1345	U	N1-C2-O2	-10.27	115.61	122.80
35	BB	2057	G	C5-C6-O6	-10.27	122.44	128.60
35	BB	2438	U	O4'-C1'-N1	10.27	116.42	108.20
1	AA	233	C	O4'-C1'-N1	10.27	116.41	108.20
1	AA	244	U	N1-C2-O2	-10.27	115.61	122.80
35	BB	2450	A	C2-N3-C4	-10.27	105.47	110.60
1	AA	327	A	C4-C5-N7	-10.27	105.57	110.70
1	AA	836	G	C5-C6-O6	-10.27	122.44	128.60
35	BB	1069	A	C4-C5-N7	10.27	115.83	110.70
1	AA	1357	A	O4'-C1'-N9	10.27	116.41	108.20
1	AA	456	A	C8-N9-C4	-10.26	101.69	105.80
1	AA	1104	G	N9-C4-C5	-10.26	101.29	105.40
35	BB	75	G	C5-C6-N1	-10.26	106.37	111.50
35	BB	1681	G	N3-C4-N9	10.26	132.16	126.00
35	BB	411	G	N1-C6-O6	10.26	126.06	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2582	G	O4'-C1'-N9	10.26	116.41	108.20
35	BB	1654	A	C5-C6-N6	-10.26	115.49	123.70
35	BB	2706	A	N1-C2-N3	10.26	134.43	129.30
35	BB	1642	G	C5-C6-N1	-10.26	106.37	111.50
35	BB	2778	A	C2-N3-C4	-10.26	105.47	110.60
1	AA	293	G	N3-C4-C5	-10.26	123.47	128.60
35	BB	81	G	C2-N3-C4	-10.26	106.77	111.90
35	BB	155	A	C8-N9-C4	-10.26	101.70	105.80
35	BB	877	A	C4-C5-C6	10.26	122.13	117.00
1	AA	154	U	C5-C4-O4	-10.25	119.75	125.90
35	BB	935	C	C6-N1-C2	-10.25	116.20	120.30
35	BB	1529	G	C5-N7-C8	-10.25	99.17	104.30
35	BB	2186	G	N1-C6-O6	10.25	126.05	119.90
35	BB	2241	A	C5-C6-N1	-10.25	112.57	117.70
35	BB	2573	C	N1-C2-O2	10.25	125.05	118.90
1	AA	161	A	C4-C5-C6	10.25	122.12	117.00
1	AA	1032	G	C5-C6-N1	-10.25	106.37	111.50
1	AA	669	G	C4-C5-C6	10.25	124.95	118.80
1	AA	1005	A	C5-N7-C8	10.25	109.02	103.90
35	BB	46	G	N3-C4-C5	-10.25	123.48	128.60
35	BB	133	U	O4'-C1'-N1	10.25	116.40	108.20
35	BB	1661	G	C5-C6-O6	-10.25	122.45	128.60
1	AA	623	C	O4'-C1'-N1	10.24	116.39	108.20
35	BB	284	U	O4'-C1'-N1	10.24	116.40	108.20
35	BB	1638	C	N1-C2-O2	-10.24	112.75	118.90
1	AA	1109	C	C6-N1-C2	-10.24	116.20	120.30
35	BB	1748	C	C6-N1-C2	-10.24	116.20	120.30
1	AA	753	A	C6-N1-C2	10.24	124.75	118.60
30	B5	163	TYR	CB-CG-CD1	-10.24	114.86	121.00
35	BB	1189	A	N1-C6-N6	10.24	124.75	118.60
35	BB	1637	A	C5-N7-C8	10.24	109.02	103.90
35	BB	1787	A	N9-C4-C5	-10.24	101.70	105.80
35	BB	2828	G	C5-C6-O6	-10.24	122.45	128.60
1	AA	1417	G	N1-C6-O6	10.24	126.04	119.90
35	BB	58	G	C4-C5-C6	10.24	124.94	118.80
35	BB	454	A	C2-N3-C4	10.24	115.72	110.60
35	BB	1205	A	P-O3'-C3'	10.24	131.99	119.70
1	AA	796	C	O4'-C1'-N1	10.24	116.39	108.20
35	BB	2411	A	N1-C2-N3	10.24	134.42	129.30
1	AA	958	A	C2-N3-C4	-10.23	105.48	110.60
34	BA	65	U	O4'-C1'-N1	10.23	116.39	108.20
35	BB	1380	G	C6-C5-N7	-10.23	124.26	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1604	C	N3-C4-N4	10.23	125.17	118.00
35	BB	1811	G	C8-N9-C4	-10.23	102.31	106.40
35	BB	1710	G	C4-C5-N7	-10.23	106.71	110.80
1	AA	586	C	N3-C4-N4	10.23	125.16	118.00
1	AA	908	A	C5-N7-C8	10.23	109.02	103.90
1	AA	1051	C	O4'-C1'-N1	10.23	116.39	108.20
1	AA	1477	U	N1-C2-O2	-10.23	115.64	122.80
35	BB	324	A	C5-C6-N1	-10.23	112.58	117.70
1	AA	80	A	C4-C5-C6	10.23	122.11	117.00
35	BB	560	C	C6-N1-C2	-10.23	116.21	120.30
1	AA	556	C	C6-N1-C2	-10.23	116.21	120.30
1	AA	953	G	N3-C4-C5	10.23	133.71	128.60
35	BB	37	C	O4'-C1'-N1	10.23	116.38	108.20
35	BB	496	G	O4'-C1'-N9	10.23	116.38	108.20
35	BB	901	C	N3-C4-N4	10.23	125.16	118.00
35	BB	1067	A	C4-C5-C6	10.23	122.11	117.00
35	BB	2339	C	O4'-C1'-N1	10.23	116.38	108.20
1	AA	203	G	N1-C6-O6	10.22	126.03	119.90
1	AA	890	G	C4-C5-C6	10.22	124.94	118.80
35	BB	1828	G	N3-C2-N2	10.22	127.06	119.90
35	BB	855	G	O4'-C1'-N9	10.22	116.38	108.20
35	BB	1797	G	N7-C8-N9	10.22	118.21	113.10
1	AA	893	C	N3-C4-C5	-10.22	117.81	121.90
35	BB	1850	G	N1-C6-O6	10.22	126.03	119.90
35	BB	2885	G	N1-C2-N3	-10.22	117.77	123.90
1	AA	1460	C	O4'-C1'-N1	10.22	116.38	108.20
35	BB	1577	C	N3-C4-N4	10.22	125.15	118.00
1	AA	1033	G	C5-C6-O6	-10.22	122.47	128.60
1	AA	229	U	N3-C2-O2	10.22	129.35	122.20
35	BB	254	G	N7-C8-N9	10.22	118.21	113.10
35	BB	1179	G	N1-C6-O6	10.22	126.03	119.90
35	BB	1348	C	O4'-C1'-N1	10.22	116.38	108.20
35	BB	954	G	C5-C6-O6	-10.22	122.47	128.60
35	BB	969	G	C5-C6-N1	-10.22	106.39	111.50
35	BB	1620	G	N1-C6-O6	10.22	126.03	119.90
35	BB	48	G	N1-C6-O6	10.21	126.03	119.90
1	AA	259	G	C5-C6-O6	-10.21	122.47	128.60
35	BB	1901	A	N7-C8-N9	10.21	118.91	113.80
35	BB	1952	A	C5-C6-N1	-10.21	112.59	117.70
35	BB	2121	G	N1-C2-N3	-10.21	117.77	123.90
1	AA	202	G	O4'-C1'-N9	10.21	116.37	108.20
4	AD	164	ARG	NE-CZ-NH1	10.21	125.40	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	363	A	C4-C5-C6	10.21	122.10	117.00
35	BB	1743	G	C5-C6-O6	-10.21	122.47	128.60
35	BB	1938	A	O4'-C1'-N9	10.21	116.37	108.20
35	BB	2006	C	C4-C5-C6	10.21	122.50	117.40
35	BB	2581	G	C5-C6-O6	-10.21	122.47	128.60
35	BB	2893	A	N1-C6-N6	10.21	124.72	118.60
35	BB	833	A	C4-C5-C6	10.21	122.10	117.00
35	BB	1079	C	N3-C4-N4	10.21	125.14	118.00
35	BB	1169	A	N1-C6-N6	10.21	124.72	118.60
1	AA	1350	A	C6-C5-N7	-10.20	125.16	132.30
35	BB	2461	A	N9-C4-C5	-10.20	101.72	105.80
35	BB	1468	U	O4'-C1'-N1	10.20	116.36	108.20
35	BB	2124	G	N9-C4-C5	10.20	109.48	105.40
35	BB	2201	G	N7-C8-N9	-10.20	108.00	113.10
35	BB	283	G	C5-N7-C8	10.20	109.40	104.30
35	BB	103	A	C4-C5-C6	10.20	122.10	117.00
35	BB	933	A	N1-C2-N3	10.20	134.40	129.30
35	BB	993	G	O4'-C1'-N9	10.20	116.36	108.20
35	BB	1585	C	N3-C4-C5	-10.20	117.82	121.90
1	AA	78	A	N1-C6-N6	10.20	124.72	118.60
1	AA	280	C	C5-C4-N4	-10.20	113.06	120.20
1	AA	498	A	C5-N7-C8	10.20	109.00	103.90
35	BB	648	G	O4'-C1'-N9	10.20	116.36	108.20
1	AA	1220	G	N7-C8-N9	-10.19	108.00	113.10
35	BB	400	G	C8-N9-C4	-10.19	102.32	106.40
35	BB	1558	C	C5-C4-N4	-10.19	113.06	120.20
35	BB	18	U	O4'-C1'-N1	10.19	116.35	108.20
1	AA	16	A	C6-N1-C2	10.19	124.71	118.60
1	AA	382	A	O4'-C1'-N9	10.19	116.35	108.20
35	BB	2213	U	O4'-C1'-N1	10.19	116.35	108.20
35	BB	2675	A	N9-C4-C5	10.19	109.88	105.80
1	AA	684	U	C5-C4-O4	-10.19	119.79	125.90
35	BB	1906	G	C6-C5-N7	-10.19	124.29	130.40
35	BB	2588	G	C5-N7-C8	10.19	109.39	104.30
35	BB	2762	C	N3-C4-N4	10.19	125.13	118.00
1	AA	221	C	C5-C6-N1	10.18	126.09	121.00
1	AA	1130	A	N1-C6-N6	10.18	124.71	118.60
1	AA	21	G	N3-C2-N2	10.18	127.03	119.90
1	AA	450	G	N1-C6-O6	10.18	126.01	119.90
1	AA	1374	A	N1-C6-N6	10.18	124.71	118.60
35	BB	2034	U	N3-C2-O2	-10.18	115.07	122.20
1	AA	175	C	N3-C4-N4	10.18	125.13	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2485	G	N3-C2-N2	10.18	127.03	119.90
1	AA	432	A	C5-N7-C8	10.18	108.99	103.90
1	AA	459	A	C4-C5-C6	10.18	122.09	117.00
35	BB	1232	G	N1-C6-O6	10.18	126.01	119.90
1	AA	817	C	C5-C6-N1	10.18	126.09	121.00
35	BB	1473	G	C5-C6-O6	-10.18	122.49	128.60
35	BB	1692	U	C2-N3-C4	-10.18	120.89	127.00
35	BB	2285	C	O4'-C1'-N1	10.18	116.34	108.20
35	BB	2499	C	O4'-C1'-N1	10.18	116.34	108.20
35	BB	2808	G	C6-N1-C2	10.18	131.21	125.10
1	AA	657	U	O4'-C1'-N1	10.17	116.34	108.20
1	AA	1092	A	C5-C6-N6	-10.17	115.56	123.70
35	BB	412	A	C5-C6-N1	-10.17	112.61	117.70
35	BB	942	G	N3-C2-N2	10.17	127.02	119.90
35	BB	977	G	C4-C5-C6	10.17	124.90	118.80
35	BB	2146	C	C2-N3-C4	10.17	124.99	119.90
35	BB	2878	U	O4'-C1'-N1	10.17	116.34	108.20
34	BA	9	G	N1-C6-O6	10.17	126.00	119.90
35	BB	408	G	C5-C6-O6	-10.17	122.50	128.60
35	BB	506	G	N1-C6-O6	10.17	126.00	119.90
35	BB	1515	A	O4'-C1'-N9	10.17	116.34	108.20
35	BB	697	G	N1-C6-O6	10.17	126.00	119.90
35	BB	1488	C	O4'-C1'-N1	10.17	116.33	108.20
35	BB	2082	A	C4-C5-C6	10.17	122.08	117.00
35	BB	2159	G	O4'-C1'-N9	10.17	116.33	108.20
35	BB	2663	G	C4-C5-N7	10.17	114.87	110.80
1	AA	849	G	N1-C6-O6	10.16	126.00	119.90
1	AA	987	G	C5-C6-N1	-10.16	106.42	111.50
35	BB	1296	G	C8-N9-C4	-10.16	102.33	106.40
35	BB	2737	G	C5-C6-O6	-10.16	122.50	128.60
35	BB	572	A	N1-C6-N6	10.16	124.70	118.60
1	AA	710	G	C5-C6-N1	-10.16	106.42	111.50
35	BB	2271	G	C8-N9-C4	-10.16	102.34	106.40
35	BB	2620	C	O4'-C1'-N1	10.16	116.33	108.20
35	BB	2884	U	N3-C4-O4	10.16	126.51	119.40
1	AA	1307	U	C5-C4-O4	-10.16	119.81	125.90
35	BB	2412	A	C4-C5-C6	10.16	122.08	117.00
1	AA	1198	G	O4'-C1'-N9	10.15	116.32	108.20
35	BB	927	A	C4-C5-C6	10.15	122.08	117.00
35	BB	1871	A	C5-C6-N1	-10.15	112.62	117.70
1	AA	940	C	O4'-C1'-N1	10.15	116.32	108.20
1	AA	1102	A	C5-C6-N6	-10.15	115.58	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	947	A	O4'-C1'-N9	10.15	116.32	108.20
35	BB	1140	C	O4'-C1'-N1	10.15	116.32	108.20
35	BB	2570	G	C8-N9-C4	-10.15	102.34	106.40
35	BB	2890	G	N1-C2-N3	-10.15	117.81	123.90
35	BB	1534	U	O4'-C1'-N1	10.15	116.32	108.20
1	AA	443	C	C5-C4-N4	-10.15	113.09	120.20
35	BB	1631	G	C5-C6-N1	-10.15	106.42	111.50
35	BB	1822	C	O4'-C1'-N1	10.15	116.32	108.20
35	BB	2394	C	N3-C4-N4	10.15	125.11	118.00
1	AA	126	G	N1-C6-O6	10.15	125.99	119.90
35	BB	657	U	O4'-C1'-N1	10.15	116.32	108.20
35	BB	2071	A	C8-N9-C4	-10.15	101.74	105.80
35	BB	2163	A	C4-C5-C6	10.15	122.07	117.00
1	AA	33	A	C5-C6-N6	-10.15	115.58	123.70
1	AA	654	G	N1-C6-O6	10.15	125.99	119.90
1	AA	1347	G	C4-C5-N7	-10.15	106.74	110.80
1	AA	1225	A	N1-C6-N6	10.15	124.69	118.60
1	AA	1419	G	C8-N9-C4	10.15	110.46	106.40
35	BB	1293	C	N3-C4-N4	10.15	125.10	118.00
35	BB	1490	A	C8-N9-C4	-10.15	101.74	105.80
35	BB	2726	A	C5-N7-C8	10.15	108.97	103.90
35	BB	11	C	N3-C4-N4	10.14	125.10	118.00
35	BB	453	A	O4'-C1'-N9	10.14	116.32	108.20
1	AA	190	A	C4-C5-C6	10.14	122.07	117.00
35	BB	1585	C	O4'-C1'-N1	10.14	116.31	108.20
1	AA	1426	G	N1-C6-O6	10.14	125.98	119.90
34	BA	70	C	C5-C4-N4	-10.14	113.10	120.20
34	BA	100	G	N1-C6-O6	10.14	125.98	119.90
35	BB	2165	C	P-O3'-C3'	10.14	131.87	119.70
35	BB	787	C	C6-N1-C2	10.14	124.36	120.30
35	BB	1640	A	C5-N7-C8	10.14	108.97	103.90
35	BB	141	G	N1-C6-O6	10.14	125.98	119.90
35	BB	1362	C	N3-C4-N4	10.14	125.09	118.00
35	BB	1416	G	C5-N7-C8	10.14	109.37	104.30
1	AA	1289	A	C8-N9-C4	-10.13	101.75	105.80
35	BB	2369	A	C8-N9-C4	-10.13	101.75	105.80
1	AA	1437	A	N1-C6-N6	10.13	124.68	118.60
35	BB	1281	G	C4-C5-N7	-10.13	106.75	110.80
35	BB	1398	C	O4'-C1'-N1	10.13	116.31	108.20
35	BB	2028	U	O4'-C1'-N1	10.13	116.31	108.20
35	BB	2364	C	N3-C4-C5	-10.13	117.85	121.90
35	BB	2298	A	N1-C6-N6	10.13	124.68	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2649	C	O4'-C1'-N1	10.13	116.30	108.20
1	AA	588	G	N1-C6-O6	10.12	125.97	119.90
35	BB	416	U	O4'-C1'-N1	10.12	116.30	108.20
35	BB	2880	C	C4-C5-C6	10.12	122.46	117.40
1	AA	681	A	C5-C6-N1	-10.12	112.64	117.70
35	BB	340	A	C5-N7-C8	10.12	108.96	103.90
34	BA	25	U	O4'-C1'-N1	10.12	116.30	108.20
1	AA	186	C	C5-C4-N4	-10.12	113.12	120.20
34	BA	27	C	P-O5'-C5'	10.12	137.09	120.90
35	BB	2338	C	N1-C2-O2	-10.12	112.83	118.90
35	BB	2702	G	C5-C6-O6	-10.12	122.53	128.60
1	AA	1048	G	O4'-C1'-N9	10.12	116.30	108.20
35	BB	463	G	N3-C2-N2	10.12	126.98	119.90
35	BB	1852	U	O4'-C1'-N1	10.12	116.29	108.20
35	BB	2333	A	N1-C2-N3	10.12	134.36	129.30
1	AA	498	A	N1-C6-N6	10.12	124.67	118.60
1	AA	743	A	N1-C6-N6	10.12	124.67	118.60
35	BB	707	G	N3-C2-N2	10.12	126.98	119.90
35	BB	2383	G	C5-C6-O6	-10.12	122.53	128.60
35	BB	1877	A	C2-N3-C4	-10.11	105.54	110.60
35	BB	2447	G	P-O3'-C3'	10.12	131.84	119.70
35	BB	2561	U	C5-C6-N1	10.12	127.76	122.70
1	AA	363	A	C5-C6-N1	-10.11	112.64	117.70
1	AA	1346	A	N1-C2-N3	10.11	134.36	129.30
35	BB	1338	G	N1-C2-N3	-10.11	117.83	123.90
35	BB	1759	A	C5-C6-N6	-10.11	115.61	123.70
35	BB	1879	C	C5-C4-N4	-10.11	113.12	120.20
38	BE	40	ARG	NE-CZ-NH2	-10.11	115.25	120.30
35	BB	915	C	C6-N1-C2	-10.11	116.26	120.30
1	AA	273	U	C5-C6-N1	10.11	127.75	122.70
1	AA	522	C	C2-N3-C4	10.11	124.95	119.90
1	AA	689	C	O4'-C1'-N1	10.11	116.29	108.20
1	AA	1151	A	N3-C4-C5	-10.11	119.72	126.80
35	BB	97	C	C6-N1-C2	-10.11	116.26	120.30
35	BB	417	C	C6-N1-C2	-10.11	116.26	120.30
35	BB	1113	U	O4'-C1'-N1	10.11	116.29	108.20
35	BB	1450	G	O4'-C1'-N9	10.11	116.29	108.20
35	BB	1786	A	C5-C6-N1	-10.11	112.64	117.70
35	BB	2234	G	C6-C5-N7	-10.11	124.33	130.40
35	BB	2294	G	O4'-C1'-N9	10.11	116.29	108.20
35	BB	2838	G	N9-C4-C5	-10.11	101.36	105.40
35	BB	785	G	N1-C6-O6	10.11	125.96	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1535	A	O4'-C1'-N9	10.11	116.29	108.20
35	BB	2474	U	C5-C6-N1	10.11	127.75	122.70
1	AA	1445	U	O4'-C1'-N1	10.10	116.28	108.20
35	BB	177	G	N1-C6-O6	10.10	125.96	119.90
1	AA	627	G	C5-C6-N1	-10.10	106.45	111.50
1	AA	816	A	C5-C6-N1	-10.10	112.65	117.70
1	AA	949	A	C4-C5-C6	10.10	122.05	117.00
35	BB	140	C	C5-C6-N1	10.10	126.05	121.00
35	BB	801	G	C4-C5-C6	10.10	124.86	118.80
35	BB	2015	A	C4-C5-C6	10.10	122.05	117.00
22	AV	37	G	N3-C4-C5	-10.10	123.55	128.60
35	BB	302	C	N3-C4-C5	-10.10	117.86	121.90
21	AU	17	ARG	NE-CZ-NH1	10.10	125.35	120.30
35	BB	197	A	O4'-C1'-N9	10.10	116.28	108.20
35	BB	301	G	C8-N9-C4	-10.10	102.36	106.40
35	BB	835	C	N3-C4-N4	10.10	125.07	118.00
35	BB	958	U	N3-C4-C5	-10.10	108.54	114.60
35	BB	1444	G	O4'-C1'-N9	10.10	116.28	108.20
1	AA	485	U	N1-C2-N3	-10.10	108.84	114.90
35	BB	222	A	N1-C6-N6	10.10	124.66	118.60
35	BB	635	C	N3-C4-C5	-10.10	117.86	121.90
1	AA	660	C	O4'-C1'-N1	10.09	116.27	108.20
35	BB	1591	A	C4-C5-C6	10.09	122.05	117.00
35	BB	1837	C	O4'-C1'-N1	10.09	116.28	108.20
35	BB	2877	G	C5-N7-C8	10.09	109.35	104.30
1	AA	691	G	N9-C4-C5	-10.09	101.36	105.40
1	AA	1127	G	C4-C5-C6	10.09	124.86	118.80
35	BB	187	G	P-O5'-C5'	10.09	137.05	120.90
35	BB	1106	G	N1-C6-O6	10.09	125.96	119.90
35	BB	2413	G	C5-C6-O6	-10.09	122.54	128.60
1	AA	136	C	O4'-C1'-N1	10.09	116.27	108.20
35	BB	1400	U	O4'-C1'-N1	10.09	116.27	108.20
1	AA	1039	G	N1-C6-O6	10.09	125.95	119.90
35	BB	921	C	O4'-C1'-N1	10.09	116.27	108.20
35	BB	2206	C	C6-N1-C2	-10.09	116.27	120.30
35	BB	2758	A	C5-C6-N6	-10.09	115.63	123.70
35	BB	1464	G	O4'-C1'-N9	10.09	116.27	108.20
1	AA	114	U	O4'-C1'-N1	10.08	116.27	108.20
1	AA	496	A	C8-N9-C4	-10.08	101.77	105.80
1	AA	973	G	O4'-C1'-N9	10.08	116.27	108.20
35	BB	1822	C	N3-C4-N4	10.08	125.06	118.00
35	BB	1588	G	N1-C6-O6	10.08	125.95	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2331	G	C4-C5-C6	10.08	124.85	118.80
1	AA	65	A	C5-C6-N1	-10.08	112.66	117.70
1	AA	716	A	C6-C5-N7	-10.08	125.25	132.30
34	BA	56	G	N7-C8-N9	10.08	118.14	113.10
35	BB	432	A	C4-C5-C6	10.08	122.04	117.00
35	BB	2597	G	N1-C2-N3	-10.08	117.85	123.90
35	BB	2846	G	C5-C6-O6	-10.08	122.55	128.60
18	AR	50	TYR	CB-CG-CD2	10.08	127.05	121.00
35	BB	197	A	C5-C6-N1	-10.08	112.66	117.70
35	BB	839	U	O4'-C1'-N1	10.08	116.26	108.20
35	BB	1837	C	N3-C4-C5	-10.08	117.87	121.90
35	BB	1416	G	O4'-C1'-N9	10.07	116.26	108.20
35	BB	1570	A	C5-C6-N6	-10.07	115.64	123.70
1	AA	301	G	C5-C6-O6	-10.07	122.56	128.60
1	AA	1404	C	N1-C2-O2	-10.07	112.86	118.90
35	BB	246	C	O4'-C1'-N1	10.07	116.26	108.20
1	AA	361	G	C8-N9-C4	-10.07	102.37	106.40
1	AA	649	A	N7-C8-N9	-10.07	108.76	113.80
35	BB	1962	C	N3-C4-N4	10.07	125.05	118.00
53	BT	12	ARG	NE-CZ-NH2	-10.07	115.26	120.30
1	AA	11	G	C4-C5-N7	10.07	114.83	110.80
1	AA	570	G	C5-C6-O6	-10.07	122.56	128.60
1	AA	778	G	C4-C5-N7	10.07	114.83	110.80
1	AA	890	G	C6-C5-N7	-10.07	124.36	130.40
1	AA	1163	A	C4-C5-C6	10.07	122.03	117.00
35	BB	952	G	C5-C6-O6	-10.07	122.56	128.60
35	BB	2636	C	O4'-C1'-N1	10.07	116.26	108.20
35	BB	417	C	N3-C4-N4	10.07	125.05	118.00
35	BB	1100	C	N3-C4-N4	10.07	125.05	118.00
35	BB	1336	A	N1-C6-N6	10.07	124.64	118.60
1	AA	201	G	C4-C5-C6	10.07	124.84	118.80
1	AA	937	A	N1-C2-N3	-10.07	124.27	129.30
1	AA	60	A	C5-C6-N6	-10.07	115.65	123.70
35	BB	1289	C	C5-C4-N4	-10.07	113.15	120.20
35	BB	1405	U	O4'-C1'-N1	10.07	116.25	108.20
1	AA	182	A	O4'-C1'-N9	10.06	116.25	108.20
35	BB	1549	A	N1-C6-N6	10.06	124.64	118.60
35	BB	509	C	N3-C4-N4	10.06	125.04	118.00
35	BB	759	G	C4-C5-C6	10.06	124.84	118.80
35	BB	2741	A	N1-C6-N6	10.06	124.64	118.60
1	AA	51	A	C5-C6-N6	-10.06	115.65	123.70
35	BB	354	A	C5-C6-N1	-10.06	112.67	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1699	G	N1-C6-O6	10.06	125.94	119.90
35	BB	2853	C	N3-C4-N4	10.06	125.04	118.00
1	AA	1114	C	C6-N1-C2	-10.06	116.28	120.30
35	BB	620	G	N1-C2-N3	-10.06	117.87	123.90
35	BB	1385	A	C5-C6-N6	-10.06	115.65	123.70
1	AA	1074	G	N7-C8-N9	10.05	118.13	113.10
1	AA	1256	A	C5-C6-N6	-10.06	115.66	123.70
22	AV	53	G	N1-C6-O6	10.06	125.93	119.90
34	BA	57	A	O4'-C1'-N9	10.06	116.25	108.20
35	BB	1010	A	C5-C6-N1	-10.06	112.67	117.70
1	AA	1206	G	C6-C5-N7	-10.05	124.37	130.40
35	BB	560	C	C5-C4-N4	-10.05	113.16	120.20
35	BB	798	G	N1-C6-O6	10.05	125.93	119.90
1	AA	10	A	C5-C6-N6	-10.05	115.66	123.70
1	AA	151	A	N9-C4-C5	10.05	109.82	105.80
35	BB	76	C	N3-C4-N4	10.05	125.04	118.00
35	BB	1545	A	C8-N9-C4	-10.05	101.78	105.80
1	AA	1137	C	N3-C4-N4	10.05	125.03	118.00
35	BB	122	G	C4-C5-C6	10.05	124.83	118.80
35	BB	371	A	P-O3'-C3'	10.05	131.76	119.70
35	BB	595	C	O4'-C1'-N1	10.05	116.24	108.20
35	BB	856	G	N1-C6-O6	10.05	125.93	119.90
35	BB	1482	G	C4-C5-N7	-10.05	106.78	110.80
35	BB	1598	A	C5-C6-N1	-10.05	112.67	117.70
35	BB	1858	A	N1-C6-N6	10.05	124.63	118.60
35	BB	2019	A	C2-N3-C4	-10.05	105.58	110.60
35	BB	2551	C	O4'-C1'-N1	10.05	116.24	108.20
1	AA	105	G	C6-N1-C2	10.05	131.13	125.10
35	BB	492	A	N1-C6-N6	10.05	124.63	118.60
35	BB	1026	G	N3-C4-N9	10.05	132.03	126.00
35	BB	1331	G	N1-C6-O6	10.05	125.93	119.90
1	AA	1299	A	C6-C5-N7	-10.04	125.27	132.30
35	BB	1318	U	C5-C6-N1	10.04	127.72	122.70
35	BB	1853	A	O4'-C1'-N9	10.04	116.23	108.20
35	BB	2556	C	N3-C4-N4	10.04	125.03	118.00
1	AA	876	C	N3-C4-C5	-10.04	117.88	121.90
35	BB	621	A	C5-C6-N6	-10.04	115.67	123.70
35	BB	727	A	C5-C6-N6	-10.04	115.67	123.70
35	BB	2224	G	N1-C6-O6	10.04	125.92	119.90
1	AA	1420	U	O4'-C1'-N1	10.04	116.23	108.20
35	BB	314	C	O4'-C1'-N1	10.04	116.23	108.20
35	BB	515	A	O4'-C1'-N9	10.04	116.23	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1783	A	C8-N9-C4	10.04	109.82	105.80
35	BB	1979	U	N1-C2-O2	-10.04	115.77	122.80
35	BB	1781	U	O4'-C1'-N1	10.04	116.23	108.20
35	BB	1456	G	O4'-C1'-N9	10.04	116.23	108.20
35	BB	1752	C	O4'-C1'-N1	10.03	116.23	108.20
1	AA	558	G	N1-C6-O6	10.03	125.92	119.90
35	BB	1284	A	C5-C6-N6	-10.03	115.67	123.70
35	BB	2602	A	C5-C6-N1	-10.03	112.68	117.70
35	BB	1970	A	C2-N3-C4	10.03	115.61	110.60
35	BB	2189	U	C6-N1-C2	-10.03	114.98	121.00
35	BB	2648	G	N1-C6-O6	10.03	125.92	119.90
1	AA	949	A	N1-C2-N3	-10.03	124.28	129.30
35	BB	1630	A	N1-C6-N6	10.03	124.62	118.60
9	AI	79	ARG	NE-CZ-NH2	-10.03	115.29	120.30
35	BB	145	C	C5-C4-N4	-10.03	113.18	120.20
35	BB	611	C	N3-C4-C5	-10.03	117.89	121.90
35	BB	1000	A	C5-C6-N6	-10.03	115.68	123.70
35	BB	1434	A	N9-C4-C5	-10.03	101.79	105.80
1	AA	1023	U	C5-C4-O4	10.03	131.91	125.90
1	AA	1324	A	O4'-C1'-N9	10.03	116.22	108.20
35	BB	1938	A	N7-C8-N9	-10.03	108.79	113.80
35	BB	2053	G	O4'-C1'-N9	10.02	116.22	108.20
53	BT	73	ARG	NE-CZ-NH1	10.02	125.31	120.30
1	AA	264	C	C2-N3-C4	10.02	124.91	119.90
35	BB	855	G	C8-N9-C4	10.02	110.41	106.40
35	BB	2361	G	N1-C6-O6	10.02	125.91	119.90
1	AA	790	A	N1-C6-N6	10.02	124.61	118.60
1	AA	1225	A	C3'-C2'-C1'	10.02	109.51	101.50
1	AA	861	G	N1-C6-O6	10.02	125.91	119.90
35	BB	26	G	C5-C6-O6	-10.02	122.59	128.60
35	BB	898	C	O4'-C1'-N1	10.01	116.21	108.20
1	AA	1431	A	C5-C6-N6	-10.01	115.69	123.70
34	BA	98	G	P-O3'-C3'	10.01	131.71	119.70
35	BB	104	A	C5-C6-N1	-10.01	112.69	117.70
1	AA	42	G	C5-C6-O6	-10.01	122.59	128.60
1	AA	665	A	C5-N7-C8	10.01	108.91	103.90
35	BB	243	U	N1-C2-N3	-10.01	108.89	114.90
35	BB	690	G	N9-C4-C5	10.01	109.40	105.40
35	BB	2160	C	C5-C6-N1	10.01	126.00	121.00
35	BB	2881	U	O4'-C1'-N1	10.01	116.21	108.20
47	BN	30	ARG	NE-CZ-NH1	10.01	125.31	120.30
55	BW	57	TYR	CB-CG-CD2	-10.01	114.99	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	157	C	O4'-C1'-N1	10.01	116.20	108.20
35	BB	597	G	C2-N3-C4	10.01	116.90	111.90
35	BB	2793	C	N3-C4-C5	-10.01	117.90	121.90
1	AA	488	C	O4'-C1'-N1	10.01	116.20	108.20
35	BB	156	A	N1-C6-N6	10.01	124.60	118.60
35	BB	199	A	N1-C6-N6	10.01	124.60	118.60
35	BB	540	C	C6-N1-C2	-10.01	116.30	120.30
35	BB	1006	C	N3-C4-N4	10.01	125.00	118.00
1	AA	1246	A	O4'-C1'-N9	10.00	116.20	108.20
35	BB	833	A	C5-C6-N6	-10.00	115.70	123.70
1	AA	115	G	N1-C2-N3	-10.00	117.90	123.90
1	AA	806	C	O4'-C1'-N1	10.00	116.20	108.20
34	BA	102	G	C2-N3-C4	-10.00	106.90	111.90
35	BB	2892	G	C5-C6-O6	-10.00	122.60	128.60
1	AA	699	C	O4'-C1'-N1	10.00	116.20	108.20
35	BB	1589	U	C2-N3-C4	-10.00	121.00	127.00
35	BB	2287	A	C5-C6-N6	-10.00	115.70	123.70
1	AA	544	G	N3-C2-N2	10.00	126.90	119.90
1	AA	563	A	C4-C5-C6	10.00	122.00	117.00
1	AA	625	U	N3-C2-O2	10.00	129.20	122.20
35	BB	1579	A	O4'-C1'-N9	10.00	116.20	108.20
35	BB	2623	G	N7-C8-N9	10.00	118.10	113.10
35	BB	2017	U	C5-C4-O4	-9.99	119.90	125.90
1	AA	993	G	O4'-C1'-N9	9.99	116.19	108.20
1	AA	1161	C	C6-N1-C2	-9.99	116.30	120.30
35	BB	2801	G	C6-C5-N7	-9.99	124.40	130.40
40	BG	54	ARG	NE-CZ-NH1	9.99	125.30	120.30
1	AA	29	U	C5-C4-O4	-9.99	119.91	125.90
1	AA	447	G	C8-N9-C4	-9.99	102.40	106.40
1	AA	536	C	N3-C4-N4	9.99	124.99	118.00
1	AA	953	G	C4-C5-N7	9.99	114.80	110.80
35	BB	2649	C	N3-C4-N4	9.99	124.99	118.00
1	AA	403	C	N3-C4-N4	9.99	124.99	118.00
35	BB	928	A	N1-C6-N6	9.99	124.59	118.60
35	BB	2354	C	N1-C2-O2	-9.99	112.91	118.90
1	AA	68	G	N1-C6-O6	9.98	125.89	119.90
1	AA	1343	G	C2-N3-C4	9.98	116.89	111.90
1	AA	1419	G	N3-C4-C5	9.98	133.59	128.60
35	BB	1118	C	N3-C4-N4	9.98	124.99	118.00
1	AA	774	G	N1-C2-N3	-9.98	117.91	123.90
1	AA	1374	A	C5-C6-N6	-9.98	115.72	123.70
35	BB	1331	G	C5-C6-O6	-9.98	122.61	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	400	C	O4'-C1'-N1	9.98	116.18	108.20
1	AA	416	G	C4-C5-C6	9.98	124.79	118.80
1	AA	916	U	C5-C6-N1	9.98	127.69	122.70
1	AA	1316	G	N1-C6-O6	9.98	125.89	119.90
1	AA	1339	A	O4'-C1'-N9	9.98	116.18	108.20
2	AB	21	TYR	CB-CG-CD2	9.98	126.99	121.00
1	AA	929	G	C5-C6-O6	-9.97	122.62	128.60
35	BB	146	A	C5-C6-N1	-9.97	112.71	117.70
35	BB	1008	A	N1-C6-N6	9.97	124.58	118.60
1	AA	567	G	N1-C6-O6	9.97	125.88	119.90
1	AA	1005	A	N1-C6-N6	9.97	124.58	118.60
34	BA	106	G	C5-C6-O6	-9.97	122.62	128.60
35	BB	492	A	C4-C5-C6	9.97	121.98	117.00
35	BB	555	G	C3'-C2'-C1'	9.97	109.47	101.50
13	AM	78	ARG	NE-CZ-NH1	9.97	125.28	120.30
35	BB	1778	U	O4'-C1'-N1	9.97	116.17	108.20
35	BB	2059	A	C2-N3-C4	-9.97	105.62	110.60
1	AA	944	G	N1-C2-N3	-9.97	117.92	123.90
1	AA	1310	G	N1-C6-O6	9.96	125.88	119.90
1	AA	1386	G	C4-C5-N7	-9.96	106.81	110.80
1	AA	1405	G	C5-C6-O6	-9.96	122.62	128.60
35	BB	708	G	N1-C6-O6	9.96	125.88	119.90
1	AA	87	C	N3-C4-N4	9.96	124.97	118.00
35	BB	1755	A	C2-N3-C4	-9.96	105.62	110.60
35	BB	1901	A	N1-C2-N3	-9.96	124.32	129.30
35	BB	2255	G	N1-C6-O6	9.96	125.88	119.90
1	AA	276	G	O4'-C1'-N9	9.96	116.17	108.20
1	AA	550	G	C6-C5-N7	-9.96	124.43	130.40
1	AA	670	G	C5-C6-O6	-9.96	122.62	128.60
1	AA	873	A	N1-C6-N6	9.96	124.58	118.60
1	AA	1352	C	N1-C2-O2	-9.96	112.92	118.90
1	AA	753	A	C4-C5-C6	9.96	121.98	117.00
35	BB	1002	G	C6-C5-N7	-9.96	124.43	130.40
35	BB	1150	C	C6-N1-C2	-9.96	116.32	120.30
35	BB	1937	A	C5-C6-N1	-9.96	112.72	117.70
35	BB	2341	G	C2-N3-C4	9.96	116.88	111.90
1	AA	681	A	C6-C5-N7	-9.96	125.33	132.30
35	BB	2465	C	C6-N1-C2	-9.96	116.32	120.30
1	AA	1462	C	N3-C4-N4	9.95	124.97	118.00
1	AA	1506	U	O4'-C1'-N1	9.95	116.16	108.20
35	BB	2875	C	N3-C4-C5	-9.95	117.92	121.90
1	AA	535	A	N1-C2-N3	9.95	134.28	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	705	G	C6-C5-N7	-9.95	124.43	130.40
35	BB	2158	A	C4-C5-C6	9.95	121.97	117.00
1	AA	1097	C	O4'-C1'-N1	9.95	116.16	108.20
1	AA	739	C	N3-C4-N4	9.95	124.96	118.00
1	AA	848	C	N3-C4-N4	9.95	124.96	118.00
35	BB	933	A	N1-C6-N6	9.95	124.57	118.60
35	BB	2126	A	C8-N9-C4	-9.95	101.82	105.80
35	BB	2677	G	O4'-C1'-N9	9.95	116.16	108.20
35	BB	81	G	N1-C6-O6	9.94	125.87	119.90
35	BB	2357	G	C4-C5-C6	9.94	124.77	118.80
1	AA	651	C	O4'-C1'-N1	9.94	116.15	108.20
35	BB	854	C	C5-C4-N4	-9.94	113.24	120.20
1	AA	1438	G	N3-C2-N2	9.94	126.86	119.90
1	AA	1441	A	C4-C5-C6	9.94	121.97	117.00
35	BB	1024	G	C5-C6-O6	-9.94	122.64	128.60
35	BB	2505	G	N7-C8-N9	-9.94	108.13	113.10
1	AA	848	C	N3-C4-C5	-9.94	117.92	121.90
35	BB	1582	C	N3-C4-N4	9.94	124.96	118.00
1	AA	48	C	O4'-C1'-N1	9.93	116.15	108.20
35	BB	1749	A	C4-C5-N7	-9.93	105.73	110.70
35	BB	2585	U	O4'-C1'-N1	9.93	116.15	108.20
1	AA	153	C	C5-C6-N1	9.93	125.97	121.00
22	AV	33	U	P-O3'-C3'	9.93	131.62	119.70
35	BB	446	G	N1-C6-O6	9.93	125.86	119.90
1	AA	6	G	N7-C8-N9	9.93	118.06	113.10
1	AA	280	C	N3-C4-N4	9.93	124.95	118.00
1	AA	1458	G	N1-C6-O6	9.93	125.86	119.90
35	BB	574	A	C5-C6-N1	-9.93	112.74	117.70
35	BB	1237	A	C5-N7-C8	9.93	108.86	103.90
35	BB	1994	C	C2-N3-C4	9.93	124.86	119.90
1	AA	452	A	O4'-C1'-N9	9.92	116.14	108.20
1	AA	151	A	C8-N9-C4	-9.92	101.83	105.80
35	BB	943	A	C8-N9-C4	-9.92	101.83	105.80
35	BB	1133	A	P-O3'-C3'	9.92	131.61	119.70
35	BB	1750	G	C8-N9-C4	-9.92	102.43	106.40
1	AA	142	G	N7-C8-N9	9.92	118.06	113.10
1	AA	165	G	N1-C6-O6	9.92	125.85	119.90
35	BB	1901	A	C5-C6-N1	-9.92	112.74	117.70
1	AA	1251	A	O4'-C1'-N9	9.92	116.14	108.20
35	BB	1691	C	C5-C6-N1	9.92	125.96	121.00
35	BB	1692	U	N1-C2-N3	9.92	120.85	114.90
35	BB	2611	C	C4-C5-C6	9.92	122.36	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2732	G	O4'-C1'-N9	9.92	116.14	108.20
35	BB	64	A	C6-C5-N7	-9.92	125.36	132.30
35	BB	2589	A	N1-C6-N6	9.92	124.55	118.60
35	BB	1592	C	C5-C6-N1	9.91	125.96	121.00
1	AA	13	U	N3-C2-O2	9.91	129.14	122.20
1	AA	1515	G	N1-C6-O6	9.91	125.85	119.90
35	BB	1337	G	C5-C6-O6	-9.91	122.65	128.60
35	BB	2327	A	C8-N9-C4	-9.91	101.83	105.80
35	BB	2437	G	C5-C6-O6	-9.91	122.65	128.60
1	AA	995	C	O4'-C1'-N1	9.91	116.13	108.20
35	BB	199	A	O4'-C1'-N9	9.91	116.13	108.20
1	AA	280	C	C5-C6-N1	-9.91	116.05	121.00
1	AA	683	G	C5-C6-O6	-9.91	122.65	128.60
35	BB	1537	G	C5-C6-N1	-9.91	106.55	111.50
35	BB	2167	U	O4'-C1'-N1	9.91	116.13	108.20
35	BB	1669	A	C4-C5-C6	9.91	121.95	117.00
35	BB	2191	A	C4-C5-N7	-9.91	105.75	110.70
35	BB	2739	U	O4'-C1'-N1	9.91	116.13	108.20
1	AA	318	G	N1-C6-O6	9.91	125.84	119.90
1	AA	728	A	C6-C5-N7	-9.91	125.37	132.30
1	AA	1128	C	O4'-C1'-N1	9.91	116.12	108.20
35	BB	120	U	O4'-C1'-N1	9.91	116.12	108.20
35	BB	233	A	C5-C6-N6	-9.91	115.77	123.70
35	BB	675	A	N1-C2-N3	9.91	134.25	129.30
35	BB	1041	G	O4'-C1'-N9	9.91	116.12	108.20
35	BB	2059	A	N7-C8-N9	-9.91	108.85	113.80
1	AA	741	G	O4'-C1'-N9	9.90	116.12	108.20
1	AA	1215	G	N1-C2-N3	-9.90	117.96	123.90
1	AA	1498	U	O4'-C1'-N1	9.90	116.12	108.20
5	AE	137	ARG	NE-CZ-NH1	9.90	125.25	120.30
35	BB	36	G	C5-N7-C8	9.90	109.25	104.30
35	BB	992	C	C5-C6-N1	9.90	125.95	121.00
1	AA	1372	U	C5-C4-O4	-9.90	119.96	125.90
35	BB	1733	G	C5-C6-O6	-9.90	122.66	128.60
35	BB	2885	G	N1-C6-O6	9.90	125.84	119.90
1	AA	1199	U	O4'-C1'-N1	9.90	116.12	108.20
1	AA	1524	C	N3-C4-N4	9.90	124.93	118.00
35	BB	310	A	N1-C6-N6	9.90	124.54	118.60
35	BB	876	C	C6-N1-C2	-9.90	116.34	120.30
35	BB	922	C	O4'-C4'-C3'	-9.90	94.10	104.00
35	BB	1881	C	O4'-C1'-N1	9.90	116.12	108.20
35	BB	2858	C	N3-C4-C5	-9.90	117.94	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	737	C	C5-C6-N1	-9.90	116.05	121.00
1	AA	960	U	P-O3'-C3'	9.90	131.58	119.70
35	BB	1470	A	N1-C2-N3	9.90	134.25	129.30
1	AA	172	A	C4-C5-N7	-9.90	105.75	110.70
34	BA	114	C	O4'-C1'-N1	9.90	116.12	108.20
35	BB	2864	G	C5-C6-N1	-9.90	106.55	111.50
35	BB	513	A	C2-N3-C4	-9.89	105.65	110.60
35	BB	264	C	N3-C4-N4	9.89	124.92	118.00
35	BB	1480	C	C4-C5-C6	9.89	122.35	117.40
35	BB	2672	U	O4'-C1'-N1	9.89	116.11	108.20
1	AA	1136	C	N3-C4-N4	9.89	124.92	118.00
35	BB	15	G	N3-C2-N2	9.89	126.82	119.90
35	BB	580	U	O4'-C1'-N1	9.89	116.11	108.20
35	BB	995	C	O4'-C1'-N1	9.89	116.11	108.20
1	AA	1254	A	C5-C6-N6	-9.89	115.79	123.70
35	BB	1037	G	C5-C6-O6	-9.89	122.67	128.60
35	BB	1129	A	N1-C6-N6	9.89	124.53	118.60
35	BB	2130	U	O4'-C1'-N1	9.89	116.11	108.20
35	BB	2717	C	N1-C2-O2	-9.89	112.97	118.90
1	AA	1014	A	C5-C6-N1	-9.88	112.76	117.70
35	BB	391	A	C4-C5-C6	9.88	121.94	117.00
56	BY	19	ARG	NE-CZ-NH1	9.89	125.24	120.30
35	BB	887	U	P-O3'-C3'	9.88	131.56	119.70
35	BB	1221	C	O4'-C1'-N1	9.88	116.11	108.20
35	BB	1101	U	O4'-C1'-N1	9.88	116.10	108.20
35	BB	1786	A	N1-C6-N6	9.88	124.53	118.60
35	BB	2433	A	O4'-C1'-N9	9.88	116.10	108.20
35	BB	2900	A	N1-C6-N6	9.88	124.53	118.60
1	AA	1097	C	N3-C4-N4	9.88	124.91	118.00
35	BB	1062	G	C4-C5-C6	9.88	124.73	118.80
35	BB	1158	C	N3-C4-C5	-9.88	117.95	121.90
35	BB	1557	C	N3-C4-N4	9.88	124.92	118.00
35	BB	1827	U	O4'-C1'-N1	9.88	116.10	108.20
35	BB	2410	G	N1-C6-O6	9.88	125.83	119.90
35	BB	1485	U	C5-C4-O4	-9.88	119.97	125.90
35	BB	1853	A	N9-C4-C5	-9.88	101.85	105.80
1	AA	28	A	N1-C6-N6	9.87	124.52	118.60
1	AA	1457	G	C6-C5-N7	-9.88	124.47	130.40
35	BB	1961	C	O4'-C1'-N1	9.88	116.10	108.20
35	BB	2338	C	N3-C4-C5	-9.88	117.95	121.90
35	BB	936	A	N3-C4-C5	-9.87	119.89	126.80
35	BB	2802	G	N1-C6-O6	9.87	125.82	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	98	G	C5-C6-N1	-9.87	106.57	111.50
35	BB	924	G	C8-N9-C4	9.87	110.35	106.40
35	BB	298	G	N9-C4-C5	-9.87	101.45	105.40
35	BB	891	G	N7-C8-N9	9.87	118.03	113.10
35	BB	2421	G	O4'-C1'-N9	9.87	116.09	108.20
35	BB	2720	U	O4'-C1'-N1	9.87	116.10	108.20
35	BB	1558	C	O4'-C1'-N1	9.87	116.09	108.20
35	BB	2886	A	C5-C6-N1	-9.87	112.77	117.70
1	AA	1252	A	C5-C6-N6	-9.86	115.81	123.70
35	BB	771	G	O4'-C1'-N9	9.87	116.09	108.20
35	BB	2621	G	C5-C6-N1	-9.87	106.57	111.50
1	AA	743	A	C5-N7-C8	9.86	108.83	103.90
34	BA	83	G	O4'-C1'-N9	9.86	116.09	108.20
48	BO	102	ARG	NE-CZ-NH2	-9.86	115.37	120.30
1	AA	925	G	C4-C5-N7	9.86	114.74	110.80
1	AA	1004	A	O4'-C1'-N9	9.86	116.09	108.20
1	AA	1387	G	O4'-C1'-N9	9.86	116.09	108.20
35	BB	1155	A	N1-C6-N6	9.86	124.52	118.60
35	BB	1909	C	C5-C6-N1	9.86	125.93	121.00
35	BB	464	U	O4'-C1'-N1	9.86	116.08	108.20
35	BB	2468	A	C6-C5-N7	-9.86	125.40	132.30
35	BB	1087	G	N7-C8-N9	9.86	118.03	113.10
35	BB	1380	G	O4'-C1'-N9	9.86	116.08	108.20
35	BB	1407	G	O4'-C1'-N9	9.86	116.08	108.20
35	BB	2185	U	O4'-C1'-N1	9.86	116.08	108.20
1	AA	942	G	N1-C6-O6	9.85	125.81	119.90
35	BB	251	A	N1-C6-N6	9.85	124.51	118.60
35	BB	324	A	C4-C5-N7	-9.85	105.77	110.70
35	BB	1226	A	C5-C6-N6	-9.85	115.82	123.70
35	BB	1537	G	C4-C5-N7	-9.85	106.86	110.80
35	BB	1977	A	O4'-C1'-N9	9.85	116.08	108.20
1	AA	270	A	C5-N7-C8	9.85	108.83	103.90
1	AA	1306	A	C5-C6-N6	-9.85	115.82	123.70
1	AA	1525	G	N1-C2-N3	-9.85	117.99	123.90
35	BB	29	U	P-O3'-C3'	-9.85	107.88	119.70
35	BB	182	A	C5-C6-N1	-9.85	112.78	117.70
35	BB	723	C	N3-C4-N4	9.85	124.89	118.00
35	BB	1840	G	O4'-C1'-N9	9.85	116.08	108.20
35	BB	1972	G	C5-C6-N1	-9.85	106.58	111.50
35	BB	2010	G	O4'-C1'-N9	9.85	116.08	108.20
1	AA	271	C	N3-C4-C5	-9.85	117.96	121.90
1	AA	938	A	N1-C6-N6	9.85	124.51	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1008	U	C5-C6-N1	9.85	127.62	122.70
35	BB	1237	A	C3'-C2'-C1'	9.85	109.38	101.50
17	AQ	76	ARG	NE-CZ-NH1	9.85	125.22	120.30
35	BB	2811	G	N7-C8-N9	9.85	118.02	113.10
1	AA	238	A	C5-C6-N6	-9.84	115.83	123.70
35	BB	722	A	N9-C4-C5	9.84	109.74	105.80
1	AA	1516	G	C5-N7-C8	9.84	109.22	104.30
35	BB	142	A	C5-C6-N6	-9.84	115.83	123.70
35	BB	705	A	N1-C6-N6	9.84	124.51	118.60
35	BB	807	U	O4'-C1'-N1	9.84	116.08	108.20
35	BB	2003	A	C4-C5-C6	9.84	121.92	117.00
35	BB	1046	A	C5'-C4'-O4'	9.84	120.91	109.10
1	AA	1108	G	O4'-C1'-N9	9.84	116.07	108.20
1	AA	1164	G	N3-C2-N2	9.84	126.79	119.90
35	BB	1731	G	P-O3'-C3'	9.84	131.51	119.70
35	BB	1057	A	O4'-C1'-N9	9.84	116.07	108.20
1	AA	536	C	N3-C4-C5	-9.84	117.97	121.90
1	AA	1480	A	N9-C4-C5	9.84	109.73	105.80
35	BB	750	A	C8-N9-C4	-9.84	101.86	105.80
35	BB	928	A	C5-C6-N6	-9.84	115.83	123.70
35	BB	1462	C	N3-C4-C5	-9.84	117.97	121.90
35	BB	1973	G	C6-N1-C2	9.84	131.00	125.10
8	AH	65	PHE	CB-CG-CD2	9.84	127.69	120.80
35	BB	263	G	C4-C5-N7	9.84	114.73	110.80
35	BB	283	G	N9-C4-C5	9.84	109.33	105.40
35	BB	1430	G	N3-C2-N2	9.84	126.79	119.90
35	BB	1462	C	C6-N1-C2	-9.84	116.37	120.30
35	BB	2800	A	C4-C5-C6	9.84	121.92	117.00
1	AA	460	A	O4'-C1'-N9	9.83	116.07	108.20
35	BB	523	C	O4'-C1'-N1	9.83	116.07	108.20
35	BB	627	A	N9-C4-C5	9.83	109.73	105.80
35	BB	850	U	C5-C6-N1	9.83	127.62	122.70
1	AA	1105	A	N1-C6-N6	9.83	124.50	118.60
35	BB	2082	A	N1-C6-N6	9.83	124.50	118.60
35	BB	722	A	C5-C6-N6	-9.83	115.84	123.70
35	BB	1647	U	O4'-C1'-N1	9.83	116.06	108.20
35	BB	2437	G	N1-C6-O6	9.83	125.80	119.90
49	BP	112	ARG	NE-CZ-NH1	9.83	125.21	120.30
22	AV	34	G	P-O5'-C5'	9.83	136.62	120.90
35	BB	895	U	C5-C6-N1	9.83	127.61	122.70
35	BB	1535	A	C5'-C4'-O4'	9.83	120.89	109.10
35	BB	2860	A	C5-C6-N1	-9.83	112.79	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	128	G	O4'-C1'-N9	9.82	116.06	108.20
35	BB	13	A	N7-C8-N9	-9.82	108.89	113.80
35	BB	2012	G	C6-C5-N7	-9.82	124.50	130.40
35	BB	969	G	C6-C5-N7	-9.82	124.51	130.40
1	AA	239	U	P-O5'-C5'	9.82	136.61	120.90
34	BA	116	G	C5-C6-O6	-9.82	122.71	128.60
35	BB	934	U	O4'-C1'-N1	9.82	116.06	108.20
35	BB	1998	A	C5-C6-N6	-9.82	115.84	123.70
1	AA	302	G	C6-C5-N7	-9.82	124.51	130.40
1	AA	1349	A	N1-C2-N3	9.82	134.21	129.30
35	BB	900	A	C5-C6-N6	-9.82	115.85	123.70
35	BB	1069	A	N9-C4-C5	-9.82	101.87	105.80
35	BB	1339	G	C5-C6-O6	-9.82	122.71	128.60
35	BB	2141	G	N1-C6-O6	9.82	125.79	119.90
35	BB	2764	A	C4-C5-C6	9.82	121.91	117.00
1	AA	161	A	C5-C6-N1	-9.81	112.79	117.70
1	AA	441	A	C8-N9-C4	-9.81	101.87	105.80
1	AA	1177	G	C5-C6-O6	-9.81	122.71	128.60
1	AA	819	A	N7-C8-N9	9.81	118.71	113.80
1	AA	175	C	O4'-C1'-N1	9.81	116.05	108.20
1	AA	251	G	N1-C6-O6	9.81	125.79	119.90
35	BB	342	A	C4-C5-C6	9.81	121.91	117.00
35	BB	2410	G	C6-N1-C2	9.81	130.99	125.10
1	AA	580	C	N3-C4-C5	9.81	125.82	121.90
1	AA	912	C	C6-N1-C2	-9.81	116.38	120.30
35	BB	699	A	N1-C2-N3	9.81	134.21	129.30
35	BB	2422	C	O4'-C1'-N1	9.81	116.05	108.20
1	AA	448	A	N1-C2-N3	9.81	134.20	129.30
1	AA	1041	G	C4-C5-N7	9.80	114.72	110.80
35	BB	1591	A	C5-C6-N1	-9.81	112.80	117.70
1	AA	1465	A	C5-C6-N6	-9.80	115.86	123.70
35	BB	1233	C	C5-C4-N4	-9.80	113.34	120.20
34	BA	18	G	O4'-C1'-N9	9.80	116.04	108.20
35	BB	279	A	N7-C8-N9	9.80	118.70	113.80
35	BB	1162	G	O4'-C1'-N9	9.80	116.04	108.20
1	AA	419	C	C5-C4-N4	-9.80	113.34	120.20
35	BB	1179	G	N1-C2-N3	-9.80	118.02	123.90
35	BB	253	C	N3-C4-C5	-9.80	117.98	121.90
35	BB	1005	C	N3-C4-C5	-9.80	117.98	121.90
35	BB	1776	G	C5-C6-O6	-9.80	122.72	128.60
35	BB	1986	C	N3-C4-C5	-9.80	117.98	121.90
35	BB	98	G	N3-C4-C5	-9.80	123.70	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	925	A	N1-C6-N6	9.80	124.48	118.60
1	AA	360	G	C8-N9-C4	-9.79	102.48	106.40
1	AA	497	G	N1-C6-O6	9.79	125.78	119.90
35	BB	1290	C	O4'-C1'-N1	9.80	116.04	108.20
35	BB	1330	C	O4'-C1'-N1	9.79	116.03	108.20
35	BB	2458	G	N1-C6-O6	9.79	125.78	119.90
35	BB	1026	G	O4'-C1'-N9	9.79	116.03	108.20
35	BB	1085	A	C5-C6-N1	-9.79	112.80	117.70
35	BB	1880	U	O4'-C1'-N1	9.79	116.03	108.20
35	BB	2001	C	O4'-C1'-N1	9.79	116.03	108.20
35	BB	2116	G	C4-C5-C6	9.79	124.67	118.80
35	BB	2382	G	N1-C6-O6	9.79	125.78	119.90
1	AA	108	G	C4-C5-N7	9.79	114.72	110.80
1	AA	462	G	N3-C2-N2	9.79	126.75	119.90
35	BB	2013	A	N9-C4-C5	-9.79	101.88	105.80
1	AA	339	C	O4'-C1'-N1	9.79	116.03	108.20
1	AA	684	U	C6-N1-C2	-9.79	115.13	121.00
1	AA	728	A	C6-N1-C2	9.79	124.47	118.60
1	AA	877	G	O4'-C1'-N9	9.79	116.03	108.20
35	BB	211	C	N3-C2-O2	-9.79	115.05	121.90
35	BB	368	A	C5-N7-C8	9.79	108.79	103.90
35	BB	686	U	N1-C2-N3	-9.79	109.03	114.90
1	AA	1483	A	C4-C5-C6	9.79	121.89	117.00
34	BA	84	G	C4-C5-N7	9.79	114.72	110.80
35	BB	1383	A	O4'-C1'-N9	9.79	116.03	108.20
35	BB	1730	C	N3-C4-C5	-9.79	117.98	121.90
35	BB	1970	A	C4-C5-C6	9.79	121.89	117.00
35	BB	1361	G	N1-C6-O6	9.78	125.77	119.90
35	BB	2424	C	C5-C6-N1	-9.79	116.11	121.00
43	BJ	16	TYR	CB-CG-CD2	-9.79	115.13	121.00
1	AA	444	G	O4'-C1'-N9	9.78	116.03	108.20
1	AA	676	A	N7-C8-N9	-9.78	108.91	113.80
35	BB	1544	A	C5-C6-N6	-9.78	115.87	123.70
1	AA	714	G	N1-C6-O6	9.78	125.77	119.90
35	BB	240	C	C4-C5-C6	-9.78	112.51	117.40
35	BB	247	G	C5-C6-N1	-9.78	106.61	111.50
35	BB	1189	A	C5-N7-C8	9.78	108.79	103.90
35	BB	1948	G	C5-C6-O6	9.78	134.47	128.60
35	BB	1738	G	N9-C4-C5	-9.78	101.49	105.40
48	BO	102	ARG	NE-CZ-NH1	9.78	125.19	120.30
1	AA	786	G	O4'-C1'-N9	9.78	116.02	108.20
35	BB	394	C	O4'-C1'-N1	9.78	116.02	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2882	A	C5-C6-N6	-9.78	115.88	123.70
1	AA	1442	G	O4'-C1'-N9	9.77	116.02	108.20
35	BB	10	A	C4-C5-C6	9.77	121.89	117.00
35	BB	469	G	N1-C6-O6	9.77	125.77	119.90
1	AA	1147	C	N3-C4-C5	-9.77	117.99	121.90
22	AV	4	C	O4'-C1'-N1	9.77	116.02	108.20
35	BB	924	G	N7-C8-N9	-9.77	108.22	113.10
35	BB	1752	C	N3-C4-C5	-9.77	117.99	121.90
35	BB	2345	G	C6-C5-N7	-9.77	124.54	130.40
35	BB	2723	C	O4'-C1'-N1	9.77	116.02	108.20
1	AA	817	C	N3-C4-N4	9.77	124.84	118.00
12	AL	13	ARG	NE-CZ-NH1	9.77	125.19	120.30
35	BB	1510	G	N1-C6-O6	9.77	125.76	119.90
35	BB	2204	G	O4'-C1'-N9	9.77	116.02	108.20
1	AA	115	G	N3-C2-N2	9.77	126.74	119.90
35	BB	159	G	C6-N1-C2	9.77	130.96	125.10
34	BA	60	C	O4'-C1'-N1	9.77	116.01	108.20
1	AA	217	C	O4'-C1'-N1	9.76	116.01	108.20
35	BB	977	G	C5-C6-O6	-9.76	122.74	128.60
35	BB	581	C	O4'-C1'-N1	9.76	116.01	108.20
35	BB	2508	G	O4'-C1'-N9	9.76	116.01	108.20
1	AA	306	A	C4-C5-C6	9.76	121.88	117.00
1	AA	969	A	C4-C5-C6	9.76	121.88	117.00
3	AC	171	ARG	NE-CZ-NH1	9.76	125.18	120.30
35	BB	2171	A	N1-C6-N6	9.76	124.46	118.60
35	BB	2839	G	N1-C6-O6	9.76	125.76	119.90
1	AA	756	C	N3-C4-N4	9.76	124.83	118.00
1	AA	1215	G	C2-N3-C4	9.76	116.78	111.90
34	BA	2	G	C5-C6-O6	-9.76	122.75	128.60
35	BB	276	U	C5-C4-O4	-9.76	120.05	125.90
35	BB	654	A	O4'-C1'-N9	9.76	116.00	108.20
1	AA	527	G	C5-C6-O6	-9.75	122.75	128.60
35	BB	401	A	N1-C6-N6	9.75	124.45	118.60
35	BB	624	C	C6-N1-C2	-9.75	116.40	120.30
35	BB	814	C	O4'-C1'-N1	9.75	116.00	108.20
1	AA	744	C	C6-N1-C2	9.75	124.20	120.30
1	AA	874	G	N3-C4-C5	-9.75	123.73	128.60
22	AV	7	G	P-O3'-C3'	9.75	131.40	119.70
35	BB	668	A	C5-C6-N6	-9.75	115.90	123.70
35	BB	916	G	C8-N9-C4	-9.75	102.50	106.40
35	BB	2448	A	C6-C5-N7	-9.75	125.47	132.30
35	BB	2635	A	C5-C6-N6	-9.75	115.90	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2681	C	N3-C4-N4	9.75	124.83	118.00
35	BB	240	C	C2-N3-C4	9.75	124.77	119.90
35	BB	383	C	O4'-C1'-N1	9.75	116.00	108.20
35	BB	1099	G	C2-N3-C4	9.75	116.77	111.90
1	AA	59	A	N3-C4-C5	-9.75	119.98	126.80
1	AA	254	G	C5-C6-N1	-9.75	106.63	111.50
35	BB	2375	G	O4'-C1'-N9	9.75	116.00	108.20
1	AA	577	G	C4-C5-C6	9.74	124.65	118.80
1	AA	1015	G	C5-C6-O6	-9.74	122.75	128.60
35	BB	411	G	C8-N9-C4	-9.74	102.50	106.40
35	BB	1556	C	N3-C4-C5	-9.74	118.00	121.90
35	BB	2627	G	N9-C4-C5	9.74	109.30	105.40
1	AA	445	G	N1-C6-O6	9.74	125.75	119.90
35	BB	54	G	N3-C4-C5	-9.74	123.73	128.60
35	BB	610	C	C6-N1-C2	-9.74	116.40	120.30
35	BB	2893	A	C5-C6-N1	-9.74	112.83	117.70
45	BL	2	ARG	NE-CZ-NH2	-9.74	115.43	120.30
35	BB	849	A	N1-C6-N6	9.74	124.44	118.60
35	BB	885	C	C5-C6-N1	9.74	125.87	121.00
35	BB	1136	G	C5-C6-O6	-9.74	122.76	128.60
35	BB	2178	C	C6-N1-C1'	-9.74	109.11	120.80
35	BB	2590	A	N1-C6-N6	9.74	124.44	118.60
35	BB	2791	G	C5-C6-O6	-9.74	122.76	128.60
35	BB	2447	G	N3-C2-N2	9.74	126.72	119.90
35	BB	2809	A	C5-C6-N1	-9.74	112.83	117.70
1	AA	307	C	C4-C5-C6	9.74	122.27	117.40
1	AA	621	A	O4'-C1'-N9	9.74	115.99	108.20
35	BB	1895	C	C4-C5-C6	9.74	122.27	117.40
35	BB	921	C	C6-N1-C2	-9.73	116.41	120.30
35	BB	245	G	N1-C6-O6	9.73	125.74	119.90
35	BB	1802	A	C5-C6-N1	-9.73	112.83	117.70
35	BB	920	A	N1-C6-N6	9.73	124.44	118.60
35	BB	1750	G	N1-C6-O6	9.73	125.74	119.90
35	BB	2309	A	N1-C6-N6	9.73	124.44	118.60
35	BB	2324	U	O4'-C1'-N1	9.73	115.98	108.20
1	AA	357	G	N1-C6-O6	9.73	125.74	119.90
1	AA	580	C	O4'-C1'-N1	9.73	115.98	108.20
1	AA	1350	A	N9-C4-C5	-9.73	101.91	105.80
1	AA	1413	A	C2-N3-C4	-9.73	105.74	110.60
35	BB	1932	A	N1-C6-N6	9.73	124.44	118.60
35	BB	2333	A	C6-N1-C2	-9.73	112.76	118.60
35	BB	2606	C	N3-C4-N4	9.73	124.81	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2767	C	C4-C5-C6	9.73	122.26	117.40
35	BB	1017	G	O4'-C1'-N9	9.73	115.98	108.20
1	AA	710	G	C4-C5-N7	-9.72	106.91	110.80
1	AA	1032	G	N1-C6-O6	9.72	125.73	119.90
1	AA	1348	U	O4'-C1'-N1	9.72	115.98	108.20
35	BB	1317	G	N1-C6-O6	9.72	125.73	119.90
23	AX	19	A	C4-C5-C6	9.72	121.86	117.00
35	BB	2089	C	N3-C4-N4	9.72	124.81	118.00
35	BB	2234	G	C4-C5-C6	9.72	124.63	118.80
35	BB	943	A	N1-C6-N6	9.72	124.43	118.60
35	BB	1589	U	C5-C4-O4	-9.72	120.07	125.90
35	BB	2635	A	N7-C8-N9	9.72	118.66	113.80
1	AA	505	G	C5-N7-C8	-9.72	99.44	104.30
1	AA	783	C	O4'-C1'-N1	9.72	115.97	108.20
35	BB	1071	G	N3-C2-N2	9.72	126.70	119.90
1	AA	1481	U	O4'-C1'-N1	9.72	115.97	108.20
35	BB	2421	G	N1-C6-O6	9.72	125.73	119.90
1	AA	813	U	N3-C4-C5	-9.71	108.77	114.60
35	BB	206	U	O4'-C1'-N1	9.71	115.97	108.20
35	BB	1735	A	C5-C6-N1	-9.71	112.84	117.70
35	BB	2586	U	O4'-C1'-N1	9.71	115.97	108.20
1	AA	1353	G	C2-N3-C4	9.71	116.76	111.90
1	AA	1520	C	N3-C4-N4	9.71	124.80	118.00
35	BB	881	G	N7-C8-N9	9.71	117.96	113.10
35	BB	1660	G	N1-C2-N3	-9.71	118.07	123.90
1	AA	501	C	O4'-C1'-N1	9.71	115.97	108.20
35	BB	1341	G	O4'-C1'-N9	9.71	115.97	108.20
35	BB	1709	U	O4'-C1'-N1	9.71	115.97	108.20
35	BB	1888	G	N1-C6-O6	9.71	125.73	119.90
35	BB	2283	C	C6-N1-C2	-9.71	116.42	120.30
1	AA	295	C	N3-C4-N4	9.71	124.80	118.00
1	AA	1082	A	C8-N9-C4	-9.71	101.92	105.80
35	BB	419	U	O4'-C1'-N1	9.71	115.97	108.20
35	BB	2129	C	N3-C4-C5	-9.71	118.02	121.90
1	AA	749	A	C5-C6-N1	-9.70	112.85	117.70
35	BB	293	U	C4-C5-C6	-9.71	113.88	119.70
35	BB	330	A	C2-N3-C4	-9.71	105.75	110.60
35	BB	354	A	C5-C6-N6	-9.71	115.94	123.70
35	BB	445	C	N3-C4-C5	-9.71	118.02	121.90
35	BB	507	A	C2-N3-C4	9.70	115.45	110.60
35	BB	1937	A	C6-N1-C2	9.71	124.42	118.60
39	BF	174	PHE	CB-CG-CD2	9.71	127.59	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	181	A	O4'-C1'-N9	9.70	115.96	108.20
1	AA	263	A	C4-C5-C6	9.70	121.85	117.00
1	AA	612	C	N3-C4-N4	9.70	124.79	118.00
1	AA	702	A	C5-C6-N6	-9.70	115.94	123.70
35	BB	152	A	C4-C5-C6	9.70	121.85	117.00
35	BB	498	G	N3-C2-N2	9.70	126.69	119.90
35	BB	1493	C	C2-N3-C4	9.70	124.75	119.90
35	BB	2262	U	O4'-C1'-N1	9.70	115.96	108.20
35	BB	2546	U	O4'-C1'-N1	9.70	115.96	108.20
35	BB	1514	G	C5-C6-O6	-9.70	122.78	128.60
35	BB	2785	C	O4'-C1'-N1	9.70	115.96	108.20
1	AA	603	U	O4'-C1'-N1	9.70	115.96	108.20
1	AA	849	G	P-O5'-C5'	9.70	136.42	120.90
34	BA	52	A	C4-C5-C6	9.70	121.85	117.00
35	BB	808	G	C6-C5-N7	-9.70	124.58	130.40
35	BB	816	C	N3-C4-N4	9.70	124.79	118.00
35	BB	1368	G	O4'-C1'-N9	9.70	115.96	108.20
35	BB	1913	A	C5-N7-C8	9.70	108.75	103.90
35	BB	2358	A	C5-C6-N6	-9.70	115.94	123.70
35	BB	2808	G	N3-C2-N2	9.70	126.69	119.90
35	BB	2853	C	O4'-C1'-N1	9.70	115.96	108.20
1	AA	890	G	N1-C2-N3	-9.70	118.08	123.90
36	BC	257	ARG	NE-CZ-NH2	-9.70	115.45	120.30
35	BB	2284	A	C4-C5-C6	9.69	121.85	117.00
1	AA	1269	A	N1-C2-N3	-9.69	124.45	129.30
35	BB	1390	U	N3-C4-C5	-9.69	108.78	114.60
1	AA	975	A	C5-C6-N1	-9.69	112.86	117.70
35	BB	600	G	C5-C6-O6	-9.69	122.79	128.60
35	BB	1303	G	O4'-C1'-N9	9.69	115.95	108.20
1	AA	1371	G	C5-C6-O6	-9.69	122.79	128.60
35	BB	696	G	C5-C6-N1	-9.69	106.66	111.50
34	BA	93	C	O4'-C1'-N1	9.69	115.95	108.20
35	BB	1147	A	C5-C6-N1	-9.69	112.86	117.70
35	BB	1482	G	C5-C6-N1	-9.69	106.66	111.50
35	BB	2060	A	N1-C6-N6	9.69	124.41	118.60
35	BB	2839	G	C5-C6-O6	-9.69	122.79	128.60
1	AA	1276	G	O4'-C1'-N9	9.68	115.95	108.20
35	BB	209	C	N3-C4-C5	-9.68	118.03	121.90
35	BB	2144	G	N1-C6-O6	9.68	125.71	119.90
35	BB	2351	G	C5-C6-O6	-9.68	122.79	128.60
35	BB	1852	U	N1-C2-N3	9.68	120.71	114.90
35	BB	1879	C	O4'-C1'-N1	9.68	115.95	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	329	G	C5-C6-N1	-9.68	106.66	111.50
35	BB	1457	U	O4'-C1'-N1	9.68	115.94	108.20
35	BB	2171	A	C4-C5-C6	9.68	121.84	117.00
1	AA	1318	A	O4'-C1'-N9	9.68	115.94	108.20
35	BB	1191	G	N1-C6-O6	9.68	125.71	119.90
1	AA	144	G	N1-C6-O6	9.68	125.70	119.90
1	AA	1104	G	C4-C5-N7	9.68	114.67	110.80
35	BB	686	U	O4'-C1'-N1	9.68	115.94	108.20
35	BB	1509	A	O4'-C1'-N9	9.68	115.94	108.20
35	BB	2676	C	C5-C6-N1	9.68	125.84	121.00
1	AA	69	G	N1-C6-O6	9.67	125.70	119.90
1	AA	299	G	N9-C4-C5	-9.67	101.53	105.40
1	AA	520	A	C5-C6-N6	-9.67	115.96	123.70
35	BB	1714	U	C5-C6-N1	-9.67	117.86	122.70
35	BB	20	C	O4'-C1'-N1	9.67	115.94	108.20
35	BB	409	G	O4'-C1'-N9	9.67	115.94	108.20
35	BB	2564	A	C8-N9-C4	-9.67	101.93	105.80
1	AA	771	G	C6-N1-C2	-9.67	119.30	125.10
1	AA	940	C	N3-C4-C5	-9.67	118.03	121.90
35	BB	1355	G	N1-C6-O6	9.67	125.70	119.90
35	BB	1635	A	N9-C4-C5	9.67	109.67	105.80
1	AA	192	A	C5-C6-N6	-9.67	115.97	123.70
35	BB	184	C	N3-C4-N4	9.67	124.77	118.00
35	BB	1253	A	N7-C8-N9	-9.67	108.97	113.80
35	BB	1686	C	N3-C4-C5	-9.67	118.03	121.90
35	BB	2627	G	O4'-C1'-N9	9.67	115.93	108.20
1	AA	863	U	C5-C6-N1	9.66	127.53	122.70
16	AP	56	ARG	NE-CZ-NH1	9.66	125.13	120.30
35	BB	2050	C	N3-C4-C5	-9.66	118.03	121.90
35	BB	2835	A	C5-N7-C8	9.66	108.73	103.90
35	BB	758	C	O4'-C1'-N1	9.66	115.93	108.20
35	BB	1115	G	C5-C6-N1	-9.66	106.67	111.50
35	BB	1503	A	C5-N7-C8	9.66	108.73	103.90
35	BB	1516	G	C6-C5-N7	-9.66	124.60	130.40
35	BB	2459	A	C5-C6-N6	-9.66	115.97	123.70
35	BB	2682	A	C5-C6-N6	-9.66	115.97	123.70
35	BB	2753	A	C4-C5-C6	9.66	121.83	117.00
1	AA	1289	A	C4-C5-C6	9.66	121.83	117.00
34	BA	26	C	N3-C4-N4	9.66	124.76	118.00
1	AA	366	A	C4-C5-C6	9.66	121.83	117.00
35	BB	255	A	N1-C6-N6	9.66	124.39	118.60
34	BA	109	A	N9-C4-C5	-9.66	101.94	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	105	G	N3-C2-N2	9.65	126.66	119.90
1	AA	1251	A	C6-C5-N7	-9.65	125.54	132.30
1	AA	1373	G	N3-C2-N2	9.65	126.66	119.90
35	BB	217	A	N1-C2-N3	-9.65	124.47	129.30
35	BB	1059	G	O4'-C1'-N9	9.65	115.92	108.20
35	BB	2856	A	N9-C4-C5	-9.65	101.94	105.80
35	BB	2120	G	N3-C2-N2	9.65	126.66	119.90
1	AA	805	C	O4'-C1'-N1	9.65	115.92	108.20
1	AA	1153	G	N1-C6-O6	9.65	125.69	119.90
35	BB	392	U	C6-N1-C2	-9.65	115.21	121.00
1	AA	484	G	C5-C6-O6	-9.65	122.81	128.60
35	BB	1598	A	C8-N9-C4	-9.65	101.94	105.80
34	BA	30	C	N3-C4-C5	-9.65	118.04	121.90
35	BB	1088	A	C5-C6-N6	-9.65	115.98	123.70
35	BB	1693	U	N3-C4-O4	9.65	126.15	119.40
1	AA	51	A	C2-N3-C4	9.65	115.42	110.60
1	AA	1516	G	N7-C8-N9	-9.65	108.28	113.10
35	BB	951	C	C5-C4-N4	-9.65	113.45	120.20
35	BB	1000	A	O4'-C1'-N9	9.65	115.92	108.20
1	AA	1454	G	C2-N3-C4	9.64	116.72	111.90
34	BA	107	G	C4-C5-N7	9.64	114.66	110.80
35	BB	1683	U	O4'-C1'-N1	9.64	115.92	108.20
1	AA	896	C	N3-C4-N4	9.64	124.75	118.00
1	AA	1169	A	O4'-C1'-N9	9.64	115.91	108.20
35	BB	533	G	N1-C2-N3	-9.64	118.12	123.90
35	BB	1329	U	N3-C4-O4	9.64	126.15	119.40
35	BB	1333	G	C6-C5-N7	-9.64	124.61	130.40
35	BB	2053	G	C8-N9-C4	9.64	110.26	106.40
35	BB	2424	C	C4-C5-C6	9.64	122.22	117.40
1	AA	784	A	O4'-C1'-N9	9.64	115.91	108.20
1	AA	102	G	N1-C6-O6	9.64	125.68	119.90
1	AA	505	G	C6-C5-N7	-9.64	124.62	130.40
35	BB	993	G	C8-N9-C4	-9.64	102.55	106.40
1	AA	657	U	N3-C2-O2	9.64	128.95	122.20
1	AA	924	C	N3-C4-C5	-9.64	118.05	121.90
1	AA	1012	A	N1-C2-N3	9.64	134.12	129.30
34	BA	19	C	C4-C5-C6	9.64	122.22	117.40
34	BA	53	A	C4-C5-C6	9.64	121.82	117.00
34	BA	76	G	C5-C6-O6	-9.64	122.82	128.60
1	AA	1191	A	C8-N9-C4	-9.64	101.94	105.80
1	AA	1520	C	C4-C5-C6	9.64	122.22	117.40
35	BB	1376	C	N3-C4-C5	-9.63	118.05	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2465	C	O4'-C1'-N1	9.63	115.91	108.20
1	AA	647	C	C6-N1-C2	9.63	124.15	120.30
1	AA	684	U	C5-C6-N1	9.63	127.52	122.70
35	BB	692	C	O4'-C1'-N1	9.63	115.90	108.20
35	BB	1566	A	C5-C6-N6	-9.63	116.00	123.70
1	AA	1147	C	O4'-C1'-N1	9.63	115.90	108.20
1	AA	300	A	N1-C6-N6	9.63	124.38	118.60
1	AA	1257	A	C5-C6-N6	-9.63	116.00	123.70
34	BA	75	G	N7-C8-N9	-9.63	108.29	113.10
35	BB	260	G	O4'-C1'-N9	9.63	115.90	108.20
35	BB	945	A	N7-C8-N9	-9.63	108.99	113.80
35	BB	1054	A	C4-C5-N7	-9.63	105.89	110.70
35	BB	57	C	C3'-C2'-C1'	9.62	109.20	101.50
35	BB	256	A	O4'-C1'-N9	9.62	115.90	108.20
35	BB	717	C	C6-N1-C2	9.62	124.15	120.30
35	BB	1558	C	N3-C4-N4	9.62	124.74	118.00
1	AA	81	A	C5-C6-N6	-9.62	116.00	123.70
35	BB	326	G	C5-C6-N1	-9.62	106.69	111.50
35	BB	1071	G	C6-C5-N7	-9.62	124.63	130.40
35	BB	2337	G	C8-N9-C4	-9.62	102.55	106.40
35	BB	2524	G	N7-C8-N9	9.62	117.91	113.10
1	AA	999	C	O4'-C1'-N1	9.62	115.89	108.20
30	B5	51	ASP	CB-CG-OD1	9.62	126.96	118.30
35	BB	1396	U	O4'-C1'-N1	9.62	115.90	108.20
35	BB	2436	G	N1-C6-O6	9.62	125.67	119.90
35	BB	297	G	N1-C6-O6	9.62	125.67	119.90
35	BB	2570	G	C4-C5-N7	-9.62	106.95	110.80
35	BB	1439	A	N7-C8-N9	-9.62	108.99	113.80
35	BB	2360	G	C5-N7-C8	9.62	109.11	104.30
35	BB	2843	G	N1-C2-N3	-9.62	118.13	123.90
1	AA	24	U	C2-N3-C4	-9.62	121.23	127.00
35	BB	1734	G	N1-C2-N3	-9.61	118.13	123.90
35	BB	2327	A	O4'-C1'-N9	9.62	115.89	108.20
35	BB	494	G	C8-N9-C4	-9.61	102.56	106.40
35	BB	2289	G	C2-N3-C4	-9.61	107.09	111.90
46	BM	18	ARG	NE-CZ-NH1	-9.61	115.50	120.30
1	AA	1055	A	C5-C6-N1	-9.61	112.90	117.70
35	BB	2148	G	N1-C2-N3	-9.61	118.14	123.90
1	AA	341	C	O4'-C1'-N1	9.61	115.89	108.20
1	AA	1360	A	C5-C6-N1	-9.61	112.90	117.70
35	BB	678	C	C4-C5-C6	9.61	122.20	117.40
1	AA	402	G	N3-C4-C5	-9.60	123.80	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1475	G	C5-C6-O6	-9.60	122.84	128.60
35	BB	1359	A	N1-C6-N6	9.60	124.36	118.60
35	BB	1840	G	N1-C2-N3	-9.60	118.14	123.90
1	AA	29	U	C3'-C2'-C1'	9.60	109.18	101.50
1	AA	625	U	N1-C2-O2	-9.60	116.08	122.80
35	BB	218	A	C5-C6-N6	-9.60	116.02	123.70
35	BB	590	A	N1-C6-N6	9.60	124.36	118.60
35	BB	680	C	C6-N1-C2	-9.60	116.46	120.30
35	BB	2180	U	C5-C4-O4	-9.60	120.14	125.90
1	AA	1028	C	C5-C6-N1	9.60	125.80	121.00
1	AA	1534	A	C5-C6-N1	-9.60	112.90	117.70
35	BB	252	G	O4'-C1'-N9	9.60	115.88	108.20
1	AA	760	G	O4'-C1'-N9	9.60	115.88	108.20
1	AA	922	G	N1-C6-O6	9.60	125.66	119.90
35	BB	638	G	C6-C5-N7	-9.60	124.64	130.40
35	BB	2550	G	N3-C4-N9	9.60	131.76	126.00
35	BB	458	G	C4-C5-C6	9.59	124.56	118.80
35	BB	2639	A	C5-C6-N6	-9.59	116.02	123.70
1	AA	231	U	O4'-C1'-N1	9.59	115.87	108.20
1	AA	334	C	O4'-C1'-N1	9.59	115.87	108.20
1	AA	759	A	C8-N9-C4	-9.59	101.96	105.80
1	AA	947	G	N3-C2-N2	9.59	126.61	119.90
35	BB	116	C	N3-C4-N4	9.59	124.71	118.00
1	AA	1034	G	O4'-C1'-N9	9.59	115.87	108.20
1	AA	1299	A	C5-C6-N1	-9.59	112.91	117.70
35	BB	75	G	C4-C5-N7	-9.59	106.97	110.80
35	BB	643	A	C4-C5-C6	9.59	121.80	117.00
35	BB	656	G	N9-C4-C5	9.59	109.24	105.40
35	BB	2679	A	O4'-C1'-N9	9.59	115.87	108.20
1	AA	217	C	N3-C4-N4	9.59	124.71	118.00
1	AA	592	G	N9-C4-C5	9.59	109.23	105.40
35	BB	1047	G	N1-C2-N3	-9.59	118.15	123.90
35	BB	2020	A	C5-C6-N6	-9.59	116.03	123.70
35	BB	273	G	C8-N9-C4	-9.59	102.57	106.40
35	BB	1772	A	C5-C6-N6	-9.59	116.03	123.70
35	BB	1888	G	C5-N7-C8	9.59	109.09	104.30
35	BB	2712	C	N1-C2-O2	9.59	124.65	118.90
1	AA	1225	A	C1'-O4'-C4'	9.58	117.57	109.90
35	BB	48	G	N1-C2-N3	-9.58	118.15	123.90
35	BB	763	G	C4-C5-N7	-9.58	106.97	110.80
35	BB	1194	A	N1-C6-N6	9.58	124.35	118.60
35	BB	1420	A	C6-C5-N7	-9.58	125.59	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1823	G	C6-N1-C2	9.58	130.85	125.10
35	BB	1978	A	C5-C6-N6	-9.58	116.03	123.70
35	BB	1982	U	C5-C4-O4	-9.58	120.15	125.90
27	B2	44	ARG	NE-CZ-NH1	-9.58	115.51	120.30
35	BB	1823	G	O4'-C1'-N9	9.58	115.86	108.20
35	BB	2638	G	N1-C6-O6	9.58	125.65	119.90
1	AA	459	A	C5-C6-N1	-9.58	112.91	117.70
1	AA	1480	A	C5-C6-N6	-9.58	116.04	123.70
35	BB	827	U	O4'-C1'-N1	9.58	115.86	108.20
35	BB	989	G	C8-N9-C4	-9.58	102.57	106.40
35	BB	1365	A	N1-C6-N6	9.58	124.35	118.60
35	BB	1822	C	P-O3'-C3'	-9.58	108.21	119.70
35	BB	2135	A	O4'-C1'-N9	9.58	115.86	108.20
35	BB	2749	A	O4'-C1'-N9	9.58	115.86	108.20
1	AA	31	G	C6-C5-N7	-9.58	124.65	130.40
35	BB	699	A	N1-C6-N6	9.58	124.35	118.60
1	AA	1032	G	N3-C2-N2	9.58	126.60	119.90
1	AA	1036	A	C5-C6-N6	-9.58	116.04	123.70
35	BB	91	A	C2-N3-C4	9.58	115.39	110.60
35	BB	411	G	N9-C4-C5	9.58	109.23	105.40
35	BB	674	G	N1-C6-O6	9.58	125.65	119.90
35	BB	770	G	O4'-C1'-N9	9.58	115.86	108.20
35	BB	1912	A	C5-C6-N1	-9.58	112.91	117.70
35	BB	2014	A	C4-C5-C6	9.58	121.79	117.00
35	BB	2476	A	C6-C5-N7	-9.57	125.60	132.30
1	AA	124	C	O4'-C1'-N1	9.57	115.86	108.20
1	AA	1478	U	O4'-C1'-N1	9.57	115.86	108.20
35	BB	79	C	N3-C4-C5	-9.57	118.07	121.90
35	BB	1634	A	C5-C6-N6	-9.57	116.04	123.70
35	BB	1507	C	C6-N1-C2	-9.57	116.47	120.30
35	BB	1984	G	N9-C4-C5	-9.57	101.57	105.40
35	BB	2565	A	N1-C6-N6	9.57	124.34	118.60
1	AA	602	A	C8-N9-C4	-9.57	101.97	105.80
1	AA	946	A	C5-C6-N6	-9.57	116.04	123.70
35	BB	475	C	C2-N3-C4	9.57	124.69	119.90
35	BB	911	A	C4-C5-C6	9.57	121.78	117.00
35	BB	943	A	C6-C5-N7	-9.57	125.60	132.30
1	AA	752	G	C2-N3-C4	9.57	116.68	111.90
1	AA	1503	A	N1-C6-N6	9.57	124.34	118.60
35	BB	1913	A	C4-C5-C6	9.57	121.78	117.00
1	AA	243	A	C4-C5-C6	9.57	121.78	117.00
1	AA	362	G	N1-C6-O6	9.57	125.64	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	116	C	N3-C4-C5	-9.57	118.07	121.90
35	BB	1240	U	N1-C2-N3	-9.57	109.16	114.90
35	BB	2830	C	C6-N1-C2	-9.57	116.47	120.30
35	BB	2076	U	O4'-C4'-C3'	-9.57	94.43	104.00
35	BB	2332	C	C6-N1-C2	-9.57	116.47	120.30
35	BB	2737	G	N1-C6-O6	9.57	125.64	119.90
1	AA	429	U	N3-C4-O4	9.56	126.09	119.40
1	AA	447	G	N1-C6-O6	9.56	125.64	119.90
1	AA	796	C	N3-C4-N4	9.56	124.69	118.00
1	AA	1329	A	C2-N3-C4	9.56	115.38	110.60
34	BA	44	G	N1-C6-O6	9.56	125.64	119.90
35	BB	1755	A	N1-C6-N6	9.56	124.34	118.60
35	BB	543	G	N1-C6-O6	9.56	125.64	119.90
35	BB	2777	G	C8-N9-C4	9.56	110.23	106.40
1	AA	335	C	C5-C6-N1	9.56	125.78	121.00
35	BB	1087	G	N1-C6-O6	9.56	125.64	119.90
35	BB	2470	G	N1-C6-O6	9.56	125.64	119.90
35	BB	2773	C	N3-C4-C5	-9.56	118.08	121.90
35	BB	161	A	N9-C4-C5	9.56	109.62	105.80
35	BB	802	A	C8-N9-C4	-9.56	101.98	105.80
35	BB	2463	C	C5-C4-N4	-9.56	113.51	120.20
1	AA	57	G	C2-N3-C4	9.56	116.68	111.90
1	AA	315	A	P-O3'-C3'	9.56	131.17	119.70
1	AA	1261	A	C5-C6-N6	-9.56	116.05	123.70
1	AA	1365	G	N1-C2-N3	-9.56	118.16	123.90
35	BB	110	G	O4'-C1'-N9	9.56	115.85	108.20
35	BB	656	G	C6-C5-N7	-9.56	124.66	130.40
1	AA	331	G	N1-C6-O6	9.56	125.63	119.90
35	BB	245	G	N9-C4-C5	9.56	109.22	105.40
35	BB	901	C	O4'-C1'-N1	9.56	115.85	108.20
35	BB	1432	G	N9-C4-C5	-9.56	101.58	105.40
1	AA	1236	A	C5-C6-N1	-9.55	112.92	117.70
35	BB	1271	G	N1-C6-O6	9.56	125.63	119.90
35	BB	1532	A	N3-C4-C5	-9.56	120.11	126.80
35	BB	173	A	N7-C8-N9	-9.55	109.02	113.80
35	BB	1694	C	N3-C4-N4	9.55	124.69	118.00
35	BB	2261	C	C6-N1-C2	-9.55	116.48	120.30
35	BB	2481	G	N3-C2-N2	9.55	126.59	119.90
35	BB	2729	G	C6-C5-N7	-9.55	124.67	130.40
1	AA	151	A	N1-C6-N6	9.55	124.33	118.60
1	AA	356	A	O4'-C1'-N9	9.55	115.84	108.20
1	AA	758	C	C5-C4-N4	-9.55	113.51	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	809	G	C4-C5-C6	9.55	124.53	118.80
1	AA	1385	G	O4'-C1'-N9	9.55	115.84	108.20
35	BB	1364	G	N3-C4-C5	9.55	133.37	128.60
35	BB	1899	A	C6-N1-C2	-9.55	112.87	118.60
35	BB	1930	G	N1-C2-N3	-9.55	118.17	123.90
35	BB	2199	A	C5-C6-N1	-9.55	112.93	117.70
35	BB	2706	A	C4-C5-C6	9.55	121.77	117.00
1	AA	449	G	N1-C6-O6	9.54	125.63	119.90
35	BB	417	C	C2-N3-C4	9.54	124.67	119.90
35	BB	2341	G	N1-C2-N3	-9.54	118.17	123.90
35	BB	2573	C	N3-C4-C5	-9.55	118.08	121.90
1	AA	158	G	N9-C4-C5	9.54	109.22	105.40
3	AC	35	ASP	CB-CG-OD1	9.54	126.89	118.30
34	BA	31	C	O4'-C1'-N1	9.54	115.83	108.20
40	BG	169	ARG	NE-CZ-NH1	-9.54	115.53	120.30
35	BB	252	G	N1-C6-O6	9.54	125.62	119.90
35	BB	733	G	C5-N7-C8	9.54	109.07	104.30
35	BB	2535	G	N9-C4-C5	-9.54	101.58	105.40
56	BY	10	ARG	NE-CZ-NH1	9.54	125.07	120.30
1	AA	219	U	O4'-C1'-N1	9.54	115.83	108.20
1	AA	553	A	N1-C2-N3	9.54	134.07	129.30
1	AA	1139	G	C5-C6-O6	-9.54	122.88	128.60
35	BB	184	C	C5-C4-N4	-9.54	113.52	120.20
1	AA	1488	G	C4-C5-N7	-9.54	106.98	110.80
35	BB	371	A	C2-N3-C4	-9.54	105.83	110.60
35	BB	901	C	P-O5'-C5'	9.54	136.16	120.90
35	BB	1576	U	O4'-C1'-N1	9.54	115.83	108.20
1	AA	115	G	C6-C5-N7	-9.53	124.68	130.40
1	AA	682	G	C6-C5-N7	-9.54	124.68	130.40
1	AA	700	G	N1-C6-O6	9.53	125.62	119.90
1	AA	1304	G	N7-C8-N9	9.53	117.87	113.10
2	AB	21	TYR	CB-CG-CD1	-9.53	115.28	121.00
19	AS	35	ARG	NE-CZ-NH1	9.54	125.07	120.30
34	BA	110	C	N3-C4-C5	-9.54	118.09	121.90
35	BB	649	G	O4'-C1'-N9	9.53	115.83	108.20
35	BB	739	A	C5-C6-N1	-9.53	112.93	117.70
1	AA	23	C	O4'-C1'-N1	9.53	115.83	108.20
1	AA	179	A	C5-C6-N6	-9.53	116.08	123.70
1	AA	1357	A	C5-C6-N6	-9.53	116.07	123.70
35	BB	870	U	N1-C2-N3	-9.53	109.18	114.90
35	BB	1951	U	C5-C6-N1	-9.53	117.93	122.70
35	BB	2736	A	C5-C6-N1	-9.53	112.93	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	491	G	O4'-C1'-N9	9.53	115.82	108.20
35	BB	2710	C	O4'-C1'-N1	9.53	115.82	108.20
1	AA	1014	A	N1-C6-N6	9.53	124.32	118.60
1	AA	1217	C	O4'-C1'-N1	9.53	115.82	108.20
35	BB	1672	A	C8-N9-C4	-9.53	101.99	105.80
35	BB	1802	A	N1-C6-N6	9.53	124.32	118.60
1	AA	1327	C	C5-C6-N1	9.53	125.76	121.00
35	BB	275	C	N3-C4-C5	-9.53	118.09	121.90
35	BB	805	G	C4-C5-C6	9.53	124.52	118.80
35	BB	2142	A	N1-C6-N6	9.53	124.32	118.60
35	BB	2069	G	C8-N9-C4	9.53	110.21	106.40
35	BB	2674	G	N1-C6-O6	9.53	125.61	119.90
35	BB	2719	G	C6-C5-N7	-9.53	124.68	130.40
34	BA	41	G	C5-C6-O6	-9.52	122.89	128.60
35	BB	1126	A	C5-N7-C8	9.52	108.66	103.90
37	BD	82	PHE	CB-CG-CD1	9.52	127.47	120.80
1	AA	668	G	N1-C6-O6	9.52	125.61	119.90
35	BB	842	U	O4'-C1'-N1	9.52	115.82	108.20
35	BB	964	C	N3-C4-N4	9.52	124.67	118.00
35	BB	2072	C	N3-C4-C5	-9.52	118.09	121.90
35	BB	1867	G	N1-C2-N3	-9.52	118.19	123.90
1	AA	159	G	C5-C6-O6	-9.52	122.89	128.60
1	AA	356	A	C5-C6-N6	-9.52	116.08	123.70
1	AA	1323	G	C2-N3-C4	-9.52	107.14	111.90
35	BB	13	A	C1'-O4'-C4'	9.52	117.51	109.90
1	AA	299	G	O4'-C1'-N9	9.51	115.81	108.20
35	BB	230	G	C6-C5-N7	-9.51	124.69	130.40
35	BB	1776	G	N1-C6-O6	9.51	125.61	119.90
35	BB	2592	G	C5-C6-O6	-9.51	122.89	128.60
35	BB	2759	G	N9-C4-C5	-9.51	101.59	105.40
35	BB	2843	G	C5-C6-O6	-9.51	122.89	128.60
1	AA	1333	A	C5-C6-N6	-9.51	116.09	123.70
34	BA	97	C	C5-C4-N4	-9.51	113.54	120.20
35	BB	3	U	C5-C4-O4	-9.51	120.19	125.90
35	BB	487	C	N3-C4-N4	9.51	124.66	118.00
35	BB	528	A	O4'-C1'-N9	9.51	115.81	108.20
35	BB	547	A	C4-C5-C6	9.51	121.75	117.00
35	BB	663	G	C8-N9-C4	-9.51	102.60	106.40
35	BB	932	U	O4'-C1'-N1	9.51	115.81	108.20
35	BB	945	A	C5-N7-C8	9.51	108.65	103.90
35	BB	2712	C	N3-C4-C5	-9.51	118.10	121.90
35	BB	2801	G	C2-N3-C4	9.51	116.65	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	546	A	N1-C6-N6	9.51	124.31	118.60
34	BA	15	A	C6-C5-N7	-9.51	125.64	132.30
35	BB	683	U	N1-C2-O2	-9.51	116.14	122.80
35	BB	1939	U	C5-C4-O4	-9.51	120.20	125.90
35	BB	2468	A	N9-C4-C5	9.51	109.60	105.80
35	BB	458	G	N1-C6-O6	9.51	125.60	119.90
35	BB	1774	C	O4'-C1'-N1	9.51	115.81	108.20
1	AA	187	G	C5-C6-O6	-9.50	122.90	128.60
1	AA	847	G	C5-C6-O6	-9.50	122.90	128.60
1	AA	50	A	N1-C2-N3	-9.50	124.55	129.30
1	AA	676	A	C4-C5-C6	9.50	121.75	117.00
1	AA	799	G	N3-C2-N2	9.50	126.55	119.90
35	BB	1426	G	C6-C5-N7	-9.50	124.70	130.40
35	BB	1713	A	C5-C6-N6	-9.50	116.10	123.70
35	BB	2445	G	C5-C6-O6	-9.50	122.90	128.60
1	AA	1250	A	O4'-C1'-N9	9.50	115.80	108.20
1	AA	1516	G	O4'-C1'-N9	9.50	115.80	108.20
35	BB	1230	A	C5-C6-N1	-9.50	112.95	117.70
35	BB	2273	A	N1-C6-N6	9.50	124.30	118.60
34	BA	8	C	O4'-C1'-N1	9.50	115.80	108.20
53	BT	79	ASP	CB-CG-OD1	9.50	126.85	118.30
35	BB	862	G	C8-N9-C4	-9.50	102.60	106.40
35	BB	1779	U	C5-C6-N1	9.50	127.45	122.70
35	BB	2458	G	C5-C6-O6	-9.50	122.90	128.60
35	BB	2614	A	C6-C5-N7	-9.50	125.65	132.30
35	BB	2222	C	N3-C4-N4	9.49	124.65	118.00
1	AA	668	G	C8-N9-C4	9.49	110.20	106.40
1	AA	893	C	N3-C4-N4	9.49	124.64	118.00
30	B5	43	ASP	CB-CG-OD1	9.49	126.84	118.30
35	BB	156	A	C5-C6-N6	-9.49	116.11	123.70
1	AA	724	G	N1-C6-O6	9.49	125.59	119.90
35	BB	19	A	N9-C4-C5	9.49	109.60	105.80
35	BB	1322	A	C6-N1-C2	9.49	124.29	118.60
35	BB	1395	A	N1-C6-N6	9.49	124.29	118.60
35	BB	2655	G	N1-C6-O6	9.49	125.59	119.90
34	BA	99	A	C4-C5-C6	9.49	121.74	117.00
35	BB	413	C	N3-C4-N4	9.49	124.64	118.00
35	BB	1628	G	C4-C5-N7	9.49	114.59	110.80
35	BB	2666	C	C2-N1-C1'	9.49	129.24	118.80
1	AA	975	A	C5-C6-N6	-9.48	116.11	123.70
35	BB	1586	A	N1-C6-N6	9.48	124.29	118.60
1	AA	927	G	C5-C6-N1	-9.48	106.76	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	877	A	C5-C6-N1	-9.48	112.96	117.70
35	BB	2894	G	C5-C6-O6	-9.48	122.91	128.60
35	BB	72	U	N1-C2-O2	9.48	129.44	122.80
35	BB	1770	G	C5-C6-O6	-9.48	122.91	128.60
35	BB	1716	U	O4'-C1'-N1	9.48	115.78	108.20
35	BB	1729	U	O4'-C1'-N1	9.48	115.78	108.20
35	BB	2294	G	C5-N7-C8	9.48	109.04	104.30
1	AA	491	G	N7-C8-N9	9.48	117.84	113.10
1	AA	516	U	C5-C4-O4	9.48	131.59	125.90
1	AA	1253	G	N1-C6-O6	9.48	125.59	119.90
35	BB	67	U	O4'-C1'-N1	9.48	115.78	108.20
43	BJ	96	ARG	NE-CZ-NH2	9.48	125.04	120.30
23	AX	19	A	C5-C6-N1	-9.48	112.96	117.70
34	BA	67	G	N7-C8-N9	9.48	117.84	113.10
35	BB	1059	G	C5-C6-O6	-9.48	122.91	128.60
35	BB	1529	G	N3-C4-C5	9.48	133.34	128.60
35	BB	1891	G	C5-C6-O6	-9.48	122.91	128.60
35	BB	2447	G	N3-C4-C5	9.48	133.34	128.60
35	BB	2475	C	P-O3'-C3'	9.48	131.07	119.70
1	AA	127	G	N1-C6-O6	9.47	125.58	119.90
34	BA	83	G	C5-C6-O6	-9.47	122.92	128.60
35	BB	493	G	N7-C8-N9	9.47	117.84	113.10
35	BB	722	A	C8-N9-C4	-9.47	102.01	105.80
35	BB	1954	G	N3-C2-N2	9.47	126.53	119.90
35	BB	2176	A	N1-C6-N6	9.47	124.28	118.60
35	BB	1830	C	O4'-C1'-N1	9.47	115.78	108.20
35	BB	2177	C	O4'-C1'-N1	9.47	115.78	108.20
35	BB	2421	G	C5-N7-C8	9.47	109.04	104.30
35	BB	2543	G	O4'-C1'-N9	9.47	115.78	108.20
1	AA	925	G	N3-C2-N2	9.47	126.53	119.90
1	AA	1042	A	C2-N3-C4	-9.47	105.86	110.60
35	BB	1287	A	C4-C5-N7	-9.47	105.96	110.70
35	BB	878	A	C5-C6-N6	-9.47	116.12	123.70
35	BB	2114	A	C5-C6-N6	-9.47	116.12	123.70
35	BB	2627	G	N3-C4-C5	-9.47	123.86	128.60
1	AA	512	U	N3-C4-O4	9.47	126.03	119.40
22	AV	46	G	N1-C6-O6	9.47	125.58	119.90
35	BB	792	A	C4-C5-C6	9.47	121.73	117.00
35	BB	1877	A	N1-C6-N6	9.47	124.28	118.60
1	AA	1253	G	N9-C4-C5	-9.47	101.61	105.40
35	BB	274	C	N3-C4-N4	9.46	124.62	118.00
35	BB	788	A	C5-C6-N6	-9.46	116.13	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1459	G	P-O3'-C3'	9.46	131.06	119.70
35	BB	1890	A	C5-C6-N1	-9.46	112.97	117.70
1	AA	378	G	N1-C2-N3	-9.46	118.22	123.90
35	BB	1257	C	C5-C4-N4	-9.46	113.58	120.20
1	AA	417	G	O4'-C1'-N9	9.46	115.77	108.20
1	AA	1280	A	C5-C6-N6	-9.46	116.13	123.70
35	BB	1163	G	C5-C6-O6	-9.46	122.92	128.60
35	BB	1550	C	O4'-C1'-N1	9.46	115.77	108.20
35	BB	2527	C	N3-C4-N4	9.46	124.62	118.00
35	BB	731	C	O4'-C1'-N1	9.46	115.77	108.20
35	BB	1907	G	C8-N9-C4	-9.46	102.62	106.40
35	BB	2335	A	C6-N1-C2	9.46	124.28	118.60
1	AA	780	A	C5-C6-N1	-9.46	112.97	117.70
35	BB	475	C	N3-C4-C5	-9.46	118.12	121.90
35	BB	733	G	N1-C2-N3	-9.46	118.23	123.90
35	BB	1429	G	N3-C2-N2	9.46	126.52	119.90
1	AA	47	C	C5-C6-N1	9.46	125.73	121.00
1	AA	755	G	C8-N9-C4	-9.45	102.62	106.40
1	AA	1055	A	C4-C5-C6	9.46	121.73	117.00
1	AA	1243	C	C6-N1-C2	9.46	124.08	120.30
1	AA	1079	G	N1-C6-O6	9.45	125.57	119.90
35	BB	1509	A	C5-C6-N6	-9.45	116.14	123.70
35	BB	1757	A	C5-C6-N6	-9.46	116.14	123.70
35	BB	2061	G	C8-N9-C4	-9.45	102.62	106.40
35	BB	2462	C	O4'-C1'-N1	9.46	115.76	108.20
1	AA	125	U	O4'-C1'-N1	9.45	115.76	108.20
1	AA	1041	G	N9-C4-C5	-9.45	101.62	105.40
1	AA	1189	U	N3-C2-O2	9.45	128.82	122.20
1	AA	1307	U	C2-N3-C4	-9.45	121.33	127.00
35	BB	1653	G	N1-C2-N3	-9.45	118.23	123.90
35	BB	2138	G	N1-C6-O6	9.45	125.57	119.90
1	AA	89	U	O4'-C1'-N1	9.45	115.76	108.20
35	BB	247	G	N7-C8-N9	-9.45	108.38	113.10
35	BB	1197	G	O4'-C1'-N9	9.45	115.76	108.20
35	BB	1784	A	N9-C4-C5	-9.45	102.02	105.80
35	BB	2399	G	N3-C2-N2	9.45	126.52	119.90
35	BB	2861	U	C4-C5-C6	9.45	125.37	119.70
1	AA	518	C	O4'-C1'-N1	9.45	115.76	108.20
1	AA	577	G	N3-C4-N9	9.45	131.67	126.00
35	BB	16	C	O4'-C1'-N1	9.45	115.76	108.20
35	BB	1575	C	N3-C4-N4	9.45	124.61	118.00
35	BB	88	G	C2-N3-C4	9.45	116.62	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1794	A	N7-C8-N9	-9.45	109.08	113.80
35	BB	1722	A	C2-N3-C4	-9.44	105.88	110.60
1	AA	487	A	C4-C5-C6	9.44	121.72	117.00
35	BB	1383	A	C4-C5-C6	9.44	121.72	117.00
35	BB	2439	A	C6-C5-N7	-9.44	125.69	132.30
48	BO	2	ASP	CB-CG-OD2	-9.44	109.80	118.30
35	BB	998	C	C2-N3-C4	-9.44	115.18	119.90
1	AA	169	C	C5-C4-N4	-9.44	113.59	120.20
1	AA	1497	G	N1-C2-N3	-9.44	118.24	123.90
35	BB	88	G	N3-C2-N2	9.44	126.51	119.90
35	BB	807	U	C4'-C3'-C2'	-9.44	93.16	102.60
35	BB	1375	U	C4-C5-C6	-9.44	114.04	119.70
35	BB	1516	G	C5-N7-C8	-9.44	99.58	104.30
1	AA	67	C	C4-C5-C6	9.44	122.12	117.40
1	AA	847	G	N3-C4-N9	9.44	131.66	126.00
22	AV	32	A	N7-C8-N9	-9.44	109.08	113.80
35	BB	622	G	O4'-C1'-N9	9.44	115.75	108.20
35	BB	1874	C	C6-N1-C2	-9.44	116.53	120.30
35	BB	1893	C	N3-C4-N4	9.44	124.61	118.00
35	BB	2850	A	N1-C2-N3	-9.44	124.58	129.30
35	BB	2446	G	N3-C2-N2	9.44	126.50	119.90
35	BB	2531	A	C4-C5-C6	9.44	121.72	117.00
1	AA	207	C	C2-N3-C4	-9.43	115.18	119.90
35	BB	335	C	N3-C4-C5	-9.43	118.13	121.90
35	BB	1023	U	C5-C4-O4	-9.43	120.24	125.90
1	AA	477	C	N3-C4-C5	-9.43	118.13	121.90
1	AA	1109	C	O4'-C1'-N1	9.43	115.75	108.20
1	AA	674	G	C5-C6-O6	-9.43	122.94	128.60
1	AA	682	G	C5-C6-O6	-9.43	122.94	128.60
22	AV	10	G	N1-C6-O6	9.43	125.56	119.90
34	BA	118	C	C2-N3-C4	9.43	124.61	119.90
34	BA	118	C	C6-N1-C2	-9.43	116.53	120.30
35	BB	973	A	N1-C6-N6	9.43	124.26	118.60
1	AA	29	U	C6-N1-C2	9.43	126.66	121.00
1	AA	1152	A	C4-C5-C6	9.43	121.71	117.00
1	AA	1170	A	C4-C5-C6	9.43	121.71	117.00
1	AA	1439	G	N1-C6-O6	9.43	125.56	119.90
1	AA	1455	G	C5-C6-O6	-9.43	122.94	128.60
35	BB	2415	G	N3-C2-N2	9.43	126.50	119.90
22	AV	65	U	P-O3'-C3'	9.43	131.01	119.70
35	BB	854	C	N3-C4-N4	9.43	124.60	118.00
35	BB	1279	G	C5-C6-O6	-9.43	122.94	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2503	A	C4-C5-C6	9.43	121.71	117.00
35	BB	1611	C	C2-N3-C4	9.43	124.61	119.90
1	AA	758	C	O4'-C1'-N1	9.42	115.74	108.20
1	AA	808	C	O4'-C1'-N1	9.42	115.74	108.20
35	BB	636	G	N1-C6-O6	9.42	125.56	119.90
35	BB	700	G	C5-C6-O6	-9.42	122.95	128.60
35	BB	1851	U	O4'-C1'-N1	9.42	115.74	108.20
35	BB	80	G	N3-C2-N2	9.42	126.49	119.90
35	BB	2378	A	C4-C5-N7	-9.42	105.99	110.70
1	AA	295	C	C5-C6-N1	9.42	125.71	121.00
1	AA	606	G	C5-C6-O6	-9.42	122.95	128.60
1	AA	890	G	C5-C6-N1	-9.42	106.79	111.50
35	BB	584	C	O4'-C1'-N1	9.42	115.74	108.20
35	BB	1118	C	O4'-C1'-N1	9.42	115.74	108.20
35	BB	350	G	C4-C5-C6	9.42	124.45	118.80
35	BB	1588	G	C6-C5-N7	-9.42	124.75	130.40
35	BB	2335	A	C4-C5-C6	9.42	121.71	117.00
1	AA	1314	C	O4'-C1'-N1	9.42	115.73	108.20
1	AA	1322	C	C4-C5-C6	-9.42	112.69	117.40
35	BB	458	G	O4'-C1'-N9	9.42	115.73	108.20
35	BB	961	C	N3-C4-N4	9.42	124.59	118.00
35	BB	2455	G	N3-C2-N2	9.42	126.49	119.90
35	BB	1888	G	N3-C2-N2	9.42	126.49	119.90
35	BB	876	C	O4'-C1'-N1	9.41	115.73	108.20
1	AA	539	A	C5-C6-N6	-9.41	116.17	123.70
1	AA	683	G	O4'-C1'-N9	9.41	115.73	108.20
35	BB	435	C	N3-C4-N4	9.41	124.59	118.00
35	BB	701	G	N3-C4-C5	9.41	133.31	128.60
35	BB	1606	C	N3-C4-C5	-9.41	118.13	121.90
35	BB	2345	G	O4'-C1'-N9	9.41	115.73	108.20
35	BB	1891	G	O4'-C1'-N9	9.41	115.73	108.20
35	BB	2184	A	N1-C2-N3	-9.41	124.59	129.30
1	AA	1434	A	C2-N3-C4	-9.41	105.89	110.60
34	BA	80	U	O4'-C1'-N1	9.41	115.73	108.20
35	BB	739	A	O4'-C1'-N9	9.41	115.73	108.20
35	BB	216	A	C4-C5-C6	9.41	121.70	117.00
35	BB	742	A	C5-C6-N6	-9.41	116.17	123.70
35	BB	1672	A	C5-C6-N1	-9.41	113.00	117.70
35	BB	1425	G	C6-C5-N7	-9.41	124.75	130.40
35	BB	2447	G	N1-C2-N3	-9.41	118.25	123.90
35	BB	2617	U	N1-C2-O2	-9.41	116.21	122.80
1	AA	71	A	C5-N7-C8	9.41	108.60	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	91	C	O4'-C1'-N1	9.41	115.72	108.20
35	BB	459	U	N3-C4-C5	-9.41	108.96	114.60
35	BB	1810	A	C5-C6-N6	-9.41	116.17	123.70
35	BB	2718	G	N1-C6-O6	9.41	125.54	119.90
35	BB	2726	A	C4-C5-C6	9.41	121.70	117.00
1	AA	293	G	C5-C6-N1	-9.40	106.80	111.50
1	AA	766	A	C6-N1-C2	9.40	124.24	118.60
35	BB	401	A	N9-C4-C5	9.40	109.56	105.80
1	AA	329	A	P-O3'-C3'	9.40	130.98	119.70
1	AA	1250	A	N1-C6-N6	9.40	124.24	118.60
35	BB	1788	C	C6-N1-C2	-9.40	116.54	120.30
35	BB	2512	C	C5-C4-N4	-9.40	113.62	120.20
1	AA	80	A	C8-N9-C4	-9.40	102.04	105.80
1	AA	818	G	N3-C2-N2	9.40	126.48	119.90
35	BB	774	G	C5-C6-O6	-9.40	122.96	128.60
35	BB	1583	A	C8-N9-C4	-9.40	102.04	105.80
35	BB	2313	C	N1-C2-N3	9.40	125.78	119.20
1	AA	352	C	N1-C2-O2	9.40	124.54	118.90
1	AA	1065	U	O4'-C1'-N1	9.40	115.72	108.20
1	AA	1294	G	O4'-C1'-N9	9.40	115.72	108.20
22	AV	37	G	C2-N3-C4	9.40	116.60	111.90
34	BA	72	G	O4'-C1'-N9	9.40	115.72	108.20
35	BB	2123	G	P-O3'-C3'	9.40	130.98	119.70
35	BB	1749	A	C5-N7-C8	9.40	108.60	103.90
35	BB	2435	A	C5-C6-N1	-9.40	113.00	117.70
1	AA	438	U	C5-C4-O4	-9.39	120.26	125.90
35	BB	1135	C	C5-C4-N4	-9.39	113.62	120.20
35	BB	1301	A	N1-C6-N6	9.39	124.24	118.60
35	BB	1351	C	O4'-C1'-N1	9.39	115.72	108.20
35	BB	867	C	O4'-C1'-N1	9.39	115.72	108.20
35	BB	1057	A	C5'-C4'-O4'	9.39	120.37	109.10
35	BB	2145	C	C5-C4-N4	-9.39	113.62	120.20
35	BB	2666	C	C2-N3-C4	9.39	124.60	119.90
35	BB	2583	G	C2-N3-C4	-9.39	107.20	111.90
35	BB	1466	U	N1-C2-O2	-9.39	116.23	122.80
35	BB	1566	A	N7-C8-N9	-9.39	109.10	113.80
1	AA	549	C	O4'-C1'-N1	9.39	115.71	108.20
35	BB	1360	G	C6-N1-C2	-9.39	119.47	125.10
35	BB	1553	A	O4'-C1'-N9	9.39	115.71	108.20
34	BA	108	A	C4-C5-C6	9.39	121.69	117.00
35	BB	209	C	N3-C4-N4	9.39	124.57	118.00
35	BB	858	G	C5-C6-O6	-9.39	122.97	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1377	G	N3-C2-N2	9.39	126.47	119.90
1	AA	667	G	C5-C6-O6	-9.39	122.97	128.60
34	BA	85	G	C2-N3-C4	-9.38	107.21	111.90
35	BB	405	U	O4'-C1'-N1	9.39	115.71	108.20
35	BB	885	C	N3-C4-N4	9.38	124.57	118.00
35	BB	2244	U	O4'-C1'-N1	9.39	115.71	108.20
35	BB	2212	A	O4'-C1'-N9	9.38	115.71	108.20
35	BB	2271	G	N7-C8-N9	9.38	117.79	113.10
35	BB	2578	G	C5-C6-O6	-9.38	122.97	128.60
35	BB	17	G	C5-C6-O6	-9.38	122.97	128.60
1	AA	1174	G	O4'-C1'-N9	9.38	115.70	108.20
35	BB	865	C	N3-C4-C5	-9.38	118.15	121.90
35	BB	2648	G	C4-C5-N7	9.38	114.55	110.80
1	AA	815	A	C1'-O4'-C4'	-9.38	102.40	109.90
34	BA	5	U	O4'-C1'-N1	9.38	115.70	108.20
34	BA	20	G	O4'-C1'-N9	9.38	115.70	108.20
52	BS	89	ALA	N-CA-CB	9.38	123.23	110.10
1	AA	1384	C	C5-C4-N4	-9.37	113.64	120.20
35	BB	404	A	C5-C6-N6	-9.38	116.20	123.70
35	BB	631	A	N1-C6-N6	9.38	124.22	118.60
35	BB	2503	A	C5-C6-N1	-9.38	113.01	117.70
35	BB	2783	U	C2-N3-C4	-9.38	121.38	127.00
35	BB	579	G	C8-N9-C4	-9.37	102.65	106.40
35	BB	1039	A	C5-C6-N1	-9.37	113.02	117.70
35	BB	1432	G	O4'-C1'-N9	9.37	115.70	108.20
35	BB	1907	G	N1-C2-N3	-9.37	118.28	123.90
35	BB	2748	A	C4-C5-C6	9.37	121.69	117.00
1	AA	1403	C	O4'-C1'-N1	9.37	115.70	108.20
4	AD	13	ARG	NE-CZ-NH1	9.37	124.98	120.30
35	BB	1016	G	C6-C5-N7	-9.37	124.78	130.40
35	BB	2159	G	C8-N9-C4	-9.37	102.65	106.40
35	BB	2425	A	C8-N9-C4	-9.37	102.05	105.80
1	AA	149	A	C4-C5-N7	-9.37	106.02	110.70
1	AA	337	G	N3-C4-C5	-9.37	123.92	128.60
1	AA	1376	U	O4'-C1'-N1	9.37	115.69	108.20
35	BB	54	G	O4'-C1'-N9	9.37	115.69	108.20
35	BB	2298	A	O4'-C1'-N9	9.37	115.69	108.20
35	BB	2702	G	C4-C5-N7	-9.37	107.05	110.80
35	BB	112	U	N1-C2-N3	9.37	120.52	114.90
35	BB	1612	C	N3-C4-N4	9.37	124.56	118.00
35	BB	2371	G	C6-C5-N7	-9.37	124.78	130.40
1	AA	357	G	C5-C6-O6	-9.37	122.98	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1357	A	C4-C5-N7	-9.37	106.02	110.70
35	BB	300	A	C6-C5-N7	-9.36	125.75	132.30
52	BS	68	ASP	CB-CG-OD1	9.37	126.73	118.30
35	BB	2158	A	C5-C6-N6	-9.36	116.21	123.70
25	B0	26	ARG	NE-CZ-NH1	9.36	124.98	120.30
35	BB	1320	C	N3-C4-N4	9.36	124.55	118.00
35	BB	1708	C	C6-N1-C2	-9.36	116.56	120.30
35	BB	1813	G	C6-C5-N7	-9.36	124.78	130.40
35	BB	1999	C	N3-C4-C5	-9.36	118.16	121.90
35	BB	2107	G	O4'-C1'-N9	9.36	115.69	108.20
35	BB	2279	G	C5-N7-C8	-9.36	99.62	104.30
35	BB	2357	G	C2-N3-C4	9.36	116.58	111.90
1	AA	35	G	N1-C2-N3	-9.36	118.28	123.90
1	AA	154	U	C5-C6-N1	9.36	127.38	122.70
1	AA	1356	G	N9-C4-C5	-9.36	101.66	105.40
1	AA	1423	G	N7-C8-N9	9.36	117.78	113.10
35	BB	69	C	O4'-C1'-N1	9.36	115.69	108.20
35	BB	361	G	N1-C6-O6	9.36	125.52	119.90
34	BA	71	C	N3-C4-C5	-9.36	118.16	121.90
35	BB	645	C	N3-C4-N4	9.36	124.55	118.00
35	BB	2320	U	C5-C6-N1	9.36	127.38	122.70
1	AA	362	G	C4-C5-N7	9.36	114.54	110.80
1	AA	1452	C	C6-N1-C2	-9.36	116.56	120.30
34	BA	7	G	O4'-C1'-N9	9.36	115.69	108.20
35	BB	2543	G	C8-N9-C4	-9.36	102.66	106.40
35	BB	2168	G	C6-C5-N7	-9.36	124.79	130.40
35	BB	2673	G	O4'-C1'-N9	9.36	115.68	108.20
1	AA	601	G	N1-C6-O6	9.35	125.51	119.90
1	AA	714	G	C6-C5-N7	-9.35	124.79	130.40
1	AA	749	A	C4-C5-C6	9.35	121.68	117.00
1	AA	768	A	C5-C6-N6	-9.35	116.22	123.70
35	BB	2604	U	N3-C4-O4	9.35	125.95	119.40
35	BB	2876	G	N1-C6-O6	9.35	125.51	119.90
35	BB	2255	G	C5-C6-O6	-9.35	122.99	128.60
1	AA	721	G	N1-C6-O6	9.35	125.51	119.90
35	BB	1030	C	N3-C4-C5	-9.35	118.16	121.90
35	BB	1635	A	C8-N9-C4	-9.35	102.06	105.80
35	BB	1800	C	N3-C4-N4	9.35	124.54	118.00
35	BB	2044	C	C2-N3-C4	9.35	124.57	119.90
35	BB	2263	C	N3-C4-C5	-9.35	118.16	121.90
1	AA	896	C	C6-N1-C2	-9.35	116.56	120.30
1	AA	983	A	C5-C6-N1	-9.35	113.03	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	409	G	C5-C6-O6	-9.35	122.99	128.60
35	BB	485	C	C6-N1-C2	-9.35	116.56	120.30
35	BB	2681	C	C4-C5-C6	9.35	122.07	117.40
1	AA	1042	A	C5-C6-N6	-9.34	116.23	123.70
1	AA	1409	C	C2-N3-C4	9.34	124.57	119.90
1	AA	1472	U	O4'-C1'-N1	9.34	115.68	108.20
35	BB	2208	C	N3-C4-C5	-9.34	118.16	121.90
1	AA	1423	G	C5-N7-C8	-9.34	99.63	104.30
35	BB	37	C	N3-C4-N4	9.34	124.54	118.00
35	BB	427	U	O4'-C1'-N1	9.34	115.67	108.20
35	BB	1079	C	N3-C4-C5	-9.34	118.16	121.90
35	BB	1839	G	C6-C5-N7	-9.34	124.79	130.40
1	AA	386	C	C5-C4-N4	-9.34	113.66	120.20
35	BB	277	G	O4'-C1'-N9	9.34	115.67	108.20
35	BB	1213	A	O4'-C1'-N9	9.34	115.67	108.20
50	BQ	2	ARG	NE-CZ-NH1	-9.34	115.63	120.30
1	AA	969	A	C4-C5-N7	-9.34	106.03	110.70
35	BB	813	U	O4'-C1'-N1	9.34	115.67	108.20
35	BB	1952	A	C5-N7-C8	9.34	108.57	103.90
1	AA	1138	G	N3-C2-N2	9.34	126.44	119.90
1	AA	663	A	O4'-C1'-N9	9.34	115.67	108.20
34	BA	42	C	N3-C4-N4	9.34	124.54	118.00
35	BB	345	A	N9-C4-C5	9.34	109.53	105.80
35	BB	368	A	C4'-C3'-C2'	-9.34	93.26	102.60
35	BB	1699	G	C8-N9-C4	-9.34	102.67	106.40
35	BB	2047	C	C2-N3-C4	-9.34	115.23	119.90
35	BB	1304	A	N1-C6-N6	9.34	124.20	118.60
35	BB	2364	C	N3-C4-N4	9.34	124.53	118.00
1	AA	420	U	O4'-C1'-N1	9.33	115.67	108.20
1	AA	977	A	C8-N9-C4	-9.33	102.07	105.80
1	AA	1061	G	C8-N9-C4	-9.33	102.67	106.40
16	AP	14	ARG	NE-CZ-NH2	-9.33	115.63	120.30
35	BB	2763	G	N1-C2-N2	-9.33	107.80	116.20
34	BA	14	U	O4'-C1'-N1	9.33	115.67	108.20
35	BB	428	A	C5-C6-N1	-9.33	113.03	117.70
35	BB	1478	G	C4-C5-C6	9.33	124.40	118.80
35	BB	1899	A	C5-N7-C8	9.33	108.57	103.90
35	BB	2470	G	C5-C6-O6	-9.33	123.00	128.60
1	AA	1136	C	C5-C4-N4	-9.33	113.67	120.20
35	BB	1110	G	C8-N9-C4	-9.33	102.67	106.40
1	AA	1517	G	O4'-C1'-N9	9.33	115.66	108.20
34	BA	116	G	N1-C2-N3	-9.33	118.30	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	55	G	N7-C8-N9	-9.33	108.44	113.10
40	BG	93	TYR	CB-CG-CD1	-9.33	115.40	121.00
1	AA	352	C	N3-C4-C5	-9.33	118.17	121.90
35	BB	2119	A	O4'-C1'-N9	9.33	115.66	108.20
1	AA	485	U	O4'-C1'-N1	9.33	115.66	108.20
1	AA	1173	U	O4'-C1'-N1	9.33	115.66	108.20
35	BB	1719	G	N1-C6-O6	9.33	125.50	119.90
35	BB	2749	A	C4-C5-C6	9.33	121.66	117.00
1	AA	310	G	C5-C6-O6	-9.32	123.01	128.60
1	AA	688	G	N1-C6-O6	9.32	125.49	119.90
8	AH	96	ALA	N-CA-CB	9.32	123.15	110.10
35	BB	2489	U	N1-C2-O2	9.32	129.33	122.80
35	BB	1500	G	C8-N9-C4	-9.32	102.67	106.40
1	AA	1427	C	N3-C4-N4	9.32	124.53	118.00
1	AA	1220	G	O4'-C1'-N9	9.32	115.66	108.20
1	AA	1275	A	N1-C2-N3	9.32	133.96	129.30
35	BB	298	G	C6-N1-C2	9.32	130.69	125.10
35	BB	1284	A	C8-N9-C4	-9.32	102.07	105.80
35	BB	1436	G	N9-C4-C5	-9.32	101.67	105.40
35	BB	1542	U	N3-C4-O4	-9.32	112.88	119.40
1	AA	632	U	O4'-C1'-N1	9.32	115.65	108.20
34	BA	71	C	N1-C2-N3	9.32	125.72	119.20
35	BB	272	A	C6-C5-N7	-9.32	125.78	132.30
35	BB	541	A	C2-N3-C4	-9.31	105.94	110.60
35	BB	1957	C	O4'-C1'-N1	9.31	115.65	108.20
35	BB	1910	G	N1-C6-O6	9.31	125.49	119.90
35	BB	2351	G	N1-C6-O6	9.31	125.49	119.90
35	BB	2581	G	N3-C2-N2	9.31	126.42	119.90
1	AA	627	G	C5-C6-O6	-9.31	123.01	128.60
1	AA	1263	C	N3-C4-C5	-9.31	118.17	121.90
35	BB	1244	A	N1-C6-N6	9.31	124.19	118.60
35	BB	2141	G	C5-C6-N1	-9.31	106.84	111.50
35	BB	2448	A	C5-C6-N1	-9.31	113.04	117.70
35	BB	96	C	O4'-C1'-N1	9.31	115.65	108.20
35	BB	750	A	N1-C2-N3	-9.31	124.64	129.30
35	BB	1678	A	O4'-C1'-N9	9.31	115.65	108.20
1	AA	1151	A	C4-C5-C6	9.31	121.65	117.00
35	BB	1486	U	O4'-C1'-N1	9.31	115.65	108.20
34	BA	72	G	N3-C4-C5	-9.31	123.95	128.60
35	BB	1293	C	C5-C4-N4	-9.31	113.69	120.20
35	BB	1603	A	C5-N7-C8	9.31	108.55	103.90
35	BB	2574	G	O4'-C1'-N9	9.31	115.64	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	330	C	N3-C4-N4	9.30	124.51	118.00
1	AA	785	G	N9-C4-C5	-9.30	101.68	105.40
1	AA	1155	A	C5-C6-N6	-9.30	116.26	123.70
35	BB	1295	C	C6-N1-C2	-9.30	116.58	120.30
35	BB	2198	A	C5-N7-C8	9.30	108.55	103.90
35	BB	2810	A	N9-C4-C5	9.31	109.52	105.80
1	AA	1305	G	C4-C5-N7	-9.30	107.08	110.80
35	BB	1127	A	N1-C6-N6	9.30	124.18	118.60
35	BB	2509	G	N1-C6-O6	9.30	125.48	119.90
1	AA	530	G	N1-C6-O6	9.30	125.48	119.90
35	BB	2497	A	C5-C6-N1	-9.30	113.05	117.70
1	AA	570	G	N1-C6-O6	9.30	125.48	119.90
1	AA	931	C	C4-C5-C6	-9.30	112.75	117.40
34	BA	43	C	O4'-C1'-N1	9.30	115.64	108.20
35	BB	75	G	N7-C8-N9	-9.30	108.45	113.10
1	AA	309	A	O4'-C1'-N9	9.30	115.64	108.20
35	BB	942	G	C8-N9-C4	-9.30	102.68	106.40
35	BB	77	G	N3-C4-C5	-9.30	123.95	128.60
35	BB	780	G	N1-C6-O6	9.30	125.48	119.90
35	BB	977	G	C4-C5-N7	-9.30	107.08	110.80
35	BB	2681	C	N3-C4-C5	-9.30	118.18	121.90
1	AA	9	G	C5-C6-O6	-9.30	123.02	128.60
1	AA	11	G	C6-C5-N7	-9.29	124.82	130.40
1	AA	958	A	C4-C5-C6	9.30	121.65	117.00
1	AA	1201	A	N9-C4-C5	9.30	109.52	105.80
1	AA	1457	G	C8-N9-C4	-9.29	102.68	106.40
35	BB	995	C	C6-N1-C2	-9.29	116.58	120.30
1	AA	255	G	C5-C6-N1	-9.29	106.85	111.50
1	AA	405	U	C5-C6-N1	9.29	127.35	122.70
35	BB	121	G	N3-C2-N2	9.29	126.41	119.90
35	BB	1735	A	C4-C5-C6	9.29	121.64	117.00
35	BB	2412	A	N1-C2-N3	9.29	133.94	129.30
1	AA	514	C	N3-C4-N4	9.29	124.50	118.00
35	BB	406	G	C5-C6-O6	-9.29	123.03	128.60
35	BB	504	A	C6-N1-C2	-9.29	113.03	118.60
35	BB	814	C	C4'-C3'-C2'	-9.29	93.31	102.60
35	BB	1378	A	C4-C5-C6	9.29	121.64	117.00
34	BA	57	A	N1-C6-N6	9.29	124.17	118.60
35	BB	2278	A	C5-C6-N6	-9.29	116.27	123.70
55	BW	50	MET	CG-SD-CE	-9.29	85.34	100.20
1	AA	942	G	C5-C6-O6	-9.28	123.03	128.60
35	BB	1859	U	O4'-C1'-N1	9.28	115.63	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	265	G	O4'-C1'-N9	9.28	115.62	108.20
1	AA	1242	G	N7-C8-N9	-9.28	108.46	113.10
35	BB	1529	G	C6-C5-N7	-9.28	124.83	130.40
35	BB	2371	G	C5-C6-O6	-9.28	123.03	128.60
35	BB	2516	A	C4-C5-C6	9.28	121.64	117.00
35	BB	2639	A	C2-N3-C4	-9.28	105.96	110.60
35	BB	2794	C	N3-C4-N4	9.28	124.50	118.00
1	AA	141	G	C8-N9-C4	-9.28	102.69	106.40
1	AA	371	A	C4-C5-N7	-9.28	106.06	110.70
35	BB	1376	C	C2-N3-C4	9.28	124.54	119.90
35	BB	1689	A	O4'-C1'-N9	9.28	115.62	108.20
1	AA	162	A	C5-N7-C8	9.28	108.54	103.90
1	AA	779	C	C6-N1-C2	-9.28	116.59	120.30
1	AA	831	A	C4-C5-N7	-9.28	106.06	110.70
1	AA	1090	U	N3-C2-O2	9.28	128.69	122.20
35	BB	103	A	N9-C4-C5	9.28	109.51	105.80
2	AB	193	ASP	CB-CG-OD1	9.28	126.65	118.30
34	BA	97	C	N3-C4-N4	9.28	124.49	118.00
35	BB	1732	C	N3-C4-C5	-9.28	118.19	121.90
35	BB	1901	A	N9-C4-C5	9.28	109.51	105.80
1	AA	92	U	C4-C5-C6	-9.27	114.14	119.70
1	AA	1360	A	C4-C5-C6	9.27	121.64	117.00
35	BB	638	G	N3-C2-N2	9.27	126.39	119.90
35	BB	1184	U	N1-C2-N3	-9.27	109.34	114.90
35	BB	1430	G	N1-C2-N3	-9.27	118.34	123.90
35	BB	2559	C	O4'-C1'-N1	9.27	115.62	108.20
35	BB	2833	U	C1'-O4'-C4'	-9.27	102.48	109.90
1	AA	546	A	C2-N3-C4	-9.27	105.97	110.60
1	AA	1500	A	N1-C6-N6	9.27	124.16	118.60
35	BB	2663	G	O4'-C1'-N9	9.27	115.61	108.20
35	BB	2668	G	N1-C6-O6	9.27	125.46	119.90
1	AA	199	A	C4-C5-C6	9.27	121.63	117.00
1	AA	554	A	C5-C6-N6	-9.27	116.29	123.70
1	AA	987	G	N9-C4-C5	9.27	109.11	105.40
35	BB	1990	C	N3-C4-C5	-9.27	118.19	121.90
35	BB	2178	C	C2-N1-C1'	9.27	128.99	118.80
35	BB	2327	A	C5-C6-N6	-9.27	116.29	123.70
35	BB	2855	C	N3-C4-N4	9.27	124.49	118.00
1	AA	943	U	C6-N1-C2	-9.26	115.44	121.00
22	AV	22	G	N1-C6-O6	9.26	125.46	119.90
35	BB	226	A	O4'-C1'-N9	9.26	115.61	108.20
35	BB	1001	A	N1-C6-N6	9.26	124.16	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	1301	A	C5-N7-C8	9.26	108.53	103.90
35	BB	1388	G	C5-C6-N1	9.26	116.13	111.50
35	BB	2198	A	C5-C6-N6	-9.26	116.29	123.70
1	AA	74	A	C5-C6-N1	-9.26	113.07	117.70
1	AA	347	G	N1-C6-O6	9.26	125.46	119.90
31	B6	33	ARG	NE-CZ-NH2	9.26	124.93	120.30
1	AA	1001	C	C5-C4-N4	-9.26	113.72	120.20
1	AA	1391	U	N1-C2-N3	-9.26	109.34	114.90
34	BA	59	A	C4-C5-N7	-9.26	106.07	110.70
35	BB	1532	A	N1-C6-N6	9.26	124.16	118.60
1	AA	1151	A	C5-C6-N6	-9.26	116.29	123.70
35	BB	527	C	N3-C4-N4	9.26	124.48	118.00
35	BB	713	G	N1-C2-N3	-9.26	118.35	123.90
35	BB	974	G	C6-C5-N7	-9.26	124.85	130.40
35	BB	1927	A	O4'-C1'-N9	9.26	115.61	108.20
35	BB	2465	C	N3-C4-N4	9.26	124.48	118.00
35	BB	2635	A	O4'-C1'-N9	9.26	115.60	108.20
41	BH	46	PHE	CB-CG-CD2	-9.26	114.32	120.80
1	AA	840	C	C5-C4-N4	-9.25	113.72	120.20
35	BB	1990	C	O4'-C1'-N1	9.25	115.60	108.20
35	BB	2579	C	C5-C4-N4	-9.25	113.72	120.20
1	AA	582	C	C5-C6-N1	9.25	125.63	121.00
1	AA	648	A	C5-C6-N6	-9.25	116.30	123.70
1	AA	1366	C	O4'-C1'-N1	9.25	115.60	108.20
27	B2	30	ARG	NE-CZ-NH2	9.25	124.92	120.30
35	BB	290	U	O4'-C1'-N1	9.25	115.60	108.20
35	BB	466	A	O4'-C1'-N9	9.25	115.60	108.20
35	BB	882	G	O4'-C1'-N9	9.25	115.60	108.20
35	BB	2096	C	C6-N1-C2	-9.25	116.60	120.30
35	BB	2260	C	C4-C5-C6	9.25	122.02	117.40
35	BB	1206	G	C5-C6-O6	-9.25	123.05	128.60
7	AG	43	TYR	CG-CD2-CE2	-9.25	113.90	121.30
35	BB	816	C	O4'-C1'-N1	9.25	115.60	108.20
35	BB	1748	C	N3-C4-N4	9.25	124.47	118.00
35	BB	2319	G	O4'-C1'-N9	9.25	115.60	108.20
35	BB	2595	G	C5-C6-O6	9.25	134.15	128.60
35	BB	2758	A	C6-N1-C2	-9.25	113.05	118.60
1	AA	61	G	N1-C6-O6	9.24	125.45	119.90
2	AB	197	PHE	CB-CG-CD1	-9.24	114.33	120.80
35	BB	407	G	N1-C6-O6	9.24	125.45	119.90
35	BB	409	G	N1-C6-O6	9.24	125.45	119.90
35	BB	1283	G	O4'-C1'-N9	9.24	115.60	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1656	C	O4'-C1'-N1	9.24	115.60	108.20
1	AA	443	C	C5-C6-N1	9.24	125.62	121.00
1	AA	513	C	N3-C4-N4	9.24	124.47	118.00
1	AA	1375	A	C5-C6-N1	-9.24	113.08	117.70
35	BB	456	C	N1-C2-O2	9.24	124.44	118.90
35	BB	545	U	O4'-C1'-N1	9.24	115.59	108.20
1	AA	528	C	N3-C4-C5	-9.24	118.20	121.90
1	AA	941	G	N9-C4-C5	-9.24	101.70	105.40
1	AA	1251	A	C5-C6-N6	-9.24	116.31	123.70
35	BB	1792	G	C5-C6-O6	-9.24	123.06	128.60
1	AA	610	U	N3-C4-C5	-9.24	109.06	114.60
1	AA	1338	G	N1-C6-O6	9.24	125.44	119.90
35	BB	500	G	C5-C6-O6	-9.24	123.06	128.60
35	BB	680	C	C5-C6-N1	9.24	125.62	121.00
35	BB	1136	G	C2-N3-C4	9.24	116.52	111.90
35	BB	2161	C	O4'-C1'-N1	9.24	115.59	108.20
35	BB	2065	C	C5-C6-N1	-9.24	116.38	121.00
1	AA	271	C	C4-C5-C6	9.24	122.02	117.40
1	AA	1507	A	O4'-C1'-N9	9.24	115.59	108.20
1	AA	1306	A	N9-C4-C5	-9.24	102.11	105.80
35	BB	211	C	N3-C4-N4	9.24	124.47	118.00
35	BB	688	U	O4'-C1'-N1	9.24	115.59	108.20
35	BB	829	A	N1-C2-N3	-9.24	124.68	129.30
35	BB	2025	C	O4'-C1'-N1	9.24	115.59	108.20
35	BB	2869	G	N1-C2-N3	-9.23	118.36	123.90
1	AA	399	G	O4'-C1'-N9	9.23	115.59	108.20
1	AA	908	A	C4-C5-N7	-9.23	106.08	110.70
1	AA	1419	G	N1-C6-O6	9.23	125.44	119.90
35	BB	326	G	C4-C5-C6	9.23	124.34	118.80
1	AA	727	G	N1-C6-O6	9.23	125.44	119.90
35	BB	960	A	C4-C5-N7	-9.23	106.08	110.70
35	BB	1487	U	O4'-C1'-N1	9.23	115.59	108.20
35	BB	1993	U	O4'-C1'-N1	9.23	115.59	108.20
35	BB	1256	G	C4-C5-N7	-9.23	107.11	110.80
35	BB	1993	U	C5-C4-O4	-9.23	120.36	125.90
35	BB	2126	A	C5-C6-N6	-9.23	116.31	123.70
1	AA	132	C	C4-C5-C6	9.23	122.01	117.40
1	AA	1242	G	C5-N7-C8	9.23	108.92	104.30
35	BB	1017	G	C6-C5-N7	-9.23	124.86	130.40
1	AA	1142	G	C5-C6-O6	-9.23	123.06	128.60
35	BB	291	G	C5-C6-O6	-9.23	123.06	128.60
35	BB	1387	A	C8-N9-C4	-9.23	102.11	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	1588	G	N3-C4-C5	-9.23	123.99	128.60
35	BB	1701	A	C4-C5-C6	9.23	121.61	117.00
35	BB	2444	G	C6-N1-C2	9.23	130.64	125.10
35	BB	2787	C	O4'-C1'-N1	9.23	115.58	108.20
1	AA	228	A	C8-N9-C4	-9.22	102.11	105.80
35	BB	798	G	C2-N3-C4	-9.22	107.29	111.90
1	AA	1193	G	C5-C6-O6	-9.22	123.07	128.60
25	B0	59	ASP	CB-CG-OD2	9.22	126.60	118.30
35	BB	425	G	N1-C6-O6	9.22	125.43	119.90
35	BB	2659	G	C8-N9-C4	-9.22	102.71	106.40
1	AA	628	G	C5-C6-O6	-9.22	123.07	128.60
35	BB	83	A	C8-N9-C4	-9.22	102.11	105.80
35	BB	103	A	C5-C6-N1	-9.22	113.09	117.70
35	BB	468	G	C5-C6-O6	-9.22	123.07	128.60
35	BB	676	A	C5-C6-N6	-9.22	116.32	123.70
35	BB	1028	A	N9-C4-C5	9.22	109.49	105.80
35	BB	1717	A	N1-C6-N6	9.22	124.13	118.60
35	BB	1691	C	O4'-C1'-N1	9.22	115.58	108.20
35	BB	1808	A	N7-C8-N9	9.22	118.41	113.80
35	BB	2502	G	N1-C6-O6	9.22	125.43	119.90
35	BB	2675	A	O4'-C1'-N9	9.22	115.58	108.20
35	BB	1570	A	N1-C6-N6	9.22	124.13	118.60
1	AA	1150	A	C5-C6-N1	-9.22	113.09	117.70
35	BB	2566	A	N1-C6-N6	9.22	124.13	118.60
35	BB	2585	U	N3-C4-O4	9.22	125.85	119.40
1	AA	944	G	O4'-C1'-N9	9.22	115.57	108.20
1	AA	1332	A	O4'-C1'-N9	9.22	115.57	108.20
1	AA	1389	C	O4'-C1'-N1	9.22	115.57	108.20
1	AA	1295	U	O4'-C1'-N1	9.21	115.57	108.20
34	BA	91	C	C5-C4-N4	-9.21	113.75	120.20
35	BB	712	G	C5-C6-O6	-9.21	123.07	128.60
35	BB	1470	A	C4-C5-C6	9.21	121.61	117.00
35	BB	1869	G	C5-C6-N1	-9.21	106.89	111.50
35	BB	2661	G	N9-C4-C5	-9.22	101.71	105.40
1	AA	71	A	N1-C6-N6	9.21	124.13	118.60
1	AA	1300	G	N1-C6-O6	9.21	125.43	119.90
35	BB	1701	A	C5-C6-N6	-9.21	116.33	123.70
1	AA	37	U	O4'-C1'-N1	9.21	115.57	108.20
1	AA	394	G	C5-C6-O6	-9.21	123.07	128.60
1	AA	715	A	C4-C5-C6	9.21	121.61	117.00
34	BA	107	G	N3-C2-N2	9.21	126.35	119.90
35	BB	594	U	N3-C4-O4	9.21	125.85	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2597	G	N3-C2-N2	9.21	126.35	119.90
35	BB	1873	G	N1-C2-N3	-9.21	118.37	123.90
1	AA	448	A	O4'-C1'-N9	9.21	115.57	108.20
1	AA	480	U	O4'-C1'-N1	9.21	115.57	108.20
1	AA	1079	G	N9-C4-C5	9.21	109.08	105.40
35	BB	350	G	C5-C6-O6	-9.21	123.08	128.60
35	BB	616	A	C5-C6-N6	-9.21	116.33	123.70
35	BB	2644	G	C5-C6-O6	-9.21	123.08	128.60
1	AA	774	G	N3-C4-C5	-9.20	124.00	128.60
35	BB	477	A	C4-C5-N7	-9.20	106.10	110.70
35	BB	2236	U	O4'-C1'-N1	9.21	115.56	108.20
9	AI	37	TYR	CB-CG-CD1	-9.20	115.48	121.00
35	BB	895	U	C6-N1-C2	-9.20	115.48	121.00
35	BB	1794	A	O4'-C1'-N9	9.20	115.56	108.20
35	BB	1936	A	C5-C6-N6	-9.20	116.34	123.70
1	AA	80	A	C5-C6-N1	-9.20	113.10	117.70
1	AA	569	C	O4'-C1'-N1	9.20	115.56	108.20
35	BB	177	G	N9-C4-C5	-9.20	101.72	105.40
35	BB	1721	G	C8-N9-C4	-9.20	102.72	106.40
1	AA	1296	C	C5-C6-N1	-9.20	116.40	121.00
11	AK	26	PHE	CB-CG-CD1	9.20	127.24	120.80
35	BB	489	G	N1-C6-O6	9.20	125.42	119.90
35	BB	707	G	O4'-C1'-N9	9.20	115.56	108.20
35	BB	1122	G	C6-C5-N7	-9.20	124.88	130.40
35	BB	1231	U	C5-C6-N1	9.20	127.30	122.70
1	AA	1076	U	O4'-C1'-N1	9.20	115.56	108.20
1	AA	1386	G	N1-C6-O6	9.20	125.42	119.90
35	BB	84	A	C5-C6-N1	-9.20	113.10	117.70
35	BB	2433	A	C4-C5-C6	9.20	121.60	117.00
1	AA	40	C	C4-C5-C6	9.19	122.00	117.40
1	AA	606	G	C6-C5-N7	-9.19	124.88	130.40
35	BB	1490	A	C4-C5-C6	9.19	121.60	117.00
35	BB	2802	G	C5-C6-O6	-9.20	123.08	128.60
1	AA	1446	A	C5-C6-N1	-9.19	113.10	117.70
35	BB	375	G	C5-C6-O6	-9.19	123.08	128.60
35	BB	1251	C	C5-C4-N4	-9.19	113.77	120.20
35	BB	1359	A	C5-C6-N1	-9.19	113.10	117.70
35	BB	2191	A	O4'-C1'-N9	9.19	115.55	108.20
1	AA	345	C	N3-C4-N4	9.19	124.43	118.00
1	AA	440	C	N3-C4-C5	-9.19	118.22	121.90
1	AA	573	A	C4-C5-N7	-9.19	106.11	110.70
35	BB	1232	G	N1-C2-N3	-9.19	118.39	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	879	C	N3-C4-N4	9.19	124.43	118.00
1	AA	1377	A	C8-N9-C4	-9.19	102.12	105.80
35	BB	735	A	C5-C6-N1	-9.19	113.11	117.70
35	BB	1415	U	C2-N3-C4	9.19	132.51	127.00
35	BB	1915	U	C4-C5-C6	-9.19	114.19	119.70
35	BB	531	C	C5-C4-N4	-9.19	113.77	120.20
35	BB	1998	A	O4'-C1'-N9	9.19	115.55	108.20
35	BB	2040	G	N9-C4-C5	-9.19	101.72	105.40
35	BB	2027	G	O4'-C1'-N9	9.19	115.55	108.20
35	BB	2855	C	O4'-C1'-N1	9.19	115.55	108.20
34	BA	69	G	N1-C6-O6	9.19	125.41	119.90
35	BB	2705	A	N1-C6-N6	9.19	124.11	118.60
1	AA	792	A	O4'-C1'-N9	9.18	115.55	108.20
1	AA	994	A	C6-N1-C2	9.18	124.11	118.60
1	AA	1201	A	O4'-C1'-N9	9.18	115.55	108.20
35	BB	1773	A	C5-C6-N6	-9.18	116.35	123.70
1	AA	187	G	N3-C2-N2	9.18	126.33	119.90
1	AA	195	A	C8-N9-C4	-9.18	102.13	105.80
35	BB	1139	G	C5-C6-O6	-9.18	123.09	128.60
35	BB	129	C	C5-C4-N4	-9.18	113.78	120.20
35	BB	295	G	N9-C4-C5	-9.18	101.73	105.40
35	BB	485	C	C5-C6-N1	9.18	125.59	121.00
35	BB	728	G	O4'-C1'-N9	9.18	115.54	108.20
35	BB	2151	U	C5-C4-O4	-9.18	120.39	125.90
35	BB	2509	G	C8-N9-C4	-9.18	102.73	106.40
35	BB	2888	C	N3-C4-N4	9.18	124.42	118.00
35	BB	2893	A	C4-C5-C6	9.18	121.59	117.00
1	AA	564	C	O4'-C1'-N1	9.18	115.54	108.20
1	AA	923	A	N7-C8-N9	-9.18	109.21	113.80
1	AA	977	A	C6-N1-C2	9.17	124.10	118.60
35	BB	487	C	C2-N3-C4	9.17	124.49	119.90
35	BB	742	A	O4'-C1'-N9	9.17	115.54	108.20
35	BB	1485	U	O4'-C1'-N1	9.17	115.54	108.20
35	BB	2250	G	N1-C6-O6	9.17	125.41	119.90
1	AA	509	A	C5-C6-N6	-9.17	116.36	123.70
1	AA	1368	A	C4'-C3'-C2'	-9.17	93.43	102.60
9	AI	79	ARG	NE-CZ-NH1	9.17	124.88	120.30
22	AV	72	G	O4'-C1'-N9	9.17	115.54	108.20
1	AA	223	A	C5-C6-N1	-9.17	113.12	117.70
1	AA	586	C	P-O3'-C3'	-9.17	108.70	119.70
35	BB	669	G	C5'-C4'-O4'	9.17	120.10	109.10
1	AA	889	A	C4-C5-N7	-9.17	106.12	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1188	A	C2-N3-C4	-9.17	106.02	110.60
35	BB	675	A	C4-C5-C6	9.17	121.58	117.00
1	AA	506	G	O4'-C1'-N9	9.16	115.53	108.20
1	AA	519	C	N3-C4-N4	9.16	124.42	118.00
1	AA	1174	G	N1-C6-O6	9.16	125.40	119.90
35	BB	36	G	N1-C6-O6	9.16	125.40	119.90
35	BB	929	U	C4-C5-C6	-9.16	114.20	119.70
35	BB	1005	C	N3-C4-N4	9.16	124.42	118.00
35	BB	1085	A	C4-C5-C6	9.16	121.58	117.00
35	BB	2631	G	N9-C4-C5	-9.16	101.73	105.40
47	BN	64	ARG	NE-CZ-NH2	-9.16	115.72	120.30
35	BB	192	C	C4-C5-C6	9.16	121.98	117.40
35	BB	764	A	C4-C5-C6	9.16	121.58	117.00
35	BB	1618	A	C5-C6-N6	-9.16	116.37	123.70
4	AD	43	ARG	NE-CZ-NH2	-9.16	115.72	120.30
1	AA	510	A	N1-C6-N6	9.16	124.09	118.60
1	AA	1379	G	N1-C6-O6	9.16	125.39	119.90
35	BB	150	U	O4'-C1'-N1	9.16	115.53	108.20
35	BB	436	C	P-O3'-C3'	-9.16	108.71	119.70
35	BB	2889	C	O4'-C1'-N1	9.16	115.53	108.20
1	AA	491	G	C5-N7-C8	-9.16	99.72	104.30
35	BB	605	G	N9-C4-C5	-9.16	101.74	105.40
35	BB	1758	U	C6-N1-C1'	-9.16	108.38	121.20
35	BB	1491	G	C5-C6-N1	-9.16	106.92	111.50
35	BB	1749	A	C5-C6-N1	-9.15	113.12	117.70
35	BB	2224	G	C6-C5-N7	-9.15	124.91	130.40
1	AA	194	C	N3-C4-C5	-9.15	118.24	121.90
1	AA	1163	A	C5-C6-N1	-9.15	113.12	117.70
1	AA	1171	A	N1-C6-N6	9.15	124.09	118.60
35	BB	1968	G	C5-C6-O6	-9.15	123.11	128.60
35	BB	2600	A	C5-C6-N1	-9.15	113.12	117.70
35	BB	2632	A	C5-C6-N1	-9.15	113.12	117.70
35	BB	2864	G	N3-C2-N2	9.15	126.31	119.90
1	AA	1311	A	N1-C6-N6	9.15	124.09	118.60
3	AC	168	ARG	NE-CZ-NH2	-9.15	115.72	120.30
35	BB	314	C	C6-N1-C2	-9.15	116.64	120.30
35	BB	371	A	C6-N1-C2	9.15	124.09	118.60
1	AA	1498	U	C6-N1-C2	9.15	126.49	121.00
35	BB	1074	G	C4-C5-N7	-9.15	107.14	110.80
35	BB	1232	G	C5-C6-O6	-9.15	123.11	128.60
35	BB	2311	A	C4-C5-N7	-9.15	106.12	110.70
35	BB	2564	A	N1-C6-N6	9.15	124.09	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2688	G	O4'-C1'-N9	9.15	115.52	108.20
1	AA	517	G	C4-C5-C6	9.15	124.29	118.80
35	BB	653	U	N1-C2-O2	9.15	129.20	122.80
35	BB	2212	A	N1-C6-N6	9.15	124.09	118.60
1	AA	640	A	C5-N7-C8	9.15	108.47	103.90
1	AA	1526	G	N1-C6-O6	9.15	125.39	119.90
35	BB	49	A	C6-C5-N7	-9.15	125.90	132.30
35	BB	2198	A	P-O3'-C3'	9.15	130.68	119.70
35	BB	2201	G	C6-C5-N7	-9.15	124.91	130.40
35	BB	2478	A	C4-C5-C6	9.15	121.58	117.00
35	BB	679	C	N3-C4-C5	-9.15	118.24	121.90
35	BB	1237	A	C4-C5-C6	9.15	121.57	117.00
35	BB	1451	C	C3'-C2'-C1'	9.15	108.82	101.50
35	BB	2614	A	N1-C6-N6	9.15	124.09	118.60
1	AA	30	U	O4'-C1'-N1	9.14	115.52	108.20
1	AA	568	G	N1-C6-O6	9.14	125.39	119.90
35	BB	1270	C	C5-C4-N4	-9.14	113.80	120.20
1	AA	136	C	N3-C4-N4	9.14	124.40	118.00
1	AA	592	G	C4-C5-C6	9.14	124.29	118.80
1	AA	1024	G	N1-C6-O6	9.14	125.39	119.90
35	BB	1062	G	C5-N7-C8	9.14	108.87	104.30
35	BB	1083	U	O4'-C1'-N1	9.14	115.51	108.20
35	BB	1634	A	C5-C6-N1	-9.14	113.13	117.70
35	BB	2379	G	C6-C5-N7	-9.14	124.91	130.40
1	AA	338	A	O4'-C1'-N9	9.14	115.51	108.20
35	BB	1639	C	N3-C4-C5	-9.14	118.24	121.90
35	BB	238	C	C5-C4-N4	-9.14	113.80	120.20
35	BB	728	G	N1-C6-O6	9.14	125.38	119.90
35	BB	1539	U	O4'-C1'-N1	9.14	115.51	108.20
35	BB	1908	C	N3-C4-N4	9.14	124.40	118.00
35	BB	2428	G	O4'-C1'-N9	9.14	115.51	108.20
1	AA	667	G	C5-C6-N1	-9.14	106.93	111.50
22	AV	39	G	N3-C4-C5	-9.14	124.03	128.60
22	AV	43	G	N1-C6-O6	9.14	125.38	119.90
35	BB	1020	A	C5-C6-N1	-9.14	113.13	117.70
35	BB	1736	U	O4'-C1'-N1	9.14	115.51	108.20
35	BB	2407	A	C4-C5-C6	9.14	121.57	117.00
35	BB	2754	U	O4'-C1'-N1	9.14	115.51	108.20
1	AA	384	G	C5-N7-C8	-9.14	99.73	104.30
1	AA	471	U	O4'-C1'-N1	9.13	115.51	108.20
1	AA	1080	A	N1-C6-N6	9.13	124.08	118.60
16	AP	32	PHE	CB-CG-CD2	9.14	127.19	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1412	U	C2-N3-C4	-9.13	121.52	127.00
35	BB	2028	U	C5-C6-N1	9.14	127.27	122.70
35	BB	1740	G	N3-C2-N2	9.13	126.29	119.90
35	BB	2458	G	O4'-C1'-N9	9.13	115.51	108.20
1	AA	206	C	N3-C4-C5	-9.13	118.25	121.90
18	AR	31	TYR	CB-CG-CD2	-9.13	115.52	121.00
35	BB	426	C	O4'-C1'-N1	9.13	115.51	108.20
35	BB	1341	G	C8-N9-C4	-9.13	102.75	106.40
35	BB	1959	G	N3-C4-C5	9.13	133.16	128.60
35	BB	2678	C	O4'-C1'-N1	9.13	115.51	108.20
1	AA	67	C	O4'-C1'-N1	9.13	115.50	108.20
1	AA	865	A	C5-C6-N6	-9.13	116.40	123.70
3	AC	192	TYR	CB-CG-CD2	-9.13	115.52	121.00
35	BB	505	A	C5-C6-N6	-9.13	116.40	123.70
1	AA	1485	U	O4'-C1'-N1	9.13	115.50	108.20
35	BB	423	A	N1-C6-N6	9.13	124.08	118.60
35	BB	1983	G	P-O3'-C3'	-9.13	108.75	119.70
35	BB	2669	G	N1-C2-N3	-9.13	118.42	123.90
35	BB	1237	A	O4'-C1'-N9	9.13	115.50	108.20
35	BB	2397	G	C6-C5-N7	-9.13	124.92	130.40
1	AA	410	G	N3-C2-N2	9.13	126.29	119.90
35	BB	1435	G	C5-N7-C8	9.13	108.86	104.30
35	BB	2229	U	N3-C2-O2	-9.13	115.81	122.20
1	AA	1397	C	N3-C4-N4	9.12	124.39	118.00
1	AA	1486	G	C5-C6-O6	-9.12	123.12	128.60
35	BB	342	A	C5-C6-N1	-9.12	113.14	117.70
35	BB	457	A	C5-N7-C8	9.12	108.46	103.90
35	BB	1626	A	C6-N1-C2	9.12	124.08	118.60
35	BB	1768	C	N3-C4-C5	-9.12	118.25	121.90
35	BB	2829	A	N9-C4-C5	-9.12	102.15	105.80
1	AA	556	C	O4'-C1'-N1	9.12	115.50	108.20
1	AA	1316	G	C6-N1-C2	9.12	130.57	125.10
22	AV	31	C	O4'-C1'-N1	9.12	115.50	108.20
35	BB	299	A	N9-C4-C5	9.12	109.45	105.80
35	BB	498	G	O4'-C4'-C3'	-9.12	94.88	104.00
35	BB	634	C	N3-C4-N4	9.12	124.39	118.00
1	AA	241	G	C5-C6-O6	-9.12	123.13	128.60
1	AA	910	C	C6-N1-C2	-9.12	116.65	120.30
1	AA	1222	G	N9-C4-C5	9.12	109.05	105.40
35	BB	706	A	C6-C5-N7	-9.12	125.92	132.30
35	BB	1540	G	N1-C2-N3	-9.12	118.43	123.90
35	BB	2073	C	N3-C4-C5	-9.12	118.25	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	601	C	O4'-C1'-N1	9.12	115.49	108.20
35	BB	1834	U	C5-C6-N1	9.12	127.26	122.70
35	BB	2292	U	O4'-C1'-N1	9.12	115.49	108.20
35	BB	2895	G	C4-C5-N7	-9.12	107.15	110.80
1	AA	1033	G	N1-C6-O6	9.12	125.37	119.90
34	BA	98	G	C4-C5-N7	9.12	114.45	110.80
35	BB	191	A	C4-C5-N7	-9.12	106.14	110.70
35	BB	254	G	N1-C6-O6	9.12	125.37	119.90
35	BB	2325	G	C6-C5-N7	-9.12	124.93	130.40
35	BB	350	G	C6-C5-N7	-9.11	124.93	130.40
35	BB	2896	C	N3-C4-N4	9.11	124.38	118.00
1	AA	838	G	N9-C4-C5	-9.11	101.75	105.40
35	BB	408	G	N1-C6-O6	9.11	125.37	119.90
1	AA	117	G	N1-C2-N3	-9.11	118.43	123.90
1	AA	535	A	N9-C4-C5	9.11	109.44	105.80
1	AA	901	A	N1-C6-N6	9.11	124.07	118.60
1	AA	1164	G	C6-C5-N7	-9.11	124.93	130.40
34	BA	35	C	C6-N1-C1'	-9.11	109.87	120.80
35	BB	1989	G	C5-C6-N1	-9.11	106.94	111.50
1	AA	419	C	N3-C4-N4	9.11	124.38	118.00
1	AA	229	U	N1-C2-N3	-9.11	109.44	114.90
1	AA	1500	A	C6-C5-N7	-9.11	125.92	132.30
35	BB	51	G	C6-C5-N7	-9.11	124.94	130.40
35	BB	115	C	N3-C4-C5	-9.11	118.26	121.90
35	BB	1992	G	C8-N9-C4	-9.11	102.76	106.40
35	BB	2046	G	C6-C5-N7	-9.11	124.94	130.40
35	BB	2055	C	O4'-C1'-N1	9.11	115.49	108.20
35	BB	2530	A	C4-C5-C6	9.11	121.56	117.00
4	AD	2	ARG	NE-CZ-NH1	9.11	124.85	120.30
35	BB	299	A	C5-C6-N1	-9.11	113.15	117.70
1	AA	1384	C	N3-C4-N4	9.10	124.37	118.00
35	BB	485	C	O4'-C1'-N1	9.10	115.48	108.20
35	BB	834	G	O4'-C1'-N9	9.10	115.48	108.20
35	BB	1530	G	C5-C6-N1	-9.10	106.95	111.50
1	AA	538	G	O4'-C1'-N9	9.10	115.48	108.20
1	AA	1377	A	N9-C4-C5	9.10	109.44	105.80
34	BA	94	A	N1-C6-N6	9.10	124.06	118.60
35	BB	1793	C	C5-C6-N1	9.10	125.55	121.00
35	BB	528	A	C5-C6-N1	-9.10	113.15	117.70
35	BB	2750	A	O4'-C1'-N9	9.10	115.48	108.20
1	AA	6	G	C5-N7-C8	-9.10	99.75	104.30
1	AA	773	G	C6-C5-N7	-9.10	124.94	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1363	A	N1-C6-N6	9.10	124.06	118.60
1	AA	1468	A	N1-C2-N3	9.10	133.85	129.30
35	BB	250	G	C5-C6-N1	-9.10	106.95	111.50
35	BB	330	A	C5-C6-N6	-9.10	116.42	123.70
35	BB	428	A	N1-C6-N6	9.10	124.06	118.60
1	AA	6	G	N3-C4-C5	9.10	133.15	128.60
1	AA	89	U	C5-C6-N1	9.10	127.25	122.70
2	AB	207	ARG	NE-CZ-NH2	-9.10	115.75	120.30
35	BB	665	U	O4'-C1'-N1	9.10	115.48	108.20
35	BB	956	G	N1-C6-O6	9.10	125.36	119.90
35	BB	1218	G	O4'-C1'-N9	9.10	115.48	108.20
35	BB	1828	G	N1-C2-N3	-9.10	118.44	123.90
35	BB	1858	A	O4'-C1'-N9	9.10	115.48	108.20
1	AA	1290	G	C6-C5-N7	-9.09	124.94	130.40
1	AA	41	G	N9-C4-C5	-9.09	101.76	105.40
35	BB	122	G	P-O3'-C3'	-9.09	108.79	119.70
35	BB	900	A	C5-N7-C8	9.09	108.45	103.90
35	BB	965	C	O4'-C1'-N1	9.09	115.47	108.20
1	AA	435	A	C8-N9-C4	-9.09	102.16	105.80
1	AA	398	U	O4'-C1'-N1	9.09	115.47	108.20
35	BB	494	G	N7-C8-N9	9.09	117.64	113.10
35	BB	780	G	C4-C5-N7	-9.09	107.16	110.80
35	BB	2751	G	N1-C6-O6	9.09	125.35	119.90
1	AA	65	A	N1-C6-N6	9.09	124.05	118.60
1	AA	845	A	C5-N7-C8	9.09	108.44	103.90
1	AA	988	G	C5-C6-N1	9.09	116.04	111.50
13	AM	82	LEU	CB-CG-CD2	9.09	126.45	111.00
35	BB	1341	G	N3-C2-N2	9.09	126.26	119.90
35	BB	1787	A	C5-C6-N6	-9.09	116.43	123.70
1	AA	1117	A	C5-C6-N1	-9.09	113.16	117.70
1	AA	1173	U	N3-C4-O4	9.09	125.76	119.40
35	BB	361	G	C4-C5-C6	9.09	124.25	118.80
35	BB	1472	C	C2-N3-C4	9.09	124.44	119.90
35	BB	1615	C	C6-N1-C2	-9.09	116.67	120.30
35	BB	2091	C	O4'-C1'-N1	9.09	115.47	108.20
1	AA	1331	G	N3-C4-N9	9.08	131.45	126.00
1	AA	1499	A	C5-C6-N1	-9.08	113.16	117.70
35	BB	543	G	N1-C2-N3	-9.08	118.45	123.90
35	BB	1070	A	C4'-C3'-C2'	-9.08	93.52	102.60
35	BB	1617	C	N3-C4-C5	-9.08	118.27	121.90
35	BB	2225	A	C5-C6-N6	-9.08	116.43	123.70
35	BB	2267	A	C8-N9-C4	-9.08	102.17	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1480	A	O4'-C1'-N9	9.08	115.46	108.20
34	BA	45	A	C4-C5-N7	-9.08	106.16	110.70
35	BB	2707	U	O4'-C1'-N1	9.08	115.47	108.20
35	BB	159	G	N1-C2-N3	-9.08	118.45	123.90
35	BB	721	A	C5-C6-N6	-9.08	116.44	123.70
35	BB	283	G	N1-C2-N3	-9.08	118.45	123.90
35	BB	741	U	C5-C4-O4	-9.08	120.45	125.90
35	BB	1597	A	C5-C6-N1	-9.08	113.16	117.70
35	BB	1975	G	N3-C2-N2	9.08	126.25	119.90
35	BB	2110	G	N1-C2-N3	-9.08	118.45	123.90
35	BB	2221	G	C6-C5-N7	-9.08	124.95	130.40
35	BB	2351	G	N3-C2-N2	9.08	126.25	119.90
1	AA	389	A	N1-C2-N3	9.07	133.84	129.30
1	AA	738	C	C2-N3-C4	9.07	124.44	119.90
35	BB	578	G	N1-C6-O6	9.07	125.34	119.90
35	BB	1118	C	C5-C4-N4	-9.07	113.85	120.20
35	BB	1347	A	C5-C6-N1	-9.07	113.16	117.70
35	BB	1677	A	C5-C6-N1	-9.07	113.16	117.70
35	BB	1802	A	C5-N7-C8	9.07	108.44	103.90
35	BB	260	G	C2-N3-C4	9.07	116.44	111.90
35	BB	979	A	N7-C8-N9	-9.07	109.27	113.80
35	BB	1426	G	N3-C2-N2	9.07	126.25	119.90
35	BB	1760	C	N3-C4-N4	9.07	124.35	118.00
35	BB	1823	G	N3-C4-C5	9.07	133.13	128.60
53	BT	20	ALA	N-CA-CB	9.07	122.80	110.10
35	BB	2440	C	N3-C4-N4	9.07	124.35	118.00
35	BB	896	A	C5-C6-N1	-9.07	113.17	117.70
35	BB	421	C	C5-C6-N1	9.07	125.53	121.00
35	BB	1439	A	O4'-C1'-N9	9.07	115.45	108.20
35	BB	1745	A	N1-C2-N3	9.07	133.83	129.30
35	BB	2722	G	C5-C6-O6	-9.07	123.16	128.60
1	AA	596	A	O4'-C1'-N9	9.06	115.45	108.20
30	B5	7	ARG	NE-CZ-NH1	9.06	124.83	120.30
35	BB	198	C	C5-C4-N4	-9.06	113.86	120.20
35	BB	476	G	C5-C6-N1	9.06	116.03	111.50
35	BB	1916	A	C4-C5-C6	9.06	121.53	117.00
35	BB	2428	G	N1-C6-O6	9.06	125.34	119.90
35	BB	57	C	O4'-C1'-N1	9.06	115.45	108.20
35	BB	1487	U	C5-C6-N1	9.06	127.23	122.70
1	AA	416	G	N1-C6-O6	9.06	125.34	119.90
1	AA	1134	G	N1-C6-O6	9.06	125.34	119.90
1	AA	1144	G	N9-C4-C5	9.06	109.02	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	B7	12	ARG	NE-CZ-NH1	-9.06	115.77	120.30
35	BB	578	G	C6-C5-N7	-9.06	124.96	130.40
35	BB	161	A	C5-C6-N1	-9.06	113.17	117.70
35	BB	172	A	N1-C6-N6	9.06	124.04	118.60
35	BB	453	A	N1-C6-N6	9.06	124.04	118.60
35	BB	697	G	C2-N3-C4	9.06	116.43	111.90
35	BB	1617	C	C2-N1-C1'	9.06	128.77	118.80
35	BB	1873	G	C5-C6-O6	-9.06	123.16	128.60
1	AA	512	U	C5-C4-O4	-9.06	120.47	125.90
1	AA	595	A	C4-C5-C6	9.06	121.53	117.00
35	BB	189	G	O4'-C1'-N9	9.06	115.45	108.20
35	BB	1085	A	C4-C5-N7	-9.06	106.17	110.70
35	BB	1121	C	O4'-C1'-N1	9.06	115.45	108.20
35	BB	1677	A	C5-N7-C8	9.06	108.43	103.90
35	BB	1888	G	O4'-C1'-N9	9.06	115.45	108.20
35	BB	2275	C	N3-C4-N4	9.06	124.34	118.00
35	BB	2433	A	C2-N3-C4	-9.06	106.07	110.60
1	AA	15	G	C6-C5-N7	-9.06	124.97	130.40
1	AA	959	A	P-O3'-C3'	9.06	130.57	119.70
1	AA	1429	A	C5-C6-N6	-9.06	116.45	123.70
35	BB	338	G	C5-C6-O6	-9.06	123.17	128.60
35	BB	2451	A	N1-C6-N6	9.06	124.03	118.60
35	BB	2561	U	O4'-C1'-N1	9.06	115.44	108.20
47	BN	69	ARG	NE-CZ-NH1	9.06	124.83	120.30
1	AA	138	G	N9-C4-C5	-9.05	101.78	105.40
1	AA	674	G	N1-C6-O6	9.05	125.33	119.90
1	AA	677	U	O4'-C1'-N1	9.05	115.44	108.20
35	BB	2883	A	C5-C6-N6	-9.05	116.46	123.70
35	BB	1266	G	C5-C6-O6	-9.05	123.17	128.60
35	BB	681	G	O4'-C1'-N9	9.05	115.44	108.20
35	BB	808	G	C4-C5-N7	9.05	114.42	110.80
35	BB	870	U	O4'-C1'-N1	9.05	115.44	108.20
35	BB	1168	G	C5-C6-N1	-9.05	106.97	111.50
35	BB	310	A	N7-C8-N9	-9.05	109.28	113.80
35	BB	1407	G	N9-C4-C5	9.05	109.02	105.40
35	BB	1483	G	C5-C6-O6	-9.05	123.17	128.60
35	BB	2114	A	C4-C5-C6	9.05	121.52	117.00
35	BB	2573	C	N3-C4-N4	9.05	124.33	118.00
1	AA	179	A	N1-C2-N3	-9.04	124.78	129.30
1	AA	220	G	C5-C6-O6	-9.04	123.17	128.60
7	AG	137	ARG	NE-CZ-NH1	9.04	124.82	120.30
35	BB	713	G	C8-N9-C4	9.05	110.02	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2686	G	N1-C2-N3	-9.04	118.47	123.90
1	AA	174	A	C8-N9-C4	9.04	109.42	105.80
1	AA	728	A	N1-C2-N3	-9.04	124.78	129.30
1	AA	1079	G	C8-N9-C4	-9.04	102.78	106.40
35	BB	625	G	N1-C2-N3	-9.04	118.47	123.90
35	BB	1123	C	N3-C4-C5	-9.04	118.28	121.90
1	AA	860	A	C5-C6-N6	-9.04	116.47	123.70
1	AA	964	A	C5-C6-N6	-9.04	116.47	123.70
35	BB	670	A	C8-N9-C4	-9.04	102.19	105.80
35	BB	1984	G	C4-C5-N7	9.04	114.42	110.80
35	BB	2432	A	C5-C6-N1	-9.04	113.18	117.70
1	AA	665	A	O4'-C1'-N9	9.04	115.43	108.20
1	AA	1072	G	C5-C6-O6	-9.04	123.18	128.60
1	AA	1163	A	C8-N9-C4	-9.04	102.19	105.80
1	AA	1458	G	C2-N3-C4	-9.04	107.38	111.90
34	BA	92	C	N3-C4-C5	-9.04	118.28	121.90
35	BB	1894	C	C5-C6-N1	9.04	125.52	121.00
35	BB	2645	G	N1-C6-O6	9.04	125.32	119.90
35	BB	2649	C	C5-C4-N4	-9.04	113.88	120.20
35	BB	2844	G	C5-C6-O6	-9.04	123.18	128.60
22	AV	15	G	N1-C6-O6	9.03	125.32	119.90
35	BB	141	G	O4'-C1'-N9	9.03	115.43	108.20
35	BB	2158	A	C5-C6-N1	-9.03	113.18	117.70
35	BB	693	A	N1-C2-N3	9.03	133.82	129.30
35	BB	1129	A	O4'-C1'-N9	9.03	115.43	108.20
35	BB	1458	U	O4'-C1'-N1	9.03	115.42	108.20
35	BB	1521	G	O4'-C1'-N9	9.03	115.42	108.20
35	BB	1927	A	P-O3'-C3'	9.03	130.54	119.70
35	BB	2842	G	C4-C5-N7	-9.03	107.19	110.80
1	AA	275	G	O4'-C1'-N9	9.03	115.42	108.20
1	AA	373	A	C2-N3-C4	9.03	115.11	110.60
1	AA	490	C	N3-C4-N4	9.03	124.32	118.00
1	AA	825	A	C5-C6-N6	-9.03	116.48	123.70
1	AA	829	G	N1-C6-O6	9.03	125.32	119.90
1	AA	1482	G	P-O3'-C3'	9.03	130.53	119.70
34	BA	87	U	C4-C5-C6	-9.03	114.28	119.70
35	BB	254	G	N3-C2-N2	9.03	126.22	119.90
35	BB	785	G	C5-C6-N1	-9.03	106.98	111.50
35	BB	1574	C	C2-N3-C4	9.03	124.41	119.90
35	BB	1632	A	C2-N3-C4	9.03	115.11	110.60
35	BB	1811	G	N9-C4-C5	9.03	109.01	105.40
35	BB	1922	G	O4'-C1'-N9	9.03	115.42	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	AM	92	ARG	NE-CZ-NH2	-9.03	115.79	120.30
30	B5	9	ARG	NE-CZ-NH1	9.03	124.81	120.30
35	BB	319	G	N3-C2-N2	9.03	126.22	119.90
35	BB	1874	C	O4'-C1'-N1	9.03	115.42	108.20
1	AA	626	G	C5-C6-O6	-9.02	123.19	128.60
1	AA	762	U	O4'-C1'-N1	9.02	115.42	108.20
1	AA	873	A	C4-C5-C6	9.02	121.51	117.00
1	AA	1249	C	N3-C4-C5	-9.02	118.29	121.90
35	BB	2124	G	C8-N9-C4	-9.02	102.79	106.40
1	AA	1188	A	N1-C2-N3	9.02	133.81	129.30
34	BA	78	A	O4'-C1'-N9	9.02	115.42	108.20
1	AA	885	G	C8-N9-C4	-9.02	102.79	106.40
1	AA	1486	G	N1-C2-N3	-9.02	118.49	123.90
35	BB	1585	C	C2-N3-C4	9.02	124.41	119.90
1	AA	382	A	C4-C5-C6	9.02	121.51	117.00
1	AA	1442	G	N9-C4-C5	9.02	109.01	105.40
31	B6	5	PHE	CB-CG-CD1	-9.02	114.49	120.80
35	BB	441	U	N3-C4-C5	-9.02	109.19	114.60
35	BB	1419	A	C4-C5-N7	-9.02	106.19	110.70
1	AA	403	C	C5-C6-N1	9.02	125.51	121.00
1	AA	1013	G	N3-C2-N2	9.02	126.21	119.90
35	BB	649	G	C5-N7-C8	-9.02	99.79	104.30
35	BB	1257	C	N3-C4-N4	9.02	124.31	118.00
35	BB	1705	A	N1-C2-N3	9.02	133.81	129.30
35	BB	2147	A	C2-N3-C4	-9.02	106.09	110.60
46	BM	91	TYR	CB-CG-CD1	9.02	126.41	121.00
1	AA	26	A	N1-C6-N6	9.01	124.01	118.60
1	AA	785	G	C6-C5-N7	-9.01	124.99	130.40
35	BB	2023	C	C6-N1-C2	-9.01	116.69	120.30
35	BB	2369	A	N9-C4-C5	9.01	109.41	105.80
35	BB	1527	G	N3-C2-N2	9.01	126.21	119.90
35	BB	2760	C	N3-C4-N4	9.01	124.31	118.00
1	AA	130	A	C4-C5-N7	-9.01	106.19	110.70
1	AA	305	G	C1'-O4'-C4'	9.01	117.11	109.90
35	BB	2848	G	N3-C2-N2	9.01	126.21	119.90
1	AA	457	G	C5-C6-N1	-9.01	107.00	111.50
1	AA	633	G	N3-C4-N9	9.01	131.41	126.00
1	AA	828	U	C5-C6-N1	9.01	127.20	122.70
1	AA	1386	G	C5-C6-O6	-9.01	123.19	128.60
35	BB	313	G	N1-C2-N3	-9.01	118.50	123.90
35	BB	1202	G	N1-C6-O6	9.01	125.31	119.90
35	BB	1248	G	N1-C2-N3	-9.01	118.50	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1254	A	C2-N3-C4	-9.01	106.09	110.60
35	BB	2722	G	N3-C2-N2	9.01	126.21	119.90
1	AA	138	G	C4-C5-N7	9.01	114.40	110.80
1	AA	586	C	N3-C4-C5	-9.01	118.30	121.90
1	AA	1299	A	N9-C4-C5	9.01	109.40	105.80
35	BB	1713	A	C5-C6-N1	-9.01	113.20	117.70
1	AA	514	C	C5-C6-N1	9.01	125.50	121.00
1	AA	1488	G	N1-C6-O6	9.01	125.30	119.90
35	BB	795	C	O4'-C1'-N1	9.01	115.41	108.20
35	BB	2429	G	C5-C6-O6	-9.01	123.20	128.60
35	BB	2346	A	O4'-C1'-N9	9.01	115.40	108.20
1	AA	792	A	C4-C5-C6	9.00	121.50	117.00
35	BB	901	C	C4-C5-C6	9.00	121.90	117.40
1	AA	876	C	O4'-C1'-N1	9.00	115.40	108.20
34	BA	109	A	C6-C5-N7	-9.00	126.00	132.30
35	BB	2740	A	C6-N1-C2	-9.00	113.20	118.60
22	AV	24	G	N1-C6-O6	9.00	125.30	119.90
22	AV	50	G	N1-C6-O6	9.00	125.30	119.90
35	BB	2744	G	N1-C6-O6	9.00	125.30	119.90
1	AA	295	C	O4'-C1'-N1	9.00	115.40	108.20
1	AA	1163	A	C6-N1-C2	9.00	124.00	118.60
5	AE	137	ARG	NE-CZ-NH2	-9.00	115.80	120.30
34	BA	53	A	C5-C6-N6	-9.00	116.50	123.70
35	BB	213	A	C5-C6-N1	-9.00	113.20	117.70
35	BB	619	G	O4'-C1'-N9	9.00	115.40	108.20
35	BB	1030	C	O4'-C1'-N1	9.00	115.40	108.20
1	AA	635	A	C5-C6-N6	-9.00	116.50	123.70
35	BB	159	G	O4'-C1'-N9	9.00	115.40	108.20
35	BB	389	G	N1-C2-N3	-9.00	118.50	123.90
35	BB	1014	A	C5-C6-N1	-9.00	113.20	117.70
35	BB	2765	A	C5-C6-N6	-9.00	116.50	123.70
35	BB	2823	A	N1-C6-N6	9.00	124.00	118.60
1	AA	1366	C	C5-C4-N4	-8.99	113.91	120.20
1	AA	1521	C	N3-C4-N4	8.99	124.30	118.00
35	BB	2201	G	C5-C6-N1	-8.99	107.00	111.50
35	BB	2777	G	N7-C8-N9	-8.99	108.60	113.10
35	BB	1010	A	C5-N7-C8	8.99	108.40	103.90
1	AA	238	A	N1-C6-N6	8.99	124.00	118.60
35	BB	603	A	C5-C6-N6	-8.99	116.51	123.70
35	BB	942	G	C5-C6-O6	-8.99	123.21	128.60
35	BB	2304	G	N1-C2-N3	-8.99	118.50	123.90
35	BB	1480	C	O4'-C1'-N1	8.99	115.39	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2241	A	N9-C4-C5	8.99	109.39	105.80
1	AA	175	C	N3-C4-C5	-8.99	118.31	121.90
1	AA	744	C	O4'-C1'-N1	8.99	115.39	108.20
35	BB	172	A	C5-N7-C8	8.99	108.39	103.90
35	BB	1349	C	O4'-C1'-N1	8.99	115.39	108.20
35	BB	2345	G	N1-C6-O6	8.99	125.29	119.90
35	BB	2715	C	N3-C4-N4	8.99	124.29	118.00
1	AA	419	C	C6-N1-C2	-8.98	116.71	120.30
35	BB	193	U	C5-C4-O4	-8.98	120.51	125.90
35	BB	482	A	N1-C2-N3	8.98	133.79	129.30
35	BB	1191	G	C5-C6-O6	-8.98	123.21	128.60
35	BB	2241	A	C4-C5-N7	-8.98	106.21	110.70
35	BB	1383	A	N9-C4-C5	8.98	109.39	105.80
35	BB	1550	C	N3-C2-O2	-8.98	115.61	121.90
35	BB	2712	C	P-O3'-C3'	8.98	130.48	119.70
35	BB	2611	C	C6-N1-C2	8.98	123.89	120.30
35	BB	2759	G	C4-C5-N7	8.98	114.39	110.80
1	AA	1002	G	N3-C4-C5	-8.98	124.11	128.60
35	BB	2889	C	N3-C4-N4	8.98	124.29	118.00
35	BB	667	U	O4'-C1'-N1	8.98	115.38	108.20
1	AA	125	U	C5-C4-O4	-8.98	120.51	125.90
1	AA	475	C	N3-C4-C5	-8.98	118.31	121.90
1	AA	864	A	C5-C6-N1	-8.98	113.21	117.70
35	BB	261	G	C6-C5-N7	-8.98	125.01	130.40
35	BB	1767	G	N1-C6-O6	8.98	125.29	119.90
35	BB	432	A	O4'-C1'-N9	8.98	115.38	108.20
35	BB	1272	A	C4-C5-C6	8.98	121.49	117.00
1	AA	874	G	C5-C6-O6	-8.97	123.22	128.60
1	AA	1337	G	N1-C6-O6	8.97	125.28	119.90
35	BB	425	G	N3-C4-N9	-8.97	120.62	126.00
1	AA	371	A	N3-C4-C5	-8.97	120.52	126.80
1	AA	1024	G	C5-C6-N1	-8.97	107.01	111.50
1	AA	1134	G	O4'-C1'-N9	8.97	115.38	108.20
1	AA	918	A	C5-C6-N1	-8.97	113.22	117.70
35	BB	377	G	O4'-C1'-N9	8.97	115.38	108.20
35	BB	689	A	N1-C6-N6	8.97	123.98	118.60
35	BB	939	G	N3-C2-N2	8.97	126.18	119.90
35	BB	1560	G	C5-C6-O6	-8.97	123.22	128.60
1	AA	300	A	O4'-C1'-N9	8.97	115.38	108.20
1	AA	1446	A	O4'-C1'-N9	8.97	115.38	108.20
35	BB	44	A	C5-C6-N6	-8.97	116.53	123.70
35	BB	901	C	C2-N3-C4	8.97	124.38	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1049	C	N3-C4-C5	-8.97	118.31	121.90
35	BB	1763	G	N1-C6-O6	8.97	125.28	119.90
35	BB	2657	A	O4'-C1'-N9	8.97	115.37	108.20
35	BB	2801	G	O4'-C1'-N9	8.97	115.37	108.20
35	BB	239	C	O4'-C1'-N1	8.97	115.37	108.20
35	BB	2370	G	N1-C6-O6	8.97	125.28	119.90
1	AA	21	G	C8-N9-C4	-8.96	102.81	106.40
1	AA	666	G	N3-C2-N2	8.96	126.17	119.90
1	AA	1073	U	P-O3'-C3'	-8.96	108.94	119.70
1	AA	153	C	N3-C4-C5	-8.96	118.31	121.90
1	AA	327	A	C5-N7-C8	8.96	108.38	103.90
1	AA	546	A	C5-C6-N1	-8.96	113.22	117.70
1	AA	413	G	N7-C8-N9	-8.96	108.62	113.10
1	AA	610	U	N3-C4-O4	8.96	125.67	119.40
1	AA	1267	C	O4'-C1'-N1	8.96	115.37	108.20
4	AD	145	ARG	NE-CZ-NH2	8.96	124.78	120.30
35	BB	1439	A	C5-N7-C8	8.96	108.38	103.90
35	BB	1989	G	O4'-C1'-N9	8.96	115.37	108.20
35	BB	1368	G	N1-C6-O6	8.96	125.28	119.90
35	BB	2645	G	N3-C2-N2	8.96	126.17	119.90
40	BG	156	TYR	CB-CG-CD1	-8.96	115.62	121.00
1	AA	107	G	C5-C6-N1	-8.96	107.02	111.50
1	AA	255	G	C4-C5-C6	8.96	124.17	118.80
1	AA	1447	A	C4-C5-C6	8.96	121.48	117.00
35	BB	180	G	C8-N9-C4	-8.96	102.82	106.40
35	BB	1325	U	C5-C6-N1	8.96	127.18	122.70
35	BB	1885	A	C2-N3-C4	-8.96	106.12	110.60
1	AA	62	U	C5-C4-O4	-8.96	120.53	125.90
35	BB	268	C	O4'-C1'-N1	8.96	115.36	108.20
35	BB	1147	A	C4-C5-C6	8.96	121.48	117.00
35	BB	2710	C	N3-C4-C5	-8.96	118.32	121.90
35	BB	818	G	O4'-C1'-N9	8.95	115.36	108.20
35	BB	1967	C	O4'-C1'-N1	8.96	115.36	108.20
1	AA	658	C	C6-N1-C2	-8.95	116.72	120.30
1	AA	1127	G	C8-N9-C4	-8.95	102.82	106.40
22	AV	42	G	N1-C6-O6	8.95	125.27	119.90
35	BB	1635	A	C5-C6-N6	-8.95	116.54	123.70
35	BB	1053	C	N3-C4-C5	-8.95	118.32	121.90
35	BB	1070	A	N1-C6-N6	8.95	123.97	118.60
35	BB	1268	A	C8-N9-C4	8.95	109.38	105.80
35	BB	1950	G	N1-C6-O6	8.95	125.27	119.90
35	BB	361	G	C6-C5-N7	-8.95	125.03	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1447	C	C6-N1-C2	-8.95	116.72	120.30
35	BB	1814	G	N3-C2-N2	8.95	126.16	119.90
35	BB	2819	G	C6-C5-N7	-8.95	125.03	130.40
1	AA	424	G	C6-C5-N7	-8.95	125.03	130.40
1	AA	645	G	N1-C2-N3	-8.95	118.53	123.90
35	BB	950	G	N3-C4-C5	8.95	133.07	128.60
35	BB	1873	G	O4'-C1'-N9	8.95	115.36	108.20
1	AA	167	A	C5-C6-N6	-8.94	116.54	123.70
1	AA	1186	G	O4'-C1'-N9	8.94	115.36	108.20
35	BB	2281	A	C5-C6-N6	-8.95	116.54	123.70
1	AA	106	C	C2-N3-C4	8.94	124.37	119.90
35	BB	161	A	C8-N9-C4	-8.94	102.22	105.80
35	BB	599	A	N1-C2-N3	8.94	133.77	129.30
35	BB	654	A	C4-C5-N7	-8.94	106.23	110.70
35	BB	696	G	C4-C5-C6	8.94	124.17	118.80
1	AA	1404	C	N3-C4-N4	8.94	124.26	118.00
19	AS	36	ARG	NE-CZ-NH2	-8.94	115.83	120.30
34	BA	118	C	C4-C5-C6	8.94	121.87	117.40
35	BB	2501	C	N3-C4-C5	-8.94	118.32	121.90
35	BB	68	G	C3'-C2'-C1'	8.94	108.65	101.50
35	BB	2107	G	N3-C2-N2	8.94	126.16	119.90
35	BB	15	G	N1-C2-N3	-8.94	118.54	123.90
1	AA	517	G	C6-C5-N7	-8.94	125.04	130.40
35	BB	800	A	C5-C6-N1	-8.94	113.23	117.70
35	BB	1253	A	C5-N7-C8	8.94	108.37	103.90
35	BB	1644	C	N3-C4-N4	8.94	124.25	118.00
35	BB	1704	C	N3-C4-C5	-8.94	118.33	121.90
38	BE	172	ALA	N-CA-CB	8.94	122.61	110.10
35	BB	1797	G	C5-C6-O6	-8.94	123.24	128.60
35	BB	2341	G	N1-C6-O6	8.94	125.26	119.90
35	BB	2503	A	C5-N7-C8	8.94	108.37	103.90
3	AC	10	ARG	NE-CZ-NH1	8.93	124.77	120.30
35	BB	1443	U	N3-C2-O2	8.93	128.45	122.20
35	BB	1927	A	C5-C6-N6	-8.93	116.55	123.70
35	BB	84	A	C4-C5-N7	-8.93	106.23	110.70
35	BB	1544	A	N9-C4-C5	-8.93	102.23	105.80
35	BB	1885	A	N1-C2-N3	8.93	133.77	129.30
35	BB	2140	G	N1-C6-O6	8.93	125.26	119.90
35	BB	2623	G	N1-C6-O6	8.93	125.26	119.90
35	BB	2781	A	C5-C6-N1	-8.93	113.23	117.70
35	BB	1969	A	C4-C5-N7	-8.93	106.23	110.70
35	BB	2671	G	C5-C6-O6	-8.93	123.24	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	553	A	C4-C5-C6	8.93	121.46	117.00
35	BB	819	A	C8-N9-C4	-8.93	102.23	105.80
35	BB	2407	A	C4-C5-N7	-8.93	106.24	110.70
35	BB	1756	G	C6-C5-N7	-8.93	125.04	130.40
35	BB	2230	G	C5-C6-O6	-8.93	123.24	128.60
35	BB	313	G	C2-N3-C4	8.92	116.36	111.90
35	BB	539	G	N3-C4-C5	8.92	133.06	128.60
35	BB	214	G	N3-C2-N2	8.92	126.15	119.90
35	BB	1150	C	C2-N3-C4	8.92	124.36	119.90
1	AA	299	G	N3-C4-C5	8.92	133.06	128.60
1	AA	315	A	N7-C8-N9	-8.92	109.34	113.80
1	AA	1261	A	N1-C6-N6	8.92	123.95	118.60
35	BB	1710	G	N1-C2-N3	-8.92	118.55	123.90
35	BB	2038	G	N1-C6-O6	8.92	125.25	119.90
1	AA	474	G	N1-C6-O6	8.92	125.25	119.90
1	AA	528	C	C5-C6-N1	-8.92	116.54	121.00
1	AA	538	G	N1-C2-N3	-8.92	118.55	123.90
1	AA	812	G	C5-C6-O6	-8.92	123.25	128.60
35	BB	725	G	O4'-C1'-N9	8.92	115.33	108.20
35	BB	954	G	O4'-C1'-N9	8.92	115.33	108.20
35	BB	1035	U	O4'-C1'-N1	8.92	115.33	108.20
35	BB	1328	A	C4-C5-N7	-8.92	106.24	110.70
35	BB	1366	A	C4-C5-C6	8.92	121.46	117.00
35	BB	1424	G	C4'-C3'-C2'	-8.92	93.68	102.60
35	BB	2669	G	C6-C5-N7	-8.92	125.05	130.40
51	BR	84	ARG	NE-CZ-NH1	-8.92	115.84	120.30
1	AA	336	A	N1-C2-N3	-8.91	124.84	129.30
1	AA	954	G	C5-C6-N1	-8.91	107.04	111.50
35	BB	2023	C	N3-C2-O2	-8.91	115.66	121.90
1	AA	533	A	N1-C6-N6	8.91	123.95	118.60
34	BA	16	G	C6-C5-N7	-8.91	125.05	130.40
35	BB	1295	C	N3-C4-N4	8.91	124.24	118.00
35	BB	2057	G	C6-N1-C2	8.91	130.45	125.10
35	BB	2697	G	C5-C6-O6	-8.91	123.25	128.60
1	AA	1490	U	N1-C2-N3	8.91	120.25	114.90
35	BB	778	G	N9-C4-C5	-8.91	101.83	105.40
35	BB	1291	C	C5-C6-N1	8.91	125.46	121.00
35	BB	1655	A	C5-C6-N1	-8.91	113.24	117.70
35	BB	1973	G	N1-C2-N3	-8.91	118.55	123.90
35	BB	2341	G	C5-N7-C8	-8.91	99.84	104.30
35	BB	2896	C	N3-C4-C5	-8.91	118.33	121.90
45	BL	60	ARG	NE-CZ-NH1	8.91	124.76	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	85	U	N1-C2-N3	-8.91	109.55	114.90
1	AA	603	U	N1-C2-N3	8.91	120.25	114.90
1	AA	668	G	C5-C6-O6	-8.91	123.25	128.60
1	AA	949	A	C8-N9-C4	-8.91	102.24	105.80
3	AC	163	ARG	NE-CZ-NH1	8.91	124.75	120.30
35	BB	2068	U	N3-C4-C5	-8.91	109.25	114.60
35	BB	2083	G	N1-C2-N3	-8.91	118.55	123.90
35	BB	2643	G	C8-N9-C4	-8.91	102.84	106.40
55	BW	45	ASP	CB-CG-OD1	-8.91	110.28	118.30
3	AC	41	TYR	CB-CG-CD1	8.91	126.34	121.00
35	BB	881	G	C8-N9-C4	-8.91	102.84	106.40
35	BB	1182	G	C5-C6-O6	-8.91	123.25	128.60
35	BB	1697	G	O4'-C1'-N9	8.91	115.33	108.20
35	BB	1848	A	N1-C6-N6	8.91	123.94	118.60
35	BB	2471	A	C6-C5-N7	-8.91	126.06	132.30
35	BB	2758	A	C8-N9-C4	8.91	109.36	105.80
56	BY	38	ARG	NE-CZ-NH2	-8.91	115.85	120.30
1	AA	997	U	O4'-C1'-N1	8.90	115.32	108.20
1	AA	1252	A	C5-C6-N1	-8.90	113.25	117.70
35	BB	64	A	O4'-C1'-N9	8.90	115.32	108.20
35	BB	437	U	C5-C6-N1	8.90	127.15	122.70
1	AA	1398	A	C4-C5-N7	-8.90	106.25	110.70
35	BB	229	C	O4'-C1'-N1	8.90	115.32	108.20
35	BB	598	U	O4'-C1'-N1	8.90	115.32	108.20
35	BB	1126	A	C6-N1-C2	8.90	123.94	118.60
35	BB	1551	A	O4'-C1'-N9	8.90	115.32	108.20
35	BB	1260	A	N1-C6-N6	8.90	123.94	118.60
35	BB	1291	C	N1-C2-O2	-8.90	113.56	118.90
35	BB	1564	C	N3-C4-N4	8.90	124.23	118.00
35	BB	2361	G	N3-C2-N2	8.90	126.13	119.90
1	AA	314	C	N3-C4-C5	-8.90	118.34	121.90
21	AU	44	ARG	NE-CZ-NH1	8.90	124.75	120.30
1	AA	147	G	N1-C6-O6	8.90	125.24	119.90
1	AA	768	A	N1-C6-N6	8.90	123.94	118.60
1	AA	1370	G	N3-C2-N2	8.90	126.13	119.90
35	BB	513	A	N1-C6-N6	8.90	123.94	118.60
35	BB	1690	A	C5-C6-N6	-8.90	116.58	123.70
1	AA	785	G	C4-C5-N7	8.89	114.36	110.80
35	BB	1443	U	C5-C6-N1	8.89	127.15	122.70
1	AA	798	U	O4'-C1'-N1	8.89	115.31	108.20
1	AA	889	A	N1-C6-N6	8.89	123.94	118.60
1	AA	1347	G	N3-C2-N2	8.89	126.12	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1307	A	N1-C6-N6	8.89	123.94	118.60
35	BB	1966	A	N1-C2-N3	8.89	133.75	129.30
35	BB	2008	C	O4'-C1'-N1	8.89	115.31	108.20
35	BB	2317	A	C5-C6-N1	-8.89	113.25	117.70
35	BB	2624	G	N1-C6-O6	8.89	125.24	119.90
1	AA	323	U	C5-C6-N1	8.89	127.15	122.70
35	BB	1493	C	O4'-C1'-N1	8.89	115.31	108.20
35	BB	2207	C	O4'-C1'-N1	8.89	115.31	108.20
1	AA	910	C	N3-C4-C5	-8.89	118.34	121.90
35	BB	838	C	N3-C4-C5	-8.89	118.34	121.90
35	BB	2867	G	O4'-C1'-N9	8.89	115.31	108.20
1	AA	523	A	N1-C6-N6	8.89	123.93	118.60
1	AA	40	C	N3-C4-N4	8.89	124.22	118.00
1	AA	636	U	C5-C4-O4	-8.89	120.57	125.90
35	BB	985	C	N3-C4-C5	-8.89	118.34	121.90
35	BB	1188	U	C4-C5-C6	-8.89	114.37	119.70
35	BB	1233	C	N3-C4-N4	8.89	124.22	118.00
1	AA	162	A	C5-C6-N6	-8.89	116.59	123.70
1	AA	1345	U	C2-N3-C4	-8.89	121.67	127.00
35	BB	19	A	C5-C6-N1	-8.89	113.26	117.70
35	BB	1045	C	C5-C6-N1	8.89	125.44	121.00
35	BB	1332	G	C6-C5-N7	-8.89	125.07	130.40
1	AA	1305	G	O4'-C1'-N9	8.88	115.31	108.20
34	BA	101	A	C5-C6-N6	-8.88	116.59	123.70
35	BB	1059	G	N9-C4-C5	-8.88	101.85	105.40
35	BB	1157	G	C4-C5-C6	8.88	124.13	118.80
35	BB	2861	U	O4'-C1'-N1	8.88	115.31	108.20
1	AA	1141	C	N3-C4-N4	8.88	124.22	118.00
35	BB	306	U	N3-C4-O4	8.88	125.62	119.40
35	BB	325	G	N3-C2-N2	8.88	126.12	119.90
35	BB	1805	A	O4'-C1'-N9	8.88	115.31	108.20
1	AA	355	C	N3-C2-O2	8.88	128.12	121.90
1	AA	496	A	O4'-C1'-N9	8.88	115.30	108.20
1	AA	1028	C	N1-C2-N3	-8.88	112.98	119.20
1	AA	1500	A	O4'-C1'-N9	8.88	115.31	108.20
35	BB	2685	G	C5-C6-N1	8.88	115.94	111.50
34	BA	112	G	C8-N9-C4	-8.88	102.85	106.40
35	BB	1003	G	N1-C6-O6	8.88	125.23	119.90
35	BB	1528	A	C5-C6-N6	-8.88	116.60	123.70
35	BB	2853	C	N3-C4-C5	-8.88	118.35	121.90
35	BB	758	C	N3-C4-C5	-8.88	118.35	121.90
35	BB	876	C	N3-C4-N4	8.88	124.21	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	945	A	N3-C4-C5	-8.88	120.59	126.80
1	AA	752	G	N1-C6-O6	8.88	125.22	119.90
1	AA	816	A	N1-C6-N6	8.87	123.92	118.60
1	AA	1230	C	C5-C4-N4	-8.87	113.99	120.20
1	AA	1442	G	C8-N9-C4	-8.88	102.85	106.40
35	BB	1919	A	C5-C6-N1	-8.88	113.26	117.70
35	BB	449	A	C4-C5-C6	8.87	121.44	117.00
52	BS	5	ALA	N-CA-CB	8.88	122.53	110.10
1	AA	633	G	N3-C2-N2	8.87	126.11	119.90
1	AA	759	A	N7-C8-N9	8.87	118.24	113.80
1	AA	1184	G	O4'-C1'-N9	8.87	115.30	108.20
1	AA	1281	C	C6-N1-C2	-8.87	116.75	120.30
22	AV	39	G	C6-C5-N7	-8.87	125.08	130.40
34	BA	16	G	C5-C6-O6	-8.87	123.28	128.60
35	BB	80	G	C4-C5-C6	8.87	124.12	118.80
35	BB	283	G	C2-N3-C4	8.87	116.34	111.90
35	BB	1665	A	N1-C6-N6	8.87	123.92	118.60
35	BB	977	G	O4'-C1'-N9	8.87	115.30	108.20
35	BB	2221	G	O4'-C1'-N9	8.87	115.30	108.20
35	BB	2777	G	C2-N3-C4	8.87	116.34	111.90
1	AA	608	A	N1-C6-N6	8.87	123.92	118.60
1	AA	1207	G	N3-C4-N9	8.87	131.32	126.00
1	AA	1375	A	N1-C6-N6	8.87	123.92	118.60
35	BB	39	G	C5-C6-O6	-8.87	123.28	128.60
35	BB	149	A	O4'-C1'-N9	8.87	115.29	108.20
35	BB	218	A	C5-N7-C8	8.87	108.33	103.90
35	BB	230	G	O4'-C1'-N9	8.87	115.29	108.20
35	BB	766	U	N3-C4-C5	-8.87	109.28	114.60
35	BB	2526	G	C8-N9-C4	8.87	109.95	106.40
1	AA	1032	G	N1-C2-N3	-8.87	118.58	123.90
1	AA	1289	A	C5-C6-N1	-8.87	113.27	117.70
35	BB	1561	C	C1'-O4'-C4'	8.86	116.99	109.90
35	BB	1702	G	O4'-C1'-N9	8.86	115.29	108.20
35	BB	2009	A	C5-C6-N6	-8.87	116.61	123.70
1	AA	337	G	C2-N3-C4	8.86	116.33	111.90
35	BB	2155	U	O4'-C1'-N1	8.86	115.29	108.20
35	BB	2617	U	O4'-C1'-N1	8.86	115.29	108.20
1	AA	50	A	C4-C5-C6	8.86	121.43	117.00
1	AA	1502	A	N1-C6-N6	8.86	123.92	118.60
35	BB	735	A	C2-N3-C4	-8.86	106.17	110.60
35	BB	1503	A	O4'-C1'-N9	8.86	115.29	108.20
35	BB	1616	A	C6-N1-C2	-8.86	113.28	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2183	A	C4-C5-C6	8.86	121.43	117.00
56	BY	44	PHE	CB-CG-CD2	-8.86	114.60	120.80
1	AA	107	G	C8-N9-C4	-8.86	102.86	106.40
35	BB	201	C	O4'-C1'-N1	8.86	115.28	108.20
35	BB	2006	C	N3-C4-N4	8.86	124.20	118.00
35	BB	2389	G	N1-C6-O6	8.86	125.21	119.90
35	BB	2869	G	N1-C6-O6	8.86	125.21	119.90
1	AA	550	G	C4-C5-C6	8.85	124.11	118.80
35	BB	1207	C	N1-C2-O2	8.85	124.21	118.90
52	BS	95	ARG	NE-CZ-NH2	8.85	124.73	120.30
1	AA	1039	G	C5-C6-N1	8.85	115.93	111.50
35	BB	211	C	N1-C2-O2	8.85	124.21	118.90
35	BB	2012	G	N3-C2-N2	8.85	126.10	119.90
35	BB	985	C	O4'-C1'-N1	8.85	115.28	108.20
1	AA	1273	C	N3-C4-N4	8.85	124.19	118.00
22	AV	29	G	N1-C6-O6	8.85	125.21	119.90
35	BB	477	A	C4-C5-C6	8.85	121.42	117.00
35	BB	2468	A	N3-C4-C5	-8.85	120.61	126.80
35	BB	2500	U	C5-C4-O4	-8.85	120.59	125.90
1	AA	1127	G	N9-C4-C5	8.85	108.94	105.40
35	BB	250	G	C6-C5-N7	-8.85	125.09	130.40
35	BB	822	G	C4-C5-C6	8.85	124.11	118.80
35	BB	2024	G	C6-C5-N7	-8.85	125.09	130.40
35	BB	2705	A	O4'-C1'-N9	8.84	115.27	108.20
1	AA	66	A	C2-N3-C4	-8.84	106.18	110.60
35	BB	121	G	C5-C6-O6	-8.84	123.30	128.60
35	BB	631	A	O4'-C1'-N9	8.84	115.27	108.20
1	AA	674	G	N3-C2-N2	8.84	126.09	119.90
1	AA	1037	C	O4'-C1'-N1	8.84	115.27	108.20
35	BB	366	C	N3-C4-C5	-8.84	118.36	121.90
35	BB	983	A	O4'-C1'-N9	8.84	115.27	108.20
35	BB	1080	A	C4-C5-N7	-8.84	106.28	110.70
1	AA	196	A	C4-C5-N7	-8.84	106.28	110.70
1	AA	295	C	C5-C4-N4	-8.84	114.01	120.20
1	AA	1138	G	C6-C5-N7	-8.84	125.10	130.40
35	BB	959	A	N1-C6-N6	8.84	123.90	118.60
35	BB	2039	U	N3-C4-O4	8.84	125.59	119.40
1	AA	853	C	N1-C1'-C2'	-8.84	102.28	112.00
1	AA	1527	U	C2-N3-C4	-8.84	121.70	127.00
34	BA	50	A	C5-C6-N6	-8.84	116.63	123.70
35	BB	376	G	C5-C6-O6	-8.84	123.30	128.60
35	BB	1472	C	N3-C4-N4	8.84	124.19	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1611	C	O4'-C1'-N1	8.84	115.27	108.20
35	BB	2429	G	N1-C6-O6	8.84	125.20	119.90
1	AA	176	C	O4'-C1'-N1	8.83	115.27	108.20
1	AA	1050	G	N1-C6-O6	8.83	125.20	119.90
1	AA	718	A	C5-C6-N6	-8.83	116.63	123.70
35	BB	339	U	N3-C4-O4	8.83	125.58	119.40
35	BB	636	G	N1-C2-N3	-8.83	118.60	123.90
1	AA	138	G	O4'-C1'-N9	8.83	115.27	108.20
1	AA	764	C	O4'-C1'-N1	8.83	115.27	108.20
34	BA	49	C	C6-N1-C2	-8.83	116.77	120.30
35	BB	352	A	C5-C6-N6	-8.83	116.64	123.70
35	BB	417	C	C5-C6-N1	8.83	125.42	121.00
1	AA	283	U	C1'-O4'-C4'	8.83	116.96	109.90
1	AA	318	G	C5-C6-O6	-8.83	123.30	128.60
1	AA	551	U	O4'-C1'-N1	8.83	115.26	108.20
1	AA	556	C	C5-C4-N4	-8.83	114.02	120.20
1	AA	890	G	P-O3'-C3'	8.83	130.29	119.70
1	AA	1427	C	N3-C4-C5	-8.83	118.37	121.90
35	BB	237	C	N3-C4-N4	8.83	124.18	118.00
35	BB	1566	A	C5-N7-C8	8.83	108.31	103.90
35	BB	780	G	N9-C4-C5	8.83	108.93	105.40
35	BB	1588	G	C4-C5-C6	8.83	124.10	118.80
35	BB	2001	C	C5-C4-N4	-8.83	114.02	120.20
35	BB	146	A	C4-C5-C6	8.82	121.41	117.00
35	BB	2115	G	N3-C2-N2	8.82	126.08	119.90
35	BB	2157	G	C5-C6-O6	-8.82	123.31	128.60
35	BB	2304	G	O4'-C1'-N9	8.82	115.26	108.20
1	AA	1017	U	O4'-C1'-N1	8.82	115.26	108.20
1	AA	1092	A	C4-C5-C6	8.82	121.41	117.00
35	BB	90	U	P-O3'-C3'	8.82	130.29	119.70
35	BB	294	A	O4'-C1'-N9	8.82	115.26	108.20
35	BB	1308	A	N1-C6-N6	8.82	123.89	118.60
35	BB	2040	G	N3-C4-C5	8.82	133.01	128.60
35	BB	2131	U	C5-C6-N1	8.82	127.11	122.70
35	BB	2176	A	C5-N7-C8	8.82	108.31	103.90
1	AA	790	A	C4-C5-C6	8.82	121.41	117.00
1	AA	1385	G	N1-C2-N2	8.82	124.14	116.20
35	BB	47	C	P-O3'-C3'	8.82	130.28	119.70
35	BB	1862	G	C4-C5-C6	8.82	124.09	118.80
35	BB	2843	G	N3-C2-N2	8.82	126.07	119.90
1	AA	42	G	P-O5'-C5'	8.82	135.01	120.90
1	AA	711	G	N3-C2-N2	8.82	126.07	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	731	G	C5-C6-N1	-8.82	107.09	111.50
1	AA	824	G	O4'-C1'-N9	8.82	115.25	108.20
1	AA	943	U	O4'-C1'-N1	8.82	115.25	108.20
15	AO	63	ARG	NE-CZ-NH1	8.82	124.71	120.30
35	BB	1378	A	P-O5'-C5'	-8.82	106.79	120.90
35	BB	2858	C	O4'-C1'-N1	8.82	115.25	108.20
1	AA	43	C	N3-C4-N4	8.81	124.17	118.00
1	AA	1149	C	O4'-C1'-N1	8.81	115.25	108.20
35	BB	668	A	N9-C4-C5	8.81	109.33	105.80
1	AA	401	C	O4'-C1'-N1	8.81	115.25	108.20
35	BB	1143	A	N3-C4-C5	-8.81	120.63	126.80
35	BB	1307	A	O4'-C1'-N9	8.81	115.25	108.20
35	BB	2071	A	N7-C8-N9	8.81	118.21	113.80
1	AA	926	G	C5-C6-N1	-8.81	107.09	111.50
1	AA	1128	C	N3-C4-C5	-8.81	118.38	121.90
35	BB	911	A	N1-C6-N6	8.81	123.89	118.60
35	BB	1062	G	C6-C5-N7	-8.81	125.11	130.40
35	BB	1335	C	N3-C4-C5	-8.81	118.38	121.90
35	BB	1341	G	C6-C5-N7	-8.81	125.11	130.40
35	BB	2184	A	C6-N1-C2	8.81	123.89	118.60
1	AA	874	G	O4'-C1'-N9	8.81	115.25	108.20
1	AA	1127	G	C6-C5-N7	-8.81	125.12	130.40
22	AV	74	C	O4'-C1'-N1	8.81	115.25	108.20
34	BA	43	C	N3-C4-N4	8.81	124.17	118.00
35	BB	566	U	O4'-C1'-N1	8.81	115.25	108.20
35	BB	1652	A	N9-C4-C5	8.81	109.32	105.80
35	BB	1909	C	C6-N1-C2	-8.81	116.78	120.30
1	AA	33	A	N1-C6-N6	8.80	123.88	118.60
1	AA	208	U	O4'-C1'-N1	8.80	115.24	108.20
1	AA	1482	G	C8-N9-C4	-8.81	102.88	106.40
35	BB	1783	A	N1-C6-N6	8.81	123.88	118.60
35	BB	1884	G	C3'-C2'-C1'	8.81	108.54	101.50
35	BB	2759	G	N3-C2-N2	8.81	126.06	119.90
35	BB	1223	G	C5-C6-O6	-8.80	123.32	128.60
35	BB	1650	A	O4'-C1'-N9	8.80	115.24	108.20
35	BB	1997	C	N3-C4-C5	-8.80	118.38	121.90
35	BB	2268	A	C2-N3-C4	8.80	115.00	110.60
35	BB	2810	A	O4'-C1'-N9	8.80	115.24	108.20
35	BB	1113	U	N1-C2-N3	8.80	120.18	114.90
1	AA	221	C	C2-N3-C4	8.80	124.30	119.90
1	AA	450	G	C4-C5-C6	8.80	124.08	118.80
1	AA	1105	A	C8-N9-C4	8.80	109.32	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	422	A	N1-C6-N6	8.80	123.88	118.60
35	BB	2204	G	C5-C6-O6	-8.80	123.32	128.60
35	BB	2247	A	N7-C8-N9	-8.80	109.40	113.80
1	AA	860	A	O4'-C1'-N9	8.80	115.24	108.20
22	AV	37	G	O4'-C1'-N9	8.80	115.24	108.20
1	AA	1244	G	O4'-C1'-N9	8.80	115.24	108.20
35	BB	640	C	O4'-C1'-N1	8.80	115.24	108.20
35	BB	807	U	P-O3'-C3'	-8.80	109.14	119.70
35	BB	887	U	C5-C6-N1	8.80	127.10	122.70
35	BB	1416	G	C5-C6-N1	-8.80	107.10	111.50
35	BB	1874	C	N3-C4-N4	8.80	124.16	118.00
35	BB	1968	G	C4-C5-N7	8.80	114.32	110.80
1	AA	690	G	N1-C6-O6	8.80	125.18	119.90
1	AA	1014	A	C4-C5-C6	8.80	121.40	117.00
35	BB	19	A	C4-C5-C6	8.79	121.40	117.00
35	BB	966	G	C5-C6-O6	-8.79	123.32	128.60
35	BB	1809	A	N1-C6-N6	8.79	123.88	118.60
1	AA	523	A	C5-C6-N6	-8.79	116.67	123.70
1	AA	802	A	C6-N1-C2	-8.79	113.33	118.60
34	BA	34	A	C4-C5-C6	8.79	121.40	117.00
35	BB	10	A	C5-N7-C8	8.79	108.30	103.90
35	BB	262	A	C5-C6-N1	-8.79	113.30	117.70
35	BB	981	A	C5-C6-N6	-8.79	116.67	123.70
35	BB	2899	A	C3'-C2'-C1'	8.79	108.53	101.50
1	AA	599	C	C6-N1-C2	8.79	123.82	120.30
1	AA	757	U	O4'-C1'-N1	8.79	115.23	108.20
35	BB	1815	A	C5-N7-C8	8.79	108.30	103.90
1	AA	931	C	C5-C4-N4	-8.79	114.05	120.20
1	AA	1068	G	C8-N9-C4	8.79	109.92	106.40
35	BB	98	G	N1-C6-O6	8.79	125.17	119.90
35	BB	2693	G	C6-C5-N7	-8.79	125.13	130.40
35	BB	111	A	N1-C6-N6	8.79	123.87	118.60
35	BB	774	G	N7-C8-N9	8.79	117.49	113.10
35	BB	2744	G	C6-C5-N7	-8.79	125.13	130.40
1	AA	47	C	C2-N1-C1'	8.79	128.46	118.80
35	BB	1113	U	C2-N3-C4	-8.79	121.73	127.00
35	BB	1217	U	O4'-C1'-N1	8.79	115.23	108.20
35	BB	963	U	N3-C2-O2	8.78	128.35	122.20
35	BB	2114	A	C8-N9-C4	-8.78	102.29	105.80
35	BB	2494	G	O4'-C1'-N9	8.79	115.23	108.20
35	BB	2799	A	O4'-C1'-N9	8.79	115.23	108.20
1	AA	1242	G	N1-C6-O6	8.78	125.17	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	653	U	C2-N3-C4	8.78	132.27	127.00
35	BB	1895	C	N3-C4-C5	-8.78	118.39	121.90
35	BB	2575	C	C5-C4-N4	-8.78	114.05	120.20
34	BA	111	U	O4'-C1'-N1	8.78	115.22	108.20
35	BB	400	G	N3-C2-N2	8.78	126.05	119.90
35	BB	583	G	C5-C6-N1	8.78	115.89	111.50
35	BB	719	C	O4'-C1'-N1	8.78	115.23	108.20
35	BB	1243	C	C6-N1-C2	-8.78	116.79	120.30
35	BB	1945	G	C5-C6-O6	-8.78	123.33	128.60
39	BF	17	THR	CA-CB-CG2	-8.78	100.10	112.40
1	AA	26	A	N7-C8-N9	-8.78	109.41	113.80
1	AA	1334	G	C6-C5-N7	-8.78	125.13	130.40
35	BB	2128	G	C5-C6-O6	-8.78	123.33	128.60
35	BB	43	G	C5-C6-N1	-8.78	107.11	111.50
35	BB	48	G	O4'-C1'-N9	8.78	115.22	108.20
35	BB	254	G	C5-C6-O6	-8.78	123.33	128.60
35	BB	643	A	N1-C6-N6	8.78	123.87	118.60
35	BB	289	G	C5-C6-O6	-8.78	123.33	128.60
35	BB	1237	A	C5-C6-N6	-8.78	116.68	123.70
35	BB	1473	G	N1-C6-O6	8.78	125.17	119.90
35	BB	2544	G	N3-C2-N2	8.78	126.04	119.90
35	BB	2808	G	O4'-C1'-N9	8.78	115.22	108.20
1	AA	866	C	O4'-C1'-N1	8.78	115.22	108.20
35	BB	1652	A	C8-N9-C4	-8.78	102.29	105.80
35	BB	2006	C	O4'-C1'-N1	8.78	115.22	108.20
35	BB	522	A	N1-C6-N6	8.77	123.86	118.60
35	BB	1620	G	C5-C6-O6	-8.77	123.34	128.60
1	AA	36	C	N3-C4-N4	8.77	124.14	118.00
35	BB	259	G	C5-C6-O6	-8.77	123.34	128.60
35	BB	751	A	C5-C6-N1	-8.77	113.31	117.70
35	BB	1518	C	N3-C4-C5	-8.77	118.39	121.90
35	BB	1624	U	O4'-C1'-N1	8.77	115.22	108.20
35	BB	1947	C	N3-C4-C5	-8.77	118.39	121.90
35	BB	2251	G	O4'-C1'-N9	8.77	115.22	108.20
35	BB	1425	G	C8-N9-C4	-8.77	102.89	106.40
35	BB	2046	G	N1-C2-N3	-8.77	118.64	123.90
35	BB	2058	A	N7-C8-N9	8.77	118.18	113.80
35	BB	661	A	C4-C5-C6	8.77	121.38	117.00
35	BB	1049	C	C6-N1-C2	-8.77	116.79	120.30
35	BB	1138	G	C5-C6-O6	-8.77	123.34	128.60
1	AA	108	G	C6-C5-N7	-8.76	125.14	130.40
1	AA	155	A	N1-C6-N6	8.76	123.86	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	279	A	O4'-C1'-N9	8.76	115.21	108.20
1	AA	1110	A	C6-C5-N7	-8.76	126.17	132.30
34	BA	59	A	N3-C4-C5	-8.76	120.67	126.80
35	BB	19	A	O4'-C1'-N9	8.76	115.21	108.20
35	BB	1904	G	C4-C5-C6	8.76	124.06	118.80
35	BB	2171	A	P-O3'-C3'	8.76	130.22	119.70
1	AA	1419	G	N9-C4-C5	-8.76	101.89	105.40
35	BB	155	A	N7-C8-N9	8.76	118.18	113.80
35	BB	266	G	N1-C6-O6	8.76	125.16	119.90
35	BB	2409	G	N3-C2-N2	8.76	126.03	119.90
35	BB	2860	A	N1-C6-N6	8.76	123.86	118.60
1	AA	754	C	N3-C4-N4	8.76	124.13	118.00
1	AA	771	G	N3-C4-C5	-8.76	124.22	128.60
35	BB	4	U	N3-C4-O4	8.76	125.53	119.40
35	BB	24	G	N3-C4-N9	-8.76	120.74	126.00
35	BB	55	G	C5-N7-C8	8.76	108.68	104.30
35	BB	430	A	C4-C5-C6	8.76	121.38	117.00
35	BB	482	A	C5-C6-N6	-8.76	116.69	123.70
35	BB	1401	G	N1-C6-O6	8.76	125.15	119.90
35	BB	1637	A	C5-C6-N6	-8.76	116.69	123.70
35	BB	1533	C	C6-N1-C2	-8.76	116.80	120.30
35	BB	1884	G	C5-C6-O6	-8.76	123.35	128.60
35	BB	2180	U	O4'-C1'-N1	8.76	115.20	108.20
35	BB	2186	G	N9-C4-C5	-8.76	101.90	105.40
35	BB	2227	A	N1-C2-N3	8.76	133.68	129.30
35	BB	1717	A	C6-C5-N7	-8.76	126.17	132.30
35	BB	1900	A	N1-C2-N3	-8.76	124.92	129.30
35	BB	2305	U	O4'-C1'-N1	8.76	115.20	108.20
1	AA	242	G	P-O3'-C3'	8.75	130.20	119.70
35	BB	1897	G	N9-C4-C5	-8.75	101.90	105.40
1	AA	590	U	N3-C4-O4	8.75	125.53	119.40
1	AA	1509	C	O4'-C1'-N1	8.75	115.20	108.20
35	BB	654	A	C4-C5-C6	8.75	121.38	117.00
35	BB	1304	A	C5-C6-N6	-8.75	116.70	123.70
35	BB	1508	A	C5-C6-N6	-8.75	116.70	123.70
1	AA	983	A	O4'-C1'-N9	8.75	115.20	108.20
35	BB	1802	A	N7-C8-N9	-8.75	109.42	113.80
35	BB	2117	A	O4'-C1'-N9	8.75	115.20	108.20
1	AA	257	G	C3'-C2'-C1'	8.75	108.50	101.50
1	AA	558	G	C4-C5-C6	8.75	124.05	118.80
35	BB	315	G	O4'-C1'-N9	8.75	115.20	108.20
35	BB	1996	C	C6-N1-C2	-8.75	116.80	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1429	A	C5-C6-N1	-8.75	113.33	117.70
35	BB	2173	A	C8-N9-C4	-8.75	102.30	105.80
1	AA	1276	G	C8-N9-C4	-8.75	102.90	106.40
35	BB	2901	C	C5-C4-N4	-8.75	114.08	120.20
1	AA	312	C	N3-C4-N4	8.74	124.12	118.00
1	AA	402	G	C4-C5-N7	-8.74	107.30	110.80
34	BA	98	G	N3-C2-N2	8.74	126.02	119.90
35	BB	551	G	C4-C5-N7	-8.74	107.30	110.80
35	BB	722	A	C5-N7-C8	8.74	108.27	103.90
35	BB	966	G	O4'-C1'-N9	8.74	115.20	108.20
1	AA	885	G	C5-C6-O6	-8.74	123.36	128.60
35	BB	722	A	C4-C5-C6	8.74	121.37	117.00
35	BB	1500	G	N7-C8-N9	8.74	117.47	113.10
35	BB	1725	U	O4'-C1'-N1	8.74	115.19	108.20
35	BB	1904	G	N3-C4-C5	-8.74	124.23	128.60
35	BB	2397	G	N1-C6-O6	8.74	125.14	119.90
35	BB	2426	A	C5-C6-N1	-8.74	113.33	117.70
1	AA	614	C	C6-N1-C2	-8.74	116.80	120.30
35	BB	718	A	C5-C6-N1	-8.74	113.33	117.70
1	AA	390	U	C6-N1-C2	-8.74	115.76	121.00
1	AA	1453	G	C4-C5-C6	8.74	124.04	118.80
35	BB	1014	A	C4-C5-C6	8.74	121.37	117.00
11	AK	55	ARG	NE-CZ-NH2	-8.74	115.93	120.30
35	BB	614	A	O4'-C1'-N9	8.74	115.19	108.20
1	AA	189	A	N7-C8-N9	-8.74	109.43	113.80
35	BB	788	A	O4'-C1'-N9	8.74	115.19	108.20
35	BB	2142	A	N1-C2-N3	8.74	133.67	129.30
1	AA	929	G	N3-C2-N2	8.74	126.02	119.90
1	AA	1079	G	N3-C2-N2	8.74	126.02	119.90
1	AA	1402	C	C5-C6-N1	8.74	125.37	121.00
35	BB	1760	C	C6-N1-C2	-8.74	116.81	120.30
35	BB	2592	G	O4'-C1'-N9	8.74	115.19	108.20
35	BB	2771	C	N3-C4-N4	8.74	124.12	118.00
1	AA	948	C	C2-N3-C4	8.73	124.27	119.90
35	BB	2701	U	C5-C6-N1	8.73	127.07	122.70
1	AA	846	G	C5-C6-O6	-8.73	123.36	128.60
35	BB	266	G	C5-N7-C8	8.73	108.67	104.30
35	BB	1744	A	C5-C6-N6	-8.73	116.71	123.70
1	AA	1398	A	C5-C6-N6	-8.73	116.71	123.70
35	BB	349	U	O4'-C1'-N1	8.73	115.19	108.20
35	BB	2274	A	C6-C5-N7	-8.73	126.19	132.30
1	AA	439	U	N1-C2-N3	-8.73	109.66	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	585	G	C8-N9-C4	-8.73	102.91	106.40
35	BB	892	A	C5-C6-N6	-8.73	116.72	123.70
35	BB	986	C	O4'-C1'-N1	8.73	115.19	108.20
35	BB	1050	A	C4-C5-C6	8.73	121.37	117.00
35	BB	1074	G	C4-C5-C6	8.73	124.04	118.80
1	AA	5	U	O4'-C1'-N1	8.73	115.18	108.20
1	AA	7	A	O4'-C1'-N9	8.73	115.18	108.20
1	AA	63	C	C5-C4-N4	-8.73	114.09	120.20
1	AA	671	G	C8-N9-C4	-8.73	102.91	106.40
1	AA	1305	G	C5-C6-N1	-8.73	107.14	111.50
35	BB	89	A	C5-N7-C8	8.73	108.26	103.90
35	BB	173	A	C8-N9-C4	8.73	109.29	105.80
35	BB	1323	C	N3-C4-C5	-8.73	118.41	121.90
35	BB	1745	A	C4-C5-C6	8.73	121.36	117.00
44	BK	105	ARG	NE-CZ-NH1	8.73	124.66	120.30
35	BB	886	A	C4-C5-C6	8.73	121.36	117.00
35	BB	1705	A	C2-N3-C4	-8.73	106.24	110.60
35	BB	2159	G	C1'-O4'-C4'	8.73	116.88	109.90
35	BB	2683	C	O4'-C1'-N1	8.73	115.18	108.20
1	AA	315	A	C5-C6-N1	-8.72	113.34	117.70
1	AA	460	A	N9-C4-C5	-8.72	102.31	105.80
1	AA	1109	C	N3-C4-C5	-8.72	118.41	121.90
35	BB	2549	G	N1-C2-N3	-8.72	118.67	123.90
35	BB	376	G	P-O5'-C5'	8.72	134.86	120.90
35	BB	608	A	N1-C2-N3	8.72	133.66	129.30
35	BB	766	U	N3-C4-O4	8.72	125.51	119.40
35	BB	1236	G	C5-C6-O6	-8.72	123.37	128.60
35	BB	2188	U	O4'-C1'-N1	8.72	115.18	108.20
35	BB	2682	A	N9-C4-C5	8.72	109.29	105.80
1	AA	413	G	N1-C2-N3	-8.72	118.67	123.90
1	AA	1287	A	C8-N9-C4	-8.72	102.31	105.80
1	AA	510	A	C5-N7-C8	8.72	108.26	103.90
35	BB	161	A	C4-C5-C6	8.72	121.36	117.00
35	BB	950	G	C2-N3-C4	-8.72	107.54	111.90
35	BB	2303	G	C5-C6-O6	-8.72	123.37	128.60
35	BB	2374	C	P-O3'-C3'	-8.72	109.23	119.70
35	BB	215	G	N3-C2-N2	8.72	126.00	119.90
1	AA	621	A	C5-C6-N1	-8.72	113.34	117.70
1	AA	1263	C	C5-C6-N1	8.72	125.36	121.00
1	AA	1278	G	C5-C6-N1	8.72	115.86	111.50
1	AA	1331	G	C5-C6-O6	-8.72	123.37	128.60
35	BB	670	A	C4-C5-C6	8.72	121.36	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	780	G	N3-C2-N2	8.72	126.00	119.90
35	BB	1262	A	C2-N3-C4	-8.72	106.24	110.60
35	BB	1500	G	C2-N3-C4	8.72	116.26	111.90
35	BB	2298	A	C5-N7-C8	8.72	108.26	103.90
35	BB	2531	A	C4'-C3'-C2'	-8.72	93.88	102.60
1	AA	1184	G	C5-C6-O6	-8.72	123.37	128.60
35	BB	558	U	N1-C2-O2	-8.72	116.70	122.80
35	BB	798	G	C5-C6-O6	-8.71	123.37	128.60
1	AA	109	A	C8-N9-C4	-8.71	102.32	105.80
1	AA	847	G	O4'-C1'-N9	8.71	115.17	108.20
35	BB	1092	C	O4'-C1'-N1	8.71	115.17	108.20
1	AA	859	G	N1-C6-O6	8.71	125.13	119.90
1	AA	1042	A	C8-N9-C4	-8.71	102.32	105.80
1	AA	1279	G	N7-C8-N9	8.71	117.46	113.10
35	BB	1155	A	C4-C5-C6	8.71	121.36	117.00
35	BB	747	U	O4'-C1'-N1	8.71	115.17	108.20
35	BB	2215	C	C4-C5-C6	8.71	121.75	117.40
35	BB	311	A	N1-C6-N6	8.71	123.83	118.60
35	BB	404	A	C8-N9-C4	8.71	109.28	105.80
35	BB	821	A	N1-C6-N6	8.71	123.83	118.60
35	BB	1310	G	C4-C5-C6	8.71	124.03	118.80
35	BB	1767	G	C6-N1-C2	8.71	130.32	125.10
35	BB	466	A	C5-C6-N1	-8.71	113.35	117.70
35	BB	1107	G	N1-C2-N3	-8.71	118.68	123.90
35	BB	1871	A	C4-C5-C6	8.71	121.35	117.00
1	AA	502	A	O4'-C1'-N9	8.71	115.16	108.20
35	BB	1204	A	N9-C4-C5	-8.71	102.32	105.80
35	BB	1966	A	C5-C6-N1	-8.71	113.35	117.70
22	AV	52	G	N1-C6-O6	8.70	125.12	119.90
35	BB	332	A	C4-C5-C6	8.70	121.35	117.00
35	BB	1484	U	N3-C2-O2	8.70	128.29	122.20
35	BB	1600	C	O4'-C1'-N1	8.70	115.16	108.20
35	BB	1693	U	N3-C4-C5	-8.70	109.38	114.60
35	BB	1746	A	C8-N9-C4	-8.71	102.32	105.80
35	BB	2073	C	N1-C2-O2	8.70	124.12	118.90
35	BB	2572	A	O4'-C1'-N9	8.71	115.16	108.20
1	AA	549	C	C6-N1-C2	-8.70	116.82	120.30
35	BB	557	C	N3-C4-C5	-8.70	118.42	121.90
1	AA	508	U	N3-C4-C5	-8.70	109.38	114.60
1	AA	771	G	N3-C2-N2	8.70	125.99	119.90
15	AO	79	ARG	NE-CZ-NH1	8.70	124.65	120.30
35	BB	804	A	C5-C6-N6	-8.70	116.74	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2283	C	O4'-C1'-N1	8.70	115.16	108.20
35	BB	549	G	C8-N9-C4	-8.70	102.92	106.40
35	BB	689	A	C4-C5-C6	8.70	121.35	117.00
35	BB	2061	G	C5-C6-O6	-8.70	123.38	128.60
1	AA	621	A	N1-C6-N6	8.70	123.82	118.60
35	BB	219	A	C8-N9-C4	-8.70	102.32	105.80
35	BB	851	C	O4'-C1'-N1	8.70	115.16	108.20
35	BB	1675	C	C4-C5-C6	-8.70	113.05	117.40
35	BB	1706	C	N3-C4-N4	8.70	124.09	118.00
35	BB	1762	A	C4-C5-C6	8.70	121.35	117.00
35	BB	2490	G	C5-C6-O6	-8.70	123.38	128.60
35	BB	2700	A	C6-C5-N7	-8.70	126.21	132.30
1	AA	796	C	C2-N3-C4	8.70	124.25	119.90
1	AA	1235	U	O4'-C1'-N1	8.70	115.16	108.20
34	BA	16	G	O4'-C1'-N9	8.70	115.16	108.20
35	BB	906	U	N3-C4-O4	8.70	125.49	119.40
35	BB	2037	A	C5-C6-N6	-8.70	116.74	123.70
35	BB	287	G	O4'-C1'-N9	8.69	115.16	108.20
35	BB	480	A	O4'-C1'-N9	8.70	115.16	108.20
35	BB	491	G	N1-C2-N3	-8.69	118.68	123.90
1	AA	1245	C	C5-C6-N1	8.69	125.35	121.00
34	BA	28	C	C6-N1-C2	-8.69	116.82	120.30
35	BB	565	C	N3-C4-C5	-8.69	118.42	121.90
1	AA	533	A	C4-C5-C6	8.69	121.35	117.00
1	AA	1279	G	N1-C6-O6	8.69	125.11	119.90
1	AA	781	A	N9-C4-C5	8.69	109.28	105.80
35	BB	1042	G	C4-C5-N7	-8.69	107.33	110.80
35	BB	2382	G	C6-C5-N7	-8.69	125.19	130.40
1	AA	571	U	O4'-C1'-N1	8.69	115.15	108.20
35	BB	324	A	C5-N7-C8	8.69	108.24	103.90
1	AA	1281	C	C2-N1-C1'	8.69	128.35	118.80
35	BB	57	C	C5-C4-N4	-8.69	114.12	120.20
35	BB	887	U	N1-C2-N3	8.69	120.11	114.90
35	BB	1679	A	C5-C6-N6	-8.69	116.75	123.70
35	BB	1378	A	N9-C4-C5	8.69	109.27	105.80
35	BB	1788	C	C5-C6-N1	8.69	125.34	121.00
35	BB	1875	G	C5-N7-C8	-8.69	99.96	104.30
35	BB	2168	G	C5-N7-C8	-8.69	99.96	104.30
35	BB	2615	U	C4'-C3'-C2'	-8.69	93.91	102.60
35	BB	2383	G	C5-C6-N1	-8.69	107.16	111.50
35	BB	2755	C	O4'-C1'-N1	8.69	115.15	108.20
1	AA	85	U	N3-C4-O4	8.68	125.48	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	573	A	C5-N7-C8	8.68	108.24	103.90
1	AA	646	G	C8-N9-C4	-8.68	102.93	106.40
35	BB	159	G	C4-C5-C6	8.68	124.01	118.80
35	BB	307	G	N3-C2-N2	8.68	125.98	119.90
35	BB	1272	A	C5-C6-N6	-8.68	116.75	123.70
35	BB	1398	C	N3-C2-O2	-8.68	115.82	121.90
1	AA	262	A	C5-C6-N1	-8.68	113.36	117.70
10	AJ	89	ARG	NE-CZ-NH2	8.68	124.64	120.30
35	BB	386	G	C6-C5-N7	-8.68	125.19	130.40
35	BB	551	G	N9-C4-C5	8.68	108.87	105.40
35	BB	677	A	C4-C5-C6	8.68	121.34	117.00
35	BB	2594	C	N3-C4-C5	-8.68	118.43	121.90
35	BB	375	G	N1-C2-N3	-8.68	118.69	123.90
35	BB	869	G	N3-C2-N2	8.68	125.97	119.90
35	BB	2283	C	N1-C2-N3	8.68	125.28	119.20
1	AA	277	C	N3-C4-N4	8.68	124.07	118.00
35	BB	14	A	C8-N9-C4	-8.68	102.33	105.80
35	BB	1068	G	N1-C6-O6	8.68	125.11	119.90
35	BB	1149	G	N1-C6-O6	8.68	125.11	119.90
35	BB	1455	G	C5-C6-O6	-8.68	123.39	128.60
35	BB	2055	C	N1-C2-O2	-8.68	113.69	118.90
35	BB	1547	C	N3-C4-N4	8.67	124.07	118.00
35	BB	1631	G	C4-C5-C6	8.67	124.00	118.80
35	BB	2634	A	C5-C6-N1	-8.67	113.36	117.70
36	BC	220	ARG	NE-CZ-NH1	8.67	124.64	120.30
22	AV	12	G	N1-C6-O6	8.67	125.10	119.90
34	BA	45	A	C4-C5-C6	8.67	121.33	117.00
35	BB	259	G	N1-C2-N3	-8.67	118.70	123.90
35	BB	452	G	N3-C2-N2	8.67	125.97	119.90
35	BB	590	A	O4'-C1'-N9	8.67	115.14	108.20
35	BB	794	A	O4'-C1'-N9	8.67	115.14	108.20
35	BB	2078	C	C5-C4-N4	-8.67	114.13	120.20
35	BB	390	U	O4'-C1'-N1	8.67	115.14	108.20
1	AA	936	C	C5-C6-N1	8.67	125.33	121.00
35	BB	688	U	N3-C2-O2	8.67	128.27	122.20
35	BB	902	C	O4'-C1'-N1	8.67	115.13	108.20
35	BB	2524	G	N9-C4-C5	8.67	108.87	105.40
35	BB	2573	C	C6-N1-C2	-8.67	116.83	120.30
35	BB	2600	A	C5-N7-C8	8.67	108.23	103.90
35	BB	2642	G	N7-C8-N9	8.67	117.43	113.10
35	BB	2742	G	C4-C5-C6	8.67	124.00	118.80
1	AA	1349	A	C2-N3-C4	-8.66	106.27	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1487	G	O4'-C1'-N9	8.66	115.13	108.20
35	BB	797	G	O4'-C1'-N9	8.66	115.13	108.20
35	BB	225	C	O4'-C1'-N1	8.66	115.13	108.20
35	BB	292	U	C5-C4-O4	-8.66	120.70	125.90
35	BB	1857	G	C6-C5-N7	-8.66	125.20	130.40
35	BB	2440	C	N3-C4-C5	-8.66	118.43	121.90
35	BB	2814	A	O4'-C1'-N9	8.66	115.13	108.20
1	AA	148	G	C6-C5-N7	-8.66	125.20	130.40
1	AA	328	C	C2-N3-C4	8.66	124.23	119.90
1	AA	752	G	N1-C2-N3	-8.66	118.70	123.90
1	AA	861	G	C5-C6-O6	-8.66	123.40	128.60
1	AA	329	A	N9-C4-C5	-8.66	102.34	105.80
1	AA	421	U	N3-C2-O2	-8.66	116.14	122.20
1	AA	1386	G	N3-C4-C5	-8.66	124.27	128.60
35	BB	1297	C	C5-C4-N4	-8.66	114.14	120.20
35	BB	2082	A	C6-C5-N7	-8.66	126.24	132.30
35	BB	339	U	C4-C5-C6	8.66	124.89	119.70
35	BB	1061	U	C5'-C4'-O4'	8.66	119.49	109.10
35	BB	1303	G	N1-C6-O6	8.66	125.10	119.90
35	BB	2213	U	C5-C4-O4	-8.66	120.70	125.90
35	BB	2362	C	N3-C4-N4	8.66	124.06	118.00
35	BB	2588	G	O4'-C1'-N9	8.66	115.13	108.20
35	BB	2599	G	N3-C2-N2	8.66	125.96	119.90
1	AA	1357	A	C4-C5-C6	8.66	121.33	117.00
35	BB	1580	A	C2-N3-C4	-8.66	106.27	110.60
1	AA	115	G	N1-C6-O6	8.66	125.09	119.90
1	AA	950	U	C5-C6-N1	8.66	127.03	122.70
35	BB	2183	A	C5-C6-N1	-8.66	113.37	117.70
35	BB	527	C	C5-C4-N4	-8.65	114.14	120.20
1	AA	1225	A	C5-C6-N6	-8.65	116.78	123.70
35	BB	155	A	N1-C6-N6	8.65	123.79	118.60
35	BB	891	G	O4'-C1'-N9	8.65	115.12	108.20
35	BB	1048	A	O4'-C1'-N9	8.65	115.12	108.20
35	BB	1154	G	N3-C2-N2	8.65	125.96	119.90
35	BB	1422	G	C5-C6-O6	-8.65	123.41	128.60
35	BB	1877	A	C5-C6-N1	-8.65	113.37	117.70
35	BB	2140	G	C5-C6-O6	-8.65	123.41	128.60
35	BB	2659	G	C5-C6-O6	-8.65	123.41	128.60
35	BB	104	A	C2-N3-C4	-8.65	106.27	110.60
35	BB	1816	C	N3-C4-N4	8.65	124.06	118.00
35	BB	2219	U	C6-N1-C2	8.65	126.19	121.00
35	BB	2293	G	N9-C4-C5	-8.65	101.94	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	923	A	C5-N7-C8	8.65	108.22	103.90
1	AA	533	A	C8-N9-C4	-8.65	102.34	105.80
1	AA	790	A	C6-C5-N7	-8.65	126.25	132.30
1	AA	1340	A	N1-C6-N6	8.65	123.79	118.60
1	AA	1020	G	C5-C6-N1	-8.65	107.18	111.50
35	BB	863	A	C5-C6-N6	-8.65	116.78	123.70
35	BB	1309	G	C4-C5-N7	-8.65	107.34	110.80
35	BB	1516	G	N1-C6-O6	8.65	125.09	119.90
35	BB	2439	A	C5-C6-N6	-8.65	116.78	123.70
35	BB	2536	G	N3-C2-N2	8.65	125.95	119.90
1	AA	321	A	C5-C6-N1	-8.64	113.38	117.70
1	AA	561	U	C2-N3-C4	-8.64	121.81	127.00
1	AA	720	C	C6-N1-C2	-8.64	116.84	120.30
35	BB	301	G	N1-C2-N3	-8.64	118.71	123.90
1	AA	60	A	P-O3'-C3'	8.64	130.07	119.70
1	AA	131	A	N1-C6-N6	8.64	123.79	118.60
1	AA	858	G	N1-C6-O6	8.64	125.09	119.90
1	AA	1046	A	C4-C5-C6	8.64	121.32	117.00
1	AA	1132	C	O4'-C1'-N1	8.64	115.11	108.20
1	AA	1349	A	O4'-C1'-N9	8.64	115.12	108.20
1	AA	1433	A	C5-C6-N6	-8.64	116.78	123.70
35	BB	1071	G	C8-N9-C4	-8.64	102.94	106.40
35	BB	1109	C	N3-C4-N4	8.64	124.05	118.00
35	BB	1171	G	N1-C6-O6	8.64	125.09	119.90
35	BB	1810	A	C4-C5-N7	-8.64	106.38	110.70
35	BB	1110	G	N7-C8-N9	8.64	117.42	113.10
1	AA	106	C	N3-C4-N4	8.64	124.05	118.00
1	AA	447	G	C6-C5-N7	-8.64	125.22	130.40
35	BB	277	G	C8-N9-C4	8.64	109.86	106.40
35	BB	1177	G	N3-C2-N2	8.64	125.95	119.90
35	BB	1328	A	C5-N7-C8	8.64	108.22	103.90
35	BB	2596	U	C5-C4-O4	-8.64	120.72	125.90
1	AA	142	G	O4'-C1'-N9	8.64	115.11	108.20
1	AA	179	A	C5-C6-N1	-8.64	113.38	117.70
35	BB	759	G	N3-C4-C5	-8.64	124.28	128.60
1	AA	356	A	C5-N7-C8	8.64	108.22	103.90
1	AA	1191	A	N3-C4-C5	-8.64	120.75	126.80
1	AA	1512	U	N3-C4-O4	8.64	125.44	119.40
35	BB	44	A	C2-N3-C4	-8.63	106.28	110.60
35	BB	255	A	O4'-C1'-N9	8.64	115.11	108.20
35	BB	1059	G	N1-C6-O6	8.64	125.08	119.90
35	BB	540	C	N3-C4-N4	8.63	124.04	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	984	A	C6-C5-N7	-8.63	126.26	132.30
35	BB	1164	C	N3-C4-N4	8.63	124.04	118.00
35	BB	1341	G	C4-C5-C6	8.63	123.98	118.80
1	AA	560	A	O4'-C1'-N9	8.63	115.11	108.20
35	BB	941	A	N1-C6-N6	8.63	123.78	118.60
1	AA	154	U	O4'-C1'-N1	8.63	115.10	108.20
35	BB	638	G	C4-C5-C6	8.63	123.98	118.80
35	BB	806	C	O4'-C1'-N1	8.63	115.11	108.20
35	BB	1251	C	N3-C4-N4	8.63	124.04	118.00
35	BB	2061	G	O4'-C1'-N9	8.63	115.11	108.20
35	BB	2301	C	O4'-C1'-N1	8.63	115.10	108.20
35	BB	1213	A	C5-C6-N6	-8.63	116.80	123.70
35	BB	1665	A	C6-N1-C2	-8.63	113.42	118.60
1	AA	1358	U	N3-C4-O4	8.63	125.44	119.40
22	AV	45	G	N1-C6-O6	8.63	125.08	119.90
35	BB	964	C	C5-C4-N4	-8.63	114.16	120.20
35	BB	1270	C	N3-C4-N4	8.63	124.04	118.00
35	BB	2421	G	C4-C5-C6	8.63	123.98	118.80
35	BB	2442	C	O4'-C1'-N1	8.63	115.10	108.20
50	BQ	5	ARG	NE-CZ-NH1	8.63	124.61	120.30
35	BB	1805	A	C5-C6-N6	-8.63	116.80	123.70
1	AA	136	C	N1-C2-O2	-8.62	113.73	118.90
1	AA	1281	C	O4'-C1'-N1	8.62	115.10	108.20
1	AA	1337	G	C5-C6-O6	-8.63	123.42	128.60
35	BB	29	U	O4'-C1'-N1	8.62	115.10	108.20
35	BB	1728	C	C5-C6-N1	-8.63	116.69	121.00
35	BB	70	G	C5-C6-O6	-8.62	123.43	128.60
35	BB	1252	G	C6-C5-N7	-8.62	125.22	130.40
35	BB	1978	A	OP1-P-OP2	-8.62	106.66	119.60
1	AA	38	G	C6-N1-C2	8.62	130.27	125.10
1	AA	1312	G	O4'-C1'-N9	8.62	115.10	108.20
1	AA	1518	A	C5-C6-N1	-8.62	113.39	117.70
35	BB	407	G	C5-C6-O6	-8.62	123.43	128.60
35	BB	532	A	N1-C6-N6	8.62	123.77	118.60
35	BB	785	G	C5-N7-C8	8.62	108.61	104.30
35	BB	1012	U	C3'-C2'-C1'	-8.62	94.60	101.50
35	BB	1659	G	C4'-C3'-C2'	-8.62	93.98	102.60
35	BB	2094	A	C5-C6-N6	-8.62	116.80	123.70
35	BB	2775	G	C5-C6-O6	-8.62	123.43	128.60
35	BB	1138	G	N1-C6-O6	8.62	125.07	119.90
35	BB	1619	G	N3-C2-N2	8.62	125.93	119.90
35	BB	31	C	C5-C6-N1	8.62	125.31	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	316	C	O4'-C1'-N1	8.62	115.10	108.20
1	AA	53	A	C5-C6-N6	-8.62	116.81	123.70
1	AA	1101	A	C5-C6-N6	-8.62	116.81	123.70
1	AA	1476	A	C5-N7-C8	8.62	108.21	103.90
35	BB	365	U	C5-C4-O4	-8.62	120.73	125.90
35	BB	2488	G	C4-C5-C6	8.62	123.97	118.80
1	AA	423	G	N1-C6-O6	8.62	125.07	119.90
1	AA	770	C	N3-C4-C5	-8.61	118.45	121.90
1	AA	1035	A	C5-C6-N6	-8.61	116.81	123.70
35	BB	921	C	N3-C4-N4	8.62	124.03	118.00
35	BB	2310	C	C4-C5-C6	8.61	121.71	117.40
35	BB	2314	A	C4-C5-C6	8.62	121.31	117.00
35	BB	2488	G	N9-C4-C5	8.62	108.85	105.40
35	BB	2425	A	C5-C6-N1	-8.61	113.39	117.70
1	AA	768	A	C2-N3-C4	8.61	114.91	110.60
1	AA	993	G	N9-C4-C5	-8.61	101.95	105.40
30	B5	111	PHE	CB-CG-CD1	8.61	126.83	120.80
34	BA	64	G	O4'-C1'-N9	8.61	115.09	108.20
35	BB	980	A	C4-C5-C6	8.61	121.31	117.00
35	BB	1512	C	C6-N1-C2	-8.61	116.86	120.30
35	BB	1188	U	P-O3'-C3'	-8.61	109.37	119.70
35	BB	2030	A	C5-C6-N1	-8.61	113.39	117.70
35	BB	2110	G	N3-C4-C5	8.61	132.91	128.60
1	AA	579	A	N1-C6-N6	8.61	123.77	118.60
1	AA	1508	A	C8-N9-C4	-8.61	102.36	105.80
35	BB	235	U	C5-C4-O4	-8.61	120.73	125.90
35	BB	592	A	C2-N3-C4	-8.61	106.30	110.60
35	BB	2255	G	C1'-O4'-C4'	-8.61	103.01	109.90
35	BB	2899	A	C6-C5-N7	-8.61	126.28	132.30
1	AA	1517	G	N7-C8-N9	8.61	117.40	113.10
35	BB	415	A	C8-N9-C4	-8.61	102.36	105.80
1	AA	657	U	N1-C2-N3	-8.61	109.74	114.90
1	AA	778	G	C5-N7-C8	-8.61	100.00	104.30
34	BA	13	G	C4-C5-C6	8.61	123.96	118.80
35	BB	216	A	C5-C6-N1	-8.61	113.40	117.70
35	BB	2060	A	C4-C5-C6	8.61	121.30	117.00
35	BB	2729	G	N9-C4-C5	-8.61	101.96	105.40
1	AA	538	G	N3-C2-N2	8.60	125.92	119.90
1	AA	567	G	C5-N7-C8	-8.60	100.00	104.30
1	AA	830	G	C5-C6-O6	-8.60	123.44	128.60
35	BB	460	A	N1-C6-N6	8.60	123.76	118.60
35	BB	551	G	C8-N9-C4	-8.60	102.96	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	998	C	C5-C6-N1	8.60	125.30	121.00
35	BB	1115	G	N1-C6-O6	8.60	125.06	119.90
1	AA	1267	C	C2-N3-C4	8.60	124.20	119.90
35	BB	1448	G	N3-C4-N9	-8.60	120.84	126.00
35	BB	1718	G	N1-C2-N3	-8.60	118.74	123.90
35	BB	1961	C	C5-C6-N1	8.60	125.30	121.00
1	AA	1525	G	N1-C6-O6	8.60	125.06	119.90
35	BB	2343	U	C5-C6-N1	8.60	127.00	122.70
35	BB	206	U	C5-C6-N1	-8.60	118.40	122.70
35	BB	969	G	C6-N1-C2	8.60	130.26	125.10
35	BB	1993	U	N3-C4-C5	8.60	119.76	114.60
35	BB	2829	A	N7-C8-N9	-8.60	109.50	113.80
35	BB	2024	G	C4-C5-C6	8.60	123.96	118.80
35	BB	473	G	C5-C6-O6	-8.60	123.44	128.60
1	AA	774	G	N1-C6-O6	8.60	125.06	119.90
1	AA	779	C	N1-C2-O2	-8.60	113.74	118.90
35	BB	212	G	C8-N9-C4	8.60	109.84	106.40
35	BB	608	A	N1-C6-N6	8.60	123.76	118.60
35	BB	1899	A	C5-C6-N6	-8.60	116.82	123.70
35	BB	1163	G	N9-C4-C5	-8.59	101.96	105.40
1	AA	221	C	N1-C2-O2	-8.59	113.75	118.90
1	AA	1392	G	N3-C2-N2	8.59	125.91	119.90
35	BB	801	G	C6-C5-N7	-8.59	125.25	130.40
35	BB	2057	G	N9-C4-C5	-8.59	101.96	105.40
22	AV	73	A	C5'-C4'-C3'	8.59	129.75	116.00
22	AV	44	G	N1-C6-O6	8.59	125.05	119.90
35	BB	1137	G	N7-C8-N9	8.59	117.39	113.10
35	BB	2326	C	O4'-C1'-N1	8.59	115.07	108.20
35	BB	2387	U	N3-C2-O2	-8.59	116.19	122.20
1	AA	129	A	N1-C6-N6	8.59	123.75	118.60
1	AA	1457	G	C4-C5-N7	8.59	114.23	110.80
1	AA	1509	C	N3-C4-C5	-8.59	118.47	121.90
35	BB	705	A	P-O5'-C5'	8.59	134.63	120.90
35	BB	1189	A	C5-C6-N1	-8.59	113.41	117.70
35	BB	1873	G	N9-C4-C5	8.59	108.83	105.40
35	BB	1975	G	N1-C2-N3	-8.59	118.75	123.90
35	BB	2097	A	C5-C6-N1	-8.59	113.41	117.70
35	BB	2228	G	C8-N9-C4	-8.59	102.97	106.40
35	BB	2327	A	C6-C5-N7	-8.59	126.29	132.30
35	BB	2737	G	O4'-C1'-N9	8.59	115.07	108.20
1	AA	592	G	N1-C2-N2	8.58	123.92	116.20
1	AA	1071	C	C5-C6-N1	8.58	125.29	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	4	C	N3-C4-N4	8.58	124.01	118.00
1	AA	287	U	C2-N3-C4	8.58	132.15	127.00
1	AA	878	A	O4'-C1'-N9	8.58	115.06	108.20
9	AI	94	ARG	NE-CZ-NH1	8.58	124.59	120.30
35	BB	311	A	C5-C6-N1	-8.58	113.41	117.70
35	BB	857	G	C5-C6-O6	-8.58	123.45	128.60
35	BB	189	G	C2-N3-C4	8.58	116.19	111.90
35	BB	1465	G	N3-C4-C5	8.58	132.89	128.60
35	BB	2539	C	N3-C4-C5	-8.58	118.47	121.90
1	AA	731	G	O4'-C1'-N9	8.58	115.06	108.20
1	AA	1042	A	O4'-C1'-N9	8.58	115.06	108.20
1	AA	1473	G	N7-C8-N9	8.58	117.39	113.10
35	BB	901	C	C6-N1-C2	-8.58	116.87	120.30
35	BB	305	C	N3-C4-N4	8.58	124.00	118.00
35	BB	637	A	C4-C5-C6	8.58	121.29	117.00
35	BB	1131	G	C2-N3-C4	8.58	116.19	111.90
35	BB	1469	A	O4'-C1'-N9	8.58	115.06	108.20
35	BB	1715	G	C2-N3-C4	8.58	116.19	111.90
35	BB	2451	A	C5-C6-N1	-8.58	113.41	117.70
1	AA	704	A	N7-C8-N9	-8.58	109.51	113.80
35	BB	2660	A	C5-C6-N1	-8.58	113.41	117.70
35	BB	2683	C	C4-C5-C6	8.58	121.69	117.40
1	AA	258	G	N3-C2-N2	8.58	125.90	119.90
35	BB	452	G	O4'-C1'-N9	8.58	115.06	108.20
35	BB	1013	C	C5-C4-N4	-8.58	114.20	120.20
35	BB	1411	U	O4'-C1'-N1	8.58	115.06	108.20
56	BY	75	ASN	N-CA-CB	8.58	126.04	110.60
1	AA	275	G	N7-C8-N9	-8.57	108.81	113.10
1	AA	470	C	C2-N3-C4	8.57	124.19	119.90
1	AA	619	U	N3-C4-C5	-8.57	109.46	114.60
35	BB	614	A	N1-C6-N6	8.57	123.74	118.60
35	BB	2213	U	N3-C4-O4	8.57	125.40	119.40
35	BB	2740	A	C2-N3-C4	8.57	114.89	110.60
1	AA	1188	A	N1-C6-N6	8.57	123.74	118.60
1	AA	1201	A	P-O3'-C3'	8.57	129.99	119.70
35	BB	993	G	N9-C4-C5	8.57	108.83	105.40
35	BB	1371	G	C6-C5-N7	-8.57	125.26	130.40
35	BB	1473	G	O4'-C1'-N9	8.57	115.06	108.20
1	AA	644	U	C5-C4-O4	-8.57	120.76	125.90
34	BA	26	C	C5-C4-N4	-8.57	114.20	120.20
34	BA	66	A	P-O3'-C3'	8.57	129.99	119.70
35	BB	1329	U	N3-C4-C5	-8.57	109.46	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1780	A	C4-C5-C6	8.57	121.28	117.00
35	BB	2856	A	C8-N9-C4	8.57	109.23	105.80
35	BB	320	A	C8-N9-C4	-8.57	102.37	105.80
35	BB	2251	G	C2-N3-C4	-8.57	107.62	111.90
35	BB	2584	U	C5-C4-O4	-8.57	120.76	125.90
1	AA	1343	G	C4-C5-C6	8.57	123.94	118.80
1	AA	1373	G	O4'-C1'-N9	8.57	115.05	108.20
1	AA	1417	G	N1-C2-N3	-8.57	118.76	123.90
35	BB	25	U	N3-C4-O4	8.57	125.40	119.40
35	BB	84	A	N1-C2-N3	8.57	133.58	129.30
35	BB	1181	U	O4'-C1'-N1	8.57	115.05	108.20
35	BB	2709	G	C5-N7-C8	8.57	108.58	104.30
35	BB	1355	G	C5-C6-O6	-8.57	123.46	128.60
1	AA	767	A	O4'-C1'-N9	8.56	115.05	108.20
35	BB	899	A	O4'-C1'-N9	8.56	115.05	108.20
35	BB	1748	C	O4'-C1'-N1	8.56	115.05	108.20
1	AA	224	U	N3-C2-O2	8.56	128.19	122.20
1	AA	837	U	C5-C6-N1	8.56	126.98	122.70
35	BB	17	G	N1-C6-O6	8.56	125.04	119.90
35	BB	1171	G	C5-C6-O6	-8.56	123.46	128.60
35	BB	1974	C	N3-C4-N4	8.56	123.99	118.00
35	BB	2340	A	P-O3'-C3'	-8.56	109.42	119.70
35	BB	2628	C	N3-C2-O2	8.56	127.89	121.90
1	AA	1385	G	C4-C5-C6	8.56	123.94	118.80
35	BB	279	A	N1-C6-N6	8.56	123.74	118.60
35	BB	1379	U	C2-N3-C4	8.56	132.14	127.00
1	AA	201	G	N3-C4-C5	-8.56	124.32	128.60
1	AA	1398	A	C4-C5-C6	8.56	121.28	117.00
35	BB	2642	G	N9-C4-C5	8.56	108.83	105.40
1	AA	1429	A	C4-C5-C6	8.56	121.28	117.00
22	AV	39	G	O4'-C1'-N9	8.56	115.05	108.20
35	BB	82	U	O4'-C1'-N1	8.56	115.05	108.20
35	BB	294	A	C4-C5-C6	8.56	121.28	117.00
35	BB	325	G	N1-C2-N3	-8.56	118.77	123.90
35	BB	2054	A	O4'-C1'-N9	8.56	115.05	108.20
35	BB	2744	G	N1-C2-N3	-8.56	118.77	123.90
1	AA	217	C	N3-C4-C5	-8.56	118.48	121.90
1	AA	230	G	C8-N9-C4	-8.55	102.98	106.40
1	AA	1012	A	O4'-C1'-N9	8.55	115.04	108.20
43	BJ	119	PHE	CB-CG-CD2	-8.56	114.81	120.80
35	BB	299	A	N1-C6-N6	8.55	123.73	118.60
35	BB	368	A	C4-C5-N7	-8.55	106.42	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	550	C	O4'-C1'-N1	8.55	115.04	108.20
35	BB	1463	C	N3-C4-N4	8.55	123.99	118.00
35	BB	74	A	O4'-C1'-N9	8.55	115.04	108.20
35	BB	2012	G	C5-C6-N1	-8.55	107.22	111.50
1	AA	313	A	C2-N3-C4	-8.55	106.33	110.60
1	AA	698	G	C5-C6-O6	-8.55	123.47	128.60
28	B3	49	ARG	NE-CZ-NH1	8.55	124.58	120.30
35	BB	1601	G	N9-C4-C5	-8.55	101.98	105.40
35	BB	1731	G	C4-C5-C6	8.55	123.93	118.80
35	BB	1981	A	N1-C6-N6	8.55	123.73	118.60
35	BB	1446	C	N3-C4-N4	8.55	123.98	118.00
1	AA	386	C	N3-C4-N4	8.55	123.98	118.00
1	AA	494	G	C3'-C2'-C1'	8.55	108.34	101.50
1	AA	778	G	N3-C2-N2	8.55	125.88	119.90
35	BB	86	G	O4'-C1'-N9	8.55	115.04	108.20
35	BB	400	G	O4'-C1'-N9	8.55	115.04	108.20
35	BB	1370	C	O4'-C1'-N1	8.55	115.04	108.20
35	BB	1863	G	C6-C5-N7	-8.55	125.27	130.40
35	BB	2360	G	O4'-C1'-N9	8.55	115.04	108.20
35	BB	2583	G	C6-N1-C2	8.55	130.23	125.10
1	AA	248	C	O4'-C1'-N1	8.54	115.04	108.20
1	AA	379	C	N1-C2-O2	8.54	124.03	118.90
35	BB	1731	G	C5-C6-N1	-8.55	107.23	111.50
1	AA	571	U	C5-C4-O4	-8.54	120.77	125.90
1	AA	1019	A	C5-C6-N6	-8.54	116.86	123.70
35	BB	230	G	C5-C6-O6	-8.55	123.47	128.60
35	BB	1685	C	C6-N1-C2	-8.55	116.88	120.30
1	AA	1343	G	N3-C4-C5	-8.54	124.33	128.60
1	AA	1421	G	C6-N1-C2	8.54	130.23	125.10
1	AA	1491	G	C5-C6-O6	-8.54	123.47	128.60
1	AA	413	G	C2-N3-C4	8.54	116.17	111.90
35	BB	114	U	O4'-C1'-N1	8.54	115.03	108.20
35	BB	866	A	C5-C6-N1	-8.54	113.43	117.70
35	BB	2215	C	N1-C2-O2	8.54	124.03	118.90
35	BB	2330	G	N3-C4-N9	8.54	131.12	126.00
35	BB	2631	G	O4'-C1'-N9	8.54	115.03	108.20
1	AA	215	C	C4'-C3'-C2'	-8.54	94.06	102.60
1	AA	250	A	O4'-C1'-N9	8.54	115.03	108.20
35	BB	248	G	N1-C6-O6	8.54	125.02	119.90
35	BB	483	A	N1-C6-N6	8.54	123.72	118.60
35	BB	1803	A	N3-C4-C5	-8.54	120.82	126.80
1	AA	716	A	C5-C6-N1	-8.54	113.43	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1299	A	N1-C6-N6	8.54	123.72	118.60
35	BB	385	C	O4'-C1'-N1	8.54	115.03	108.20
35	BB	713	G	N3-C2-N2	8.54	125.88	119.90
35	BB	1055	G	C1'-O4'-C4'	-8.54	103.07	109.90
35	BB	1135	C	N3-C4-N4	8.54	123.98	118.00
35	BB	1983	G	O4'-C1'-N9	8.54	115.03	108.20
35	BB	2284	A	C5-C6-N1	-8.54	113.43	117.70
35	BB	2598	A	N7-C8-N9	-8.54	109.53	113.80
1	AA	435	A	O4'-C1'-N9	8.54	115.03	108.20
1	AA	611	C	C5-C6-N1	8.53	125.27	121.00
1	AA	765	G	C6-C5-N7	-8.53	125.28	130.40
1	AA	902	G	P-O3'-C3'	-8.53	109.46	119.70
34	BA	37	C	O4'-C1'-N1	8.53	115.03	108.20
35	BB	319	G	C2-N3-C4	8.53	116.17	111.90
35	BB	679	C	N3-C4-N4	8.54	123.97	118.00
35	BB	887	U	C3'-C2'-C1'	-8.54	94.67	101.50
35	BB	1429	G	O4'-C1'-N9	8.54	115.03	108.20
35	BB	1609	A	O4'-C1'-N9	8.54	115.03	108.20
35	BB	2436	G	C5-C6-O6	-8.54	123.48	128.60
43	BJ	75	TYR	CG-CD2-CE2	8.54	128.13	121.30
1	AA	338	A	C5-C6-N6	-8.53	116.87	123.70
35	BB	575	A	C2-N3-C4	8.53	114.87	110.60
35	BB	1423	G	N1-C6-O6	8.53	125.02	119.90
35	BB	1653	G	C6-C5-N7	-8.53	125.28	130.40
35	BB	1665	A	N1-C2-N3	8.53	133.57	129.30
35	BB	1918	A	C6-C5-N7	-8.53	126.33	132.30
35	BB	2795	C	N3-C4-N4	8.53	123.97	118.00
1	AA	985	C	N3-C4-N4	8.53	123.97	118.00
1	AA	1002	G	C5-C6-O6	-8.53	123.48	128.60
1	AA	1068	G	N9-C4-C5	-8.53	101.99	105.40
35	BB	1264	A	N1-C6-N6	8.53	123.72	118.60
35	BB	1288	G	N3-C4-N9	8.53	131.12	126.00
35	BB	1612	C	C5-C4-N4	-8.53	114.23	120.20
35	BB	2049	G	O4'-C1'-N9	8.53	115.02	108.20
1	AA	208	U	N3-C2-O2	8.53	128.17	122.20
1	AA	596	A	C4-C5-C6	8.53	121.26	117.00
35	BB	908	C	P-O5'-C5'	8.53	134.54	120.90
35	BB	1586	A	O4'-C1'-N9	8.53	115.02	108.20
22	AV	2	G	C5-C6-O6	-8.53	123.48	128.60
34	BA	75	G	C5-C6-O6	-8.53	123.48	128.60
35	BB	1332	G	N1-C6-O6	8.53	125.02	119.90
35	BB	2193	G	O4'-C4'-C3'	-8.53	95.47	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2654	A	C4-C5-C6	8.53	121.26	117.00
35	BB	1096	A	C3'-C2'-C1'	8.52	108.32	101.50
1	AA	435	A	C2-N3-C4	8.52	114.86	110.60
35	BB	15	G	N1-C6-O6	8.52	125.01	119.90
35	BB	375	G	N1-C6-O6	8.52	125.01	119.90
35	BB	420	C	C6-N1-C2	-8.52	116.89	120.30
35	BB	726	G	N1-C6-O6	8.52	125.01	119.90
1	AA	1303	C	C6-N1-C2	-8.52	116.89	120.30
1	AA	357	G	N3-C4-C5	-8.52	124.34	128.60
1	AA	1074	G	C6-C5-N7	-8.52	125.29	130.40
35	BB	283	G	C4-C5-C6	8.52	123.91	118.80
35	BB	820	A	C5-C6-N6	-8.52	116.89	123.70
35	BB	990	A	C6-C5-N7	-8.52	126.34	132.30
1	AA	321	A	N9-C4-C5	8.52	109.21	105.80
1	AA	448	A	C6-C5-N7	-8.52	126.34	132.30
1	AA	729	A	C5-C6-N6	-8.52	116.89	123.70
1	AA	1002	G	N9-C4-C5	8.52	108.81	105.40
35	BB	319	G	C5-C6-O6	-8.52	123.49	128.60
35	BB	474	G	C4-C5-N7	8.52	114.21	110.80
35	BB	662	G	N7-C8-N9	-8.52	108.84	113.10
44	BK	17	ARG	NE-CZ-NH1	8.51	124.56	120.30
1	AA	443	C	C2-N3-C4	8.51	124.16	119.90
1	AA	1385	G	C5-C6-N1	-8.51	107.24	111.50
35	BB	209	C	C4-C5-C6	8.51	121.66	117.40
35	BB	428	A	C4-C5-C6	8.51	121.26	117.00
35	BB	524	G	N1-C6-O6	8.51	125.01	119.90
35	BB	589	U	C2-N3-C4	8.51	132.11	127.00
1	AA	950	U	C2-N3-C4	-8.51	121.89	127.00
1	AA	1123	U	O4'-C1'-N1	8.51	115.01	108.20
35	BB	402	A	N1-C6-N6	8.51	123.71	118.60
35	BB	992	C	C6-N1-C2	-8.51	116.90	120.30
35	BB	2610	C	N1-C2-N3	-8.51	113.24	119.20
35	BB	1146	C	N3-C4-N4	8.51	123.96	118.00
35	BB	1899	A	C4-C5-N7	-8.51	106.44	110.70
35	BB	2019	A	C5-C6-N6	-8.51	116.89	123.70
35	BB	2512	C	C4-C5-C6	8.51	121.66	117.40
35	BB	2182	U	C5'-C4'-O4'	8.51	119.31	109.10
1	AA	1392	G	N1-C6-O6	8.51	125.00	119.90
35	BB	815	C	N3-C4-N4	8.51	123.96	118.00
1	AA	482	A	N3-C4-C5	-8.51	120.85	126.80
1	AA	1000	A	N1-C6-N6	8.51	123.70	118.60
1	AA	1533	C	C2-N1-C1'	8.51	128.16	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1047	G	N1-C2-N3	-8.51	118.80	123.90
35	BB	452	G	C8-N9-C4	-8.51	103.00	106.40
35	BB	916	G	N1-C6-O6	8.51	125.00	119.90
35	BB	1062	G	O4'-C1'-N9	8.51	115.00	108.20
35	BB	2842	G	N3-C2-N2	8.51	125.86	119.90
35	BB	1204	A	N1-C6-N6	8.51	123.70	118.60
34	BA	85	G	C6-C5-N7	-8.50	125.30	130.40
35	BB	272	A	C5-C6-N6	-8.50	116.90	123.70
35	BB	543	G	N3-C2-N2	8.50	125.85	119.90
35	BB	810	U	O4'-C1'-N1	8.50	115.00	108.20
35	BB	1436	G	O4'-C1'-N9	8.50	115.00	108.20
35	BB	1882	U	O4'-C1'-N1	8.50	115.00	108.20
35	BB	2016	U	C6-N1-C2	-8.50	115.90	121.00
35	BB	2140	G	C2-N3-C4	8.50	116.15	111.90
1	AA	210	C	N3-C4-N4	8.50	123.95	118.00
1	AA	1297	G	O4'-C1'-N9	8.50	115.00	108.20
1	AA	693	G	C2-N3-C4	-8.50	107.65	111.90
1	AA	1259	C	N3-C4-N4	8.50	123.95	118.00
1	AA	1264	U	O4'-C1'-N1	8.50	115.00	108.20
35	BB	2452	C	C5-C6-N1	-8.50	116.75	121.00
35	BB	2588	G	N7-C8-N9	-8.50	108.85	113.10
1	AA	1405	G	C8-N9-C4	-8.50	103.00	106.40
1	AA	1055	A	C2-N3-C4	-8.50	106.35	110.60
1	AA	1266	G	N9-C4-C5	8.50	108.80	105.40
35	BB	40	U	O4'-C1'-N1	8.50	115.00	108.20
35	BB	58	G	C6-C5-N7	-8.50	125.30	130.40
35	BB	348	A	O4'-C1'-N9	8.50	115.00	108.20
35	BB	163	C	C6-N1-C1'	-8.50	110.61	120.80
35	BB	1684	G	C8-N9-C1'	8.50	138.04	127.00
35	BB	2485	G	O5'-P-OP2	-8.50	98.05	105.70
35	BB	2727	A	N1-C6-N6	8.50	123.70	118.60
1	AA	220	G	N1-C6-O6	8.49	125.00	119.90
35	BB	1800	C	C4-C5-C6	8.49	121.65	117.40
35	BB	1817	G	N1-C6-O6	8.49	125.00	119.90
1	AA	143	A	C5-C6-N1	-8.49	113.45	117.70
35	BB	2378	A	N3-C4-C5	-8.49	120.85	126.80
35	BB	435	C	O4'-C1'-N1	8.49	114.99	108.20
35	BB	650	C	C5-C4-N4	-8.49	114.25	120.20
35	BB	1016	G	N1-C6-O6	8.49	125.00	119.90
35	BB	1953	A	C6-N1-C2	8.49	123.69	118.60
35	BB	2624	G	N3-C2-N2	8.49	125.84	119.90
1	AA	186	C	O4'-C1'-N1	8.49	114.99	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	399	G	C5-C6-O6	-8.49	123.51	128.60
1	AA	615	G	N1-C2-N3	-8.49	118.81	123.90
35	BB	2297	A	N1-C6-N6	8.49	123.69	118.60
35	BB	2435	A	C4-C5-C6	8.49	121.25	117.00
1	AA	897	C	N3-C4-N4	8.49	123.94	118.00
35	BB	1758	U	C2-N1-C1'	8.49	127.89	117.70
35	BB	2662	A	N1-C6-N6	8.49	123.69	118.60
1	AA	513	C	O4'-C1'-N1	8.49	114.99	108.20
35	BB	366	C	C4-C5-C6	8.49	121.64	117.40
35	BB	482	A	C4-C5-C6	8.49	121.24	117.00
35	BB	1619	G	C6-C5-N7	-8.49	125.31	130.40
1	AA	847	G	N1-C6-O6	8.49	124.99	119.90
35	BB	671	C	C4-C5-C6	-8.49	113.16	117.40
35	BB	2129	C	C2-N1-C1'	8.49	128.14	118.80
35	BB	2879	A	C5-N7-C8	8.49	108.14	103.90
1	AA	64	G	N1-C6-O6	8.48	124.99	119.90
1	AA	186	C	N3-C4-N4	8.48	123.94	118.00
1	AA	776	G	O4'-C1'-N9	8.48	114.99	108.20
1	AA	1180	A	C5-C6-N6	-8.48	116.91	123.70
1	AA	1331	G	N3-C2-N2	8.48	125.84	119.90
35	BB	642	U	N3-C2-O2	8.48	128.14	122.20
35	BB	1986	C	N3-C4-N4	8.48	123.94	118.00
1	AA	985	C	N3-C4-C5	-8.48	118.51	121.90
1	AA	1422	G	N3-C2-N2	8.48	125.84	119.90
35	BB	280	U	N3-C2-O2	8.48	128.14	122.20
35	BB	1839	G	C2-N3-C4	-8.48	107.66	111.90
35	BB	1004	U	C5-C4-O4	-8.48	120.81	125.90
35	BB	2041	U	N3-C2-O2	8.48	128.14	122.20
35	BB	2846	G	C8-N9-C4	8.48	109.79	106.40
1	AA	1302	C	C6-N1-C2	-8.48	116.91	120.30
35	BB	960	A	C8-N9-C4	-8.48	102.41	105.80
35	BB	1531	C	C2-N1-C1'	8.48	128.13	118.80
1	AA	1268	G	O4'-C1'-N9	8.48	114.98	108.20
35	BB	327	G	C4-C5-N7	-8.48	107.41	110.80
35	BB	1465	G	N3-C4-N9	-8.48	120.91	126.00
35	BB	1925	C	C5-C4-N4	-8.48	114.27	120.20
1	AA	654	G	O4'-C1'-N9	8.47	114.98	108.20
1	AA	824	G	N1-C2-N3	-8.47	118.81	123.90
35	BB	1265	A	N1-C6-N6	8.47	123.69	118.60
1	AA	431	A	C5-C6-N6	-8.47	116.92	123.70
35	BB	876	C	N1-C2-O2	-8.47	113.82	118.90
35	BB	1902	C	C4-C5-C6	-8.47	113.16	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	103	U	C5-C6-N1	8.47	126.94	122.70
1	AA	617	G	N3-C4-C5	8.47	132.84	128.60
35	BB	168	G	C5-C6-N1	-8.47	107.26	111.50
35	BB	279	A	C8-N9-C4	-8.47	102.41	105.80
35	BB	391	A	C5-N7-C8	8.47	108.14	103.90
1	AA	243	A	C5-C6-N6	-8.47	116.92	123.70
1	AA	328	C	O4'-C1'-N1	8.47	114.98	108.20
1	AA	707	U	O4'-C1'-N1	8.47	114.98	108.20
35	BB	2342	C	O4'-C1'-N1	8.47	114.98	108.20
35	BB	2409	G	C5-N7-C8	-8.47	100.06	104.30
35	BB	2505	G	C5-N7-C8	8.47	108.53	104.30
1	AA	145	G	N3-C2-N2	8.47	125.83	119.90
1	AA	694	A	C5-C6-N1	-8.47	113.47	117.70
1	AA	1039	G	N3-C4-C5	-8.47	124.37	128.60
1	AA	1241	G	P-O5'-C5'	8.47	134.45	120.90
35	BB	24	G	N3-C4-C5	8.47	132.83	128.60
35	BB	330	A	N9-C4-C5	-8.47	102.41	105.80
35	BB	689	A	C2-N3-C4	-8.47	106.37	110.60
35	BB	1044	C	O4'-C1'-N1	8.47	114.97	108.20
35	BB	1047	G	P-O3'-C3'	8.47	129.86	119.70
35	BB	1178	C	C5-C4-N4	-8.47	114.27	120.20
1	AA	620	C	O4'-C1'-N1	8.47	114.97	108.20
1	AA	1237	C	P-O3'-C3'	8.47	129.86	119.70
35	BB	356	G	O4'-C1'-N9	8.47	114.97	108.20
35	BB	2439	A	C5-N7-C8	-8.47	99.67	103.90
35	BB	2742	G	C5-C6-O6	-8.47	123.52	128.60
1	AA	224	U	C5-C4-O4	-8.46	120.82	125.90
1	AA	992	U	N3-C4-O4	8.46	125.33	119.40
1	AA	1149	C	N3-C4-N4	8.46	123.93	118.00
35	BB	2523	G	C8-N9-C4	-8.47	103.01	106.40
1	AA	1317	C	O4'-C1'-N1	8.46	114.97	108.20
35	BB	1383	A	C4-C5-N7	-8.46	106.47	110.70
35	BB	1589	U	O4'-C1'-N1	8.46	114.97	108.20
37	BD	184	ARG	NE-CZ-NH1	-8.46	116.07	120.30
1	AA	393	A	C5-C6-N6	-8.46	116.93	123.70
1	AA	574	A	C5-C6-N1	-8.46	113.47	117.70
35	BB	22	C	C2-N3-C4	8.46	124.13	119.90
35	BB	579	G	C4-C5-C6	8.46	123.88	118.80
35	BB	663	G	N1-C2-N3	-8.46	118.82	123.90
35	BB	770	G	N1-C6-O6	8.46	124.98	119.90
35	BB	1017	G	N1-C6-O6	8.46	124.98	119.90
35	BB	1079	C	C5'-C4'-C3'	-8.46	102.46	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1172	C	N3-C4-C5	-8.46	118.52	121.90
35	BB	1938	A	P-O3'-C3'	8.46	129.85	119.70
1	AA	1133	G	N1-C2-N3	-8.46	118.82	123.90
35	BB	443	A	C5-C6-N1	-8.46	113.47	117.70
35	BB	845	A	N1-C6-N6	8.46	123.68	118.60
35	BB	1628	G	N1-C2-N3	-8.46	118.82	123.90
35	BB	2572	A	P-O3'-C3'	8.46	129.85	119.70
35	BB	2583	G	N3-C4-C5	8.46	132.83	128.60
35	BB	2686	G	N3-C2-N2	8.46	125.82	119.90
35	BB	278	A	C6-N1-C2	8.46	123.67	118.60
1	AA	20	U	O4'-C1'-N1	8.46	114.97	108.20
1	AA	381	C	O4'-C1'-N1	8.46	114.97	108.20
34	BA	51	G	O4'-C1'-N9	8.46	114.97	108.20
35	BB	716	A	N1-C6-N6	8.46	123.67	118.60
35	BB	1990	C	C6-N1-C2	8.46	123.68	120.30
35	BB	2292	U	C4-C5-C6	8.46	124.78	119.70
1	AA	226	G	N3-C2-N2	8.46	125.82	119.90
35	BB	2574	G	C5-C6-O6	-8.46	123.53	128.60
35	BB	2576	G	C5-C6-O6	-8.46	123.53	128.60
35	BB	2667	C	N3-C4-C5	-8.46	118.52	121.90
35	BB	2155	U	N1-C2-O2	-8.45	116.88	122.80
1	AA	39	G	N7-C8-N9	-8.45	108.87	113.10
1	AA	236	A	C4-C5-C6	8.45	121.23	117.00
35	BB	554	U	O4'-C1'-N1	8.45	114.96	108.20
35	BB	927	A	C6-C5-N7	-8.45	126.38	132.30
35	BB	2779	U	O4'-C1'-N1	8.45	114.96	108.20
35	BB	1889	A	C5-C6-N1	-8.45	113.47	117.70
35	BB	2743	U	C5-C6-N1	8.45	126.92	122.70
56	BY	40	ARG	NE-CZ-NH2	-8.45	116.07	120.30
1	AA	272	C	N3-C4-C5	-8.45	118.52	121.90
1	AA	1361	G	C1'-O4'-C4'	-8.45	103.14	109.90
35	BB	73	A	C5-C6-N6	-8.45	116.94	123.70
1	AA	1423	G	O4'-C1'-N9	8.45	114.96	108.20
35	BB	304	U	O4'-C1'-N1	8.45	114.96	108.20
35	BB	939	G	N1-C2-N3	-8.45	118.83	123.90
35	BB	1573	G	N3-C2-N2	8.45	125.81	119.90
35	BB	2313	C	N1-C2-O2	-8.45	113.83	118.90
1	AA	175	C	C6-N1-C2	-8.45	116.92	120.30
1	AA	875	U	C2-N3-C4	-8.45	121.93	127.00
37	BD	179	ARG	NE-CZ-NH2	-8.45	116.08	120.30
1	AA	136	C	N3-C2-O2	8.44	127.81	121.90
35	BB	267	C	N3-C4-C5	-8.45	118.52	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1972	G	C6-C5-N7	-8.45	125.33	130.40
30	B5	121	MET	CG-SD-CE	-8.44	86.69	100.20
1	AA	173	U	O4'-C1'-N1	8.44	114.95	108.20
1	AA	597	G	C2-N3-C4	-8.44	107.68	111.90
35	BB	250	G	C4-C5-C6	8.44	123.86	118.80
35	BB	540	C	O4'-C1'-N1	8.44	114.95	108.20
35	BB	917	A	C4-C5-C6	8.44	121.22	117.00
35	BB	1128	G	C5-N7-C8	8.44	108.52	104.30
35	BB	1540	G	N1-C6-O6	8.44	124.97	119.90
35	BB	1796	U	C5-C6-N1	8.44	126.92	122.70
35	BB	1826	G	N3-C2-N2	8.44	125.81	119.90
35	BB	2382	G	C5-C6-O6	-8.44	123.53	128.60
35	BB	2497	A	P-O3'-C3'	8.44	129.83	119.70
35	BB	2591	C	O4'-C1'-N1	8.44	114.95	108.20
35	BB	2632	A	C4-C5-C6	8.44	121.22	117.00
1	AA	397	A	N1-C6-N6	8.44	123.66	118.60
1	AA	1022	A	C4-C5-C6	8.44	121.22	117.00
35	BB	53	A	C5-N7-C8	8.44	108.12	103.90
35	BB	147	C	C4-C5-C6	8.44	121.62	117.40
35	BB	1482	G	C5-N7-C8	8.44	108.52	104.30
35	BB	2618	G	C6-C5-N7	-8.44	125.34	130.40
35	BB	2810	A	C4-C5-C6	8.44	121.22	117.00
35	BB	578	G	C5-C6-N1	-8.44	107.28	111.50
35	BB	589	U	N3-C4-O4	8.44	125.31	119.40
35	BB	2061	G	C4-C5-N7	-8.44	107.42	110.80
1	AA	93	U	N3-C4-O4	8.44	125.30	119.40
1	AA	693	G	C5-C6-N1	-8.44	107.28	111.50
1	AA	963	G	O4'-C1'-N9	8.44	114.95	108.20
35	BB	141	G	N3-C2-N2	8.44	125.81	119.90
35	BB	939	G	C5-C6-O6	-8.44	123.54	128.60
35	BB	985	C	N3-C4-N4	8.44	123.91	118.00
35	BB	1719	G	C5-C6-O6	-8.44	123.54	128.60
46	BM	91	TYR	CB-CG-CD2	-8.44	115.94	121.00
1	AA	710	G	C4-C5-C6	8.43	123.86	118.80
7	AG	19	SER	N-CA-CB	8.43	123.15	110.50
28	B3	49	ARG	NE-CZ-NH2	-8.43	116.08	120.30
29	B4	5	ARG	N-CA-CB	8.43	125.78	110.60
34	BA	73	A	N1-C6-N6	8.43	123.66	118.60
35	BB	799	G	C4-C5-N7	8.43	114.17	110.80
35	BB	881	G	O4'-C1'-N9	8.43	114.95	108.20
35	BB	1186	G	O4'-C1'-N9	8.43	114.95	108.20
35	BB	2018	G	C4-C5-N7	-8.43	107.43	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2497	A	C5-C6-N6	-8.43	116.95	123.70
1	AA	589	U	N1-C2-N3	8.43	119.96	114.90
1	AA	1076	U	N3-C4-O4	8.43	125.30	119.40
35	BB	1740	G	O4'-C1'-N9	8.43	114.94	108.20
35	BB	2368	C	C5-C6-N1	8.43	125.22	121.00
1	AA	50	A	C6-C5-N7	-8.43	126.40	132.30
1	AA	1013	G	C5-C6-O6	-8.43	123.54	128.60
1	AA	1505	G	N3-C2-N2	8.43	125.80	119.90
35	BB	129	C	N3-C4-N4	8.43	123.90	118.00
35	BB	278	A	N1-C6-N6	8.43	123.66	118.60
35	BB	1597	A	C4-C5-C6	8.43	121.22	117.00
35	BB	2542	A	C5-N7-C8	8.43	108.11	103.90
1	AA	462	G	N1-C6-O6	8.43	124.96	119.90
1	AA	567	G	N3-C2-N2	8.43	125.80	119.90
1	AA	1468	A	O4'-C1'-N9	8.43	114.94	108.20
22	AV	18	G	N1-C6-O6	8.43	124.96	119.90
35	BB	445	C	O4'-C1'-N1	8.43	114.94	108.20
35	BB	690	G	N1-C6-O6	8.43	124.96	119.90
35	BB	1549	A	C4-C5-C6	8.43	121.21	117.00
35	BB	2232	C	N3-C4-C5	8.43	125.27	121.90
1	AA	19	A	C5-C6-N6	-8.42	116.96	123.70
1	AA	235	C	N3-C4-C5	-8.42	118.53	121.90
1	AA	79	G	N3-C4-C5	-8.42	124.39	128.60
35	BB	66	C	C2-N3-C4	8.42	124.11	119.90
35	BB	725	G	C6-C5-N7	-8.42	125.35	130.40
35	BB	2027	G	N3-C2-N2	8.42	125.80	119.90
35	BB	543	G	C6-N1-C2	8.42	130.15	125.10
35	BB	1346	G	N1-C6-O6	8.42	124.95	119.90
35	BB	1695	G	C6-C5-N7	-8.42	125.35	130.40
35	BB	2361	G	C4-C5-N7	-8.42	107.43	110.80
1	AA	420	U	N3-C4-C5	-8.42	109.55	114.60
1	AA	1039	G	C6-N1-C2	-8.42	120.05	125.10
34	BA	87	U	C5-C4-O4	-8.42	120.85	125.90
35	BB	2768	U	C2-N3-C4	-8.42	121.95	127.00
1	AA	336	A	N1-C6-N6	8.42	123.65	118.60
1	AA	379	C	N3-C2-O2	-8.42	116.01	121.90
35	BB	1711	A	O4'-C1'-N9	8.42	114.93	108.20
1	AA	1069	C	N3-C4-N4	8.42	123.89	118.00
1	AA	1365	G	C6-C5-N7	-8.42	125.35	130.40
34	BA	36	C	C4-C5-C6	8.42	121.61	117.40
35	BB	125	A	C4-C5-C6	8.42	121.21	117.00
35	BB	1240	U	C1'-O4'-C4'	8.42	116.63	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2872	A	C4-C5-N7	-8.42	106.49	110.70
1	AA	327	A	C4-C5-C6	8.41	121.21	117.00
34	BA	88	C	C4-C5-C6	8.41	121.61	117.40
35	BB	310	A	C6-N1-C2	8.41	123.65	118.60
35	BB	1873	G	N1-C6-O6	8.41	124.95	119.90
35	BB	925	A	O4'-C1'-N9	8.41	114.93	108.20
1	AA	593	U	C5-C4-O4	-8.41	120.85	125.90
1	AA	745	G	C8-N9-C1'	8.41	137.93	127.00
1	AA	1395	C	N1-C2-N3	-8.41	113.31	119.20
5	AE	44	ARG	NE-CZ-NH2	8.41	124.50	120.30
35	BB	582	A	C4-C5-C6	8.41	121.20	117.00
35	BB	837	C	N3-C4-C5	-8.41	118.54	121.90
35	BB	1565	C	N3-C4-C5	-8.41	118.54	121.90
38	BE	184	ASP	CB-CG-OD1	-8.41	110.73	118.30
35	BB	6	A	O4'-C1'-N9	8.41	114.93	108.20
35	BB	746	U	O4'-C1'-N1	8.41	114.93	108.20
1	AA	432	A	C5-C6-N6	-8.41	116.97	123.70
1	AA	925	G	O4'-C1'-N9	8.41	114.92	108.20
35	BB	466	A	C4-C5-C6	8.41	121.20	117.00
35	BB	1951	U	C6-N1-C2	8.41	126.05	121.00
35	BB	2485	G	C6-C5-N7	-8.41	125.36	130.40
35	BB	1384	A	C5-C6-N6	-8.41	116.97	123.70
35	BB	2607	G	O4'-C1'-N9	8.41	114.92	108.20
1	AA	450	G	C5-C6-N1	-8.40	107.30	111.50
35	BB	1878	G	C8-N9-C4	-8.40	103.04	106.40
35	BB	2577	A	C5-C6-N1	-8.40	113.50	117.70
35	BB	274	C	N3-C4-C5	-8.40	118.54	121.90
35	BB	734	A	C5-C6-N6	-8.40	116.98	123.70
35	BB	2706	A	C5-C6-N1	-8.40	113.50	117.70
35	BB	2900	A	C4-C5-N7	8.40	114.90	110.70
1	AA	994	A	C5-C6-N6	-8.40	116.98	123.70
1	AA	1145	A	N1-C6-N6	8.40	123.64	118.60
35	BB	489	G	C5-C6-O6	-8.40	123.56	128.60
35	BB	1924	C	C2-N3-C4	8.40	124.10	119.90
35	BB	2268	A	C8-N9-C4	-8.40	102.44	105.80
1	AA	842	U	N1-C2-O2	8.40	128.68	122.80
1	AA	1433	A	N1-C2-N3	8.40	133.50	129.30
35	BB	974	G	C4-C5-C6	8.40	123.84	118.80
35	BB	1745	A	P-O3'-C3'	-8.40	109.62	119.70
35	BB	2040	G	N1-C6-O6	8.40	124.94	119.90
35	BB	2272	U	O4'-C1'-N1	8.40	114.92	108.20
45	BL	60	ARG	NE-CZ-NH2	-8.40	116.10	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	623	C	O4'-C1'-N1	8.40	114.92	108.20
35	BB	966	G	N1-C2-N3	-8.40	118.86	123.90
35	BB	1464	G	N1-C6-O6	8.40	124.94	119.90
1	AA	516	U	N3-C4-O4	-8.39	113.52	119.40
1	AA	926	G	C2-N3-C4	-8.39	107.70	111.90
1	AA	1213	A	N7-C8-N9	-8.39	109.60	113.80
1	AA	1298	U	N3-C4-O4	8.39	125.28	119.40
35	BB	2013	A	N3-C4-C5	8.39	132.68	126.80
35	BB	2014	A	C5-C6-N1	-8.39	113.50	117.70
35	BB	662	G	C8-N9-C4	8.39	109.76	106.40
35	BB	2149	U	C5-C6-N1	8.39	126.90	122.70
35	BB	2463	C	C6-N1-C2	-8.39	116.94	120.30
35	BB	2549	G	N1-C6-O6	8.39	124.94	119.90
35	BB	2814	A	C5-C6-N1	-8.39	113.50	117.70
1	AA	652	U	C5-C4-O4	-8.39	120.86	125.90
1	AA	1361	G	O4'-C1'-N9	8.39	114.91	108.20
35	BB	327	G	N1-C2-N3	-8.39	118.86	123.90
35	BB	1318	U	O4'-C1'-N1	8.39	114.91	108.20
35	BB	2320	U	C5-C4-O4	-8.39	120.86	125.90
45	BL	21	ARG	NE-CZ-NH2	8.39	124.50	120.30
1	AA	63	C	O4'-C1'-N1	8.39	114.91	108.20
1	AA	74	A	C5-N7-C8	8.39	108.09	103.90
35	BB	1641	A	C5-C6-N6	-8.39	116.99	123.70
1	AA	124	C	C2-N3-C4	8.39	124.09	119.90
35	BB	2894	G	N1-C6-O6	8.39	124.93	119.90
1	AA	290	C	O4'-C1'-N1	8.39	114.91	108.20
1	AA	1224	U	O4'-C1'-N1	8.39	114.91	108.20
22	AV	19	G	N1-C6-O6	8.39	124.93	119.90
35	BB	457	A	C5-C6-N6	-8.39	116.99	123.70
35	BB	1699	G	N3-C2-N2	8.39	125.77	119.90
35	BB	2096	C	C5-C4-N4	-8.39	114.33	120.20
35	BB	2777	G	C5-C6-O6	-8.39	123.57	128.60
35	BB	2857	G	N3-C2-N2	8.39	125.77	119.90
1	AA	773	G	N3-C2-N2	8.38	125.77	119.90
51	BR	5	PHE	CB-CG-CD1	8.39	126.67	120.80
1	AA	781	A	C5-C6-N1	-8.38	113.51	117.70
2	AB	161	PHE	CB-CG-CD2	8.38	126.67	120.80
34	BA	83	G	C5-C6-N1	8.38	115.69	111.50
35	BB	781	A	C8-N9-C4	-8.38	102.45	105.80
35	BB	785	G	N7-C8-N9	-8.38	108.91	113.10
35	BB	1934	C	C6-N1-C2	-8.38	116.95	120.30
35	BB	2857	G	C5-C6-N1	-8.38	107.31	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	777	A	C5-C6-N6	-8.38	116.99	123.70
35	BB	332	A	C8-N9-C4	-8.38	102.45	105.80
1	AA	95	C	C6-N1-C2	-8.38	116.95	120.30
1	AA	138	G	C6-C5-N7	-8.38	125.37	130.40
35	BB	835	C	C2-N3-C4	8.38	124.09	119.90
35	BB	888	C	O4'-C4'-C3'	-8.38	95.62	104.00
35	BB	1579	A	C5-C6-N1	-8.38	113.51	117.70
35	BB	1269	A	C5-C6-N6	-8.38	117.00	123.70
35	BB	1877	A	N1-C2-N3	8.38	133.49	129.30
35	BB	1879	C	N3-C4-N4	8.38	123.87	118.00
35	BB	2569	G	C8-N9-C4	-8.38	103.05	106.40
35	BB	2775	G	O4'-C1'-N9	8.38	114.91	108.20
1	AA	100	G	C5-C6-O6	-8.38	123.57	128.60
1	AA	9	G	C8-N9-C4	8.38	109.75	106.40
1	AA	243	A	C2'-C3'-O3'	8.38	127.93	109.50
1	AA	1070	U	N3-C4-O4	8.38	125.27	119.40
35	BB	1401	G	O4'-C1'-N9	8.38	114.90	108.20
39	BF	19	PHE	CB-CG-CD1	-8.38	114.94	120.80
1	AA	254	G	C6-N1-C2	8.38	130.13	125.10
35	BB	918	A	C4-C5-C6	8.38	121.19	117.00
35	BB	1342	A	C5-C6-N6	-8.38	117.00	123.70
35	BB	2218	G	N1-C2-N3	-8.38	118.87	123.90
1	AA	778	G	C8-N9-C4	-8.38	103.05	106.40
1	AA	1419	G	N7-C8-N9	-8.38	108.91	113.10
1	AA	1531	A	C5-C6-N1	-8.38	113.51	117.70
16	AP	32	PHE	CB-CG-CD1	-8.38	114.94	120.80
35	BB	211	C	N3-C4-C5	-8.38	118.55	121.90
35	BB	634	C	C5-C4-N4	-8.37	114.34	120.20
35	BB	1103	A	C8-N9-C4	-8.37	102.45	105.80
35	BB	1186	G	C5-C6-O6	-8.38	123.58	128.60
1	AA	397	A	O4'-C1'-N9	8.37	114.90	108.20
35	BB	1131	G	N3-C2-N2	8.37	125.76	119.90
35	BB	2028	U	C6-N1-C2	-8.37	115.98	121.00
35	BB	2753	A	C5-C6-N6	-8.37	117.00	123.70
34	BA	92	C	C6-N1-C2	-8.37	116.95	120.30
35	BB	823	C	C4-C5-C6	8.37	121.58	117.40
35	BB	1927	A	C5-C6-N1	-8.37	113.52	117.70
1	AA	228	A	C5-C6-N1	-8.37	113.52	117.70
1	AA	1037	C	P-O3'-C3'	-8.37	109.66	119.70
35	BB	1398	C	N3-C4-N4	8.37	123.86	118.00
35	BB	2087	G	C4-C5-C6	8.37	123.82	118.80
22	AV	34	G	OP1-P-OP2	-8.37	107.05	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1598	A	C4-C5-N7	-8.37	106.52	110.70
35	BB	1911	U	O4'-C1'-N1	8.37	114.89	108.20
1	AA	115	G	C2-N3-C4	8.37	116.08	111.90
1	AA	1016	A	C5-C6-N6	-8.37	117.01	123.70
35	BB	428	A	N1-C2-N3	8.37	133.48	129.30
35	BB	1624	U	N3-C4-C5	-8.37	109.58	114.60
1	AA	303	A	C6-C5-N7	-8.36	126.44	132.30
1	AA	906	A	C4-C5-C6	8.36	121.18	117.00
35	BB	1179	G	C5-C6-O6	-8.36	123.58	128.60
35	BB	2746	U	O4'-C1'-N1	8.36	114.89	108.20
1	AA	915	A	O4'-C1'-N9	8.36	114.89	108.20
1	AA	1281	C	N3-C4-N4	8.36	123.85	118.00
1	AA	1314	C	C5-C4-N4	-8.36	114.35	120.20
35	BB	753	A	C4-C5-N7	-8.36	106.52	110.70
35	BB	1057	A	O4'-C4'-C3'	8.36	112.79	106.10
35	BB	1551	A	N1-C6-N6	8.36	123.62	118.60
35	BB	1653	G	C5-C6-N1	-8.36	107.32	111.50
1	AA	649	A	C5-N7-C8	8.36	108.08	103.90
1	AA	1400	C	C6-N1-C1'	-8.36	110.77	120.80
4	AD	55	ARG	NE-CZ-NH2	-8.36	116.12	120.30
35	BB	422	A	C5-C6-N6	-8.36	117.01	123.70
35	BB	1367	A	N1-C6-N6	8.36	123.62	118.60
35	BB	2813	A	O4'-C1'-N9	8.36	114.89	108.20
35	BB	681	G	C8-N9-C4	-8.36	103.06	106.40
35	BB	1598	A	N7-C8-N9	8.36	117.98	113.80
35	BB	2573	C	C5-C6-N1	8.36	125.18	121.00
1	AA	1391	U	C2-N3-C4	8.36	132.01	127.00
1	AA	1515	G	C6-C5-N7	-8.36	125.39	130.40
35	BB	333	G	N1-C6-O6	8.36	124.91	119.90
35	BB	1365	A	P-O3'-C3'	8.36	129.73	119.70
35	BB	2569	G	N1-C6-O6	8.36	124.91	119.90
35	BB	1908	C	C5-C4-N4	-8.36	114.35	120.20
35	BB	2573	C	C2-N1-C1'	8.36	127.99	118.80
1	AA	169	C	O4'-C1'-N1	8.35	114.88	108.20
1	AA	694	A	N1-C6-N6	8.35	123.61	118.60
1	AA	936	C	O4'-C1'-N1	8.35	114.88	108.20
1	AA	1079	G	C4-C5-C6	8.35	123.81	118.80
35	BB	2848	G	N1-C2-N3	-8.35	118.89	123.90
35	BB	1294	U	N3-C4-O4	-8.35	113.56	119.40
35	BB	1511	G	O4'-C1'-N9	8.35	114.88	108.20
35	BB	1858	A	C5-C6-N1	-8.35	113.53	117.70
35	BB	2309	A	C5-C6-N6	-8.35	117.02	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2403	C	P-O3'-C3'	-8.35	109.68	119.70
1	AA	440	C	O4'-C1'-N1	8.35	114.88	108.20
35	BB	345	A	C4-C5-N7	-8.35	106.53	110.70
1	AA	1083	U	O4'-C1'-N1	8.35	114.88	108.20
1	AA	1462	C	O4'-C1'-N1	8.35	114.88	108.20
35	BB	39	G	N3-C2-N2	8.35	125.74	119.90
35	BB	926	G	C8-N9-C4	-8.35	103.06	106.40
35	BB	1543	G	C4-C5-C6	8.35	123.81	118.80
35	BB	1838	C	N3-C4-C5	-8.35	118.56	121.90
35	BB	2424	C	N3-C4-C5	-8.35	118.56	121.90
35	BB	2479	U	O4'-C1'-N1	8.35	114.88	108.20
35	BB	2850	A	C5-C6-N6	-8.35	117.02	123.70
1	AA	428	G	P-O3'-C3'	8.35	129.72	119.70
1	AA	830	G	N1-C2-N3	-8.35	118.89	123.90
1	AA	1262	C	C5-C4-N4	-8.35	114.36	120.20
1	AA	1404	C	C6-N1-C2	-8.35	116.96	120.30
35	BB	1681	G	O4'-C1'-N9	8.35	114.88	108.20
1	AA	73	C	C5-C6-N1	8.35	125.17	121.00
1	AA	1188	A	N7-C8-N9	-8.35	109.63	113.80
35	BB	1535	A	C8-N9-C4	-8.35	102.46	105.80
35	BB	1573	G	O4'-C1'-N9	8.35	114.88	108.20
35	BB	1964	G	C5-C6-O6	-8.35	123.59	128.60
35	BB	2376	A	N1-C6-N6	8.35	123.61	118.60
35	BB	2379	G	C4-C5-C6	8.35	123.81	118.80
1	AA	351	G	N1-C2-N3	-8.34	118.89	123.90
1	AA	738	C	O4'-C1'-N1	8.34	114.87	108.20
34	BA	96	G	O4'-C1'-N9	8.34	114.87	108.20
35	BB	2497	A	C8-N9-C4	8.34	109.14	105.80
1	AA	253	A	O4'-C1'-N9	8.34	114.87	108.20
1	AA	456	A	O4'-C1'-N9	8.34	114.87	108.20
1	AA	943	U	C4-C5-C6	-8.34	114.70	119.70
2	AB	212	TYR	CB-CG-CD1	8.34	126.00	121.00
35	BB	1663	G	O5'-P-OP2	8.34	120.71	110.70
35	BB	2121	G	O4'-C1'-N9	8.34	114.87	108.20
35	BB	2861	U	C2-N3-C4	-8.34	122.00	127.00
1	AA	66	A	N1-C2-N3	8.34	133.47	129.30
1	AA	874	G	C2-N3-C4	8.34	116.07	111.90
1	AA	1448	C	O4'-C1'-N1	8.34	114.87	108.20
35	BB	2295	C	C5-C6-N1	8.34	125.17	121.00
1	AA	702	A	C4-C5-C6	8.34	121.17	117.00
35	BB	502	A	C5-C6-N6	-8.34	117.03	123.70
35	BB	2399	G	C6-C5-N7	-8.34	125.40	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	894	G	N1-C6-O6	8.33	124.90	119.90
35	BB	39	G	N1-C6-O6	8.33	124.90	119.90
35	BB	1060	U	O4'-C1'-N1	8.33	114.87	108.20
1	AA	110	C	O4'-C1'-N1	8.33	114.87	108.20
1	AA	935	A	N1-C2-N3	8.33	133.47	129.30
35	BB	2318	G	C4-C5-N7	-8.33	107.47	110.80
35	BB	38	A	O4'-C1'-N9	8.33	114.87	108.20
35	BB	1302	A	C8-N9-C4	-8.33	102.47	105.80
35	BB	1649	G	C2-N3-C4	8.33	116.07	111.90
35	BB	1762	A	C5-C6-N1	-8.33	113.53	117.70
35	BB	2855	C	C5-C4-N4	-8.33	114.37	120.20
41	BH	50	ARG	NE-CZ-NH2	-8.33	116.13	120.30
54	BU	80	ASP	CB-CG-OD2	-8.33	110.80	118.30
1	AA	183	C	O4'-C4'-C3'	-8.33	95.67	104.00
1	AA	254	G	O4'-C1'-N9	8.33	114.86	108.20
35	BB	97	C	N3-C4-N4	8.33	123.83	118.00
35	BB	1392	A	N7-C8-N9	-8.33	109.63	113.80
1	AA	306	A	N1-C6-N6	8.33	123.60	118.60
1	AA	711	G	O4'-C1'-N9	8.33	114.86	108.20
34	BA	24	G	N1-C6-O6	8.33	124.90	119.90
35	BB	173	A	C5-C6-N6	-8.33	117.04	123.70
35	BB	2504	U	O4'-C1'-N1	8.33	114.86	108.20
35	BB	2603	G	C5-N7-C8	8.33	108.46	104.30
1	AA	1118	U	O4'-C1'-N1	8.33	114.86	108.20
1	AA	1179	A	N3-C4-C5	-8.33	120.97	126.80
35	BB	1237	A	C5-C6-N1	-8.33	113.54	117.70
1	AA	1500	A	C5-C6-N1	-8.33	113.54	117.70
35	BB	1486	U	C5-C6-N1	8.33	126.86	122.70
35	BB	1633	G	C5-C6-O6	-8.33	123.60	128.60
1	AA	282	A	C5-C6-N6	-8.32	117.04	123.70
1	AA	1004	A	C5-C6-N6	-8.32	117.04	123.70
35	BB	380	G	N1-C6-O6	8.32	124.89	119.90
35	BB	1205	A	O4'-C1'-N9	8.32	114.86	108.20
35	BB	2186	G	C5-C6-O6	-8.32	123.61	128.60
1	AA	160	A	O4'-C1'-N9	8.32	114.86	108.20
35	BB	407	G	N1-C2-N3	-8.32	118.91	123.90
35	BB	662	G	C5-C6-O6	-8.32	123.61	128.60
35	BB	678	C	O4'-C1'-N1	8.32	114.86	108.20
35	BB	1099	G	C5-C6-O6	-8.32	123.61	128.60
35	BB	1115	G	C4-C5-C6	8.32	123.79	118.80
35	BB	1485	U	C2-N3-C4	-8.32	122.01	127.00
35	BB	2370	G	N1-C2-N3	-8.32	118.91	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2534	A	C8-N9-C4	8.32	109.13	105.80
35	BB	2771	C	N3-C4-C5	-8.32	118.57	121.90
1	AA	79	G	C8-N9-C4	-8.32	103.07	106.40
1	AA	391	G	O4'-C1'-N9	8.32	114.86	108.20
1	AA	1375	A	O4'-C1'-N9	8.32	114.86	108.20
34	BA	68	C	N3-C4-C5	-8.32	118.57	121.90
35	BB	2645	G	C5-C6-O6	-8.32	123.61	128.60
1	AA	577	G	N3-C4-C5	-8.32	124.44	128.60
1	AA	840	C	N3-C4-N4	8.32	123.82	118.00
35	BB	2418	A	C5-C6-N1	-8.32	113.54	117.70
35	BB	106	C	N3-C4-C5	-8.32	118.57	121.90
35	BB	253	C	N3-C4-N4	8.32	123.82	118.00
35	BB	346	A	C5-C6-N1	-8.32	113.54	117.70
35	BB	389	G	C2-N3-C4	8.32	116.06	111.90
35	BB	579	G	C6-C5-N7	-8.32	125.41	130.40
35	BB	1432	G	N3-C2-N2	8.32	125.72	119.90
35	BB	1796	U	C2-N3-C4	8.32	131.99	127.00
34	BA	102	G	N3-C2-N2	8.32	125.72	119.90
35	BB	205	G	C4-C5-C6	8.32	123.79	118.80
35	BB	393	C	N3-C4-N4	8.32	123.82	118.00
35	BB	301	G	N3-C4-N9	-8.32	121.01	126.00
35	BB	721	A	N9-C4-C5	8.32	109.13	105.80
35	BB	2488	G	C2-N3-C4	8.32	116.06	111.90
35	BB	2868	A	C4-C5-C6	8.32	121.16	117.00
1	AA	400	C	C4-C5-C6	-8.31	113.24	117.40
1	AA	1021	A	C5-C6-N1	-8.31	113.54	117.70
35	BB	282	A	N9-C4-C5	8.31	109.13	105.80
35	BB	504	A	N1-C6-N6	8.31	123.59	118.60
35	BB	1301	A	N1-C2-N3	8.31	133.46	129.30
35	BB	2172	U	C1'-O4'-C4'	-8.31	103.25	109.90
1	AA	205	A	O4'-C1'-N9	8.31	114.85	108.20
1	AA	1377	A	C4-C5-N7	-8.31	106.54	110.70
35	BB	1305	C	N3-C4-C5	-8.31	118.58	121.90
35	BB	1443	U	O4'-C1'-N1	8.31	114.85	108.20
35	BB	2605	U	O4'-C1'-N1	8.31	114.85	108.20
1	AA	563	A	C5-C6-N1	-8.31	113.55	117.70
1	AA	841	C	C6-N1-C2	8.31	123.62	120.30
5	AE	102	THR	CA-CB-CG2	-8.31	100.77	112.40
22	AV	3	G	N1-C2-N3	-8.31	118.91	123.90
35	BB	1925	C	N3-C4-N4	8.31	123.82	118.00
1	AA	129	A	N7-C8-N9	8.31	117.95	113.80
1	AA	337	G	N1-C2-N3	-8.31	118.92	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	347	G	C3'-C2'-C1'	8.31	108.15	101.50
1	AA	553	A	C6-N1-C2	-8.31	113.61	118.60
1	AA	602	A	C1'-O4'-C4'	-8.31	103.25	109.90
35	BB	855	G	C6-C5-N7	-8.31	125.42	130.40
35	BB	1096	A	O4'-C1'-N9	8.31	114.85	108.20
35	BB	1601	G	C6-C5-N7	-8.31	125.42	130.40
35	BB	2282	G	C5-C6-O6	-8.31	123.62	128.60
35	BB	2429	G	O4'-C1'-N9	-8.31	101.55	108.20
1	AA	347	G	O4'-C1'-N9	8.30	114.84	108.20
1	AA	1463	U	O4'-C1'-N1	8.30	114.84	108.20
35	BB	188	G	C6-C5-N7	8.30	135.38	130.40
35	BB	250	G	C2-N3-C4	-8.30	107.75	111.90
35	BB	368	A	C6-N1-C2	-8.31	113.62	118.60
35	BB	729	G	C6-C5-N7	-8.30	125.42	130.40
35	BB	851	C	C2-N3-C4	8.30	124.05	119.90
35	BB	44	A	C8-N9-C4	8.30	109.12	105.80
35	BB	1289	C	C2-N3-C4	-8.30	115.75	119.90
35	BB	2154	A	C5-C6-N6	-8.30	117.06	123.70
35	BB	2369	A	C4-C5-C6	8.30	121.15	117.00
41	BH	91	PHE	CB-CG-CD1	8.30	126.61	120.80
35	BB	891	G	C5'-C4'-O4'	8.30	119.06	109.10
1	AA	62	U	C6-N1-C2	8.30	125.98	121.00
1	AA	168	G	N3-C2-N2	8.30	125.71	119.90
1	AA	411	A	C4-C5-C6	8.30	121.15	117.00
1	AA	765	G	C5-C6-N1	-8.30	107.35	111.50
1	AA	1157	A	C8-N9-C4	-8.30	102.48	105.80
35	BB	1312	U	P-O3'-C3'	8.30	129.66	119.70
35	BB	2781	A	C5-C6-N6	-8.30	117.06	123.70
1	AA	1435	G	C4-C5-C6	8.30	123.78	118.80
22	AV	56	C	O4'-C1'-N1	8.30	114.84	108.20
34	BA	79	G	C8-N9-C4	-8.30	103.08	106.40
35	BB	789	A	C5-C6-N6	-8.30	117.06	123.70
35	BB	1071	G	C4-C5-C6	8.30	123.78	118.80
35	BB	1415	U	O4'-C1'-N1	8.30	114.84	108.20
35	BB	1528	A	O4'-C1'-N9	8.30	114.84	108.20
35	BB	2027	G	C6-C5-N7	-8.30	125.42	130.40
35	BB	2470	G	N7-C8-N9	-8.30	108.95	113.10
35	BB	2500	U	N3-C4-O4	8.30	125.21	119.40
35	BB	2533	U	C2-N3-C4	-8.30	122.02	127.00
35	BB	2705	A	C8-N9-C4	-8.30	102.48	105.80
1	AA	9	G	O4'-C1'-N9	8.30	114.84	108.20
1	AA	699	C	N3-C4-N4	8.30	123.81	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1282	C	O4'-C1'-N1	8.30	114.84	108.20
19	AS	35	ARG	NE-CZ-NH2	-8.30	116.15	120.30
22	AV	39	G	C6-N1-C2	-8.30	120.12	125.10
35	BB	2738	A	C5-C6-N6	-8.30	117.06	123.70
35	BB	410	G	C8-N9-C4	-8.30	103.08	106.40
35	BB	470	A	N1-C6-N6	8.30	123.58	118.60
35	BB	764	A	C4-C5-N7	-8.30	106.55	110.70
35	BB	1560	G	C8-N9-C4	-8.30	103.08	106.40
35	BB	1803	A	C4-C5-C6	8.30	121.15	117.00
35	BB	2830	C	O4'-C1'-N1	8.30	114.84	108.20
1	AA	274	A	O4'-C1'-N9	8.30	114.84	108.20
1	AA	952	U	O4'-C1'-N1	8.30	114.84	108.20
35	BB	2096	C	N3-C4-N4	8.30	123.81	118.00
1	AA	1026	G	O4'-C1'-N9	8.29	114.83	108.20
35	BB	84	A	C2-N3-C4	-8.29	106.45	110.60
35	BB	405	U	C5-C6-N1	-8.29	118.55	122.70
35	BB	855	G	N3-C4-C5	8.29	132.75	128.60
35	BB	2053	G	P-O3'-C3'	-8.29	109.75	119.70
35	BB	2156	G	N3-C4-C5	8.29	132.75	128.60
35	BB	2760	C	C2-N3-C4	8.29	124.05	119.90
1	AA	625	U	C2-N3-C4	-8.29	122.03	127.00
1	AA	1114	C	N3-C4-C5	-8.29	118.58	121.90
21	AU	18	PHE	CB-CG-CD1	-8.29	115.00	120.80
34	BA	56	G	N3-C4-C5	-8.29	124.45	128.60
35	BB	1181	U	N3-C2-O2	8.29	128.00	122.20
35	BB	1676	A	C6-C5-N7	-8.29	126.50	132.30
35	BB	2510	C	O4'-C1'-N1	8.29	114.83	108.20
25	B0	73	ARG	NE-CZ-NH1	-8.29	116.16	120.30
35	BB	1191	G	C8-N9-C4	-8.29	103.08	106.40
35	BB	1465	G	O4'-C1'-N9	8.29	114.83	108.20
35	BB	2101	A	C4-C5-C6	8.29	121.14	117.00
35	BB	1795	C	C6-N1-C2	-8.29	116.98	120.30
1	AA	336	A	C8-N9-C4	8.29	109.11	105.80
1	AA	945	G	C6-C5-N7	-8.29	125.43	130.40
35	BB	720	U	C4-C5-C6	-8.29	114.73	119.70
35	BB	1117	C	N3-C4-N4	8.29	123.80	118.00
35	BB	1891	G	N9-C4-C5	8.29	108.72	105.40
35	BB	2026	U	C5-C6-N1	8.29	126.84	122.70
1	AA	1122	U	N3-C4-C5	-8.28	109.63	114.60
1	AA	1327	C	O4'-C1'-N1	8.28	114.83	108.20
35	BB	1039	A	C4-C5-C6	8.28	121.14	117.00
35	BB	1064	C	N3-C2-O2	-8.28	116.10	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1901	A	C4-C5-N7	-8.29	106.56	110.70
35	BB	2432	A	C2-N3-C4	-8.28	106.46	110.60
1	AA	134	G	P-O3'-C3'	8.28	129.64	119.70
1	AA	366	A	C5-N7-C8	8.28	108.04	103.90
1	AA	470	C	N3-C4-N4	8.28	123.80	118.00
1	AA	774	G	C4-C5-N7	-8.28	107.49	110.80
1	AA	1179	A	C4-C5-N7	-8.28	106.56	110.70
1	AA	1467	C	O4'-C1'-N1	8.28	114.83	108.20
35	BB	144	A	C8-N9-C4	-8.28	102.49	105.80
35	BB	841	G	O4'-C1'-N9	8.28	114.83	108.20
35	BB	844	A	C6-C5-N7	-8.28	126.50	132.30
35	BB	2026	U	O4'-C1'-N1	8.28	114.83	108.20
35	BB	2456	C	C4-C5-C6	8.28	121.54	117.40
1	AA	734	G	N7-C8-N9	8.28	117.24	113.10
1	AA	753	A	N1-C2-N3	-8.28	125.16	129.30
35	BB	89	A	C5-C6-N1	-8.28	113.56	117.70
35	BB	2357	G	C5-C6-O6	-8.28	123.63	128.60
1	AA	1492	A	N9-C4-C5	8.28	109.11	105.80
34	BA	64	G	C5-N7-C8	8.28	108.44	104.30
35	BB	2715	C	O4'-C1'-N1	8.28	114.82	108.20
35	BB	1531	C	O4'-C1'-N1	8.28	114.82	108.20
35	BB	2391	G	N7-C8-N9	-8.28	108.96	113.10
35	BB	2497	A	N7-C8-N9	-8.28	109.66	113.80
1	AA	832	G	N3-C2-N2	8.28	125.69	119.90
1	AA	1066	C	C6-N1-C2	-8.28	116.99	120.30
34	BA	19	C	O4'-C1'-N1	8.28	114.82	108.20
35	BB	578	G	O4'-C1'-N9	8.28	114.82	108.20
35	BB	1155	A	O4'-C1'-N9	8.28	114.82	108.20
35	BB	1269	A	N7-C8-N9	-8.28	109.66	113.80
35	BB	1339	G	O4'-C1'-N9	8.28	114.82	108.20
35	BB	1395	A	C8-N9-C4	-8.28	102.49	105.80
35	BB	2254	C	C4-C5-C6	8.28	121.54	117.40
20	AT	9	ARG	NE-CZ-NH2	-8.27	116.16	120.30
35	BB	314	C	C2-N3-C4	8.27	124.04	119.90
35	BB	2584	U	C3'-C2'-C1'	8.27	108.12	101.50
35	BB	497	A	C5-C6-N6	-8.27	117.08	123.70
35	BB	703	U	C5-C4-O4	-8.27	120.94	125.90
35	BB	860	U	O4'-C1'-N1	8.27	114.82	108.20
35	BB	2489	U	N3-C4-O4	8.27	125.19	119.40
35	BB	2655	G	O4'-C1'-N9	8.27	114.82	108.20
9	AI	118	ARG	NE-CZ-NH1	8.27	124.44	120.30
35	BB	485	C	N3-C4-N4	8.27	123.79	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	772	U	O4'-C1'-N1	8.27	114.81	108.20
1	AA	1020	G	C4-C5-C6	8.27	123.76	118.80
1	AA	1250	A	C8-N9-C4	-8.27	102.49	105.80
35	BB	1358	G	N9-C4-C5	-8.27	102.09	105.40
1	AA	346	G	O4'-C1'-N9	8.27	114.81	108.20
1	AA	1476	A	N1-C6-N6	8.27	123.56	118.60
35	BB	510	C	N3-C4-N4	8.27	123.79	118.00
35	BB	2666	C	C6-N1-C1'	-8.27	110.88	120.80
35	BB	976	G	C8-N9-C4	-8.27	103.09	106.40
35	BB	991	C	N3-C2-O2	8.27	127.69	121.90
35	BB	1027	A	P-O3'-C3'	8.27	129.62	119.70
35	BB	1169	A	O4'-C1'-N9	8.27	114.81	108.20
1	AA	36	C	O4'-C1'-N1	8.26	114.81	108.20
34	BA	49	C	C4-C5-C6	-8.26	113.27	117.40
34	BA	75	G	C2-N3-C4	8.26	116.03	111.90
35	BB	352	A	N9-C4-C5	8.26	109.11	105.80
35	BB	564	C	C4-C5-C6	8.26	121.53	117.40
35	BB	2186	G	O4'-C1'-N9	8.26	114.81	108.20
35	BB	1661	G	N1-C6-O6	8.26	124.86	119.90
1	AA	778	G	C6-C5-N7	-8.26	125.44	130.40
1	AA	812	G	N1-C2-N3	-8.26	118.94	123.90
1	AA	980	C	O4'-C1'-N1	8.26	114.81	108.20
35	BB	434	U	O4'-C1'-N1	8.26	114.81	108.20
35	BB	829	A	N9-C4-C5	-8.26	102.50	105.80
35	BB	2221	G	C5-C6-O6	-8.26	123.64	128.60
1	AA	1305	G	N9-C4-C5	8.26	108.70	105.40
1	AA	1338	G	C4-C5-N7	-8.26	107.50	110.80
35	BB	117	G	N7-C8-N9	8.26	117.23	113.10
1	AA	127	G	C6-C5-N7	-8.26	125.45	130.40
1	AA	225	C	C6-N1-C2	8.26	123.60	120.30
1	AA	521	G	C5-N7-C8	-8.26	100.17	104.30
1	AA	1025	U	P-O5'-C5'	8.26	134.11	120.90
35	BB	947	A	C3'-C2'-C1'	-8.26	94.89	101.50
1	AA	193	C	N3-C4-N4	8.26	123.78	118.00
1	AA	893	C	N1-C2-O2	8.26	123.85	118.90
1	AA	1305	G	C4-C5-C6	8.26	123.75	118.80
1	AA	1346	A	N1-C6-N6	8.26	123.55	118.60
35	BB	1338	G	C6-N1-C2	8.26	130.05	125.10
35	BB	1750	G	C2-N3-C4	8.26	116.03	111.90
35	BB	2105	U	O4'-C1'-N1	8.26	114.81	108.20
35	BB	2527	C	N3-C4-C5	-8.26	118.60	121.90
35	BB	1508	A	C2-N3-C4	-8.25	106.47	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	173	U	N3-C2-O2	8.25	127.98	122.20
1	AA	415	A	P-O3'-C3'	8.25	129.60	119.70
1	AA	610	U	O4'-C1'-N1	8.25	114.80	108.20
35	BB	2083	G	C2-N3-C4	8.25	116.03	111.90
34	BA	23	G	C4-C5-N7	8.25	114.10	110.80
35	BB	1906	G	C4-C5-N7	8.25	114.10	110.80
1	AA	149	A	N3-C4-C5	-8.25	121.03	126.80
35	BB	1916	A	C5-C6-N6	-8.25	117.10	123.70
1	AA	1293	C	O4'-C1'-N1	8.25	114.80	108.20
35	BB	2283	C	P-O5'-C5'	8.25	134.10	120.90
1	AA	325	A	C4-C5-C6	8.25	121.12	117.00
35	BB	888	C	O4'-C1'-N1	8.25	114.80	108.20
1	AA	115	G	C4-C5-C6	8.25	123.75	118.80
1	AA	370	C	O4'-C1'-N1	8.25	114.80	108.20
35	BB	1598	A	C4-C5-C6	8.25	121.12	117.00
1	AA	101	A	C5-C6-N6	-8.24	117.11	123.70
1	AA	427	U	N1-C2-N3	-8.24	109.95	114.90
1	AA	998	C	C5-C4-N4	-8.24	114.43	120.20
35	BB	881	G	C6-N1-C2	8.24	130.05	125.10
35	BB	2067	G	C5-C6-N1	-8.24	107.38	111.50
1	AA	1137	C	C5-C6-N1	8.24	125.12	121.00
35	BB	983	A	N1-C2-N3	-8.24	125.18	129.30
35	BB	1362	C	O4'-C1'-N1	8.24	114.80	108.20
35	BB	1433	A	C4-C5-C6	8.24	121.12	117.00
35	BB	1651	G	N7-C8-N9	-8.24	108.98	113.10
35	BB	2101	A	C6-N1-C2	8.24	123.55	118.60
35	BB	2531	A	C5-C6-N6	-8.24	117.10	123.70
1	AA	1410	A	C5-C6-N6	-8.24	117.11	123.70
35	BB	49	A	C4-C5-C6	8.24	121.12	117.00
35	BB	2406	A	C4-C5-C6	8.24	121.12	117.00
1	AA	60	A	N7-C8-N9	8.24	117.92	113.80
1	AA	76	G	N1-C6-O6	8.24	124.84	119.90
1	AA	559	A	C8-N9-C4	-8.24	102.50	105.80
35	BB	1241	A	O4'-C1'-N9	8.24	114.79	108.20
35	BB	2417	C	N3-C4-C5	-8.24	118.60	121.90
35	BB	1229	C	C5-C6-N1	8.24	125.12	121.00
1	AA	78	A	C4-C5-C6	8.24	121.12	117.00
1	AA	486	U	C2-N3-C4	-8.24	122.06	127.00
1	AA	1278	G	OP1-P-OP2	-8.24	107.25	119.60
1	AA	1477	U	O4'-C1'-N1	8.24	114.79	108.20
1	AA	1509	C	C6-N1-C2	-8.24	117.00	120.30
35	BB	344	A	O4'-C1'-N9	8.24	114.79	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	795	C	C5-C4-N4	-8.24	114.43	120.20
35	BB	388	G	C5-C6-O6	-8.23	123.66	128.60
35	BB	1114	C	C5-C6-N1	-8.23	116.88	121.00
35	BB	2346	A	C4-C5-C6	8.23	121.12	117.00
35	BB	2419	U	O4'-C1'-N1	8.23	114.79	108.20
35	BB	2356	U	O4'-C1'-N1	8.23	114.79	108.20
35	BB	2871	U	O4'-C1'-N1	8.23	114.79	108.20
55	BW	19	ARG	NE-CZ-NH1	8.23	124.42	120.30
34	BA	20	G	N1-C6-O6	8.23	124.84	119.90
35	BB	1317	G	O4'-C1'-N9	8.23	114.78	108.20
35	BB	2677	G	N7-C8-N9	-8.23	108.98	113.10
52	BS	22	ASP	CB-CG-OD2	-8.23	110.89	118.30
1	AA	893	C	O4'-C1'-N1	8.23	114.78	108.20
34	BA	93	C	N3-C4-C5	-8.23	118.61	121.90
35	BB	128	C	O4'-C1'-N1	8.23	114.78	108.20
35	BB	800	A	C4-C5-C6	8.23	121.11	117.00
1	AA	399	G	N1-C6-O6	8.23	124.83	119.90
1	AA	833	G	O4'-C1'-N9	8.23	114.78	108.20
35	BB	1337	G	N1-C2-N3	-8.23	118.96	123.90
35	BB	1979	U	O4'-C1'-N1	8.23	114.78	108.20
35	BB	2061	G	C4-N9-C1'	8.23	137.19	126.50
35	BB	917	A	N1-C6-N6	8.22	123.53	118.60
35	BB	2266	A	C5-C6-N1	-8.22	113.59	117.70
35	BB	2471	A	C5-C6-N6	-8.22	117.12	123.70
48	BO	30	ARG	NE-CZ-NH2	-8.22	116.19	120.30
1	AA	189	A	C5-N7-C8	8.22	108.01	103.90
1	AA	966	G	N1-C6-O6	8.22	124.83	119.90
35	BB	295	G	C4-C5-N7	8.22	114.09	110.80
35	BB	1018	U	C2-N3-C4	-8.22	122.07	127.00
35	BB	1913	A	C4-C5-N7	-8.22	106.59	110.70
35	BB	474	G	C5-C6-O6	-8.22	123.67	128.60
35	BB	1438	U	N3-C4-C5	-8.22	109.67	114.60
35	BB	2151	U	C2-N3-C4	-8.22	122.07	127.00
35	BB	2512	C	C6-N1-C2	8.22	123.59	120.30
1	AA	713	G	C6-C5-N7	-8.22	125.47	130.40
1	AA	767	A	C4-C5-C6	8.22	121.11	117.00
1	AA	831	A	N1-C6-N6	8.22	123.53	118.60
1	AA	1242	G	C5-C6-N1	-8.22	107.39	111.50
1	AA	1383	C	C6-N1-C2	-8.22	117.01	120.30
22	AV	53	G	C5-C6-O6	-8.22	123.67	128.60
34	BA	31	C	N3-C4-C5	-8.22	118.61	121.90
34	BA	100	G	C5-C6-O6	-8.22	123.67	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	259	G	N1-C6-O6	8.22	124.83	119.90
35	BB	500	G	N3-C2-N2	8.22	125.65	119.90
35	BB	2025	C	C5-C6-N1	8.22	125.11	121.00
35	BB	634	C	O4'-C1'-N1	8.22	114.77	108.20
35	BB	1194	A	C4-C5-C6	8.22	121.11	117.00
35	BB	1756	G	N3-C2-N2	8.22	125.65	119.90
35	BB	2088	A	C5-C6-N6	-8.22	117.13	123.70
49	BP	19	PHE	CB-CG-CD1	-8.22	115.05	120.80
52	BS	61	ASN	N-CA-CB	8.22	125.39	110.60
1	AA	998	C	N3-C4-C5	8.22	125.19	121.90
1	AA	1238	A	C2-N3-C4	8.22	114.71	110.60
35	BB	595	C	N3-C4-C5	-8.22	118.61	121.90
35	BB	1743	G	N1-C2-N3	-8.22	118.97	123.90
35	BB	1873	G	C5-N7-C8	8.22	108.41	104.30
1	AA	247	G	C5-C6-O6	-8.21	123.67	128.60
1	AA	724	G	C5-C6-O6	-8.21	123.67	128.60
35	BB	96	C	N3-C4-N4	8.21	123.75	118.00
35	BB	722	A	C5-C6-N1	-8.21	113.59	117.70
35	BB	1569	A	C8-N9-C4	-8.21	102.51	105.80
1	AA	330	C	C4-C5-C6	8.21	121.50	117.40
1	AA	1295	U	C1'-O4'-C4'	8.21	116.47	109.90
1	AA	1237	C	O4'-C1'-N1	8.21	114.77	108.20
34	BA	34	A	C5-C6-N6	-8.21	117.13	123.70
34	BA	87	U	C6-N1-C2	8.21	125.93	121.00
35	BB	734	A	C4-C5-C6	8.21	121.11	117.00
35	BB	1342	A	C4-C5-C6	8.21	121.11	117.00
35	BB	2730	C	C5-C4-N4	-8.21	114.45	120.20
35	BB	2772	C	N3-C4-N4	8.21	123.75	118.00
1	AA	510	A	C8-N9-C4	-8.21	102.52	105.80
34	BA	97	C	C3'-C2'-C1'	-8.21	94.93	101.50
35	BB	136	G	C6-C5-N7	-8.21	125.47	130.40
35	BB	1945	G	N1-C6-O6	8.21	124.83	119.90
35	BB	463	G	N1-C6-O6	8.21	124.82	119.90
35	BB	2089	C	C4-C5-C6	8.21	121.50	117.40
35	BB	2796	U	C5-C4-O4	-8.21	120.98	125.90
1	AA	67	C	N3-C4-C5	-8.21	118.62	121.90
1	AA	774	G	P-O3'-C3'	-8.21	109.85	119.70
1	AA	844	G	N3-C4-C5	-8.20	124.50	128.60
1	AA	1055	A	N7-C8-N9	8.21	117.90	113.80
1	AA	1339	A	N1-C6-N6	8.20	123.52	118.60
35	BB	96	C	N1-C2-N3	-8.21	113.46	119.20
35	BB	244	A	N1-C2-N3	8.21	133.40	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	761	A	C5-C6-N1	-8.20	113.60	117.70
35	BB	1434	A	O4'-C1'-N9	8.20	114.76	108.20
35	BB	1480	C	N3-C4-N4	8.20	123.74	118.00
35	BB	1858	A	C5-N7-C8	8.20	108.00	103.90
1	AA	155	A	N7-C8-N9	8.20	117.90	113.80
35	BB	76	C	C6-N1-C2	-8.20	117.02	120.30
1	AA	197	A	C5-C6-N6	-8.20	117.14	123.70
34	BA	62	C	N3-C4-N4	8.20	123.74	118.00
35	BB	467	G	O4'-C1'-N9	8.20	114.76	108.20
35	BB	836	G	N1-C6-O6	8.20	124.82	119.90
35	BB	1884	G	N1-C6-O6	8.20	124.82	119.90
35	BB	1543	G	C5-C6-N1	-8.20	107.40	111.50
35	BB	1949	G	C5-N7-C8	8.20	108.40	104.30
35	BB	2240	U	O4'-C1'-N1	8.20	114.76	108.20
1	AA	1470	U	N3-C4-O4	8.20	125.14	119.40
29	B4	20	TYR	CB-CG-CD2	8.20	125.92	121.00
1	AA	164	G	N7-C8-N9	8.20	117.20	113.10
1	AA	877	G	N3-C4-C5	8.20	132.70	128.60
1	AA	1240	U	P-O5'-C5'	-8.20	107.78	120.90
1	AA	1251	A	C4-C5-C6	8.20	121.10	117.00
34	BA	45	A	N7-C8-N9	-8.20	109.70	113.80
35	BB	122	G	C6-C5-N7	-8.20	125.48	130.40
35	BB	2216	G	C5-C6-O6	-8.20	123.68	128.60
35	BB	69	C	C6-N1-C2	-8.20	117.02	120.30
35	BB	490	C	O4'-C1'-N1	8.20	114.76	108.20
35	BB	1999	C	C6-N1-C2	8.20	123.58	120.30
35	BB	2620	C	C2-N3-C4	8.20	124.00	119.90
1	AA	98	A	C5-C6-N6	-8.20	117.14	123.70
1	AA	428	G	N9-C4-C5	-8.20	102.12	105.40
1	AA	1179	A	C5-N7-C8	8.20	108.00	103.90
1	AA	141	G	C6-C5-N7	-8.20	125.48	130.40
35	BB	681	G	N1-C6-O6	8.20	124.82	119.90
35	BB	764	A	N9-C4-C5	8.20	109.08	105.80
35	BB	777	G	C5-C6-O6	-8.20	123.68	128.60
1	AA	366	A	C4-C5-N7	-8.19	106.60	110.70
1	AA	953	G	C6-C5-N7	-8.20	125.48	130.40
3	AC	87	ARG	NE-CZ-NH1	-8.19	116.20	120.30
10	AJ	62	ARG	NE-CZ-NH2	8.20	124.40	120.30
34	BA	56	G	N9-C4-C5	8.19	108.68	105.40
35	BB	173	A	C5-N7-C8	8.19	108.00	103.90
35	BB	339	U	N3-C4-C5	-8.19	109.68	114.60
35	BB	1689	A	C5-C6-N1	-8.20	113.60	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2021	C	N3-C4-C5	-8.19	118.62	121.90
35	BB	2092	U	O4'-C1'-N1	8.20	114.76	108.20
35	BB	2626	C	C5-C6-N1	8.19	125.10	121.00
35	BB	2775	G	N3-C2-N2	8.20	125.64	119.90
35	BB	2856	A	N1-C6-N6	8.19	123.52	118.60
1	AA	830	G	N1-C6-O6	8.19	124.82	119.90
35	BB	1861	G	C5-C6-O6	-8.19	123.68	128.60
1	AA	318	G	O4'-C1'-N9	8.19	114.75	108.20
35	BB	1157	G	C6-C5-N7	-8.19	125.48	130.40
35	BB	2407	A	N9-C4-C5	8.19	109.08	105.80
40	BG	54	ARG	NE-CZ-NH2	-8.19	116.20	120.30
1	AA	666	G	N1-C2-N3	-8.19	118.99	123.90
1	AA	857	C	C4-C5-C6	8.19	121.49	117.40
1	AA	1303	C	C4-C5-C6	8.19	121.50	117.40
35	BB	557	C	O4'-C1'-N1	8.19	114.75	108.20
1	AA	1338	G	C5-C6-O6	-8.19	123.69	128.60
35	BB	289	G	N1-C6-O6	8.19	124.81	119.90
35	BB	315	G	C4-C5-N7	-8.19	107.53	110.80
35	BB	700	G	C2-N3-C4	8.19	115.99	111.90
35	BB	2797	U	C2-N1-C1'	8.19	127.53	117.70
34	BA	108	A	N1-C6-N6	8.19	123.51	118.60
1	AA	1142	G	O4'-C1'-N9	8.19	114.75	108.20
35	BB	1514	G	N3-C4-C5	-8.19	124.51	128.60
35	BB	2043	C	C4-C5-C6	8.19	121.49	117.40
35	BB	2640	G	O4'-C1'-N9	8.19	114.75	108.20
35	BB	2147	A	P-O3'-C3'	8.19	129.52	119.70
35	BB	2798	U	C6-N1-C2	-8.19	116.09	121.00
1	AA	754	C	C6-N1-C1'	-8.18	110.98	120.80
1	AA	1146	A	N1-C6-N6	8.18	123.51	118.60
1	AA	1416	G	C5-C6-N1	-8.18	107.41	111.50
22	AV	49	G	N1-C6-O6	8.18	124.81	119.90
35	BB	2450	A	C5-C6-N6	-8.18	117.15	123.70
35	BB	751	A	C5-N7-C8	8.18	107.99	103.90
35	BB	1218	G	N3-C2-N2	8.18	125.63	119.90
35	BB	1343	G	N1-C6-O6	8.18	124.81	119.90
35	BB	2657	A	N1-C6-N6	8.18	123.51	118.60
1	AA	514	C	N3-C4-C5	-8.18	118.63	121.90
1	AA	422	C	N3-C4-N4	8.18	123.72	118.00
1	AA	974	A	C6-C5-N7	-8.18	126.58	132.30
1	AA	1526	G	C4-C5-C6	8.18	123.71	118.80
35	BB	191	A	C5-C6-N1	-8.18	113.61	117.70
35	BB	930	G	N1-C6-O6	8.18	124.81	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1085	A	C5-C6-N6	-8.18	117.16	123.70
35	BB	2411	A	N9-C4-C5	8.18	109.07	105.80
1	AA	929	G	C4-C5-N7	-8.18	107.53	110.80
1	AA	950	U	C4-C5-C6	-8.18	114.79	119.70
8	AH	44	PHE	CB-CG-CD2	8.18	126.52	120.80
35	BB	151	C	C2-N3-C4	8.18	123.99	119.90
35	BB	334	C	C4'-C3'-C2'	-8.18	94.42	102.60
35	BB	1014	A	N9-C4-C5	8.18	109.07	105.80
35	BB	1361	G	C8-N9-C4	-8.18	103.13	106.40
35	BB	1770	G	C6-C5-N7	-8.18	125.50	130.40
35	BB	2841	C	O4'-C1'-N1	8.18	114.74	108.20
35	BB	2872	A	C5-C6-N6	-8.18	117.16	123.70
35	BB	514	A	C5-C6-N1	-8.17	113.61	117.70
1	AA	139	A	C4-C5-C6	8.17	121.09	117.00
1	AA	681	A	N1-C6-N6	8.17	123.50	118.60
1	AA	793	U	C5-C4-O4	-8.17	121.00	125.90
35	BB	578	G	C5-N7-C8	-8.17	100.21	104.30
35	BB	683	U	C6-N1-C2	-8.17	116.10	121.00
35	BB	884	U	N3-C4-O4	8.17	125.12	119.40
35	BB	1231	U	C6-N1-C2	-8.17	116.10	121.00
35	BB	1253	A	O4'-C1'-N9	8.17	114.74	108.20
35	BB	1881	C	N3-C4-C5	-8.17	118.63	121.90
35	BB	2620	C	N3-C4-C5	-8.17	118.63	121.90
35	BB	1311	G	C5-C6-O6	-8.17	123.70	128.60
35	BB	1965	C	N3-C4-C5	-8.17	118.63	121.90
35	BB	2193	G	C5-C6-O6	-8.17	123.70	128.60
35	BB	2301	C	C6-N1-C2	8.17	123.57	120.30
35	BB	2330	G	C3'-C2'-C1'	-8.17	94.96	101.50
35	BB	2570	G	O4'-C1'-N9	8.17	114.74	108.20
1	AA	1119	C	O4'-C1'-N1	8.17	114.74	108.20
35	BB	274	C	O4'-C1'-N1	8.17	114.74	108.20
35	BB	1038	G	N3-C2-N2	8.17	125.62	119.90
1	AA	621	A	C8-N9-C4	-8.17	102.53	105.80
1	AA	742	G	N1-C6-O6	8.17	124.80	119.90
1	AA	1194	U	C4-C5-C6	-8.17	114.80	119.70
35	BB	1139	G	O4'-C1'-N9	8.17	114.74	108.20
35	BB	1393	A	C4'-C3'-C2'	-8.17	94.43	102.60
35	BB	1574	C	O4'-C1'-N1	8.17	114.74	108.20
35	BB	1743	G	C4-C5-N7	8.17	114.07	110.80
35	BB	2423	U	C3'-C2'-C1'	-8.17	94.96	101.50
35	BB	2829	A	C6-C5-N7	-8.17	126.58	132.30
1	AA	522	C	N3-C4-C5	-8.17	118.63	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	845	A	C2-N3-C4	8.17	114.68	110.60
1	AA	1196	A	C6-C5-N7	-8.17	126.58	132.30
1	AA	1243	C	N3-C4-C5	-8.17	118.63	121.90
34	BA	94	A	O4'-C1'-N9	8.17	114.73	108.20
34	BA	116	G	O4'-C1'-N9	8.17	114.73	108.20
35	BB	85	G	C4-C5-N7	-8.17	107.53	110.80
35	BB	527	C	C2-N1-C1'	8.17	127.78	118.80
35	BB	1102	C	C2-N3-C4	8.17	123.98	119.90
35	BB	1137	G	C5-C6-O6	-8.17	123.70	128.60
35	BB	1387	A	N9-C4-C5	8.17	109.07	105.80
35	BB	1580	A	N1-C6-N6	8.17	123.50	118.60
35	BB	1813	G	C5-C6-O6	-8.17	123.70	128.60
35	BB	1845	G	N1-C6-O6	8.17	124.80	119.90
35	BB	1918	A	N9-C4-C5	8.17	109.07	105.80
35	BB	2531	A	O4'-C1'-N9	8.17	114.73	108.20
1	AA	339	C	C4-C5-C6	8.16	121.48	117.40
1	AA	1350	A	N1-C2-N3	8.16	133.38	129.30
35	BB	15	G	C5-C6-O6	-8.16	123.70	128.60
35	BB	941	A	C5-N7-C8	8.16	107.98	103.90
35	BB	1737	G	P-O3'-C3'	8.16	129.50	119.70
35	BB	701	G	C5-C6-N1	-8.16	107.42	111.50
35	BB	761	A	C2-N3-C4	-8.16	106.52	110.60
35	BB	1016	G	O4'-C1'-N9	8.16	114.73	108.20
35	BB	1788	C	C5-C4-N4	-8.16	114.49	120.20
35	BB	1822	C	N3-C4-C5	-8.16	118.64	121.90
35	BB	2164	C	O4'-C1'-N1	8.16	114.73	108.20
41	BH	27	ARG	NE-CZ-NH2	-8.16	116.22	120.30
35	BB	175	G	N1-C2-N2	-8.16	108.86	116.20
35	BB	361	G	C6-N1-C2	-8.16	120.20	125.10
35	BB	2251	G	N3-C4-C5	8.16	132.68	128.60
35	BB	2648	G	N3-C4-N9	8.16	130.90	126.00
1	AA	320	A	C5-C6-N1	-8.16	113.62	117.70
1	AA	419	C	N1-C2-O2	-8.16	114.00	118.90
1	AA	1316	G	N3-C2-N2	8.16	125.61	119.90
35	BB	380	G	C5-C6-N1	-8.16	107.42	111.50
35	BB	973	A	C5'-C4'-O4'	8.16	118.89	109.10
35	BB	1114	C	N3-C4-C5	-8.16	118.64	121.90
35	BB	1477	A	N1-C6-N6	8.16	123.50	118.60
35	BB	1674	G	N3-C2-N2	8.16	125.61	119.90
35	BB	270	A	O4'-C1'-N9	8.16	114.73	108.20
1	AA	402	G	C5-C6-O6	-8.16	123.71	128.60
1	AA	1274	A	N3-C4-C5	-8.16	121.09	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1303	C	O4'-C1'-N1	8.16	114.72	108.20
35	BB	1120	G	C2-N3-C4	-8.16	107.82	111.90
35	BB	847	U	O4'-C1'-N1	8.15	114.72	108.20
35	BB	2900	A	C5-N7-C8	-8.15	99.82	103.90
1	AA	53	A	O4'-C1'-N9	8.15	114.72	108.20
1	AA	444	G	C4-C5-C6	8.15	123.69	118.80
1	AA	763	G	C8-N9-C4	-8.15	103.14	106.40
1	AA	952	U	C5-C6-N1	8.15	126.78	122.70
35	BB	1779	U	C6-N1-C2	-8.15	116.11	121.00
35	BB	2484	G	O4'-C1'-N9	8.15	114.72	108.20
1	AA	1009	U	O4'-C1'-N1	8.15	114.72	108.20
35	BB	36	G	C8-N9-C4	-8.15	103.14	106.40
35	BB	95	A	C5'-C4'-O4'	8.15	118.88	109.10
35	BB	2503	A	C4-C5-N7	-8.15	106.62	110.70
1	AA	79	G	N3-C2-N2	8.15	125.61	119.90
1	AA	491	G	N3-C4-C5	-8.15	124.52	128.60
1	AA	1197	A	N1-C6-N6	8.15	123.49	118.60
1	AA	1342	C	O4'-C1'-N1	8.15	114.72	108.20
35	BB	733	G	N3-C2-N2	8.15	125.61	119.90
35	BB	2348	U	C1'-O4'-C4'	-8.15	103.38	109.90
35	BB	2444	G	C5-C6-O6	-8.15	123.71	128.60
1	AA	293	G	C4-C5-C6	8.15	123.69	118.80
1	AA	725	G	N7-C8-N9	-8.15	109.03	113.10
35	BB	1004	U	N3-C4-O4	8.15	125.11	119.40
35	BB	1428	C	O4'-C1'-N1	8.15	114.72	108.20
35	BB	1824	G	O4'-C1'-N9	8.15	114.72	108.20
1	AA	377	G	C2-N3-C4	-8.15	107.83	111.90
1	AA	757	U	C2-N3-C4	-8.15	122.11	127.00
1	AA	948	C	C4-C5-C6	8.15	121.47	117.40
35	BB	180	G	C5-C6-O6	-8.15	123.71	128.60
35	BB	791	C	O4'-C1'-N1	8.15	114.72	108.20
35	BB	998	C	O4'-C1'-N1	8.15	114.72	108.20
35	BB	1485	U	N3-C4-O4	8.15	125.10	119.40
35	BB	1526	C	C5-C6-N1	8.15	125.07	121.00
35	BB	1206	G	C5-C6-N1	-8.15	107.43	111.50
35	BB	2671	G	O4'-C1'-N9	8.15	114.72	108.20
35	BB	2868	A	C5-C6-N1	-8.15	113.63	117.70
1	AA	81	A	N1-C6-N6	8.14	123.49	118.60
35	BB	1222	U	N3-C2-O2	8.14	127.90	122.20
1	AA	439	U	C2-N3-C4	8.14	131.89	127.00
1	AA	588	G	C5-C6-O6	-8.14	123.71	128.60
35	BB	896	A	O4'-C1'-N9	8.14	114.72	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1517	G	C5-C6-O6	8.14	133.49	128.60
35	BB	1556	C	N3-C4-N4	8.14	123.70	118.00
35	BB	2144	G	C5-C6-O6	-8.14	123.71	128.60
35	BB	2735	G	C2-N3-C4	-8.14	107.83	111.90
1	AA	495	A	C6-C5-N7	-8.14	126.60	132.30
1	AA	713	G	C4-C5-N7	8.14	114.06	110.80
35	BB	1284	A	C5-N7-C8	8.14	107.97	103.90
1	AA	894	G	C5-C6-O6	-8.14	123.72	128.60
35	BB	83	A	N1-C6-N6	8.14	123.48	118.60
35	BB	1314	C	C5-C4-N4	-8.14	114.50	120.20
35	BB	1403	A	C5-N7-C8	8.14	107.97	103.90
35	BB	1999	C	N3-C4-N4	8.14	123.70	118.00
1	AA	371	A	C5-C6-N1	-8.14	113.63	117.70
1	AA	515	G	N1-C6-O6	8.14	124.78	119.90
1	AA	200	G	N3-C2-N2	8.14	125.60	119.90
1	AA	968	A	C6-N1-C2	8.14	123.48	118.60
1	AA	980	C	P-O3'-C3'	8.14	129.47	119.70
1	AA	1517	G	C5-C6-N1	-8.14	107.43	111.50
34	BA	108	A	O4'-C1'-N9	8.14	114.71	108.20
35	BB	2487	G	C2-N3-C4	-8.14	107.83	111.90
34	BA	113	C	N3-C4-N4	8.14	123.70	118.00
35	BB	13	A	C4-C5-C6	8.14	121.07	117.00
35	BB	185	G	C5-C6-N1	-8.14	107.43	111.50
35	BB	1560	G	N1-C6-O6	8.14	124.78	119.90
35	BB	2128	G	C6-N1-C2	8.14	129.98	125.10
35	BB	2831	G	C5-C6-O6	-8.14	123.72	128.60
1	AA	306	A	C5-C6-N1	-8.14	113.63	117.70
1	AA	357	G	N3-C4-N9	8.14	130.88	126.00
1	AA	447	G	C4-C5-C6	8.13	123.68	118.80
1	AA	547	A	C8-N9-C4	8.13	109.05	105.80
1	AA	695	A	O4'-C1'-N9	8.13	114.71	108.20
1	AA	862	C	O4'-C1'-N1	8.13	114.71	108.20
1	AA	1243	C	N3-C4-N4	8.13	123.69	118.00
14	AN	80	ARG	NE-CZ-NH1	-8.13	116.23	120.30
35	BB	1863	G	C4-C5-C6	8.13	123.68	118.80
35	BB	1937	A	O4'-C1'-N9	8.13	114.71	108.20
35	BB	2145	C	O4'-C1'-N1	8.13	114.71	108.20
35	BB	2660	A	N1-C6-N6	8.13	123.48	118.60
1	AA	730	G	C2-N3-C4	8.13	115.97	111.90
1	AA	1137	C	C5-C4-N4	-8.13	114.51	120.20
1	AA	1331	G	P-O5'-C5'	8.13	133.91	120.90
1	AA	1441	A	N3-C4-C5	-8.13	121.11	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1702	G	C8-N9-C4	-8.13	103.15	106.40
1	AA	829	G	N1-C2-N3	-8.13	119.02	123.90
1	AA	1459	G	N1-C6-O6	8.13	124.78	119.90
35	BB	585	G	C2-N3-C4	8.13	115.97	111.90
35	BB	736	C	O4'-C1'-N1	8.13	114.70	108.20
35	BB	818	G	N1-C2-N3	-8.13	119.02	123.90
35	BB	1107	G	C5'-C4'-C3'	8.13	129.01	116.00
35	BB	218	A	N7-C8-N9	-8.13	109.73	113.80
35	BB	1936	A	C8-N9-C4	-8.13	102.55	105.80
35	BB	2340	A	C8-N9-C4	-8.13	102.55	105.80
35	BB	2792	A	C8-N9-C4	-8.13	102.55	105.80
35	BB	2039	U	O4'-C1'-N1	8.13	114.70	108.20
35	BB	2767	C	N3-C4-N4	8.13	123.69	118.00
1	AA	444	G	C6-C5-N7	-8.13	125.52	130.40
1	AA	1290	G	N9-C4-C5	-8.13	102.15	105.40
1	AA	1294	G	N7-C8-N9	8.13	117.17	113.10
1	AA	1511	G	C5-C6-O6	-8.13	123.72	128.60
34	BA	47	C	C6-N1-C2	-8.13	117.05	120.30
35	BB	184	C	C2-N3-C4	8.13	123.96	119.90
35	BB	291	G	O4'-C1'-N9	8.13	114.70	108.20
35	BB	649	G	C8-N9-C4	-8.13	103.15	106.40
35	BB	1116	G	O4'-C1'-N9	8.13	114.70	108.20
35	BB	2159	G	C6-N1-C2	8.13	129.98	125.10
35	BB	2192	U	O4'-C1'-N1	8.13	114.70	108.20
35	BB	2867	G	C2-N3-C4	8.13	115.96	111.90
35	BB	94	A	P-O3'-C3'	8.13	129.45	119.70
35	BB	1483	G	N3-C2-N2	8.13	125.59	119.90
35	BB	1783	A	N9-C4-C5	-8.13	102.55	105.80
1	AA	315	A	C5-N7-C8	8.12	107.96	103.90
1	AA	478	A	C5-C6-N1	-8.12	113.64	117.70
9	AI	122	ARG	NE-CZ-NH1	-8.12	116.24	120.30
35	BB	1256	G	N9-C4-C5	8.12	108.65	105.40
35	BB	1420	A	C2-N3-C4	-8.12	106.54	110.60
35	BB	627	A	N1-C6-N6	8.12	123.47	118.60
1	AA	305	G	O4'-C1'-N9	8.12	114.70	108.20
1	AA	439	U	N3-C4-C5	-8.12	109.73	114.60
1	AA	1487	G	C5-C6-O6	-8.12	123.73	128.60
1	AA	42	G	O4'-C1'-N9	8.12	114.70	108.20
1	AA	1242	G	C4-C5-C6	8.12	123.67	118.80
1	AA	457	G	C4-C5-C6	8.12	123.67	118.80
1	AA	609	A	C1'-O4'-C4'	8.12	116.39	109.90
1	AA	1106	G	N3-C2-N2	8.12	125.58	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1138	G	N7-C8-N9	8.12	117.16	113.10
35	BB	668	A	C4-C5-C6	8.12	121.06	117.00
35	BB	961	C	N3-C4-C5	-8.12	118.65	121.90
35	BB	2884	U	N3-C4-C5	-8.12	109.73	114.60
1	AA	1238	A	C5-N7-C8	8.12	107.96	103.90
1	AA	1476	A	C5-C6-N1	-8.12	113.64	117.70
35	BB	2094	A	C6-C5-N7	-8.12	126.62	132.30
35	BB	2096	C	O4'-C1'-N1	8.12	114.69	108.20
35	BB	324	A	C5-C6-N6	-8.11	117.21	123.70
35	BB	1640	A	C5-C6-N1	-8.11	113.64	117.70
35	BB	2136	G	C4'-C3'-C2'	-8.12	94.48	102.60
39	BF	127	TYR	CB-CG-CD2	-8.12	116.13	121.00
1	AA	566	G	C5-C6-N1	-8.11	107.44	111.50
35	BB	1034	G	N1-C2-N3	-8.11	119.03	123.90
34	BA	99	A	N1-C2-N3	8.11	133.36	129.30
34	BA	113	C	C5-C4-N4	-8.11	114.52	120.20
35	BB	1768	C	C2-N3-C4	8.11	123.96	119.90
35	BB	2365	G	O4'-C1'-N9	8.11	114.69	108.20
35	BB	119	A	N1-C6-N6	8.11	123.47	118.60
35	BB	1151	A	O4'-C1'-N9	8.11	114.69	108.20
35	BB	1999	C	C5-C6-N1	-8.11	116.94	121.00
1	AA	974	A	C5-C6-N1	-8.11	113.65	117.70
1	AA	1237	C	N3-C4-N4	8.11	123.68	118.00
35	BB	76	C	N3-C4-C5	-8.11	118.66	121.90
35	BB	708	G	C5-C6-O6	-8.11	123.73	128.60
35	BB	354	A	O5'-P-OP1	8.11	120.43	110.70
35	BB	510	C	C3'-C2'-C1'	8.11	107.99	101.50
35	BB	920	A	O4'-C1'-N9	8.11	114.69	108.20
35	BB	1129	A	C5-C6-N1	-8.11	113.65	117.70
35	BB	1407	G	N3-C4-C5	-8.11	124.55	128.60
35	BB	1708	C	N3-C4-C5	-8.11	118.66	121.90
35	BB	2088	A	N7-C8-N9	-8.11	109.75	113.80
1	AA	1241	G	N1-C2-N3	-8.11	119.04	123.90
35	BB	843	G	N9-C4-C5	-8.11	102.16	105.40
35	BB	2846	G	N3-C4-C5	8.11	132.65	128.60
1	AA	167	A	C5-C6-N1	-8.11	113.65	117.70
1	AA	386	C	P-O3'-C3'	-8.11	109.97	119.70
35	BB	122	G	N3-C4-C5	-8.11	124.55	128.60
35	BB	627	A	C8-N9-C4	-8.11	102.56	105.80
43	BJ	119	PHE	CB-CG-CD1	8.11	126.47	120.80
1	AA	580	C	C5-C4-N4	-8.10	114.53	120.20
35	BB	888	C	N3-C4-N4	8.10	123.67	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1941	C	O4'-C1'-N1	8.10	114.68	108.20
1	AA	51	A	N3-C4-C5	-8.10	121.13	126.80
1	AA	448	A	N7-C8-N9	-8.10	109.75	113.80
34	BA	41	G	N3-C2-N2	8.10	125.57	119.90
35	BB	151	C	O4'-C1'-N1	8.10	114.68	108.20
35	BB	207	A	O4'-C1'-N9	8.10	114.68	108.20
35	BB	924	G	N3-C4-C5	-8.10	124.55	128.60
35	BB	1071	G	C5-C6-N1	-8.10	107.45	111.50
35	BB	1877	A	C5-N7-C8	8.10	107.95	103.90
35	BB	2366	A	C5-N7-C8	8.10	107.95	103.90
35	BB	2774	C	C5-C6-N1	-8.10	116.95	121.00
1	AA	627	G	O4'-C1'-N9	8.10	114.68	108.20
1	AA	640	A	O4'-C1'-N9	8.10	114.68	108.20
35	BB	250	G	N3-C2-N2	8.10	125.57	119.90
22	AV	25	C	O4'-C1'-N1	8.10	114.68	108.20
34	BA	66	A	C5-C6-N6	-8.10	117.22	123.70
35	BB	307	G	C2-N3-C4	8.10	115.95	111.90
35	BB	1731	G	C4-C5-N7	-8.10	107.56	110.80
35	BB	2495	G	C5-C6-O6	-8.10	123.74	128.60
1	AA	182	A	N1-C6-N6	8.10	123.46	118.60
1	AA	736	C	P-O5'-C5'	-8.10	107.95	120.90
1	AA	770	C	O4'-C1'-N1	8.10	114.68	108.20
1	AA	1054	C	O4'-C1'-N1	8.10	114.68	108.20
1	AA	1508	A	C5-C6-N6	-8.10	117.22	123.70
23	AX	19	A	C6-C5-N7	-8.10	126.63	132.30
35	BB	568	U	C5-C6-N1	-8.10	118.65	122.70
35	BB	823	C	O4'-C1'-N1	8.10	114.68	108.20
35	BB	1526	C	C2-N3-C4	8.10	123.95	119.90
35	BB	1887	C	C6-N1-C2	8.10	123.54	120.30
35	BB	2141	G	O4'-C1'-N9	8.10	114.68	108.20
1	AA	1392	G	N1-C2-N3	-8.10	119.04	123.90
35	BB	1110	G	N1-C6-O6	8.10	124.76	119.90
35	BB	1939	U	C4-C5-C6	8.10	124.56	119.70
35	BB	2090	A	P-O5'-C5'	-8.10	107.95	120.90
35	BB	2179	C	O4'-C1'-N1	8.10	114.68	108.20
35	BB	2901	C	N3-C4-N4	8.10	123.67	118.00
35	BB	183	C	C1'-O4'-C4'	-8.09	103.42	109.90
1	AA	269	C	N3-C4-N4	8.09	123.66	118.00
1	AA	748	G	N1-C6-O6	8.09	124.76	119.90
1	AA	1099	G	N1-C2-N3	-8.09	119.04	123.90
35	BB	473	G	C5-C6-N1	-8.09	107.45	111.50
35	BB	869	G	N1-C6-O6	8.09	124.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2537	U	C2-N3-C4	8.09	131.86	127.00
35	BB	618	G	N1-C2-N3	-8.09	119.05	123.90
35	BB	701	G	N3-C2-N2	8.09	125.56	119.90
35	BB	1059	G	C8-N9-C4	8.09	109.64	106.40
35	BB	1069	A	C6-C5-N7	-8.09	126.64	132.30
35	BB	1782	U	O4'-C1'-N1	8.09	114.67	108.20
1	AA	815	A	C4-C5-C6	8.09	121.05	117.00
35	BB	219	A	O4'-C1'-N9	8.09	114.67	108.20
34	BA	94	A	C4-C5-C6	8.09	121.05	117.00
35	BB	178	G	N1-C6-O6	8.09	124.75	119.90
35	BB	498	G	C5-C6-O6	-8.09	123.75	128.60
35	BB	947	A	N1-C2-N3	8.09	133.34	129.30
35	BB	968	C	C5-C6-N1	-8.09	116.96	121.00
35	BB	2270	A	N1-C2-N3	8.09	133.34	129.30
35	BB	2478	A	C5-N7-C8	8.09	107.94	103.90
35	BB	689	A	C5-C6-N1	-8.09	113.66	117.70
35	BB	1118	C	C1'-O4'-C4'	8.09	116.37	109.90
1	AA	844	G	N3-C4-N9	8.09	130.85	126.00
35	BB	1494	A	O4'-C1'-N9	8.09	114.67	108.20
35	BB	2229	U	C6-N1-C2	-8.09	116.15	121.00
37	BD	31	ALA	N-CA-CB	8.09	121.42	110.10
1	AA	1441	A	C2-N3-C4	8.09	114.64	110.60
35	BB	312	G	N9-C4-C5	-8.09	102.17	105.40
35	BB	463	G	C5-C6-O6	-8.09	123.75	128.60
35	BB	1543	G	N9-C4-C5	8.09	108.63	105.40
35	BB	2199	A	C6-N1-C2	8.09	123.45	118.60
39	BF	101	ARG	NE-CZ-NH2	8.09	124.34	120.30
1	AA	821	G	N3-C2-N2	8.08	125.56	119.90
35	BB	867	C	N3-C4-N4	8.08	123.66	118.00
35	BB	995	C	N3-C4-C5	-8.08	118.67	121.90
35	BB	1428	C	N1-C2-N3	-8.08	113.54	119.20
35	BB	2235	G	N3-C2-N2	8.08	125.56	119.90
35	BB	2581	G	N1-C2-N3	-8.08	119.05	123.90
35	BB	2838	G	O4'-C1'-N9	8.08	114.67	108.20
1	AA	51	A	C4-C5-C6	8.08	121.04	117.00
1	AA	1441	A	C5-C6-N1	-8.08	113.66	117.70
35	BB	91	A	C5-C6-N6	-8.08	117.24	123.70
35	BB	786	C	P-O3'-C3'	-8.08	110.00	119.70
35	BB	218	A	C4'-C3'-C2'	-8.08	94.52	102.60
35	BB	679	C	C5-C6-N1	8.08	125.04	121.00
35	BB	1250	G	C4-C5-N7	-8.08	107.57	110.80
35	BB	1493	C	C4-C5-C6	8.08	121.44	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1280	G	C5-C6-O6	-8.08	123.75	128.60
35	BB	1449	G	N1-C2-N3	-8.08	119.05	123.90
35	BB	220	G	O4'-C1'-N9	8.08	114.66	108.20
1	AA	275	G	C6-C5-N7	-8.08	125.56	130.40
1	AA	581	G	N3-C2-N2	8.08	125.55	119.90
34	BA	41	G	N3-C4-C5	-8.08	124.56	128.60
35	BB	696	G	C6-N1-C2	8.08	129.95	125.10
35	BB	833	A	C5-C6-N1	-8.08	113.66	117.70
35	BB	937	C	O4'-C1'-N1	8.08	114.66	108.20
35	BB	1095	A	C5-C6-N1	-8.08	113.66	117.70
35	BB	1644	C	C6-N1-C2	-8.08	117.07	120.30
1	AA	275	G	N1-C6-O6	8.07	124.74	119.90
35	BB	1661	G	O4'-C1'-N9	8.07	114.66	108.20
1	AA	1189	U	N1-C2-O2	-8.07	117.15	122.80
35	BB	384	A	C5-C6-N1	-8.07	113.66	117.70
35	BB	2439	A	C8-N9-C4	-8.07	102.57	105.80
35	BB	2800	A	C6-C5-N7	-8.07	126.65	132.30
1	AA	246	A	C4-C5-C6	8.07	121.04	117.00
1	AA	454	G	N1-C2-N3	-8.07	119.06	123.90
1	AA	755	G	N1-C6-O6	8.07	124.74	119.90
35	BB	858	G	N1-C2-N3	-8.07	119.06	123.90
35	BB	2497	A	C2-N3-C4	-8.07	106.56	110.60
35	BB	2787	C	N3-C4-N4	8.07	123.65	118.00
1	AA	1232	U	C5-C6-N1	8.07	126.73	122.70
28	B3	51	ARG	N-CA-CB	8.07	125.12	110.60
35	BB	1537	G	C5-N7-C8	8.07	108.33	104.30
35	BB	1886	U	N1-C2-N3	-8.07	110.06	114.90
1	AA	754	C	C5-C4-N4	-8.07	114.55	120.20
1	AA	885	G	N1-C6-O6	8.07	124.74	119.90
35	BB	685	A	C5-C6-N6	-8.07	117.25	123.70
34	BA	4	C	C6-N1-C2	8.07	123.53	120.30
34	BA	71	C	C4-C5-C6	8.07	121.43	117.40
35	BB	26	G	C6-C5-N7	-8.07	125.56	130.40
35	BB	69	C	C2-N3-C4	8.07	123.93	119.90
35	BB	699	A	N3-C4-C5	-8.07	121.15	126.80
35	BB	1910	G	N3-C2-N2	8.07	125.55	119.90
35	BB	2252	G	O4'-C1'-N9	8.07	114.65	108.20
35	BB	2529	G	N1-C2-N3	-8.07	119.06	123.90
1	AA	108	G	O4'-C1'-N9	8.06	114.65	108.20
35	BB	395	U	C5-C4-O4	-8.06	121.06	125.90
1	AA	166	U	C5-C4-O4	-8.06	121.06	125.90
1	AA	1369	C	O4'-C1'-N1	8.06	114.65	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	298	G	C4-C5-C6	8.06	123.64	118.80
35	BB	621	A	C6-C5-N7	-8.06	126.66	132.30
35	BB	2083	G	N7-C8-N9	8.06	117.13	113.10
35	BB	2895	G	N3-C4-C5	-8.06	124.57	128.60
35	BB	2668	G	C4-C5-C6	8.06	123.64	118.80
35	BB	2771	C	O4'-C1'-N1	8.06	114.65	108.20
35	BB	29	U	N3-C4-O4	8.06	125.04	119.40
1	AA	362	G	O4'-C1'-N9	8.06	114.65	108.20
1	AA	1453	G	C5-C6-N1	-8.06	107.47	111.50
35	BB	1168	G	C8-N9-C4	-8.06	103.17	106.40
1	AA	1253	G	C8-N9-C4	8.06	109.62	106.40
35	BB	708	G	N7-C8-N9	-8.06	109.07	113.10
35	BB	921	C	C2-N3-C4	8.06	123.93	119.90
1	AA	1298	U	C5'-C4'-O4'	8.06	118.77	109.10
35	BB	24	G	O4'-C1'-N9	8.06	114.65	108.20
35	BB	1455	G	N1-C6-O6	8.06	124.74	119.90
35	BB	1890	A	C6-C5-N7	-8.06	126.66	132.30
35	BB	2144	G	O4'-C1'-N9	8.06	114.65	108.20
1	AA	205	A	C5-C6-N6	-8.05	117.26	123.70
1	AA	890	G	C6-N1-C2	8.05	129.93	125.10
35	BB	696	G	C6-C5-N7	-8.06	125.57	130.40
35	BB	1913	A	N3-C4-C5	-8.06	121.16	126.80
1	AA	228	A	C4-C5-C6	8.05	121.03	117.00
1	AA	433	G	O4'-C1'-N9	8.05	114.64	108.20
1	AA	1394	A	N1-C6-N6	8.05	123.43	118.60
35	BB	214	G	O4'-C1'-N9	8.05	114.64	108.20
35	BB	1661	G	C2-N3-C4	8.05	115.93	111.90
35	BB	2034	U	N1-C2-O2	8.05	128.44	122.80
1	AA	1340	A	C5-C6-N6	-8.05	117.26	123.70
35	BB	891	G	N1-C6-O6	8.05	124.73	119.90
1	AA	1080	A	C4-C5-N7	8.05	114.72	110.70
2	AB	136	ARG	NE-CZ-NH1	8.05	124.33	120.30
35	BB	864	G	N1-C6-O6	8.05	124.73	119.90
34	BA	39	A	C2-N3-C4	8.05	114.62	110.60
35	BB	455	C	N3-C4-C5	-8.05	118.68	121.90
35	BB	892	A	N3-C4-C5	-8.05	121.16	126.80
35	BB	2317	A	N3-C4-C5	-8.05	121.16	126.80
35	BB	2391	G	C5-N7-C8	8.05	108.33	104.30
1	AA	922	G	C6-C5-N7	-8.05	125.57	130.40
1	AA	38	G	C5-C6-N1	-8.05	107.48	111.50
1	AA	39	G	C5-C6-O6	-8.05	123.77	128.60
1	AA	1058	G	N1-C6-O6	8.05	124.73	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1192	C	N3-C4-N4	8.05	123.63	118.00
1	AA	1488	G	N3-C2-N2	8.05	125.53	119.90
35	BB	1816	C	C2-N1-C1'	8.05	127.65	118.80
35	BB	1921	G	N9-C4-C5	8.05	108.62	105.40
1	AA	136	C	C5-C4-N4	-8.04	114.57	120.20
1	AA	293	G	C5-N7-C8	8.04	108.32	104.30
35	BB	1552	A	P-O3'-C3'	-8.05	110.05	119.70
1	AA	305	G	C5'-C4'-O4'	8.04	118.75	109.10
1	AA	540	G	N1-C6-O6	8.04	124.73	119.90
9	AI	108	ARG	NE-CZ-NH1	8.05	124.32	120.30
35	BB	947	A	C6-C5-N7	-8.05	126.67	132.30
1	AA	1170	A	C4'-C3'-C2'	-8.04	94.56	102.60
22	AV	61	C	O4'-C1'-N1	8.04	114.64	108.20
35	BB	1040	A	C2-N3-C4	-8.04	106.58	110.60
35	BB	1421	G	C5-C6-O6	-8.05	123.77	128.60
35	BB	1310	G	C5-C6-N1	-8.04	107.48	111.50
35	BB	1461	C	N3-C4-N4	8.04	123.63	118.00
35	BB	2597	G	O4'-C1'-N9	8.04	114.64	108.20
1	AA	1112	C	C6-N1-C2	-8.04	117.08	120.30
1	AA	1260	G	N1-C6-O6	8.04	124.72	119.90
1	AA	1314	C	N3-C4-C5	-8.04	118.68	121.90
8	AH	127	TYR	CB-CG-CD2	8.04	125.83	121.00
35	BB	35	G	C5-C6-O6	-8.04	123.78	128.60
35	BB	968	C	N3-C4-N4	8.04	123.63	118.00
35	BB	1764	C	O4'-C1'-N1	8.04	114.63	108.20
35	BB	230	G	N9-C4-C5	-8.04	102.18	105.40
35	BB	282	A	C5-N7-C8	8.04	107.92	103.90
35	BB	737	C	N3-C4-C5	-8.04	118.68	121.90
35	BB	906	U	N3-C4-C5	-8.04	109.78	114.60
35	BB	1633	G	C5-N7-C8	8.04	108.32	104.30
35	BB	2027	G	C8-N9-C4	8.04	109.62	106.40
1	AA	632	U	P-O3'-C3'	8.04	129.34	119.70
35	BB	1300	G	C6-C5-N7	-8.04	125.58	130.40
35	BB	2839	G	N1-C2-N3	-8.04	119.08	123.90
40	BG	108	PHE	CB-CG-CD1	-8.04	115.17	120.80
35	BB	1786	A	C5-N7-C8	8.04	107.92	103.90
35	BB	1811	G	N1-C6-O6	8.04	124.72	119.90
54	BU	79	ALA	N-CA-CB	8.04	121.35	110.10
1	AA	85	U	C2-N3-C4	8.03	131.82	127.00
35	BB	112	U	O4'-C1'-N1	8.03	114.63	108.20
35	BB	474	G	N9-C4-C5	-8.03	102.19	105.40
35	BB	516	C	O4'-C1'-N1	8.03	114.63	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1172	C	O4'-C1'-N1	8.04	114.63	108.20
35	BB	1527	G	N1-C2-N3	-8.04	119.08	123.90
35	BB	1569	A	C5'-C4'-C3'	-8.04	103.14	116.00
1	AA	204	G	O4'-C1'-N9	8.03	114.62	108.20
1	AA	686	U	C4-C5-C6	8.03	124.52	119.70
1	AA	732	C	O4'-C1'-N1	8.03	114.63	108.20
35	BB	1632	A	N1-C6-N6	8.03	123.42	118.60
35	BB	2069	G	N9-C4-C5	-8.03	102.19	105.40
35	BB	4	U	C5-C4-O4	-8.03	121.08	125.90
35	BB	683	U	N1-C2-N3	8.03	119.72	114.90
35	BB	1058	U	N1-C2-O2	-8.03	117.18	122.80
35	BB	1107	G	C2-N3-C4	8.03	115.92	111.90
35	BB	2013	A	C5-C6-N1	-8.03	113.69	117.70
35	BB	2274	A	C5-C6-N1	-8.03	113.68	117.70
35	BB	2397	G	C4-C5-N7	8.03	114.01	110.80
35	BB	2509	G	C5-C6-O6	-8.03	123.78	128.60
1	AA	151	A	C2-N3-C4	8.03	114.61	110.60
1	AA	1400	C	C2-N1-C1'	8.03	127.63	118.80
1	AA	1534	A	C2-N3-C4	-8.03	106.58	110.60
35	BB	345	A	O4'-C1'-N9	8.03	114.62	108.20
35	BB	1420	A	C4-C5-C6	8.03	121.02	117.00
1	AA	380	G	N1-C2-N3	-8.03	119.08	123.90
35	BB	449	A	C6-C5-N7	-8.03	126.68	132.30
35	BB	2128	G	N1-C6-O6	8.03	124.72	119.90
1	AA	1151	A	N3-C4-N9	8.03	133.82	127.40
26	B1	7	ARG	NE-CZ-NH2	-8.03	116.29	120.30
35	BB	186	G	N3-C2-N2	8.03	125.52	119.90
35	BB	78	U	C2-N3-C4	-8.03	122.19	127.00
35	BB	924	G	N1-C2-N3	-8.03	119.08	123.90
35	BB	1498	C	O4'-C4'-C3'	-8.03	95.97	104.00
35	BB	2445	G	O4'-C1'-N9	8.03	114.62	108.20
35	BB	1080	A	C5-N7-C8	8.03	107.91	103.90
37	BD	128	ARG	NE-CZ-NH1	8.03	124.31	120.30
41	BH	132	PHE	CB-CG-CD2	-8.03	115.18	120.80
1	AA	55	A	C8-N9-C4	-8.02	102.59	105.80
1	AA	271	C	O4'-C1'-N1	8.02	114.62	108.20
1	AA	733	G	N3-C2-N2	8.02	125.52	119.90
1	AA	1060	U	O4'-C1'-N1	8.02	114.62	108.20
35	BB	2865	U	O4'-C1'-N1	8.02	114.62	108.20
1	AA	1299	A	N3-C4-C5	-8.02	121.19	126.80
35	BB	539	G	N9-C4-C5	-8.02	102.19	105.40
35	BB	1307	A	C5-C6-N6	-8.02	117.28	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1328	A	O4'-C1'-N9	8.02	114.62	108.20
35	BB	1751	U	C5-C4-O4	-8.02	121.09	125.90
35	BB	1925	C	P-O5'-C5'	8.02	133.74	120.90
35	BB	1960	A	O4'-C1'-N9	8.02	114.62	108.20
35	BB	2485	G	C4-C5-C6	8.02	123.61	118.80
52	BS	8	ARG	NE-CZ-NH1	8.02	124.31	120.30
1	AA	298	A	N9-C4-C5	8.02	109.01	105.80
1	AA	1099	G	C6-N1-C2	8.02	129.91	125.10
1	AA	1138	G	N9-C4-C5	8.02	108.61	105.40
1	AA	1181	G	N9-C1'-C2'	-8.02	103.18	112.00
35	BB	53	A	N1-C6-N6	8.02	123.41	118.60
35	BB	117	G	N1-C6-O6	8.02	124.71	119.90
35	BB	1392	A	C4-C5-C6	8.02	121.01	117.00
35	BB	2226	C	O4'-C1'-N1	8.02	114.62	108.20
1	AA	1461	G	N1-C6-O6	8.02	124.71	119.90
35	BB	53	A	C4-C5-N7	-8.02	106.69	110.70
35	BB	512	G	N3-C2-N2	8.02	125.51	119.90
35	BB	2609	U	C5'-C4'-O4'	8.02	118.72	109.10
35	BB	2701	U	C6-N1-C2	-8.02	116.19	121.00
1	AA	770	C	N3-C2-O2	8.02	127.51	121.90
21	AU	34	ARG	NE-CZ-NH1	8.02	124.31	120.30
35	BB	170	U	C5-C4-O4	-8.02	121.09	125.90
35	BB	389	G	N3-C2-N2	8.02	125.51	119.90
35	BB	615	U	N3-C4-O4	8.02	125.01	119.40
35	BB	1483	G	N7-C8-N9	-8.02	109.09	113.10
35	BB	2396	G	O4'-C1'-N9	8.02	114.61	108.20
1	AA	386	C	C2-N1-C1'	8.02	127.62	118.80
1	AA	895	G	N3-C2-N2	8.02	125.51	119.90
25	B0	56	ARG	NE-CZ-NH2	-8.02	116.29	120.30
35	BB	2432	A	C4-C5-C6	8.02	121.01	117.00
35	BB	2832	U	P-O3'-C3'	8.02	129.32	119.70
40	BG	74	MET	CG-SD-CE	-8.02	87.38	100.20
1	AA	104	G	O4'-C1'-N9	8.01	114.61	108.20
26	B1	52	ARG	NE-CZ-NH2	8.01	124.31	120.30
35	BB	74	A	N1-C6-N6	8.01	123.41	118.60
35	BB	2800	A	O4'-C1'-N9	8.01	114.61	108.20
34	BA	35	C	O4'-C1'-N1	8.01	114.61	108.20
35	BB	179	C	O4'-C1'-N1	8.01	114.61	108.20
35	BB	1101	U	N1-C2-O2	-8.01	117.19	122.80
35	BB	2043	C	N3-C4-N4	8.01	123.61	118.00
35	BB	2236	U	N3-C4-C5	-8.01	109.79	114.60
36	BC	211	ARG	NE-CZ-NH1	8.01	124.31	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	14	U	N3-C4-O4	8.01	125.01	119.40
1	AA	465	A	N7-C8-N9	-8.01	109.80	113.80
35	BB	492	A	C5-C6-N1	-8.01	113.70	117.70
1	AA	169	C	N3-C4-N4	8.01	123.60	118.00
34	BA	85	G	N9-C4-C5	-8.01	102.20	105.40
35	BB	131	A	C5-N7-C8	8.01	107.90	103.90
35	BB	619	G	C6-C5-N7	-8.01	125.60	130.40
35	BB	1566	A	C1'-O4'-C4'	8.01	116.31	109.90
35	BB	2345	G	C4-C5-C6	8.01	123.60	118.80
1	AA	76	G	N1-C2-N3	-8.00	119.10	123.90
1	AA	204	G	C4-C5-N7	-8.00	107.60	110.80
1	AA	1235	U	C4-C5-C6	8.00	124.50	119.70
1	AA	1288	A	C4-C5-C6	8.00	121.00	117.00
1	AA	1484	C	N3-C4-C5	-8.00	118.70	121.90
35	BB	189	G	N1-C2-N2	-8.00	109.00	116.20
35	BB	276	U	N3-C4-O4	8.00	125.00	119.40
35	BB	1365	A	N7-C8-N9	8.00	117.80	113.80
35	BB	1846	G	O4'-C1'-N9	8.00	114.60	108.20
35	BB	261	G	O4'-C1'-N9	8.00	114.60	108.20
35	BB	947	A	C5-C6-N6	-8.00	117.30	123.70
1	AA	351	G	C6-C5-N7	-8.00	125.60	130.40
35	BB	906	U	O4'-C1'-N1	8.00	114.60	108.20
35	BB	2312	U	N1-C2-N3	-8.00	110.10	114.90
35	BB	2683	C	C4'-C3'-C2'	-8.00	94.60	102.60
37	BD	118	PHE	CB-CG-CD2	8.00	126.40	120.80
1	AA	392	C	O4'-C1'-N1	8.00	114.60	108.20
1	AA	568	G	N9-C4-C5	-8.00	102.20	105.40
35	BB	2125	G	N1-C6-O6	8.00	124.70	119.90
35	BB	64	A	C2-N3-C4	-8.00	106.60	110.60
35	BB	293	U	O4'-C1'-N1	8.00	114.60	108.20
35	BB	661	A	N1-C6-N6	8.00	123.40	118.60
35	BB	734	A	C5-C6-N1	-8.00	113.70	117.70
35	BB	864	G	C6-N1-C2	8.00	129.90	125.10
1	AA	150	U	O4'-C1'-N1	8.00	114.60	108.20
34	BA	87	U	P-O3'-C3'	8.00	129.29	119.70
35	BB	1370	C	C5-C6-N1	7.99	125.00	121.00
35	BB	1513	U	O4'-C1'-N1	7.99	114.59	108.20
35	BB	2109	U	O4'-C1'-N1	7.99	114.59	108.20
35	BB	2506	U	C5-C6-N1	7.99	126.70	122.70
1	AA	1148	U	O4'-C1'-N1	7.99	114.59	108.20
34	BA	30	C	O4'-C1'-N1	7.99	114.59	108.20
35	BB	563	A	C5-C6-N1	-7.99	113.70	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	701	G	C6-C5-N7	-7.99	125.61	130.40
35	BB	1112	G	O4'-C1'-N9	7.99	114.59	108.20
35	BB	1705	A	C5-C6-N6	-7.99	117.31	123.70
1	AA	298	A	C4-C5-C6	7.99	121.00	117.00
1	AA	391	G	C2-N3-C4	7.99	115.90	111.90
35	BB	285	G	C6-C5-N7	-7.99	125.61	130.40
35	BB	342	A	O4'-C1'-N9	7.99	114.59	108.20
35	BB	675	A	C5-C6-N1	-7.99	113.70	117.70
35	BB	1247	A	C4-C5-C6	7.99	121.00	117.00
35	BB	2544	G	N1-C6-O6	7.99	124.69	119.90
1	AA	168	G	C4-C5-C6	7.99	123.59	118.80
1	AA	263	A	C6-C5-N7	-7.99	126.71	132.30
35	BB	743	A	N7-C8-N9	-7.99	109.81	113.80
35	BB	303	G	O4'-C1'-N9	7.99	114.59	108.20
35	BB	835	C	O4'-C1'-N1	7.99	114.59	108.20
35	BB	2268	A	C4-C5-N7	-7.99	106.71	110.70
1	AA	72	A	P-O5'-C5'	7.99	133.68	120.90
1	AA	140	U	P-O3'-C3'	-7.99	110.12	119.70
1	AA	1306	A	N1-C2-N3	-7.99	125.31	129.30
1	AA	1414	U	C5-C6-N1	7.99	126.69	122.70
35	BB	778	G	N7-C8-N9	7.99	117.09	113.10
35	BB	2866	U	C4-C5-C6	7.99	124.49	119.70
51	BR	21	ARG	NE-CZ-NH1	-7.99	116.31	120.30
1	AA	633	G	O4'-C1'-N9	7.98	114.59	108.20
1	AA	1140	C	O4'-C1'-N1	7.98	114.59	108.20
35	BB	1406	U	O4'-C1'-N1	7.98	114.59	108.20
35	BB	2495	G	C5-N7-C8	7.98	108.29	104.30
1	AA	1157	A	C4-C5-C6	7.98	120.99	117.00
34	BA	72	G	N3-C2-N2	7.98	125.49	119.90
35	BB	1037	G	O4'-C1'-N9	7.98	114.59	108.20
35	BB	2173	A	C5-C6-N6	-7.98	117.31	123.70
1	AA	299	G	C8-N9-C4	7.98	109.59	106.40
1	AA	526	C	N3-C4-N4	7.98	123.59	118.00
35	BB	183	C	N3-C4-C5	-7.98	118.71	121.90
35	BB	205	G	C4'-C3'-C2'	-7.98	94.62	102.60
35	BB	248	G	N1-C2-N3	-7.98	119.11	123.90
35	BB	296	U	O4'-C1'-N1	7.98	114.58	108.20
35	BB	157	C	C6-N1-C2	-7.98	117.11	120.30
35	BB	1279	G	N9-C4-C5	7.98	108.59	105.40
35	BB	1604	C	C5-C4-N4	-7.98	114.61	120.20
1	AA	818	G	C2-N3-C4	7.98	115.89	111.90
1	AA	900	A	O4'-C1'-N9	7.98	114.58	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	949	A	C5-C6-N1	-7.98	113.71	117.70
35	BB	445	C	N3-C4-N4	7.98	123.58	118.00
35	BB	605	G	N7-C8-N9	-7.98	109.11	113.10
35	BB	1826	G	C4-C5-C6	7.98	123.59	118.80
35	BB	2021	C	C5-C4-N4	-7.98	114.62	120.20
35	BB	825	A	C5-C6-N1	-7.98	113.71	117.70
35	BB	1067	A	C5-C6-N1	-7.98	113.71	117.70
1	AA	130	A	P-O3'-C3'	7.97	129.27	119.70
35	BB	1803	A	C6-C5-N7	-7.97	126.72	132.30
35	BB	1833	C	O4'-C1'-N1	7.97	114.58	108.20
35	BB	1847	A	C2-N3-C4	-7.97	106.61	110.60
35	BB	2452	C	P-O5'-C5'	-7.97	108.14	120.90
35	BB	2496	C	C4-C5-C6	7.97	121.39	117.40
35	BB	2765	A	N1-C2-N3	7.97	133.29	129.30
1	AA	35	G	N3-C2-N2	7.97	125.48	119.90
1	AA	364	A	C1'-O4'-C4'	7.97	116.28	109.90
1	AA	540	G	C5-C6-O6	-7.97	123.82	128.60
35	BB	1596	A	N1-C6-N6	7.97	123.38	118.60
35	BB	2082	A	O4'-C1'-N9	7.97	114.58	108.20
35	BB	2161	C	O4'-C4'-C3'	-7.97	96.03	104.00
1	AA	1368	A	C4-C5-C6	7.97	120.99	117.00
4	AD	114	ARG	NE-CZ-NH1	-7.97	116.31	120.30
1	AA	384	G	C8-N9-C4	-7.97	103.21	106.40
1	AA	1340	A	N1-C2-N3	7.97	133.28	129.30
35	BB	334	C	O4'-C1'-N1	7.97	114.58	108.20
35	BB	1982	U	O4'-C1'-N1	7.97	114.58	108.20
35	BB	2214	C	O4'-C1'-N1	7.97	114.58	108.20
35	BB	610	C	C5-C6-N1	7.97	124.98	121.00
1	AA	73	C	N3-C4-C5	-7.97	118.71	121.90
1	AA	228	A	N1-C6-N6	7.97	123.38	118.60
35	BB	696	G	C4'-C3'-C2'	-7.97	94.63	102.60
48	BO	16	ARG	NE-CZ-NH2	-7.97	116.32	120.30
1	AA	1269	A	C6-N1-C2	7.96	123.38	118.60
35	BB	175	G	N3-C2-N2	7.96	125.47	119.90
35	BB	442	G	C2-N3-C4	7.96	115.88	111.90
35	BB	1277	G	C5-N7-C8	-7.96	100.32	104.30
35	BB	1547	C	C2-N3-C4	7.96	123.88	119.90
35	BB	1583	A	N9-C4-C5	7.96	108.99	105.80
35	BB	1603	A	C5-C6-N6	-7.96	117.33	123.70
35	BB	2039	U	C5-C4-O4	-7.96	121.12	125.90
35	BB	2368	C	C6-N1-C2	-7.96	117.11	120.30
1	AA	1300	G	N7-C8-N9	-7.96	109.12	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1419	A	C5-C6-N6	-7.96	117.33	123.70
35	BB	2389	G	O4'-C1'-N9	7.96	114.57	108.20
1	AA	904	U	C6-N1-C2	7.96	125.78	121.00
35	BB	101	A	C5-C6-N6	-7.96	117.33	123.70
35	BB	1754	A	N7-C8-N9	-7.96	109.82	113.80
50	BQ	46	TYR	CG-CD2-CE2	-7.96	114.93	121.30
34	BA	13	G	N7-C8-N9	7.96	117.08	113.10
35	BB	117	G	C5-N7-C8	-7.96	100.32	104.30
35	BB	824	U	C5-C4-O4	7.96	130.68	125.90
35	BB	1618	A	N1-C2-N3	7.96	133.28	129.30
35	BB	1711	A	C5-C6-N1	-7.96	113.72	117.70
1	AA	236	A	C5-C6-N1	-7.96	113.72	117.70
1	AA	1214	C	C2-N3-C4	7.96	123.88	119.90
35	BB	596	U	C6-N1-C2	-7.96	116.22	121.00
35	BB	971	G	N1-C2-N3	-7.96	119.12	123.90
35	BB	1503	A	N1-C6-N6	7.96	123.38	118.60
35	BB	2437	G	O4'-C1'-N9	7.96	114.57	108.20
1	AA	903	G	C5-N7-C8	7.96	108.28	104.30
1	AA	1491	G	N3-C2-N2	7.96	125.47	119.90
35	BB	278	A	C4-C5-N7	-7.96	106.72	110.70
35	BB	256	A	C5-C6-N6	-7.96	117.34	123.70
35	BB	2474	U	O4'-C1'-N1	7.96	114.56	108.20
1	AA	396	C	C2-N3-C4	7.95	123.88	119.90
35	BB	175	G	O4'-C1'-N9	7.95	114.56	108.20
1	AA	922	G	C5-C6-O6	-7.95	123.83	128.60
35	BB	505	A	C6-C5-N7	-7.95	126.73	132.30
35	BB	1807	G	N3-C4-N9	-7.95	121.23	126.00
1	AA	214	C	O4'-C1'-N1	7.95	114.56	108.20
1	AA	599	C	O4'-C1'-N1	7.95	114.56	108.20
35	BB	25	U	O4'-C1'-N1	7.95	114.56	108.20
35	BB	1780	A	C6-C5-N7	-7.95	126.73	132.30
35	BB	2584	U	N3-C4-O4	7.95	124.97	119.40
35	BB	2603	G	C5'-C4'-C3'	-7.95	103.28	116.00
55	BW	57	TYR	CG-CD2-CE2	-7.95	114.94	121.30
21	AU	37	TYR	CB-CG-CD1	7.95	125.77	121.00
35	BB	682	G	C6-C5-N7	-7.95	125.63	130.40
35	BB	957	C	C2-N3-C4	7.95	123.87	119.90
35	BB	2088	A	O4'-C1'-N9	7.95	114.56	108.20
1	AA	641	U	P-O3'-C3'	7.95	129.24	119.70
1	AA	684	U	N3-C4-O4	7.95	124.96	119.40
1	AA	281	G	N3-C2-N2	7.95	125.46	119.90
35	BB	619	G	N1-C6-O6	7.95	124.67	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	905	A	N1-C6-N6	7.95	123.37	118.60
35	BB	1609	A	C6-N1-C2	7.95	123.37	118.60
35	BB	2124	G	N3-C2-N2	7.95	125.46	119.90
35	BB	2879	A	C4-C5-C6	7.95	120.97	117.00
35	BB	78	U	C5-C6-N1	7.94	126.67	122.70
35	BB	2364	C	C6-N1-C2	-7.94	117.12	120.30
1	AA	1087	G	N3-C2-N2	7.94	125.46	119.90
35	BB	2	G	N3-C2-N2	7.94	125.46	119.90
35	BB	68	G	C5-C6-O6	-7.94	123.83	128.60
35	BB	89	A	C4-C5-C6	7.94	120.97	117.00
35	BB	297	G	C5-C6-N1	-7.94	107.53	111.50
35	BB	1979	U	N3-C2-O2	7.94	127.76	122.20
35	BB	2534	A	N9-C4-C5	-7.94	102.62	105.80
1	AA	644	U	N3-C4-O4	7.94	124.96	119.40
1	AA	664	G	N1-C2-N3	-7.94	119.14	123.90
1	AA	950	U	N3-C4-C5	7.94	119.36	114.60
1	AA	1470	U	N3-C4-C5	-7.94	109.84	114.60
35	BB	337	C	O4'-C1'-N1	7.94	114.55	108.20
35	BB	2820	A	N3-C4-C5	-7.94	121.24	126.80
1	AA	494	G	C1'-O4'-C4'	7.94	116.25	109.90
35	BB	1714	U	C4-C5-C6	7.94	124.46	119.70
35	BB	2730	C	O4'-C1'-N1	7.94	114.55	108.20
1	AA	278	G	C5-C6-N1	-7.94	107.53	111.50
1	AA	799	G	C8-N9-C4	-7.94	103.22	106.40
1	AA	824	G	N1-C6-O6	7.94	124.66	119.90
1	AA	1151	A	O4'-C1'-N9	7.94	114.55	108.20
35	BB	771	G	C8-N9-C1'	7.94	137.32	127.00
35	BB	1818	U	O4'-C4'-C3'	7.94	112.45	106.10
35	BB	2071	A	N1-C2-N3	7.94	133.27	129.30
1	AA	1395	C	N1-C2-O2	7.94	123.66	118.90
35	BB	2571	U	N3-C4-O4	7.94	124.95	119.40
1	AA	31	G	C5-C6-N1	-7.93	107.53	111.50
1	AA	829	G	C4-C5-N7	7.93	113.97	110.80
35	BB	418	C	C2-N3-C4	7.93	123.87	119.90
35	BB	431	U	O4'-C1'-N1	7.93	114.55	108.20
35	BB	607	U	C3'-C2'-C1'	7.93	107.85	101.50
35	BB	2336	A	C5-C6-N1	-7.93	113.73	117.70
1	AA	266	G	C5-N7-C8	7.93	108.27	104.30
1	AA	281	G	O4'-C1'-N9	7.93	114.55	108.20
1	AA	535	A	C8-N9-C4	-7.93	102.63	105.80
1	AA	1064	G	N1-C2-N3	-7.93	119.14	123.90
35	BB	279	A	C6-C5-N7	-7.93	126.75	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	326	G	N1-C6-O6	7.93	124.66	119.90
35	BB	798	G	N3-C4-N9	-7.93	121.24	126.00
35	BB	821	A	P-O3'-C3'	7.93	129.22	119.70
35	BB	1202	G	C5-C6-O6	-7.93	123.84	128.60
35	BB	1679	A	C8-N9-C4	-7.93	102.63	105.80
1	AA	357	G	N1-C2-N3	-7.93	119.14	123.90
1	AA	574	A	P-O3'-C3'	7.93	129.22	119.70
1	AA	847	G	C4-C5-N7	7.93	113.97	110.80
35	BB	516	C	N3-C2-O2	7.93	127.45	121.90
35	BB	2400	G	C5-C6-O6	-7.93	123.84	128.60
1	AA	59	A	C5-C6-N1	-7.93	113.73	117.70
1	AA	520	A	N9-C4-C5	7.93	108.97	105.80
1	AA	896	C	C5-C4-N4	-7.93	114.65	120.20
1	AA	1013	G	O4'-C1'-N9	7.93	114.54	108.20
35	BB	411	G	C5-C6-O6	-7.93	123.84	128.60
35	BB	1011	G	C2-N3-C4	7.93	115.86	111.90
35	BB	2273	A	C4-C5-C6	7.93	120.97	117.00
35	BB	2417	C	N3-C4-N4	7.93	123.55	118.00
35	BB	2663	G	N1-C6-O6	7.93	124.66	119.90
35	BB	1418	G	N3-C2-N2	7.93	125.45	119.90
35	BB	2570	G	N1-C6-O6	7.93	124.66	119.90
1	AA	1486	G	N1-C6-O6	7.93	124.66	119.90
22	AV	39	G	C4-C5-C6	7.93	123.56	118.80
35	BB	26	G	C1'-O4'-C4'	7.93	116.24	109.90
35	BB	1396	U	N3-C2-O2	-7.93	116.65	122.20
35	BB	1641	A	C5-C6-N1	-7.93	113.74	117.70
35	BB	1483	G	N1-C6-O6	7.92	124.66	119.90
35	BB	1530	G	C5-C6-O6	-7.92	123.84	128.60
35	BB	2847	U	C6-N1-C2	-7.92	116.25	121.00
1	AA	222	C	N3-C4-N4	7.92	123.55	118.00
3	AC	41	TYR	CB-CG-CD2	-7.92	116.25	121.00
35	BB	1502	A	C5-C6-N6	-7.92	117.36	123.70
35	BB	1821	A	C5-C6-N6	-7.92	117.36	123.70
35	BB	2639	A	C5-N7-C8	7.92	107.86	103.90
1	AA	535	A	C4-C5-C6	7.92	120.96	117.00
1	AA	596	A	C5-N7-C8	7.92	107.86	103.90
1	AA	883	C	O4'-C1'-N1	7.92	114.54	108.20
34	BA	51	G	C5-C6-O6	-7.92	123.85	128.60
35	BB	862	G	C4'-C3'-C2'	-7.92	94.68	102.60
35	BB	873	C	C5-C4-N4	-7.92	114.66	120.20
35	BB	1161	C	C5-C4-N4	-7.92	114.66	120.20
35	BB	1170	C	O4'-C1'-N1	7.92	114.54	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1174	U	C2-N3-C4	-7.92	122.25	127.00
35	BB	1419	A	N1-C2-N3	7.92	133.26	129.30
35	BB	1536	C	N3-C4-C5	-7.92	118.73	121.90
35	BB	2057	G	N1-C2-N3	-7.92	119.15	123.90
25	B0	49	ARG	NE-CZ-NH1	-7.92	116.34	120.30
35	BB	538	A	C5-N7-C8	7.92	107.86	103.90
1	AA	600	A	C5-C6-N6	-7.92	117.36	123.70
35	BB	1298	C	C2-N3-C4	7.92	123.86	119.90
35	BB	2454	G	C5-C6-O6	-7.92	123.85	128.60
35	BB	443	A	O4'-C1'-N9	7.92	114.53	108.20
35	BB	451	U	C2-N3-C4	-7.92	122.25	127.00
35	BB	1057	A	P-O3'-C3'	-7.92	110.20	119.70
35	BB	1215	G	N3-C4-N9	-7.92	121.25	126.00
35	BB	1426	G	C5-C6-O6	-7.92	123.85	128.60
35	BB	2503	A	C2-N3-C4	-7.92	106.64	110.60
35	BB	2675	A	C8-N9-C4	-7.92	102.63	105.80
46	BM	44	ARG	NE-CZ-NH2	7.92	124.26	120.30
35	BB	1449	G	O4'-C1'-N9	7.92	114.53	108.20
1	AA	272	C	O4'-C1'-N1	7.91	114.53	108.20
1	AA	1062	U	O4'-C1'-N1	7.91	114.53	108.20
1	AA	1182	G	C5'-C4'-O4'	7.91	118.59	109.10
1	AA	1433	A	C5-C6-N1	-7.91	113.74	117.70
35	BB	309	A	C4-C5-N7	-7.91	106.74	110.70
35	BB	509	C	C3'-C2'-C1'	7.91	107.83	101.50
35	BB	2477	U	N1-C2-O2	-7.91	117.26	122.80
35	BB	2484	G	N1-C6-O6	7.91	124.65	119.90
1	AA	278	G	N1-C2-N2	-7.91	109.08	116.20
1	AA	1035	A	C4-C5-C6	7.91	120.96	117.00
35	BB	288	U	O4'-C1'-N1	7.91	114.53	108.20
35	BB	329	G	N7-C8-N9	7.91	117.06	113.10
35	BB	1801	A	C8-N9-C4	-7.91	102.64	105.80
35	BB	2150	C	O4'-C1'-N1	7.91	114.53	108.20
1	AA	21	G	C5-C6-O6	-7.91	123.85	128.60
1	AA	228	A	C6-C5-N7	-7.91	126.76	132.30
1	AA	350	G	N1-C2-N3	-7.91	119.15	123.90
1	AA	700	G	N7-C8-N9	-7.91	109.14	113.10
1	AA	1164	G	C5-C6-N1	-7.91	107.55	111.50
35	BB	17	G	N3-C2-N2	7.91	125.44	119.90
35	BB	1055	G	C5-C6-N1	7.91	115.45	111.50
1	AA	222	C	C6-N1-C2	-7.91	117.14	120.30
1	AA	597	G	O4'-C1'-N9	7.91	114.53	108.20
34	BA	2	G	N1-C6-O6	7.91	124.64	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	42	A	N1-C6-N6	7.91	123.34	118.60
35	BB	158	U	O4'-C1'-N1	7.91	114.53	108.20
35	BB	508	A	C6-C5-N7	-7.91	126.76	132.30
35	BB	909	A	N9-C4-C5	-7.91	102.64	105.80
35	BB	1564	C	C5-C4-N4	-7.91	114.66	120.20
35	BB	1566	A	C6-N1-C2	7.91	123.34	118.60
35	BB	1631	G	C6-C5-N7	-7.91	125.66	130.40
35	BB	1854	A	C5-C6-N1	-7.91	113.75	117.70
35	BB	2360	G	N3-C2-N2	7.91	125.44	119.90
1	AA	652	U	P-O3'-C3'	-7.91	110.21	119.70
1	AA	755	G	O4'-C1'-N9	7.91	114.53	108.20
1	AA	888	G	C6-N1-C2	7.91	129.84	125.10
35	BB	1482	G	C6-C5-N7	-7.91	125.66	130.40
35	BB	2750	A	N7-C8-N9	-7.91	109.85	113.80
1	AA	706	A	N9-C4-C5	7.91	108.96	105.80
1	AA	777	A	C5-C6-N1	-7.91	113.75	117.70
1	AA	1053	G	C8-N9-C1'	7.91	137.28	127.00
34	BA	32	U	C5-C6-N1	7.91	126.65	122.70
34	BA	47	C	C5-C4-N4	-7.91	114.67	120.20
35	BB	646	U	N3-C4-C5	-7.91	109.86	114.60
1	AA	525	C	C4-C5-C6	7.90	121.35	117.40
1	AA	749	A	N1-C2-N3	7.90	133.25	129.30
1	AA	849	G	C5-C6-N1	-7.90	107.55	111.50
1	AA	462	G	C2-N3-C4	7.90	115.85	111.90
1	AA	816	A	C6-N1-C2	7.90	123.34	118.60
1	AA	1329	A	C5-C6-N6	-7.90	117.38	123.70
35	BB	85	G	O4'-C1'-N9	7.90	114.52	108.20
35	BB	460	A	C5-C6-N1	-7.90	113.75	117.70
35	BB	1641	A	C4-C5-C6	7.90	120.95	117.00
38	BE	117	ARG	NE-CZ-NH1	7.90	124.25	120.30
1	AA	472	U	O4'-C1'-N1	7.90	114.52	108.20
1	AA	701	U	O4'-C1'-N1	7.90	114.52	108.20
1	AA	839	C	O4'-C1'-N1	7.90	114.52	108.20
1	AA	931	C	C5-C6-N1	7.90	124.95	121.00
13	AM	78	ARG	NE-CZ-NH2	-7.90	116.35	120.30
35	BB	653	U	N3-C4-C5	-7.90	109.86	114.60
35	BB	2099	U	N1-C2-O2	-7.90	117.27	122.80
1	AA	595	A	N1-C2-N3	7.90	133.25	129.30
12	AL	65	TYR	CB-CG-CD2	-7.90	116.26	121.00
35	BB	1149	G	O4'-C1'-N9	7.90	114.52	108.20
35	BB	1211	C	N3-C4-N4	7.90	123.53	118.00
35	BB	2369	A	O4'-C1'-N9	7.90	114.52	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	507	C	P-O3'-C3'	7.90	129.18	119.70
1	AA	593	U	O4'-C1'-N1	7.90	114.52	108.20
35	BB	264	C	C5-C4-N4	-7.90	114.67	120.20
35	BB	1703	G	N1-C6-O6	7.90	124.64	119.90
35	BB	2006	C	C6-N1-C2	7.90	123.46	120.30
35	BB	2862	G	C6-C5-N7	-7.90	125.66	130.40
1	AA	833	G	C5-N7-C8	7.90	108.25	104.30
34	BA	11	C	P-O3'-C3'	7.90	129.18	119.70
35	BB	115	C	C5-C6-N1	7.90	124.95	121.00
35	BB	1084	A	C5-N7-C8	7.90	107.85	103.90
35	BB	1365	A	C8-N9-C4	-7.90	102.64	105.80
35	BB	1383	A	P-O3'-C3'	7.90	129.18	119.70
35	BB	1952	A	C4-C5-C6	7.90	120.95	117.00
35	BB	2254	C	C5-C6-N1	-7.90	117.05	121.00
1	AA	6	G	N1-C2-N3	-7.89	119.16	123.90
22	AV	65	U	O4'-C1'-N1	7.89	114.52	108.20
35	BB	96	C	C5-C4-N4	-7.89	114.67	120.20
35	BB	642	U	C6-N1-C2	7.89	125.74	121.00
35	BB	1054	A	O4'-C1'-N9	7.89	114.52	108.20
1	AA	1166	G	N7-C8-N9	-7.89	109.15	113.10
35	BB	183	C	O4'-C1'-N1	7.89	114.51	108.20
35	BB	1287	A	N1-C6-N6	7.89	123.33	118.60
1	AA	1075	U	C5-C4-O4	-7.89	121.17	125.90
35	BB	2116	G	N3-C2-N2	7.89	125.42	119.90
35	BB	2799	A	N1-C6-N6	7.89	123.33	118.60
1	AA	98	A	O4'-C1'-N9	7.89	114.51	108.20
1	AA	612	C	N3-C4-C5	-7.89	118.74	121.90
35	BB	1748	C	C2-N3-C4	7.89	123.84	119.90
35	BB	2733	A	C2-N3-C4	-7.89	106.66	110.60
35	BB	980	A	C6-N1-C2	-7.89	113.87	118.60
1	AA	617	G	C2-N3-C4	-7.89	107.96	111.90
1	AA	1470	U	N3-C2-O2	7.89	127.72	122.20
35	BB	13	A	C5-N7-C8	7.89	107.84	103.90
35	BB	697	G	O4'-C1'-N9	7.89	114.51	108.20
35	BB	1974	C	N3-C4-C5	-7.89	118.75	121.90
35	BB	202	U	P-O3'-C3'	7.88	129.16	119.70
35	BB	752	A	C6-C5-N7	-7.88	126.78	132.30
35	BB	874	G	C5-C6-O6	-7.88	123.87	128.60
35	BB	1814	G	C2-N3-C4	7.88	115.84	111.90
35	BB	2270	A	O4'-C1'-N9	7.88	114.51	108.20
35	BB	2527	C	O4'-C1'-N1	7.88	114.51	108.20
34	BA	59	A	C2-N3-C4	7.88	114.54	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	206	C	C5-C4-N4	-7.88	114.68	120.20
1	AA	1252	A	C4-C5-C6	7.88	120.94	117.00
1	AA	1390	U	O4'-C1'-N1	7.88	114.51	108.20
1	AA	1409	C	N3-C4-N4	7.88	123.52	118.00
9	AI	11	ARG	NE-CZ-NH1	7.88	124.24	120.30
22	AV	62	C	O4'-C1'-N1	7.88	114.50	108.20
35	BB	1005	C	C2-N1-C1'	7.88	127.47	118.80
35	BB	1158	C	N3-C4-N4	7.88	123.52	118.00
35	BB	2080	A	C4-C5-C6	7.88	120.94	117.00
35	BB	2154	A	C4-C5-C6	7.88	120.94	117.00
35	BB	2281	A	C6-N1-C2	-7.88	113.87	118.60
35	BB	2426	A	C5-N7-C8	7.88	107.84	103.90
45	BL	107	PHE	CB-CG-CD2	-7.88	115.28	120.80
35	BB	1470	A	C5-C6-N1	-7.88	113.76	117.70
1	AA	1280	A	C2-N3-C4	-7.88	106.66	110.60
22	AV	11	C	O4'-C1'-N1	7.88	114.50	108.20
35	BB	830	G	C4-C5-C6	7.88	123.53	118.80
35	BB	1475	G	N3-C4-C5	-7.88	124.66	128.60
35	BB	2129	C	O4'-C1'-N1	7.88	114.50	108.20
35	BB	2275	C	C4-C5-C6	7.88	121.34	117.40
35	BB	2334	U	P-O3'-C3'	7.88	129.15	119.70
35	BB	2684	U	C3'-C2'-C1'	7.88	107.80	101.50
1	AA	1471	U	C1'-O4'-C4'	7.88	116.20	109.90
35	BB	548	G	O4'-C1'-N9	7.88	114.50	108.20
35	BB	2160	C	C4-C5-C6	-7.88	113.46	117.40
1	AA	597	G	P-O3'-C3'	-7.88	110.25	119.70
1	AA	1421	G	C5-C6-N1	-7.88	107.56	111.50
1	AA	1530	G	O4'-C1'-N9	7.88	114.50	108.20
35	BB	1311	G	C5-C6-N1	-7.88	107.56	111.50
1	AA	60	A	C8-N9-C4	-7.87	102.65	105.80
1	AA	529	G	N9-C4-C5	-7.87	102.25	105.40
1	AA	588	G	O4'-C1'-N9	7.87	114.50	108.20
35	BB	536	G	C5-C6-O6	-7.87	123.88	128.60
35	BB	1284	A	N9-C4-C5	7.87	108.95	105.80
35	BB	1509	A	P-O3'-C3'	7.87	129.15	119.70
35	BB	1792	G	N7-C8-N9	-7.87	109.16	113.10
35	BB	2138	G	O4'-C1'-N9	7.87	114.50	108.20
35	BB	2538	C	O4'-C1'-N1	7.87	114.50	108.20
35	BB	2678	C	C6-N1-C2	-7.87	117.15	120.30
1	AA	669	G	O4'-C1'-N9	7.87	114.50	108.20
1	AA	946	A	C4-C5-C6	7.87	120.94	117.00
22	AV	64	C	O4'-C1'-N1	7.87	114.50	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	241	A	C2-N3-C4	-7.87	106.66	110.60
35	BB	458	G	C2-N3-C4	7.87	115.84	111.90
35	BB	796	C	C1'-O4'-C4'	7.87	116.20	109.90
35	BB	1266	G	C6-C5-N7	-7.87	125.68	130.40
35	BB	1409	U	N1-C2-N3	-7.87	110.18	114.90
35	BB	2594	C	O4'-C1'-N1	7.87	114.50	108.20
1	AA	1015	G	O4'-C1'-N9	7.87	114.50	108.20
1	AA	1111	A	P-O3'-C3'	7.87	129.14	119.70
1	AA	1253	G	C5-C6-O6	-7.87	123.88	128.60
35	BB	567	U	C4'-C3'-C2'	-7.87	94.73	102.60
35	BB	833	A	C5-N7-C8	7.87	107.83	103.90
35	BB	890	C	N3-C4-N4	7.87	123.51	118.00
35	BB	1393	A	C5-C6-N1	-7.87	113.77	117.70
35	BB	1948	G	N1-C6-O6	-7.87	115.18	119.90
35	BB	2758	A	C5-C6-N1	7.87	121.63	117.70
46	BM	103	TYR	CB-CG-CD1	-7.87	116.28	121.00
1	AA	1253	G	C1'-O4'-C4'	7.87	116.19	109.90
35	BB	398	C	N3-C4-C5	-7.87	118.75	121.90
1	AA	312	C	C5-C4-N4	-7.87	114.69	120.20
1	AA	774	G	C5-N7-C8	7.87	108.23	104.30
1	AA	1205	U	P-O3'-C3'	7.87	129.14	119.70
35	BB	207	A	C5-C6-N6	-7.87	117.41	123.70
35	BB	746	U	C1'-O4'-C4'	-7.87	103.61	109.90
35	BB	1209	U	N3-C4-C5	-7.87	109.88	114.60
1	AA	616	G	N7-C8-N9	7.86	117.03	113.10
1	AA	1266	G	N1-C2-N3	-7.86	119.18	123.90
35	BB	542	C	C6-N1-C2	-7.86	117.16	120.30
35	BB	2447	G	O4'-C1'-N9	7.86	114.49	108.20
1	AA	1355	G	C6-C5-N7	-7.86	125.68	130.40
35	BB	297	G	C4-C5-N7	-7.86	107.66	110.80
35	BB	854	C	O4'-C1'-N1	7.86	114.49	108.20
35	BB	2813	A	C5-C6-N1	-7.86	113.77	117.70
1	AA	222	C	O4'-C1'-N1	7.86	114.49	108.20
1	AA	494	G	N1-C6-O6	7.86	124.62	119.90
35	BB	1434	A	C8-N9-C4	7.86	108.94	105.80
35	BB	1579	A	N7-C8-N9	-7.86	109.87	113.80
1	AA	157	U	O4'-C1'-N1	7.86	114.49	108.20
35	BB	706	A	C5-C6-N1	-7.86	113.77	117.70
35	BB	1417	C	N3-C4-N4	7.86	123.50	118.00
35	BB	2059	A	N1-C6-N6	7.86	123.31	118.60
35	BB	161	A	N1-C6-N6	7.86	123.31	118.60
35	BB	198	C	N3-C4-N4	7.86	123.50	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	435	C	N3-C4-C5	-7.86	118.76	121.90
35	BB	2075	U	C6-N1-C2	-7.86	116.29	121.00
1	AA	1197	A	N9-C4-C5	-7.86	102.66	105.80
35	BB	209	C	C6-N1-C2	-7.86	117.16	120.30
35	BB	880	G	O4'-C1'-N9	7.86	114.48	108.20
35	BB	942	G	N1-C6-O6	7.86	124.61	119.90
35	BB	1087	G	C5-N7-C8	-7.86	100.37	104.30
35	BB	1574	C	N3-C4-N4	7.86	123.50	118.00
35	BB	2547	A	N1-C6-N6	7.86	123.31	118.60
1	AA	714	G	N1-C2-N3	-7.85	119.19	123.90
35	BB	2279	G	C8-N9-C4	-7.85	103.26	106.40
1	AA	1280	A	C6-N1-C2	-7.85	113.89	118.60
35	BB	154	U	O4'-C1'-N1	7.85	114.48	108.20
35	BB	1268	A	N1-C6-N6	7.85	123.31	118.60
35	BB	1360	G	C5-C6-N1	7.85	115.43	111.50
35	BB	2787	C	C2-N3-C4	7.85	123.83	119.90
1	AA	83	C	C6-N1-C2	-7.85	117.16	120.30
1	AA	145	G	N1-C2-N3	-7.85	119.19	123.90
35	BB	331	C	C5-C6-N1	7.85	124.93	121.00
35	BB	1499	C	C4-C5-C6	7.85	121.33	117.40
35	BB	626	A	C4-C5-C6	7.85	120.92	117.00
35	BB	1756	G	P-O3'-C3'	7.85	129.12	119.70
35	BB	1918	A	C8-N9-C4	-7.85	102.66	105.80
35	BB	1996	C	N3-C4-N4	7.85	123.50	118.00
1	AA	261	U	C5-C4-O4	-7.85	121.19	125.90
1	AA	1150	A	C6-C5-N7	-7.85	126.81	132.30
35	BB	295	G	C3'-C2'-C1'	7.85	107.78	101.50
35	BB	1807	G	N7-C8-N9	7.85	117.02	113.10
35	BB	2826	A	C5-C6-N6	-7.85	117.42	123.70
1	AA	1406	U	C5-C6-N1	-7.85	118.78	122.70
35	BB	425	G	N3-C4-C5	7.85	132.52	128.60
35	BB	1422	G	N3-C2-N2	7.85	125.39	119.90
35	BB	2354	C	O4'-C1'-N1	7.85	114.48	108.20
35	BB	2794	C	N3-C4-C5	-7.85	118.76	121.90
1	AA	1006	G	C5-C6-O6	-7.84	123.89	128.60
35	BB	992	C	O4'-C1'-N1	7.84	114.48	108.20
35	BB	1922	G	C1'-O4'-C4'	-7.84	103.62	109.90
35	BB	2288	A	C5-C6-N6	-7.84	117.42	123.70
1	AA	159	G	C2-N3-C4	7.84	115.82	111.90
1	AA	1343	G	O4'-C1'-N9	7.84	114.47	108.20
35	BB	936	A	C4-C5-N7	-7.84	106.78	110.70
35	BB	1466	U	O4'-C1'-N1	7.84	114.47	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2129	C	C2-N3-C4	7.84	123.82	119.90
1	AA	603	U	N1-C2-O2	-7.84	117.31	122.80
22	AV	71	C	O4'-C1'-N1	7.84	114.47	108.20
30	B5	38	PHE	CB-CG-CD1	7.84	126.29	120.80
35	BB	9	G	N1-C2-N3	-7.84	119.19	123.90
35	BB	79	C	C2-N3-C4	7.84	123.82	119.90
35	BB	347	A	C5-C6-N1	-7.84	113.78	117.70
35	BB	1288	G	C6-C5-N7	-7.84	125.69	130.40
35	BB	1537	G	C6-N1-C2	7.84	129.81	125.10
35	BB	2294	G	N1-C2-N3	-7.84	119.19	123.90
35	BB	2371	G	N7-C8-N9	-7.84	109.18	113.10
35	BB	2759	G	C5-C6-O6	-7.84	123.89	128.60
35	BB	2891	U	C5-C6-N1	7.84	126.62	122.70
35	BB	1543	G	C4-C5-N7	-7.84	107.66	110.80
35	BB	1571	A	C4'-C3'-C2'	-7.84	94.76	102.60
35	BB	2664	G	C6-N1-C2	-7.84	120.40	125.10
1	AA	1450	U	C6-N1-C2	-7.84	116.30	121.00
35	BB	1140	C	C3'-C2'-C1'	-7.84	95.23	101.50
1	AA	737	C	O4'-C1'-N1	7.84	114.47	108.20
35	BB	41	C	O4'-C1'-N1	7.84	114.47	108.20
35	BB	100	U	C5-C4-O4	-7.84	121.20	125.90
35	BB	2337	G	N7-C8-N9	7.84	117.02	113.10
35	BB	2398	U	O4'-C1'-N1	7.84	114.47	108.20
35	BB	2621	G	O4'-C1'-N9	7.84	114.47	108.20
35	BB	1903	G	C5-C6-N1	7.83	115.42	111.50
1	AA	188	C	O4'-C1'-N1	7.83	114.47	108.20
1	AA	319	G	C5-C6-O6	-7.83	123.90	128.60
35	BB	1354	A	C5-C6-N6	-7.83	117.43	123.70
35	BB	1463	C	C2-N3-C4	7.83	123.82	119.90
35	BB	2321	U	O4'-C1'-N1	7.83	114.47	108.20
35	BB	2620	C	N3-C4-N4	7.83	123.48	118.00
35	BB	2682	A	O4'-C1'-N9	7.83	114.47	108.20
35	BB	2776	A	C6-C5-N7	-7.83	126.82	132.30
35	BB	503	A	C5-C6-N6	-7.83	117.44	123.70
35	BB	877	A	N1-C6-N6	7.83	123.30	118.60
52	BS	88	ARG	NE-CZ-NH2	7.83	124.22	120.30
1	AA	60	A	C4'-C3'-C2'	-7.83	94.77	102.60
35	BB	1481	U	N1-C2-O2	-7.83	117.32	122.80
35	BB	2632	A	C5-C6-N6	-7.83	117.44	123.70
1	AA	564	C	C5-C6-N1	7.83	124.91	121.00
35	BB	391	A	C5-C6-N1	-7.83	113.79	117.70
1	AA	1309	G	N1-C6-O6	7.83	124.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1961	C	N3-C4-C5	-7.83	118.77	121.90
35	BB	2009	A	N7-C8-N9	-7.83	109.89	113.80
1	AA	115	G	N3-C4-C5	-7.83	124.69	128.60
1	AA	1522	U	C5-C6-N1	7.83	126.61	122.70
1	AA	1524	C	N3-C4-C5	-7.83	118.77	121.90
35	BB	1551	A	C4'-C3'-C2'	-7.83	94.77	102.60
1	AA	516	U	O4'-C1'-N1	7.82	114.46	108.20
1	AA	1100	C	N3-C4-N4	7.82	123.48	118.00
1	AA	1143	G	N3-C4-C5	-7.82	124.69	128.60
28	B3	28	SER	N-CA-CB	7.82	122.23	110.50
35	BB	46	G	C5-C6-O6	-7.82	123.91	128.60
1	AA	1350	A	C5-C6-N6	-7.82	117.44	123.70
35	BB	1692	U	C6-N1-C2	-7.82	116.31	121.00
1	AA	177	G	C6-C5-N7	-7.82	125.71	130.40
1	AA	1347	G	C5-N7-C8	7.82	108.21	104.30
35	BB	226	A	C8-N9-C4	-7.82	102.67	105.80
35	BB	382	A	N7-C8-N9	-7.82	109.89	113.80
35	BB	1007	C	O4'-C1'-N1	7.82	114.46	108.20
35	BB	1186	G	N7-C8-N9	7.82	117.01	113.10
35	BB	1252	G	C5-C6-N1	-7.82	107.59	111.50
35	BB	1755	A	C5-C6-N6	-7.82	117.44	123.70
1	AA	1295	U	C6-N1-C2	-7.82	116.31	121.00
35	BB	169	G	N1-C2-N3	-7.82	119.21	123.90
35	BB	1614	A	C4-C5-C6	7.82	120.91	117.00
35	BB	1780	A	O4'-C1'-N9	7.82	114.46	108.20
35	BB	2077	A	N9-C4-C5	7.82	108.93	105.80
1	AA	27	G	C2-N3-C4	7.82	115.81	111.90
35	BB	314	C	C5-C6-N1	7.82	124.91	121.00
35	BB	2250	G	C5-C6-N1	-7.82	107.59	111.50
35	BB	2767	C	C4'-C3'-C2'	-7.82	94.78	102.60
1	AA	313	A	C5-C6-N1	-7.82	113.79	117.70
1	AA	376	G	C6-C5-N7	-7.82	125.71	130.40
1	AA	600	A	C8-N9-C4	7.82	108.93	105.80
1	AA	1434	A	C5-C6-N1	-7.82	113.79	117.70
19	AS	36	ARG	NE-CZ-NH1	7.81	124.21	120.30
35	BB	1054	A	C5-C6-N6	-7.81	117.45	123.70
35	BB	1961	C	N3-C4-N4	7.81	123.47	118.00
1	AA	591	U	C5-C6-N1	7.81	126.61	122.70
1	AA	1530	G	C5-C6-O6	-7.81	123.91	128.60
35	BB	557	C	N3-C2-O2	7.81	127.37	121.90
35	BB	704	G	N1-C2-N3	-7.81	119.21	123.90
35	BB	707	G	N1-C2-N2	-7.81	109.17	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1737	G	N1-C6-O6	7.81	124.59	119.90
35	BB	196	A	C5-C6-N6	-7.81	117.45	123.70
35	BB	1008	A	C4-C5-N7	-7.81	106.80	110.70
35	BB	1524	G	N3-C2-N2	7.81	125.37	119.90
35	BB	2409	G	N7-C8-N9	7.81	117.00	113.10
35	BB	2	G	O4'-C1'-N9	7.81	114.45	108.20
35	BB	383	C	N3-C4-C5	-7.81	118.78	121.90
35	BB	1355	G	O4'-C1'-N9	7.81	114.45	108.20
1	AA	1171	A	N1-C2-N3	7.81	133.20	129.30
35	BB	180	G	C6-C5-N7	-7.81	125.72	130.40
35	BB	1164	C	O4'-C1'-N1	7.81	114.45	108.20
35	BB	2063	C	N3-C2-O2	7.81	127.37	121.90
35	BB	2567	G	C6-N1-C2	-7.81	120.42	125.10
35	BB	2798	U	N3-C4-C5	-7.81	109.92	114.60
1	AA	558	G	O4'-C1'-N9	7.81	114.44	108.20
35	BB	909	A	C5-C6-N6	-7.81	117.45	123.70
35	BB	1617	C	C6-N1-C1'	-7.81	111.43	120.80
35	BB	2789	C	C5-C6-N1	-7.81	117.10	121.00
1	AA	384	G	N3-C4-C5	-7.80	124.70	128.60
1	AA	695	A	C2-N3-C4	7.80	114.50	110.60
1	AA	710	G	O4'-C1'-N9	7.80	114.44	108.20
35	BB	393	C	C6-N1-C2	-7.80	117.18	120.30
35	BB	796	C	C6-N1-C2	7.80	123.42	120.30
35	BB	1089	A	P-O5'-C5'	7.80	133.39	120.90
35	BB	2893	A	C4'-C3'-C2'	-7.80	94.80	102.60
1	AA	423	G	C2-N3-C4	7.80	115.80	111.90
35	BB	35	G	N3-C2-N2	7.80	125.36	119.90
35	BB	305	C	N1-C2-O2	7.80	123.58	118.90
1	AA	107	G	C6-C5-N7	-7.80	125.72	130.40
1	AA	374	A	C4-C5-C6	7.80	120.90	117.00
1	AA	754	C	C6-N1-C2	7.80	123.42	120.30
1	AA	966	G	C5-C6-N1	-7.80	107.60	111.50
34	BA	93	C	C2-N3-C4	7.80	123.80	119.90
35	BB	887	U	N3-C2-O2	-7.80	116.74	122.20
35	BB	1248	G	C4-C5-N7	7.80	113.92	110.80
35	BB	1334	G	N1-C2-N3	-7.80	119.22	123.90
35	BB	2406	A	N9-C4-C5	7.80	108.92	105.80
35	BB	2761	A	O4'-C1'-N9	7.80	114.44	108.20
1	AA	528	C	C4-C5-C6	7.80	121.30	117.40
35	BB	1644	C	O4'-C1'-N1	7.80	114.44	108.20
1	AA	250	A	C5-C6-N1	-7.80	113.80	117.70
1	AA	633	G	N9-C4-C5	-7.80	102.28	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	475	C	N3-C4-N4	7.80	123.46	118.00
35	BB	2036	C	C4-C5-C6	7.80	121.30	117.40
1	AA	699	C	C5-C6-N1	-7.79	117.10	121.00
34	BA	34	A	O4'-C1'-N9	7.79	114.44	108.20
35	BB	1052	C	C5-C6-N1	7.79	124.90	121.00
35	BB	2063	C	N1-C2-N3	-7.79	113.74	119.20
35	BB	2369	A	C5-C6-N1	-7.79	113.80	117.70
1	AA	326	G	N3-C2-N2	7.79	125.36	119.90
1	AA	700	G	N3-C2-N2	7.79	125.36	119.90
35	BB	1560	G	O4'-C1'-N9	7.79	114.44	108.20
35	BB	2685	G	O4'-C1'-N9	7.79	114.43	108.20
1	AA	486	U	C5-C4-O4	-7.79	121.22	125.90
1	AA	925	G	N1-C2-N2	-7.79	109.19	116.20
35	BB	1976	U	P-O3'-C3'	7.79	129.05	119.70
1	AA	1447	A	C5-C6-N1	-7.79	113.81	117.70
35	BB	44	A	O4'-C1'-N9	7.79	114.43	108.20
34	BA	13	G	N3-C2-N2	7.79	125.35	119.90
35	BB	237	C	C1'-O4'-C4'	7.79	116.13	109.90
35	BB	2442	C	N3-C4-N4	7.79	123.45	118.00
1	AA	431	A	C5-N7-C8	7.79	107.79	103.90
1	AA	1375	A	C8-N9-C4	-7.79	102.69	105.80
34	BA	75	G	O4'-C1'-N9	7.79	114.43	108.20
35	BB	2274	A	C4-C5-C6	7.79	120.89	117.00
35	BB	2571	U	C5-C4-O4	-7.79	121.23	125.90
35	BB	2585	U	C5-C6-N1	7.79	126.59	122.70
1	AA	307	C	C5-C6-N1	-7.79	117.11	121.00
1	AA	800	G	N3-C2-N2	7.79	125.35	119.90
35	BB	376	G	N1-C6-O6	7.79	124.57	119.90
35	BB	750	A	N7-C8-N9	7.79	117.69	113.80
35	BB	1706	C	N3-C4-C5	-7.79	118.78	121.90
35	BB	2012	G	C4'-C3'-C2'	-7.79	94.81	102.60
1	AA	1214	C	C6-N1-C1'	-7.78	111.46	120.80
1	AA	1287	A	O4'-C1'-N9	7.78	114.43	108.20
1	AA	1304	G	N3-C2-N2	7.78	125.35	119.90
35	BB	930	G	N9-C4-C5	7.78	108.51	105.40
22	AV	27	C	O4'-C1'-N1	7.78	114.43	108.20
35	BB	373	U	O4'-C1'-N1	7.78	114.42	108.20
35	BB	429	A	C5'-C4'-O4'	7.78	118.44	109.10
35	BB	793	A	O4'-C1'-N9	7.78	114.42	108.20
35	BB	1516	G	N9-C4-C5	-7.78	102.29	105.40
35	BB	1682	G	C6-N1-C2	7.78	129.77	125.10
35	BB	2224	G	N1-C2-N3	-7.78	119.23	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	166	ARG	NE-CZ-NH1	7.78	124.19	120.30
1	AA	376	G	N1-C2-N2	-7.78	109.20	116.20
35	BB	626	A	N3-C4-C5	-7.78	121.36	126.80
35	BB	1738	G	C5-C6-O6	-7.78	123.93	128.60
1	AA	888	G	C5-C6-O6	-7.78	123.93	128.60
1	AA	1236	A	O4'-C1'-N9	7.78	114.42	108.20
1	AA	1504	G	N3-C4-C5	7.78	132.49	128.60
1	AA	1194	U	C5-C6-N1	7.78	126.59	122.70
34	BA	4	C	C2-N3-C4	-7.78	116.01	119.90
35	BB	1023	U	O4'-C1'-N1	7.78	114.42	108.20
35	BB	1408	G	C6-C5-N7	-7.78	125.73	130.40
35	BB	1990	C	C4-C5-C6	7.78	121.29	117.40
35	BB	1059	G	C4-C5-N7	7.77	113.91	110.80
35	BB	1923	U	N3-C4-C5	-7.77	109.94	114.60
1	AA	133	U	O4'-C1'-N1	7.77	114.42	108.20
1	AA	394	G	C8-N9-C4	-7.77	103.29	106.40
1	AA	580	C	C4-C5-C6	-7.77	113.51	117.40
1	AA	988	G	C6-N1-C2	-7.77	120.44	125.10
1	AA	990	C	C5-C4-N4	-7.77	114.76	120.20
1	AA	1353	G	N1-C6-O6	7.77	124.56	119.90
35	BB	290	U	N3-C4-C5	7.77	119.26	114.60
35	BB	1491	G	N9-C4-C5	-7.77	102.29	105.40
35	BB	1919	A	O4'-C4'-C3'	-7.77	96.23	104.00
35	BB	2144	G	C6-C5-N7	-7.77	125.74	130.40
1	AA	585	G	N9-C4-C5	-7.77	102.29	105.40
35	BB	670	A	C6-C5-N7	-7.77	126.86	132.30
35	BB	701	G	C4-C5-N7	7.77	113.91	110.80
1	AA	270	A	C4-C5-N7	-7.77	106.81	110.70
1	AA	355	C	N1-C2-N3	-7.77	113.76	119.20
1	AA	366	A	C5-C6-N1	-7.77	113.81	117.70
1	AA	1237	C	C2-N3-C4	7.77	123.78	119.90
34	BA	13	G	C8-N9-C4	-7.77	103.29	106.40
35	BB	915	C	O4'-C1'-N1	7.77	114.42	108.20
1	AA	53	A	P-O3'-C3'	7.77	129.02	119.70
1	AA	147	G	C1'-O4'-C4'	-7.77	103.69	109.90
1	AA	310	G	C1'-O4'-C4'	7.77	116.11	109.90
35	BB	430	A	C6-C5-N7	-7.77	126.86	132.30
35	BB	535	G	C5-C6-O6	-7.77	123.94	128.60
35	BB	1140	C	N3-C4-C5	-7.77	118.79	121.90
1	AA	577	G	O4'-C1'-N9	7.76	114.41	108.20
1	AA	1109	C	C5-C4-N4	-7.76	114.77	120.20
35	BB	52	A	C4-C5-C6	7.76	120.88	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1056	G	N3-C2-N2	7.76	125.33	119.90
35	BB	1537	G	N1-C2-N3	-7.76	119.24	123.90
35	BB	2600	A	P-O3'-C3'	-7.76	110.38	119.70
35	BB	2748	A	C6-C5-N7	-7.76	126.86	132.30
1	AA	1304	G	C5-N7-C8	-7.76	100.42	104.30
35	BB	1171	G	C8-N9-C4	-7.76	103.30	106.40
29	B4	38	PHE	CB-CG-CD1	7.76	126.23	120.80
35	BB	377	G	C5-C6-N1	-7.76	107.62	111.50
35	BB	538	A	C5-C6-N6	-7.76	117.49	123.70
35	BB	2004	G	O4'-C1'-N9	7.76	114.41	108.20
35	BB	2602	A	C6-C5-N7	-7.76	126.87	132.30
35	BB	2611	C	O4'-C1'-N1	7.76	114.41	108.20
1	AA	60	A	C4-C5-C6	7.76	120.88	117.00
1	AA	198	G	O4'-C1'-N9	7.76	114.41	108.20
1	AA	877	G	N3-C4-N9	-7.76	121.34	126.00
2	AB	138	ARG	NE-CZ-NH1	-7.76	116.42	120.30
35	BB	410	G	O4'-C1'-N9	7.76	114.41	108.20
35	BB	491	G	N3-C4-N9	7.76	130.66	126.00
35	BB	1093	G	C4-C5-N7	-7.76	107.70	110.80
35	BB	2869	G	C8-N9-C4	-7.76	103.30	106.40
35	BB	1272	A	C6-C5-N7	-7.76	126.87	132.30
1	AA	1164	G	C4-C5-C6	7.76	123.45	118.80
1	AA	1184	G	C5-C6-N1	-7.76	107.62	111.50
35	BB	825	A	N3-C4-C5	-7.76	121.37	126.80
35	BB	1567	G	C5-N7-C8	7.76	108.18	104.30
35	BB	2149	U	C5-C4-O4	-7.76	121.25	125.90
35	BB	2834	G	N3-C4-C5	7.76	132.48	128.60
1	AA	509	A	C8-N9-C4	-7.75	102.70	105.80
1	AA	815	A	C6-C5-N7	-7.75	126.87	132.30
35	BB	558	U	C4'-C3'-C2'	-7.75	94.84	102.60
35	BB	769	U	O4'-C1'-N1	7.75	114.40	108.20
35	BB	1469	A	C4-C5-N7	-7.75	106.82	110.70
35	BB	1646	C	N3-C4-N4	7.75	123.43	118.00
1	AA	649	A	O4'-C1'-N9	7.75	114.40	108.20
1	AA	1288	A	C5-C6-N6	-7.75	117.50	123.70
31	B6	32	ALA	N-CA-CB	7.75	120.95	110.10
35	BB	916	G	C6-C5-N7	-7.75	125.75	130.40
35	BB	1668	A	C4-C5-C6	7.75	120.88	117.00
35	BB	1803	A	C8-N9-C4	-7.75	102.70	105.80
35	BB	2189	U	N1-C2-N3	7.75	119.55	114.90
35	BB	2326	C	C5-C4-N4	-7.75	114.77	120.20
1	AA	32	A	C5-C6-N6	-7.75	117.50	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	43	C	C4-C5-C6	7.75	121.28	117.40
1	AA	528	C	C2-N3-C4	7.75	123.78	119.90
1	AA	546	A	C4-C5-C6	7.75	120.88	117.00
35	BB	423	A	C5-C6-N6	-7.75	117.50	123.70
35	BB	1427	A	O4'-C1'-N9	7.75	114.40	108.20
35	BB	1496	A	N3-C4-C5	-7.75	121.37	126.80
35	BB	2351	G	N1-C2-N2	-7.75	109.22	116.20
35	BB	2516	A	N7-C8-N9	7.75	117.68	113.80
1	AA	196	A	N1-C6-N6	7.75	123.25	118.60
1	AA	214	C	N1-C2-N3	-7.75	113.78	119.20
1	AA	451	A	O4'-C1'-N9	7.75	114.40	108.20
1	AA	1120	C	C5-C6-N1	7.75	124.88	121.00
1	AA	1484	C	O4'-C1'-N1	7.75	114.40	108.20
35	BB	1392	A	C5-C6-N6	-7.75	117.50	123.70
35	BB	2294	G	C4-C5-C6	7.75	123.45	118.80
1	AA	277	C	N3-C4-C5	-7.75	118.80	121.90
1	AA	699	C	C4'-C3'-C2'	-7.75	94.85	102.60
1	AA	1168	U	O4'-C1'-N1	7.75	114.40	108.20
1	AA	1170	A	C5-C6-N1	-7.75	113.83	117.70
1	AA	1319	A	N1-C6-N6	7.75	123.25	118.60
35	BB	920	A	C5-N7-C8	7.75	107.78	103.90
35	BB	1483	G	N1-C2-N3	-7.75	119.25	123.90
1	AA	50	A	N9-C4-C5	7.75	108.90	105.80
1	AA	951	G	N3-C2-N2	7.75	125.32	119.90
1	AA	1206	G	C5-N7-C8	-7.75	100.43	104.30
34	BA	61	G	N1-C2-N3	-7.75	119.25	123.90
35	BB	1002	G	N1-C2-N3	-7.75	119.25	123.90
35	BB	1780	A	C5-C6-N6	-7.75	117.50	123.70
35	BB	199	A	C5-C6-N1	-7.75	113.83	117.70
35	BB	784	G	N3-C2-N2	7.75	125.32	119.90
56	BY	76	ARG	NE-CZ-NH1	7.75	124.17	120.30
1	AA	23	C	P-O5'-C5'	7.74	133.29	120.90
1	AA	243	A	N1-C2-N3	-7.74	125.43	129.30
1	AA	1039	G	N7-C8-N9	7.74	116.97	113.10
1	AA	1144	G	C2-N3-C4	7.74	115.77	111.90
35	BB	537	G	O4'-C1'-N9	7.74	114.39	108.20
35	BB	658	U	O4'-C1'-N1	7.74	114.39	108.20
35	BB	937	C	P-O3'-C3'	-7.74	110.41	119.70
35	BB	1367	A	C5-N7-C8	7.74	107.77	103.90
35	BB	2802	G	C8-N9-C4	-7.74	103.30	106.40
35	BB	2897	U	O4'-C1'-N1	7.74	114.39	108.20
1	AA	166	U	C5'-C4'-O4'	7.74	118.39	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1193	G	N1-C6-O6	7.74	124.55	119.90
41	BH	25	TYR	CB-CG-CD1	7.74	125.64	121.00
1	AA	1110	A	N1-C2-N3	7.74	133.17	129.30
7	AG	90	VAL	CA-CB-CG2	7.74	122.51	110.90
35	BB	64	A	N1-C2-N3	7.74	133.17	129.30
35	BB	1431	A	N1-C6-N6	7.74	123.24	118.60
35	BB	2037	A	O4'-C1'-N9	7.74	114.39	108.20
35	BB	2571	U	N1-C2-N3	-7.74	110.26	114.90
1	AA	455	G	C8-N9-C4	-7.74	103.30	106.40
1	AA	640	A	C5-C6-N6	-7.74	117.51	123.70
1	AA	1037	C	C6-N1-C2	-7.74	117.20	120.30
1	AA	1221	G	C2-N3-C4	7.74	115.77	111.90
34	BA	62	C	O4'-C1'-N1	7.74	114.39	108.20
35	BB	2770	G	C5-C6-O6	-7.74	123.96	128.60
1	AA	201	G	C4-C5-N7	-7.74	107.71	110.80
1	AA	232	G	N1-C6-O6	7.74	124.54	119.90
1	AA	270	A	C4-C5-C6	7.74	120.87	117.00
1	AA	809	G	N3-C4-C5	-7.74	124.73	128.60
1	AA	1257	A	O4'-C1'-N9	7.74	114.39	108.20
35	BB	857	G	N3-C2-N2	7.74	125.31	119.90
35	BB	1376	C	C5-C6-N1	7.74	124.87	121.00
35	BB	1432	G	C4-C5-N7	7.74	113.89	110.80
35	BB	1526	C	O4'-C1'-N1	7.74	114.39	108.20
35	BB	2476	A	C5'-C4'-C3'	-7.74	103.62	116.00
35	BB	2699	C	N3-C4-N4	7.74	123.41	118.00
35	BB	2826	A	C5-C6-N1	-7.74	113.83	117.70
35	BB	2828	G	N9-C4-C5	-7.74	102.31	105.40
1	AA	75	G	N9-C4-C5	-7.73	102.31	105.40
1	AA	798	U	C5-C6-N1	-7.73	118.83	122.70
35	BB	2547	A	O4'-C1'-N9	7.73	114.39	108.20
46	BM	38	ARG	NE-CZ-NH2	-7.73	116.43	120.30
1	AA	76	G	C4-C5-N7	7.73	113.89	110.80
1	AA	189	A	N1-C2-N3	7.73	133.17	129.30
1	AA	311	C	C4-C5-C6	-7.73	113.53	117.40
1	AA	898	G	O4'-C1'-N9	7.73	114.39	108.20
35	BB	822	G	C6-C5-N7	-7.73	125.76	130.40
35	BB	1680	U	C6-N1-C2	-7.73	116.36	121.00
35	BB	1890	A	C8-N9-C4	-7.73	102.71	105.80
35	BB	2250	G	C2-N3-C4	7.73	115.77	111.90
35	BB	2410	G	N1-C2-N3	-7.73	119.26	123.90
35	BB	2564	A	P-O3'-C3'	7.73	128.98	119.70
1	AA	737	C	N3-C4-N4	7.73	123.41	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1482	G	O4'-C1'-N9	7.73	114.38	108.20
35	BB	2230	G	O4'-C1'-N9	7.73	114.39	108.20
1	AA	819	A	O4'-C1'-N9	7.73	114.38	108.20
35	BB	599	A	C2-N3-C4	-7.73	106.74	110.60
35	BB	939	G	N1-C6-O6	7.73	124.54	119.90
35	BB	1359	A	C4-C5-C6	7.73	120.86	117.00
1	AA	434	U	C5-C6-N1	7.73	126.56	122.70
1	AA	1072	G	C5-C6-N1	-7.73	107.64	111.50
1	AA	1464	U	O4'-C1'-N1	7.73	114.38	108.20
35	BB	1017	G	N3-C2-N2	7.73	125.31	119.90
35	BB	1188	U	O4'-C1'-N1	7.73	114.38	108.20
35	BB	1262	A	O4'-C1'-N9	7.73	114.38	108.20
35	BB	1478	G	C5-C6-N1	-7.73	107.64	111.50
35	BB	2576	G	N1-C6-O6	7.73	124.54	119.90
1	AA	310	G	O4'-C4'-C3'	-7.73	96.27	104.00
35	BB	351	C	N3-C4-N4	7.73	123.41	118.00
35	BB	1290	C	C5-C4-N4	-7.73	114.79	120.20
35	BB	2038	G	C5-C6-O6	-7.73	123.96	128.60
1	AA	26	A	N9-C4-C5	7.72	108.89	105.80
1	AA	782	A	N1-C6-N6	7.72	123.23	118.60
35	BB	515	A	C4-C5-C6	7.72	120.86	117.00
35	BB	570	G	C8-N9-C4	-7.72	103.31	106.40
35	BB	1869	G	N1-C6-O6	7.72	124.53	119.90
35	BB	2395	C	N3-C4-N4	7.72	123.41	118.00
35	BB	2857	G	N1-C2-N2	-7.72	109.25	116.20
1	AA	189	A	O4'-C1'-N9	7.72	114.38	108.20
1	AA	688	G	C5-N7-C8	7.72	108.16	104.30
9	AI	37	TYR	CB-CG-CD2	7.72	125.63	121.00
35	BB	2445	G	N1-C6-O6	7.72	124.53	119.90
35	BB	2682	A	C5-N7-C8	7.72	107.76	103.90
35	BB	2816	G	C4-C5-C6	7.72	123.43	118.80
1	AA	78	A	C5-C6-N1	-7.72	113.84	117.70
1	AA	1133	G	N9-C4-C5	7.72	108.49	105.40
1	AA	1239	A	C5-C6-N1	-7.72	113.84	117.70
1	AA	1517	G	C8-N9-C4	-7.72	103.31	106.40
35	BB	558	U	C5-C6-N1	7.72	126.56	122.70
35	BB	1068	G	C6-N1-C2	7.72	129.73	125.10
35	BB	1084	A	C5-C6-N6	-7.72	117.52	123.70
35	BB	1178	C	N3-C4-N4	7.72	123.41	118.00
1	AA	1247	U	N1-C1'-C2'	-7.72	103.51	112.00
1	AA	1391	U	O4'-C1'-N1	7.72	114.38	108.20
34	BA	10	G	C4-C5-N7	7.72	113.89	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	491	G	C6-C5-N7	-7.72	125.77	130.40
35	BB	1403	A	C1'-O4'-C4'	7.72	116.08	109.90
35	BB	1756	G	C8-N9-C4	7.72	109.49	106.40
35	BB	2048	G	O4'-C1'-N9	7.72	114.38	108.20
35	BB	2318	G	O4'-C1'-N9	7.72	114.38	108.20
1	AA	446	G	P-O3'-C3'	-7.72	110.44	119.70
35	BB	738	G	O4'-C1'-N9	7.72	114.37	108.20
1	AA	213	G	C4-C5-N7	7.72	113.89	110.80
35	BB	684	G	N1-C2-N3	-7.72	119.27	123.90
35	BB	778	G	C4-C5-N7	7.72	113.89	110.80
35	BB	855	G	C4-C5-N7	7.72	113.89	110.80
35	BB	2365	G	C4-C5-C6	7.72	123.43	118.80
35	BB	2689	U	N3-C4-C5	-7.72	109.97	114.60
1	AA	508	U	C5-C4-O4	7.71	130.53	125.90
1	AA	852	G	N7-C8-N9	-7.71	109.24	113.10
35	BB	495	G	C5-C6-O6	-7.71	123.97	128.60
35	BB	2765	A	C5'-C4'-C3'	-7.71	103.66	116.00
35	BB	2465	C	C5-C4-N4	-7.71	114.80	120.20
35	BB	2498	C	C6-N1-C2	7.71	123.39	120.30
1	AA	330	C	C4'-C3'-C2'	-7.71	94.89	102.60
35	BB	208	C	N3-C4-C5	-7.71	118.82	121.90
35	BB	243	U	N1-C2-O2	7.71	128.20	122.80
35	BB	892	A	N1-C6-N6	7.71	123.23	118.60
35	BB	2160	C	N3-C4-N4	7.71	123.40	118.00
35	BB	2222	C	C5-C6-N1	7.71	124.86	121.00
35	BB	2276	G	C5-C6-O6	-7.71	123.97	128.60
35	BB	1097	U	N3-C4-C5	-7.71	109.97	114.60
35	BB	1161	C	O4'-C1'-N1	7.71	114.37	108.20
35	BB	2663	G	C4-C5-C6	7.71	123.43	118.80
35	BB	953	G	O4'-C1'-N9	7.71	114.37	108.20
35	BB	1733	G	N1-C2-N2	-7.71	109.26	116.20
1	AA	540	G	N7-C8-N9	7.71	116.95	113.10
1	AA	739	C	C5-C4-N4	-7.71	114.81	120.20
1	AA	1032	G	C6-N1-C2	7.71	129.72	125.10
35	BB	941	A	C4-C5-C6	7.71	120.85	117.00
35	BB	2060	A	N9-C4-C5	7.71	108.88	105.80
35	BB	2847	U	O4'-C1'-N1	7.71	114.36	108.20
1	AA	59	A	N9-C4-C5	7.70	108.88	105.80
1	AA	811	C	P-O3'-C3'	7.70	128.94	119.70
34	BA	79	G	N1-C2-N3	-7.70	119.28	123.90
35	BB	188	G	C5-N7-C8	7.70	108.15	104.30
35	BB	471	A	O4'-C1'-N9	7.70	114.36	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	708	G	N9-C4-C5	-7.70	102.32	105.40
1	AA	15	G	C4-C5-C6	7.70	123.42	118.80
1	AA	703	G	N1-C6-O6	7.70	124.52	119.90
1	AA	996	A	C5-N7-C8	7.70	107.75	103.90
35	BB	302	C	C6-N1-C2	-7.70	117.22	120.30
35	BB	896	A	C6-C5-N7	-7.70	126.91	132.30
35	BB	1993	U	P-O5'-C5'	-7.70	108.58	120.90
35	BB	2014	A	N1-C6-N6	7.70	123.22	118.60
54	BU	6	ARG	NE-CZ-NH1	7.70	124.15	120.30
1	AA	589	U	C6-N1-C2	-7.70	116.38	121.00
1	AA	666	G	C4-C5-C6	7.70	123.42	118.80
31	B6	35	ARG	NE-CZ-NH2	-7.70	116.45	120.30
35	BB	265	A	O4'-C1'-N9	7.70	114.36	108.20
35	BB	1128	G	N3-C2-N2	7.70	125.29	119.90
35	BB	1758	U	C5-C6-N1	-7.70	118.85	122.70
35	BB	1766	G	O4'-C1'-N9	7.70	114.36	108.20
35	BB	2073	C	N1-C2-N3	-7.70	113.81	119.20
35	BB	2342	C	N1-C2-O2	7.70	123.52	118.90
35	BB	20	C	N3-C4-C5	-7.70	118.82	121.90
35	BB	359	G	C5-C6-O6	-7.70	123.98	128.60
35	BB	579	G	O4'-C1'-N9	7.70	114.36	108.20
35	BB	1140	C	C2-N3-C4	7.70	123.75	119.90
35	BB	2201	G	O4'-C1'-N9	7.70	114.36	108.20
35	BB	2264	C	O4'-C1'-N1	7.70	114.36	108.20
35	BB	2616	C	C5-C6-N1	7.70	124.85	121.00
35	BB	2890	G	N1-C6-O6	7.70	124.52	119.90
1	AA	344	A	N1-C6-N6	7.70	123.22	118.60
1	AA	1274	A	N1-C6-N6	7.70	123.22	118.60
1	AA	269	C	C5-C4-N4	-7.70	114.81	120.20
11	AK	105	ARG	NE-CZ-NH1	7.70	124.15	120.30
34	BA	84	G	C2-N3-C4	-7.70	108.05	111.90
35	BB	631	A	C5-C6-N6	-7.70	117.54	123.70
35	BB	875	G	C5-C6-O6	-7.70	123.98	128.60
35	BB	1038	G	C6-C5-N7	-7.70	125.78	130.40
35	BB	1684	G	O4'-C1'-N9	7.70	114.36	108.20
35	BB	2178	C	N3-C4-C5	-7.70	118.82	121.90
35	BB	2191	A	C5-N7-C8	7.70	107.75	103.90
1	AA	538	G	C4-C5-N7	7.69	113.88	110.80
35	BB	2410	G	N9-C4-C5	-7.69	102.32	105.40
35	BB	2795	C	N3-C4-C5	-7.69	118.82	121.90
1	AA	58	C	C6-N1-C2	7.69	123.38	120.30
1	AA	87	C	O4'-C1'-N1	7.69	114.35	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	241	G	C6-C5-N7	-7.69	125.78	130.40
1	AA	774	G	C5-C6-O6	-7.69	123.98	128.60
1	AA	1174	G	N7-C8-N9	-7.69	109.25	113.10
1	AA	1175	G	N3-C4-N9	7.69	130.62	126.00
34	BA	23	G	O4'-C1'-N9	7.69	114.35	108.20
35	BB	700	G	C5-C6-N1	-7.69	107.65	111.50
35	BB	1024	G	N3-C2-N2	7.69	125.28	119.90
35	BB	2893	A	C5-N7-C8	7.69	107.75	103.90
44	BK	108	ARG	NE-CZ-NH1	7.69	124.15	120.30
1	AA	1047	G	N7-C8-N9	7.69	116.94	113.10
1	AA	1502	A	C8-N9-C4	-7.69	102.72	105.80
35	BB	132	G	N1-C6-O6	7.69	124.52	119.90
35	BB	217	A	N3-C4-C5	-7.69	121.42	126.80
35	BB	318	C	C5-C6-N1	7.69	124.84	121.00
35	BB	2462	C	C4'-C3'-C2'	-7.69	94.91	102.60
35	BB	507	A	C8-N9-C4	-7.69	102.72	105.80
1	AA	1138	G	N1-C2-N3	-7.69	119.29	123.90
1	AA	1185	G	O4'-C1'-N9	7.69	114.35	108.20
35	BB	77	G	N9-C4-C5	-7.69	102.33	105.40
35	BB	313	G	N1-C6-O6	7.69	124.51	119.90
35	BB	1505	A	N1-C2-N3	-7.69	125.46	129.30
35	BB	152	A	C5-C6-N1	-7.69	113.86	117.70
35	BB	167	A	O4'-C1'-N9	7.69	114.35	108.20
35	BB	1325	U	C6-N1-C2	-7.69	116.39	121.00
1	AA	496	A	N7-C8-N9	7.68	117.64	113.80
1	AA	595	A	C5-C6-N6	-7.68	117.55	123.70
1	AA	1392	G	C4-C5-N7	-7.68	107.73	110.80
35	BB	50	U	C2-N1-C1'	7.68	126.92	117.70
35	BB	178	G	C6-C5-N7	-7.68	125.79	130.40
35	BB	708	G	O4'-C1'-N9	7.68	114.35	108.20
35	BB	1136	G	C6-N1-C2	-7.68	120.49	125.10
35	BB	1405	U	N3-C2-O2	7.68	127.58	122.20
35	BB	2154	A	C5-N7-C8	7.68	107.74	103.90
35	BB	2362	C	O4'-C1'-N1	7.68	114.35	108.20
1	AA	201	G	O4'-C1'-N9	7.68	114.34	108.20
1	AA	402	G	C4-C5-C6	7.68	123.41	118.80
35	BB	477	A	N7-C8-N9	-7.68	109.96	113.80
35	BB	648	G	N7-C8-N9	7.68	116.94	113.10
35	BB	886	A	N3-C4-C5	-7.68	121.42	126.80
35	BB	1162	G	C8-N9-C4	-7.68	103.33	106.40
44	BK	31	ARG	NE-CZ-NH2	7.68	124.14	120.30
1	AA	1458	G	C5-C6-O6	-7.68	123.99	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1284	A	C4-C5-N7	-7.68	106.86	110.70
35	BB	2060	A	P-O5'-C5'	-7.68	108.61	120.90
1	AA	192	A	C4-C5-C6	7.68	120.84	117.00
1	AA	858	G	C4-C5-C6	7.68	123.41	118.80
1	AA	953	G	N9-C4-C5	-7.68	102.33	105.40
1	AA	978	A	N1-C6-N6	7.68	123.21	118.60
22	AV	46	G	C5-C6-O6	-7.68	123.99	128.60
35	BB	57	C	C6-N1-C2	-7.68	117.23	120.30
35	BB	893	C	N3-C4-N4	7.68	123.38	118.00
35	BB	2137	U	C5'-C4'-O4'	7.68	118.31	109.10
35	BB	2374	C	O4'-C1'-N1	7.68	114.34	108.20
35	BB	2735	G	C5-C6-N1	-7.68	107.66	111.50
35	BB	2809	A	C4-C5-C6	7.68	120.84	117.00
1	AA	110	C	N3-C4-C5	-7.68	118.83	121.90
35	BB	212	G	C4-C5-N7	-7.68	107.73	110.80
35	BB	627	A	C4-C5-C6	7.68	120.84	117.00
35	BB	1691	C	C6-N1-C2	-7.68	117.23	120.30
1	AA	439	U	C5-C4-O4	7.68	130.51	125.90
1	AA	532	A	C8-N9-C4	-7.68	102.73	105.80
1	AA	623	C	C3'-C2'-C1'	7.68	107.64	101.50
35	BB	1038	G	N9-C4-C5	-7.68	102.33	105.40
35	BB	1213	A	N1-C2-N3	7.68	133.14	129.30
35	BB	1294	U	C2-N3-C4	-7.68	122.39	127.00
35	BB	1773	A	N7-C8-N9	-7.68	109.96	113.80
35	BB	2153	C	N3-C4-C5	-7.68	118.83	121.90
35	BB	2509	G	C6-C5-N7	-7.68	125.79	130.40
35	BB	2566	A	O4'-C1'-N9	7.68	114.34	108.20
35	BB	2692	G	C5-C6-N1	-7.68	107.66	111.50
35	BB	2827	C	N3-C4-N4	7.68	123.37	118.00
1	AA	698	G	C5-C6-N1	-7.67	107.66	111.50
35	BB	1735	A	C5-C6-N6	-7.67	117.56	123.70
35	BB	2723	C	N3-C4-C5	-7.67	118.83	121.90
34	BA	28	C	C5-C4-N4	-7.67	114.83	120.20
35	BB	305	C	C5-C4-N4	-7.67	114.83	120.20
35	BB	947	A	C5-C6-N1	-7.67	113.86	117.70
35	BB	1235	G	C5-C6-O6	-7.67	124.00	128.60
35	BB	1664	A	C4-N9-C1'	7.67	140.11	126.30
1	AA	106	C	N3-C4-C5	-7.67	118.83	121.90
1	AA	510	A	N1-C2-N3	7.67	133.14	129.30
1	AA	759	A	C5-N7-C8	-7.67	100.06	103.90
1	AA	783	C	P-O3'-C3'	-7.67	110.49	119.70
1	AA	1043	G	C6-C5-N7	-7.67	125.80	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1364	U	N3-C2-O2	7.67	127.57	122.20
35	BB	291	G	C5-C6-N1	-7.67	107.66	111.50
35	BB	301	G	C5-C6-O6	-7.67	124.00	128.60
35	BB	1032	A	C5-C6-N6	-7.67	117.56	123.70
1	AA	1192	C	C4-C5-C6	7.67	121.23	117.40
35	BB	1330	C	P-O5'-C5'	-7.67	108.63	120.90
35	BB	1751	U	N3-C4-O4	7.67	124.77	119.40
35	BB	2216	G	C4-C5-N7	7.67	113.87	110.80
35	BB	2286	G	C5-C6-N1	-7.67	107.67	111.50
1	AA	187	G	N1-C6-O6	7.67	124.50	119.90
1	AA	318	G	O4'-C4'-C3'	-7.67	96.33	104.00
1	AA	380	G	O4'-C1'-N9	7.67	114.33	108.20
1	AA	629	A	C5-C6-N6	-7.67	117.56	123.70
1	AA	1026	G	C5-C6-O6	-7.67	124.00	128.60
1	AA	1027	C	C6-N1-C2	-7.67	117.23	120.30
1	AA	1399	C	N1-C2-O2	-7.67	114.30	118.90
35	BB	1715	G	C4'-C3'-C2'	-7.67	94.93	102.60
35	BB	1823	G	N9-C4-C5	-7.67	102.33	105.40
35	BB	2226	C	C5-C6-N1	7.67	124.83	121.00
35	BB	2764	A	N3-C4-C5	-7.67	121.43	126.80
1	AA	164	G	C5-N7-C8	-7.67	100.47	104.30
1	AA	394	G	C2-N3-C4	7.67	115.73	111.90
35	BB	13	A	C5-C6-N1	-7.67	113.87	117.70
35	BB	437	U	O4'-C1'-N1	7.67	114.33	108.20
35	BB	553	G	N1-C6-O6	7.67	124.50	119.90
35	BB	971	G	C5-C6-O6	-7.67	124.00	128.60
35	BB	1168	G	C8-N9-C1'	7.67	136.97	127.00
35	BB	1337	G	C2-N3-C4	7.67	115.73	111.90
1	AA	306	A	P-O5'-C5'	7.67	133.16	120.90
1	AA	414	A	C2-N3-C4	7.67	114.43	110.60
1	AA	863	U	N3-C2-O2	-7.67	116.83	122.20
35	BB	1362	C	C4-C5-C6	-7.67	113.57	117.40
35	BB	2319	G	C5-N7-C8	7.67	108.13	104.30
35	BB	2863	C	N3-C4-N4	7.67	123.37	118.00
1	AA	774	G	C8-N9-C4	-7.66	103.33	106.40
1	AA	935	A	C5-C6-N1	-7.66	113.87	117.70
35	BB	413	C	C5-C4-N4	-7.66	114.83	120.20
35	BB	673	C	P-O3'-C3'	-7.66	110.50	119.70
35	BB	793	A	C5-C6-N6	-7.66	117.57	123.70
35	BB	972	A	C6-C5-N7	-7.66	126.94	132.30
35	BB	1425	G	N1-C2-N3	-7.66	119.30	123.90
1	AA	771	G	O4'-C1'-N9	7.66	114.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	277	G	N3-C4-N9	7.66	130.60	126.00
35	BB	830	G	C5-C6-N1	-7.66	107.67	111.50
35	BB	2377	A	C5-C6-N6	-7.66	117.57	123.70
1	AA	195	A	C1'-O4'-C4'	7.66	116.03	109.90
1	AA	250	A	C5-N7-C8	7.66	107.73	103.90
35	BB	1391	U	N1-C2-N3	7.66	119.50	114.90
35	BB	1699	G	O4'-C1'-N9	7.66	114.33	108.20
35	BB	2434	A	C6-C5-N7	-7.66	126.94	132.30
1	AA	506	G	N3-C2-N2	7.66	125.26	119.90
1	AA	806	C	N3-C4-N4	7.66	123.36	118.00
1	AA	1050	G	N9-C4-C5	-7.66	102.34	105.40
35	BB	681	G	C5-C6-N1	-7.66	107.67	111.50
35	BB	1453	A	N9-C4-C5	-7.66	102.74	105.80
35	BB	1665	A	C4-C5-C6	7.66	120.83	117.00
35	BB	501	A	C2-N3-C4	-7.66	106.77	110.60
55	BW	82	TYR	CB-CG-CD1	-7.66	116.41	121.00
1	AA	592	G	C2-N3-C4	7.66	115.73	111.90
1	AA	786	G	C8-N9-C4	-7.66	103.34	106.40
1	AA	1379	G	C5-C6-N1	-7.66	107.67	111.50
35	BB	1999	C	O4'-C1'-N1	7.66	114.33	108.20
35	BB	2154	A	O4'-C1'-N9	7.66	114.33	108.20
1	AA	449	G	C4-C5-C6	7.65	123.39	118.80
1	AA	923	A	C4-C5-C6	7.65	120.83	117.00
35	BB	2749	A	N1-C2-N3	-7.65	125.47	129.30
37	BD	13	ARG	NE-CZ-NH1	7.65	124.13	120.30
1	AA	59	A	N1-C6-N6	7.65	123.19	118.60
1	AA	149	A	C6-N1-C2	-7.65	114.01	118.60
1	AA	1065	U	C5-C6-N1	7.65	126.53	122.70
35	BB	1420	A	N9-C4-C5	-7.65	102.74	105.80
35	BB	1739	A	O4'-C1'-N9	7.65	114.32	108.20
35	BB	1832	C	N3-C4-C5	-7.65	118.84	121.90
35	BB	2181	U	N3-C4-O4	7.65	124.76	119.40
35	BB	2322	A	N1-C6-N6	7.65	123.19	118.60
35	BB	2451	A	C6-N1-C2	7.65	123.19	118.60
1	AA	263	A	C5-C6-N6	-7.65	117.58	123.70
35	BB	963	U	N1-C2-O2	-7.65	117.44	122.80
46	BM	18	ARG	NE-CZ-NH2	7.65	124.13	120.30
1	AA	277	C	C6-N1-C2	-7.65	117.24	120.30
1	AA	1255	G	C5-N7-C8	7.65	108.12	104.30
34	BA	73	A	C1'-O4'-C4'	7.65	116.02	109.90
35	BB	69	C	C5-C6-N1	7.65	124.82	121.00
35	BB	560	C	N3-C4-N4	7.65	123.35	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1719	G	C5-N7-C8	-7.65	100.47	104.30
1	AA	858	G	N1-C2-N3	-7.65	119.31	123.90
1	AA	1496	C	C5-C4-N4	-7.65	114.85	120.20
35	BB	1227	G	C4-C5-C6	7.65	123.39	118.80
35	BB	1293	C	O4'-C1'-N1	7.65	114.32	108.20
35	BB	1574	C	C2-N1-C1'	7.65	127.21	118.80
35	BB	1724	G	N1-C6-O6	7.65	124.49	119.90
35	BB	311	A	C5-N7-C8	7.65	107.72	103.90
1	AA	656	G	O4'-C1'-N9	7.64	114.32	108.20
1	AA	717	U	C5-C6-N1	7.64	126.52	122.70
1	AA	1325	C	N3-C4-N4	7.64	123.35	118.00
35	BB	366	C	O4'-C1'-N1	7.64	114.32	108.20
35	BB	845	A	C4-C5-C6	7.64	120.82	117.00
35	BB	1922	G	N7-C8-N9	7.64	116.92	113.10
35	BB	1984	G	N7-C8-N9	-7.64	109.28	113.10
35	BB	2078	C	C4-C5-C6	7.64	121.22	117.40
35	BB	2092	U	C5-C6-N1	7.64	126.52	122.70
1	AA	685	G	N9-C4-C5	-7.64	102.34	105.40
1	AA	1263	C	N3-C4-N4	7.64	123.35	118.00
35	BB	1392	A	C5-N7-C8	7.64	107.72	103.90
35	BB	1439	A	C4-C5-C6	7.64	120.82	117.00
35	BB	1539	U	N3-C4-O4	7.64	124.75	119.40
35	BB	1767	G	N1-C2-N3	-7.64	119.31	123.90
35	BB	2031	A	C5-N7-C8	7.64	107.72	103.90
35	BB	2722	G	N1-C2-N3	-7.64	119.31	123.90
1	AA	232	G	C5-N7-C8	-7.64	100.48	104.30
1	AA	825	A	N1-C6-N6	7.64	123.19	118.60
35	BB	1605	C	N3-C4-C5	-7.64	118.84	121.90
1	AA	446	G	N1-C2-N3	-7.64	119.32	123.90
1	AA	793	U	C5-C6-N1	7.64	126.52	122.70
1	AA	974	A	O4'-C1'-N9	7.64	114.31	108.20
18	AR	27	THR	CA-CB-CG2	-7.64	101.70	112.40
35	BB	220	G	N3-C2-N2	7.64	125.25	119.90
35	BB	2657	A	C4-C5-C6	7.64	120.82	117.00
35	BB	2867	G	P-O3'-C3'	-7.64	110.53	119.70
1	AA	1019	A	C2-N3-C4	7.64	114.42	110.60
1	AA	1295	U	N1-C2-N3	7.64	119.48	114.90
25	B0	10	ARG	NE-CZ-NH2	7.64	124.12	120.30
33	B8	12	ARG	NE-CZ-NH2	-7.64	116.48	120.30
35	BB	36	G	C4-C5-N7	-7.64	107.75	110.80
35	BB	506	G	C6-C5-N7	-7.64	125.82	130.40
35	BB	1212	G	C5-C6-N1	-7.64	107.68	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1573	G	C5-C6-N1	-7.64	107.68	111.50
35	BB	1618	A	O4'-C1'-N9	7.64	114.31	108.20
35	BB	1715	G	N1-C2-N3	-7.64	119.32	123.90
35	BB	2071	A	C5-C6-N1	-7.64	113.88	117.70
35	BB	2273	A	C5-N7-C8	7.64	107.72	103.90
35	BB	2391	G	C6-N1-C2	-7.64	120.52	125.10
1	AA	1339	A	C4-C5-C6	7.63	120.82	117.00
2	AB	209	VAL	CA-CB-CG2	-7.63	99.45	110.90
22	AV	20	U	O4'-C1'-N1	7.63	114.31	108.20
34	BA	58	A	C5-C6-N6	-7.63	117.59	123.70
35	BB	13	A	C5-C6-N6	-7.63	117.59	123.70
35	BB	2109	U	C2-N3-C4	-7.63	122.42	127.00
35	BB	2655	G	C4'-C3'-C2'	-7.63	94.97	102.60
1	AA	587	G	N9-C4-C5	-7.63	102.35	105.40
22	AV	70	C	N1-C2-O2	7.63	123.48	118.90
35	BB	2223	G	C5-C6-N1	-7.63	107.68	111.50
35	BB	2526	G	N9-C4-C5	-7.63	102.35	105.40
35	BB	2606	C	O4'-C1'-N1	7.63	114.31	108.20
1	AA	163	C	O4'-C1'-N1	7.63	114.31	108.20
1	AA	895	G	C5-C6-O6	-7.63	124.02	128.60
35	BB	277	G	N1-C6-O6	7.63	124.48	119.90
35	BB	503	A	C6-C5-N7	-7.63	126.96	132.30
35	BB	525	U	N1-C2-O2	-7.63	117.46	122.80
35	BB	536	G	N1-C6-O6	7.63	124.48	119.90
35	BB	585	G	C5-C6-O6	-7.63	124.02	128.60
35	BB	2418	A	C5-C6-N6	-7.63	117.59	123.70
34	BA	45	A	N9-C4-C5	7.63	108.85	105.80
35	BB	1276	A	C5-C6-N1	-7.63	113.89	117.70
35	BB	1869	G	N3-C2-N2	7.63	125.24	119.90
1	AA	451	A	N3-C4-C5	-7.63	121.46	126.80
1	AA	1238	A	C4-C5-C6	7.63	120.81	117.00
35	BB	187	G	C8-N9-C4	7.63	109.45	106.40
35	BB	330	A	C4-C5-N7	7.63	114.51	110.70
35	BB	1798	U	O4'-C1'-N1	7.63	114.30	108.20
35	BB	2241	A	O4'-C1'-N9	7.63	114.30	108.20
35	BB	2639	A	C4-C5-C6	7.63	120.81	117.00
1	AA	155	A	O4'-C1'-N9	7.63	114.30	108.20
1	AA	331	G	C5-N7-C8	7.63	108.11	104.30
1	AA	548	G	C4-C5-N7	7.63	113.85	110.80
35	BB	410	G	N3-C2-N2	7.63	125.24	119.90
35	BB	549	G	C5-C6-O6	-7.63	124.03	128.60
35	BB	1004	U	O4'-C1'-N1	7.63	114.30	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1893	C	C5-C4-N4	-7.63	114.86	120.20
35	BB	2859	G	N3-C2-N2	7.63	125.24	119.90
35	BB	31	C	C6-N1-C2	-7.62	117.25	120.30
35	BB	1664	A	C8-N9-C4	-7.62	102.75	105.80
35	BB	2664	G	N1-C2-N2	-7.62	109.34	116.20
1	AA	353	A	P-O3'-C3'	7.62	128.85	119.70
1	AA	402	G	N1-C6-O6	7.62	124.47	119.90
1	AA	1242	G	C4-C5-N7	-7.62	107.75	110.80
35	BB	350	G	N3-C2-N2	7.62	125.24	119.90
35	BB	1042	G	C5-N7-C8	7.62	108.11	104.30
35	BB	2860	A	O4'-C1'-N9	7.62	114.30	108.20
37	BD	33	ARG	NE-CZ-NH1	-7.62	116.49	120.30
54	BU	85	ARG	NE-CZ-NH1	-7.62	116.49	120.30
1	AA	189	A	C4-C5-C6	7.62	120.81	117.00
1	AA	490	C	N3-C4-C5	-7.62	118.85	121.90
1	AA	1076	U	C6-N1-C2	-7.62	116.43	121.00
35	BB	75	G	N1-C2-N3	-7.62	119.33	123.90
35	BB	753	A	N1-C2-N3	7.62	133.11	129.30
35	BB	739	A	C5-C6-N6	-7.62	117.60	123.70
35	BB	1155	A	N7-C8-N9	-7.62	109.99	113.80
35	BB	1551	A	C5-C6-N6	-7.62	117.60	123.70
35	BB	2036	C	C5'-C4'-O4'	7.62	118.24	109.10
35	BB	2268	A	C5-C6-N1	-7.62	113.89	117.70
1	AA	294	U	O4'-C1'-N1	7.62	114.30	108.20
2	AB	193	ASP	CB-CG-OD2	-7.62	111.44	118.30
35	BB	85	G	N3-C4-C5	-7.62	124.79	128.60
35	BB	2095	A	C1'-O4'-C4'	7.62	116.00	109.90
1	AA	320	A	C4-C5-C6	7.62	120.81	117.00
1	AA	1358	U	O4'-C1'-N1	7.62	114.29	108.20
35	BB	322	A	C5-C6-N1	-7.62	113.89	117.70
35	BB	2663	G	C5-C6-N1	-7.62	107.69	111.50
1	AA	1150	A	C2-N3-C4	-7.62	106.79	110.60
1	AA	1408	A	C3'-C2'-C1'	7.62	107.59	101.50
35	BB	182	A	N3-C4-C5	-7.62	121.47	126.80
35	BB	1451	C	O4'-C1'-N1	7.62	114.29	108.20
1	AA	109	A	N1-C2-N3	-7.61	125.49	129.30
1	AA	550	G	N1-C6-O6	7.61	124.47	119.90
35	BB	304	U	C3'-C2'-C1'	7.61	107.59	101.50
35	BB	768	G	N9-C4-C5	-7.61	102.36	105.40
35	BB	1889	A	C8-N9-C4	-7.61	102.75	105.80
35	BB	2868	A	C4-C5-N7	-7.61	106.89	110.70
1	AA	1015	G	C6-C5-N7	-7.61	125.83	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	28	A	C6-N1-C2	-7.61	114.03	118.60
35	BB	163	C	C5-C6-N1	-7.61	117.19	121.00
35	BB	669	G	P-O5'-C5'	-7.61	108.72	120.90
35	BB	892	A	P-O3'-C3'	-7.61	110.57	119.70
54	BU	6	ARG	NE-CZ-NH2	-7.61	116.49	120.30
1	AA	424	G	C4-C5-C6	7.61	123.37	118.80
1	AA	700	G	C5-C6-N1	-7.61	107.69	111.50
18	AR	47	ARG	NE-CZ-NH2	-7.61	116.50	120.30
35	BB	930	G	C8-N9-C4	-7.61	103.36	106.40
35	BB	2668	G	C5-C6-N1	-7.61	107.69	111.50
1	AA	127	G	C5-C6-O6	-7.61	124.03	128.60
35	BB	605	G	N1-C2-N3	-7.61	119.33	123.90
35	BB	2554	U	C5-C6-N1	7.61	126.50	122.70
1	AA	207	C	N1-C2-N3	7.61	124.53	119.20
1	AA	448	A	C4-C5-C6	7.61	120.80	117.00
1	AA	548	G	C5-C6-O6	-7.61	124.03	128.60
1	AA	596	A	N3-C4-N9	7.61	133.49	127.40
1	AA	991	U	O4'-C1'-N1	7.61	114.28	108.20
22	AV	23	C	O4'-C1'-N1	7.61	114.28	108.20
35	BB	1403	A	C5-C6-N6	-7.61	117.61	123.70
35	BB	1537	G	C4-C5-C6	7.61	123.36	118.80
35	BB	1677	A	N1-C6-N6	7.61	123.16	118.60
35	BB	2229	U	N3-C4-O4	7.61	124.73	119.40
1	AA	684	U	C4-C5-C6	-7.61	115.14	119.70
1	AA	973	G	C5-C6-O6	-7.61	124.04	128.60
1	AA	1300	G	O4'-C1'-N9	7.61	114.28	108.20
35	BB	2705	A	C5-C6-N6	-7.61	117.62	123.70
1	AA	90	C	N3-C4-C5	-7.60	118.86	121.90
1	AA	919	A	N3-C4-N9	7.60	133.48	127.40
1	AA	1028	C	N3-C4-C5	-7.60	118.86	121.90
34	BA	87	U	O4'-C1'-N1	7.60	114.28	108.20
35	BB	1218	G	N7-C8-N9	-7.60	109.30	113.10
35	BB	1847	A	C5-C6-N1	-7.60	113.90	117.70
35	BB	2608	G	N1-C6-O6	7.60	124.46	119.90
35	BB	2863	C	N3-C4-C5	-7.60	118.86	121.90
36	BC	95	TYR	CB-CG-CD1	-7.60	116.44	121.00
1	AA	29	U	N1-C2-N3	-7.60	110.34	114.90
1	AA	160	A	C2-N3-C4	-7.60	106.80	110.60
1	AA	1212	U	C1'-O4'-C4'	-7.60	103.82	109.90
35	BB	1380	G	N9-C4-C5	-7.60	102.36	105.40
35	BB	1947	C	N3-C4-N4	7.60	123.32	118.00
1	AA	250	A	C5-C6-N6	-7.60	117.62	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1093	A	P-O3'-C3'	7.60	128.82	119.70
1	AA	1282	C	N3-C2-O2	7.60	127.22	121.90
1	AA	1373	G	C8-N9-C4	-7.60	103.36	106.40
35	BB	7	G	N3-C4-C5	7.60	132.40	128.60
35	BB	93	G	O4'-C1'-N9	7.60	114.28	108.20
35	BB	984	A	N1-C6-N6	7.60	123.16	118.60
35	BB	1228	G	C5-C6-O6	-7.60	124.04	128.60
35	BB	1639	C	C4-C5-C6	7.60	121.20	117.40
35	BB	2030	A	C5-C6-N6	-7.60	117.62	123.70
35	BB	2743	U	O4'-C1'-N1	7.60	114.28	108.20
35	BB	2875	C	N3-C4-N4	7.60	123.32	118.00
1	AA	552	U	C6-N1-C2	-7.60	116.44	121.00
1	AA	1454	G	C8-N9-C4	-7.60	103.36	106.40
15	AO	88	ARG	NE-CZ-NH2	-7.60	116.50	120.30
35	BB	843	G	N3-C2-N2	7.60	125.22	119.90
35	BB	1163	G	N1-C6-O6	7.60	124.46	119.90
35	BB	1527	G	C8-N9-C4	-7.60	103.36	106.40
35	BB	2331	G	C8-N9-C4	-7.60	103.36	106.40
1	AA	483	C	N3-C4-N4	7.60	123.32	118.00
1	AA	923	A	O4'-C1'-N9	7.60	114.28	108.20
35	BB	115	C	N3-C4-N4	7.60	123.32	118.00
35	BB	161	A	C5-N7-C8	7.60	107.70	103.90
35	BB	246	C	N1-C2-O2	7.60	123.46	118.90
35	BB	1758	U	C4-C5-C6	7.59	124.26	119.70
35	BB	2742	G	C6-C5-N7	-7.59	125.84	130.40
35	BB	1410	G	C5-N7-C8	7.59	108.10	104.30
35	BB	1750	G	C8-N9-C1'	7.59	136.87	127.00
35	BB	1903	G	N1-C6-O6	7.59	124.46	119.90
35	BB	2569	G	C2-N3-C4	7.59	115.70	111.90
1	AA	229	U	C2-N3-C4	7.59	131.56	127.00
34	BA	106	G	C8-N9-C4	7.59	109.44	106.40
35	BB	645	C	O4'-C1'-N1	7.59	114.27	108.20
35	BB	2052	A	N1-C6-N6	7.59	123.16	118.60
35	BB	2159	G	O4'-C1'-C2'	-7.59	98.21	105.80
35	BB	2284	A	C8-N9-C4	-7.59	102.76	105.80
35	BB	2394	C	O4'-C1'-N1	7.59	114.27	108.20
35	BB	2488	G	N3-C2-N2	7.59	125.21	119.90
1	AA	778	G	O4'-C1'-N9	7.59	114.27	108.20
1	AA	1362	A	N1-C6-N6	7.59	123.15	118.60
35	BB	1581	G	N3-C2-N2	7.59	125.21	119.90
35	BB	1741	C	O4'-C1'-N1	7.59	114.27	108.20
35	BB	1930	G	C3'-C2'-C1'	7.59	107.57	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2116	G	C6-C5-N7	-7.59	125.85	130.40
1	AA	519	C	C2-N3-C4	7.59	123.69	119.90
1	AA	771	G	N1-C6-O6	7.59	124.45	119.90
1	AA	860	A	N1-C2-N3	7.59	133.09	129.30
35	BB	660	C	N3-C4-C5	-7.59	118.86	121.90
35	BB	1521	G	N1-C2-N3	-7.59	119.35	123.90
35	BB	2498	C	P-O3'-C3'	-7.59	110.59	119.70
35	BB	1030	C	N1-C2-O2	7.59	123.45	118.90
35	BB	1062	G	N7-C8-N9	-7.59	109.31	113.10
35	BB	1101	U	N3-C2-O2	7.59	127.51	122.20
35	BB	2280	G	N3-C2-N2	7.59	125.21	119.90
1	AA	36	C	C6-N1-C2	-7.58	117.27	120.30
1	AA	333	U	O4'-C1'-N1	7.58	114.27	108.20
22	AV	10	G	C5-C6-O6	-7.58	124.05	128.60
35	BB	256	A	C5-C6-N1	-7.58	113.91	117.70
1	AA	595	A	O4'-C1'-N9	7.58	114.27	108.20
1	AA	1367	C	O4'-C1'-N1	7.58	114.27	108.20
35	BB	383	C	C2-N3-C4	7.58	123.69	119.90
35	BB	514	A	C6-C5-N7	-7.58	126.99	132.30
35	BB	722	A	N1-C2-N3	7.58	133.09	129.30
35	BB	957	C	C6-N1-C2	-7.58	117.27	120.30
35	BB	1029	A	C5-C6-N1	-7.58	113.91	117.70
35	BB	2115	G	O4'-C1'-N9	7.58	114.27	108.20
1	AA	409	U	N3-C2-O2	7.58	127.51	122.20
1	AA	966	G	C1'-O4'-C4'	7.58	115.97	109.90
2	AB	183	PHE	CB-CG-CD2	-7.58	115.49	120.80
35	BB	1185	G	C5-N7-C8	7.58	108.09	104.30
35	BB	1784	A	N1-C6-N6	7.58	123.15	118.60
35	BB	2000	C	C5-C4-N4	-7.58	114.89	120.20
35	BB	2542	A	C5-C6-N6	-7.58	117.63	123.70
1	AA	158	G	C8-N9-C4	-7.58	103.37	106.40
1	AA	830	G	N3-C2-N2	7.58	125.21	119.90
1	AA	1203	C	C6-N1-C2	-7.58	117.27	120.30
1	AA	1329	A	C4-C5-N7	-7.58	106.91	110.70
35	BB	313	G	C4-C5-C6	7.58	123.35	118.80
35	BB	536	G	C8-N9-C4	7.58	109.43	106.40
36	BC	19	VAL	CA-CB-CG2	7.58	122.27	110.90
1	AA	94	G	N1-C6-O6	7.58	124.45	119.90
1	AA	411	A	O4'-C1'-N9	7.58	114.26	108.20
1	AA	453	G	C5-C6-O6	-7.58	124.05	128.60
1	AA	852	G	C5-C6-O6	-7.58	124.05	128.60
1	AA	1138	G	C5-N7-C8	-7.58	100.51	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1331	G	N1-C2-N3	-7.58	119.35	123.90
35	BB	406	G	C5-N7-C8	7.58	108.09	104.30
35	BB	718	A	C5-C6-N6	-7.58	117.64	123.70
35	BB	1569	A	O4'-C1'-N9	7.58	114.26	108.20
35	BB	2821	A	O4'-C1'-N9	7.58	114.26	108.20
35	BB	180	G	C5-C6-N1	-7.58	107.71	111.50
35	BB	687	C	O4'-C1'-N1	7.58	114.26	108.20
35	BB	707	G	N9-C4-C5	-7.58	102.37	105.40
35	BB	1685	C	N3-C4-N4	7.58	123.30	118.00
35	BB	2793	C	N3-C4-N4	7.58	123.30	118.00
1	AA	1300	G	C5-C6-O6	-7.58	124.05	128.60
1	AA	1416	G	C4-C5-C6	7.58	123.34	118.80
34	BA	59	A	C5-N7-C8	7.58	107.69	103.90
35	BB	161	A	C4-C5-N7	-7.58	106.91	110.70
35	BB	517	C	C4-C5-C6	7.58	121.19	117.40
35	BB	528	A	C5-N7-C8	7.58	107.69	103.90
35	BB	766	U	O4'-C1'-N1	7.58	114.26	108.20
35	BB	1194	A	O4'-C1'-N9	7.58	114.26	108.20
35	BB	1563	U	N3-C4-O4	7.58	124.70	119.40
35	BB	1685	C	O4'-C1'-N1	7.58	114.26	108.20
35	BB	1745	A	N1-C6-N6	7.58	123.15	118.60
35	BB	2224	G	C5-C6-O6	-7.58	124.05	128.60
1	AA	1148	U	N1-C2-O2	-7.57	117.50	122.80
1	AA	1336	C	C3'-C2'-C1'	-7.57	95.44	101.50
22	AV	28	C	O4'-C1'-N1	7.57	114.26	108.20
35	BB	681	G	C4-C5-C6	7.57	123.34	118.80
35	BB	1566	A	C4-C5-C6	7.57	120.79	117.00
35	BB	2778	A	C5-C6-N1	-7.57	113.91	117.70
1	AA	1308	U	N1-C2-N3	7.57	119.44	114.90
35	BB	487	C	O4'-C1'-N1	7.57	114.26	108.20
35	BB	930	G	C2-N3-C4	7.57	115.69	111.90
1	AA	24	U	N3-C4-C5	7.57	119.14	114.60
1	AA	1005	A	C5-C6-N6	-7.57	117.64	123.70
35	BB	781	A	C4-C5-N7	-7.57	106.92	110.70
35	BB	1009	A	C5-C6-N1	-7.57	113.92	117.70
35	BB	1278	C	O4'-C1'-N1	7.57	114.26	108.20
35	BB	1574	C	C6-N1-C2	-7.57	117.27	120.30
1	AA	275	G	N3-C2-N2	7.57	125.20	119.90
1	AA	679	C	O4'-C1'-N1	7.57	114.25	108.20
35	BB	361	G	N3-C4-C5	-7.57	124.81	128.60
35	BB	995	C	C1'-O4'-C4'	-7.57	103.84	109.90
1	AA	6	G	N3-C4-N9	-7.57	121.46	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1331	G	C2-N3-C4	7.57	115.68	111.90
35	BB	48	G	C5'-C4'-O4'	7.57	118.18	109.10
35	BB	201	C	N3-C4-C5	-7.57	118.87	121.90
35	BB	310	A	C4-C5-C6	7.57	120.78	117.00
35	BB	1215	G	N1-C2-N3	-7.57	119.36	123.90
35	BB	1531	C	N3-C4-C5	-7.57	118.87	121.90
35	BB	1740	G	N1-C2-N2	-7.57	109.39	116.20
35	BB	1849	G	N3-C2-N2	7.57	125.20	119.90
35	BB	2041	U	N1-C2-O2	-7.57	117.50	122.80
35	BB	2087	G	C6-C5-N7	-7.57	125.86	130.40
1	AA	462	G	N3-C4-C5	-7.57	124.82	128.60
1	AA	780	A	C6-C5-N7	-7.57	127.00	132.30
35	BB	1608	A	C4-C5-N7	7.57	114.48	110.70
35	BB	2659	G	O4'-C1'-N9	7.57	114.25	108.20
1	AA	90	C	O4'-C1'-N1	7.56	114.25	108.20
35	BB	954	G	C5-C6-N1	-7.56	107.72	111.50
35	BB	2403	C	O4'-C1'-N1	7.56	114.25	108.20
35	BB	2838	G	N1-C6-O6	7.56	124.44	119.90
34	BA	47	C	N3-C4-N4	7.56	123.29	118.00
35	BB	1157	G	C5-N7-C8	7.56	108.08	104.30
35	BB	1206	G	O4'-C4'-C3'	-7.56	96.44	104.00
35	BB	2209	G	C2-N3-C4	7.56	115.68	111.90
1	AA	1405	G	C2-N3-C4	7.56	115.68	111.90
35	BB	1553	A	C4-C5-C6	7.56	120.78	117.00
35	BB	1826	G	C6-C5-N7	-7.56	125.86	130.40
1	AA	62	U	N3-C4-O4	7.56	124.69	119.40
1	AA	1099	G	N1-C6-O6	7.56	124.44	119.90
35	BB	63	A	C8-N9-C4	-7.56	102.78	105.80
35	BB	535	G	C4-C5-C6	7.56	123.34	118.80
35	BB	924	G	C2-N3-C4	7.56	115.68	111.90
35	BB	1535	A	N7-C8-N9	7.56	117.58	113.80
35	BB	2399	G	C4-C5-C6	7.56	123.33	118.80
35	BB	2399	G	N1-C6-O6	7.56	124.44	119.90
35	BB	2587	A	N1-C6-N6	7.56	123.14	118.60
35	BB	2899	A	N1-C2-N3	7.56	133.08	129.30
1	AA	166	U	N3-C4-O4	7.56	124.69	119.40
1	AA	449	G	C5-N7-C8	-7.56	100.52	104.30
1	AA	759	A	P-O3'-C3'	-7.56	110.63	119.70
1	AA	1022	A	N1-C2-N3	7.56	133.08	129.30
35	BB	424	G	O4'-C1'-N9	7.56	114.25	108.20
35	BB	624	C	N3-C4-N4	7.56	123.29	118.00
35	BB	795	C	N3-C4-C5	-7.56	118.88	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	837	C	C4-C5-C6	7.56	121.18	117.40
35	BB	1848	A	N9-C4-C5	-7.56	102.78	105.80
35	BB	2061	G	N1-C2-N3	-7.56	119.37	123.90
35	BB	2862	G	N1-C2-N2	7.56	123.00	116.20
34	BA	4	C	O4'-C1'-N1	7.56	114.25	108.20
1	AA	122	G	C5-C6-O6	-7.55	124.07	128.60
1	AA	1061	G	N3-C4-C5	-7.55	124.82	128.60
35	BB	1601	G	C4-C5-N7	7.55	113.82	110.80
35	BB	1767	G	N3-C2-N2	7.55	125.19	119.90
35	BB	2378	A	N1-C2-N3	7.55	133.08	129.30
1	AA	1390	U	C6-N1-C2	-7.55	116.47	121.00
35	BB	80	G	N3-C4-C5	-7.55	124.82	128.60
35	BB	928	A	C6-N1-C2	-7.55	114.07	118.60
35	BB	2549	G	N3-C2-N2	7.55	125.19	119.90
1	AA	574	A	P-O5'-C5'	7.55	132.98	120.90
35	BB	239	C	C6-N1-C2	-7.55	117.28	120.30
35	BB	1368	G	C4-C5-C6	7.55	123.33	118.80
35	BB	1760	C	C4-C5-C6	7.55	121.18	117.40
35	BB	2134	A	C2-N3-C4	7.55	114.38	110.60
1	AA	81	A	C5'-C4'-O4'	7.55	118.16	109.10
1	AA	96	U	O4'-C1'-N1	7.55	114.24	108.20
1	AA	115	G	P-O3'-C3'	7.55	128.76	119.70
1	AA	336	A	N7-C8-N9	-7.55	110.03	113.80
1	AA	506	G	C5-C6-O6	-7.55	124.07	128.60
1	AA	814	A	C6-C5-N7	-7.55	127.02	132.30
1	AA	1350	A	C4-C5-C6	7.55	120.78	117.00
35	BB	440	C	N1-C2-N3	-7.55	113.92	119.20
35	BB	671	C	C3'-C2'-C1'	-7.55	95.46	101.50
1	AA	1475	G	C5-N7-C8	7.55	108.07	104.30
35	BB	1488	C	C5'-C4'-C3'	7.55	128.08	116.00
35	BB	2841	C	N3-C4-N4	7.55	123.28	118.00
1	AA	93	U	C5-C4-O4	-7.55	121.37	125.90
1	AA	415	A	C5'-C4'-C3'	-7.55	103.93	116.00
1	AA	483	C	C5-C4-N4	-7.55	114.92	120.20
22	AV	30	U	O4'-C1'-N1	7.55	114.24	108.20
34	BA	4	C	N3-C4-C5	-7.55	118.88	121.90
35	BB	1862	G	N3-C4-C5	-7.55	124.83	128.60
35	BB	2005	A	C5-C6-N6	-7.55	117.66	123.70
1	AA	1214	C	N1-C2-N3	-7.54	113.92	119.20
35	BB	130	C	N3-C4-N4	7.54	123.28	118.00
35	BB	1681	G	C6-C5-N7	-7.54	125.87	130.40
1	AA	9	G	N1-C6-O6	7.54	124.43	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	803	G	O4'-C1'-N9	7.54	114.23	108.20
1	AA	1166	G	C6-C5-N7	-7.54	125.87	130.40
1	AA	1499	A	C4-C5-N7	-7.54	106.93	110.70
1	AA	1499	A	N7-C8-N9	-7.54	110.03	113.80
35	BB	715	A	C5-N7-C8	7.54	107.67	103.90
35	BB	885	C	N3-C4-C5	-7.54	118.88	121.90
35	BB	1223	G	C5-N7-C8	7.54	108.07	104.30
35	BB	2147	A	C5-C6-N1	-7.54	113.93	117.70
1	AA	428	G	N1-C6-O6	7.54	124.42	119.90
1	AA	1353	G	N3-C4-N9	7.54	130.53	126.00
35	BB	568	U	O4'-C1'-N1	7.54	114.23	108.20
35	BB	1717	A	C5-C6-N1	-7.54	113.93	117.70
35	BB	2702	G	C5-N7-C8	7.54	108.07	104.30
1	AA	259	G	N1-C6-O6	7.54	124.42	119.90
35	BB	54	G	C6-C5-N7	-7.54	125.88	130.40
35	BB	274	C	C1'-O4'-C4'	-7.54	103.87	109.90
1	AA	1146	A	N1-C2-N3	7.54	133.07	129.30
35	BB	2044	C	N3-C4-N4	7.54	123.28	118.00
1	AA	1521	C	C5-C6-N1	7.54	124.77	121.00
35	BB	340	A	N1-C6-N6	7.54	123.12	118.60
35	BB	821	A	C5-C6-N1	-7.54	113.93	117.70
35	BB	1495	A	C4-C5-C6	7.54	120.77	117.00
1	AA	77	A	N1-C2-N3	-7.54	125.53	129.30
35	BB	275	C	C2-N3-C4	7.54	123.67	119.90
35	BB	307	G	N1-C6-O6	7.54	124.42	119.90
35	BB	456	C	N3-C2-O2	-7.54	116.62	121.90
35	BB	600	G	C5-C6-N1	7.54	115.27	111.50
35	BB	620	G	N1-C6-O6	7.54	124.42	119.90
35	BB	1491	G	C5-C6-O6	-7.54	124.08	128.60
35	BB	1862	G	C6-C5-N7	-7.54	125.88	130.40
35	BB	2120	G	C8-N9-C4	7.54	109.42	106.40
35	BB	2232	C	N3-C4-N4	7.54	123.28	118.00
35	BB	2754	U	N1-C2-O2	-7.54	117.53	122.80
1	AA	605	U	C5-C6-N1	7.53	126.47	122.70
1	AA	909	A	C5-C6-N6	-7.53	117.67	123.70
16	AP	69	ASP	CB-CG-OD2	-7.53	111.52	118.30
35	BB	83	A	C4-C5-C6	7.53	120.77	117.00
35	BB	1091	G	O4'-C1'-N9	7.53	114.23	108.20
35	BB	1471	G	N3-C4-N9	7.53	130.52	126.00
35	BB	1904	G	N3-C4-N9	7.53	130.52	126.00
1	AA	665	A	C4-C5-N7	-7.53	106.93	110.70
1	AA	1453	G	C5-C6-O6	-7.53	124.08	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1300	G	C5-C6-N1	-7.53	107.73	111.50
35	BB	1852	U	C2-N3-C4	-7.53	122.48	127.00
35	BB	2283	C	O5'-P-OP2	-7.53	98.92	105.70
35	BB	2405	G	N1-C2-N3	-7.53	119.38	123.90
35	BB	2665	A	C6-C5-N7	-7.53	127.03	132.30
1	AA	69	G	C8-N9-C4	-7.53	103.39	106.40
1	AA	139	A	N1-C6-N6	7.53	123.12	118.60
1	AA	200	G	O4'-C1'-N9	7.53	114.22	108.20
1	AA	367	U	C5-C6-N1	7.53	126.47	122.70
1	AA	687	A	O4'-C1'-N9	7.53	114.22	108.20
35	BB	260	G	C8-N9-C4	-7.53	103.39	106.40
35	BB	801	G	N1-C6-O6	7.53	124.42	119.90
35	BB	815	C	C5-C4-N4	-7.53	114.93	120.20
35	BB	1132	U	N3-C4-O4	7.53	124.67	119.40
35	BB	2098	U	C4-C5-C6	-7.53	115.18	119.70
40	BG	118	ALA	N-CA-CB	7.53	120.64	110.10
1	AA	722	G	C8-N9-C4	-7.53	103.39	106.40
1	AA	826	C	O4'-C1'-N1	7.53	114.22	108.20
1	AA	1150	A	N1-C2-N3	7.53	133.06	129.30
35	BB	252	G	C5-C6-O6	-7.53	124.08	128.60
1	AA	168	G	N1-C2-N2	-7.53	109.42	116.20
1	AA	1106	G	N1-C2-N2	-7.53	109.42	116.20
5	AE	28	ARG	NE-CZ-NH2	-7.53	116.54	120.30
35	BB	1132	U	N3-C4-C5	-7.53	110.08	114.60
1	AA	113	G	C1'-O4'-C4'	7.53	115.92	109.90
1	AA	155	A	C6-C5-N7	-7.53	127.03	132.30
1	AA	1043	G	C4-C5-C6	7.53	123.31	118.80
1	AA	1486	G	N3-C2-N2	7.53	125.17	119.90
35	BB	484	C	N3-C4-N4	7.53	123.27	118.00
35	BB	1891	G	C4-C5-C6	7.53	123.31	118.80
35	BB	2604	U	P-O3'-C3'	-7.53	110.67	119.70
37	BD	35	THR	CA-CB-CG2	-7.53	101.86	112.40
35	BB	117	G	C5-C6-O6	-7.52	124.09	128.60
35	BB	2357	G	C5-C6-N1	-7.52	107.74	111.50
1	AA	39	G	C6-C5-N7	-7.52	125.89	130.40
1	AA	324	G	C6-C5-N7	-7.52	125.89	130.40
1	AA	829	G	C8-N9-C4	-7.52	103.39	106.40
1	AA	1144	G	C5-C6-N1	-7.52	107.74	111.50
1	AA	1237	C	N3-C4-C5	-7.52	118.89	121.90
35	BB	82	U	C5-C6-N1	7.52	126.46	122.70
35	BB	1014	A	N3-C4-C5	-7.52	121.53	126.80
35	BB	1775	U	C4-C5-C6	7.52	124.21	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2266	A	O4'-C1'-N9	7.52	114.22	108.20
1	AA	427	U	O4'-C1'-N1	7.52	114.22	108.20
1	AA	454	G	C5-C6-O6	-7.52	124.09	128.60
1	AA	459	A	N1-C2-N3	7.52	133.06	129.30
1	AA	559	A	N9-C4-C5	7.52	108.81	105.80
1	AA	1016	A	C1'-O4'-C4'	7.52	115.92	109.90
35	BB	792	A	N1-C6-N6	7.52	123.11	118.60
35	BB	1109	C	P-O3'-C3'	7.52	128.73	119.70
35	BB	1569	A	C6-C5-N7	-7.52	127.04	132.30
35	BB	2518	A	C4-C5-C6	7.52	120.76	117.00
1	AA	148	G	O4'-C1'-N9	7.52	114.22	108.20
1	AA	172	A	N3-C4-C5	-7.52	121.54	126.80
1	AA	179	A	O4'-C1'-N9	7.52	114.22	108.20
1	AA	438	U	C5-C6-N1	7.52	126.46	122.70
1	AA	638	U	C4-C5-C6	7.52	124.21	119.70
1	AA	987	G	C4-C5-N7	-7.52	107.79	110.80
1	AA	1020	G	C5-C6-O6	-7.52	124.09	128.60
1	AA	1034	G	C5-C6-O6	-7.52	124.09	128.60
1	AA	1331	G	C4-C5-C6	7.52	123.31	118.80
35	BB	358	U	N3-C4-O4	7.52	124.66	119.40
35	BB	1887	C	P-O3'-C3'	-7.52	110.68	119.70
35	BB	1938	A	C1'-O4'-C4'	-7.52	103.88	109.90
35	BB	2019	A	C5-C6-N1	-7.52	113.94	117.70
1	AA	165	G	O4'-C1'-N9	7.52	114.21	108.20
1	AA	421	U	O4'-C1'-N1	7.52	114.21	108.20
1	AA	1076	U	N1-C2-O2	-7.52	117.54	122.80
1	AA	1204	A	O4'-C1'-N9	7.52	114.21	108.20
22	AV	17	C	O4'-C1'-N1	7.52	114.21	108.20
35	BB	61	C	C4-C5-C6	7.52	121.16	117.40
35	BB	127	A	N1-C2-N3	7.52	133.06	129.30
35	BB	1362	C	C5-C6-N1	7.52	124.76	121.00
35	BB	1382	G	C1'-O4'-C4'	-7.52	103.89	109.90
35	BB	2347	C	C6-N1-C2	-7.52	117.29	120.30
35	BB	2399	G	N1-C2-N3	-7.52	119.39	123.90
35	BB	2560	A	N1-C2-N3	7.52	133.06	129.30
35	BB	254	G	N1-C2-N2	-7.52	109.44	116.20
35	BB	627	A	C5-C6-N1	-7.52	113.94	117.70
35	BB	912	C	N1-C2-O2	-7.52	114.39	118.90
35	BB	1567	G	C4-C5-N7	-7.52	107.79	110.80
35	BB	2847	U	N3-C4-C5	-7.52	110.09	114.60
1	AA	36	C	N3-C4-C5	-7.51	118.89	121.90
1	AA	642	A	C5-C6-N1	-7.51	113.94	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	760	G	N9-C4-C5	7.51	108.41	105.40
35	BB	228	C	O4'-C1'-N1	7.51	114.21	108.20
35	BB	903	C	C5-C6-N1	7.51	124.76	121.00
1	AA	20	U	N3-C4-O4	7.51	124.66	119.40
35	BB	1537	G	P-O3'-C3'	7.51	128.72	119.70
35	BB	2066	C	C6-N1-C2	-7.51	117.30	120.30
35	BB	2867	G	C5-C6-O6	-7.51	124.09	128.60
35	BB	2893	A	C2-N3-C4	-7.51	106.84	110.60
1	AA	576	C	O4'-C1'-N1	7.51	114.21	108.20
1	AA	1334	G	C5-C6-O6	-7.51	124.09	128.60
35	BB	1083	U	P-O5'-C5'	-7.51	108.88	120.90
35	BB	1094	U	N3-C4-O4	-7.51	114.14	119.40
35	BB	2394	C	C2-N3-C4	7.51	123.66	119.90
52	BS	25	ARG	NE-CZ-NH1	7.51	124.06	120.30
1	AA	428	G	C5-C6-O6	-7.51	124.09	128.60
1	AA	1519	A	C8-N9-C4	-7.51	102.80	105.80
35	BB	104	A	C1'-O4'-C4'	-7.51	103.89	109.90
35	BB	1011	G	C8-N9-C1'	7.51	136.76	127.00
35	BB	1216	G	N1-C6-O6	7.51	124.41	119.90
35	BB	1492	G	N3-C4-C5	7.51	132.35	128.60
35	BB	1688	U	N3-C4-O4	7.51	124.66	119.40
35	BB	1871	A	N1-C2-N3	7.51	133.06	129.30
35	BB	2006	C	N1-C2-N3	-7.51	113.94	119.20
35	BB	382	A	C5-N7-C8	7.51	107.65	103.90
35	BB	1233	C	O4'-C1'-N1	7.51	114.21	108.20
1	AA	845	A	C8-N9-C4	-7.51	102.80	105.80
1	AA	949	A	C6-N1-C2	7.51	123.10	118.60
1	AA	995	C	C6-N1-C2	-7.51	117.30	120.30
16	AP	1	MET	CG-SD-CE	-7.51	88.19	100.20
35	BB	437	U	C3'-C2'-C1'	-7.51	95.50	101.50
35	BB	1261	C	N3-C4-N4	7.51	123.25	118.00
35	BB	2283	C	P-O3'-C3'	-7.51	110.69	119.70
35	BB	2421	G	N7-C8-N9	-7.51	109.35	113.10
1	AA	366	A	C8-N9-C4	-7.50	102.80	105.80
1	AA	446	G	C5-C6-O6	-7.50	124.10	128.60
35	BB	843	G	N3-C4-N9	7.50	130.50	126.00
1	AA	367	U	C4-C5-C6	-7.50	115.20	119.70
1	AA	613	C	N3-C4-N4	7.50	123.25	118.00
1	AA	808	C	N1-C2-N3	-7.50	113.95	119.20
1	AA	885	G	N9-C4-C5	7.50	108.40	105.40
35	BB	49	A	C8-N9-C4	-7.50	102.80	105.80
35	BB	153	U	O4'-C1'-C2'	-7.50	98.30	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1578	U	C4'-C3'-C2'	-7.50	95.10	102.60
35	BB	1645	G	O4'-C1'-N9	7.50	114.20	108.20
35	BB	1717	A	C4-C5-C6	7.50	120.75	117.00
35	BB	1885	A	C4-C5-C6	7.50	120.75	117.00
35	BB	2654	A	C5-C6-N6	-7.50	117.70	123.70
1	AA	902	G	C6-C5-N7	-7.50	125.90	130.40
9	AI	19	PHE	CB-CG-CD1	-7.50	115.55	120.80
15	AO	67	ASP	CB-CG-OD2	-7.50	111.55	118.30
35	BB	250	G	N1-C2-N2	-7.50	109.45	116.20
35	BB	271	G	C3'-C2'-C1'	-7.50	95.50	101.50
35	BB	319	G	N1-C6-O6	7.50	124.40	119.90
35	BB	763	G	C5-C6-O6	-7.50	124.10	128.60
35	BB	1314	C	N3-C4-N4	7.50	123.25	118.00
1	AA	588	G	N1-C2-N3	-7.50	119.40	123.90
1	AA	830	G	C8-N9-C4	-7.50	103.40	106.40
35	BB	206	U	N3-C2-O2	7.50	127.45	122.20
35	BB	750	A	O4'-C1'-N9	7.50	114.20	108.20
35	BB	781	A	C5-N7-C8	7.50	107.65	103.90
35	BB	926	G	P-O3'-C3'	-7.50	110.70	119.70
35	BB	1179	G	C6-N1-C2	7.50	129.60	125.10
35	BB	2283	C	N1-C2-O2	-7.50	114.40	118.90
35	BB	2896	C	C5-C6-N1	7.50	124.75	121.00
41	BH	27	ARG	NE-CZ-NH1	7.50	124.05	120.30
1	AA	64	G	C4-C5-N7	7.50	113.80	110.80
1	AA	221	C	N3-C2-O2	7.50	127.15	121.90
1	AA	821	G	C4-C5-N7	-7.50	107.80	110.80
35	BB	235	U	O4'-C1'-N1	7.50	114.20	108.20
35	BB	1856	U	C5-C4-O4	7.50	130.40	125.90
1	AA	558	G	C6-C5-N7	-7.50	125.90	130.40
1	AA	1353	G	C6-N1-C2	7.50	129.60	125.10
18	AR	31	TYR	CB-CG-CD1	7.50	125.50	121.00
35	BB	265	A	C6-N1-C2	7.50	123.10	118.60
35	BB	1533	C	C2-N3-C4	7.50	123.65	119.90
35	BB	2743	U	C6-N1-C2	-7.50	116.50	121.00
1	AA	113	G	N9-C4-C5	-7.49	102.40	105.40
1	AA	912	C	O4'-C1'-N1	7.49	114.19	108.20
1	AA	1220	G	N1-C6-O6	7.49	124.40	119.90
1	AA	1459	G	C4-C5-N7	7.49	113.80	110.80
34	BA	64	G	N1-C6-O6	7.49	124.40	119.90
35	BB	137	U	O4'-C1'-N1	7.49	114.19	108.20
35	BB	278	A	C2-N3-C4	7.49	114.35	110.60
35	BB	1028	A	C8-N9-C4	-7.49	102.80	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2295	C	O4'-C1'-N1	7.49	114.19	108.20
35	BB	2430	A	C2-N3-C4	-7.49	106.85	110.60
35	BB	2557	G	C4-C5-C6	7.49	123.30	118.80
35	BB	2771	C	C4-C5-C6	7.49	121.15	117.40
1	AA	285	C	N3-C4-N4	7.49	123.24	118.00
1	AA	945	G	P-O5'-C5'	7.49	132.89	120.90
35	BB	45	G	P-O3'-C3'	7.49	128.69	119.70
35	BB	882	G	N1-C6-O6	7.49	124.39	119.90
35	BB	1989	G	C5-C6-O6	-7.49	124.11	128.60
35	BB	2119	A	C2-N3-C4	-7.49	106.85	110.60
35	BB	2338	C	N3-C2-O2	7.49	127.14	121.90
35	BB	2866	U	N3-C4-C5	-7.49	110.11	114.60
1	AA	895	G	N1-C6-O6	7.49	124.39	119.90
1	AA	1038	C	C5-C6-N1	7.49	124.75	121.00
35	BB	19	A	C8-N9-C4	-7.49	102.80	105.80
35	BB	615	U	C5-C4-O4	-7.49	121.41	125.90
35	BB	1276	A	C4-C5-C6	7.49	120.75	117.00
35	BB	1657	U	O4'-C1'-N1	7.49	114.19	108.20
13	AM	34	ALA	N-CA-CB	7.49	120.58	110.10
35	BB	103	A	N1-C2-N3	-7.49	125.56	129.30
35	BB	973	A	N7-C8-N9	7.49	117.54	113.80
35	BB	1026	G	C6-C5-N7	-7.49	125.91	130.40
35	BB	1324	G	N1-C6-O6	7.49	124.39	119.90
35	BB	1652	A	C5-C6-N1	-7.49	113.96	117.70
1	AA	917	G	C6-C5-N7	-7.49	125.91	130.40
35	BB	374	A	C5-C6-N6	-7.49	117.71	123.70
35	BB	1699	G	N9-C4-C5	7.49	108.39	105.40
1	AA	1117	A	C5-C6-N6	-7.49	117.71	123.70
1	AA	1419	G	C2-N3-C4	-7.49	108.16	111.90
1	AA	1503	A	C5-C6-N6	-7.49	117.71	123.70
35	BB	1692	U	O4'-C1'-N1	7.49	114.19	108.20
35	BB	2829	A	C5-C6-N6	-7.49	117.71	123.70
35	BB	2900	A	P-O3'-C3'	-7.49	110.72	119.70
1	AA	646	G	C4'-C3'-C2'	-7.48	95.12	102.60
1	AA	709	U	O4'-C1'-N1	7.48	114.19	108.20
1	AA	729	A	C8-N9-C4	-7.48	102.81	105.80
1	AA	748	G	C5-C6-O6	-7.48	124.11	128.60
1	AA	1374	A	N1-C2-N3	7.48	133.04	129.30
35	BB	718	A	O4'-C1'-N9	7.48	114.19	108.20
35	BB	1126	A	C4-C5-C6	7.48	120.74	117.00
35	BB	1642	G	C6-C5-N7	-7.48	125.91	130.40
1	AA	514	C	C6-N1-C2	-7.48	117.31	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	809	G	C6-C5-N7	-7.48	125.91	130.40
25	B0	45	PHE	CB-CG-CD2	-7.48	115.56	120.80
35	BB	513	A	N1-C2-N3	7.48	133.04	129.30
35	BB	1856	U	N1-C2-N3	-7.48	110.41	114.90
1	AA	1328	C	C6-N1-C2	-7.48	117.31	120.30
35	BB	1874	C	C5-C4-N4	-7.48	114.97	120.20
35	BB	2064	C	O4'-C1'-N1	7.48	114.18	108.20
1	AA	32	A	C8-N9-C4	-7.48	102.81	105.80
1	AA	749	A	C6-C5-N7	-7.48	127.07	132.30
5	AE	156	ARG	NE-CZ-NH2	-7.48	116.56	120.30
35	BB	759	G	O4'-C1'-N9	7.48	114.18	108.20
35	BB	831	G	N1-C6-O6	7.48	124.39	119.90
35	BB	2443	C	C4-C5-C6	-7.48	113.66	117.40
35	BB	2678	C	C4'-C3'-C2'	-7.48	95.12	102.60
1	AA	247	G	N1-C6-O6	7.48	124.39	119.90
1	AA	324	G	C5-C6-N1	-7.48	107.76	111.50
34	BA	58	A	C5-C6-N1	-7.48	113.96	117.70
35	BB	373	U	C5-C4-O4	-7.48	121.41	125.90
35	BB	580	U	C5-C4-O4	-7.48	121.41	125.90
35	BB	1202	G	C4-C5-C6	7.48	123.29	118.80
35	BB	1204	A	C5-N7-C8	7.48	107.64	103.90
35	BB	1240	U	N3-C2-O2	7.48	127.43	122.20
35	BB	1968	G	C6-C5-N7	-7.48	125.91	130.40
1	AA	1510	C	N3-C2-O2	-7.47	116.67	121.90
35	BB	959	A	O4'-C1'-N9	7.47	114.18	108.20
35	BB	1040	A	C1'-O4'-C4'	7.47	115.88	109.90
35	BB	1768	C	N3-C4-N4	7.47	123.23	118.00
35	BB	2362	C	O4'-C4'-C3'	-7.47	96.53	104.00
37	BD	43	ASP	CB-CG-OD2	7.47	125.03	118.30
1	AA	250	A	C6-N1-C2	7.47	123.08	118.60
1	AA	715	A	C5-C6-N1	-7.47	113.96	117.70
1	AA	1153	G	C8-N9-C4	-7.47	103.41	106.40
1	AA	1444	U	C5-C4-O4	-7.47	121.42	125.90
35	BB	241	A	O4'-C1'-N9	7.47	114.18	108.20
35	BB	2017	U	N3-C4-O4	7.47	124.63	119.40
1	AA	604	G	N3-C2-N2	7.47	125.13	119.90
1	AA	1061	G	N7-C8-N9	7.47	116.84	113.10
1	AA	1493	A	O4'-C1'-N9	7.47	114.18	108.20
1	AA	816	A	C1'-O4'-C4'	-7.47	103.92	109.90
35	BB	673	C	C6-N1-C1'	-7.47	111.84	120.80
35	BB	1374	G	C6-C5-N7	-7.47	125.92	130.40
35	BB	1430	G	N9-C4-C5	-7.47	102.41	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1891	G	N3-C4-C5	-7.47	124.86	128.60
35	BB	2535	G	N1-C6-O6	7.47	124.38	119.90
35	BB	146	A	C8-N9-C4	-7.47	102.81	105.80
35	BB	2178	C	C2-N3-C4	7.47	123.63	119.90
1	AA	647	C	N3-C4-N4	7.47	123.23	118.00
1	AA	1032	G	C4-C5-C6	7.47	123.28	118.80
1	AA	1172	C	C6-N1-C2	-7.47	117.31	120.30
35	BB	1058	U	N3-C4-O4	7.47	124.63	119.40
35	BB	2158	A	N7-C8-N9	7.47	117.53	113.80
1	AA	9	G	N9-C4-C5	-7.46	102.41	105.40
1	AA	99	C	N1-C2-O2	7.46	123.38	118.90
1	AA	722	G	C5-C6-N1	-7.46	107.77	111.50
1	AA	1009	U	P-O3'-C3'	7.46	128.66	119.70
1	AA	1344	C	C4'-C3'-C2'	-7.46	95.14	102.60
35	BB	108	G	C2-N3-C4	7.46	115.63	111.90
35	BB	182	A	N1-C2-N3	7.46	133.03	129.30
35	BB	495	G	N1-C2-N3	-7.46	119.42	123.90
35	BB	618	G	C4-C5-C6	7.46	123.28	118.80
1	AA	319	G	C6-N1-C2	7.46	129.58	125.10
1	AA	1222	G	N1-C2-N3	-7.46	119.42	123.90
35	BB	1722	A	O4'-C1'-N9	7.46	114.17	108.20
35	BB	2053	G	N3-C2-N2	7.46	125.12	119.90
35	BB	2780	G	N3-C2-N2	7.46	125.12	119.90
1	AA	676	A	C5-C6-N6	-7.46	117.73	123.70
1	AA	1497	G	N7-C8-N9	-7.46	109.37	113.10
1	AA	1524	C	O4'-C1'-N1	7.46	114.17	108.20
22	AV	41	C	O4'-C1'-N1	7.46	114.17	108.20
35	BB	249	C	P-O3'-C3'	7.46	128.65	119.70
35	BB	459	U	N3-C4-O4	7.46	124.62	119.40
35	BB	564	C	O4'-C1'-N1	7.46	114.17	108.20
35	BB	608	A	C4-C5-C6	7.46	120.73	117.00
35	BB	938	G	C4-C5-N7	7.46	113.78	110.80
35	BB	1085	A	N9-C4-C5	7.46	108.78	105.80
35	BB	1099	G	N1-C2-N3	-7.46	119.42	123.90
35	BB	1678	A	C6-N1-C2	-7.46	114.12	118.60
35	BB	2322	A	O4'-C1'-N9	7.46	114.17	108.20
35	BB	2531	A	N7-C8-N9	-7.46	110.07	113.80
35	BB	2876	G	O4'-C1'-N9	7.46	114.17	108.20
35	BB	303	G	N1-C6-O6	7.46	124.38	119.90
35	BB	614	A	C1'-O4'-C4'	-7.46	103.93	109.90
1	AA	604	G	C6-C5-N7	-7.46	125.92	130.40
1	AA	711	G	C4-C5-N7	7.46	113.78	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	825	A	C5-N7-C8	-7.46	100.17	103.90
34	BA	50	A	O4'-C4'-C3'	-7.46	96.54	104.00
35	BB	21	A	C6-C5-N7	-7.46	127.08	132.30
35	BB	711	G	C2-N3-C4	7.46	115.63	111.90
35	BB	1206	G	N3-C4-C5	7.46	132.33	128.60
35	BB	1277	G	N9-C4-C5	7.46	108.38	105.40
35	BB	2006	C	C5-C6-N1	-7.46	117.27	121.00
35	BB	2477	U	N3-C4-C5	-7.46	110.12	114.60
35	BB	2744	G	C5-C6-O6	-7.46	124.12	128.60
1	AA	47	C	O4'-C1'-N1	7.46	114.17	108.20
1	AA	1287	A	C5-N7-C8	7.46	107.63	103.90
35	BB	760	G	N3-C2-N2	7.46	125.12	119.90
35	BB	1102	C	O4'-C1'-N1	7.46	114.17	108.20
35	BB	1261	C	C4'-C3'-C2'	-7.46	95.14	102.60
35	BB	1565	C	C5-C4-N4	-7.46	114.98	120.20
35	BB	1689	A	C5-N7-C8	7.46	107.63	103.90
35	BB	1902	C	C5-C4-N4	-7.46	114.98	120.20
35	BB	2047	C	C6-N1-C2	-7.46	117.32	120.30
35	BB	2468	A	N7-C8-N9	-7.46	110.07	113.80
1	AA	503	C	C5-C6-N1	7.46	124.73	121.00
35	BB	154	U	C5-C6-N1	7.46	126.43	122.70
35	BB	418	C	N3-C4-C5	-7.46	118.92	121.90
35	BB	1616	A	C5-C6-N1	7.46	121.43	117.70
35	BB	1818	U	N1-C2-N3	-7.46	110.43	114.90
35	BB	2051	A	N1-C6-N6	7.46	123.07	118.60
36	BC	261	ARG	NE-CZ-NH1	7.46	124.03	120.30
1	AA	402	G	C5-N7-C8	7.45	108.03	104.30
22	AV	2	G	C6-N1-C2	7.45	129.57	125.10
35	BB	432	A	C5-N7-C8	7.45	107.63	103.90
35	BB	1121	C	N3-C4-C5	-7.45	118.92	121.90
35	BB	1475	G	C4-C5-C6	7.45	123.27	118.80
35	BB	2145	C	C5-C6-N1	7.45	124.73	121.00
35	BB	2485	G	O4'-C1'-N9	7.45	114.16	108.20
35	BB	2536	G	C8-N9-C4	-7.45	103.42	106.40
1	AA	198	G	C4-C5-N7	7.45	113.78	110.80
1	AA	1153	G	C5-C6-O6	-7.45	124.13	128.60
8	AH	83	ARG	NH1-CZ-NH2	7.45	127.60	119.40
35	BB	483	A	C5-N7-C8	7.45	107.63	103.90
35	BB	824	U	N3-C4-O4	-7.45	114.18	119.40
35	BB	1100	C	C5-C4-N4	-7.45	114.98	120.20
35	BB	1196	C	N1-C2-N3	-7.45	113.98	119.20
35	BB	1623	G	O4'-C1'-N9	7.45	114.16	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	682	G	N7-C8-N9	-7.45	109.38	113.10
34	BA	87	U	N1-C2-N3	-7.45	110.43	114.90
35	BB	143	C	C2-N3-C4	7.45	123.63	119.90
35	BB	1028	A	O4'-C1'-N9	7.45	114.16	108.20
1	AA	167	A	C4-C5-C6	7.45	120.72	117.00
1	AA	507	C	C5-C4-N4	-7.45	114.99	120.20
1	AA	988	G	C3'-C2'-C1'	-7.45	95.54	101.50
1	AA	1075	U	N3-C4-O4	7.45	124.61	119.40
1	AA	1282	C	N1-C2-O2	-7.45	114.43	118.90
35	BB	221	A	N3-C4-N9	7.45	133.36	127.40
35	BB	698	C	N3-C4-N4	7.45	123.21	118.00
35	BB	952	G	C8-N9-C1'	7.45	136.68	127.00
35	BB	1338	G	C6-C5-N7	-7.45	125.93	130.40
35	BB	2190	G	N9-C4-C5	-7.45	102.42	105.40
35	BB	2426	A	P-O3'-C3'	7.45	128.64	119.70
1	AA	542	G	C5-C6-O6	-7.45	124.13	128.60
1	AA	749	A	N1-C6-N6	7.45	123.07	118.60
35	BB	1123	C	C5-C4-N4	-7.45	114.99	120.20
35	BB	1622	G	N1-C2-N3	-7.45	119.43	123.90
35	BB	1767	G	C4-C5-C6	7.45	123.27	118.80
50	BQ	52	ARG	NE-CZ-NH1	7.45	124.02	120.30
1	AA	735	C	N1-C2-O2	-7.45	114.43	118.90
15	AO	68	TYR	CG-CD2-CE2	-7.45	115.34	121.30
35	BB	538	A	C5-C6-N1	-7.45	113.98	117.70
35	BB	752	A	P-O3'-C3'	7.45	128.63	119.70
35	BB	1025	G	N3-C4-N9	7.45	130.47	126.00
35	BB	1032	A	O4'-C1'-N9	7.45	114.16	108.20
35	BB	1697	G	C5-C6-N1	-7.45	107.78	111.50
1	AA	798	U	C6-N1-C2	7.44	125.47	121.00
1	AA	1284	C	C6-N1-C1'	-7.44	111.87	120.80
35	BB	1629	U	O4'-C1'-N1	7.44	114.16	108.20
1	AA	780	A	N1-C6-N6	7.44	123.06	118.60
1	AA	918	A	C5-C6-N6	-7.44	117.75	123.70
35	BB	10	A	O4'-C1'-N9	7.44	114.15	108.20
35	BB	140	C	O4'-C1'-N1	7.44	114.15	108.20
35	BB	1555	G	C5-C6-N1	-7.44	107.78	111.50
35	BB	2132	U	N3-C4-O4	7.44	124.61	119.40
35	BB	2779	U	C3'-C2'-C1'	-7.44	95.55	101.50
49	BP	108	ARG	NE-CZ-NH1	-7.44	116.58	120.30
1	AA	530	G	C6-C5-N7	-7.44	125.94	130.40
1	AA	602	A	C4-C5-C6	7.44	120.72	117.00
1	AA	770	C	C4-C5-C6	7.44	121.12	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	35	G	C6-C5-N7	-7.44	125.94	130.40
35	BB	285	G	N3-C4-C5	-7.44	124.88	128.60
35	BB	1086	A	O4'-C1'-N9	7.44	114.15	108.20
35	BB	1136	G	N3-C4-N9	7.44	130.47	126.00
35	BB	2787	C	N1-C2-N3	-7.44	113.99	119.20
1	AA	1051	C	C5-C6-N1	7.44	124.72	121.00
1	AA	1054	C	C6-N1-C1'	-7.44	111.87	120.80
1	AA	1409	C	C5-C6-N1	7.44	124.72	121.00
35	BB	552	U	C5-C6-N1	7.44	126.42	122.70
1	AA	1248	A	C5-C6-N6	-7.44	117.75	123.70
1	AA	1415	G	C8-N9-C4	-7.44	103.42	106.40
35	BB	226	A	N1-C6-N6	7.44	123.06	118.60
35	BB	413	C	O4'-C1'-N1	7.44	114.15	108.20
35	BB	2070	A	N9-C4-C5	-7.44	102.83	105.80
1	AA	322	C	O4'-C1'-N1	7.44	114.15	108.20
1	AA	1046	A	C4'-C3'-C2'	-7.44	95.16	102.60
35	BB	73	A	N9-C4-C5	7.44	108.77	105.80
35	BB	1883	U	O4'-C1'-N1	7.44	114.15	108.20
35	BB	2148	G	C2-N3-C4	7.44	115.62	111.90
35	BB	2369	A	C1'-O4'-C4'	7.44	115.85	109.90
1	AA	31	G	C4-C5-N7	7.43	113.77	110.80
34	BA	28	C	N3-C4-N4	7.43	123.20	118.00
35	BB	446	G	C5-C6-O6	-7.43	124.14	128.60
35	BB	1201	U	N1-C2-O2	-7.43	117.60	122.80
35	BB	1910	G	C4-C5-N7	7.43	113.77	110.80
1	AA	360	G	C6-C5-N7	-7.43	125.94	130.40
1	AA	724	G	O4'-C1'-N9	7.43	114.15	108.20
35	BB	68	G	C4'-C3'-C2'	-7.43	95.17	102.60
35	BB	317	G	N3-C4-C5	7.43	132.32	128.60
35	BB	1911	U	C5-C6-N1	7.43	126.42	122.70
35	BB	2176	A	C4-C5-C6	7.43	120.72	117.00
35	BB	2489	U	O4'-C1'-N1	7.43	114.15	108.20
1	AA	384	G	N3-C4-N9	7.43	130.46	126.00
35	BB	63	A	C5-N7-C8	7.43	107.61	103.90
35	BB	2588	G	P-O3'-C3'	-7.43	110.78	119.70
35	BB	2862	G	N3-C4-C5	-7.43	124.88	128.60
1	AA	193	C	C5-C6-N1	7.43	124.72	121.00
1	AA	626	G	N1-C2-N3	-7.43	119.44	123.90
35	BB	402	A	O4'-C1'-N9	7.43	114.14	108.20
35	BB	627	A	O4'-C1'-N9	7.43	114.14	108.20
35	BB	992	C	C5-C4-N4	7.43	125.40	120.20
35	BB	1489	C	O4'-C1'-N1	7.43	114.14	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1715	G	N1-C6-O6	7.43	124.36	119.90
35	BB	2561	U	C6-N1-C2	-7.43	116.54	121.00
1	AA	493	A	N7-C8-N9	7.43	117.51	113.80
1	AA	957	U	C5-C6-N1	7.43	126.41	122.70
35	BB	1608	A	C4-C5-C6	7.43	120.71	117.00
1	AA	77	A	C6-C5-N7	-7.43	127.10	132.30
1	AA	455	G	N1-C6-O6	7.43	124.36	119.90
1	AA	818	G	C5-N7-C8	-7.43	100.59	104.30
1	AA	841	C	N3-C4-N4	7.43	123.20	118.00
35	BB	770	G	N9-C4-C5	-7.43	102.43	105.40
35	BB	1107	G	C1'-O4'-C4'	7.43	115.84	109.90
35	BB	1441	G	O4'-C1'-N9	7.43	114.14	108.20
35	BB	1585	C	N3-C4-N4	7.43	123.20	118.00
35	BB	1638	C	C5-C4-N4	-7.43	115.00	120.20
35	BB	1813	G	C4-C5-C6	7.43	123.26	118.80
35	BB	2152	G	N3-C2-N2	7.43	125.10	119.90
35	BB	2187	U	O4'-C1'-N1	7.43	114.14	108.20
35	BB	2739	U	N3-C2-O2	-7.43	117.00	122.20
1	AA	198	G	N9-C4-C5	-7.42	102.43	105.40
1	AA	774	G	C4-C5-C6	7.42	123.25	118.80
1	AA	1173	U	N1-C2-O2	7.42	128.00	122.80
35	BB	128	C	N3-C2-O2	-7.42	116.70	121.90
35	BB	2776	A	C4-C5-N7	-7.42	106.99	110.70
35	BB	1478	G	C6-N1-C2	7.42	129.55	125.10
35	BB	1583	A	O4'-C1'-N9	7.42	114.14	108.20
35	BB	2411	A	C6-C5-N7	-7.42	127.10	132.30
35	BB	487	C	N1-C2-N3	-7.42	114.00	119.20
35	BB	1306	C	N1-C2-O2	7.42	123.35	118.90
35	BB	1905	C	N3-C4-N4	7.42	123.19	118.00
1	AA	122	G	C4-C5-N7	-7.42	107.83	110.80
1	AA	1210	C	C4-C5-C6	7.42	121.11	117.40
35	BB	429	A	C5-C6-N1	-7.42	113.99	117.70
35	BB	431	U	N3-C4-C5	-7.42	110.15	114.60
35	BB	2667	C	O4'-C1'-N1	7.42	114.14	108.20
1	AA	104	G	N3-C2-N2	7.42	125.09	119.90
1	AA	347	G	C4'-C3'-C2'	-7.42	95.18	102.60
1	AA	1016	A	C2-N3-C4	-7.42	106.89	110.60
35	BB	67	U	N1-C2-N3	-7.42	110.45	114.90
35	BB	213	A	O4'-C1'-N9	7.42	114.13	108.20
35	BB	668	A	C4-C5-N7	-7.42	106.99	110.70
35	BB	1576	U	C4-C5-C6	-7.42	115.25	119.70
35	BB	1699	G	C5'-C4'-O4'	7.42	118.00	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1797	G	C6-N1-C2	7.42	129.55	125.10
35	BB	1861	G	N3-C2-N2	7.42	125.09	119.90
35	BB	2332	C	C5-C6-N1	7.42	124.71	121.00
1	AA	93	U	O4'-C1'-N1	7.42	114.13	108.20
1	AA	557	G	C4-C5-C6	7.42	123.25	118.80
1	AA	1345	U	O4'-C1'-N1	7.42	114.13	108.20
35	BB	355	U	C2-N3-C4	7.42	131.45	127.00
35	BB	1021	A	C5-C6-N1	-7.42	113.99	117.70
35	BB	1187	G	N7-C8-N9	7.42	116.81	113.10
35	BB	1498	C	C4-C5-C6	7.42	121.11	117.40
35	BB	1785	A	N7-C8-N9	-7.42	110.09	113.80
35	BB	2674	G	N3-C4-C5	-7.42	124.89	128.60
35	BB	2735	G	C4-C5-C6	7.42	123.25	118.80
1	AA	887	G	O4'-C1'-N9	7.41	114.13	108.20
34	BA	105	G	N7-C8-N9	-7.41	109.39	113.10
35	BB	185	G	C8-N9-C4	-7.41	103.44	106.40
35	BB	217	A	C2-N3-C4	7.41	114.31	110.60
35	BB	294	A	C5-N7-C8	7.41	107.61	103.90
35	BB	1291	C	C6-N1-C2	-7.41	117.33	120.30
35	BB	2024	G	C2-N3-C4	7.41	115.61	111.90
35	BB	2224	G	N3-C4-C5	-7.41	124.89	128.60
1	AA	294	U	C5-C4-O4	-7.41	121.45	125.90
35	BB	348	A	C5-C6-N6	-7.41	117.77	123.70
35	BB	1090	A	C5-C6-N1	-7.41	113.99	117.70
35	BB	1842	G	C5-C6-N1	-7.41	107.79	111.50
35	BB	2320	U	C4-C5-C6	-7.41	115.25	119.70
1	AA	160	A	C5-C6-N1	-7.41	114.00	117.70
1	AA	524	G	C6-C5-N7	-7.41	125.95	130.40
1	AA	831	A	C5-N7-C8	7.41	107.61	103.90
35	BB	661	A	O4'-C1'-N9	7.41	114.13	108.20
35	BB	955	U	C4-C5-C6	-7.41	115.25	119.70
35	BB	1133	A	N1-C6-N6	7.41	123.05	118.60
35	BB	1512	C	C5-C4-N4	-7.41	115.01	120.20
35	BB	2275	C	N1-C2-O2	7.41	123.35	118.90
35	BB	2385	C	C5-C6-N1	7.41	124.70	121.00
1	AA	286	C	C6-N1-C1'	-7.41	111.91	120.80
35	BB	167	A	N1-C6-N6	7.41	123.05	118.60
35	BB	363	G	N9-C4-C5	-7.41	102.44	105.40
35	BB	864	G	N3-C2-N2	7.41	125.09	119.90
35	BB	1160	G	C8-N9-C4	-7.41	103.44	106.40
35	BB	1232	G	C8-N9-C4	-7.41	103.44	106.40
35	BB	1473	G	N9-C4-C5	7.41	108.36	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2269	G	O4'-C1'-N9	7.41	114.13	108.20
35	BB	2885	G	N3-C4-C5	7.41	132.30	128.60
1	AA	504	C	C6-N1-C2	-7.41	117.34	120.30
1	AA	842	U	N1-C2-N3	-7.41	110.46	114.90
1	AA	1420	U	C4'-C3'-C2'	-7.41	95.19	102.60
35	BB	68	G	C2-N3-C4	7.41	115.60	111.90
35	BB	485	C	C5-C4-N4	-7.41	115.02	120.20
35	BB	496	G	C6-C5-N7	-7.41	125.96	130.40
35	BB	2700	A	N3-C4-C5	-7.41	121.61	126.80
1	AA	908	A	N9-C4-C5	7.41	108.76	105.80
35	BB	479	A	N1-C6-N6	7.41	123.04	118.60
35	BB	817	C	N3-C4-N4	7.41	123.18	118.00
35	BB	1350	C	N3-C4-C5	-7.41	118.94	121.90
35	BB	1352	U	N3-C4-O4	7.41	124.58	119.40
35	BB	2303	G	N1-C6-O6	7.41	124.34	119.90
35	BB	2352	A	N9-C4-C5	-7.41	102.84	105.80
35	BB	2778	A	N7-C8-N9	-7.41	110.10	113.80
35	BB	1506	U	P-O5'-C5'	7.40	132.75	120.90
1	AA	380	G	N3-C2-N2	7.40	125.08	119.90
1	AA	927	G	C6-N1-C2	7.40	129.54	125.10
35	BB	388	G	O4'-C1'-N9	7.40	114.12	108.20
35	BB	1153	C	N3-C4-C5	7.40	124.86	121.90
35	BB	2346	A	C8-N9-C4	-7.40	102.84	105.80
35	BB	2355	G	N1-C6-O6	7.40	124.34	119.90
35	BB	2423	U	N3-C4-C5	-7.40	110.16	114.60
35	BB	2565	A	C2-N3-C4	7.40	114.30	110.60
35	BB	2648	G	N9-C4-C5	-7.40	102.44	105.40
1	AA	484	G	C8-N9-C4	7.40	109.36	106.40
1	AA	837	U	N3-C4-O4	7.40	124.58	119.40
1	AA	1032	G	C6-C5-N7	-7.40	125.96	130.40
1	AA	1067	A	C5'-C4'-C3'	-7.40	104.16	116.00
1	AA	1175	G	C8-N9-C4	7.40	109.36	106.40
35	BB	1104	C	O4'-C1'-N1	7.40	114.12	108.20
1	AA	76	G	C4'-C3'-C2'	-7.40	95.20	102.60
1	AA	523	A	C6-N1-C2	-7.40	114.16	118.60
1	AA	1279	G	C2-N3-C4	7.40	115.60	111.90
1	AA	305	G	C4-C5-N7	-7.40	107.84	110.80
35	BB	196	A	O4'-C1'-N9	7.40	114.12	108.20
35	BB	266	G	C8-N9-C4	7.40	109.36	106.40
35	BB	406	G	P-O5'-C5'	-7.40	109.06	120.90
35	BB	604	G	N1-C2-N3	-7.40	119.46	123.90
35	BB	649	G	N7-C8-N9	7.40	116.80	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	753	A	C2-N3-C4	-7.40	106.90	110.60
35	BB	1178	C	C5-C6-N1	7.40	124.70	121.00
35	BB	1587	G	O4'-C1'-N9	7.40	114.12	108.20
35	BB	1907	G	C6-N1-C2	7.40	129.54	125.10
35	BB	2276	G	C4-C5-N7	7.40	113.76	110.80
35	BB	2788	C	C5-C4-N4	-7.40	115.02	120.20
35	BB	2789	C	C5-C4-N4	-7.40	115.02	120.20
1	AA	253	A	N3-C4-N9	7.40	133.32	127.40
1	AA	847	G	C4-N9-C1'	-7.40	116.89	126.50
35	BB	848	C	O4'-C1'-N1	7.40	114.12	108.20
35	BB	1836	C	C5-C6-N1	7.40	124.70	121.00
1	AA	801	U	O4'-C1'-N1	7.39	114.11	108.20
1	AA	864	A	O4'-C1'-N9	7.39	114.12	108.20
1	AA	1309	G	O4'-C1'-N9	7.39	114.11	108.20
14	AN	64	ARG	NE-CZ-NH2	7.39	124.00	120.30
35	BB	643	A	C5-C6-N1	-7.39	114.00	117.70
35	BB	705	A	C4-C5-C6	7.39	120.70	117.00
35	BB	728	G	N9-C4-C5	-7.39	102.44	105.40
35	BB	1168	G	O5'-P-OP2	-7.39	99.05	105.70
35	BB	2037	A	C4-C5-C6	7.39	120.70	117.00
1	AA	310	G	C5-N7-C8	7.39	108.00	104.30
1	AA	1382	C	O4'-C1'-N1	7.39	114.11	108.20
35	BB	142	A	N1-C2-N3	7.39	133.00	129.30
35	BB	529	A	C5-N7-C8	7.39	107.60	103.90
35	BB	559	G	C8-N9-C4	-7.39	103.44	106.40
35	BB	1832	C	C5-C4-N4	-7.39	115.03	120.20
35	BB	2134	A	C4-C5-C6	7.39	120.70	117.00
35	BB	2225	A	O4'-C1'-N9	7.39	114.11	108.20
35	BB	2281	A	C4-C5-C6	7.39	120.70	117.00
35	BB	2433	A	C5-C6-N1	-7.39	114.00	117.70
1	AA	913	A	N3-C4-C5	-7.39	121.63	126.80
35	BB	530	G	C6-C5-N7	-7.39	125.97	130.40
35	BB	598	U	C2-N3-C4	-7.39	122.56	127.00
35	BB	1598	A	C5-C6-N6	-7.39	117.79	123.70
35	BB	1745	A	O4'-C1'-N9	7.39	114.11	108.20
35	BB	1970	A	N1-C2-N3	-7.39	125.61	129.30
1	AA	85	U	C6-N1-C1'	-7.39	110.85	121.20
1	AA	1025	U	C6-N1-C2	7.39	125.43	121.00
1	AA	1085	U	N1-C2-N3	-7.39	110.47	114.90
1	AA	1229	A	C4-C5-C6	7.39	120.69	117.00
1	AA	1416	G	P-O5'-C5'	7.39	132.72	120.90
1	AA	1493	A	C4'-C3'-C2'	-7.39	95.21	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	975	A	N1-C6-N6	7.39	123.03	118.60
35	BB	2159	G	C5-N7-C8	7.39	107.99	104.30
35	BB	2612	C	C1'-O4'-C4'	7.39	115.81	109.90
9	AI	105	ARG	NE-CZ-NH1	7.39	123.99	120.30
35	BB	847	U	C5-C4-O4	-7.39	121.47	125.90
35	BB	2321	U	P-O3'-C3'	-7.39	110.83	119.70
35	BB	2406	A	C1'-O4'-C4'	-7.39	103.99	109.90
1	AA	944	G	C5-C6-O6	-7.39	124.17	128.60
34	BA	88	C	N3-C4-C5	-7.39	118.95	121.90
35	BB	3	U	O4'-C1'-N1	7.39	114.11	108.20
35	BB	257	C	C6-N1-C2	-7.39	117.34	120.30
35	BB	752	A	C1'-O4'-C4'	-7.39	103.99	109.90
35	BB	768	G	C4-C5-N7	7.39	113.75	110.80
35	BB	853	C	C5-C6-N1	7.39	124.69	121.00
35	BB	871	U	O4'-C1'-N1	7.39	114.11	108.20
35	BB	1420	A	C5-C6-N1	-7.39	114.01	117.70
35	BB	1630	A	C5-C6-N6	-7.39	117.79	123.70
35	BB	2131	U	O4'-C1'-N1	7.39	114.11	108.20
35	BB	2782	G	C5-C6-O6	-7.39	124.17	128.60
1	AA	178	C	C6-N1-C2	7.38	123.25	120.30
1	AA	182	A	C5-C6-N1	-7.38	114.01	117.70
1	AA	300	A	C5-C6-N6	-7.38	117.79	123.70
35	BB	163	C	C2-N3-C4	-7.38	116.21	119.90
35	BB	286	U	O4'-C1'-N1	7.38	114.11	108.20
35	BB	530	G	C5-C6-O6	-7.38	124.17	128.60
35	BB	764	A	C6-N1-C2	7.38	123.03	118.60
35	BB	1205	A	C6-N1-C2	-7.38	114.17	118.60
35	BB	1302	A	C5-N7-C8	7.38	107.59	103.90
35	BB	1533	C	P-O5'-C5'	7.38	132.71	120.90
35	BB	2520	C	C4-C5-C6	7.38	121.09	117.40
1	AA	328	C	N1-C2-N3	-7.38	114.03	119.20
1	AA	1223	C	N3-C4-N4	7.38	123.17	118.00
14	AN	41	TRP	CB-CG-CD1	7.38	136.60	127.00
35	BB	758	C	C5-C6-N1	7.38	124.69	121.00
35	BB	1393	A	O4'-C4'-C3'	7.38	112.01	106.10
1	AA	1041	G	C5-C6-O6	-7.38	124.17	128.60
1	AA	1172	C	N3-C2-O2	7.38	127.07	121.90
35	BB	184	C	O4'-C1'-N1	7.38	114.11	108.20
35	BB	1240	U	O4'-C1'-N1	7.38	114.11	108.20
35	BB	1361	G	C4-C5-C6	7.38	123.23	118.80
35	BB	1912	A	C4-C5-C6	7.38	120.69	117.00
35	BB	2779	U	C1'-O4'-C4'	-7.38	104.00	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	289	G	C6-N1-C2	-7.38	120.67	125.10
1	AA	732	C	C6-N1-C2	-7.38	117.35	120.30
35	BB	318	C	C6-N1-C2	-7.38	117.35	120.30
35	BB	1027	A	C4-C5-C6	7.38	120.69	117.00
35	BB	1059	G	N1-C2-N3	-7.38	119.47	123.90
35	BB	1220	G	O4'-C1'-N9	7.38	114.10	108.20
35	BB	1329	U	C2-N3-C4	7.38	131.43	127.00
1	AA	90	C	N3-C4-N4	7.38	123.17	118.00
1	AA	340	U	O4'-C1'-N1	7.38	114.10	108.20
1	AA	426	U	O4'-C1'-N1	7.38	114.10	108.20
1	AA	1310	G	C6-N1-C2	-7.38	120.67	125.10
1	AA	1416	G	C6-C5-N7	-7.38	125.97	130.40
2	AB	125	PHE	CB-CG-CD1	7.38	125.97	120.80
23	AX	19	A	N1-C2-N3	7.38	132.99	129.30
34	BA	18	G	N1-C6-O6	7.38	124.33	119.90
35	BB	387	U	N3-C4-C5	-7.38	110.17	114.60
35	BB	602	A	C6-N1-C2	7.38	123.03	118.60
35	BB	2746	U	C5-C6-N1	7.38	126.39	122.70
1	AA	125	U	N3-C4-O4	7.38	124.56	119.40
1	AA	327	A	N3-C4-C5	-7.38	121.64	126.80
1	AA	742	G	C5-C6-O6	-7.38	124.17	128.60
1	AA	1150	A	O4'-C1'-N9	7.38	114.10	108.20
34	BA	4	C	C1'-O4'-C4'	7.38	115.80	109.90
35	BB	466	A	C5-C6-N6	-7.38	117.80	123.70
1	AA	55	A	O4'-C1'-N9	7.38	114.10	108.20
1	AA	362	G	C6-C5-N7	-7.37	125.98	130.40
1	AA	781	A	C4-C5-N7	-7.37	107.01	110.70
1	AA	809	G	N1-C6-O6	7.37	124.32	119.90
1	AA	1465	A	C4-C5-C6	7.37	120.69	117.00
1	AA	1529	G	C5-C6-O6	-7.37	124.18	128.60
35	BB	54	G	N3-C4-N9	7.37	130.43	126.00
35	BB	450	G	C5-C6-O6	-7.37	124.17	128.60
35	BB	940	G	C2-N3-C4	-7.37	108.21	111.90
35	BB	1073	A	C5-C6-N1	-7.37	114.01	117.70
35	BB	1447	C	N3-C4-N4	7.37	123.16	118.00
35	BB	1544	A	C4'-C3'-C2'	-7.37	95.23	102.60
35	BB	2594	C	C5-C6-N1	7.37	124.69	121.00
35	BB	2851	A	C5-C6-N6	-7.37	117.80	123.70
1	AA	784	A	C5-C6-N1	-7.37	114.01	117.70
1	AA	803	G	C5-C6-O6	-7.37	124.18	128.60
1	AA	831	A	O4'-C1'-N9	7.37	114.10	108.20
1	AA	1011	C	O4'-C1'-N1	7.37	114.10	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1416	G	C6-N1-C2	7.37	129.52	125.10
35	BB	239	C	C2-N1-C1'	7.37	126.91	118.80
35	BB	324	A	N1-C2-N3	-7.37	125.61	129.30
35	BB	332	A	P-O3'-C3'	7.37	128.54	119.70
35	BB	439	A	C6-C5-N7	-7.37	127.14	132.30
35	BB	467	G	N1-C2-N3	-7.37	119.48	123.90
35	BB	1013	C	O4'-C1'-N1	7.37	114.10	108.20
35	BB	1111	A	N1-C2-N3	7.37	132.99	129.30
35	BB	1622	G	C6-C5-N7	-7.37	125.98	130.40
1	AA	179	A	C2-N3-C4	7.37	114.28	110.60
1	AA	403	C	N3-C4-C5	-7.37	118.95	121.90
1	AA	1220	G	C6-N1-C2	-7.37	120.68	125.10
15	AO	52	ARG	NE-CZ-NH1	-7.37	116.61	120.30
27	B2	52	PHE	CB-CG-CD2	-7.37	115.64	120.80
35	BB	143	C	N3-C4-C5	-7.37	118.95	121.90
35	BB	1204	A	N7-C8-N9	-7.37	110.11	113.80
35	BB	1583	A	C6-N1-C2	-7.37	114.18	118.60
1	AA	811	C	C1'-O4'-C4'	7.37	115.80	109.90
18	AR	63	TYR	CB-CG-CD1	7.37	125.42	121.00
34	BA	53	A	C2-N3-C4	7.37	114.28	110.60
1	AA	75	G	C2-N3-C4	-7.37	108.22	111.90
1	AA	451	A	C6-C5-N7	-7.37	127.14	132.30
6	AF	44	ARG	NE-CZ-NH1	7.37	123.98	120.30
35	BB	75	G	C4-C5-C6	7.37	123.22	118.80
35	BB	777	G	O4'-C1'-N9	7.37	114.09	108.20
35	BB	2347	C	O4'-C1'-N1	7.37	114.09	108.20
1	AA	474	G	N7-C8-N9	-7.36	109.42	113.10
1	AA	1195	C	N1-C2-O2	7.36	123.32	118.90
35	BB	673	C	C6-N1-C2	-7.36	117.36	120.30
35	BB	1464	G	N1-C2-N3	-7.36	119.48	123.90
35	BB	1941	C	N1-C2-O2	-7.36	114.48	118.90
50	BQ	24	TYR	CB-CG-CD1	-7.36	116.58	121.00
55	BW	26	PHE	CB-CG-CD1	-7.36	115.64	120.80
1	AA	506	G	C5-N7-C8	7.36	107.98	104.30
22	AV	3	G	N3-C2-N2	7.36	125.05	119.90
35	BB	2168	G	O4'-C1'-N9	7.36	114.09	108.20
1	AA	171	A	C5-C6-N1	-7.36	114.02	117.70
1	AA	331	G	C5-C6-N1	7.36	115.18	111.50
1	AA	665	A	C5-C6-N6	-7.36	117.81	123.70
1	AA	773	G	C4-C5-C6	7.36	123.22	118.80
34	BA	92	C	O4'-C1'-N1	7.36	114.09	108.20
34	BA	109	A	O4'-C1'-N9	7.36	114.09	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	789	A	C6-N1-C2	-7.36	114.18	118.60
35	BB	792	A	C2-N3-C4	-7.36	106.92	110.60
35	BB	794	A	C4-C5-C6	7.36	120.68	117.00
35	BB	1265	A	C4-C5-C6	7.36	120.68	117.00
35	BB	2216	G	N1-C2-N3	-7.36	119.48	123.90
35	BB	2250	G	N1-C2-N2	7.36	122.83	116.20
35	BB	2879	A	N1-C6-N6	7.36	123.02	118.60
35	BB	2820	A	C6-C5-N7	-7.36	127.15	132.30
1	AA	1353	G	C5-C6-O6	-7.36	124.19	128.60
1	AA	1481	U	C5-C6-N1	7.36	126.38	122.70
22	AV	22	G	C5-C6-O6	-7.36	124.19	128.60
35	BB	1660	G	O4'-C1'-N9	7.36	114.09	108.20
35	BB	2049	G	C8-N9-C4	-7.36	103.46	106.40
35	BB	240	C	O4'-C1'-N1	7.36	114.08	108.20
35	BB	290	U	C2-N3-C4	-7.36	122.59	127.00
35	BB	309	A	C5-C6-N6	-7.36	117.82	123.70
35	BB	1540	G	C5-C6-N1	-7.36	107.82	111.50
35	BB	1664	A	C5'-C4'-O4'	7.36	117.93	109.10
35	BB	1775	U	N3-C4-O4	7.36	124.55	119.40
35	BB	2670	A	C2-N3-C4	-7.36	106.92	110.60
35	BB	2873	A	N1-C6-N6	7.36	123.01	118.60
34	BA	81	G	C5-C6-O6	-7.35	124.19	128.60
35	BB	633	A	O4'-C1'-N9	7.35	114.08	108.20
35	BB	2335	A	O4'-C1'-N9	7.35	114.08	108.20
1	AA	279	A	C5-C6-N6	-7.35	117.82	123.70
35	BB	392	U	O4'-C1'-N1	7.35	114.08	108.20
35	BB	627	A	C3'-C2'-C1'	-7.35	95.62	101.50
35	BB	1002	G	N1-C6-O6	7.35	124.31	119.90
35	BB	1176	U	C5-C6-N1	7.35	126.38	122.70
35	BB	1186	G	N9-C4-C5	-7.35	102.46	105.40
35	BB	1606	C	C1'-O4'-C4'	-7.35	104.02	109.90
1	AA	1492	A	C5-C6-N6	-7.35	117.82	123.70
35	BB	205	G	C5'-C4'-O4'	7.35	117.92	109.10
35	BB	469	G	O4'-C1'-N9	7.35	114.08	108.20
35	BB	808	G	C5-C6-O6	-7.35	124.19	128.60
35	BB	1134	A	N9-C4-C5	7.35	108.74	105.80
35	BB	2642	G	C4'-C3'-C2'	-7.35	95.25	102.60
35	BB	2796	U	N3-C4-O4	7.35	124.54	119.40
35	BB	20	C	C6-N1-C2	-7.35	117.36	120.30
35	BB	1183	U	C1'-O4'-C4'	7.35	115.78	109.90
35	BB	1479	G	O4'-C1'-N9	7.35	114.08	108.20
35	BB	1922	G	C5-N7-C8	-7.35	100.63	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2753	A	C4-C5-N7	-7.35	107.03	110.70
1	AA	176	C	N3-C4-N4	7.35	123.14	118.00
1	AA	1334	G	C3'-C2'-C1'	7.35	107.38	101.50
35	BB	128	C	N1-C2-O2	7.35	123.31	118.90
35	BB	2273	A	C5-C6-N6	-7.35	117.82	123.70
1	AA	312	C	O4'-C1'-N1	7.34	114.08	108.20
1	AA	1145	A	C4-C5-C6	7.34	120.67	117.00
1	AA	1146	A	C2-N3-C4	-7.34	106.93	110.60
35	BB	504	A	C4-C5-C6	7.34	120.67	117.00
35	BB	520	G	P-O5'-C5'	-7.34	109.15	120.90
35	BB	592	A	N9-C4-C5	-7.34	102.86	105.80
35	BB	2036	C	N3-C4-C5	-7.34	118.96	121.90
35	BB	2604	U	N3-C4-C5	-7.34	110.19	114.60
35	BB	1484	U	N1-C2-O2	-7.34	117.66	122.80
50	BQ	27	ARG	NE-CZ-NH1	7.34	123.97	120.30
1	AA	108	G	C5-C6-O6	-7.34	124.19	128.60
35	BB	1344	U	P-O5'-C5'	7.34	132.65	120.90
35	BB	1431	A	C6-N1-C2	-7.34	114.19	118.60
35	BB	1514	G	N3-C4-N9	7.34	130.41	126.00
35	BB	2109	U	P-O3'-C3'	7.34	128.51	119.70
1	AA	38	G	N7-C8-N9	7.34	116.77	113.10
1	AA	593	U	N3-C4-O4	7.34	124.54	119.40
1	AA	881	G	C4-C5-N7	-7.34	107.86	110.80
35	BB	60	G	P-O3'-C3'	7.34	128.51	119.70
35	BB	113	U	O4'-C1'-N1	7.34	114.07	108.20
35	BB	549	G	N1-C2-N3	-7.34	119.50	123.90
35	BB	703	U	N3-C4-O4	7.34	124.54	119.40
35	BB	741	U	O4'-C4'-C3'	-7.34	96.66	104.00
35	BB	1747	U	O4'-C1'-N1	7.34	114.07	108.20
35	BB	1816	C	C6-N1-C1'	-7.34	111.99	120.80
35	BB	2330	G	C4-C5-C6	7.34	123.20	118.80
35	BB	664	G	O4'-C1'-N9	7.34	114.07	108.20
35	BB	2610	C	C2-N3-C4	7.34	123.57	119.90
35	BB	2812	G	N1-C2-N3	-7.34	119.50	123.90
1	AA	77	A	O4'-C1'-N9	7.34	114.07	108.20
1	AA	129	A	O4'-C1'-N9	7.34	114.07	108.20
1	AA	174	A	C6-C5-N7	-7.34	127.17	132.30
1	AA	521	G	C8-N9-C4	-7.34	103.47	106.40
1	AA	577	G	N7-C8-N9	-7.34	109.43	113.10
1	AA	1358	U	C5'-C4'-C3'	-7.34	104.26	116.00
35	BB	277	G	C5-C6-O6	-7.34	124.20	128.60
35	BB	924	G	N1-C6-O6	7.34	124.30	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1878	G	N1-C6-O6	7.34	124.30	119.90
35	BB	2531	A	C5-C6-N1	-7.34	114.03	117.70
35	BB	2763	G	N9-C4-C5	7.34	108.33	105.40
1	AA	510	A	C4'-C3'-C2'	-7.33	95.27	102.60
1	AA	590	U	O4'-C1'-N1	7.33	114.07	108.20
1	AA	686	U	C3'-C2'-C1'	-7.33	95.63	101.50
35	BB	952	G	N1-C6-O6	7.33	124.30	119.90
35	BB	1835	G	P-O3'-C3'	-7.33	110.90	119.70
35	BB	2177	C	N3-C4-N4	7.33	123.14	118.00
1	AA	760	G	C4-C5-C6	7.33	123.20	118.80
35	BB	1471	G	C8-N9-C1'	7.33	136.53	127.00
35	BB	1899	A	C4-C5-C6	7.33	120.67	117.00
35	BB	2503	A	O4'-C1'-N9	7.33	114.07	108.20
1	AA	66	A	C6-N1-C2	7.33	123.00	118.60
1	AA	198	G	O4'-C4'-C3'	-7.33	96.67	104.00
1	AA	356	A	C4-C5-C6	7.33	120.67	117.00
1	AA	835	U	C5'-C4'-C3'	-7.33	104.27	116.00
1	AA	1355	G	O4'-C1'-N9	7.33	114.06	108.20
21	AU	32	ARG	NE-CZ-NH1	7.33	123.97	120.30
33	B8	19	ARG	NE-CZ-NH2	-7.33	116.63	120.30
35	BB	12	U	P-O3'-C3'	7.33	128.50	119.70
35	BB	1555	G	C5-C6-O6	-7.33	124.20	128.60
35	BB	2205	A	N1-C6-N6	7.33	123.00	118.60
35	BB	2313	C	C2-N3-C4	-7.33	116.23	119.90
1	AA	544	G	N1-C2-N2	-7.33	109.60	116.20
14	AN	84	ARG	NE-CZ-NH1	-7.33	116.64	120.30
26	B1	7	ARG	NE-CZ-NH1	7.33	123.97	120.30
35	BB	1221	C	N3-C4-N4	7.33	123.13	118.00
35	BB	1696	G	N3-C2-N2	7.33	125.03	119.90
35	BB	2009	A	O4'-C1'-N9	7.33	114.06	108.20
35	BB	2114	A	N9-C4-C5	7.33	108.73	105.80
1	AA	44	A	N1-C6-N6	7.33	123.00	118.60
1	AA	370	C	N3-C4-N4	7.33	123.13	118.00
35	BB	753	A	C5-C6-N6	-7.33	117.84	123.70
35	BB	1591	A	C6-C5-N7	-7.33	127.17	132.30
35	BB	2092	U	C5-C4-O4	-7.33	121.50	125.90
1	AA	691	G	O4'-C1'-N9	7.33	114.06	108.20
1	AA	744	C	N1-C2-N3	-7.33	114.07	119.20
1	AA	901	A	P-O3'-C3'	7.33	128.49	119.70
35	BB	799	G	C6-C5-N7	-7.33	126.00	130.40
35	BB	2175	C	N1-C2-N3	-7.33	114.07	119.20
1	AA	331	G	C1'-O4'-C4'	-7.33	104.04	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	432	A	C4-C5-C6	7.33	120.66	117.00
1	AA	768	A	C6-N1-C2	-7.33	114.20	118.60
35	BB	701	G	O4'-C1'-N9	7.33	114.06	108.20
35	BB	1305	C	O4'-C1'-N1	7.33	114.06	108.20
35	BB	1682	G	N3-C2-N2	7.33	125.03	119.90
35	BB	2132	U	O4'-C4'-C3'	-7.33	96.67	104.00
40	BG	156	TYR	CG-CD2-CE2	-7.33	115.44	121.30
1	AA	9	G	C4-N9-C1'	-7.32	116.98	126.50
1	AA	51	A	O4'-C1'-C2'	7.32	114.19	107.60
1	AA	155	A	N9-C4-C5	-7.32	102.87	105.80
1	AA	818	G	O4'-C1'-N9	7.32	114.06	108.20
1	AA	982	U	P-O3'-C3'	7.32	128.49	119.70
1	AA	1164	G	N3-C4-C5	-7.32	124.94	128.60
35	BB	1000	A	C5-C6-N1	-7.32	114.04	117.70
35	BB	1743	G	C5-N7-C8	-7.32	100.64	104.30
1	AA	1158	C	N3-C4-C5	-7.32	118.97	121.90
35	BB	1522	A	N1-C2-N3	-7.32	125.64	129.30
35	BB	2046	G	C5-C6-N1	-7.32	107.84	111.50
1	AA	472	U	C6-N1-C2	-7.32	116.61	121.00
1	AA	718	A	C4-C5-C6	7.32	120.66	117.00
35	BB	2406	A	C5-C6-N6	-7.32	117.84	123.70
35	BB	2692	G	P-O3'-C3'	-7.32	110.92	119.70
35	BB	2815	C	N3-C4-N4	7.32	123.12	118.00
1	AA	1252	A	O4'-C1'-N9	7.32	114.06	108.20
34	BA	115	A	O4'-C1'-N9	7.32	114.06	108.20
35	BB	1345	C	O4'-C1'-N1	7.32	114.06	108.20
1	AA	415	A	C5-C6-N6	-7.32	117.85	123.70
1	AA	528	C	O4'-C1'-N1	7.32	114.05	108.20
1	AA	1220	G	C6-C5-N7	-7.32	126.01	130.40
34	BA	72	G	N1-C2-N3	-7.32	119.51	123.90
35	BB	67	U	N3-C2-O2	7.32	127.32	122.20
35	BB	449	A	N1-C2-N3	-7.32	125.64	129.30
35	BB	482	A	C5-C6-N1	-7.32	114.04	117.70
35	BB	1134	A	C8-N9-C4	-7.32	102.87	105.80
35	BB	1828	G	N9-C4-C5	-7.32	102.47	105.40
35	BB	2172	U	N3-C2-O2	7.32	127.32	122.20
35	BB	2662	A	C5-C6-N1	-7.32	114.04	117.70
1	AA	1220	G	N3-C4-C5	-7.32	124.94	128.60
1	AA	1269	A	C5-C6-N6	-7.32	117.85	123.70
1	AA	1271	A	C8-N9-C4	-7.32	102.87	105.80
35	BB	459	U	C4'-C3'-C2'	-7.32	95.28	102.60
35	BB	819	A	C4-C5-C6	7.32	120.66	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1189	A	N7-C8-N9	-7.32	110.14	113.80
35	BB	1373	A	O4'-C1'-N9	7.32	114.05	108.20
1	AA	270	A	N1-C6-N6	7.31	122.99	118.60
1	AA	404	G	C4-C5-C6	7.31	123.19	118.80
1	AA	475	C	C6-N1-C2	-7.31	117.37	120.30
1	AA	1438	G	N1-C6-O6	7.31	124.29	119.90
22	AV	43	G	C5-C6-O6	-7.31	124.21	128.60
35	BB	1446	C	C3'-C2'-C1'	7.31	107.35	101.50
1	AA	681	A	C4-C5-N7	7.31	114.36	110.70
35	BB	829	A	C5-C6-N6	-7.31	117.85	123.70
35	BB	1778	U	N1-C2-N3	7.31	119.29	114.90
35	BB	2278	A	O4'-C1'-N9	7.31	114.05	108.20
35	BB	2646	C	O4'-C1'-N1	7.31	114.05	108.20
35	BB	2777	G	N1-C6-O6	7.31	124.29	119.90
1	AA	408	A	C2-N3-C4	-7.31	106.94	110.60
1	AA	1272	G	N3-C2-N2	7.31	125.02	119.90
35	BB	3	U	C1'-O4'-C4'	7.31	115.75	109.90
35	BB	636	G	O4'-C1'-N9	7.31	114.05	108.20
1	AA	388	G	C6-C5-N7	-7.31	126.02	130.40
1	AA	407	U	C2-N3-C4	-7.31	122.61	127.00
35	BB	1697	G	N7-C8-N9	7.31	116.75	113.10
1	AA	46	G	N1-C2-N3	-7.31	119.52	123.90
35	BB	1071	G	N3-C4-C5	-7.31	124.95	128.60
35	BB	2207	C	C6-N1-C2	-7.31	117.38	120.30
1	AA	601	G	C3'-C2'-C1'	-7.31	95.66	101.50
35	BB	834	G	C6-C5-N7	-7.31	126.02	130.40
35	BB	2229	U	O4'-C1'-N1	7.31	114.04	108.20
1	AA	222	C	C4-C5-C6	7.30	121.05	117.40
1	AA	1296	C	O4'-C1'-N1	7.30	114.04	108.20
1	AA	1415	G	N1-C6-O6	7.30	124.28	119.90
30	B5	137	MET	CG-SD-CE	-7.30	88.51	100.20
35	BB	271	G	C4-C5-C6	-7.30	114.42	118.80
35	BB	624	C	C4-C5-C6	7.30	121.05	117.40
35	BB	1064	C	C2-N3-C4	-7.30	116.25	119.90
35	BB	1495	A	C5-C6-N1	-7.30	114.05	117.70
35	BB	2367	G	P-O5'-C5'	7.30	132.59	120.90
1	AA	95	C	N3-C4-C5	-7.30	118.98	121.90
1	AA	1091	U	N3-C4-O4	7.30	124.51	119.40
1	AA	1141	C	C6-N1-C2	-7.30	117.38	120.30
35	BB	600	G	C4-C5-N7	7.30	113.72	110.80
35	BB	1907	G	N3-C2-N2	7.30	125.01	119.90
35	BB	2148	G	N9-C4-C5	7.30	108.32	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	143	A	C4-C5-C6	7.30	120.65	117.00
1	AA	506	G	N7-C8-N9	-7.30	109.45	113.10
1	AA	655	A	O4'-C1'-N9	7.30	114.04	108.20
1	AA	814	A	N1-C2-N3	7.30	132.95	129.30
1	AA	964	A	C5-C6-N1	-7.30	114.05	117.70
1	AA	1208	C	N3-C4-N4	7.30	123.11	118.00
35	BB	1037	G	C5-C6-N1	-7.30	107.85	111.50
35	BB	1218	G	C5-C6-O6	-7.30	124.22	128.60
35	BB	1333	G	C4-C5-N7	-7.30	107.88	110.80
35	BB	1391	U	N3-C4-O4	7.30	124.51	119.40
35	BB	1707	G	O4'-C1'-N9	7.30	114.04	108.20
1	AA	244	U	N3-C2-O2	7.30	127.31	122.20
22	AV	76	A	C8-N9-C4	-7.30	102.88	105.80
35	BB	449	A	C5-C6-N1	-7.30	114.05	117.70
35	BB	697	G	C5-C6-N1	7.30	115.15	111.50
35	BB	1000	A	O4'-C4'-C3'	-7.30	96.70	104.00
35	BB	1459	G	N1-C6-O6	7.30	124.28	119.90
35	BB	1471	G	C4-C5-C6	7.30	123.18	118.80
35	BB	1576	U	C5-C6-N1	7.30	126.35	122.70
35	BB	2299	U	N3-C4-C5	-7.30	110.22	114.60
35	BB	2351	G	O4'-C1'-N9	7.30	114.04	108.20
1	AA	46	G	C2-N3-C4	7.30	115.55	111.90
1	AA	986	U	C5-C4-O4	-7.30	121.52	125.90
35	BB	24	G	N1-C6-O6	7.30	124.28	119.90
35	BB	736	C	N3-C4-N4	7.30	123.11	118.00
1	AA	319	G	C5-C6-N1	-7.30	107.85	111.50
1	AA	352	C	C4-C5-C6	-7.30	113.75	117.40
1	AA	1309	G	C1'-O4'-C4'	-7.30	104.06	109.90
35	BB	512	G	C2-N3-C4	-7.30	108.25	111.90
35	BB	546	U	P-O3'-C3'	7.30	128.46	119.70
35	BB	1122	G	C5-C6-N1	-7.30	107.85	111.50
35	BB	2066	C	N3-C4-N4	7.30	123.11	118.00
1	AA	126	G	N1-C2-N3	-7.29	119.52	123.90
1	AA	775	G	N1-C6-O6	7.29	124.28	119.90
35	BB	2145	C	N3-C4-N4	7.29	123.11	118.00
1	AA	537	G	C6-C5-N7	-7.29	126.02	130.40
1	AA	1294	G	N3-C2-N2	7.29	125.00	119.90
1	AA	1367	C	C1'-O4'-C4'	-7.29	104.07	109.90
1	AA	1531	A	C4-C5-C6	7.29	120.65	117.00
22	AV	3	G	C2-N3-C4	7.29	115.55	111.90
35	BB	725	G	N1-C6-O6	7.29	124.28	119.90
35	BB	777	G	C5-N7-C8	7.29	107.95	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1689	A	N9-C4-C5	-7.29	102.88	105.80
35	BB	1719	G	C4-C5-N7	7.29	113.72	110.80
35	BB	2544	G	N9-C4-C5	-7.29	102.48	105.40
1	AA	472	U	C5-C4-O4	7.29	130.28	125.90
1	AA	856	C	N3-C4-C5	-7.29	118.98	121.90
34	BA	29	A	C5-C6-N1	-7.29	114.05	117.70
35	BB	182	A	P-O3'-C3'	-7.29	110.95	119.70
35	BB	2763	G	N3-C2-N2	7.29	125.00	119.90
1	AA	6	G	C8-N9-C4	-7.29	103.48	106.40
1	AA	71	A	C5-C6-N1	-7.29	114.06	117.70
1	AA	945	G	C8-N9-C4	-7.29	103.48	106.40
1	AA	1515	G	O4'-C1'-N9	7.29	114.03	108.20
35	BB	2481	G	N1-C2-N3	-7.29	119.53	123.90
35	BB	2494	G	N1-C6-O6	7.29	124.27	119.90
1	AA	297	G	C4-C5-N7	7.29	113.72	110.80
1	AA	716	A	N9-C4-C5	7.29	108.72	105.80
1	AA	1016	A	O4'-C1'-N9	7.29	114.03	108.20
1	AA	1043	G	P-O3'-C3'	7.29	128.45	119.70
1	AA	1162	C	C4'-C3'-C2'	-7.29	95.31	102.60
35	BB	459	U	O4'-C1'-N1	7.29	114.03	108.20
35	BB	707	G	N7-C8-N9	-7.29	109.45	113.10
35	BB	1339	G	C6-N1-C2	-7.29	120.73	125.10
35	BB	1341	G	C5-C6-N1	-7.29	107.86	111.50
35	BB	1724	G	C2-N3-C4	-7.29	108.26	111.90
1	AA	1121	U	O4'-C1'-N1	7.29	114.03	108.20
1	AA	1350	A	N3-C4-N9	7.29	133.23	127.40
35	BB	469	G	C5'-C4'-O4'	7.29	117.84	109.10
1	AA	380	G	C5-C6-O6	-7.29	124.23	128.60
35	BB	197	A	C4-C5-C6	7.29	120.64	117.00
35	BB	382	A	N1-C6-N6	7.29	122.97	118.60
35	BB	2749	A	C6-C5-N7	-7.29	127.20	132.30
53	BT	10	VAL	CA-CB-CG2	7.29	121.83	110.90
1	AA	64	G	C5-C6-O6	-7.28	124.23	128.60
1	AA	487	A	C5-N7-C8	7.28	107.54	103.90
1	AA	1164	G	C6-N1-C2	7.28	129.47	125.10
8	AH	76	ARG	NE-CZ-NH1	7.28	123.94	120.30
35	BB	1650	A	N1-C6-N6	7.28	122.97	118.60
1	AA	9	G	N3-C4-N9	7.28	130.37	126.00
35	BB	809	G	O4'-C1'-N9	7.28	114.03	108.20
35	BB	2154	A	C4-C5-N7	-7.28	107.06	110.70
35	BB	2412	A	C5-C6-N1	-7.28	114.06	117.70
1	AA	43	C	O4'-C1'-N1	7.28	114.02	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	254	G	N3-C2-N2	7.28	125.00	119.90
1	AA	674	G	O4'-C1'-N9	7.28	114.02	108.20
1	AA	964	A	C4-C5-C6	7.28	120.64	117.00
1	AA	1029	U	C6-N1-C2	-7.28	116.63	121.00
1	AA	1204	A	C5-C6-N6	-7.28	117.88	123.70
35	BB	845	A	P-O3'-C3'	-7.28	110.96	119.70
35	BB	1828	G	C5'-C4'-O4'	7.28	117.84	109.10
35	BB	2177	C	C5-C6-N1	7.28	124.64	121.00
1	AA	104	G	N1-C6-O6	7.28	124.27	119.90
1	AA	378	G	O4'-C1'-N9	7.28	114.02	108.20
1	AA	760	G	N7-C8-N9	-7.28	109.46	113.10
1	AA	1402	C	N3-C4-C5	-7.28	118.99	121.90
35	BB	1797	G	N9-C4-C5	7.28	108.31	105.40
1	AA	1273	C	N3-C4-C5	-7.28	118.99	121.90
35	BB	1627	G	O4'-C1'-N9	7.28	114.02	108.20
35	BB	1932	A	C5-C6-N1	-7.28	114.06	117.70
35	BB	2158	A	C8-N9-C4	-7.28	102.89	105.80
1	AA	705	G	C6-N1-C2	-7.28	120.73	125.10
1	AA	812	G	C2-N3-C4	7.28	115.54	111.90
10	AJ	86	ALA	O-C-N	-7.28	111.06	122.70
13	AM	22	TYR	CB-CG-CD2	7.28	125.36	121.00
35	BB	104	A	N1-C2-N3	7.28	132.94	129.30
35	BB	181	A	C6-C5-N7	-7.28	127.21	132.30
35	BB	689	A	N7-C8-N9	-7.28	110.16	113.80
35	BB	1277	G	P-O3'-C3'	-7.28	110.97	119.70
35	BB	1600	C	C5-C4-N4	-7.28	115.11	120.20
35	BB	1742	U	N1-C2-N3	-7.28	110.53	114.90
35	BB	1790	C	C6-N1-C2	-7.28	117.39	120.30
35	BB	1975	G	C5-N7-C8	-7.28	100.66	104.30
35	BB	1996	C	N3-C4-C5	-7.28	118.99	121.90
35	BB	2062	A	C6-N1-C2	-7.28	114.23	118.60
1	AA	232	G	C6-N1-C2	7.27	129.47	125.10
1	AA	536	C	C2-N3-C4	7.27	123.54	119.90
1	AA	906	A	C6-C5-N7	-7.27	127.21	132.30
16	AP	65	ALA	N-CA-CB	7.27	120.28	110.10
35	BB	68	G	O4'-C1'-C2'	-7.27	98.53	105.80
35	BB	717	C	N1-C2-O2	7.27	123.26	118.90
35	BB	756	A	C8-N9-C4	-7.27	102.89	105.80
35	BB	983	A	N9-C4-C5	7.27	108.71	105.80
35	BB	1824	G	N1-C2-N2	7.27	122.75	116.20
35	BB	2004	G	C8-N9-C4	-7.27	103.49	106.40
1	AA	491	G	N1-C2-N3	-7.27	119.54	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1319	A	C5-C6-N1	-7.27	114.06	117.70
1	AA	1380	U	C3'-C2'-C1'	7.27	107.32	101.50
1	AA	1530	G	N1-C6-O6	7.27	124.26	119.90
35	BB	370	G	N3-C2-N2	7.27	124.99	119.90
35	BB	1164	C	N3-C4-C5	-7.27	118.99	121.90
35	BB	1439	A	C5-C6-N1	-7.27	114.06	117.70
35	BB	1465	G	C8-N9-C4	-7.27	103.49	106.40
35	BB	1948	G	C8-N9-C4	-7.27	103.49	106.40
35	BB	2159	G	N3-C2-N2	7.27	124.99	119.90
36	BC	101	ARG	NE-CZ-NH1	7.27	123.94	120.30
1	AA	789	U	C2-N3-C4	-7.27	122.64	127.00
1	AA	1435	G	C5-C6-O6	-7.27	124.24	128.60
34	BA	96	G	C2-N3-C4	-7.27	108.27	111.90
35	BB	798	G	N9-C4-C5	7.27	108.31	105.40
35	BB	1576	U	C5-C4-O4	-7.27	121.54	125.90
1	AA	712	A	C5-N7-C8	7.27	107.53	103.90
1	AA	935	A	N7-C8-N9	7.27	117.43	113.80
1	AA	1223	C	C5'-C4'-O4'	7.27	117.82	109.10
35	BB	36	G	C5-C6-O6	-7.27	124.24	128.60
35	BB	422	A	N7-C8-N9	-7.27	110.17	113.80
35	BB	483	A	C4-C5-N7	-7.27	107.06	110.70
35	BB	1638	C	N3-C2-O2	7.27	126.99	121.90
35	BB	1918	A	N1-C6-N6	7.27	122.96	118.60
35	BB	2311	A	O4'-C1'-N9	7.27	114.02	108.20
35	BB	2733	A	C4-C5-C6	7.27	120.64	117.00
1	AA	50	A	C2-N3-C4	7.27	114.23	110.60
1	AA	577	G	N3-C2-N2	7.27	124.99	119.90
1	AA	847	G	C8-N9-C1'	7.27	136.45	127.00
1	AA	1045	C	C5-C6-N1	7.27	124.63	121.00
1	AA	1271	A	C4-C5-C6	7.27	120.63	117.00
1	AA	1438	G	N1-C2-N3	-7.27	119.54	123.90
7	AG	110	ARG	NE-CZ-NH1	7.27	123.93	120.30
35	BB	58	G	N3-C4-C5	-7.27	124.97	128.60
35	BB	963	U	O4'-C4'-C3'	-7.27	96.73	104.00
35	BB	1236	G	C2-N3-C4	7.27	115.53	111.90
35	BB	1317	G	C6-C5-N7	-7.27	126.04	130.40
35	BB	1473	G	C8-N9-C4	-7.27	103.49	106.40
35	BB	2780	G	C5-C6-O6	-7.27	124.24	128.60
35	BB	2893	A	C4-C5-N7	-7.27	107.07	110.70
1	AA	224	U	N3-C4-O4	7.27	124.49	119.40
1	AA	898	G	C5-C6-O6	-7.27	124.24	128.60
35	BB	412	A	C5-N7-C8	7.27	107.53	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	748	G	O4'-C1'-N9	7.27	114.01	108.20
35	BB	948	C	N3-C4-C5	-7.27	118.99	121.90
35	BB	1506	U	O4'-C1'-N1	7.27	114.01	108.20
35	BB	1672	A	N1-C2-N3	7.27	132.93	129.30
1	AA	271	C	C5-C4-N4	-7.26	115.11	120.20
1	AA	706	A	C5-C6-N1	-7.26	114.07	117.70
1	AA	714	G	N3-C2-N2	7.26	124.98	119.90
35	BB	463	G	O4'-C1'-N9	7.26	114.01	108.20
35	BB	718	A	C5-N7-C8	7.26	107.53	103.90
35	BB	1589	U	N3-C4-C5	7.26	118.96	114.60
35	BB	2192	U	C5-C4-O4	-7.26	121.54	125.90
35	BB	2311	A	C5-N7-C8	7.26	107.53	103.90
35	BB	2341	G	O4'-C1'-N9	7.26	114.01	108.20
35	BB	2713	U	P-O5'-C5'	-7.26	109.28	120.90
1	AA	337	G	C6-C5-N7	-7.26	126.04	130.40
35	BB	2839	G	C2-N3-C4	7.26	115.53	111.90
35	BB	585	G	C6-C5-N7	-7.26	126.04	130.40
35	BB	2346	A	N1-C6-N6	7.26	122.96	118.60
35	BB	538	A	C2-N3-C4	-7.26	106.97	110.60
35	BB	562	U	C5-C4-O4	-7.26	121.54	125.90
35	BB	577	G	N9-C4-C5	-7.26	102.50	105.40
35	BB	941	A	O4'-C1'-N9	7.26	114.01	108.20
35	BB	1540	G	C2-N3-C4	7.26	115.53	111.90
35	BB	2057	G	C4-C5-N7	7.26	113.70	110.80
35	BB	370	G	C5-C6-O6	-7.26	124.25	128.60
35	BB	601	C	N3-C4-C5	-7.26	119.00	121.90
35	BB	900	A	C4-C5-N7	-7.26	107.07	110.70
1	AA	252	U	O4'-C1'-N1	7.26	114.00	108.20
1	AA	313	A	O4'-C1'-N9	7.26	114.00	108.20
1	AA	321	A	C8-N9-C4	-7.26	102.90	105.80
1	AA	507	C	C6-N1-C2	-7.26	117.40	120.30
35	BB	916	G	C5-C6-O6	-7.26	124.25	128.60
35	BB	1005	C	C6-N1-C2	-7.26	117.40	120.30
35	BB	2108	A	C6-C5-N7	-7.26	127.22	132.30
35	BB	2218	G	O4'-C1'-N9	7.26	114.00	108.20
1	AA	1214	C	C2-N1-C1'	7.25	126.78	118.80
1	AA	1339	A	C6-N1-C2	7.25	122.95	118.60
35	BB	11	C	O4'-C1'-N1	7.25	114.00	108.20
35	BB	142	A	O4'-C1'-N9	7.25	114.00	108.20
35	BB	526	A	N9-C4-C5	-7.25	102.90	105.80
35	BB	1617	C	O4'-C1'-N1	7.25	114.00	108.20
35	BB	2883	A	C4-C5-N7	-7.25	107.07	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	912	C	N3-C4-N4	7.25	123.08	118.00
1	AA	1241	G	C4'-C3'-C2'	-7.25	95.35	102.60
1	AA	1260	G	N7-C8-N9	7.25	116.73	113.10
1	AA	1386	G	C4-C5-C6	7.25	123.15	118.80
35	BB	579	G	N3-C2-N2	7.25	124.98	119.90
35	BB	838	C	C5-C4-N4	-7.25	115.12	120.20
35	BB	965	C	C5'-C4'-C3'	-7.25	104.39	116.00
35	BB	1549	A	C6-N1-C2	7.25	122.95	118.60
54	BU	84	PHE	CB-CG-CD1	7.25	125.88	120.80
1	AA	7	A	N1-C6-N6	7.25	122.95	118.60
1	AA	110	C	C5-C6-N1	7.25	124.63	121.00
1	AA	236	A	C5-N7-C8	7.25	107.53	103.90
35	BB	579	G	N9-C4-C5	7.25	108.30	105.40
35	BB	1363	C	N3-C4-N4	7.25	123.08	118.00
35	BB	1500	G	N1-C6-O6	7.25	124.25	119.90
35	BB	1987	A	C5-C6-N1	-7.25	114.07	117.70
35	BB	2057	G	O4'-C1'-N9	7.25	114.00	108.20
35	BB	2214	C	C5-C4-N4	-7.25	115.12	120.20
35	BB	2330	G	N3-C4-C5	-7.25	124.97	128.60
35	BB	2400	G	C5-C6-N1	-7.25	107.88	111.50
1	AA	192	A	N1-C2-N3	7.25	132.93	129.30
1	AA	623	C	N3-C4-N4	7.25	123.08	118.00
35	BB	1100	C	N3-C2-O2	7.25	126.97	121.90
35	BB	1197	G	C5-N7-C8	-7.25	100.67	104.30
35	BB	1596	A	C6-C5-N7	-7.25	127.23	132.30
35	BB	1800	C	C5-C6-N1	-7.25	117.38	121.00
35	BB	1981	A	C4-C5-C6	7.25	120.62	117.00
35	BB	2308	G	C5-C6-O6	-7.25	124.25	128.60
1	AA	504	C	N3-C4-N4	7.25	123.07	118.00
1	AA	919	A	N1-C6-N6	7.25	122.95	118.60
1	AA	947	G	N7-C8-N9	7.25	116.72	113.10
1	AA	1042	A	C5-N7-C8	7.25	107.52	103.90
1	AA	1312	G	C5-C6-O6	-7.25	124.25	128.60
1	AA	1529	G	N1-C6-O6	7.25	124.25	119.90
35	BB	41	C	C4'-C3'-C2'	-7.25	95.35	102.60
35	BB	361	G	C5-C6-O6	-7.25	124.25	128.60
35	BB	418	C	O4'-C1'-N1	7.25	114.00	108.20
35	BB	650	C	N3-C4-N4	7.25	123.07	118.00
35	BB	1030	C	P-O3'-C3'	-7.25	111.00	119.70
35	BB	1475	G	N3-C4-N9	7.25	130.35	126.00
35	BB	1591	A	O4'-C1'-N9	7.25	114.00	108.20
35	BB	1872	A	C4-C5-C6	7.25	120.62	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	969	A	C5-C6-N6	-7.25	117.90	123.70
35	BB	2192	U	C5'-C4'-C3'	-7.25	104.41	116.00
1	AA	326	G	N1-C2-N3	-7.24	119.55	123.90
4	AD	13	ARG	NE-CZ-NH2	-7.24	116.68	120.30
35	BB	1420	A	P-O3'-C3'	7.24	128.39	119.70
35	BB	1812	U	O4'-C1'-N1	7.24	114.00	108.20
35	BB	2069	G	N3-C4-N9	7.24	130.35	126.00
35	BB	2294	G	N3-C4-N9	-7.24	121.65	126.00
35	BB	2418	A	C8-N9-C4	-7.24	102.90	105.80
35	BB	1861	G	N1-C6-O6	7.24	124.25	119.90
1	AA	747	A	P-O3'-C3'	7.24	128.39	119.70
1	AA	1118	U	C5-C4-O4	7.24	130.24	125.90
1	AA	1157	A	C5-C6-N1	-7.24	114.08	117.70
1	AA	1446	A	C4-C5-C6	7.24	120.62	117.00
34	BA	86	G	N3-C4-C5	7.24	132.22	128.60
34	BA	101	A	C6-C5-N7	-7.24	127.23	132.30
35	BB	1169	A	C4-C5-N7	-7.24	107.08	110.70
35	BB	2567	G	C6-C5-N7	-7.24	126.06	130.40
1	AA	8	A	C5-C6-N6	-7.24	117.91	123.70
1	AA	1070	U	N3-C2-O2	7.24	127.27	122.20
34	BA	76	G	N3-C2-N2	7.24	124.97	119.90
35	BB	83	A	P-O5'-C5'	7.24	132.48	120.90
35	BB	381	G	C2-N3-C4	-7.24	108.28	111.90
35	BB	470	A	N9-C4-C5	-7.24	102.90	105.80
35	BB	1283	G	C5-C6-O6	-7.24	124.26	128.60
35	BB	1516	G	N7-C8-N9	7.24	116.72	113.10
1	AA	8	A	C6-N1-C2	-7.24	114.26	118.60
1	AA	51	A	P-O3'-C3'	7.24	128.38	119.70
1	AA	602	A	N1-C2-N3	7.24	132.92	129.30
1	AA	1321	U	P-O5'-C5'	7.24	132.48	120.90
1	AA	1515	G	C8-N9-C4	-7.24	103.51	106.40
35	BB	185	G	C6-C5-N7	-7.24	126.06	130.40
35	BB	303	G	C5-C6-O6	-7.24	124.26	128.60
35	BB	745	G	C4'-C3'-C2'	7.24	109.83	102.60
35	BB	1224	U	C2-N3-C4	-7.24	122.66	127.00
35	BB	1456	G	N3-C2-N2	7.24	124.97	119.90
35	BB	1584	U	C1'-O4'-C4'	7.24	115.69	109.90
35	BB	1900	A	C2-N3-C4	7.24	114.22	110.60
35	BB	2000	C	N3-C4-N4	7.24	123.06	118.00
35	BB	2213	U	P-O3'-C3'	7.24	128.38	119.70
1	AA	168	G	O4'-C1'-N9	7.23	113.99	108.20
35	BB	580	U	C6-N1-C2	-7.23	116.66	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2489	U	C5-C4-O4	-7.23	121.56	125.90
1	AA	364	A	C8-N9-C4	-7.23	102.91	105.80
18	AR	42	ARG	NE-CZ-NH1	7.23	123.92	120.30
35	BB	480	A	C8-N9-C4	-7.23	102.91	105.80
35	BB	650	C	C2-N3-C4	-7.23	116.28	119.90
35	BB	1067	A	C4-C5-N7	-7.23	107.08	110.70
35	BB	1512	C	N3-C4-N4	7.23	123.06	118.00
35	BB	2251	G	N3-C4-N9	-7.23	121.66	126.00
35	BB	2536	G	C2-N3-C4	7.23	115.52	111.90
35	BB	2686	G	O4'-C1'-N9	7.23	113.99	108.20
43	BJ	42	ALA	N-CA-CB	7.23	120.22	110.10
1	AA	201	G	N3-C2-N2	7.23	124.96	119.90
1	AA	928	G	C6-N1-C2	-7.23	120.76	125.10
1	AA	1501	C	C5-C4-N4	-7.23	115.14	120.20
22	AV	75	C	N3-C4-C5	-7.23	119.01	121.90
35	BB	1219	U	O4'-C1'-N1	7.23	113.98	108.20
35	BB	1843	C	C4-C5-C6	7.23	121.02	117.40
35	BB	1852	U	N3-C4-O4	7.23	124.46	119.40
35	BB	1976	U	N3-C4-C5	-7.23	110.26	114.60
1	AA	860	A	C6-N1-C2	-7.23	114.26	118.60
35	BB	91	A	C4-C5-C6	7.23	120.61	117.00
35	BB	1650	A	C4-C5-C6	7.23	120.61	117.00
35	BB	2759	G	O4'-C1'-N9	7.23	113.98	108.20
1	AA	482	A	O4'-C1'-N9	7.23	113.98	108.20
27	B2	52	PHE	CB-CG-CD1	7.23	125.86	120.80
35	BB	616	A	C2-N3-C4	-7.23	106.99	110.60
35	BB	1284	A	C4-C5-C6	7.23	120.61	117.00
35	BB	1926	U	O4'-C1'-N1	7.23	113.98	108.20
35	BB	2341	G	N7-C8-N9	7.23	116.71	113.10
35	BB	2464	G	N1-C6-O6	7.23	124.24	119.90
35	BB	2877	G	C2-N3-C4	7.23	115.51	111.90
1	AA	498	A	C5-C6-N6	-7.23	117.92	123.70
1	AA	765	G	P-O3'-C3'	-7.23	111.03	119.70
1	AA	1207	G	C8-N9-C4	7.23	109.29	106.40
35	BB	1288	G	N9-C4-C5	-7.23	102.51	105.40
1	AA	117	G	C3'-C2'-C1'	-7.22	95.72	101.50
34	BA	114	C	C5-C4-N4	-7.22	115.14	120.20
35	BB	191	A	N1-C6-N6	7.22	122.94	118.60
35	BB	1878	G	C5-C6-O6	-7.22	124.27	128.60
38	BE	140	ASP	CB-CG-OD2	-7.22	111.80	118.30
1	AA	286	C	N3-C4-C5	-7.22	119.01	121.90
35	BB	514	A	N1-C6-N6	7.22	122.93	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	818	G	N1-C2-N2	-7.22	109.70	116.20
35	BB	909	A	O4'-C1'-N9	7.22	113.98	108.20
35	BB	1331	G	N9-C4-C5	-7.22	102.51	105.40
35	BB	1702	G	N1-C6-O6	7.22	124.23	119.90
35	BB	2015	A	C8-N9-C4	-7.22	102.91	105.80
35	BB	2211	A	C6-C5-N7	-7.22	127.24	132.30
35	BB	2651	C	O4'-C1'-N1	7.22	113.98	108.20
1	AA	246	A	C5-C6-N1	-7.22	114.09	117.70
1	AA	760	G	N3-C2-N2	7.22	124.95	119.90
1	AA	1101	A	C4-C5-C6	7.22	120.61	117.00
35	BB	735	A	N1-C2-N3	7.22	132.91	129.30
35	BB	2583	G	C5-C6-O6	-7.22	124.27	128.60
1	AA	533	A	C3'-C2'-C1'	-7.22	95.72	101.50
1	AA	676	A	N3-C4-C5	-7.22	121.75	126.80
1	AA	938	A	C4'-C3'-C2'	-7.22	95.38	102.60
1	AA	1180	A	P-O3'-C3'	7.22	128.36	119.70
2	AB	68	PHE	CB-CG-CD1	7.22	125.85	120.80
35	BB	34	U	O4'-C1'-N1	7.22	113.97	108.20
35	BB	662	G	O4'-C1'-N9	7.22	113.97	108.20
35	BB	850	U	C6-N1-C2	-7.22	116.67	121.00
35	BB	1021	A	P-O3'-C3'	7.22	128.36	119.70
35	BB	1455	G	C8-N9-C4	-7.22	103.51	106.40
35	BB	1552	A	C5-C6-N6	-7.22	117.92	123.70
35	BB	1857	G	N9-C4-C5	-7.22	102.51	105.40
1	AA	181	A	C6-C5-N7	-7.22	127.25	132.30
1	AA	622	A	C4-C5-C6	7.22	120.61	117.00
1	AA	835	U	P-O3'-C3'	-7.22	111.04	119.70
35	BB	1923	U	N3-C4-O4	7.22	124.45	119.40
35	BB	1958	C	N3-C4-C5	-7.22	119.01	121.90
35	BB	54	G	C2-N3-C4	7.22	115.51	111.90
35	BB	568	U	P-O5'-C5'	7.22	132.45	120.90
35	BB	1968	G	N3-C4-N9	7.22	130.33	126.00
35	BB	2443	C	N1-C2-O2	7.22	123.23	118.90
35	BB	2891	U	N1-C2-O2	-7.22	117.75	122.80
1	AA	306	A	N9-C4-C5	7.21	108.69	105.80
1	AA	992	U	C6-N1-C2	-7.21	116.67	121.00
35	BB	81	G	N3-C4-C5	7.21	132.21	128.60
35	BB	1044	C	N1-C2-O2	-7.21	114.57	118.90
35	BB	1248	G	C5'-C4'-O4'	7.21	117.76	109.10
1	AA	446	G	C6-N1-C2	7.21	129.43	125.10
1	AA	750	C	O4'-C4'-C3'	-7.21	96.79	104.00
35	BB	351	C	C6-N1-C2	-7.21	117.42	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	563	A	O4'-C1'-N9	7.21	113.97	108.20
35	BB	1064	C	C5-C4-N4	-7.21	115.15	120.20
35	BB	2035	G	N1-C2-N3	-7.21	119.57	123.90
1	AA	280	C	C1'-O4'-C4'	7.21	115.67	109.90
1	AA	475	C	O4'-C1'-N1	7.21	113.97	108.20
1	AA	1201	A	C4-C5-N7	-7.21	107.09	110.70
1	AA	1427	C	O4'-C1'-N1	7.21	113.97	108.20
35	BB	340	A	N9-C4-C5	-7.21	102.92	105.80
35	BB	407	G	P-O3'-C3'	-7.21	111.05	119.70
35	BB	1029	A	C4-C5-C6	7.21	120.61	117.00
35	BB	1201	U	O4'-C1'-N1	7.21	113.97	108.20
35	BB	1309	G	N9-C4-C5	7.21	108.28	105.40
35	BB	1381	G	O4'-C1'-N9	7.21	113.97	108.20
35	BB	1710	G	N1-C6-O6	7.21	124.23	119.90
35	BB	2714	G	N3-C4-C5	-7.21	125.00	128.60
1	AA	998	C	O4'-C1'-N1	7.21	113.97	108.20
1	AA	1125	U	C5'-C4'-O4'	7.21	117.75	109.10
35	BB	53	A	O4'-C1'-N9	7.21	113.97	108.20
35	BB	527	C	O4'-C1'-N1	7.21	113.97	108.20
35	BB	2046	G	O4'-C1'-N9	7.21	113.97	108.20
1	AA	521	G	O4'-C1'-N9	7.21	113.97	108.20
1	AA	771	G	C5-C6-N1	7.21	115.10	111.50
28	B3	48	TYR	CG-CD1-CE1	-7.21	115.53	121.30
35	BB	7	G	O4'-C1'-N9	7.21	113.97	108.20
35	BB	2633	G	O4'-C1'-N9	7.21	113.97	108.20
1	AA	449	G	N7-C8-N9	7.21	116.70	113.10
1	AA	1140	C	C6-N1-C2	-7.21	117.42	120.30
16	AP	56	ARG	NE-CZ-NH2	-7.21	116.70	120.30
35	BB	67	U	C5-C4-O4	-7.21	121.58	125.90
35	BB	104	A	N1-C6-N6	7.21	122.92	118.60
35	BB	706	A	O4'-C1'-N9	7.21	113.97	108.20
35	BB	1726	C	O4'-C1'-N1	7.21	113.97	108.20
35	BB	1913	A	C5-C6-N1	-7.21	114.10	117.70
35	BB	2225	A	N9-C4-C5	7.21	108.68	105.80
35	BB	2892	G	O4'-C1'-N9	7.21	113.97	108.20
35	BB	345	A	N3-C4-C5	-7.21	121.76	126.80
35	BB	1656	C	C4-C5-C6	-7.21	113.80	117.40
30	B5	43	ASP	CB-CG-OD2	-7.20	111.82	118.30
34	BA	27	C	C5-C6-N1	7.20	124.60	121.00
34	BA	29	A	C4-C5-C6	7.20	120.60	117.00
35	BB	989	G	N3-C4-N9	-7.20	121.68	126.00
35	BB	2087	G	C5-C6-O6	-7.20	124.28	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2208	C	P-O3'-C3'	-7.20	111.06	119.70
1	AA	1222	G	N1-C6-O6	7.20	124.22	119.90
35	BB	2254	C	N3-C4-C5	-7.20	119.02	121.90
35	BB	2330	G	C5-C6-N1	-7.20	107.90	111.50
1	AA	526	C	C6-N1-C2	-7.20	117.42	120.30
1	AA	1164	G	N3-C4-N9	7.20	130.32	126.00
13	AM	86	ARG	NE-CZ-NH1	7.20	123.90	120.30
35	BB	327	G	C5-C6-N1	-7.20	107.90	111.50
35	BB	643	A	O4'-C1'-N9	7.20	113.96	108.20
35	BB	1266	G	C4-C5-C6	7.20	123.12	118.80
35	BB	1661	G	N1-C2-N3	-7.20	119.58	123.90
1	AA	567	G	C6-C5-N7	-7.20	126.08	130.40
35	BB	211	C	C6-N1-C2	-7.20	117.42	120.30
35	BB	522	A	C4-C5-N7	-7.20	107.10	110.70
35	BB	914	G	C6-C5-N7	-7.20	126.08	130.40
35	BB	1983	G	C4'-C3'-C2'	-7.20	95.40	102.60
35	BB	2448	A	O4'-C1'-N9	7.20	113.96	108.20
1	AA	432	A	N1-C2-N3	7.20	132.90	129.30
35	BB	37	C	C6-N1-C2	-7.20	117.42	120.30
35	BB	163	C	C2-N1-C1'	7.20	126.72	118.80
35	BB	759	G	C5-C6-N1	-7.20	107.90	111.50
1	AA	1198	G	N3-C4-N9	7.20	130.32	126.00
19	AS	33	TRP	CE2-CD2-CG	-7.20	101.54	107.30
35	BB	48	G	N3-C2-N2	7.20	124.94	119.90
35	BB	539	G	C4-C5-N7	7.20	113.68	110.80
35	BB	1565	C	C5-C6-N1	7.20	124.60	121.00
35	BB	2248	C	N3-C4-C5	-7.20	119.02	121.90
35	BB	2306	C	C6-N1-C2	-7.20	117.42	120.30
35	BB	2755	C	N3-C4-C5	7.20	124.78	121.90
1	AA	357	G	N7-C8-N9	-7.19	109.50	113.10
35	BB	699	A	C1'-O4'-C4'	7.19	115.66	109.90
35	BB	756	A	N9-C4-C5	7.19	108.68	105.80
35	BB	2435	A	C6-C5-N7	-7.19	127.26	132.30
35	BB	2484	G	C4'-C3'-C2'	-7.19	95.41	102.60
1	AA	69	G	C4-C5-N7	7.19	113.68	110.80
1	AA	630	A	P-O3'-C3'	7.19	128.33	119.70
1	AA	874	G	C6-C5-N7	-7.19	126.08	130.40
1	AA	934	C	O4'-C1'-N1	7.19	113.95	108.20
35	BB	590	A	C5-C6-N6	-7.19	117.95	123.70
35	BB	1119	U	C5-C4-O4	7.19	130.22	125.90
35	BB	1580	A	C4-C5-C6	7.19	120.60	117.00
35	BB	1615	C	C4-C5-C6	-7.19	113.80	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1799	G	C5-N7-C8	-7.19	100.70	104.30
35	BB	2049	G	C2-N3-C4	7.19	115.50	111.90
41	BH	17	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	AA	1375	A	C5-N7-C8	7.19	107.50	103.90
6	AF	99	ALA	N-CA-CB	7.19	120.17	110.10
26	B1	29	ARG	NE-CZ-NH1	-7.19	116.70	120.30
34	BA	101	A	C5-N7-C8	-7.19	100.31	103.90
35	BB	651	G	C5-C6-O6	-7.19	124.28	128.60
35	BB	1017	G	C2-N3-C4	7.19	115.50	111.90
35	BB	1940	U	C4-C5-C6	-7.19	115.39	119.70
35	BB	2111	U	C5-C4-O4	-7.19	121.58	125.90
35	BB	2135	A	P-O3'-C3'	7.19	128.33	119.70
35	BB	2143	C	N1-C2-O2	-7.19	114.59	118.90
35	BB	2575	C	N3-C4-C5	-7.19	119.02	121.90
35	BB	2621	G	C2-N3-C4	-7.19	108.31	111.90
35	BB	2842	G	C2-N3-C4	7.19	115.50	111.90
1	AA	686	U	P-O3'-C3'	7.19	128.33	119.70
1	AA	1324	A	C2-N3-C4	7.19	114.19	110.60
34	BA	86	G	C5-C6-O6	-7.19	124.29	128.60
35	BB	298	G	N3-C4-C5	-7.19	125.01	128.60
35	BB	604	G	C6-N1-C2	7.19	129.41	125.10
35	BB	820	A	C4-C5-C6	7.19	120.59	117.00
35	BB	971	G	O5'-P-OP1	-7.19	99.23	105.70
1	AA	698	G	C6-C5-N7	-7.19	126.09	130.40
1	AA	738	C	N3-C4-C5	-7.19	119.03	121.90
1	AA	769	G	C5-C6-O6	-7.19	124.29	128.60
35	BB	688	U	N1-C2-N3	-7.19	110.59	114.90
35	BB	984	A	C5-C6-N1	-7.19	114.11	117.70
35	BB	1912	A	C6-C5-N7	-7.19	127.27	132.30
35	BB	1954	G	C5-C6-O6	-7.19	124.29	128.60
35	BB	1050	A	C8-N9-C4	-7.19	102.93	105.80
35	BB	2300	C	N3-C2-O2	7.19	126.93	121.90
1	AA	418	C	C6-N1-C1'	-7.18	112.18	120.80
1	AA	687	A	N1-C6-N6	7.18	122.91	118.60
35	BB	1020	A	N1-C2-N3	7.18	132.89	129.30
35	BB	2125	G	N7-C8-N9	-7.18	109.51	113.10
35	BB	2882	A	C4'-C3'-C2'	-7.18	95.42	102.60
1	AA	32	A	C4-C5-C6	7.18	120.59	117.00
1	AA	567	G	C5-C6-O6	-7.18	124.29	128.60
1	AA	589	U	O4'-C1'-N1	7.18	113.95	108.20
1	AA	688	G	N3-C4-N9	-7.18	121.69	126.00
35	BB	182	A	O4'-C1'-N9	7.18	113.95	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	757	G	N1-C6-O6	7.18	124.21	119.90
35	BB	1074	G	C8-N9-C4	-7.18	103.53	106.40
35	BB	1715	G	N3-C2-N2	7.18	124.93	119.90
35	BB	2208	C	C2-N3-C4	7.18	123.49	119.90
35	BB	2364	C	C4-C5-C6	7.18	120.99	117.40
1	AA	55	A	N1-C6-N6	7.18	122.91	118.60
23	AX	16	C	C2-N1-C1'	7.18	126.70	118.80
1	AA	156	C	C4-C5-C6	7.18	120.99	117.40
35	BB	539	G	C5-C6-N1	-7.18	107.91	111.50
35	BB	936	A	N1-C2-N3	7.18	132.89	129.30
35	BB	1045	C	P-O3'-C3'	7.18	128.31	119.70
35	BB	1870	C	C2-N3-C4	7.18	123.49	119.90
35	BB	2000	C	C6-N1-C2	-7.18	117.43	120.30
41	BH	50	ARG	NE-CZ-NH1	7.18	123.89	120.30
1	AA	592	G	C5-C6-O6	-7.18	124.29	128.60
35	BB	49	A	C5-C6-N1	-7.18	114.11	117.70
35	BB	880	G	N1-C6-O6	7.18	124.21	119.90
35	BB	1147	A	O4'-C1'-N9	7.18	113.94	108.20
35	BB	1385	A	O4'-C1'-N9	7.18	113.94	108.20
35	BB	2219	U	O4'-C1'-N1	7.18	113.94	108.20
35	BB	2572	A	C4-C5-N7	-7.18	107.11	110.70
35	BB	2631	G	C5-N7-C8	-7.18	100.71	104.30
1	AA	220	G	C6-N1-C2	-7.17	120.80	125.10
1	AA	333	U	N3-C2-O2	-7.17	117.18	122.20
1	AA	418	C	C5-C4-N4	-7.17	115.18	120.20
1	AA	558	G	N1-C2-N3	-7.17	119.59	123.90
1	AA	573	A	N9-C4-C5	7.17	108.67	105.80
8	AH	76	ARG	NH1-CZ-NH2	-7.17	111.51	119.40
35	BB	112	U	C6-N1-C2	-7.17	116.70	121.00
35	BB	402	A	C4-C5-C6	7.17	120.59	117.00
35	BB	644	A	O4'-C1'-N9	7.17	113.94	108.20
35	BB	1431	A	C5-C6-N6	-7.17	117.96	123.70
35	BB	1702	G	C4-C5-C6	7.17	123.11	118.80
35	BB	1906	G	N9-C4-C5	-7.17	102.53	105.40
37	BD	13	ARG	NE-CZ-NH2	-7.17	116.71	120.30
1	AA	933	G	C5-C6-N1	-7.17	107.91	111.50
1	AA	342	C	C2-N3-C4	7.17	123.49	119.90
1	AA	1404	C	C6-N1-C1'	-7.17	112.19	120.80
34	BA	60	C	C6-N1-C2	-7.17	117.43	120.30
35	BB	140	C	C3'-C2'-C1'	-7.17	95.76	101.50
35	BB	1068	G	N3-C2-N2	7.17	124.92	119.90
35	BB	2793	C	C4-C5-C6	7.17	120.99	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	430	A	N9-C4-C5	7.17	108.67	105.80
35	BB	569	U	O4'-C1'-N1	7.17	113.94	108.20
35	BB	829	A	C5-C6-N1	-7.17	114.11	117.70
35	BB	950	G	C5-C6-O6	-7.17	124.30	128.60
35	BB	1090	A	C5-N7-C8	7.17	107.48	103.90
1	AA	701	U	C4'-C3'-C2'	-7.17	95.43	102.60
1	AA	978	A	C4-C5-C6	7.17	120.58	117.00
1	AA	1047	G	N1-C6-O6	7.17	124.20	119.90
1	AA	1162	C	N3-C4-C5	-7.17	119.03	121.90
1	AA	1322	C	C6-N1-C1'	-7.17	112.20	120.80
1	AA	1381	U	C1'-O4'-C4'	-7.17	104.17	109.90
2	AB	49	PHE	CB-CG-CD1	-7.17	115.78	120.80
35	BB	53	A	C5-C6-N6	-7.17	117.97	123.70
35	BB	71	A	C5-C6-N6	-7.17	117.97	123.70
35	BB	1246	A	C8-N9-C4	-7.17	102.93	105.80
35	BB	1419	A	C8-N9-C4	-7.17	102.93	105.80
35	BB	2093	G	N3-C4-N9	-7.17	121.70	126.00
36	BC	62	ARG	NE-CZ-NH1	7.17	123.89	120.30
1	AA	188	C	C5-C6-N1	7.17	124.58	121.00
1	AA	435	A	N9-C4-C5	7.17	108.67	105.80
1	AA	577	G	C8-N9-C4	7.17	109.27	106.40
35	BB	602	A	C2-N3-C4	-7.17	107.02	110.60
35	BB	2502	G	O4'-C1'-N9	7.17	113.93	108.20
1	AA	1227	A	N9-C4-C5	-7.17	102.93	105.80
35	BB	228	C	O4'-C4'-C3'	-7.17	96.83	104.00
35	BB	1599	U	C5-C4-O4	7.17	130.20	125.90
35	BB	2398	U	C5-C4-O4	-7.17	121.60	125.90
1	AA	16	A	N3-C4-C5	-7.16	121.79	126.80
1	AA	569	C	C4-C5-C6	-7.16	113.82	117.40
1	AA	694	A	C4-C5-C6	7.16	120.58	117.00
34	BA	37	C	N3-C4-C5	-7.16	119.03	121.90
35	BB	585	G	N1-C6-O6	7.16	124.20	119.90
35	BB	1036	G	N1-C2-N3	-7.16	119.60	123.90
35	BB	1245	G	C8-N9-C4	-7.16	103.53	106.40
35	BB	1333	G	N7-C8-N9	-7.16	109.52	113.10
35	BB	2088	A	C5-N7-C8	7.16	107.48	103.90
35	BB	2115	G	C4'-C3'-C2'	-7.16	95.44	102.60
35	BB	2157	G	N1-C6-O6	7.16	124.20	119.90
35	BB	2193	G	C4-C5-C6	7.16	123.10	118.80
35	BB	2228	G	C2-N3-C4	7.16	115.48	111.90
35	BB	2693	G	C4-C5-C6	7.16	123.10	118.80
1	AA	301	G	O4'-C1'-N9	7.16	113.93	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	482	A	N1-C2-N3	7.16	132.88	129.30
35	BB	608	A	C2-N3-C4	-7.16	107.02	110.60
35	BB	712	G	O4'-C1'-N9	7.16	113.93	108.20
35	BB	1011	G	O4'-C1'-N9	7.16	113.93	108.20
35	BB	1676	A	C5-C6-N6	-7.16	117.97	123.70
35	BB	1760	C	O4'-C1'-N1	7.16	113.93	108.20
1	AA	981	U	O4'-C1'-N1	7.16	113.93	108.20
1	AA	1036	A	C6-C5-N7	-7.16	127.29	132.30
1	AA	1302	C	N3-C4-N4	7.16	123.01	118.00
35	BB	15	G	C6-C5-N7	-7.16	126.10	130.40
35	BB	1897	G	N1-C2-N2	-7.16	109.76	116.20
35	BB	2048	G	C2-N3-C4	7.16	115.48	111.90
35	BB	2847	U	OP1-P-OP2	-7.16	108.86	119.60
1	AA	75	G	C6-C5-N7	-7.16	126.11	130.40
1	AA	135	C	O4'-C1'-N1	7.16	113.92	108.20
1	AA	349	A	C6-N1-C2	-7.16	114.31	118.60
1	AA	1395	C	C1'-O4'-C4'	7.16	115.62	109.90
14	AN	98	ALA	N-CA-CB	7.16	120.12	110.10
34	BA	101	A	O4'-C1'-N9	7.16	113.92	108.20
35	BB	470	A	C5-C6-N1	7.16	121.28	117.70
35	BB	686	U	O4'-C1'-C2'	-7.16	98.64	105.80
35	BB	1824	G	N1-C6-O6	7.16	124.19	119.90
35	BB	1826	G	N1-C2-N2	-7.16	109.76	116.20
35	BB	2801	G	O4'-C4'-C3'	-7.16	96.84	104.00
53	BT	60	THR	CA-CB-CG2	-7.16	102.38	112.40
1	AA	153	C	C2-N3-C4	7.15	123.48	119.90
35	BB	1642	G	O4'-C1'-N9	7.15	113.92	108.20
1	AA	22	G	C6-N1-C2	7.15	129.39	125.10
1	AA	647	C	P-O5'-C5'	-7.15	109.46	120.90
1	AA	1106	G	C1'-O4'-C4'	-7.15	104.18	109.90
35	BB	569	U	P-O3'-C3'	-7.15	111.12	119.70
35	BB	936	A	N9-C4-C5	7.15	108.66	105.80
35	BB	1271	G	O5'-P-OP1	7.15	119.28	110.70
35	BB	1979	U	C5-C4-O4	-7.15	121.61	125.90
35	BB	2903	U	C5'-C4'-O4'	7.15	117.68	109.10
1	AA	222	C	C2-N3-C4	7.15	123.48	119.90
1	AA	360	G	C4-C5-C6	7.15	123.09	118.80
1	AA	920	U	O4'-C1'-N1	7.15	113.92	108.20
1	AA	1153	G	C5-N7-C8	-7.15	100.72	104.30
35	BB	1874	C	C5-C6-N1	7.15	124.58	121.00
35	BB	2781	A	O4'-C1'-N9	7.15	113.92	108.20
1	AA	861	G	C4-C5-C6	7.15	123.09	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	955	U	P-O3'-C3'	-7.15	111.12	119.70
34	BA	43	C	P-O5'-C5'	-7.15	109.46	120.90
35	BB	1266	G	N1-C6-O6	7.15	124.19	119.90
35	BB	2193	G	O4'-C1'-N9	7.15	113.92	108.20
35	BB	2475	C	N3-C4-N4	7.15	123.00	118.00
1	AA	1455	G	C6-C5-N7	-7.15	126.11	130.40
32	B7	21	PHE	CB-CG-CD1	-7.15	115.80	120.80
35	BB	1207	C	N3-C2-O2	-7.15	116.90	121.90
35	BB	2256	G	O4'-C1'-N9	7.15	113.92	108.20
35	BB	2773	C	N1-C2-O2	-7.15	114.61	118.90
41	BH	68	ARG	NE-CZ-NH2	-7.15	116.73	120.30
53	BT	73	ARG	NE-CZ-NH2	-7.15	116.73	120.30
1	AA	722	G	O5'-P-OP1	-7.15	99.27	105.70
35	BB	796	C	O4'-C1'-N1	7.15	113.92	108.20
35	BB	1469	A	N1-C6-N6	7.15	122.89	118.60
1	AA	486	U	P-O3'-C3'	-7.14	111.13	119.70
1	AA	730	G	N1-C2-N3	-7.14	119.61	123.90
1	AA	1166	G	C5-C6-N1	-7.14	107.93	111.50
1	AA	1404	C	O4'-C1'-N1	7.14	113.92	108.20
35	BB	646	U	C5-C6-N1	7.14	126.27	122.70
35	BB	985	C	C6-N1-C2	-7.14	117.44	120.30
35	BB	1573	G	C6-N1-C2	7.14	129.39	125.10
35	BB	1842	G	N9-C4-C5	7.14	108.26	105.40
35	BB	1890	A	N1-C6-N6	7.14	122.89	118.60
35	BB	2497	A	C4-C5-C6	7.14	120.57	117.00
1	AA	420	U	P-O3'-C3'	7.14	128.27	119.70
1	AA	687	A	C5-C6-N6	-7.14	117.99	123.70
1	AA	849	G	C6-N1-C2	7.14	129.38	125.10
35	BB	331	C	O4'-C1'-N1	7.14	113.91	108.20
35	BB	438	G	N3-C4-C5	-7.14	125.03	128.60
35	BB	1090	A	C4-C5-N7	-7.14	107.13	110.70
1	AA	567	G	N7-C8-N9	7.14	116.67	113.10
35	BB	2564	A	N7-C8-N9	7.14	117.37	113.80
1	AA	404	G	C5-C6-N1	-7.14	107.93	111.50
1	AA	801	U	N3-C4-O4	-7.14	114.40	119.40
1	AA	905	U	C5-C4-O4	-7.14	121.62	125.90
35	BB	117	G	C6-C5-N7	-7.14	126.12	130.40
35	BB	739	A	N7-C8-N9	7.14	117.37	113.80
35	BB	777	G	N1-C6-O6	7.14	124.18	119.90
35	BB	1378	A	C5-C6-N1	-7.14	114.13	117.70
35	BB	1638	C	O4'-C1'-N1	7.14	113.91	108.20
1	AA	275	G	P-O5'-C5'	7.14	132.32	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1016	A	C4-C5-C6	7.14	120.57	117.00
1	AA	1145	A	N9-C4-C5	7.14	108.66	105.80
35	BB	1294	U	N3-C4-C5	7.14	118.88	114.60
35	BB	1570	A	C8-N9-C4	7.14	108.66	105.80
1	AA	767	A	C5-C6-N6	-7.14	117.99	123.70
1	AA	1047	G	C8-N9-C4	-7.14	103.55	106.40
35	BB	1036	G	C2-N3-C4	7.14	115.47	111.90
35	BB	1596	A	C4-C5-C6	7.14	120.57	117.00
35	BB	1674	G	C4-C5-N7	-7.14	107.95	110.80
35	BB	2350	C	O4'-C1'-N1	7.14	113.91	108.20
1	AA	245	U	P-O5'-C5'	-7.13	109.48	120.90
1	AA	395	C	O4'-C1'-N1	7.13	113.91	108.20
1	AA	1429	A	C8-N9-C4	-7.13	102.95	105.80
34	BA	72	G	N3-C4-N9	7.13	130.28	126.00
35	BB	25	U	C6-N1-C2	-7.13	116.72	121.00
35	BB	243	U	P-O5'-C5'	7.13	132.32	120.90
35	BB	561	G	O4'-C1'-N9	7.13	113.91	108.20
35	BB	925	A	C3'-C2'-C1'	-7.13	95.79	101.50
35	BB	2179	C	C5'-C4'-O4'	7.13	117.66	109.10
35	BB	2508	G	C8-N9-C4	-7.13	103.55	106.40
1	AA	445	G	C4-C5-C6	7.13	123.08	118.80
1	AA	1497	G	N3-C2-N2	7.13	124.89	119.90
35	BB	1498	C	N3-C4-C5	-7.13	119.05	121.90
35	BB	2353	G	O4'-C4'-C3'	-7.13	96.87	104.00
1	AA	675	A	C4-C5-N7	-7.13	107.14	110.70
35	BB	311	A	C4-C5-C6	7.13	120.57	117.00
35	BB	532	A	P-O3'-C3'	7.13	128.26	119.70
35	BB	1515	A	C4-C5-N7	-7.13	107.14	110.70
35	BB	1759	A	C1'-O4'-C4'	-7.13	104.19	109.90
35	BB	2227	A	C5-N7-C8	7.13	107.47	103.90
35	BB	2300	C	C2-N3-C4	7.13	123.47	119.90
35	BB	2674	G	N3-C4-N9	7.13	130.28	126.00
1	AA	784	A	C5-C6-N6	-7.13	118.00	123.70
34	BA	101	A	C4-C5-N7	7.13	114.27	110.70
35	BB	479	A	C8-N9-C4	7.13	108.65	105.80
35	BB	870	U	C6-N1-C2	7.13	125.28	121.00
35	BB	1561	C	O4'-C4'-C3'	-7.13	96.87	104.00
35	BB	1972	G	C4-C5-C6	7.13	123.08	118.80
35	BB	2277	G	C8-N9-C4	7.13	109.25	106.40
46	BM	55	ARG	NE-CZ-NH2	7.13	123.86	120.30
1	AA	172	A	C2-N3-C4	7.13	114.17	110.60
35	BB	3	U	N3-C4-O4	7.13	124.39	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	745	G	N3-C2-N2	7.13	124.89	119.90
35	BB	989	G	C4-C5-N7	-7.13	107.95	110.80
35	BB	1016	G	C4-C5-C6	7.13	123.08	118.80
35	BB	1491	G	C6-C5-N7	-7.13	126.12	130.40
35	BB	1593	A	C4-C5-N7	-7.13	107.14	110.70
35	BB	1984	G	N3-C4-C5	7.13	132.16	128.60
35	BB	2042	A	C8-N9-C4	7.13	108.65	105.80
35	BB	2121	G	N3-C2-N2	7.13	124.89	119.90
1	AA	177	G	P-O5'-C5'	7.13	132.30	120.90
1	AA	682	G	C4'-C3'-C2'	-7.13	95.47	102.60
35	BB	350	G	C5-C6-N1	-7.13	107.94	111.50
35	BB	980	A	N1-C2-N3	7.13	132.86	129.30
35	BB	1422	G	N1-C2-N3	-7.13	119.62	123.90
35	BB	1881	C	N3-C4-N4	7.13	122.99	118.00
35	BB	1894	C	C5-C4-N4	-7.13	115.21	120.20
35	BB	2778	A	C6-C5-N7	-7.13	127.31	132.30
34	BA	46	A	C8-N9-C4	7.12	108.65	105.80
35	BB	1298	C	O4'-C1'-N1	7.12	113.90	108.20
1	AA	565	U	N3-C2-O2	7.12	127.19	122.20
34	BA	38	C	C5-C4-N4	-7.12	115.21	120.20
34	BA	95	U	O4'-C1'-N1	7.12	113.90	108.20
35	BB	438	G	C5-C6-O6	-7.12	124.33	128.60
35	BB	1169	A	C5-N7-C8	7.12	107.46	103.90
35	BB	2324	U	P-O3'-C3'	7.12	128.25	119.70
1	AA	79	G	N9-C4-C5	7.12	108.25	105.40
1	AA	203	G	C3'-C2'-C1'	-7.12	95.80	101.50
1	AA	929	G	O4'-C1'-N9	7.12	113.90	108.20
35	BB	117	G	N9-C4-C5	-7.12	102.55	105.40
35	BB	233	A	C2-N3-C4	-7.12	107.04	110.60
35	BB	261	G	C5-N7-C8	-7.12	100.74	104.30
35	BB	430	A	C5-C6-N6	-7.12	118.00	123.70
35	BB	1238	G	O4'-C4'-C3'	-7.12	96.88	104.00
35	BB	1291	C	P-O3'-C3'	-7.12	111.15	119.70
35	BB	2147	A	C5-C6-N6	-7.12	118.00	123.70
35	BB	2284	A	N1-C2-N3	7.12	132.86	129.30
1	AA	392	C	C5-C6-N1	-7.12	117.44	121.00
1	AA	768	A	C5-N7-C8	7.12	107.46	103.90
1	AA	1229	A	N1-C6-N6	7.12	122.87	118.60
1	AA	1455	G	C5-C6-N1	-7.12	107.94	111.50
34	BA	43	C	C5-C4-N4	-7.12	115.22	120.20
35	BB	1267	U	C6-N1-C2	-7.12	116.73	121.00
35	BB	1516	G	C4-C5-N7	7.12	113.65	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1694	C	C4-C5-C6	7.12	120.96	117.40
1	AA	52	C	N3-C4-N4	7.12	122.98	118.00
1	AA	100	G	C6-N1-C2	7.12	129.37	125.10
1	AA	527	G	C6-C5-N7	-7.12	126.13	130.40
1	AA	666	G	C5-C6-N1	-7.12	107.94	111.50
1	AA	866	C	N3-C4-N4	7.12	122.98	118.00
35	BB	106	C	C5-C4-N4	-7.12	115.22	120.20
35	BB	580	U	C5-C6-N1	7.12	126.26	122.70
35	BB	690	G	C5-C6-O6	-7.12	124.33	128.60
35	BB	1029	A	C5-C6-N6	-7.12	118.01	123.70
35	BB	1173	U	C3'-C2'-C1'	7.12	107.19	101.50
35	BB	1492	G	C5-C6-O6	-7.12	124.33	128.60
35	BB	1877	A	C4-C5-C6	7.12	120.56	117.00
1	AA	1465	A	C2-N3-C4	-7.12	107.04	110.60
34	BA	82	U	C5-C6-N1	7.12	126.26	122.70
35	BB	439	A	C8-N9-C4	-7.12	102.95	105.80
43	BJ	89	PHE	CB-CG-CD2	7.12	125.78	120.80
45	BL	136	GLU	N-CA-CB	7.12	123.41	110.60
1	AA	1031	C	P-O3'-C3'	7.11	128.24	119.70
27	B2	9	THR	CA-CB-CG2	-7.11	102.44	112.40
35	BB	938	G	N3-C4-C5	7.11	132.16	128.60
35	BB	1162	G	C5-C6-O6	-7.11	124.33	128.60
35	BB	1410	G	C4-C5-N7	-7.11	107.95	110.80
35	BB	1756	G	C5-C6-O6	-7.11	124.33	128.60
35	BB	1807	G	O4'-C1'-N9	7.11	113.89	108.20
35	BB	2059	A	C5-C6-N1	-7.11	114.14	117.70
35	BB	2810	A	C8-N9-C4	-7.11	102.95	105.80
35	BB	1167	C	C6-N1-C2	-7.11	117.45	120.30
35	BB	2250	G	C6-C5-N7	-7.11	126.13	130.40
35	BB	2269	G	C5-C6-N1	-7.11	107.94	111.50
1	AA	882	C	N3-C4-C5	-7.11	119.06	121.90
1	AA	1236	A	C2-N3-C4	-7.11	107.05	110.60
1	AA	1428	A	C2-N3-C4	-7.11	107.05	110.60
22	AV	37	G	C4-C5-C6	7.11	123.07	118.80
35	BB	159	G	C4-C5-N7	-7.11	107.96	110.80
35	BB	283	G	OP1-P-OP2	-7.11	108.93	119.60
35	BB	973	A	C5-C6-N1	-7.11	114.14	117.70
35	BB	975	A	C8-N9-C4	-7.11	102.96	105.80
35	BB	1702	G	N7-C8-N9	7.11	116.66	113.10
1	AA	80	A	P-O3'-C3'	7.11	128.23	119.70
1	AA	834	U	N1-C2-N3	7.11	119.17	114.90
34	BA	9	G	C5'-C4'-O4'	7.11	117.63	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	60	C	C2-N1-C1'	7.11	126.62	118.80
35	BB	779	U	C5-C6-N1	7.11	126.25	122.70
1	AA	412	A	N1-C6-N6	7.11	122.86	118.60
1	AA	678	U	O4'-C1'-N1	7.11	113.89	108.20
9	AI	19	PHE	CB-CG-CD2	7.11	125.78	120.80
34	BA	18	G	C6-C5-N7	-7.11	126.14	130.40
35	BB	576	U	O4'-C1'-N1	7.11	113.89	108.20
35	BB	1699	G	N7-C8-N9	7.11	116.65	113.10
35	BB	2621	G	N3-C4-C5	7.11	132.15	128.60
1	AA	1071	C	N3-C4-C5	-7.11	119.06	121.90
1	AA	1308	U	O4'-C4'-C3'	-7.11	96.89	104.00
35	BB	91	A	C5-C6-N1	-7.11	114.15	117.70
35	BB	285	G	O4'-C1'-N9	7.11	113.88	108.20
35	BB	819	A	N1-C2-N3	7.11	132.85	129.30
35	BB	1538	G	C6-C5-N7	-7.11	126.14	130.40
35	BB	1888	G	N7-C8-N9	-7.11	109.55	113.10
35	BB	2552	U	O4'-C1'-N1	7.11	113.89	108.20
1	AA	280	C	O4'-C1'-N1	7.10	113.88	108.20
1	AA	744	C	C2-N3-C4	7.10	123.45	119.90
4	AD	103	ARG	NE-CZ-NH1	7.10	123.85	120.30
35	BB	16	C	N3-C4-C5	-7.10	119.06	121.90
35	BB	1057	A	N1-C6-N6	7.10	122.86	118.60
35	BB	1473	G	C4-C5-N7	-7.10	107.96	110.80
1	AA	640	A	C8-N9-C4	-7.10	102.96	105.80
1	AA	1162	C	P-O3'-C3'	-7.10	111.18	119.70
1	AA	1351	U	C5-C4-O4	7.10	130.16	125.90
35	BB	2689	U	C5-C4-O4	7.10	130.16	125.90
35	BB	2854	G	C5-C6-O6	-7.10	124.34	128.60
22	AV	15	G	C5-C6-O6	-7.10	124.34	128.60
22	AV	63	U	O4'-C1'-N1	7.10	113.88	108.20
35	BB	220	G	C6-C5-N7	-7.10	126.14	130.40
35	BB	1099	G	C5-C6-N1	7.10	115.05	111.50
35	BB	1103	A	O4'-C1'-N9	7.10	113.88	108.20
35	BB	1811	G	C5-C6-O6	-7.10	124.34	128.60
35	BB	2103	C	C6-N1-C2	7.10	123.14	120.30
35	BB	2291	U	N3-C4-C5	-7.10	110.34	114.60
1	AA	879	C	C5-C4-N4	-7.10	115.23	120.20
35	BB	288	U	N3-C4-O4	7.10	124.37	119.40
35	BB	605	G	N1-C6-O6	7.10	124.16	119.90
35	BB	979	A	C5-C6-N1	-7.10	114.15	117.70
35	BB	1328	A	C1'-O4'-C4'	7.10	115.58	109.90
35	BB	1691	C	N3-C4-N4	7.10	122.97	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1710	G	C5-N7-C8	7.10	107.85	104.30
35	BB	195	A	C5-C6-N6	-7.10	118.02	123.70
35	BB	886	A	C5-N7-C8	7.10	107.45	103.90
35	BB	1030	C	N3-C4-N4	7.10	122.97	118.00
35	BB	1058	U	C5'-C4'-C3'	-7.10	104.65	116.00
35	BB	1947	C	O4'-C1'-N1	7.10	113.88	108.20
1	AA	491	G	C5-C6-O6	-7.09	124.34	128.60
1	AA	1022	A	N7-C8-N9	7.09	117.35	113.80
1	AA	1072	G	C6-N1-C2	7.09	129.36	125.10
35	BB	86	G	N1-C6-O6	7.09	124.16	119.90
35	BB	364	C	N3-C2-O2	-7.09	116.93	121.90
35	BB	874	G	O4'-C1'-N9	7.09	113.88	108.20
35	BB	1983	G	N1-C6-O6	7.09	124.16	119.90
35	BB	2515	C	N3-C4-N4	7.09	122.97	118.00
35	BB	2898	U	N1-C1'-C2'	-7.09	104.19	112.00
1	AA	614	C	N3-C4-C5	-7.09	119.06	121.90
35	BB	903	C	C4'-C3'-C2'	-7.09	95.51	102.60
35	BB	1234	U	N3-C4-O4	7.09	124.36	119.40
1	AA	249	U	N1-C2-N3	-7.09	110.64	114.90
1	AA	280	C	C6-N1-C2	7.09	123.14	120.30
1	AA	359	G	N9-C4-C5	-7.09	102.56	105.40
1	AA	411	A	C8-N9-C4	7.09	108.64	105.80
1	AA	430	A	N1-C6-N6	7.09	122.85	118.60
1	AA	1370	G	O4'-C4'-C3'	-7.09	96.91	104.00
1	AA	1413	A	C6-N1-C2	-7.09	114.34	118.60
34	BA	13	G	N3-C4-C5	-7.09	125.05	128.60
34	BA	57	A	N1-C2-N3	7.09	132.85	129.30
35	BB	231	A	N7-C8-N9	-7.09	110.25	113.80
35	BB	1103	A	C4-C5-C6	7.09	120.55	117.00
35	BB	2145	C	C4-C5-C6	-7.09	113.85	117.40
1	AA	462	G	N1-C2-N3	-7.09	119.65	123.90
1	AA	819	A	C5-C6-N6	-7.09	118.03	123.70
34	BA	18	G	C5-C6-N1	-7.09	107.95	111.50
35	BB	524	G	C6-C5-N7	-7.09	126.15	130.40
35	BB	602	A	N7-C8-N9	-7.09	110.25	113.80
35	BB	1303	G	C4-C5-N7	-7.09	107.97	110.80
39	BF	91	ARG	NE-CZ-NH1	7.09	123.84	120.30
35	BB	1157	G	N1-C6-O6	7.09	124.15	119.90
1	AA	275	G	N3-C4-N9	7.09	130.25	126.00
1	AA	1502	A	C5-N7-C8	7.09	107.44	103.90
35	BB	125	A	O4'-C1'-N9	7.09	113.87	108.20
35	BB	487	C	C5-C4-N4	-7.09	115.24	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	492	A	N3-C4-C5	-7.09	121.84	126.80
35	BB	907	G	C5-C6-N1	-7.09	107.96	111.50
35	BB	1080	A	C8-N9-C4	-7.09	102.97	105.80
35	BB	492	A	N1-C2-N3	7.08	132.84	129.30
35	BB	1256	G	C4-C5-C6	7.08	123.05	118.80
1	AA	893	C	C6-N1-C2	7.08	123.13	120.30
1	AA	1031	C	C5-C4-N4	-7.08	115.24	120.20
1	AA	1163	A	N7-C8-N9	7.08	117.34	113.80
1	AA	1249	C	O4'-C1'-N1	7.08	113.87	108.20
1	AA	1258	G	C5-C6-O6	-7.08	124.35	128.60
2	AB	70	GLY	N-CA-C	-7.08	95.39	113.10
35	BB	488	G	C6-N1-C2	7.08	129.35	125.10
35	BB	1140	C	N3-C4-N4	7.08	122.96	118.00
35	BB	2156	G	N7-C8-N9	-7.08	109.56	113.10
35	BB	2610	C	N3-C2-O2	7.08	126.86	121.90
1	AA	1447	A	C5-N7-C8	7.08	107.44	103.90
34	BA	73	A	N9-C4-C5	7.08	108.63	105.80
35	BB	346	A	C4'-C3'-C2'	-7.08	95.52	102.60
35	BB	681	G	C4-C5-N7	-7.08	107.97	110.80
35	BB	946	C	N3-C4-N4	7.08	122.96	118.00
35	BB	1435	G	C4-C5-N7	-7.08	107.97	110.80
35	BB	1719	G	C6-C5-N7	-7.08	126.15	130.40
35	BB	1999	C	N1-C2-O2	7.08	123.15	118.90
35	BB	2053	G	N9-C4-C5	-7.08	102.57	105.40
35	BB	2532	G	C5-C6-O6	-7.08	124.35	128.60
35	BB	2718	G	C5-C6-O6	-7.08	124.35	128.60
1	AA	756	C	N3-C4-C5	-7.08	119.07	121.90
34	BA	34	A	C8-N9-C4	-7.08	102.97	105.80
35	BB	8	C	O4'-C1'-N1	7.08	113.86	108.20
35	BB	2700	A	C5-C6-N1	-7.08	114.16	117.70
1	AA	336	A	C6-N1-C2	7.08	122.85	118.60
1	AA	846	G	N3-C2-N2	7.08	124.86	119.90
1	AA	889	A	C5-N7-C8	7.08	107.44	103.90
35	BB	128	C	C6-N1-C2	-7.08	117.47	120.30
35	BB	295	G	C6-C5-N7	-7.08	126.15	130.40
35	BB	1350	C	N3-C4-N4	7.08	122.95	118.00
35	BB	1753	G	N3-C4-N9	-7.08	121.75	126.00
35	BB	1864	U	P-O5'-C5'	-7.08	109.58	120.90
35	BB	2088	A	C4'-C3'-C2'	-7.08	95.52	102.60
44	BK	112	PHE	CB-CG-CD1	-7.08	115.84	120.80
1	AA	201	G	C2-N3-C4	7.08	115.44	111.90
1	AA	451	A	C5-C6-N1	-7.08	114.16	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	977	A	C5'-C4'-O4'	7.08	117.59	109.10
35	BB	145	C	O4'-C1'-N1	7.08	113.86	108.20
35	BB	807	U	N3-C4-C5	-7.08	110.35	114.60
35	BB	1554	U	O4'-C1'-N1	7.08	113.86	108.20
35	BB	2446	G	N3-C4-C5	7.08	132.14	128.60
1	AA	618	C	O4'-C1'-N1	7.08	113.86	108.20
1	AA	1504	G	O4'-C1'-N9	7.08	113.86	108.20
35	BB	200	U	N3-C4-C5	-7.08	110.36	114.60
35	BB	364	C	P-O5'-C5'	-7.08	109.58	120.90
35	BB	521	U	N3-C4-C5	-7.08	110.35	114.60
35	BB	1705	A	N7-C8-N9	-7.08	110.26	113.80
35	BB	2104	C	C1'-O4'-C4'	-7.08	104.24	109.90
35	BB	2126	A	N9-C4-C5	7.08	108.63	105.80
35	BB	2412	A	C4-C5-N7	-7.08	107.16	110.70
35	BB	2767	C	N1-C2-O2	-7.08	114.66	118.90
35	BB	2882	A	N9-C4-C5	7.08	108.63	105.80
47	BN	90	ARG	NE-CZ-NH2	-7.08	116.76	120.30
1	AA	1415	G	C4-C5-N7	-7.07	107.97	110.80
1	AA	1436	U	C6-N1-C2	-7.07	116.76	121.00
35	BB	699	A	N3-C4-N9	7.07	133.06	127.40
35	BB	1229	C	N3-C4-N4	7.07	122.95	118.00
35	BB	1857	G	N3-C4-N9	7.07	130.24	126.00
35	BB	2575	C	O4'-C1'-N1	7.07	113.86	108.20
35	BB	46	G	C2-N3-C4	7.07	115.44	111.90
35	BB	533	G	C5-C6-N1	-7.07	107.96	111.50
35	BB	2376	A	C8-N9-C4	-7.07	102.97	105.80
35	BB	2490	G	O4'-C1'-N9	7.07	113.86	108.20
35	BB	2814	A	C4-C5-C6	7.07	120.54	117.00
1	AA	602	A	N1-C6-N6	7.07	122.84	118.60
1	AA	711	G	N9-C4-C5	-7.07	102.57	105.40
1	AA	1319	A	O4'-C1'-N9	7.07	113.86	108.20
22	AV	37	G	N1-C2-N3	-7.07	119.66	123.90
34	BA	47	C	N1-C2-O2	7.07	123.14	118.90
35	BB	477	A	C6-N1-C2	7.07	122.84	118.60
35	BB	800	A	C6-C5-N7	-7.07	127.35	132.30
35	BB	1687	G	O4'-C1'-N9	7.07	113.86	108.20
1	AA	25	C	C5-C6-N1	7.07	124.53	121.00
1	AA	282	A	N9-C4-C5	-7.07	102.97	105.80
35	BB	530	G	O5'-P-OP2	-7.07	99.34	105.70
35	BB	1253	A	C4-C5-C6	7.07	120.53	117.00
35	BB	2762	C	C2-N3-C4	7.07	123.44	119.90
35	BB	2864	G	N1-C2-N2	-7.07	109.84	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	879	C	C6-N1-C2	-7.07	117.47	120.30
35	BB	943	A	N1-C2-N3	7.07	132.83	129.30
35	BB	967	U	C5-C4-O4	-7.07	121.66	125.90
35	BB	1045	C	N3-C4-C5	-7.07	119.07	121.90
35	BB	1643	G	N7-C8-N9	7.07	116.63	113.10
35	BB	2842	G	N1-C2-N3	-7.07	119.66	123.90
1	AA	275	G	N9-C4-C5	-7.07	102.57	105.40
1	AA	550	G	C8-N9-C4	-7.07	103.57	106.40
1	AA	789	U	O4'-C1'-N1	7.07	113.85	108.20
1	AA	1154	G	C8-N9-C4	-7.07	103.57	106.40
1	AA	1220	G	N3-C4-N9	7.07	130.24	126.00
1	AA	1365	G	O4'-C1'-N9	7.07	113.85	108.20
19	AS	60	PHE	CB-CG-CD1	7.07	125.75	120.80
35	BB	40	U	N3-C2-O2	-7.07	117.25	122.20
35	BB	108	G	O4'-C1'-N9	7.07	113.85	108.20
35	BB	798	G	O4'-C1'-N9	7.07	113.85	108.20
35	BB	1246	A	C5-N7-C8	7.07	107.43	103.90
35	BB	1300	G	C4-C5-C6	7.07	123.04	118.80
35	BB	1538	G	N3-C2-N2	7.07	124.85	119.90
35	BB	2402	U	N1-C2-N3	-7.07	110.66	114.90
35	BB	2556	C	N3-C4-C5	-7.07	119.07	121.90
1	AA	1043	G	O4'-C4'-C3'	-7.06	96.94	104.00
1	AA	1224	U	C2-N3-C4	-7.06	122.76	127.00
35	BB	1222	U	C5-C4-O4	-7.06	121.66	125.90
35	BB	1567	G	C4'-C3'-C2'	7.06	109.66	102.60
35	BB	1577	C	N3-C4-C5	-7.06	119.08	121.90
35	BB	1663	G	O4'-C1'-N9	7.06	113.85	108.20
35	BB	2647	U	N3-C2-O2	-7.06	117.25	122.20
1	AA	597	G	C6-C5-N7	-7.06	126.16	130.40
1	AA	717	U	C5-C4-O4	7.06	130.14	125.90
1	AA	1190	G	N1-C2-N3	-7.06	119.66	123.90
35	BB	323	C	N1-C2-O2	7.06	123.14	118.90
35	BB	1002	G	C5-C6-O6	-7.06	124.36	128.60
35	BB	1041	G	N1-C6-O6	7.06	124.14	119.90
35	BB	1884	G	C2-N3-C4	7.06	115.43	111.90
35	BB	2734	A	C4-C5-C6	7.06	120.53	117.00
1	AA	437	U	C5-C6-N1	7.06	126.23	122.70
1	AA	47	C	C6-N1-C2	-7.06	117.48	120.30
1	AA	782	A	C5-C6-N6	-7.06	118.05	123.70
30	B5	144	THR	N-CA-CB	7.06	123.71	110.30
35	BB	367	G	C8-N9-C4	-7.06	103.58	106.40
35	BB	519	U	N3-C4-O4	7.06	124.34	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	837	C	N3-C4-N4	7.06	122.94	118.00
35	BB	977	G	N9-C4-C5	7.06	108.22	105.40
35	BB	1399	C	O4'-C1'-N1	7.06	113.85	108.20
35	BB	1422	G	O4'-C1'-N9	7.06	113.85	108.20
35	BB	2014	A	C6-N1-C2	7.06	122.83	118.60
35	BB	2572	A	C5-C6-N6	-7.06	118.05	123.70
1	AA	899	C	O4'-C1'-N1	7.06	113.85	108.20
1	AA	1119	C	N3-C4-C5	-7.06	119.08	121.90
35	BB	432	A	N1-C2-N3	7.06	132.83	129.30
35	BB	1094	U	N1-C2-O2	-7.06	117.86	122.80
35	BB	2668	G	N9-C4-C5	7.06	108.22	105.40
1	AA	332	G	N9-C4-C5	-7.06	102.58	105.40
1	AA	451	A	C5-C6-N6	-7.06	118.06	123.70
1	AA	1359	C	C1'-O4'-C4'	-7.06	104.25	109.90
1	AA	1468	A	C6-C5-N7	-7.06	127.36	132.30
35	BB	306	U	C5-C4-O4	-7.06	121.67	125.90
35	BB	1769	U	O4'-C1'-N1	7.06	113.84	108.20
1	AA	587	G	N3-C2-N2	7.05	124.84	119.90
1	AA	1418	A	C5-C6-N6	-7.05	118.06	123.70
1	AA	1473	G	C5-N7-C8	-7.05	100.77	104.30
35	BB	300	A	C5-C6-N1	-7.05	114.17	117.70
35	BB	919	U	N3-C2-O2	7.05	127.14	122.20
35	BB	995	C	C5-C6-N1	7.05	124.53	121.00
35	BB	1002	G	C4-C5-N7	7.05	113.62	110.80
35	BB	1264	A	O4'-C1'-N9	7.05	113.84	108.20
41	BH	51	ARG	NE-CZ-NH2	-7.05	116.77	120.30
1	AA	963	G	N1-C6-O6	7.05	124.13	119.90
1	AA	1296	C	P-O3'-C3'	7.05	128.16	119.70
35	BB	682	G	C5-N7-C8	-7.05	100.77	104.30
35	BB	1417	C	C5-C4-N4	-7.05	115.26	120.20
1	AA	207	C	C5-C4-N4	-7.05	115.26	120.20
1	AA	559	A	P-O3'-C3'	7.05	128.16	119.70
1	AA	909	A	C5-C6-N1	-7.05	114.17	117.70
8	AH	42	GLU	C-N-CA	7.05	137.11	122.30
39	BF	142	TYR	CB-CG-CD2	-7.05	116.77	121.00
1	AA	210	C	O4'-C1'-N1	7.05	113.84	108.20
1	AA	1419	G	C5-N7-C8	7.05	107.83	104.30
35	BB	543	G	C4-C5-N7	-7.05	107.98	110.80
35	BB	1865	U	N3-C4-O4	7.05	124.33	119.40
35	BB	2238	G	C2-N3-C4	7.05	115.42	111.90
35	BB	2250	G	C6-N1-C2	7.05	129.33	125.10
35	BB	2316	G	N9-C4-C5	-7.05	102.58	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	436	C	C5-C4-N4	-7.05	115.27	120.20
1	AA	516	U	N1-C2-O2	-7.05	117.87	122.80
1	AA	1518	A	N7-C8-N9	7.05	117.32	113.80
35	BB	30	G	O4'-C1'-N9	7.05	113.84	108.20
35	BB	1919	A	C4-C5-C6	7.05	120.52	117.00
35	BB	2148	G	C8-N9-C4	-7.05	103.58	106.40
1	AA	608	A	N9-C4-C5	-7.05	102.98	105.80
1	AA	994	A	C4-C5-C6	7.05	120.52	117.00
30	B5	162	ARG	NE-CZ-NH2	-7.05	116.78	120.30
35	BB	80	G	C4-C5-N7	-7.05	107.98	110.80
35	BB	879	G	C8-N9-C4	-7.05	103.58	106.40
35	BB	1973	G	C5-C6-N1	-7.05	107.98	111.50
1	AA	118	U	N1-C2-O2	-7.04	117.87	122.80
1	AA	246	A	C8-N9-C4	7.04	108.62	105.80
1	AA	549	C	N3-C4-C5	-7.04	119.08	121.90
1	AA	1259	C	O4'-C1'-N1	7.04	113.84	108.20
1	AA	1426	G	N3-C2-N2	7.04	124.83	119.90
35	BB	1557	C	C5-C4-N4	-7.04	115.27	120.20
1	AA	307	C	O4'-C1'-N1	7.04	113.83	108.20
35	BB	1077	A	N3-C4-C5	-7.04	121.87	126.80
35	BB	1140	C	C6-N1-C2	-7.04	117.48	120.30
35	BB	1292	G	O4'-C1'-N9	7.04	113.83	108.20
35	BB	2405	G	O4'-C1'-N9	7.04	113.83	108.20
35	BB	2548	U	O4'-C1'-N1	7.04	113.83	108.20
1	AA	510	A	C5-C6-N1	-7.04	114.18	117.70
1	AA	1468	A	C5-N7-C8	7.04	107.42	103.90
34	BA	98	G	N9-C4-C5	-7.04	102.58	105.40
35	BB	245	G	N1-C2-N3	-7.04	119.67	123.90
35	BB	446	G	N1-C2-N2	-7.04	109.86	116.20
35	BB	1236	G	O4'-C1'-N9	7.04	113.83	108.20
35	BB	1475	G	N3-C2-N2	7.04	124.83	119.90
35	BB	1938	A	C4'-C3'-C2'	7.04	109.64	102.60
35	BB	2136	G	N3-C2-N2	7.04	124.83	119.90
45	BL	12	SER	N-CA-CB	7.04	121.06	110.50
1	AA	974	A	N3-C4-C5	-7.04	121.87	126.80
35	BB	21	A	C4-C5-N7	7.04	114.22	110.70
35	BB	697	G	N1-C2-N3	-7.04	119.68	123.90
35	BB	1509	A	C8-N9-C4	-7.04	102.98	105.80
1	AA	357	G	C4-C5-C6	7.04	123.02	118.80
1	AA	1327	C	C6-N1-C2	-7.04	117.48	120.30
1	AA	1359	C	C2-N1-C1'	7.04	126.54	118.80
1	AA	1461	G	C6-C5-N7	-7.04	126.18	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	AE	67	ARG	NE-CZ-NH1	7.04	123.82	120.30
35	BB	50	U	P-O3'-C3'	7.04	128.15	119.70
35	BB	69	C	C4'-C3'-C2'	-7.04	95.56	102.60
35	BB	262	A	C8-N9-C4	-7.04	102.98	105.80
35	BB	359	G	N1-C6-O6	7.04	124.12	119.90
35	BB	1697	G	C5-N7-C8	-7.04	100.78	104.30
35	BB	1880	U	C5-C4-O4	-7.04	121.68	125.90
35	BB	2507	C	O4'-C1'-N1	7.04	113.83	108.20
1	AA	139	A	C5-C6-N1	-7.04	114.18	117.70
1	AA	1217	C	C1'-O4'-C4'	-7.04	104.27	109.90
35	BB	402	A	N9-C4-C5	7.04	108.61	105.80
35	BB	597	G	C5-C6-O6	-7.04	124.38	128.60
35	BB	1212	G	O4'-C1'-N9	7.04	113.83	108.20
1	AA	122	G	C8-N9-C4	-7.04	103.59	106.40
1	AA	1211	U	C6-N1-C2	7.04	125.22	121.00
1	AA	1211	U	N1-C2-N3	-7.04	110.68	114.90
35	BB	341	C	C5-C6-N1	7.04	124.52	121.00
35	BB	510	C	C2-N1-C1'	7.04	126.54	118.80
35	BB	1200	C	N3-C4-N4	7.04	122.92	118.00
35	BB	1826	G	N1-C6-O6	7.04	124.12	119.90
35	BB	2750	A	C4-C5-N7	-7.04	107.18	110.70
35	BB	2803	G	N1-C6-O6	7.04	124.12	119.90
1	AA	183	C	O4'-C1'-N1	7.03	113.83	108.20
1	AA	1035	A	C5-C6-N1	-7.03	114.18	117.70
34	BA	64	G	C5-C6-O6	-7.03	124.38	128.60
35	BB	575	A	N1-C2-N3	-7.03	125.78	129.30
35	BB	785	G	C4-C5-N7	-7.03	107.99	110.80
35	BB	956	G	C5-C6-O6	-7.03	124.38	128.60
35	BB	1342	A	C5-C6-N1	-7.03	114.18	117.70
35	BB	1343	G	C6-C5-N7	-7.03	126.18	130.40
35	BB	1569	A	N1-C6-N6	7.03	122.82	118.60
35	BB	1733	G	N7-C8-N9	7.03	116.62	113.10
35	BB	2893	A	N9-C4-C5	7.03	108.61	105.80
38	BE	102	ARG	NE-CZ-NH1	-7.03	116.78	120.30
1	AA	47	C	N3-C2-O2	7.03	126.82	121.90
35	BB	2882	A	C2-N3-C4	-7.03	107.08	110.60
1	AA	975	A	C4-C5-C6	7.03	120.52	117.00
1	AA	1144	G	C8-N9-C4	-7.03	103.59	106.40
1	AA	1255	G	C5-C6-O6	-7.03	124.38	128.60
1	AA	1331	G	C5-C6-N1	-7.03	107.98	111.50
35	BB	1201	U	C3'-C2'-C1'	-7.03	95.88	101.50
35	BB	1841	U	O4'-C1'-N1	7.03	113.82	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2365	G	C6-C5-N7	-7.03	126.18	130.40
35	BB	2547	A	C4'-C3'-C2'	-7.03	95.57	102.60
1	AA	604	G	C5-N7-C8	-7.03	100.78	104.30
1	AA	942	G	C5-N7-C8	7.03	107.81	104.30
22	AV	67	G	C4-C5-C6	7.03	123.02	118.80
35	BB	1019	U	O4'-C1'-N1	7.03	113.82	108.20
35	BB	1166	G	C4-C5-N7	-7.03	107.99	110.80
1	AA	609	A	C5-C6-N6	-7.03	118.08	123.70
35	BB	75	G	C6-N1-C2	7.03	129.32	125.10
35	BB	729	G	C4-C5-C6	7.03	123.02	118.80
35	BB	1227	G	O4'-C1'-N9	7.03	113.82	108.20
35	BB	2833	U	C2-N1-C1'	7.03	126.13	117.70
1	AA	68	G	C6-N1-C2	-7.03	120.89	125.10
35	BB	238	C	N3-C4-N4	7.03	122.92	118.00
35	BB	822	G	O4'-C1'-N9	7.03	113.82	108.20
35	BB	1055	G	N1-C2-N3	-7.03	119.69	123.90
35	BB	1233	C	N3-C2-O2	7.03	126.82	121.90
35	BB	1397	U	O4'-C1'-N1	7.03	113.82	108.20
35	BB	1856	U	C5-C6-N1	7.03	126.21	122.70
35	BB	1910	G	N9-C4-C5	-7.03	102.59	105.40
35	BB	2052	A	C5-C6-N6	-7.03	118.08	123.70
35	BB	2512	C	O4'-C1'-N1	7.03	113.82	108.20
1	AA	730	G	O4'-C1'-N9	7.02	113.82	108.20
22	AV	1	C	N3-C4-N4	7.02	122.92	118.00
35	BB	525	U	N3-C2-O2	7.02	127.12	122.20
1	AA	225	C	O4'-C1'-N1	7.02	113.82	108.20
1	AA	484	G	C6-N1-C2	7.02	129.31	125.10
1	AA	826	C	C1'-O4'-C4'	7.02	115.52	109.90
1	AA	926	G	N3-C4-N9	-7.02	121.79	126.00
1	AA	977	A	N3-C4-C5	-7.02	121.88	126.80
1	AA	1306	A	N7-C8-N9	-7.02	110.29	113.80
35	BB	101	A	O4'-C1'-N9	7.02	113.82	108.20
35	BB	781	A	O4'-C1'-N9	7.02	113.82	108.20
35	BB	902	C	N3-C4-N4	7.02	122.92	118.00
35	BB	1033	U	O4'-C1'-N1	7.02	113.82	108.20
35	BB	1274	A	N7-C8-N9	-7.02	110.29	113.80
1	AA	149	A	N1-C6-N6	7.02	122.81	118.60
1	AA	481	G	C2-N3-C4	7.02	115.41	111.90
35	BB	401	A	N3-C4-C5	-7.02	121.89	126.80
35	BB	1152	C	N3-C4-N4	7.02	122.91	118.00
35	BB	2764	A	N3-C4-N9	7.02	133.02	127.40
35	BB	2814	A	C6-C5-N7	-7.02	127.39	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2247	A	C5-N7-C8	7.02	107.41	103.90
35	BB	2482	A	C4-C5-N7	-7.02	107.19	110.70
1	AA	1078	U	N1-C2-O2	7.02	127.71	122.80
1	AA	1215	G	N7-C8-N9	7.02	116.61	113.10
35	BB	386	G	N1-C6-O6	7.02	124.11	119.90
35	BB	1888	G	C4-C5-N7	-7.02	107.99	110.80
35	BB	2545	G	N1-C6-O6	7.02	124.11	119.90
50	BQ	91	ARG	NE-CZ-NH2	-7.02	116.79	120.30
1	AA	788	U	C5-C4-O4	-7.02	121.69	125.90
1	AA	842	U	C2-N3-C4	7.02	131.21	127.00
1	AA	1129	C	C6-N1-C2	-7.02	117.49	120.30
35	BB	1072	C	O4'-C1'-N1	7.02	113.81	108.20
35	BB	1970	A	N9-C4-C5	7.02	108.61	105.80
1	AA	398	U	N3-C4-C5	-7.01	110.39	114.60
1	AA	983	A	C5-C6-N6	-7.01	118.09	123.70
35	BB	223	A	C5-C6-N1	-7.01	114.19	117.70
35	BB	425	G	C5-C6-O6	-7.01	124.39	128.60
35	BB	1553	A	C5-C6-N1	-7.01	114.19	117.70
35	BB	1933	G	O4'-C1'-N9	7.01	113.81	108.20
35	BB	2558	C	O4'-C1'-N1	7.01	113.81	108.20
1	AA	177	G	C5-C6-O6	-7.01	124.39	128.60
1	AA	513	C	C5-C4-N4	-7.01	115.29	120.20
1	AA	1217	C	C6-N1-C2	7.01	123.11	120.30
1	AA	1473	G	C6-N1-C2	-7.01	120.89	125.10
35	BB	834	G	N1-C6-O6	7.01	124.11	119.90
35	BB	1699	G	C5-C6-O6	-7.01	124.39	128.60
1	AA	1279	G	C4-C5-N7	7.01	113.60	110.80
1	AA	1331	G	C6-C5-N7	-7.01	126.19	130.40
29	B4	5	ARG	NE-CZ-NH2	-7.01	116.79	120.30
35	BB	826	U	N3-C4-C5	-7.01	110.39	114.60
35	BB	1071	G	N1-C2-N3	-7.01	119.69	123.90
35	BB	1163	G	N1-C2-N3	-7.01	119.69	123.90
35	BB	1874	C	P-O5'-C5'	7.01	132.12	120.90
35	BB	1955	U	O4'-C1'-N1	7.01	113.81	108.20
35	BB	2132	U	C3'-C2'-C1'	-7.01	95.89	101.50
35	BB	2157	G	N9-C4-C5	-7.01	102.59	105.40
35	BB	2270	A	C2-N3-C4	-7.01	107.09	110.60
35	BB	2642	G	C8-N9-C1'	7.01	136.11	127.00
54	BU	72	PHE	CB-CG-CD2	-7.01	115.89	120.80
1	AA	562	U	C5'-C4'-C3'	7.01	127.21	116.00
1	AA	1047	G	N3-C2-N2	7.01	124.81	119.90
1	AA	1206	G	N9-C4-C5	-7.01	102.60	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	355	U	C5-C6-N1	7.01	126.20	122.70
35	BB	1115	G	O4'-C1'-N9	7.01	113.81	108.20
35	BB	2738	A	C6-C5-N7	-7.01	127.39	132.30
43	BJ	130	HIS	CA-CB-CG	-7.01	101.68	113.60
1	AA	507	C	O4'-C1'-N1	7.01	113.81	108.20
1	AA	1143	G	N3-C2-N2	7.01	124.81	119.90
35	BB	288	U	N3-C2-O2	7.01	127.11	122.20
35	BB	379	G	C8-N9-C4	-7.01	103.60	106.40
35	BB	1248	G	C8-N9-C4	7.01	109.20	106.40
35	BB	1913	A	N1-C2-N3	7.01	132.80	129.30
1	AA	354	G	N1-C2-N3	-7.01	119.70	123.90
35	BB	364	C	N1-C2-O2	7.01	123.10	118.90
35	BB	869	G	C5-C6-O6	-7.01	124.40	128.60
35	BB	1131	G	C4-C5-C6	7.01	123.00	118.80
35	BB	1212	G	C5-C6-O6	-7.01	124.40	128.60
1	AA	1534	A	N1-C6-N6	7.00	122.80	118.60
1	AA	235	C	C5-C6-N1	7.00	124.50	121.00
1	AA	725	G	N1-C2-N3	-7.00	119.70	123.90
1	AA	962	C	O4'-C1'-N1	7.00	113.80	108.20
1	AA	1070	U	N1-C2-O2	-7.00	117.90	122.80
34	BA	41	G	N9-C4-C5	7.00	108.20	105.40
35	BB	125	A	C5-C6-N1	-7.00	114.20	117.70
35	BB	2792	A	C6-C5-N7	-7.00	127.40	132.30
35	BB	2797	U	C5-C6-N1	7.00	126.20	122.70
35	BB	2810	A	N1-C6-N6	7.00	122.80	118.60
36	BC	160	TYR	CB-CG-CD1	-7.00	116.80	121.00
1	AA	466	A	C5-N7-C8	7.00	107.40	103.90
35	BB	240	C	N3-C4-N4	7.00	122.90	118.00
35	BB	607	U	N1-C2-N3	7.00	119.10	114.90
35	BB	729	G	O4'-C1'-N9	7.00	113.80	108.20
35	BB	741	U	P-O3'-C3'	-7.00	111.30	119.70
35	BB	1846	G	N3-C2-N2	7.00	124.80	119.90
35	BB	2643	G	C5-C6-N1	7.00	115.00	111.50
35	BB	1077	A	C6-N1-C2	7.00	122.80	118.60
35	BB	2541	A	N1-C6-N6	7.00	122.80	118.60
1	AA	1112	C	N1-C2-O2	-7.00	114.70	118.90
2	AB	107	ARG	NE-CZ-NH2	7.00	123.80	120.30
35	BB	638	G	N9-C4-C5	7.00	108.20	105.40
35	BB	2312	U	N3-C4-C5	-7.00	110.40	114.60
35	BB	2369	A	C5-C6-N6	-7.00	118.10	123.70
35	BB	2628	C	C2-N3-C4	7.00	123.40	119.90
35	BB	2756	U	C5-C4-O4	-7.00	121.70	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	49	ARG	NE-CZ-NH2	7.00	123.80	120.30
38	BE	69	ARG	NE-CZ-NH2	-7.00	116.80	120.30
3	AC	168	ARG	NE-CZ-NH1	7.00	123.80	120.30
23	AX	16	C	C6-N1-C1'	-7.00	112.41	120.80
35	BB	88	G	C8-N9-C4	-7.00	103.60	106.40
35	BB	180	G	C4-C5-C6	7.00	123.00	118.80
35	BB	194	G	N1-C2-N3	-7.00	119.70	123.90
35	BB	1830	C	N1-C2-N3	-7.00	114.30	119.20
35	BB	2050	C	C4-C5-C6	7.00	120.90	117.40
35	BB	2247	A	C5-C6-N6	-7.00	118.10	123.70
35	BB	1112	G	O4'-C4'-C3'	-7.00	97.00	104.00
35	BB	1348	C	N3-C4-C5	-7.00	119.10	121.90
35	BB	1471	G	N3-C4-C5	-7.00	125.10	128.60
35	BB	2539	C	C6-N1-C2	7.00	123.10	120.30
1	AA	720	C	N1-C2-N3	6.99	124.09	119.20
1	AA	1128	C	C2-N1-C1'	6.99	126.49	118.80
35	BB	471	A	C2-N3-C4	-6.99	107.10	110.60
35	BB	1070	A	C6-C5-N7	-6.99	127.40	132.30
35	BB	1197	G	N3-C2-N2	6.99	124.80	119.90
35	BB	1428	C	N1-C2-O2	6.99	123.10	118.90
1	AA	1008	U	C4-C5-C6	-6.99	115.50	119.70
35	BB	447	A	N1-C2-N3	6.99	132.80	129.30
35	BB	1239	G	N3-C4-C5	-6.99	125.10	128.60
35	BB	1499	C	O4'-C1'-N1	6.99	113.79	108.20
35	BB	2754	U	C5-C4-O4	-6.99	121.70	125.90
1	AA	118	U	N3-C2-O2	6.99	127.09	122.20
1	AA	550	G	N7-C8-N9	6.99	116.59	113.10
1	AA	1002	G	C4-C5-C6	6.99	122.99	118.80
1	AA	1210	C	C6-N1-C2	-6.99	117.50	120.30
35	BB	723	C	N3-C4-C5	-6.99	119.10	121.90
35	BB	1980	G	N3-C4-C5	-6.99	125.11	128.60
35	BB	2097	A	C5-C6-N6	-6.99	118.11	123.70
35	BB	2136	G	P-O5'-C5'	6.99	132.09	120.90
35	BB	2345	G	C5-C6-O6	-6.99	124.41	128.60
35	BB	2482	A	C6-N1-C2	-6.99	114.41	118.60
1	AA	707	U	N3-C4-C5	-6.99	110.41	114.60
35	BB	156	A	O4'-C1'-N9	6.99	113.79	108.20
35	BB	1771	C	O4'-C1'-C2'	6.99	113.89	107.60
35	BB	2895	G	C4-C5-C6	6.99	122.99	118.80
35	BB	727	A	C4-C5-C6	6.99	120.49	117.00
35	BB	2679	A	C4-C5-C6	6.99	120.49	117.00
1	AA	76	G	N7-C8-N9	-6.99	109.61	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	802	A	O4'-C1'-N9	6.99	113.79	108.20
1	AA	912	C	N3-C4-C5	-6.99	119.11	121.90
35	BB	2053	G	N3-C4-C5	6.99	132.09	128.60
1	AA	874	G	N9-C4-C5	6.98	108.19	105.40
1	AA	109	A	C4-C5-N7	6.98	114.19	110.70
1	AA	237	G	N3-C2-N2	6.98	124.79	119.90
1	AA	1143	G	C6-C5-N7	-6.98	126.21	130.40
28	B3	43	THR	CA-CB-CG2	-6.98	102.62	112.40
35	BB	298	G	C8-N9-C4	6.98	109.19	106.40
35	BB	442	G	C4-C5-N7	-6.98	108.01	110.80
35	BB	620	G	P-O5'-C5'	-6.98	109.73	120.90
35	BB	1767	G	O4'-C1'-N9	6.98	113.79	108.20
35	BB	2175	C	C5'-C4'-O4'	6.98	117.48	109.10
35	BB	2490	G	OP2-P-O3'	6.98	120.56	105.20
35	BB	2759	G	C5-C6-N1	-6.98	108.01	111.50
1	AA	703	G	C5-C6-O6	-6.98	124.41	128.60
13	AM	112	ARG	NE-CZ-NH2	-6.98	116.81	120.30
35	BB	166	U	C2-N3-C4	6.98	131.19	127.00
35	BB	1215	G	N9-C4-C5	6.98	108.19	105.40
35	BB	2477	U	C5-C6-N1	-6.98	119.21	122.70
55	BW	17	SER	N-CA-CB	6.98	120.97	110.50
1	AA	450	G	N9-C4-C5	6.98	108.19	105.40
1	AA	642	A	C5'-C4'-O4'	6.98	117.47	109.10
1	AA	956	U	P-O3'-C3'	-6.98	111.33	119.70
1	AA	1491	G	C6-N1-C2	6.98	129.29	125.10
4	AD	28	ASP	CB-CG-OD2	6.98	124.58	118.30
35	BB	555	G	N9-C4-C5	-6.98	102.61	105.40
1	AA	888	G	C6-C5-N7	-6.98	126.21	130.40
34	BA	23	G	N3-C2-N2	6.98	124.78	119.90
34	BA	94	A	C1'-O4'-C4'	6.98	115.48	109.90
35	BB	329	G	C6-N1-C2	6.98	129.29	125.10
35	BB	960	A	N7-C8-N9	6.98	117.29	113.80
35	BB	1128	G	C4'-C3'-C2'	-6.98	95.62	102.60
35	BB	1437	C	N3-C4-C5	-6.98	119.11	121.90
35	BB	1523	U	N3-C2-O2	-6.98	117.31	122.20
35	BB	1751	U	P-O3'-C3'	-6.98	111.33	119.70
35	BB	2027	G	C4-C5-N7	6.98	113.59	110.80
35	BB	2077	A	C5-C6-N1	-6.98	114.21	117.70
35	BB	2154	A	C6-N1-C2	-6.98	114.41	118.60
35	BB	2342	C	C4'-C3'-C2'	-6.98	95.62	102.60
31	B6	34	ARG	NE-CZ-NH1	6.98	123.79	120.30
35	BB	727	A	C6-C5-N7	-6.98	127.42	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1027	A	C6-C5-N7	-6.98	127.42	132.30
35	BB	1435	G	N3-C2-N2	6.98	124.78	119.90
35	BB	2432	A	C4-C5-N7	-6.98	107.21	110.70
33	B8	20	ASP	CB-CG-OD1	6.97	124.58	118.30
35	BB	335	C	N3-C4-N4	6.97	122.88	118.00
35	BB	432	A	C2-N3-C4	-6.97	107.11	110.60
35	BB	523	C	N1-C2-N3	-6.97	114.32	119.20
35	BB	834	G	C4-C5-N7	6.97	113.59	110.80
35	BB	1055	G	C5'-C4'-O4'	6.97	117.47	109.10
35	BB	1407	G	C8-N9-C4	-6.97	103.61	106.40
35	BB	2040	G	C4-C5-N7	6.97	113.59	110.80
35	BB	2592	G	P-O5'-C5'	6.97	132.06	120.90
35	BB	2701	U	N1-C2-N3	6.97	119.08	114.90
1	AA	706	A	C4-C5-C6	6.97	120.49	117.00
1	AA	1165	U	C5-C4-O4	-6.97	121.72	125.90
1	AA	1421	G	N1-C2-N3	-6.97	119.72	123.90
3	AC	202	PHE	CB-CG-CD1	6.97	125.68	120.80
35	BB	490	C	N3-C4-C5	-6.97	119.11	121.90
35	BB	808	G	C8-N9-C4	-6.97	103.61	106.40
35	BB	2148	G	O4'-C1'-N9	6.97	113.78	108.20
35	BB	2454	G	C5-C6-N1	-6.97	108.01	111.50
35	BB	2550	G	O4'-C1'-N9	6.97	113.78	108.20
35	BB	2609	U	O4'-C1'-N1	6.97	113.78	108.20
35	BB	2615	U	C5-C6-N1	6.97	126.19	122.70
1	AA	240	G	C4'-C3'-C2'	-6.97	95.63	102.60
1	AA	382	A	C4-C5-N7	-6.97	107.22	110.70
1	AA	864	A	C4-C5-N7	-6.97	107.21	110.70
35	BB	353	C	O4'-C1'-N1	6.97	113.78	108.20
35	BB	2425	A	N9-C4-C5	6.97	108.59	105.80
1	AA	675	A	O4'-C1'-N9	6.97	113.78	108.20
1	AA	1411	C	O4'-C1'-N1	6.97	113.78	108.20
34	BA	78	A	C4-C5-N7	-6.97	107.22	110.70
35	BB	823	C	C2-N3-C4	-6.97	116.42	119.90
35	BB	1556	C	C6-N1-C2	-6.97	117.51	120.30
35	BB	1753	G	N9-C4-C5	6.97	108.19	105.40
35	BB	2269	G	C2-N3-C4	-6.97	108.42	111.90
35	BB	2767	C	C5-C4-N4	-6.97	115.32	120.20
1	AA	256	U	O4'-C1'-N1	6.97	113.78	108.20
22	AV	67	G	C6-C5-N7	-6.97	126.22	130.40
35	BB	692	C	N3-C4-N4	6.97	122.88	118.00
35	BB	761	A	N1-C6-N6	6.97	122.78	118.60
35	BB	1964	G	P-O3'-C3'	6.97	128.06	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	515	G	C5-C6-O6	-6.97	124.42	128.60
1	AA	739	C	O4'-C1'-N1	6.97	113.77	108.20
1	AA	947	G	C8-N9-C4	-6.97	103.61	106.40
35	BB	876	C	C5-C4-N4	-6.97	115.32	120.20
35	BB	1297	C	N1-C2-O2	-6.97	114.72	118.90
35	BB	1552	A	C8-N9-C4	6.97	108.59	105.80
35	BB	1983	G	N1-C2-N3	-6.97	119.72	123.90
35	BB	2029	G	C5-C6-N1	6.97	114.98	111.50
35	BB	2094	A	N3-C4-C5	-6.97	121.92	126.80
35	BB	2247	A	N1-C2-N3	6.97	132.78	129.30
35	BB	2475	C	C2-N3-C4	6.97	123.38	119.90
35	BB	2747	G	N1-C2-N3	-6.97	119.72	123.90
35	BB	2770	G	N1-C2-N2	-6.97	109.93	116.20
1	AA	1205	U	C5-C4-O4	-6.96	121.72	125.90
1	AA	1258	G	N3-C2-N2	6.96	124.78	119.90
35	BB	39	G	C2-N3-C4	6.96	115.38	111.90
35	BB	695	G	N9-C4-C5	6.96	108.19	105.40
35	BB	1599	U	O4'-C1'-N1	6.96	113.77	108.20
35	BB	2886	A	C5-C6-N6	-6.96	118.13	123.70
1	AA	510	A	C4-C5-C6	6.96	120.48	117.00
1	AA	676	A	N3-C4-N9	6.96	132.97	127.40
1	AA	779	C	C2-N1-C1'	6.96	126.46	118.80
35	BB	2062	A	C3'-C2'-C1'	6.96	107.07	101.50
35	BB	2333	A	O4'-C1'-N9	6.96	113.77	108.20
1	AA	627	G	C6-N1-C2	6.96	129.28	125.10
1	AA	1332	A	C5-C6-N1	-6.96	114.22	117.70
8	AH	70	VAL	CA-CB-CG1	-6.96	100.46	110.90
34	BA	56	G	C6-N1-C2	-6.96	120.92	125.10
35	BB	16	C	C6-N1-C2	6.96	123.08	120.30
35	BB	378	C	C5-C4-N4	-6.96	115.33	120.20
35	BB	654	A	C5-N7-C8	6.96	107.38	103.90
35	BB	2594	C	P-O3'-C3'	-6.96	111.35	119.70
35	BB	2856	A	N7-C8-N9	-6.96	110.32	113.80
1	AA	805	C	C4-C5-C6	-6.96	113.92	117.40
1	AA	1259	C	C5-C4-N4	-6.96	115.33	120.20
35	BB	342	A	N1-C2-N3	6.96	132.78	129.30
1	AA	331	G	C8-N9-C4	-6.96	103.62	106.40
34	BA	59	A	C5-C6-N1	-6.96	114.22	117.70
35	BB	333	G	C6-N1-C2	6.96	129.28	125.10
35	BB	914	G	N7-C8-N9	6.96	116.58	113.10
35	BB	1075	C	N3-C4-N4	6.96	122.87	118.00
35	BB	1253	A	C2-N3-C4	-6.96	107.12	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	1642	G	C4-C5-C6	6.96	122.97	118.80
35	BB	1790	C	C5-C6-N1	6.96	124.48	121.00
35	BB	2238	G	O4'-C1'-N9	6.96	113.77	108.20
35	BB	2798	U	N3-C4-O4	6.96	124.27	119.40
1	AA	713	G	N3-C4-C5	-6.96	125.12	128.60
34	BA	51	G	C4-C5-N7	6.96	113.58	110.80
35	BB	968	C	O4'-C1'-N1	6.96	113.77	108.20
35	BB	1153	C	C2-N3-C4	-6.96	116.42	119.90
35	BB	1513	U	P-O3'-C3'	-6.96	111.35	119.70
35	BB	1797	G	C8-N9-C1'	6.96	136.04	127.00
35	BB	2434	A	N9-C4-C5	6.96	108.58	105.80
35	BB	1037	G	P-O3'-C3'	-6.96	111.36	119.70
35	BB	1063	G	O4'-C1'-N9	6.96	113.76	108.20
35	BB	1854	A	N1-C2-N3	-6.96	125.82	129.30
35	BB	2114	A	O5'-P-OP1	-6.96	99.44	105.70
1	AA	34	C	N3-C2-O2	6.95	126.77	121.90
1	AA	660	C	N1-C2-O2	6.95	123.07	118.90
1	AA	1090	U	O4'-C1'-N1	6.95	113.76	108.20
1	AA	1152	A	C5-C6-N1	-6.95	114.22	117.70
22	AV	7	G	OP1-P-O3'	6.95	120.50	105.20
35	BB	170	U	N3-C2-O2	6.95	127.07	122.20
35	BB	308	G	C3'-C2'-C1'	6.95	107.06	101.50
35	BB	648	G	N1-C2-N3	-6.95	119.73	123.90
35	BB	682	G	C4-C5-C6	6.95	122.97	118.80
35	BB	962	G	N1-C6-O6	6.95	124.07	119.90
35	BB	1074	G	C5-N7-C8	6.95	107.78	104.30
35	BB	1479	G	P-O5'-C5'	6.95	132.03	120.90
35	BB	1592	C	N3-C4-C5	-6.95	119.12	121.90
35	BB	1826	G	P-O3'-C3'	-6.95	111.36	119.70
35	BB	2252	G	C5-N7-C8	6.95	107.78	104.30
35	BB	2658	C	C6-N1-C2	6.95	123.08	120.30
1	AA	330	C	C6-N1-C2	6.95	123.08	120.30
1	AA	666	G	C5-C6-O6	-6.95	124.43	128.60
1	AA	1148	U	N3-C2-O2	6.95	127.07	122.20
1	AA	141	G	N9-C4-C5	6.95	108.18	105.40
1	AA	303	A	N9-C4-C5	-6.95	103.02	105.80
1	AA	1170	A	C8-N9-C4	-6.95	103.02	105.80
34	BA	96	G	C8-N9-C4	-6.95	103.62	106.40
43	BJ	89	PHE	CB-CG-CD1	-6.95	115.94	120.80
1	AA	408	A	C5'-C4'-C3'	-6.95	104.88	116.00
1	AA	548	G	O4'-C4'-C3'	-6.95	97.05	104.00
1	AA	1405	G	N1-C2-N3	-6.95	119.73	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1528	U	C4-C5-C6	6.95	123.87	119.70
5	AE	67	ARG	NE-CZ-NH2	-6.95	116.83	120.30
22	AV	50	G	C5-C6-O6	-6.95	124.43	128.60
34	BA	28	C	C4'-C3'-C2'	-6.95	95.65	102.60
35	BB	1036	G	C5-C6-O6	-6.95	124.43	128.60
35	BB	1181	U	P-O3'-C3'	-6.95	111.36	119.70
35	BB	2535	G	C5-N7-C8	6.95	107.78	104.30
35	BB	2744	G	C4-C5-C6	6.95	122.97	118.80
35	BB	2887	A	C6-N1-C2	-6.95	114.43	118.60
1	AA	721	G	O4'-C1'-N9	6.95	113.76	108.20
34	BA	108	A	C5-C6-N1	-6.95	114.23	117.70
35	BB	862	G	N3-C4-C5	6.95	132.07	128.60
35	BB	2241	A	C5-C6-N6	-6.95	118.14	123.70
36	BC	38	LYS	N-CA-CB	6.95	123.11	110.60
1	AA	406	G	C8-N9-C4	-6.95	103.62	106.40
1	AA	731	G	C4-C5-C6	6.95	122.97	118.80
22	AV	8	U	O4'-C1'-N1	6.95	113.76	108.20
35	BB	380	G	C4-C5-C6	6.95	122.97	118.80
35	BB	572	A	C1'-O4'-C4'	6.95	115.46	109.90
35	BB	1099	G	C5'-C4'-C3'	-6.95	104.89	116.00
35	BB	2185	U	C3'-C2'-C1'	-6.95	95.94	101.50
1	AA	940	C	C4-C5-C6	6.94	120.87	117.40
1	AA	1297	G	N1-C6-O6	6.94	124.07	119.90
1	AA	654	G	C6-C5-N7	-6.94	126.23	130.40
22	AV	42	G	C5-C6-O6	-6.94	124.44	128.60
34	BA	73	A	C8-N9-C4	-6.94	103.02	105.80
35	BB	313	G	N3-C4-C5	-6.94	125.13	128.60
35	BB	385	C	C5-C4-N4	-6.94	115.34	120.20
35	BB	1416	G	O4'-C1'-C2'	-6.94	98.86	105.80
35	BB	1700	A	O4'-C1'-N9	6.94	113.75	108.20
35	BB	2149	U	C2-N3-C4	-6.94	122.83	127.00
35	BB	2556	C	O5'-P-OP1	6.94	119.03	110.70
1	AA	47	C	C4'-C3'-C2'	-6.94	95.66	102.60
35	BB	2245	U	C4-C5-C6	-6.94	115.54	119.70
35	BB	2254	C	C6-N1-C2	6.94	123.08	120.30
35	BB	2485	G	C5-C6-O6	-6.94	124.44	128.60
35	BB	2816	G	N1-C6-O6	6.94	124.06	119.90
17	AQ	49	ASN	N-CA-CB	6.94	123.09	110.60
35	BB	11	C	C5-C4-N4	-6.94	115.34	120.20
35	BB	352	A	O4'-C1'-N9	6.94	113.75	108.20
35	BB	776	G	C6-C5-N7	6.94	134.56	130.40
35	BB	1217	U	C6-N1-C2	6.94	125.16	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1023	U	O4'-C1'-N1	6.94	113.75	108.20
35	BB	44	A	N9-C4-C5	-6.94	103.03	105.80
35	BB	532	A	C5-C6-N1	-6.94	114.23	117.70
35	BB	1127	A	C5-C6-N1	-6.94	114.23	117.70
35	BB	1204	A	O4'-C1'-N9	6.94	113.75	108.20
35	BB	1324	G	C5-C6-O6	-6.94	124.44	128.60
35	BB	1439	A	C5-C6-N6	6.94	129.25	123.70
35	BB	1520	U	C5-C6-N1	6.94	126.17	122.70
1	AA	921	U	O4'-C1'-N1	6.94	113.75	108.20
1	AA	1533	C	C6-N1-C1'	-6.94	112.48	120.80
1	AA	334	C	C6-N1-C2	-6.93	117.53	120.30
34	BA	75	G	N3-C2-N2	6.93	124.75	119.90
35	BB	450	G	P-O3'-C3'	-6.93	111.38	119.70
35	BB	1156	A	N1-C6-N6	6.93	122.76	118.60
35	BB	1420	A	P-O5'-C5'	-6.93	109.81	120.90
35	BB	1896	G	C2-N3-C4	6.93	115.37	111.90
35	BB	2519	U	N3-C2-O2	6.93	127.05	122.20
35	BB	2572	A	C4-C5-C6	6.93	120.47	117.00
47	BN	103	ARG	NE-CZ-NH1	6.93	123.77	120.30
1	AA	310	G	C4-C5-C6	6.93	122.96	118.80
1	AA	511	C	O4'-C1'-N1	6.93	113.75	108.20
1	AA	578	C	C6-N1-C2	-6.93	117.53	120.30
1	AA	639	G	P-O3'-C3'	-6.93	111.38	119.70
34	BA	104	A	C4'-C3'-C2'	-6.93	95.67	102.60
35	BB	782	A	N1-C6-N6	6.93	122.76	118.60
35	BB	1061	U	C6-N1-C2	-6.93	116.84	121.00
35	BB	2186	G	N3-C4-C5	6.93	132.07	128.60
35	BB	2661	G	C5-C6-O6	-6.93	124.44	128.60
35	BB	2730	C	N3-C4-N4	6.93	122.85	118.00
48	BO	72	ALA	N-CA-CB	6.93	119.81	110.10
1	AA	887	G	C6-C5-N7	-6.93	126.24	130.40
1	AA	888	G	C2-N3-C4	-6.93	108.44	111.90
1	AA	1400	C	O4'-C1'-N1	6.93	113.75	108.20
1	AA	1412	C	C5-C4-N4	-6.93	115.35	120.20
35	BB	542	C	O4'-C1'-N1	6.93	113.75	108.20
35	BB	2130	U	N3-C4-O4	6.93	124.25	119.40
35	BB	2229	U	C5-C4-O4	-6.93	121.74	125.90
1	AA	441	A	O4'-C1'-N9	6.93	113.74	108.20
35	BB	636	G	N3-C2-N2	6.93	124.75	119.90
35	BB	756	A	N1-C2-N3	-6.93	125.83	129.30
35	BB	1380	G	C5-N7-C8	-6.93	100.84	104.30
35	BB	2766	A	N3-C4-N9	6.93	132.94	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	232	G	N1-C2-N3	-6.93	119.74	123.90
1	AA	773	G	N1-C2-N3	-6.93	119.74	123.90
1	AA	788	U	N3-C4-O4	6.93	124.25	119.40
35	BB	294	A	N9-C4-C5	6.93	108.57	105.80
35	BB	339	U	C6-N1-C2	-6.93	116.84	121.00
35	BB	474	G	N1-C6-O6	6.93	124.06	119.90
35	BB	1323	C	C2-N3-C4	6.93	123.36	119.90
35	BB	1383	A	N1-C2-N3	6.93	132.76	129.30
35	BB	1479	G	C5-N7-C8	6.93	107.76	104.30
35	BB	2160	C	N3-C4-C5	-6.93	119.13	121.90
35	BB	2757	A	N1-C2-N3	-6.93	125.84	129.30
1	AA	408	A	C6-C5-N7	-6.92	127.45	132.30
1	AA	682	G	O4'-C1'-N9	6.92	113.74	108.20
35	BB	561	G	N3-C4-N9	-6.92	121.84	126.00
35	BB	1093	G	N3-C4-C5	-6.92	125.14	128.60
35	BB	1129	A	C6-N1-C2	6.92	122.75	118.60
35	BB	1997	C	C5-C4-N4	-6.92	115.35	120.20
1	AA	299	G	C4-C5-N7	6.92	113.57	110.80
1	AA	310	G	C5-C6-N1	-6.92	108.04	111.50
1	AA	378	G	C2-N3-C4	6.92	115.36	111.90
35	BB	2450	A	C8-N9-C4	6.92	108.57	105.80
35	BB	2560	A	O4'-C1'-N9	6.92	113.74	108.20
1	AA	502	A	N9-C1'-C2'	-6.92	104.39	112.00
1	AA	505	G	N1-C2-N3	-6.92	119.75	123.90
1	AA	1369	C	C6-N1-C2	6.92	123.07	120.30
22	AV	2	G	C6-C5-N7	-6.92	126.25	130.40
35	BB	294	A	N7-C8-N9	-6.92	110.34	113.80
35	BB	759	G	C2-N3-C4	6.92	115.36	111.90
35	BB	1459	G	O4'-C1'-N9	6.92	113.74	108.20
35	BB	1463	C	N3-C4-C5	-6.92	119.13	121.90
35	BB	2283	C	N3-C4-C5	-6.92	119.13	121.90
35	BB	2302	U	C5-C4-O4	-6.92	121.75	125.90
35	BB	2577	A	C6-C5-N7	-6.92	127.45	132.30
35	BB	2883	A	C5-N7-C8	6.92	107.36	103.90
1	AA	316	C	O4'-C1'-N1	6.92	113.74	108.20
35	BB	521	U	C6-N1-C2	-6.92	116.85	121.00
35	BB	1057	A	C4-C5-C6	6.92	120.46	117.00
35	BB	1608	A	C8-N9-C4	6.92	108.57	105.80
35	BB	1675	C	C5-C4-N4	-6.92	115.36	120.20
1	AA	97	G	C8-N9-C4	-6.92	103.63	106.40
1	AA	328	C	C5-C6-N1	6.92	124.46	121.00
1	AA	447	G	N9-C4-C5	6.92	108.17	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	716	A	C8-N9-C4	-6.92	103.03	105.80
1	AA	1390	U	C5-C4-O4	6.92	130.05	125.90
7	AG	97	ALA	N-CA-CB	6.92	119.78	110.10
35	BB	276	U	N1-C2-O2	-6.92	117.96	122.80
35	BB	338	G	C3'-C2'-C1'	6.92	107.03	101.50
35	BB	428	A	C6-C5-N7	-6.92	127.46	132.30
35	BB	455	C	N3-C4-N4	6.92	122.84	118.00
35	BB	1287	A	C5-N7-C8	6.92	107.36	103.90
35	BB	1373	A	C6-N1-C2	-6.92	114.45	118.60
35	BB	2273	A	C5'-C4'-C3'	-6.92	104.93	116.00
35	BB	2341	G	C6-C5-N7	-6.92	126.25	130.40
35	BB	2472	G	N7-C8-N9	6.92	116.56	113.10
35	BB	2760	C	P-O3'-C3'	-6.92	111.40	119.70
35	BB	2886	A	C8-N9-C4	-6.92	103.03	105.80
1	AA	771	G	C8-N9-C4	6.92	109.17	106.40
1	AA	1304	G	C4-C5-N7	6.92	113.57	110.80
1	AA	1379	G	C8-N9-C4	-6.92	103.63	106.40
35	BB	709	U	P-O5'-C5'	6.92	131.97	120.90
35	BB	789	A	OP1-P-OP2	-6.92	109.22	119.60
35	BB	1396	U	N1-C2-N3	6.92	119.05	114.90
35	BB	1957	C	C6-N1-C2	-6.92	117.53	120.30
35	BB	2350	C	C2-N3-C4	6.92	123.36	119.90
35	BB	2393	U	O4'-C4'-C3'	-6.92	97.08	104.00
35	BB	2593	U	O4'-C1'-N1	6.92	113.73	108.20
1	AA	1496	C	O4'-C1'-N1	6.92	113.73	108.20
35	BB	1327	A	C5-C6-N1	-6.92	114.24	117.70
1	AA	46	G	C5-C6-O6	-6.91	124.45	128.60
1	AA	1436	U	C5-C6-N1	6.91	126.16	122.70
35	BB	1317	G	C5-C6-O6	-6.91	124.45	128.60
35	BB	1415	U	N3-C4-O4	6.91	124.24	119.40
35	BB	2557	G	C4-C5-N7	-6.91	108.03	110.80
35	BB	2644	G	N3-C4-N9	6.91	130.15	126.00
1	AA	438	U	C2-N3-C4	-6.91	122.85	127.00
1	AA	1446	A	C5-C6-N6	-6.91	118.17	123.70
35	BB	759	G	N3-C4-N9	6.91	130.15	126.00
35	BB	1092	C	N1-C2-O2	6.91	123.05	118.90
35	BB	1346	G	C5-C6-O6	-6.91	124.45	128.60
35	BB	1795	C	C5-C6-N1	6.91	124.46	121.00
1	AA	942	G	N9-C4-C5	-6.91	102.64	105.40
1	AA	1061	G	C6-C5-N7	-6.91	126.25	130.40
1	AA	1463	U	N3-C4-C5	-6.91	110.45	114.60
35	BB	451	U	N3-C2-O2	-6.91	117.36	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1079	C	C5-C4-N4	-6.91	115.36	120.20
35	BB	1090	A	O4'-C1'-N9	6.91	113.73	108.20
35	BB	1328	A	C2'-C3'-O3'	6.91	124.76	113.70
35	BB	1785	A	C5-C6-N6	-6.91	118.17	123.70
35	BB	2541	A	C8-N9-C4	-6.91	103.03	105.80
1	AA	255	G	N1-C2-N3	-6.91	119.75	123.90
35	BB	1025	G	N9-C4-C5	-6.91	102.64	105.40
35	BB	1368	G	C5-N7-C8	6.91	107.75	104.30
35	BB	1482	G	C5-C6-O6	-6.91	124.45	128.60
1	AA	530	G	C5-C6-N1	-6.91	108.05	111.50
1	AA	888	G	C8-N9-C4	-6.91	103.64	106.40
35	BB	1086	A	N1-C6-N6	6.91	122.74	118.60
35	BB	2883	A	C5-C6-N1	-6.91	114.25	117.70
1	AA	261	U	N3-C4-O4	6.91	124.23	119.40
1	AA	907	A	O4'-C1'-N9	6.91	113.72	108.20
1	AA	1528	U	O4'-C1'-N1	6.91	113.72	108.20
22	AV	60	U	O4'-C1'-N1	6.91	113.72	108.20
35	BB	370	G	N1-C6-O6	6.91	124.04	119.90
35	BB	1047	G	C2-N3-C4	6.91	115.35	111.90
35	BB	1131	G	C6-C5-N7	-6.91	126.26	130.40
35	BB	1287	A	N9-C4-C5	6.91	108.56	105.80
35	BB	1594	U	N1-C2-N3	6.91	119.04	114.90
35	BB	1830	C	N1-C2-O2	6.91	123.04	118.90
35	BB	2666	C	O4'-C1'-N1	6.91	113.72	108.20
35	BB	761	A	N7-C8-N9	6.90	117.25	113.80
35	BB	2055	C	C2-N3-C4	-6.90	116.45	119.90
35	BB	2312	U	N3-C4-O4	6.90	124.23	119.40
1	AA	167	A	O4'-C1'-N9	6.90	113.72	108.20
1	AA	579	A	N1-C2-N3	6.90	132.75	129.30
35	BB	1072	C	P-O3'-C3'	-6.90	111.42	119.70
35	BB	1305	C	C5-C4-N4	-6.90	115.37	120.20
35	BB	2359	C	C5-C4-N4	-6.90	115.37	120.20
35	BB	2370	G	C5-C6-O6	-6.90	124.46	128.60
1	AA	299	G	N1-C2-N2	-6.90	109.99	116.20
8	AH	101	ALA	N-CA-CB	6.90	119.76	110.10
35	BB	65	U	N1-C2-O2	-6.90	117.97	122.80
35	BB	326	G	O4'-C1'-N9	6.90	113.72	108.20
35	BB	353	C	N3-C4-N4	6.90	122.83	118.00
35	BB	723	C	O4'-C1'-N1	6.90	113.72	108.20
35	BB	970	U	O4'-C1'-N1	6.90	113.72	108.20
35	BB	2495	G	N3-C2-N2	6.90	124.73	119.90
35	BB	2841	C	C5-C4-N4	-6.90	115.37	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	BD	61	THR	CA-CB-CG2	-6.90	102.74	112.40
1	AA	9	G	P-O3'-C3'	-6.90	111.42	119.70
1	AA	705	G	C4-C5-N7	6.90	113.56	110.80
1	AA	1170	A	C5-N7-C8	6.90	107.35	103.90
1	AA	1329	A	C5-N7-C8	6.90	107.35	103.90
35	BB	1697	G	C6-C5-N7	-6.90	126.26	130.40
35	BB	2419	U	N3-C4-C5	-6.90	110.46	114.60
1	AA	400	C	C5-C6-N1	6.90	124.45	121.00
1	AA	826	C	N3-C4-N4	6.90	122.83	118.00
35	BB	432	A	C8-N9-C4	-6.90	103.04	105.80
35	BB	690	G	O4'-C1'-N9	6.90	113.72	108.20
35	BB	1009	A	N7-C8-N9	-6.90	110.35	113.80
35	BB	2508	G	C2-N3-C4	6.90	115.35	111.90
35	BB	2877	G	O4'-C1'-N9	6.90	113.72	108.20
1	AA	644	U	C6-N1-C2	-6.90	116.86	121.00
1	AA	878	A	N1-C2-N3	6.90	132.75	129.30
35	BB	57	C	C5-C6-N1	6.90	124.45	121.00
35	BB	1186	G	C5-N7-C8	-6.90	100.85	104.30
35	BB	2180	U	P-O5'-C5'	6.90	131.93	120.90
1	AA	1068	G	N7-C8-N9	-6.89	109.65	113.10
1	AA	1179	A	N7-C8-N9	-6.89	110.35	113.80
35	BB	442	G	N1-C2-N3	-6.89	119.76	123.90
1	AA	112	G	N3-C2-N2	6.89	124.72	119.90
1	AA	351	G	O4'-C1'-N9	6.89	113.71	108.20
1	AA	537	G	N7-C8-N9	6.89	116.55	113.10
1	AA	1149	C	C5-C4-N4	-6.89	115.38	120.20
1	AA	1309	G	C8-N9-C4	-6.89	103.64	106.40
35	BB	582	A	C6-N1-C2	6.89	122.74	118.60
35	BB	1141	U	C2-N1-C1'	-6.89	109.43	117.70
35	BB	1516	G	N1-C2-N3	-6.89	119.76	123.90
35	BB	1601	G	C5-C6-O6	-6.89	124.47	128.60
35	BB	1990	C	N3-C4-N4	6.89	122.83	118.00
35	BB	2386	A	N1-C6-N6	6.89	122.73	118.60
35	BB	232	G	N1-C6-O6	6.89	124.03	119.90
35	BB	245	G	O4'-C1'-N9	6.89	113.71	108.20
35	BB	301	G	N9-C4-C5	6.89	108.16	105.40
35	BB	500	G	C5-C6-N1	-6.89	108.05	111.50
35	BB	853	C	N1-C2-O2	6.89	123.03	118.90
35	BB	1126	A	C5-C6-N6	-6.89	118.19	123.70
1	AA	776	G	C5-N7-C8	-6.89	100.86	104.30
35	BB	72	U	C4-C5-C6	6.89	123.83	119.70
35	BB	548	G	N3-C2-N2	6.89	124.72	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	611	C	N3-C4-N4	6.89	122.82	118.00
35	BB	905	A	C6-C5-N7	-6.89	127.48	132.30
35	BB	1385	A	C5-C6-N1	-6.89	114.26	117.70
35	BB	2411	A	N1-C6-N6	6.89	122.73	118.60
35	BB	2472	G	N1-C6-O6	6.89	124.03	119.90
35	BB	2492	U	O5'-P-OP2	-6.89	99.50	105.70
1	AA	433	G	N1-C2-N3	-6.89	119.77	123.90
35	BB	605	G	O4'-C1'-N9	6.89	113.71	108.20
1	AA	949	A	C6-C5-N7	-6.89	127.48	132.30
1	AA	1500	A	N1-C2-N3	6.89	132.74	129.30
33	B8	24	ARG	NE-CZ-NH2	6.89	123.74	120.30
35	BB	25	U	C5-C6-N1	6.89	126.14	122.70
35	BB	482	A	C8-N9-C4	-6.89	103.05	105.80
35	BB	1117	C	N1-C2-O2	-6.89	114.77	118.90
35	BB	1665	A	C6-C5-N7	-6.89	127.48	132.30
35	BB	1813	G	O4'-C1'-N9	6.89	113.71	108.20
35	BB	2637	U	N3-C4-C5	-6.89	110.47	114.60
35	BB	2840	C	O4'-C1'-N1	6.89	113.71	108.20
1	AA	8	A	C5-C6-N1	6.88	121.14	117.70
1	AA	1000	A	O4'-C1'-N9	6.88	113.71	108.20
1	AA	1060	U	C4-C5-C6	-6.88	115.57	119.70
1	AA	1105	A	O4'-C1'-N9	6.88	113.71	108.20
1	AA	1208	C	C5-C4-N4	-6.88	115.38	120.20
1	AA	1215	G	N3-C4-C5	-6.88	125.16	128.60
1	AA	1439	G	O4'-C1'-N9	6.88	113.71	108.20
4	AD	72	ARG	NE-CZ-NH2	-6.88	116.86	120.30
34	BA	53	A	C5'-C4'-C3'	6.88	127.02	116.00
34	BA	56	G	C4-C5-C6	6.88	122.93	118.80
35	BB	88	G	C4-C5-C6	6.88	122.93	118.80
35	BB	199	A	C4-C5-C6	6.88	120.44	117.00
35	BB	218	A	N9-C4-C5	6.88	108.55	105.80
35	BB	480	A	N9-C4-C5	6.88	108.55	105.80
35	BB	713	G	C4-C5-N7	6.88	113.55	110.80
35	BB	919	U	C5-C6-N1	6.88	126.14	122.70
35	BB	1227	G	N3-C2-N2	6.88	124.72	119.90
35	BB	1628	G	N9-C4-C5	-6.88	102.65	105.40
35	BB	1793	C	N3-C4-C5	-6.88	119.15	121.90
35	BB	1835	G	O4'-C1'-N9	6.88	113.71	108.20
35	BB	2044	C	O4'-C1'-N1	6.88	113.71	108.20
35	BB	2547	A	C2-N3-C4	-6.88	107.16	110.60
1	AA	973	G	N1-C6-O6	6.88	124.03	119.90
22	AV	7	G	N1-C2-N3	-6.88	119.77	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	287	G	N1-C6-O6	6.88	124.03	119.90
35	BB	469	G	C5-C6-O6	-6.88	124.47	128.60
35	BB	728	G	N1-C2-N3	-6.88	119.77	123.90
35	BB	974	G	O4'-C1'-N9	6.88	113.71	108.20
35	BB	1982	U	C2-N3-C4	-6.88	122.87	127.00
35	BB	1995	U	O4'-C1'-N1	6.88	113.71	108.20
1	AA	39	G	C8-N9-C4	6.88	109.15	106.40
35	BB	493	G	P-O3'-C3'	-6.88	111.44	119.70
35	BB	551	G	O4'-C1'-N9	6.88	113.70	108.20
35	BB	719	C	N1-C2-O2	-6.88	114.77	118.90
35	BB	2196	C	N3-C4-C5	-6.88	119.15	121.90
35	BB	2404	U	O4'-C1'-N1	6.88	113.70	108.20
35	BB	2886	A	N1-C2-N3	6.88	132.74	129.30
1	AA	1003	G	C5-C6-N1	-6.88	108.06	111.50
1	AA	1147	C	C2-N3-C4	6.88	123.34	119.90
35	BB	883	G	N3-C4-C5	6.88	132.04	128.60
35	BB	1249	U	N3-C4-O4	6.88	124.22	119.40
35	BB	1466	U	N1-C2-N3	6.88	119.03	114.90
35	BB	2018	G	O4'-C1'-N9	6.88	113.70	108.20
1	AA	873	A	C2-N3-C4	6.88	114.04	110.60
35	BB	407	G	N7-C8-N9	6.88	116.54	113.10
35	BB	999	U	C1'-O4'-C4'	6.88	115.40	109.90
35	BB	1156	A	C6-C5-N7	-6.88	127.48	132.30
35	BB	1288	G	O4'-C1'-N9	6.88	113.70	108.20
35	BB	1620	G	N3-C2-N2	6.88	124.71	119.90
35	BB	1695	G	C4-N9-C1'	6.88	135.44	126.50
35	BB	1737	G	N9-C4-C5	-6.88	102.65	105.40
35	BB	2361	G	N9-C4-C5	6.88	108.15	105.40
35	BB	2872	A	C5-C6-N1	-6.88	114.26	117.70
1	AA	232	G	N3-C2-N2	6.88	124.71	119.90
1	AA	391	G	N1-C2-N3	-6.88	119.78	123.90
1	AA	405	U	C2-N3-C4	-6.88	122.87	127.00
1	AA	1029	U	C4-C5-C6	-6.88	115.57	119.70
1	AA	1040	U	C5-C4-O4	-6.88	121.77	125.90
1	AA	1511	G	C3'-C2'-C1'	-6.88	96.00	101.50
1	AA	1512	U	C5-C4-O4	-6.88	121.77	125.90
11	AK	26	PHE	CB-CG-CD2	-6.88	115.99	120.80
35	BB	33	C	C5-C4-N4	-6.88	115.39	120.20
35	BB	415	A	C5-C6-N6	-6.88	118.20	123.70
35	BB	1153	C	N1-C2-N3	6.88	124.01	119.20
35	BB	1699	G	C1'-O4'-C4'	-6.88	104.40	109.90
35	BB	2210	U	N3-C2-O2	6.88	127.01	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2347	C	N3-C4-C5	-6.88	119.15	121.90
38	BE	78	TRP	CB-CG-CD2	-6.88	117.66	126.60
1	AA	1003	G	C6-C5-N7	-6.88	126.28	130.40
1	AA	54	C	C6-N1-C2	-6.87	117.55	120.30
1	AA	70	U	N3-C4-O4	6.87	124.21	119.40
1	AA	199	A	C5-C6-N6	-6.87	118.20	123.70
1	AA	662	U	C3'-C2'-C1'	-6.87	96.00	101.50
1	AA	788	U	O4'-C1'-N1	6.87	113.70	108.20
1	AA	959	A	C5-C6-N6	-6.87	118.20	123.70
12	AL	3	VAL	CA-CB-CG2	6.87	121.21	110.90
14	AN	19	TYR	CB-CG-CD1	-6.87	116.88	121.00
35	BB	812	C	O4'-C1'-N1	6.87	113.70	108.20
35	BB	1007	C	N3-C4-C5	-6.87	119.15	121.90
35	BB	1211	C	C5-C4-N4	-6.87	115.39	120.20
35	BB	1710	G	N3-C2-N2	6.87	124.71	119.90
35	BB	2117	A	N1-C2-N3	6.87	132.74	129.30
43	BJ	34	ARG	NE-CZ-NH2	6.87	123.74	120.30
1	AA	143	A	C5-N7-C8	6.87	107.34	103.90
1	AA	1097	C	C5-C4-N4	-6.87	115.39	120.20
22	AV	37	G	C8-N9-C4	-6.87	103.65	106.40
35	BB	1014	A	C2-N3-C4	6.87	114.04	110.60
35	BB	2433	A	N1-C2-N3	6.87	132.74	129.30
35	BB	2744	G	C2-N3-C4	6.87	115.33	111.90
1	AA	662	U	O4'-C1'-N1	6.87	113.70	108.20
35	BB	404	A	C4-C5-C6	6.87	120.44	117.00
35	BB	2114	A	N3-C4-C5	-6.87	121.99	126.80
35	BB	2319	G	P-O3'-C3'	6.87	127.94	119.70
1	AA	138	G	N1-C6-O6	6.87	124.02	119.90
1	AA	292	G	O4'-C1'-N9	6.87	113.69	108.20
22	AV	3	G	O4'-C1'-N9	6.87	113.69	108.20
35	BB	79	C	N3-C4-N4	6.87	122.81	118.00
35	BB	187	G	C5-C6-N1	6.87	114.93	111.50
35	BB	256	A	C2-N3-C4	-6.87	107.17	110.60
35	BB	1073	A	C5-N7-C8	6.87	107.33	103.90
35	BB	1087	G	C8-N9-C4	-6.87	103.65	106.40
35	BB	1180	U	C3'-C2'-C1'	6.87	107.00	101.50
35	BB	1509	A	N7-C8-N9	6.87	117.23	113.80
35	BB	1636	U	O4'-C1'-N1	6.87	113.69	108.20
35	BB	1680	U	O4'-C1'-N1	6.87	113.69	108.20
35	BB	1689	A	N3-C4-N9	6.87	132.90	127.40
35	BB	1913	A	N1-C6-N6	6.87	122.72	118.60
35	BB	2447	G	N3-C4-N9	-6.87	121.88	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	196	A	N1-C2-N3	6.87	132.73	129.30
1	AA	1423	G	P-O3'-C3'	-6.87	111.46	119.70
35	BB	184	C	C4-C5-C6	-6.87	113.97	117.40
35	BB	1236	G	N3-C2-N2	6.87	124.71	119.90
35	BB	1511	G	N1-C6-O6	6.87	124.02	119.90
35	BB	2450	A	C5-C6-N1	-6.87	114.27	117.70
1	AA	1474	U	O4'-C1'-N1	6.87	113.69	108.20
35	BB	789	A	N1-C2-N3	6.87	132.73	129.30
35	BB	1164	C	C6-N1-C2	-6.87	117.55	120.30
35	BB	1719	G	N3-C2-N2	6.87	124.71	119.90
35	BB	2492	U	O4'-C1'-N1	6.87	113.69	108.20
36	BC	261	ARG	NE-CZ-NH2	6.87	123.73	120.30
36	BC	261	ARG	NH1-CZ-NH2	-6.87	111.85	119.40
1	AA	22	G	C4-C5-C6	6.86	122.92	118.80
1	AA	525	C	N3-C4-C5	-6.86	119.16	121.90
1	AA	990	C	O4'-C1'-N1	6.86	113.69	108.20
35	BB	2129	C	C6-N1-C1'	-6.86	112.56	120.80
35	BB	2324	U	C5-C4-O4	-6.86	121.78	125.90
35	BB	2428	G	P-O3'-C3'	6.86	127.94	119.70
1	AA	443	C	O4'-C1'-N1	6.86	113.69	108.20
1	AA	566	G	O4'-C1'-N9	6.86	113.69	108.20
35	BB	764	A	O4'-C1'-N9	6.86	113.69	108.20
1	AA	596	A	C6-C5-N7	-6.86	127.50	132.30
35	BB	324	A	C8-N9-C4	-6.86	103.06	105.80
35	BB	979	A	C4-C5-C6	6.86	120.43	117.00
35	BB	1493	C	C2-N1-C1'	6.86	126.35	118.80
35	BB	2016	U	C5-C6-N1	6.86	126.13	122.70
35	BB	2763	G	O4'-C1'-N9	6.86	113.69	108.20
35	BB	2809	A	C6-N1-C2	6.86	122.72	118.60
1	AA	254	G	N9-C1'-C2'	-6.86	104.46	112.00
1	AA	430	A	C8-N9-C4	-6.86	103.06	105.80
6	AF	5	GLU	OE1-CD-OE2	6.86	131.53	123.30
35	BB	90	U	O4'-C1'-N1	6.86	113.69	108.20
35	BB	873	C	O4'-C1'-N1	6.86	113.69	108.20
35	BB	1064	C	N3-C4-N4	6.86	122.80	118.00
35	BB	1332	G	N9-C4-C5	-6.86	102.66	105.40
35	BB	1518	C	O4'-C1'-N1	6.86	113.69	108.20
35	BB	1857	G	C4'-C3'-C2'	6.86	109.46	102.60
35	BB	2283	C	N3-C4-N4	6.86	122.80	118.00
46	BM	66	ARG	NE-CZ-NH2	-6.86	116.87	120.30
1	AA	794	A	N7-C8-N9	6.86	117.23	113.80
1	AA	903	G	C1'-O4'-C4'	-6.86	104.42	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1295	U	N3-C4-C5	-6.86	110.49	114.60
1	AA	1454	G	C8-N9-C1'	6.86	135.91	127.00
35	BB	114	U	C5-C6-N1	6.86	126.13	122.70
35	BB	1154	G	C8-N9-C4	-6.86	103.66	106.40
35	BB	1472	C	C5-C4-N4	-6.86	115.40	120.20
35	BB	2298	A	C4-C5-C6	6.86	120.43	117.00
35	BB	2686	G	C5-N7-C8	6.86	107.73	104.30
1	AA	272	C	N3-C4-N4	6.85	122.80	118.00
35	BB	138	U	C4'-C3'-C2'	-6.85	95.75	102.60
35	BB	605	G	N3-C2-N2	6.85	124.70	119.90
35	BB	1524	G	C2-N3-C4	6.85	115.33	111.90
1	AA	668	G	C5-N7-C8	6.85	107.73	104.30
1	AA	958	A	C6-C5-N7	-6.85	127.50	132.30
1	AA	977	A	C4-C5-N7	-6.85	107.27	110.70
7	AG	142	ARG	NE-CZ-NH1	6.85	123.73	120.30
34	BA	78	A	C5-C6-N6	-6.85	118.22	123.70
35	BB	331	C	C6-N1-C2	-6.85	117.56	120.30
35	BB	521	U	N3-C4-O4	6.85	124.20	119.40
35	BB	721	A	C5-C6-N1	-6.85	114.27	117.70
35	BB	1432	G	N3-C4-C5	6.85	132.03	128.60
35	BB	2024	G	O4'-C1'-N9	6.85	113.68	108.20
35	BB	2171	A	C6-C5-N7	-6.85	127.50	132.30
35	BB	2212	A	C2-N3-C4	6.85	114.03	110.60
35	BB	2514	U	O4'-C1'-N1	6.85	113.68	108.20
1	AA	1491	G	N7-C8-N9	6.85	116.53	113.10
35	BB	515	A	C5-C6-N1	-6.85	114.27	117.70
1	AA	1275	A	O4'-C1'-N9	6.85	113.68	108.20
35	BB	341	C	C2-N3-C4	-6.85	116.48	119.90
35	BB	2040	G	C2-N3-C4	-6.85	108.47	111.90
35	BB	2558	C	N3-C4-N4	6.85	122.80	118.00
22	AV	69	G	N3-C4-C5	6.85	132.02	128.60
30	B5	168	ASN	CA-CB-CG	-6.85	98.34	113.40
35	BB	149	A	N1-C6-N6	6.85	122.71	118.60
35	BB	1370	C	C5-C4-N4	6.85	124.99	120.20
35	BB	2827	C	C5-C4-N4	-6.85	115.41	120.20
35	BB	242	G	P-O3'-C3'	6.85	127.92	119.70
35	BB	435	C	C2-N3-C4	6.85	123.32	119.90
35	BB	797	G	N1-C2-N3	-6.85	119.79	123.90
1	AA	474	G	C5-N7-C8	6.84	107.72	104.30
17	AQ	36	PHE	CB-CG-CD2	6.84	125.59	120.80
35	BB	386	G	C8-N9-C4	-6.84	103.66	106.40
35	BB	557	C	C2-N3-C4	6.84	123.32	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1524	G	C6-N1-C2	6.84	129.21	125.10
35	BB	1808	A	C5-C6-N6	-6.84	118.22	123.70
35	BB	1965	C	N3-C4-N4	6.84	122.79	118.00
35	BB	2718	G	C8-N9-C4	-6.84	103.66	106.40
44	BK	33	ALA	N-CA-CB	6.84	119.68	110.10
1	AA	723	U	C5-C6-N1	6.84	126.12	122.70
1	AA	823	C	C6-N1-C2	6.84	123.04	120.30
1	AA	1021	A	C5-N7-C8	6.84	107.32	103.90
1	AA	1134	G	C6-C5-N7	-6.84	126.29	130.40
35	BB	423	A	N9-C4-C5	6.84	108.54	105.80
35	BB	2789	C	N3-C4-C5	-6.84	119.16	121.90
1	AA	47	C	C6-N1-C1'	-6.84	112.59	120.80
1	AA	982	U	N3-C4-O4	6.84	124.19	119.40
2	AB	186	VAL	N-CA-C	-6.84	92.53	111.00
34	BA	82	U	C4-C5-C6	-6.84	115.59	119.70
35	BB	799	G	O4'-C1'-N9	6.84	113.67	108.20
35	BB	1344	U	N3-C4-O4	6.84	124.19	119.40
35	BB	1926	U	P-O5'-C5'	6.84	131.85	120.90
35	BB	2564	A	N3-C4-C5	-6.84	122.01	126.80
35	BB	2663	G	N7-C8-N9	-6.84	109.68	113.10
35	BB	2837	A	C6-N1-C2	6.84	122.70	118.60
1	AA	320	A	C5-C6-N6	-6.84	118.23	123.70
1	AA	1039	G	C8-N9-C4	-6.84	103.67	106.40
1	AA	1341	U	O4'-C1'-N1	6.84	113.67	108.20
1	AA	1404	C	C5-C4-N4	-6.84	115.41	120.20
35	BB	1262	A	C5-C6-N1	-6.84	114.28	117.70
35	BB	1287	A	C4-C5-C6	6.84	120.42	117.00
38	BE	69	ARG	NE-CZ-NH1	6.84	123.72	120.30
35	BB	371	A	C8-N9-C4	-6.84	103.06	105.80
35	BB	829	A	C2-N3-C4	6.84	114.02	110.60
35	BB	1871	A	C8-N9-C4	-6.84	103.06	105.80
35	BB	2417	C	C2-N3-C4	6.84	123.32	119.90
35	BB	2509	G	P-O3'-C3'	-6.84	111.50	119.70
39	BF	141	ASP	CB-CG-OD1	-6.84	112.15	118.30
1	AA	1018	G	C2-N3-C4	6.84	115.32	111.90
1	AA	1071	C	P-O3'-C3'	-6.84	111.50	119.70
1	AA	1105	A	N7-C8-N9	-6.84	110.38	113.80
1	AA	1459	G	N1-C2-N3	-6.84	119.80	123.90
7	AG	84	TYR	CB-CG-CD1	6.84	125.10	121.00
35	BB	781	A	N3-C4-C5	-6.84	122.01	126.80
35	BB	944	C	O4'-C1'-N1	6.84	113.67	108.20
35	BB	1046	A	C5-C6-N1	-6.84	114.28	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1285	A	N1-C6-N6	6.84	122.70	118.60
35	BB	1983	G	C6-C5-N7	-6.84	126.30	130.40
35	BB	2335	A	N9-C4-C5	6.84	108.53	105.80
1	AA	680	C	O4'-C1'-N1	6.83	113.67	108.20
35	BB	15	G	N7-C8-N9	6.83	116.52	113.10
35	BB	518	G	N3-C4-C5	6.83	132.02	128.60
35	BB	731	C	P-O3'-C3'	-6.83	111.50	119.70
35	BB	980	A	P-O3'-C3'	6.83	127.90	119.70
35	BB	1763	G	N1-C2-N3	-6.83	119.80	123.90
35	BB	1893	C	C6-N1-C2	-6.83	117.57	120.30
1	AA	270	A	O4'-C1'-N9	6.83	113.67	108.20
1	AA	408	A	N1-C6-N6	6.83	122.70	118.60
1	AA	710	G	P-O3'-C3'	-6.83	111.50	119.70
1	AA	826	C	N3-C2-O2	-6.83	117.12	121.90
1	AA	983	A	N1-C2-N3	6.83	132.72	129.30
35	BB	607	U	O4'-C1'-N1	6.83	113.67	108.20
35	BB	1144	A	C5-N7-C8	6.83	107.32	103.90
35	BB	2533	U	O4'-C1'-N1	6.83	113.67	108.20
1	AA	159	G	N1-C6-O6	6.83	124.00	119.90
1	AA	622	A	C6-C5-N7	-6.83	127.52	132.30
1	AA	978	A	N3-C4-C5	-6.83	122.02	126.80
1	AA	1421	G	N1-C6-O6	6.83	124.00	119.90
1	AA	1454	G	N1-C2-N3	-6.83	119.80	123.90
35	BB	464	U	C5-C6-N1	6.83	126.11	122.70
35	BB	935	C	O4'-C1'-N1	6.83	113.67	108.20
35	BB	1047	G	N3-C2-N2	6.83	124.68	119.90
35	BB	1654	A	P-O3'-C3'	-6.83	111.50	119.70
35	BB	1906	G	N1-C6-O6	6.83	124.00	119.90
35	BB	1970	A	N1-C6-N6	6.83	122.70	118.60
35	BB	2070	A	N1-C6-N6	6.83	122.70	118.60
35	BB	2444	G	C4-C5-N7	-6.83	108.07	110.80
31	B6	18	PHE	CB-CG-CD2	-6.83	116.02	120.80
35	BB	362	A	C1'-O4'-C4'	6.83	115.36	109.90
35	BB	816	C	C5-C4-N4	-6.83	115.42	120.20
35	BB	1631	G	N9-C4-C5	-6.83	102.67	105.40
35	BB	2443	C	C5-C4-N4	-6.83	115.42	120.20
1	AA	289	G	C2-N3-C4	6.83	115.31	111.90
1	AA	890	G	N3-C4-C5	-6.83	125.19	128.60
1	AA	1442	G	C6-C5-N7	-6.83	126.30	130.40
35	BB	74	A	C8-N9-C4	-6.83	103.07	105.80
35	BB	123	G	N1-C2-N3	-6.83	119.80	123.90
35	BB	485	C	C1'-O4'-C4'	-6.83	104.44	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	519	U	C5-C6-N1	6.83	126.11	122.70
35	BB	892	A	N3-C4-N9	6.83	132.86	127.40
35	BB	1866	A	N9-C4-C5	6.83	108.53	105.80
35	BB	2284	A	C5-C6-N6	-6.83	118.24	123.70
35	BB	2450	A	C4-C5-C6	6.83	120.41	117.00
1	AA	846	G	N3-C4-N9	6.83	130.10	126.00
35	BB	1541	C	N3-C4-N4	6.83	122.78	118.00
35	BB	2448	A	C8-N9-C4	-6.83	103.07	105.80
1	AA	141	G	C4-C5-C6	6.83	122.89	118.80
1	AA	147	G	C5-C6-O6	-6.83	124.50	128.60
1	AA	557	G	C4-C5-N7	-6.83	108.07	110.80
1	AA	559	A	O4'-C1'-N9	6.83	113.66	108.20
1	AA	1046	A	N1-C2-N3	6.83	132.71	129.30
1	AA	1066	C	O4'-C1'-N1	6.83	113.66	108.20
1	AA	1452	C	C5-C6-N1	6.83	124.41	121.00
22	AV	14	A	C4-C5-C6	6.83	120.41	117.00
35	BB	310	A	C1'-O4'-C4'	-6.83	104.44	109.90
35	BB	640	C	C3'-C2'-C1'	-6.83	96.04	101.50
35	BB	743	A	C8-N9-C4	6.83	108.53	105.80
35	BB	1410	G	C5-C6-O6	-6.83	124.50	128.60
35	BB	2102	G	C8-N9-C4	6.83	109.13	106.40
35	BB	2775	G	N1-C6-O6	6.83	124.00	119.90
1	AA	44	A	C6-N1-C2	-6.82	114.51	118.60
1	AA	630	A	N1-C6-N6	6.82	122.69	118.60
1	AA	869	G	C6-C5-N7	-6.82	126.31	130.40
1	AA	1099	G	C5-C6-O6	-6.82	124.51	128.60
22	AV	76	A	N1-C6-N6	6.82	122.69	118.60
35	BB	80	G	O4'-C1'-N9	6.82	113.66	108.20
35	BB	1312	U	C5-C6-N1	-6.82	119.29	122.70
35	BB	2239	G	C6-C5-N7	-6.82	126.31	130.40
35	BB	2440	C	C5-C4-N4	-6.82	115.42	120.20
35	BB	2784	U	N1-C2-O2	6.82	127.58	122.80
1	AA	234	C	O4'-C1'-N1	6.82	113.66	108.20
35	BB	874	G	C4-N9-C1'	6.82	135.37	126.50
35	BB	1793	C	O4'-C1'-N1	6.82	113.66	108.20
35	BB	1928	A	N1-C2-N3	6.82	132.71	129.30
35	BB	2004	G	C5-C6-N1	-6.82	108.09	111.50
1	AA	1218	C	C5-C6-N1	6.82	124.41	121.00
1	AA	1230	C	N3-C4-C5	-6.82	119.17	121.90
1	AA	1275	A	C5-C6-N1	-6.82	114.29	117.70
35	BB	339	U	C1'-O4'-C4'	-6.82	104.44	109.90
35	BB	1287	A	C5-C6-N1	-6.82	114.29	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1434	A	C5-N7-C8	6.82	107.31	103.90
35	BB	1694	C	C6-N1-C1'	-6.82	112.62	120.80
35	BB	1845	G	N3-C2-N2	6.82	124.67	119.90
35	BB	1978	A	N9-C4-C5	-6.82	103.07	105.80
35	BB	2565	A	C6-N1-C2	6.82	122.69	118.60
35	BB	2617	U	N3-C2-O2	6.82	126.97	122.20
1	AA	1226	C	C5-C6-N1	6.82	124.41	121.00
35	BB	1699	G	O4'-C1'-C2'	-6.82	98.98	105.80
35	BB	1851	U	C5'-C4'-O4'	6.82	117.28	109.10
1	AA	138	G	N3-C4-C5	6.82	132.01	128.60
1	AA	408	A	C4'-C3'-C2'	-6.82	95.78	102.60
1	AA	497	G	N1-C2-N3	-6.82	119.81	123.90
1	AA	639	G	N1-C2-N3	-6.82	119.81	123.90
2	AB	166	ASP	CB-CG-OD1	-6.82	112.17	118.30
22	AV	29	G	C5-C6-O6	-6.82	124.51	128.60
35	BB	888	C	N3-C4-C5	-6.82	119.17	121.90
35	BB	1015	U	N3-C4-O4	6.82	124.17	119.40
35	BB	1034	G	C4-C5-N7	6.82	113.53	110.80
35	BB	1899	A	C8-N9-C4	-6.82	103.07	105.80
1	AA	94	G	C5-C6-O6	-6.82	124.51	128.60
1	AA	161	A	C8-N9-C4	-6.82	103.07	105.80
1	AA	199	A	C5-C6-N1	-6.82	114.29	117.70
1	AA	445	G	O4'-C1'-N9	6.82	113.65	108.20
1	AA	685	G	N1-C6-O6	6.82	123.99	119.90
1	AA	755	G	P-O5'-C5'	-6.82	110.00	120.90
1	AA	1431	A	C5-C6-N1	-6.82	114.29	117.70
1	AA	1491	G	N1-C2-N3	-6.82	119.81	123.90
35	BB	98	G	C4-C5-N7	-6.82	108.07	110.80
35	BB	997	G	N3-C2-N2	6.82	124.67	119.90
35	BB	2017	U	C1'-O4'-C4'	-6.82	104.45	109.90
1	AA	974	A	C5'-C4'-C3'	-6.81	105.10	116.00
35	BB	765	C	O4'-C1'-N1	6.81	113.65	108.20
35	BB	1878	G	O4'-C1'-N9	6.81	113.65	108.20
35	BB	2153	C	O4'-C1'-N1	6.81	113.65	108.20
35	BB	2738	A	N3-C4-N9	6.81	132.85	127.40
1	AA	49	U	N3-C4-C5	-6.81	110.51	114.60
1	AA	144	G	C5-C6-O6	-6.81	124.51	128.60
1	AA	592	G	C6-N1-C2	6.81	129.19	125.10
1	AA	616	G	C6-C5-N7	-6.81	126.31	130.40
1	AA	806	C	C5-C4-N4	-6.81	115.43	120.20
1	AA	971	G	C5-C6-O6	-6.81	124.51	128.60
1	AA	975	A	N9-C4-C5	6.81	108.53	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1442	G	C4-C5-C6	6.81	122.89	118.80
35	BB	560	C	O4'-C1'-N1	6.81	113.65	108.20
35	BB	2292	U	N3-C4-C5	-6.81	110.51	114.60
1	AA	171	A	N7-C8-N9	-6.81	110.39	113.80
35	BB	2699	C	N3-C4-C5	-6.81	119.18	121.90
35	BB	2754	U	N3-C4-C5	6.81	118.69	114.60
1	AA	511	C	C6-N1-C2	6.81	123.02	120.30
1	AA	743	A	C4-C5-C6	6.81	120.41	117.00
1	AA	823	C	N3-C4-C5	-6.81	119.18	121.90
1	AA	833	G	N7-C8-N9	-6.81	109.69	113.10
35	BB	1836	C	O4'-C1'-N1	6.81	113.65	108.20
35	BB	2821	A	C2-N3-C4	6.81	114.00	110.60
35	BB	2888	C	N3-C4-C5	-6.81	119.18	121.90
1	AA	834	U	N3-C2-O2	6.81	126.97	122.20
35	BB	246	C	C6-N1-C2	6.81	123.02	120.30
35	BB	445	C	C6-N1-C2	-6.81	117.58	120.30
35	BB	894	U	C5-C4-O4	6.81	129.98	125.90
35	BB	1202	G	N9-C4-C5	6.81	108.12	105.40
35	BB	1371	G	C5-N7-C8	-6.81	100.90	104.30
35	BB	1581	G	O4'-C1'-N9	6.81	113.65	108.20
35	BB	1891	G	N1-C2-N2	-6.81	110.07	116.20
35	BB	2017	U	O4'-C1'-N1	6.81	113.64	108.20
35	BB	2345	G	C8-N9-C4	6.81	109.12	106.40
35	BB	2413	G	C6-C5-N7	-6.81	126.32	130.40
35	BB	2675	A	C5-C6-N6	-6.81	118.25	123.70
35	BB	2693	G	C5-C6-O6	-6.81	124.52	128.60
1	AA	931	C	P-O3'-C3'	-6.81	111.53	119.70
1	AA	1332	A	N1-C6-N6	6.81	122.68	118.60
35	BB	282	A	C5-C6-N1	-6.81	114.30	117.70
35	BB	2645	G	N9-C4-C5	-6.81	102.68	105.40
1	AA	73	C	C5-C4-N4	-6.80	115.44	120.20
1	AA	121	U	C4'-C3'-C2'	-6.80	95.80	102.60
1	AA	1290	G	N1-C2-N3	-6.80	119.82	123.90
1	AA	1352	C	P-O3'-C3'	6.80	127.87	119.70
30	B5	122	ARG	NE-CZ-NH1	6.80	123.70	120.30
35	BB	265	A	N7-C8-N9	-6.80	110.40	113.80
35	BB	292	U	N3-C4-O4	6.80	124.16	119.40
35	BB	777	G	N7-C8-N9	-6.80	109.70	113.10
35	BB	857	G	C2-N3-C4	6.80	115.30	111.90
35	BB	1354	A	C5-C6-N1	-6.80	114.30	117.70
35	BB	1447	C	P-O3'-C3'	-6.80	111.54	119.70
35	BB	1602	U	C5'-C4'-O4'	6.80	117.27	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1645	G	C6-C5-N7	-6.80	126.32	130.40
35	BB	2067	G	N1-C6-O6	6.80	123.98	119.90
34	BA	10	G	O4'-C1'-N9	6.80	113.64	108.20
35	BB	973	A	C8-N9-C4	-6.80	103.08	105.80
35	BB	1095	A	C4-C5-C6	6.80	120.40	117.00
35	BB	1287	A	P-O5'-C5'	6.80	131.78	120.90
36	BC	42	ARG	NE-CZ-NH2	-6.80	116.90	120.30
1	AA	334	C	C2-N3-C4	-6.80	116.50	119.90
1	AA	616	G	C4-N9-C1'	6.80	135.34	126.50
1	AA	690	G	C5-C6-O6	-6.80	124.52	128.60
1	AA	1212	U	C4-C5-C6	6.80	123.78	119.70
35	BB	88	G	C6-C5-N7	-6.80	126.32	130.40
35	BB	120	U	N3-C4-C5	-6.80	110.52	114.60
35	BB	523	C	N3-C4-N4	6.80	122.76	118.00
35	BB	633	A	C4-C5-C6	6.80	120.40	117.00
35	BB	654	A	C8-N9-C4	-6.80	103.08	105.80
35	BB	1168	G	N1-C2-N2	-6.80	110.08	116.20
35	BB	1920	C	P-O5'-C5'	6.80	131.78	120.90
35	BB	2205	A	C5-C6-N1	-6.80	114.30	117.70
47	BN	87	PHE	CB-CG-CD2	6.80	125.56	120.80
51	BR	13	ARG	NE-CZ-NH1	-6.80	116.90	120.30
35	BB	91	A	C8-N9-C4	6.80	108.52	105.80
35	BB	266	G	C4-C5-C6	6.80	122.88	118.80
35	BB	365	U	N3-C4-O4	6.80	124.16	119.40
35	BB	1852	U	C5-C4-O4	-6.80	121.82	125.90
35	BB	2145	C	C4'-C3'-C2'	6.80	109.40	102.60
1	AA	705	G	C4'-C3'-C2'	-6.80	95.80	102.60
1	AA	1111	A	C5-C6-N1	-6.80	114.30	117.70
4	AD	163	GLN	N-CA-CB	6.80	122.84	110.60
35	BB	322	A	C5-C6-N6	-6.80	118.26	123.70
35	BB	1074	G	N1-C2-N3	-6.80	119.82	123.90
35	BB	2399	G	C6-N1-C2	6.80	129.18	125.10
1	AA	210	C	C3'-C2'-C1'	-6.80	96.06	101.50
1	AA	364	A	O4'-C4'-C3'	-6.80	97.20	104.00
1	AA	769	G	C8-N9-C4	6.80	109.12	106.40
1	AA	1345	U	N1-C2-N3	6.80	118.98	114.90
17	AQ	10	ARG	NE-CZ-NH2	-6.80	116.90	120.30
35	BB	333	G	C6-C5-N7	-6.80	126.32	130.40
35	BB	348	A	C2-N3-C4	6.80	114.00	110.60
35	BB	644	A	C5-N7-C8	6.80	107.30	103.90
35	BB	1639	C	O4'-C1'-N1	6.80	113.64	108.20
35	BB	1643	G	O4'-C1'-N9	6.80	113.64	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1728	C	O4'-C1'-N1	6.80	113.64	108.20
35	BB	1825	U	OP1-P-OP2	-6.80	109.41	119.60
35	BB	2482	A	C5-N7-C8	6.80	107.30	103.90
35	BB	2556	C	N3-C2-O2	6.80	126.66	121.90
1	AA	720	C	O4'-C1'-N1	6.79	113.64	108.20
1	AA	1010	U	C3'-C2'-C1'	-6.79	96.06	101.50
1	AA	1285	A	C4-C5-C6	6.79	120.40	117.00
35	BB	291	G	C4-C5-N7	6.79	113.52	110.80
35	BB	414	C	N3-C4-N4	6.79	122.76	118.00
35	BB	632	A	N1-C2-N3	6.79	132.70	129.30
35	BB	1001	A	C8-N9-C4	-6.79	103.08	105.80
35	BB	1038	G	N3-C4-N9	6.79	130.08	126.00
35	BB	1080	A	O4'-C1'-N9	6.79	113.64	108.20
1	AA	275	G	C8-N9-C4	6.79	109.12	106.40
1	AA	583	A	C5-C6-N1	-6.79	114.30	117.70
1	AA	1461	G	O4'-C1'-N9	6.79	113.64	108.20
35	BB	232	G	N3-C2-N2	6.79	124.66	119.90
35	BB	289	G	O4'-C1'-N9	6.79	113.64	108.20
35	BB	689	A	C8-N9-C4	6.79	108.52	105.80
35	BB	967	U	N3-C4-O4	6.79	124.16	119.40
35	BB	1246	A	N1-C2-N3	6.79	132.70	129.30
35	BB	1966	A	C6-C5-N7	-6.79	127.54	132.30
1	AA	156	C	C1'-O4'-C4'	6.79	115.33	109.90
1	AA	171	A	C5-N7-C8	6.79	107.30	103.90
1	AA	342	C	O4'-C1'-N1	6.79	113.63	108.20
1	AA	466	A	C5'-C4'-O4'	6.79	117.25	109.10
1	AA	1385	G	N3-C2-N2	-6.79	115.14	119.90
3	AC	22	PHE	CB-CG-CD1	-6.79	116.05	120.80
16	AP	25	ARG	NE-CZ-NH2	-6.79	116.90	120.30
35	BB	215	G	N1-C2-N3	-6.79	119.83	123.90
35	BB	216	A	N3-C4-N9	6.79	132.83	127.40
35	BB	329	G	C5-N7-C8	-6.79	100.91	104.30
35	BB	1112	G	C4-C5-C6	6.79	122.88	118.80
35	BB	1394	U	C3'-C2'-C1'	6.79	106.93	101.50
35	BB	1785	A	O4'-C1'-N9	6.79	113.63	108.20
35	BB	1913	A	N3-C4-N9	6.79	132.83	127.40
35	BB	2636	C	N3-C2-O2	6.79	126.65	121.90
1	AA	66	A	C4-C5-C6	6.79	120.39	117.00
1	AA	655	A	C6-C5-N7	-6.79	127.55	132.30
1	AA	816	A	N9-C4-C5	6.79	108.52	105.80
1	AA	352	C	C5-C6-N1	6.79	124.39	121.00
1	AA	944	G	N1-C6-O6	6.79	123.97	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	983	A	C4-C5-C6	6.79	120.39	117.00
1	AA	1025	U	C5-C6-N1	-6.79	119.31	122.70
1	AA	1316	G	C5-C6-N1	-6.79	108.11	111.50
35	BB	518	G	C6-N1-C2	-6.79	121.03	125.10
35	BB	1212	G	C3'-C2'-C1'	6.79	106.93	101.50
35	BB	1361	G	C5-C6-O6	-6.79	124.53	128.60
35	BB	2276	G	N9-C4-C5	-6.79	102.69	105.40
1	AA	736	C	C3'-C2'-C1'	-6.79	96.07	101.50
1	AA	1468	A	C8-N9-C4	-6.79	103.08	105.80
1	AA	1494	G	C4'-C3'-C2'	-6.79	95.81	102.60
35	BB	267	C	C2-N3-C4	6.79	123.29	119.90
35	BB	992	C	N3-C4-C5	-6.79	119.19	121.90
35	BB	1196	C	C4-C5-C6	6.79	120.79	117.40
1	AA	40	C	C6-N1-C2	-6.79	117.59	120.30
1	AA	286	C	C2-N1-C1'	6.79	126.26	118.80
1	AA	517	G	N1-C2-N3	-6.79	119.83	123.90
4	AD	28	ASP	CB-CG-OD1	-6.79	112.19	118.30
35	BB	64	A	O4'-C4'-C3'	-6.79	97.21	104.00
35	BB	886	A	N7-C8-N9	-6.79	110.41	113.80
35	BB	975	A	C4-C5-C6	6.79	120.39	117.00
35	BB	1030	C	N3-C2-O2	-6.79	117.15	121.90
35	BB	1129	A	C5-N7-C8	6.79	107.29	103.90
35	BB	2193	G	N3-C4-C5	-6.79	125.21	128.60
35	BB	2197	U	O4'-C1'-N1	6.79	113.63	108.20
35	BB	2766	A	C6-C5-N7	-6.79	127.55	132.30
35	BB	2816	G	C4-C5-N7	-6.79	108.09	110.80
1	AA	727	G	C8-N9-C4	-6.78	103.69	106.40
35	BB	864	G	N1-C2-N3	-6.78	119.83	123.90
35	BB	1471	G	C6-C5-N7	-6.78	126.33	130.40
35	BB	1577	C	C6-N1-C2	-6.78	117.59	120.30
35	BB	1731	G	C5-N7-C8	6.78	107.69	104.30
35	BB	2151	U	O4'-C1'-N1	6.78	113.63	108.20
35	BB	2370	G	N9-C4-C5	-6.78	102.69	105.40
1	AA	21	G	C4'-C3'-C2'	-6.78	95.82	102.60
1	AA	196	A	C5-C6-N1	-6.78	114.31	117.70
1	AA	229	U	C5-C4-O4	-6.78	121.83	125.90
1	AA	636	U	O4'-C1'-N1	6.78	113.62	108.20
1	AA	742	G	C4'-C3'-C2'	-6.78	95.82	102.60
1	AA	929	G	C5-N7-C8	6.78	107.69	104.30
1	AA	1214	C	P-O3'-C3'	6.78	127.84	119.70
1	AA	1255	G	N3-C2-N2	6.78	124.65	119.90
35	BB	1574	C	N1-C2-O2	-6.78	114.83	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2479	U	C2-N3-C4	-6.78	122.93	127.00
35	BB	2894	G	C6-C5-N7	-6.78	126.33	130.40
35	BB	2758	A	C5-N7-C8	6.78	107.29	103.90
1	AA	40	C	OP2-P-O3'	6.78	120.11	105.20
1	AA	353	A	O4'-C1'-N9	6.78	113.62	108.20
1	AA	1146	A	P-O3'-C3'	-6.78	111.57	119.70
9	AI	17	ARG	NE-CZ-NH1	6.78	123.69	120.30
35	BB	1136	G	C4-C5-N7	-6.78	108.09	110.80
35	BB	1168	G	C5-C6-O6	-6.78	124.53	128.60
35	BB	2619	C	N3-C4-N4	6.78	122.75	118.00
35	BB	2709	G	O4'-C4'-C3'	-6.78	97.22	104.00
1	AA	101	A	N7-C8-N9	6.78	117.19	113.80
1	AA	966	G	N7-C8-N9	-6.78	109.71	113.10
1	AA	1038	C	C5-C4-N4	-6.78	115.46	120.20
1	AA	1074	G	C5-N7-C8	-6.78	100.91	104.30
1	AA	1170	A	O4'-C1'-N9	6.78	113.62	108.20
1	AA	1397	C	O4'-C1'-N1	6.78	113.62	108.20
1	AA	1437	A	C5-C6-N6	-6.78	118.28	123.70
1	AA	1523	G	C2-N3-C4	-6.78	108.51	111.90
35	BB	103	A	C2-N3-C4	6.78	113.99	110.60
35	BB	1416	G	P-O3'-C3'	6.78	127.83	119.70
35	BB	2596	U	N3-C4-O4	6.78	124.14	119.40
35	BB	2822	G	C4-C5-N7	-6.78	108.09	110.80
1	AA	631	C	N3-C4-N4	6.77	122.74	118.00
1	AA	1284	C	N3-C4-N4	6.77	122.74	118.00
35	BB	35	G	N1-C6-O6	6.77	123.96	119.90
35	BB	1294	U	O4'-C1'-N1	6.77	113.62	108.20
35	BB	1448	G	N1-C2-N2	-6.77	110.10	116.20
35	BB	1840	G	N9-C4-C5	-6.77	102.69	105.40
36	BC	269	ARG	NE-CZ-NH2	-6.77	116.91	120.30
1	AA	878	A	C2-N3-C4	-6.77	107.21	110.60
1	AA	1198	G	C5-N7-C8	6.77	107.69	104.30
22	AV	66	C	N3-C4-C5	-6.77	119.19	121.90
35	BB	205	G	C6-N1-C2	-6.77	121.04	125.10
35	BB	491	G	O4'-C1'-N9	6.77	113.62	108.20
35	BB	791	C	C4'-C3'-C2'	-6.77	95.83	102.60
35	BB	1630	A	P-O3'-C3'	-6.77	111.57	119.70
35	BB	2176	A	C8-N9-C4	-6.77	103.09	105.80
35	BB	2247	A	C2-N3-C4	-6.77	107.21	110.60
1	AA	389	A	N1-C6-N6	6.77	122.66	118.60
1	AA	529	G	C6-N1-C2	6.77	129.16	125.10
1	AA	625	U	P-O3'-C3'	6.77	127.83	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1193	G	C6-N1-C2	-6.77	121.04	125.10
35	BB	221	A	C5-C6-N1	-6.77	114.31	117.70
35	BB	979	A	O4'-C1'-N9	6.77	113.62	108.20
35	BB	1376	C	N3-C4-N4	6.77	122.74	118.00
35	BB	1848	A	N3-C4-N9	6.77	132.82	127.40
35	BB	2755	C	C5-C6-N1	6.77	124.39	121.00
1	AA	720	C	C2-N3-C4	-6.77	116.52	119.90
1	AA	925	G	N3-C4-N9	6.77	130.06	126.00
4	AD	127	ARG	NE-CZ-NH1	6.77	123.69	120.30
22	AV	69	G	N9-C4-C5	-6.77	102.69	105.40
35	BB	278	A	C5-N7-C8	6.77	107.28	103.90
35	BB	416	U	N3-C2-O2	-6.77	117.46	122.20
35	BB	592	A	N1-C6-N6	6.77	122.66	118.60
35	BB	922	C	C5-C4-N4	-6.77	115.46	120.20
35	BB	924	G	C5-C6-O6	-6.77	124.54	128.60
35	BB	1337	G	C1'-O4'-C4'	6.77	115.32	109.90
35	BB	2289	G	O4'-C1'-N9	6.77	113.62	108.20
35	BB	2804	U	O4'-C1'-N1	6.77	113.61	108.20
50	BQ	112	ALA	N-CA-CB	6.77	119.58	110.10
1	AA	267	C	N3-C4-C5	-6.77	119.19	121.90
35	BB	491	G	C2-N3-C4	6.77	115.28	111.90
35	BB	520	G	C8-N9-C4	-6.77	103.69	106.40
35	BB	1396	U	C6-N1-C2	-6.77	116.94	121.00
35	BB	1664	A	C1'-O4'-C4'	-6.77	104.49	109.90
35	BB	1928	A	N3-C4-C5	-6.77	122.06	126.80
35	BB	2799	A	C4-C5-N7	-6.77	107.32	110.70
1	AA	1308	U	C4-C5-C6	6.77	123.76	119.70
7	AG	2	ARG	NE-CZ-NH1	6.77	123.68	120.30
35	BB	6	A	C8-N9-C4	-6.77	103.09	105.80
35	BB	1580	A	C4'-C3'-C2'	-6.77	95.83	102.60
35	BB	2826	A	C6-N1-C2	-6.77	114.54	118.60
1	AA	334	C	C5-C6-N1	6.76	124.38	121.00
1	AA	1022	A	C5-C6-N1	-6.76	114.32	117.70
35	BB	545	U	C5-C6-N1	-6.76	119.32	122.70
35	BB	645	C	C2'-C3'-O3'	6.76	124.52	113.70
35	BB	1018	U	N3-C4-C5	6.76	118.66	114.60
35	BB	1051	G	C5-C6-N1	-6.76	108.12	111.50
35	BB	1360	G	N3-C4-C5	6.76	131.98	128.60
35	BB	1427	A	C8-N9-C4	-6.76	103.09	105.80
35	BB	1500	G	P-O3'-C3'	-6.76	111.58	119.70
35	BB	1527	G	C1'-O4'-C4'	6.76	115.31	109.90
35	BB	1897	G	N3-C2-N2	6.76	124.64	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1956	U	C4'-C3'-C2'	-6.76	95.83	102.60
35	BB	2201	G	C8-N9-C4	6.76	109.11	106.40
35	BB	2225	A	C6-C5-N7	-6.76	127.56	132.30
1	AA	359	G	N3-C4-C5	6.76	131.98	128.60
1	AA	1108	G	C4-C5-N7	-6.76	108.09	110.80
35	BB	381	G	O4'-C1'-N9	6.76	113.61	108.20
35	BB	1425	G	N1-C6-O6	6.76	123.96	119.90
1	AA	614	C	C2-N1-C1'	6.76	126.24	118.80
1	AA	834	U	C6-N1-C2	-6.76	116.94	121.00
35	BB	845	A	C5-C6-N1	-6.76	114.32	117.70
35	BB	2095	A	C4-C5-N7	6.76	114.08	110.70
35	BB	2536	G	N7-C8-N9	6.76	116.48	113.10
35	BB	2753	A	O4'-C1'-N9	6.76	113.61	108.20
35	BB	540	C	N3-C4-C5	-6.76	119.20	121.90
35	BB	596	U	O4'-C1'-N1	6.76	113.61	108.20
35	BB	2509	G	C4-C5-C6	6.76	122.86	118.80
35	BB	2725	A	C5-N7-C8	6.76	107.28	103.90
35	BB	2831	G	N1-C6-O6	6.76	123.96	119.90
35	BB	2885	G	O4'-C1'-N9	6.76	113.61	108.20
35	BB	2891	U	C4-C5-C6	-6.76	115.64	119.70
1	AA	526	C	O4'-C1'-N1	6.76	113.61	108.20
1	AA	619	U	C3'-C2'-C1'	6.76	106.91	101.50
1	AA	1172	C	N1-C2-O2	-6.76	114.84	118.90
35	BB	71	A	C3'-C2'-C1'	-6.76	96.09	101.50
35	BB	114	U	C4-C5-C6	-6.76	115.64	119.70
55	BW	57	TYR	CG-CD1-CE1	-6.76	115.89	121.30
1	AA	765	G	C5'-C4'-O4'	6.76	117.21	109.10
1	AA	829	G	N3-C2-N2	6.76	124.63	119.90
1	AA	984	C	O4'-C1'-N1	6.76	113.61	108.20
1	AA	1097	C	N3-C4-C5	-6.76	119.20	121.90
1	AA	1480	A	C4-C5-C6	6.76	120.38	117.00
35	BB	31	C	P-O3'-C3'	-6.76	111.59	119.70
35	BB	320	A	C5-C6-N1	-6.76	114.32	117.70
35	BB	826	U	O4'-C1'-N1	6.76	113.61	108.20
35	BB	2340	A	O4'-C4'-C3'	-6.76	97.24	104.00
35	BB	2542	A	C4-C5-C6	6.76	120.38	117.00
48	BO	16	ARG	NE-CZ-NH1	6.76	123.68	120.30
1	AA	12	U	C5-C4-O4	-6.75	121.85	125.90
1	AA	205	A	C4-C5-N7	-6.75	107.32	110.70
1	AA	574	A	C4-C5-C6	6.75	120.38	117.00
13	AM	105	ALA	N-CA-CB	6.75	119.56	110.10
35	BB	1131	G	N3-C4-C5	-6.75	125.22	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1603	A	N7-C8-N9	-6.75	110.42	113.80
35	BB	2753	A	N3-C4-C5	-6.75	122.07	126.80
1	AA	1402	C	O4'-C1'-N1	6.75	113.60	108.20
1	AA	1492	A	C8-N9-C4	-6.75	103.10	105.80
34	BA	99	A	N1-C6-N6	6.75	122.65	118.60
35	BB	51	G	N1-C6-O6	6.75	123.95	119.90
35	BB	821	A	O4'-C1'-N9	6.75	113.60	108.20
35	BB	1663	G	N3-C2-N2	6.75	124.63	119.90
35	BB	2152	G	O4'-C1'-N9	6.75	113.60	108.20
35	BB	2177	C	N3-C4-C5	-6.75	119.20	121.90
1	AA	103	U	N3-C4-O4	6.75	124.13	119.40
1	AA	158	G	C4-C5-N7	-6.75	108.10	110.80
35	BB	308	G	N1-C6-O6	6.75	123.95	119.90
35	BB	464	U	C5-C4-O4	-6.75	121.85	125.90
35	BB	1115	G	O5'-C5'-C4'	-6.75	98.87	111.70
35	BB	1237	A	C6-N1-C2	6.75	122.65	118.60
35	BB	1240	U	C2-N3-C4	6.75	131.05	127.00
35	BB	1645	G	N1-C2-N3	-6.75	119.85	123.90
35	BB	2297	A	C8-N9-C4	-6.75	103.10	105.80
35	BB	2569	G	C5-C6-O6	-6.75	124.55	128.60
35	BB	2726	A	N7-C8-N9	-6.75	110.42	113.80
37	BD	161	MET	N-CA-CB	6.75	122.75	110.60
1	AA	1139	G	O4'-C1'-N9	-6.75	102.80	108.20
1	AA	1231	G	C6-N1-C2	-6.75	121.05	125.10
35	BB	2023	C	N1-C2-N3	6.75	123.92	119.20
35	BB	2679	A	P-O5'-C5'	-6.75	110.10	120.90
1	AA	457	G	C5-N7-C8	6.75	107.67	104.30
1	AA	478	A	N1-C6-N6	6.75	122.65	118.60
1	AA	664	G	C8-N9-C4	-6.75	103.70	106.40
1	AA	665	A	C8-N9-C4	6.75	108.50	105.80
1	AA	1300	G	C8-N9-C4	6.75	109.10	106.40
34	BA	104	A	C6-C5-N7	-6.75	127.58	132.30
35	BB	31	C	N3-C4-N4	6.75	122.72	118.00
35	BB	247	G	C4-C5-C6	6.75	122.85	118.80
35	BB	844	A	C1'-O4'-C4'	-6.75	104.50	109.90
35	BB	1143	A	C2-N3-C4	6.75	113.97	110.60
35	BB	2037	A	C2-N3-C4	-6.75	107.23	110.60
1	AA	495	A	N3-C4-C5	-6.75	122.08	126.80
1	AA	1025	U	C4'-C3'-C2'	-6.75	95.85	102.60
1	AA	1369	C	N3-C4-N4	6.75	122.72	118.00
35	BB	1076	C	N3-C2-O2	6.75	126.62	121.90
35	BB	1146	C	C2-N3-C4	6.75	123.27	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1260	A	C8-N9-C4	-6.75	103.10	105.80
35	BB	2162	G	N1-C2-N3	-6.75	119.85	123.90
35	BB	2709	G	N7-C8-N9	-6.75	109.73	113.10
1	AA	110	C	C5-C4-N4	-6.75	115.48	120.20
15	AO	68	TYR	CB-CG-CD1	-6.75	116.95	121.00
35	BB	517	C	P-O5'-C5'	6.75	131.69	120.90
35	BB	839	U	C3'-C2'-C1'	-6.75	96.10	101.50
35	BB	1109	C	C2-N1-C1'	6.75	126.22	118.80
35	BB	1771	C	O4'-C1'-N1	6.75	113.60	108.20
35	BB	2094	A	C5-C6-N1	-6.75	114.33	117.70
35	BB	2461	A	O4'-C1'-N9	6.75	113.60	108.20
1	AA	82	G	O4'-C1'-N9	6.74	113.59	108.20
1	AA	640	A	C5-C6-N1	-6.74	114.33	117.70
1	AA	993	G	N3-C2-N2	6.74	124.62	119.90
1	AA	1157	A	O4'-C1'-N9	6.74	113.59	108.20
22	AV	52	G	C5-C6-O6	-6.74	124.55	128.60
35	BB	686	U	O5'-P-OP1	6.74	118.79	110.70
35	BB	922	C	C6-N1-C2	6.74	123.00	120.30
35	BB	1275	A	C8-N9-C1'	-6.74	115.56	127.70
35	BB	1279	G	C4-C5-N7	-6.74	108.10	110.80
35	BB	1598	A	N1-C2-N3	6.74	132.67	129.30
35	BB	2282	G	C2'-C3'-O3'	6.74	124.49	113.70
35	BB	2293	G	C8-N9-C4	6.74	109.10	106.40
1	AA	1515	G	C4-C5-C6	6.74	122.84	118.80
35	BB	1017	G	C4-C5-N7	6.74	113.50	110.80
35	BB	1338	G	C4-C5-C6	6.74	122.84	118.80
35	BB	2267	A	N9-C4-C5	6.74	108.50	105.80
35	BB	2333	A	C4-C5-N7	-6.74	107.33	110.70
1	AA	435	A	N3-C4-C5	-6.74	122.08	126.80
1	AA	758	C	C5-C6-N1	6.74	124.37	121.00
1	AA	1067	A	C5'-C4'-O4'	6.74	117.19	109.10
35	BB	1471	G	C4-N9-C1'	-6.74	117.74	126.50
35	BB	1553	A	P-O5'-C5'	-6.74	110.11	120.90
35	BB	1568	G	P-O5'-C5'	6.74	131.68	120.90
35	BB	2253	G	C5-C6-N1	6.74	114.87	111.50
35	BB	2368	C	O4'-C1'-N1	6.74	113.59	108.20
1	AA	257	G	O4'-C1'-N9	6.74	113.59	108.20
1	AA	1358	U	N1-C2-N3	6.74	118.94	114.90
34	BA	63	C	C5-C4-N4	-6.74	115.48	120.20
35	BB	307	G	O4'-C1'-N9	6.74	113.59	108.20
35	BB	440	C	N1-C2-O2	6.74	122.94	118.90
35	BB	1107	G	C8-N9-C4	-6.74	103.70	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1304	A	C1'-O4'-C4'	6.74	115.29	109.90
35	BB	1379	U	N3-C4-C5	-6.74	110.56	114.60
35	BB	1614	A	C5-C6-N6	-6.74	118.31	123.70
35	BB	2193	G	N9-C4-C5	6.74	108.09	105.40
48	BO	10	ARG	NE-CZ-NH2	-6.74	116.93	120.30
54	BU	86	PHE	CB-CG-CD2	6.74	125.52	120.80
1	AA	1018	G	O4'-C1'-N9	6.74	113.59	108.20
1	AA	1024	G	C6-C5-N7	-6.74	126.36	130.40
1	AA	1141	C	C5-C6-N1	6.74	124.37	121.00
35	BB	452	G	N1-C2-N2	-6.74	110.14	116.20
35	BB	800	A	N1-C2-N3	6.74	132.67	129.30
35	BB	954	G	C4-C5-N7	-6.74	108.11	110.80
35	BB	1942	C	C5-C6-N1	6.74	124.37	121.00
1	AA	544	G	C4-C5-C6	6.74	122.84	118.80
1	AA	782	A	O4'-C4'-C3'	-6.74	97.27	104.00
1	AA	895	G	C4'-C3'-C2'	-6.74	95.86	102.60
1	AA	954	G	C5-N7-C8	6.74	107.67	104.30
1	AA	1477	U	N3-C2-O2	6.74	126.92	122.20
35	BB	30	G	N1-C2-N3	-6.74	119.86	123.90
35	BB	522	A	C4-C5-C6	6.74	120.37	117.00
35	BB	588	U	C5-C6-N1	6.74	126.07	122.70
35	BB	834	G	C5-C6-O6	-6.74	124.56	128.60
35	BB	1588	G	C5-C6-N1	-6.74	108.13	111.50
35	BB	1641	A	O4'-C1'-N9	6.74	113.59	108.20
35	BB	2641	G	O4'-C1'-N9	6.74	113.59	108.20
1	AA	1175	G	N9-C4-C5	-6.73	102.71	105.40
1	AA	1355	G	C4-C5-N7	6.73	113.49	110.80
35	BB	1755	A	O4'-C1'-N9	6.73	113.59	108.20
35	BB	2406	A	C5-C6-N1	-6.73	114.33	117.70
1	AA	14	U	C5-C4-O4	-6.73	121.86	125.90
1	AA	15	G	N7-C8-N9	6.73	116.47	113.10
35	BB	385	C	C2-N3-C4	6.73	123.27	119.90
35	BB	1672	A	C6-C5-N7	-6.73	127.59	132.30
35	BB	2050	C	C5-C4-N4	-6.73	115.49	120.20
35	BB	2158	A	O4'-C1'-N9	6.73	113.59	108.20
35	BB	2159	G	N1-C2-N3	-6.73	119.86	123.90
35	BB	2235	G	N3-C4-C5	-6.73	125.23	128.60
35	BB	2293	G	O4'-C1'-N9	6.73	113.59	108.20
35	BB	2319	G	N1-C6-O6	6.73	123.94	119.90
1	AA	1488	G	N1-C2-N3	-6.73	119.86	123.90
2	AB	26	MET	CG-SD-CE	6.73	110.97	100.20
35	BB	567	U	O4'-C1'-N1	6.73	113.58	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1783	A	N3-C4-N9	6.73	132.78	127.40
35	BB	2357	G	N9-C4-C5	6.73	108.09	105.40
35	BB	2595	G	C4-C5-N7	-6.73	108.11	110.80
1	AA	238	A	C8-N9-C4	-6.73	103.11	105.80
1	AA	875	U	N1-C2-O2	-6.73	118.09	122.80
35	BB	1493	C	C6-N1-C1'	-6.73	112.72	120.80
1	AA	808	C	N3-C2-O2	6.73	126.61	121.90
1	AA	860	A	C5-N7-C8	6.73	107.26	103.90
1	AA	1088	G	O4'-C1'-N9	6.73	113.58	108.20
17	AQ	64	ARG	NE-CZ-NH2	-6.73	116.94	120.30
34	BA	25	U	N1-C2-O2	-6.73	118.09	122.80
35	BB	549	G	N3-C2-N2	6.73	124.61	119.90
35	BB	943	A	O4'-C1'-N9	6.73	113.58	108.20
35	BB	1542	U	C2-N3-C4	-6.73	122.96	127.00
35	BB	1636	U	C5-C6-N1	6.73	126.06	122.70
35	BB	2830	C	N3-C4-N4	6.73	122.71	118.00
1	AA	928	G	C5-C6-O6	-6.73	124.56	128.60
1	AA	1306	A	C8-N9-C4	6.73	108.49	105.80
35	BB	34	U	N3-C4-O4	6.73	124.11	119.40
35	BB	1291	C	N3-C4-C5	-6.73	119.21	121.90
35	BB	2030	A	N1-C2-N3	6.73	132.66	129.30
35	BB	2066	C	C4-C5-C6	6.73	120.76	117.40
35	BB	2870	C	C4-C5-C6	6.73	120.76	117.40
35	BB	2893	A	O4'-C1'-N9	6.73	113.58	108.20
1	AA	75	G	C5'-C4'-C3'	-6.72	105.24	116.00
1	AA	372	C	C5-C6-N1	6.72	124.36	121.00
1	AA	583	A	N7-C8-N9	-6.72	110.44	113.80
1	AA	649	A	C3'-C2'-C1'	-6.72	96.12	101.50
1	AA	741	G	C6-N1-C2	6.72	129.13	125.10
35	BB	810	U	N1-C2-O2	6.72	127.51	122.80
35	BB	1361	G	C2-N3-C4	6.72	115.26	111.90
35	BB	1581	G	N1-C2-N3	-6.72	119.87	123.90
35	BB	2276	G	C4'-C3'-C2'	-6.72	95.88	102.60
35	BB	2563	U	N3-C4-C5	-6.72	110.57	114.60
35	BB	2747	G	P-O5'-C5'	6.72	131.66	120.90
35	BB	2783	U	O4'-C1'-N1	6.72	113.58	108.20
1	AA	223	A	C4-C5-N7	-6.72	107.34	110.70
1	AA	1002	G	C4'-C3'-C2'	-6.72	95.88	102.60
1	AA	1022	A	C4-C5-N7	-6.72	107.34	110.70
1	AA	1201	A	C8-N9-C4	-6.72	103.11	105.80
1	AA	1450	U	N1-C2-N3	6.72	118.93	114.90
35	BB	763	G	N3-C2-N2	6.72	124.61	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	831	G	C5-C6-O6	-6.72	124.57	128.60
35	BB	1489	C	C6-N1-C1'	-6.72	112.73	120.80
35	BB	1552	A	N9-C4-C5	-6.72	103.11	105.80
35	BB	1658	C	N3-C4-N4	6.72	122.70	118.00
35	BB	2115	G	C6-C5-N7	-6.72	126.37	130.40
35	BB	2273	A	N3-C4-C5	-6.72	122.09	126.80
35	BB	2476	A	N3-C4-C5	-6.72	122.09	126.80
35	BB	2661	G	C8-N9-C4	6.72	109.09	106.40
35	BB	2692	G	C6-C5-N7	-6.72	126.37	130.40
56	BY	59	PHE	CB-CG-CD1	6.72	125.51	120.80
35	BB	13	A	N9-C4-C5	6.72	108.49	105.80
35	BB	2325	G	C5-C6-N1	-6.72	108.14	111.50
35	BB	2353	G	O4'-C1'-N9	6.72	113.58	108.20
35	BB	2403	C	P-O5'-C5'	-6.72	110.15	120.90
35	BB	2605	U	C4'-C3'-C2'	-6.72	95.88	102.60
35	BB	2846	G	N9-C4-C5	-6.72	102.71	105.40
1	AA	589	U	N1-C2-O2	-6.72	118.10	122.80
1	AA	700	G	N1-C2-N3	-6.72	119.87	123.90
1	AA	1246	A	C4'-C3'-C2'	-6.72	95.88	102.60
13	AM	69	ARG	NE-CZ-NH2	-6.72	116.94	120.30
35	BB	42	A	N7-C8-N9	6.72	117.16	113.80
35	BB	897	C	C4'-C3'-C2'	-6.72	95.88	102.60
35	BB	1410	G	N3-C4-N9	-6.72	121.97	126.00
35	BB	1538	G	C5-N7-C8	-6.72	100.94	104.30
1	AA	1104	G	C6-C5-N7	-6.72	126.37	130.40
1	AA	1360	A	C6-C5-N7	-6.72	127.60	132.30
22	AV	24	G	C5-C6-O6	-6.72	124.57	128.60
34	BA	26	C	N3-C4-C5	-6.72	119.21	121.90
35	BB	195	A	C5-C6-N1	-6.72	114.34	117.70
35	BB	1302	A	N1-C6-N6	6.72	122.63	118.60
35	BB	1309	G	C8-N9-C4	-6.72	103.71	106.40
35	BB	1715	G	C6-C5-N7	-6.72	126.37	130.40
35	BB	2432	A	C5-C6-N6	-6.72	118.33	123.70
35	BB	2466	C	N3-C2-O2	6.72	126.60	121.90
44	BK	70	ARG	NE-CZ-NH2	-6.72	116.94	120.30
1	AA	590	U	C5-C4-O4	-6.72	121.87	125.90
1	AA	849	G	C6-C5-N7	-6.72	126.37	130.40
1	AA	1055	A	C5-C6-N6	-6.72	118.33	123.70
35	BB	1199	U	C6-N1-C2	6.72	125.03	121.00
35	BB	1389	G	C5-C6-N1	-6.72	108.14	111.50
35	BB	1505	A	C5-C6-N6	-6.72	118.33	123.70
35	BB	1510	G	O4'-C1'-N9	6.72	113.57	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	229	U	N3-C4-O4	6.71	124.10	119.40
1	AA	979	C	C6-N1-C2	-6.71	117.61	120.30
1	AA	1182	G	N3-C4-C5	-6.71	125.24	128.60
1	AA	1261	A	N1-C2-N3	-6.71	125.94	129.30
4	AD	192	ALA	N-CA-CB	6.71	119.50	110.10
35	BB	10	A	C4-C5-N7	-6.71	107.34	110.70
35	BB	524	G	C4-C5-C6	6.71	122.83	118.80
35	BB	589	U	C5-C4-O4	-6.71	121.87	125.90
35	BB	840	C	O4'-C1'-N1	6.71	113.57	108.20
35	BB	1274	A	N9-C4-C5	-6.71	103.11	105.80
35	BB	1297	C	N3-C4-C5	-6.71	119.21	121.90
35	BB	1407	G	C4'-C3'-C2'	-6.71	95.89	102.60
35	BB	2142	A	C5-C6-N6	-6.71	118.33	123.70
1	AA	1430	A	C5-C6-N6	-6.71	118.33	123.70
35	BB	55	G	N1-C6-O6	6.71	123.93	119.90
35	BB	196	A	C5-C6-N1	-6.71	114.34	117.70
35	BB	1935	G	N7-C8-N9	6.71	116.46	113.10
35	BB	2433	A	N7-C8-N9	-6.71	110.44	113.80
1	AA	171	A	O4'-C1'-N9	6.71	113.57	108.20
1	AA	232	G	C4-C5-N7	6.71	113.48	110.80
30	B5	21	TYR	CB-CG-CD1	-6.71	116.97	121.00
35	BB	1589	U	C4-C5-C6	-6.71	115.67	119.70
35	BB	654	A	C2-N3-C4	6.71	113.95	110.60
35	BB	1032	A	C6-N1-C2	6.71	122.63	118.60
35	BB	2423	U	C4-C5-C6	6.71	123.73	119.70
1	AA	81	A	C6-C5-N7	-6.71	127.60	132.30
12	AL	40	THR	CA-CB-CG2	-6.71	103.01	112.40
35	BB	1406	U	C6-N1-C2	-6.71	116.97	121.00
35	BB	2086	U	O4'-C1'-N1	6.71	113.57	108.20
35	BB	2392	A	O4'-C1'-N9	6.71	113.57	108.20
35	BB	2862	G	C6-N1-C2	6.71	129.12	125.10
1	AA	246	A	C2-N3-C4	-6.71	107.25	110.60
1	AA	794	A	C5-C6-N1	-6.71	114.35	117.70
1	AA	841	C	C5-C4-N4	-6.71	115.51	120.20
1	AA	1518	A	O4'-C1'-N9	6.71	113.57	108.20
35	BB	90	U	N3-C4-O4	6.71	124.09	119.40
35	BB	1756	G	C4-C5-N7	6.71	113.48	110.80
35	BB	1793	C	N3-C4-N4	6.71	122.69	118.00
35	BB	1989	G	C4-C5-C6	6.71	122.82	118.80
35	BB	2280	G	N9-C4-C5	-6.71	102.72	105.40
35	BB	2362	C	C5-C4-N4	-6.71	115.50	120.20
1	AA	331	G	C4-C5-N7	-6.71	108.12	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	753	A	N7-C8-N9	6.71	117.15	113.80
35	BB	1510	G	C8-N9-C4	6.71	109.08	106.40
35	BB	2708	G	N1-C2-N3	-6.71	119.88	123.90
35	BB	2767	C	O4'-C1'-N1	6.71	113.56	108.20
35	BB	2860	A	N9-C4-C5	-6.71	103.12	105.80
56	BY	44	PHE	CB-CG-CD1	6.71	125.49	120.80
1	AA	561	U	O4'-C1'-N1	6.70	113.56	108.20
1	AA	792	A	C3'-C2'-C1'	-6.70	96.14	101.50
1	AA	1020	G	C4-C5-N7	-6.70	108.12	110.80
35	BB	42	A	C8-N9-C4	-6.70	103.12	105.80
35	BB	249	C	O4'-C1'-N1	6.70	113.56	108.20
35	BB	356	G	C4-C5-N7	6.70	113.48	110.80
35	BB	450	G	N1-C6-O6	6.70	123.92	119.90
35	BB	546	U	O4'-C1'-N1	6.70	113.56	108.20
35	BB	1622	G	O4'-C1'-N9	6.70	113.56	108.20
1	AA	482	A	N3-C4-N9	6.70	132.76	127.40
35	BB	718	A	C5'-C4'-C3'	6.70	126.72	116.00
35	BB	1220	G	N1-C6-O6	6.70	123.92	119.90
35	BB	1395	A	C6-C5-N7	-6.70	127.61	132.30
35	BB	2332	C	N3-C4-N4	6.70	122.69	118.00
35	BB	2654	A	C4-C5-N7	-6.70	107.35	110.70
1	AA	404	G	C8-N9-C4	-6.70	103.72	106.40
1	AA	465	A	C5-C6-N6	-6.70	118.34	123.70
1	AA	727	G	O4'-C1'-N9	6.70	113.56	108.20
1	AA	782	A	N7-C8-N9	-6.70	110.45	113.80
1	AA	1479	C	C2-N1-C1'	6.70	126.17	118.80
35	BB	675	A	N1-C6-N6	6.70	122.62	118.60
35	BB	899	A	C5-C6-N6	-6.70	118.34	123.70
35	BB	943	A	N3-C4-C5	-6.70	122.11	126.80
35	BB	2119	A	C6-C5-N7	-6.70	127.61	132.30
35	BB	2225	A	C5-C6-N1	-6.70	114.35	117.70
35	BB	2235	G	C2-N3-C4	6.70	115.25	111.90
1	AA	158	G	N1-C2-N3	-6.70	119.88	123.90
1	AA	177	G	N3-C4-N9	6.70	130.02	126.00
1	AA	904	U	C3'-C2'-C1'	-6.70	96.14	101.50
34	BA	14	U	C5-C4-O4	6.70	129.92	125.90
35	BB	347	A	O4'-C1'-N9	6.70	113.56	108.20
35	BB	887	U	N3-C4-O4	6.70	124.09	119.40
35	BB	974	G	N3-C2-N2	6.70	124.59	119.90
35	BB	1615	C	N3-C4-C5	6.70	124.58	121.90
35	BB	1757	A	N1-C2-N3	6.70	132.65	129.30
35	BB	2188	U	C4-C5-C6	6.70	123.72	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	BU	39	ASN	CB-CA-C	-6.70	97.00	110.40
1	AA	27	G	P-O3'-C3'	-6.70	111.66	119.70
1	AA	505	G	C4-C5-N7	6.70	113.48	110.80
1	AA	1068	G	C5-N7-C8	6.70	107.65	104.30
35	BB	1077	A	N3-C4-N9	6.70	132.76	127.40
35	BB	1268	A	O4'-C1'-N9	6.70	113.56	108.20
35	BB	1951	U	N3-C4-O4	6.70	124.09	119.40
35	BB	2009	A	C8-N9-C4	6.70	108.48	105.80
35	BB	2427	C	P-O3'-C3'	6.70	127.74	119.70
35	BB	2745	C	C5-C4-N4	-6.70	115.51	120.20
1	AA	15	G	C1'-O4'-C4'	6.70	115.26	109.90
1	AA	817	C	C2-N1-C1'	6.70	126.17	118.80
35	BB	83	A	C4-C5-N7	-6.70	107.35	110.70
35	BB	564	C	C4'-C3'-C2'	-6.70	95.91	102.60
35	BB	978	G	P-O3'-C3'	-6.70	111.66	119.70
35	BB	1104	C	P-O3'-C3'	6.70	127.73	119.70
35	BB	1115	G	P-O3'-C3'	6.70	127.73	119.70
35	BB	1396	U	C2-N3-C4	-6.70	122.98	127.00
35	BB	1570	A	N7-C8-N9	-6.70	110.45	113.80
34	BA	22	U	O4'-C1'-N1	6.69	113.56	108.20
35	BB	2552	U	C5-C6-N1	-6.69	119.35	122.70
35	BB	2736	A	C8-N9-C4	-6.69	103.12	105.80
35	BB	2838	G	N1-C2-N3	-6.69	119.88	123.90
1	AA	1288	A	N9-C4-C5	6.69	108.48	105.80
1	AA	1492	A	C5-N7-C8	6.69	107.25	103.90
35	BB	405	U	N1-C2-O2	6.69	127.48	122.80
35	BB	746	U	C2-N3-C4	-6.69	122.98	127.00
35	BB	749	A	N1-C6-N6	6.69	122.61	118.60
35	BB	1169	A	C5-C6-N1	-6.69	114.35	117.70
35	BB	1338	G	C5-C6-N1	-6.69	108.15	111.50
35	BB	2121	G	N1-C6-O6	6.69	123.92	119.90
1	AA	228	A	C2-N3-C4	6.69	113.94	110.60
1	AA	300	A	C5-N7-C8	6.69	107.25	103.90
35	BB	5	A	C5'-C4'-C3'	-6.69	105.29	116.00
35	BB	686	U	O5'-C5'-C4'	-6.69	98.99	111.70
35	BB	924	G	C4-C5-C6	6.69	122.81	118.80
35	BB	1283	G	N1-C6-O6	6.69	123.91	119.90
35	BB	1352	U	C5-C4-O4	-6.69	121.89	125.90
35	BB	1461	C	N3-C4-C5	-6.69	119.22	121.90
35	BB	1532	A	C5-C6-N1	-6.69	114.36	117.70
35	BB	1746	A	N3-C4-C5	-6.69	122.12	126.80
35	BB	2149	U	O4'-C1'-N1	6.69	113.55	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2212	A	N1-C2-N3	-6.69	125.95	129.30
3	AC	125	ARG	NE-CZ-NH2	-6.69	116.95	120.30
35	BB	558	U	P-O3'-C3'	-6.69	111.67	119.70
1	AA	285	C	C6-N1-C2	-6.69	117.62	120.30
1	AA	785	G	O5'-C5'-C4'	-6.69	98.99	111.70
1	AA	960	U	N3-C2-O2	6.69	126.88	122.20
1	AA	989	U	C5-C4-O4	-6.69	121.89	125.90
1	AA	1036	A	C2-N3-C4	-6.69	107.26	110.60
12	AL	6	LEU	CB-CG-CD2	6.69	122.37	111.00
35	BB	1530	G	C5-N7-C8	6.69	107.64	104.30
12	AL	37	TYR	CB-CG-CD2	-6.69	116.99	121.00
34	BA	41	G	C4-C5-C6	6.69	122.81	118.80
34	BA	65	U	N3-C2-O2	6.69	126.88	122.20
35	BB	705	A	O4'-C1'-N9	6.69	113.55	108.20
35	BB	1679	A	N3-C4-N9	-6.69	122.05	127.40
35	BB	1749	A	P-O3'-C3'	-6.69	111.68	119.70
25	B0	17	ARG	NE-CZ-NH2	6.68	123.64	120.30
34	BA	67	G	O4'-C1'-N9	6.68	113.55	108.20
35	BB	74	A	C5-C6-N1	-6.68	114.36	117.70
35	BB	911	A	C5-N7-C8	6.68	107.24	103.90
35	BB	1186	G	C4-C5-N7	6.68	113.47	110.80
35	BB	1631	G	C6-N1-C2	6.68	129.11	125.10
35	BB	1645	G	C4-C5-N7	6.68	113.47	110.80
35	BB	2343	U	C5-C4-O4	-6.68	121.89	125.90
35	BB	2598	A	O4'-C1'-N9	6.68	113.55	108.20
35	BB	2819	G	C4-C5-C6	6.68	122.81	118.80
1	AA	292	G	N3-C2-N2	6.68	124.58	119.90
1	AA	559	A	C2-N3-C4	6.68	113.94	110.60
1	AA	1319	A	N1-C2-N3	6.68	132.64	129.30
1	AA	1397	C	C6-N1-C1'	-6.68	112.78	120.80
22	AV	6	C	C4'-C3'-C2'	-6.68	95.92	102.60
30	B5	8	MET	CG-SD-CE	-6.68	89.51	100.20
35	BB	509	C	O4'-C1'-N1	6.68	113.55	108.20
35	BB	673	C	C2-N1-C1'	6.68	126.15	118.80
35	BB	2414	G	N3-C4-N9	-6.68	121.99	126.00
35	BB	2710	C	N3-C4-N4	6.68	122.68	118.00
29	B4	43	ARG	NE-CZ-NH2	-6.68	116.96	120.30
35	BB	1944	U	N3-C4-C5	-6.68	110.59	114.60
1	AA	957	U	O4'-C1'-N1	6.68	113.54	108.20
1	AA	1111	A	C5-N7-C8	6.68	107.24	103.90
12	AL	108	ASP	CB-CG-OD1	-6.68	112.29	118.30
35	BB	2132	U	C4'-C3'-O3'	6.68	126.36	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	230	G	N3-C2-N2	6.68	124.58	119.90
1	AA	1284	C	C5-C6-N1	-6.68	117.66	121.00
30	B5	7	ARG	NE-CZ-NH2	-6.68	116.96	120.30
35	BB	588	U	C3'-C2'-C1'	6.68	106.84	101.50
35	BB	1840	G	N9-C1'-C2'	-6.68	104.65	112.00
35	BB	2152	G	N1-C2-N3	-6.68	119.89	123.90
52	BS	82	MET	CA-CB-CG	6.68	124.65	113.30
1	AA	57	G	O4'-C1'-N9	6.68	113.54	108.20
1	AA	1502	A	N9-C4-C5	6.68	108.47	105.80
1	AA	1523	G	C4-C5-C6	6.68	122.81	118.80
26	B1	49	ASP	CB-CG-OD1	-6.68	112.29	118.30
32	B7	48	MET	CA-CB-CG	6.68	124.65	113.30
35	BB	366	C	N3-C4-N4	6.68	122.67	118.00
35	BB	422	A	C4-C5-C6	6.68	120.34	117.00
35	BB	779	U	C4-C5-C6	-6.68	115.69	119.70
35	BB	935	C	C5-C6-N1	6.68	124.34	121.00
35	BB	1267	U	C5-C6-N1	6.68	126.04	122.70
35	BB	1535	A	C5-N7-C8	-6.68	100.56	103.90
35	BB	1739	A	C8-N9-C4	-6.68	103.13	105.80
35	BB	1857	G	N7-C8-N9	6.68	116.44	113.10
35	BB	2577	A	C4-C5-C6	6.68	120.34	117.00
47	BN	72	ASP	CB-CG-OD1	-6.68	112.29	118.30
35	BB	1148	U	O4'-C1'-N1	6.67	113.54	108.20
35	BB	2124	G	N1-C2-N3	-6.67	119.89	123.90
1	AA	109	A	C6-N1-C2	6.67	122.60	118.60
35	BB	1039	A	N3-C4-C5	-6.67	122.13	126.80
35	BB	1139	G	C2-N3-C4	6.67	115.24	111.90
35	BB	1278	C	C4-C5-C6	6.67	120.74	117.40
35	BB	1412	U	O4'-C4'-C3'	-6.67	97.33	104.00
1	AA	222	C	P-O3'-C3'	-6.67	111.69	119.70
1	AA	408	A	C5-C6-N1	-6.67	114.36	117.70
1	AA	1246	A	C4-C5-C6	6.67	120.34	117.00
1	AA	1483	A	C6-C5-N7	-6.67	127.63	132.30
35	BB	400	G	N1-C2-N2	-6.67	110.20	116.20
35	BB	1416	G	C6-N1-C2	6.67	129.10	125.10
35	BB	1652	A	O4'-C1'-N9	6.67	113.54	108.20
35	BB	1696	G	N1-C2-N3	-6.67	119.90	123.90
35	BB	1819	A	O4'-C1'-N9	6.67	113.54	108.20
35	BB	2815	C	C5-C4-N4	-6.67	115.53	120.20
1	AA	417	G	C6-C5-N7	-6.67	126.40	130.40
1	AA	832	G	P-O3'-C3'	-6.67	111.70	119.70
1	AA	1197	A	C5-C6-N6	-6.67	118.36	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2729	G	N3-C2-N2	6.67	124.57	119.90
1	AA	379	C	P-O3'-C3'	-6.67	111.70	119.70
1	AA	707	U	N3-C4-O4	6.67	124.07	119.40
1	AA	923	A	C6-N1-C2	-6.67	114.60	118.60
1	AA	937	A	C5-C6-N1	-6.67	114.37	117.70
1	AA	1326	U	P-O3'-C3'	-6.67	111.70	119.70
35	BB	1115	G	P-O5'-C5'	-6.67	110.23	120.90
35	BB	1631	G	N1-C2-N3	-6.67	119.90	123.90
35	BB	2281	A	N7-C8-N9	6.67	117.14	113.80
35	BB	2497	A	C5-N7-C8	6.67	107.23	103.90
35	BB	2623	G	O4'-C1'-N9	6.67	113.53	108.20
35	BB	2798	U	P-O5'-C5'	6.67	131.57	120.90
22	AV	36	G	P-O5'-C5'	-6.67	110.23	120.90
35	BB	698	C	N3-C2-O2	-6.67	117.23	121.90
35	BB	1412	U	N3-C4-C5	6.67	118.60	114.60
35	BB	1594	U	C5-C4-O4	-6.67	121.90	125.90
35	BB	2327	A	C4-C5-C6	6.67	120.33	117.00
1	AA	1270	G	C8-N9-C4	-6.67	103.73	106.40
35	BB	39	G	N1-C2-N3	-6.67	119.90	123.90
35	BB	1349	C	N3-C4-C5	-6.67	119.23	121.90
35	BB	1964	G	C5-N7-C8	6.67	107.63	104.30
35	BB	2195	U	N1-C2-O2	-6.67	118.14	122.80
46	BM	31	PHE	CB-CG-CD2	-6.67	116.14	120.80
1	AA	100	G	O4'-C1'-N9	6.66	113.53	108.20
1	AA	324	G	N3-C2-N2	6.66	124.56	119.90
1	AA	452	A	N1-C6-N6	6.66	122.60	118.60
1	AA	1167	A	N1-C2-N3	6.66	132.63	129.30
16	AP	32	PHE	CB-CA-C	-6.66	97.07	110.40
35	BB	815	C	C6-N1-C2	-6.66	117.64	120.30
35	BB	1869	G	O4'-C1'-N9	6.66	113.53	108.20
35	BB	2094	A	O4'-C1'-N9	6.66	113.53	108.20
35	BB	2121	G	C6-N1-C2	6.66	129.10	125.10
35	BB	2277	G	N9-C4-C5	-6.66	102.73	105.40
35	BB	2903	U	N3-C2-O2	-6.66	117.53	122.20
1	AA	1152	A	N9-C4-C5	6.66	108.47	105.80
7	AG	17	PHE	CB-CG-CD2	-6.66	116.14	120.80
22	AV	1	C	O4'-C1'-N1	6.66	113.53	108.20
49	BP	98	TYR	CB-CG-CD1	-6.66	117.00	121.00
13	AM	10	ASP	CB-CG-OD2	-6.66	112.31	118.30
35	BB	164	C	N1-C1'-C2'	-6.66	104.67	112.00
35	BB	576	U	C5-C6-N1	6.66	126.03	122.70
35	BB	784	G	C2-N3-C4	6.66	115.23	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1071	G	O4'-C1'-N9	6.66	113.53	108.20
35	BB	1091	G	N3-C2-N2	6.66	124.56	119.90
35	BB	1187	G	C1'-O4'-C4'	6.66	115.23	109.90
1	AA	48	C	N3-C4-N4	6.66	122.66	118.00
1	AA	160	A	C4-C5-C6	6.66	120.33	117.00
1	AA	518	C	N1-C2-O2	6.66	122.89	118.90
1	AA	720	C	C5-C6-N1	6.66	124.33	121.00
1	AA	763	G	C5-C6-N1	6.66	114.83	111.50
1	AA	852	G	C5-N7-C8	6.66	107.63	104.30
1	AA	1032	G	O4'-C1'-N9	6.66	113.53	108.20
1	AA	1428	A	N1-C6-N6	6.66	122.59	118.60
1	AA	1472	U	C4'-C3'-C2'	-6.66	95.94	102.60
34	BA	22	U	P-O3'-C3'	-6.66	111.71	119.70
35	BB	141	G	C8-N9-C4	6.66	109.06	106.40
35	BB	333	G	N1-C2-N3	-6.66	119.91	123.90
35	BB	433	C	N3-C4-N4	6.66	122.66	118.00
35	BB	1014	A	P-O3'-C3'	-6.66	111.71	119.70
35	BB	1030	C	C6-N1-C2	-6.66	117.64	120.30
35	BB	1388	G	O4'-C1'-N9	6.66	113.53	108.20
35	BB	1395	A	C4-C5-C6	6.66	120.33	117.00
35	BB	1557	C	C6-N1-C2	6.66	122.96	120.30
35	BB	1773	A	O4'-C1'-N9	6.66	113.53	108.20
35	BB	1813	G	C4'-C3'-C2'	-6.66	95.94	102.60
35	BB	1902	C	N3-C4-N4	6.66	122.66	118.00
35	BB	2242	G	C3'-C2'-C1'	6.66	106.83	101.50
35	BB	2773	C	O4'-C1'-N1	6.66	113.53	108.20
35	BB	2801	G	N1-C2-N3	-6.66	119.91	123.90
1	AA	502	A	C1'-O4'-C4'	6.66	115.23	109.90
1	AA	1000	A	C5-C6-N6	-6.66	118.37	123.70
35	BB	570	G	C1'-O4'-C4'	-6.66	104.58	109.90
1	AA	231	U	N1-C2-O2	6.66	127.46	122.80
1	AA	255	G	O4'-C1'-N9	6.66	113.52	108.20
34	BA	46	A	C2-N3-C4	-6.66	107.27	110.60
35	BB	1994	C	C5-C4-N4	-6.66	115.54	120.20
35	BB	2342	C	C6-N1-C2	6.66	122.96	120.30
35	BB	2414	G	N3-C4-C5	6.66	131.93	128.60
1	AA	559	A	N1-C6-N6	6.65	122.59	118.60
22	AV	3	G	N9-C4-C5	-6.65	102.74	105.40
1	AA	321	A	C5-C6-N6	-6.65	118.38	123.70
1	AA	358	U	O4'-C1'-N1	6.65	113.52	108.20
1	AA	396	C	N3-C2-O2	6.65	126.56	121.90
1	AA	517	G	C2-N3-C4	6.65	115.23	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	597	G	C8-N9-C4	6.65	109.06	106.40
35	BB	370	G	N1-C2-N3	-6.65	119.91	123.90
35	BB	741	U	C6-N1-C2	-6.65	117.01	121.00
35	BB	2092	U	C2-N1-C1'	6.65	125.68	117.70
35	BB	2265	U	C4-C5-C6	-6.65	115.71	119.70
35	BB	2502	G	C5-C6-O6	-6.65	124.61	128.60
1	AA	65	A	C4-C5-C6	6.65	120.33	117.00
1	AA	134	G	C5-N7-C8	-6.65	100.97	104.30
1	AA	494	G	C5-C6-O6	-6.65	124.61	128.60
1	AA	1089	G	C4-C5-N7	-6.65	108.14	110.80
35	BB	26	G	N3-C4-N9	6.65	129.99	126.00
35	BB	385	C	N3-C4-N4	6.65	122.66	118.00
35	BB	547	A	C5-N7-C8	6.65	107.22	103.90
35	BB	617	G	N1-C6-O6	6.65	123.89	119.90
35	BB	807	U	C5-C4-O4	6.65	129.89	125.90
35	BB	1054	A	C5-N7-C8	6.65	107.22	103.90
35	BB	1478	G	C5-C6-O6	-6.65	124.61	128.60
35	BB	2297	A	P-O3'-C3'	-6.65	111.72	119.70
35	BB	2302	U	N1-C2-N3	-6.65	110.91	114.90
35	BB	2438	U	C5-C4-O4	-6.65	121.91	125.90
35	BB	2530	A	C5'-C4'-O4'	6.65	117.08	109.10
35	BB	2778	A	N9-C4-C5	-6.65	103.14	105.80
1	AA	441	A	N9-C4-C5	6.65	108.46	105.80
1	AA	996	A	C5-C6-N6	-6.65	118.38	123.70
35	BB	919	U	N1-C2-O2	-6.65	118.14	122.80
35	BB	2189	U	C2-N3-C4	-6.65	123.01	127.00
35	BB	2246	G	N3-C2-N2	6.65	124.55	119.90
1	AA	208	U	C5'-C4'-C3'	6.65	126.64	116.00
1	AA	276	G	C4-C5-N7	6.65	113.46	110.80
1	AA	350	G	N1-C6-O6	6.65	123.89	119.90
1	AA	631	C	N1-C2-N3	-6.65	114.55	119.20
1	AA	790	A	C5-C6-N1	-6.65	114.38	117.70
1	AA	1081	A	C6-C5-N7	-6.65	127.65	132.30
1	AA	1232	U	C5-C4-O4	-6.65	121.91	125.90
1	AA	1347	G	C4-N9-C1'	-6.65	117.86	126.50
35	BB	354	A	C8-N9-C4	-6.65	103.14	105.80
35	BB	535	G	C4-C5-N7	-6.65	108.14	110.80
35	BB	790	U	C5'-C4'-O4'	6.65	117.08	109.10
35	BB	904	G	N1-C2-N3	-6.65	119.91	123.90
35	BB	1042	G	N9-C4-C5	6.65	108.06	105.40
35	BB	1854	A	O4'-C1'-N9	6.65	113.52	108.20
35	BB	2019	A	O4'-C1'-N9	6.65	113.52	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2450	A	C5-N7-C8	6.65	107.22	103.90
35	BB	2739	U	C2-N3-C4	-6.65	123.01	127.00
1	AA	720	C	N1-C2-O2	-6.65	114.91	118.90
1	AA	1367	C	N3-C4-N4	6.65	122.65	118.00
35	BB	346	A	O4'-C1'-N9	6.65	113.52	108.20
35	BB	2156	G	N3-C4-N9	-6.65	122.01	126.00
1	AA	123	U	P-O5'-C5'	-6.64	110.27	120.90
1	AA	409	U	N1-C2-O2	-6.64	118.15	122.80
1	AA	572	A	C5-C6-N6	-6.64	118.39	123.70
1	AA	839	C	C4-C5-C6	6.64	120.72	117.40
1	AA	861	G	N3-C4-C5	-6.64	125.28	128.60
35	BB	320	A	N7-C8-N9	6.64	117.12	113.80
35	BB	1111	A	C6-C5-N7	-6.64	127.65	132.30
35	BB	1441	G	C6-C5-N7	-6.64	126.41	130.40
35	BB	2313	C	C6-N1-C2	-6.64	117.64	120.30
35	BB	2864	G	C6-C5-N7	-6.64	126.41	130.40
35	BB	1300	G	N1-C6-O6	6.64	123.89	119.90
35	BB	1382	G	O4'-C1'-N9	6.64	113.51	108.20
35	BB	1559	U	O4'-C1'-N1	6.64	113.51	108.20
35	BB	2162	G	O4'-C4'-C3'	-6.64	97.36	104.00
35	BB	2466	C	C6-N1-C2	-6.64	117.64	120.30
35	BB	2667	C	C4-C5-C6	6.64	120.72	117.40
35	BB	2725	A	O4'-C1'-N9	6.64	113.52	108.20
38	BE	106	LYS	CB-CA-C	-6.64	97.11	110.40
1	AA	816	A	C4-C5-C6	6.64	120.32	117.00
35	BB	170	U	O4'-C1'-N1	6.64	113.51	108.20
35	BB	1189	A	O4'-C1'-N9	6.64	113.51	108.20
50	BQ	46	TYR	CB-CG-CD2	-6.64	117.02	121.00
1	AA	752	G	C5-C6-O6	-6.64	124.62	128.60
1	AA	875	U	N1-C2-N3	6.64	118.88	114.90
1	AA	889	A	C2-N3-C4	6.64	113.92	110.60
1	AA	1189	U	O4'-C1'-N1	6.64	113.51	108.20
26	B1	26	PHE	CB-CG-CD1	-6.64	116.15	120.80
35	BB	218	A	C8-N9-C4	-6.64	103.14	105.80
35	BB	436	C	O4'-C1'-N1	6.64	113.51	108.20
35	BB	1508	A	C5-C6-N1	6.64	121.02	117.70
35	BB	2429	G	N7-C8-N9	-6.64	109.78	113.10
47	BN	118	ARG	NE-CZ-NH2	-6.64	116.98	120.30
1	AA	128	G	C4'-C3'-C2'	-6.64	95.96	102.60
35	BB	172	A	C4-C5-C6	6.64	120.32	117.00
35	BB	276	U	C1'-O4'-C4'	6.64	115.21	109.90
35	BB	1097	U	C4-C5-C6	6.64	123.68	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1527	G	C6-N1-C2	6.64	129.08	125.10
35	BB	2077	A	C6-C5-N7	-6.64	127.65	132.30
1	AA	315	A	C5-C6-N6	-6.64	118.39	123.70
1	AA	529	G	C2-N3-C4	6.64	115.22	111.90
1	AA	1406	U	C4-C5-C6	6.64	123.68	119.70
35	BB	35	G	O4'-C1'-N9	6.64	113.51	108.20
35	BB	355	U	O4'-C1'-N1	6.64	113.51	108.20
35	BB	991	C	P-O3'-C3'	6.64	127.66	119.70
35	BB	2560	A	N3-C4-N9	-6.64	122.09	127.40
46	BM	6	ARG	NE-CZ-NH2	-6.64	116.98	120.30
1	AA	354	G	N3-C4-C5	-6.63	125.28	128.60
1	AA	437	U	P-O3'-C3'	6.63	127.66	119.70
1	AA	927	G	C6-C5-N7	-6.63	126.42	130.40
22	AV	48	C	O4'-C1'-N1	6.63	113.51	108.20
35	BB	466	A	C4'-C3'-C2'	-6.63	95.97	102.60
35	BB	473	G	N1-C2-N2	-6.63	110.23	116.20
35	BB	1434	A	C5-C6-N1	-6.63	114.38	117.70
35	BB	1903	G	N3-C4-C5	6.63	131.92	128.60
35	BB	2198	A	C5-C6-N1	-6.63	114.38	117.70
1	AA	916	U	O4'-C4'-C3'	-6.63	97.37	104.00
1	AA	1363	A	P-O3'-C3'	6.63	127.66	119.70
1	AA	1408	A	N7-C8-N9	-6.63	110.48	113.80
35	BB	160	A	C5-C6-N1	-6.63	114.38	117.70
35	BB	1907	G	C6-C5-N7	-6.63	126.42	130.40
35	BB	2233	U	N3-C4-O4	6.63	124.04	119.40
35	BB	2670	A	N9-C4-C5	-6.63	103.15	105.80
1	AA	537	G	C4-C5-C6	6.63	122.78	118.80
1	AA	1273	C	OP1-P-OP2	-6.63	109.65	119.60
22	AV	47	U	O4'-C1'-N1	6.63	113.50	108.20
35	BB	124	G	C4-C5-C6	6.63	122.78	118.80
35	BB	923	G	N1-C6-O6	6.63	123.88	119.90
35	BB	1861	G	C2-N3-C4	6.63	115.22	111.90
35	BB	1878	G	C6-C5-N7	-6.63	126.42	130.40
1	AA	601	G	O4'-C1'-N9	6.63	113.50	108.20
1	AA	1034	G	C8-N9-C4	-6.63	103.75	106.40
1	AA	1127	G	C5-C6-N1	-6.63	108.19	111.50
35	BB	20	C	N3-C4-N4	6.63	122.64	118.00
35	BB	169	G	C5-C6-N1	-6.63	108.19	111.50
35	BB	1203	U	OP1-P-OP2	-6.63	109.66	119.60
35	BB	2249	U	C5'-C4'-O4'	6.63	117.05	109.10
1	AA	504	C	P-O3'-C3'	-6.63	111.75	119.70
1	AA	904	U	N3-C2-O2	6.63	126.84	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	922	G	N9-C4-C5	-6.63	102.75	105.40
1	AA	1077	G	N1-C2-N3	-6.63	119.92	123.90
1	AA	1209	C	N1-C2-O2	6.63	122.88	118.90
1	AA	1489	G	N7-C8-N9	-6.63	109.79	113.10
35	BB	248	G	C2-N3-C4	6.63	115.21	111.90
35	BB	856	G	O4'-C1'-N9	6.63	113.50	108.20
35	BB	1112	G	N7-C8-N9	-6.63	109.79	113.10
35	BB	1259	G	C5-C6-N1	-6.63	108.19	111.50
35	BB	2239	G	N1-C6-O6	6.63	123.88	119.90
35	BB	2488	G	C6-C5-N7	-6.63	126.42	130.40
36	BC	263	ASP	CB-CG-OD1	-6.63	112.34	118.30
1	AA	1280	A	C4-C5-N7	-6.62	107.39	110.70
1	AA	1457	G	C5-C6-O6	-6.62	124.62	128.60
1	AA	1465	A	N1-C2-N3	6.62	132.61	129.30
35	BB	1644	C	C5-C4-N4	-6.62	115.56	120.20
35	BB	2170	A	C6-N1-C2	6.62	122.58	118.60
35	BB	2830	C	C2-N1-C1'	6.62	126.09	118.80
1	AA	437	U	O4'-C1'-N1	6.62	113.50	108.20
1	AA	558	G	C5-C6-N1	-6.62	108.19	111.50
1	AA	911	U	C5-C6-N1	-6.62	119.39	122.70
1	AA	1164	G	O4'-C1'-N9	6.62	113.50	108.20
1	AA	1232	U	O4'-C1'-N1	6.62	113.50	108.20
1	AA	1360	A	N1-C2-N3	6.62	132.61	129.30
1	AA	1443	C	C6-N1-C1'	-6.62	112.85	120.80
35	BB	195	A	O4'-C1'-N9	6.62	113.50	108.20
35	BB	598	U	N1-C2-O2	-6.62	118.16	122.80
35	BB	1046	A	C5'-C4'-C3'	-6.62	105.40	116.00
35	BB	1071	G	C2-N3-C4	6.62	115.21	111.90
35	BB	1143	A	C4-C5-N7	-6.62	107.39	110.70
35	BB	1272	A	O4'-C1'-N9	6.62	113.50	108.20
35	BB	2559	C	C5-C6-N1	6.62	124.31	121.00
35	BB	2641	G	C3'-C2'-C1'	-6.62	96.20	101.50
1	AA	349	A	C8-N9-C4	-6.62	103.15	105.80
1	AA	735	C	N3-C2-O2	6.62	126.53	121.90
1	AA	909	A	N3-C4-C5	-6.62	122.17	126.80
1	AA	1363	A	N9-C4-C5	-6.62	103.15	105.80
35	BB	175	G	C2-N3-C4	-6.62	108.59	111.90
35	BB	2326	C	C6-N1-C2	6.62	122.95	120.30
35	BB	2357	G	C8-N9-C4	-6.62	103.75	106.40
48	BO	9	ARG	NE-CZ-NH2	-6.62	116.99	120.30
1	AA	374	A	O4'-C1'-N9	6.62	113.50	108.20
1	AA	1083	U	O4'-C4'-C3'	-6.62	97.38	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	B1	47	ARG	NE-CZ-NH2	6.62	123.61	120.30
35	BB	384	A	C5-N7-C8	6.62	107.21	103.90
35	BB	1563	U	C5-C4-O4	-6.62	121.93	125.90
35	BB	2039	U	C5-C6-N1	6.62	126.01	122.70
1	AA	485	U	C5-C6-N1	-6.62	119.39	122.70
1	AA	566	G	N9-C4-C5	6.62	108.05	105.40
1	AA	1383	C	O4'-C1'-N1	6.62	113.50	108.20
35	BB	56	A	C4'-C3'-C2'	-6.62	95.98	102.60
35	BB	136	G	C4-C5-C6	6.62	122.77	118.80
35	BB	1434	A	N7-C8-N9	-6.62	110.49	113.80
35	BB	1684	G	N3-C2-N2	6.62	124.53	119.90
35	BB	1711	A	C2-N3-C4	-6.62	107.29	110.60
35	BB	1845	G	P-O5'-C5'	6.62	131.49	120.90
35	BB	2205	A	P-O5'-C5'	-6.62	110.31	120.90
1	AA	1067	A	P-O5'-C5'	6.62	131.49	120.90
34	BA	81	G	O4'-C1'-N9	6.62	113.49	108.20
35	BB	1884	G	N3-C2-N2	6.62	124.53	119.90
35	BB	2259	U	N1-C2-N3	6.62	118.87	114.90
35	BB	2352	A	C4-C5-N7	6.62	114.01	110.70
46	BM	1	MET	CG-SD-CE	-6.62	89.61	100.20
1	AA	253	A	C4-C5-C6	6.62	120.31	117.00
1	AA	380	G	N9-C4-C5	-6.62	102.75	105.40
1	AA	558	G	C1'-O4'-C4'	6.62	115.19	109.90
1	AA	855	U	N3-C4-O4	6.62	124.03	119.40
35	BB	749	A	C4-C5-C6	6.62	120.31	117.00
35	BB	1022	G	C3'-C2'-C1'	-6.62	96.21	101.50
35	BB	1271	G	P-O3'-C3'	-6.62	111.76	119.70
35	BB	1361	G	N7-C8-N9	6.62	116.41	113.10
35	BB	1700	A	N1-C6-N6	6.62	122.57	118.60
35	BB	1852	U	C2-N1-C1'	6.62	125.64	117.70
35	BB	2544	G	O4'-C1'-N9	6.62	113.49	108.20
1	AA	472	U	C5'-C4'-O4'	6.61	117.04	109.10
1	AA	1476	A	C4-C5-C6	6.61	120.31	117.00
1	AA	1502	A	C4-C5-N7	-6.61	107.39	110.70
22	AV	12	G	C5-C6-O6	-6.61	124.63	128.60
35	BB	2150	C	N3-C4-N4	6.61	122.63	118.00
38	BE	183	PHE	N-CA-CB	6.61	122.50	110.60
1	AA	446	G	C5-C6-N1	-6.61	108.19	111.50
1	AA	681	A	C4-C5-C6	6.61	120.31	117.00
1	AA	840	C	O4'-C1'-N1	6.61	113.49	108.20
1	AA	1454	G	P-O5'-C5'	6.61	131.48	120.90
35	BB	409	G	N3-C4-C5	-6.61	125.29	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	802	A	N1-C6-N6	6.61	122.57	118.60
35	BB	845	A	C6-C5-N7	-6.61	127.67	132.30
35	BB	1533	C	N3-C4-N4	6.61	122.63	118.00
35	BB	2748	A	C3'-C2'-C1'	-6.61	96.21	101.50
53	BT	92	ASN	N-CA-CB	6.61	122.50	110.60
1	AA	197	A	C5-C6-N1	-6.61	114.39	117.70
1	AA	564	C	N3-C4-N4	6.61	122.63	118.00
1	AA	592	G	O4'-C1'-N9	6.61	113.49	108.20
1	AA	654	G	C5-C6-O6	-6.61	124.63	128.60
1	AA	747	A	C3'-C2'-C1'	-6.61	96.21	101.50
1	AA	834	U	O4'-C1'-N1	6.61	113.49	108.20
1	AA	1144	G	N1-C2-N3	-6.61	119.93	123.90
1	AA	1269	A	O4'-C1'-N9	6.61	113.49	108.20
35	BB	164	C	C6-N1-C2	-6.61	117.66	120.30
35	BB	265	A	N1-C2-N3	-6.61	125.99	129.30
35	BB	825	A	O4'-C1'-N9	6.61	113.49	108.20
35	BB	1561	C	C4-C5-C6	6.61	120.70	117.40
35	BB	1744	A	C4-C5-C6	6.61	120.31	117.00
35	BB	1757	A	N9-C4-C5	-6.61	103.16	105.80
35	BB	1776	G	C4-C5-C6	6.61	122.77	118.80
35	BB	2286	G	C5-C6-O6	-6.61	124.63	128.60
35	BB	2865	U	C4'-C3'-C2'	-6.61	95.99	102.60
1	AA	447	G	C5-C6-N1	-6.61	108.20	111.50
1	AA	621	A	C5'-C4'-O4'	-6.61	101.17	109.10
1	AA	1234	C	N3-C4-N4	6.61	122.63	118.00
35	BB	518	G	C5-C6-N1	6.61	114.81	111.50
35	BB	981	A	C8-N9-C4	6.61	108.44	105.80
1	AA	644	U	N1-C2-N3	6.61	118.86	114.90
1	AA	820	U	C2-N3-C4	6.61	130.97	127.00
1	AA	821	G	C5-N7-C8	6.61	107.60	104.30
1	AA	840	C	C5-C6-N1	6.61	124.30	121.00
1	AA	843	U	C1'-O4'-C4'	-6.61	104.61	109.90
1	AA	1334	G	C4-C5-C6	6.61	122.76	118.80
1	AA	1523	G	C5-N7-C8	6.61	107.60	104.30
34	BA	81	G	N1-C6-O6	6.61	123.86	119.90
35	BB	279	A	C5-N7-C8	-6.61	100.60	103.90
35	BB	680	C	C4-C5-C6	-6.61	114.10	117.40
35	BB	810	U	N3-C2-O2	-6.61	117.58	122.20
35	BB	1168	G	P-O3'-C3'	-6.61	111.77	119.70
35	BB	1268	A	N7-C8-N9	-6.61	110.50	113.80
35	BB	1479	G	N1-C2-N3	-6.61	119.94	123.90
35	BB	1679	A	O4'-C1'-N9	6.61	113.49	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	2621	G	N1-C6-O6	6.61	123.86	119.90
35	BB	2803	G	C8-N9-C1'	6.61	135.59	127.00
1	AA	81	A	C4-C5-C6	6.61	120.30	117.00
1	AA	262	A	C1'-O4'-C4'	-6.61	104.61	109.90
1	AA	318	G	N9-C4-C5	-6.61	102.76	105.40
1	AA	348	G	O4'-C1'-N9	6.61	113.48	108.20
1	AA	665	A	N7-C8-N9	-6.61	110.50	113.80
1	AA	829	G	C1'-O4'-C4'	-6.61	104.62	109.90
1	AA	1004	A	N1-C2-N3	6.61	132.60	129.30
1	AA	1008	U	C5-C4-O4	-6.61	121.94	125.90
1	AA	1143	G	C4-C5-C6	6.61	122.76	118.80
1	AA	1346	A	C1'-O4'-C4'	6.61	115.18	109.90
35	BB	473	G	C4-C5-C6	6.61	122.76	118.80
35	BB	706	A	C4-C5-N7	6.61	114.00	110.70
35	BB	1649	G	N3-C4-C5	-6.61	125.30	128.60
35	BB	2035	G	C6-C5-N7	-6.61	126.44	130.40
35	BB	2288	A	C5-N7-C8	6.61	107.20	103.90
50	BQ	63	ARG	NE-CZ-NH1	6.61	123.60	120.30
1	AA	452	A	C8-N9-C4	-6.60	103.16	105.80
1	AA	1069	C	N3-C4-C5	-6.60	119.26	121.90
35	BB	62	U	C4'-C3'-C2'	-6.60	96.00	102.60
35	BB	429	A	O4'-C1'-N9	6.60	113.48	108.20
35	BB	1778	U	C2-N3-C4	-6.60	123.04	127.00
1	AA	730	G	N3-C4-C5	-6.60	125.30	128.60
1	AA	973	G	N3-C4-C5	-6.60	125.30	128.60
35	BB	172	A	C5-C6-N1	-6.60	114.40	117.70
35	BB	496	G	C5-C6-O6	-6.60	124.64	128.60
35	BB	1250	G	N9-C4-C5	6.60	108.04	105.40
35	BB	2455	G	C4-C5-N7	-6.60	108.16	110.80
1	AA	68	G	C5-C6-N1	6.60	114.80	111.50
1	AA	476	U	O4'-C1'-N1	6.60	113.48	108.20
35	BB	37	C	N3-C4-C5	-6.60	119.26	121.90
35	BB	1842	G	C6-N1-C2	6.60	129.06	125.10
35	BB	2183	A	C5-C6-N6	-6.60	118.42	123.70
35	BB	2302	U	C2-N3-C4	6.60	130.96	127.00
35	BB	2336	A	N1-C6-N6	6.60	122.56	118.60
35	BB	2694	G	O4'-C1'-N9	6.60	113.48	108.20
1	AA	65	A	O4'-C1'-N9	6.60	113.48	108.20
1	AA	132	C	N3-C4-N4	6.60	122.62	118.00
1	AA	202	G	N1-C2-N3	-6.60	119.94	123.90
1	AA	1054	C	C2-N1-C1'	6.60	126.06	118.80
35	BB	43	G	C4-C5-C6	6.60	122.76	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	788	A	C4-C5-N7	-6.60	107.40	110.70
35	BB	2770	G	C5-N7-C8	-6.60	101.00	104.30
1	AA	105	G	O4'-C1'-N9	6.60	113.48	108.20
1	AA	220	G	O4'-C4'-C3'	-6.60	97.40	104.00
1	AA	411	A	C5-N7-C8	6.60	107.20	103.90
1	AA	646	G	C1'-O4'-C4'	-6.60	104.62	109.90
1	AA	904	U	P-O5'-C5'	6.60	131.46	120.90
1	AA	947	G	N1-C2-N2	-6.60	110.26	116.20
1	AA	1275	A	C4-C5-C6	6.60	120.30	117.00
2	AB	49	PHE	CB-CG-CD2	6.60	125.42	120.80
19	AS	79	TYR	CG-CD2-CE2	-6.60	116.02	121.30
35	BB	526	A	C5-C6-N6	-6.60	118.42	123.70
35	BB	2293	G	C4-C5-N7	6.60	113.44	110.80
1	AA	134	G	C8-N9-C4	6.60	109.04	106.40
1	AA	710	G	N9-C4-C5	6.60	108.04	105.40
1	AA	910	C	O4'-C1'-N1	6.60	113.48	108.20
1	AA	1082	A	C5-C6-N1	-6.60	114.40	117.70
1	AA	1096	C	N3-C4-C5	6.60	124.54	121.90
1	AA	1455	G	C4-C5-C6	6.60	122.76	118.80
35	BB	317	G	N9-C4-C5	-6.60	102.76	105.40
1	AA	202	G	C2-N3-C4	6.59	115.20	111.90
1	AA	1016	A	C6-C5-N7	-6.59	127.68	132.30
1	AA	1213	A	C5-N7-C8	6.59	107.20	103.90
34	BA	61	G	N3-C2-N2	6.59	124.52	119.90
35	BB	72	U	N3-C4-C5	-6.59	110.64	114.60
35	BB	291	G	N3-C2-N2	6.59	124.52	119.90
35	BB	416	U	N1-C2-O2	6.59	127.42	122.80
35	BB	843	G	C5'-C4'-O4'	6.59	117.01	109.10
35	BB	1156	A	C4-C5-N7	6.59	114.00	110.70
35	BB	1710	G	C5-C6-N1	-6.59	108.20	111.50
35	BB	1810	A	C5-C6-N1	-6.59	114.40	117.70
35	BB	1865	U	N1-C2-O2	-6.59	118.18	122.80
35	BB	2299	U	O4'-C1'-N1	6.59	113.47	108.20
35	BB	2553	G	N3-C2-N2	6.59	124.52	119.90
35	BB	2772	C	N3-C4-C5	-6.59	119.26	121.90
52	BS	53	SER	N-CA-C	-6.59	93.19	111.00
1	AA	359	G	C5-C6-O6	-6.59	124.64	128.60
1	AA	411	A	C6-N1-C2	6.59	122.56	118.60
34	BA	49	C	O4'-C1'-N1	6.59	113.47	108.20
1	AA	319	G	C4-C5-C6	6.59	122.75	118.80
1	AA	735	C	N3-C4-C5	6.59	124.54	121.90
1	AA	1356	G	C6-C5-N7	-6.59	126.45	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AV	40	U	O4'-C1'-N1	6.59	113.47	108.20
34	BA	5	U	N3-C4-O4	6.59	124.01	119.40
35	BB	810	U	C5-C6-N1	-6.59	119.41	122.70
1	AA	205	A	N9-C4-C5	6.59	108.44	105.80
1	AA	592	G	C6-C5-N7	-6.59	126.45	130.40
1	AA	848	C	C2-N1-C1'	6.59	126.05	118.80
14	AN	64	ARG	NE-CZ-NH1	-6.59	117.00	120.30
30	B5	53	ARG	NE-CZ-NH1	6.59	123.59	120.30
35	BB	287	G	C5-N7-C8	-6.59	101.00	104.30
35	BB	544	C	N3-C4-C5	-6.59	119.26	121.90
35	BB	1126	A	N7-C8-N9	-6.59	110.51	113.80
35	BB	1229	C	C5-C4-N4	-6.59	115.59	120.20
35	BB	1364	G	P-O5'-C5'	6.59	131.44	120.90
35	BB	1529	G	N1-C6-O6	6.59	123.85	119.90
35	BB	1769	U	N3-C2-O2	6.59	126.81	122.20
35	BB	2033	A	N1-C6-N6	6.59	122.55	118.60
35	BB	2459	A	C5-C6-N1	-6.59	114.41	117.70
1	AA	1407	C	O4'-C1'-N1	6.59	113.47	108.20
35	BB	273	G	C4-C5-N7	-6.59	108.17	110.80
35	BB	2460	U	P-O3'-C3'	-6.59	111.79	119.70
1	AA	41	G	C6-N1-C2	6.59	129.05	125.10
1	AA	278	G	N3-C4-C5	-6.59	125.31	128.60
1	AA	297	G	N1-C2-N2	-6.59	110.27	116.20
1	AA	517	G	O4'-C1'-N9	6.59	113.47	108.20
1	AA	682	G	C4-C5-C6	6.59	122.75	118.80
1	AA	1169	A	C6-N1-C2	6.59	122.55	118.60
1	AA	1336	C	C4-C5-C6	6.59	120.69	117.40
34	BA	52	A	C6-C5-N7	-6.59	127.69	132.30
34	BA	70	C	N3-C4-N4	6.59	122.61	118.00
35	BB	30	G	N3-C2-N2	6.59	124.51	119.90
35	BB	168	G	C4-C5-C6	6.59	122.75	118.80
35	BB	938	G	C1'-O4'-C4'	6.59	115.17	109.90
35	BB	2602	A	C5-C6-N6	-6.59	118.43	123.70
54	BU	80	ASP	CB-CG-OD1	6.59	124.23	118.30
1	AA	282	A	N1-C6-N6	6.58	122.55	118.60
1	AA	288	A	C5-C6-N1	-6.58	114.41	117.70
1	AA	1491	G	C5-C6-N1	-6.58	108.21	111.50
1	AA	1519	A	C2-N3-C4	6.58	113.89	110.60
35	BB	176	A	C5-C6-N1	-6.58	114.41	117.70
35	BB	1412	U	N1-C2-N3	6.58	118.85	114.90
35	BB	1452	G	O4'-C1'-N9	6.58	113.47	108.20
35	BB	1844	C	C4-C5-C6	-6.58	114.11	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2682	A	P-O3'-C3'	-6.58	111.80	119.70
1	AA	563	A	N3-C4-C5	-6.58	122.19	126.80
1	AA	1095	U	P-O5'-C5'	-6.58	110.37	120.90
22	AV	45	G	C5-C6-O6	-6.58	124.65	128.60
34	BA	12	C	P-O3'-C3'	6.58	127.60	119.70
35	BB	201	C	C1'-O4'-C4'	6.58	115.17	109.90
35	BB	635	C	C6-N1-C2	-6.58	117.67	120.30
35	BB	1531	C	P-O3'-C3'	6.58	127.60	119.70
35	BB	1605	C	C6-N1-C2	-6.58	117.67	120.30
35	BB	2741	A	C2-N3-C4	-6.58	107.31	110.60
35	BB	2746	U	C6-N1-C2	-6.58	117.05	121.00
1	AA	377	G	N3-C4-C5	6.58	131.89	128.60
1	AA	837	U	C1'-O4'-C4'	6.58	115.17	109.90
1	AA	1179	A	C5-C6-N6	-6.58	118.44	123.70
1	AA	1307	U	O4'-C1'-N1	6.58	113.47	108.20
34	BA	12	C	C5-C4-N4	-6.58	115.59	120.20
34	BA	75	G	C8-N9-C4	6.58	109.03	106.40
35	BB	524	G	O4'-C1'-N9	6.58	113.47	108.20
35	BB	631	A	C5-N7-C8	6.58	107.19	103.90
35	BB	1134	A	C4-C5-N7	-6.58	107.41	110.70
35	BB	1138	G	C5-N7-C8	6.58	107.59	104.30
35	BB	1636	U	C6-N1-C2	-6.58	117.05	121.00
35	BB	2193	G	P-O3'-C3'	-6.58	111.80	119.70
35	BB	2216	G	O4'-C1'-N9	6.58	113.47	108.20
35	BB	2768	U	C4'-C3'-C2'	-6.58	96.02	102.60
1	AA	858	G	C6-C5-N7	-6.58	126.45	130.40
1	AA	1318	A	C2-N3-C4	6.58	113.89	110.60
35	BB	804	A	O4'-C1'-N9	6.58	113.46	108.20
35	BB	1038	G	O4'-C1'-N9	6.58	113.46	108.20
35	BB	1984	G	C6-C5-N7	-6.58	126.45	130.40
1	AA	41	G	C4'-C3'-C2'	-6.58	96.02	102.60
1	AA	120	A	N1-C2-N3	6.58	132.59	129.30
1	AA	337	G	N3-C2-N2	6.58	124.50	119.90
1	AA	1094	G	N3-C2-N2	6.58	124.50	119.90
1	AA	1145	A	O4'-C1'-N9	6.58	113.46	108.20
1	AA	1274	A	C6-N1-C2	6.58	122.55	118.60
35	BB	8	C	N1-C2-O2	-6.58	114.95	118.90
35	BB	1019	U	N3-C4-C5	-6.58	110.65	114.60
35	BB	1264	A	N1-C2-N3	-6.58	126.01	129.30
35	BB	1949	G	C6-C5-N7	-6.58	126.45	130.40
35	BB	1998	A	C4-C5-N7	-6.58	107.41	110.70
35	BB	2234	G	N3-C2-N2	6.58	124.50	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2305	U	C6-N1-C2	-6.58	117.05	121.00
45	BL	126	ARG	NH1-CZ-NH2	-6.58	112.16	119.40
1	AA	285	C	P-O3'-C3'	-6.58	111.81	119.70
1	AA	572	A	N7-C8-N9	-6.58	110.51	113.80
34	BA	54	G	O4'-C1'-N9	6.58	113.46	108.20
35	BB	11	C	C5'-C4'-C3'	6.58	126.52	116.00
35	BB	364	C	C5-C6-N1	6.58	124.29	121.00
35	BB	1649	G	N1-C2-N3	-6.58	119.95	123.90
35	BB	1855	U	O4'-C1'-N1	6.58	113.46	108.20
1	AA	153	C	C1'-O4'-C4'	6.58	115.16	109.90
1	AA	377	G	N3-C4-N9	-6.58	122.06	126.00
1	AA	377	G	O4'-C1'-N9	6.58	113.46	108.20
1	AA	963	G	C5-C6-O6	-6.58	124.65	128.60
35	BB	347	A	C8-N9-C4	-6.58	103.17	105.80
35	BB	467	G	C5-C6-O6	-6.58	124.66	128.60
35	BB	573	U	C6-N1-C2	-6.58	117.05	121.00
35	BB	1190	G	O4'-C1'-N9	6.58	113.46	108.20
35	BB	1254	A	C5-N7-C8	6.58	107.19	103.90
35	BB	1320	C	C5-C6-N1	6.58	124.29	121.00
35	BB	1369	G	C6-C5-N7	-6.58	126.45	130.40
35	BB	1371	G	C8-N9-C1'	6.58	135.55	127.00
35	BB	2072	C	O4'-C1'-N1	6.58	113.46	108.20
35	BB	2902	C	OP2-P-O3'	6.58	119.67	105.20
1	AA	587	G	O4'-C1'-N9	6.57	113.46	108.20
1	AA	936	C	C5-C4-N4	-6.57	115.60	120.20
35	BB	386	G	C4-C5-N7	6.57	113.43	110.80
35	BB	858	G	C6-N1-C2	6.57	129.04	125.10
35	BB	991	C	C6-N1-C2	6.57	122.93	120.30
35	BB	1065	U	C5-C6-N1	-6.57	119.41	122.70
35	BB	1143	A	C5'-C4'-O4'	6.57	116.99	109.10
35	BB	1734	G	N7-C8-N9	-6.57	109.81	113.10
35	BB	1752	C	N3-C4-N4	6.57	122.60	118.00
35	BB	2047	C	C5-C4-N4	-6.57	115.60	120.20
54	BU	41	VAL	N-CA-CB	6.57	125.96	111.50
1	AA	50	A	C6-N1-C2	6.57	122.54	118.60
1	AA	243	A	C5-C6-N1	-6.57	114.41	117.70
1	AA	366	A	P-O3'-C3'	6.57	127.59	119.70
1	AA	601	G	C5-C6-N1	6.57	114.79	111.50
1	AA	1219	A	C2-N3-C4	6.57	113.89	110.60
35	BB	2674	G	C2-N3-C4	6.57	115.19	111.90
1	AA	745	G	C4-N9-C1'	-6.57	117.96	126.50
34	BA	69	G	C5-C6-O6	-6.57	124.66	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	89	A	O4'-C1'-N9	6.57	113.46	108.20
35	BB	668	A	N3-C4-C5	-6.57	122.20	126.80
35	BB	2168	G	C4-C5-N7	6.57	113.43	110.80
36	BC	215	VAL	CG1-CB-CG2	-6.57	100.39	110.90
39	BF	9	ASP	N-CA-CB	6.57	122.42	110.60
49	BP	97	TYR	CG-CD1-CE1	-6.57	116.04	121.30
50	BQ	87	VAL	CA-CB-CG1	-6.57	101.05	110.90
1	AA	556	C	N3-C4-N4	6.57	122.60	118.00
35	BB	149	A	C1'-O4'-C4'	6.57	115.16	109.90
35	BB	742	A	C4-C5-N7	-6.57	107.42	110.70
35	BB	1651	G	C2-N3-C4	6.57	115.18	111.90
35	BB	1769	U	N1-C2-O2	-6.57	118.20	122.80
35	BB	2269	G	P-O5'-C5'	-6.57	110.39	120.90
35	BB	2721	A	C5-C6-N1	-6.57	114.42	117.70
1	AA	136	C	C1'-O4'-C4'	-6.57	104.65	109.90
1	AA	408	A	N1-C2-N3	6.57	132.58	129.30
1	AA	444	G	N1-C6-O6	6.57	123.84	119.90
1	AA	1080	A	O4'-C1'-N9	6.57	113.45	108.20
17	AQ	33	TYR	N-CA-CB	6.57	122.42	110.60
23	AX	19	A	O4'-C1'-N9	6.57	113.45	108.20
35	BB	75	G	N3-C2-N2	6.57	124.50	119.90
35	BB	1297	C	C6-N1-C2	-6.57	117.67	120.30
1	AA	966	G	N3-C2-N2	6.57	124.50	119.90
35	BB	107	G	C2-N3-C4	6.57	115.18	111.90
35	BB	620	G	C5-C6-O6	-6.57	124.66	128.60
35	BB	800	A	N9-C4-C5	-6.57	103.17	105.80
35	BB	1127	A	N9-C4-C5	-6.57	103.17	105.80
35	BB	1545	A	N3-C4-C5	-6.57	122.20	126.80
35	BB	1595	C	O4'-C4'-C3'	-6.57	97.44	104.00
35	BB	1681	G	C4-C5-C6	6.57	122.74	118.80
35	BB	1860	G	N1-C6-O6	6.57	123.84	119.90
35	BB	2076	U	C3'-C2'-C1'	-6.57	96.25	101.50
35	BB	2218	G	N7-C8-N9	-6.57	109.82	113.10
35	BB	2627	G	C4-C5-C6	6.57	122.74	118.80
38	BE	91	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	AA	1267	C	C4-C5-C6	6.56	120.68	117.40
35	BB	949	G	C6-C5-N7	-6.56	126.46	130.40
1	AA	118	U	C6-N1-C2	-6.56	117.06	121.00
1	AA	1012	A	C6-N1-C2	-6.56	114.66	118.60
35	BB	98	G	O4'-C1'-N9	6.56	113.45	108.20
35	BB	191	A	N9-C4-C5	6.56	108.42	105.80
35	BB	535	G	N3-C4-C5	-6.56	125.32	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	874	G	N7-C8-N9	6.56	116.38	113.10
35	BB	1224	U	C5-C4-O4	-6.56	121.96	125.90
35	BB	1559	U	N3-C4-O4	6.56	123.99	119.40
35	BB	1608	A	N1-C6-N6	6.56	122.54	118.60
40	BG	93	TYR	CB-CG-CD2	6.56	124.94	121.00
1	AA	955	U	O4'-C1'-N1	6.56	113.45	108.20
35	BB	106	C	O4'-C4'-C3'	-6.56	97.44	104.00
35	BB	1507	C	O4'-C1'-N1	6.56	113.45	108.20
35	BB	1696	G	C5-C6-N1	6.56	114.78	111.50
35	BB	2448	A	C5-C6-N6	-6.56	118.45	123.70
1	AA	908	A	C4'-C3'-C2'	-6.56	96.04	102.60
1	AA	1154	G	C5-C6-N1	-6.56	108.22	111.50
1	AA	1167	A	C5-C6-N1	-6.56	114.42	117.70
35	BB	298	G	N1-C2-N3	-6.56	119.96	123.90
35	BB	311	A	N9-C4-C5	6.56	108.42	105.80
35	BB	366	C	C4'-C3'-C2'	-6.56	96.04	102.60
35	BB	422	A	C6-C5-N7	-6.56	127.71	132.30
35	BB	763	G	C8-N9-C1'	6.56	135.53	127.00
35	BB	1215	G	N7-C8-N9	-6.56	109.82	113.10
35	BB	1406	U	N3-C4-O4	6.56	123.99	119.40
1	AA	385	C	N1-C2-O2	-6.56	114.97	118.90
1	AA	733	G	C4'-C3'-C2'	-6.56	96.04	102.60
1	AA	1009	U	N3-C2-O2	-6.56	117.61	122.20
3	AC	71	ARG	NE-CZ-NH2	-6.56	117.02	120.30
5	AE	44	ARG	N-CA-CB	6.56	122.41	110.60
35	BB	950	G	O4'-C4'-C3'	-6.56	97.44	104.00
35	BB	983	A	C3'-C2'-C1'	6.56	106.75	101.50
35	BB	1449	G	C4'-C3'-C2'	-6.56	96.04	102.60
35	BB	1864	U	P-O3'-C3'	6.56	127.57	119.70
35	BB	1930	G	N3-C4-C5	6.56	131.88	128.60
35	BB	2108	A	O4'-C1'-N9	6.56	113.45	108.20
35	BB	2225	A	C8-N9-C4	-6.56	103.18	105.80
35	BB	2658	C	O4'-C1'-N1	6.56	113.45	108.20
35	BB	2765	A	C5-C6-N1	-6.56	114.42	117.70
1	AA	951	G	P-O5'-C5'	-6.56	110.41	120.90
35	BB	1902	C	O4'-C1'-N1	6.56	113.44	108.20
35	BB	2108	A	N1-C2-N3	6.56	132.58	129.30
1	AA	542	G	C5-C6-N1	-6.55	108.22	111.50
1	AA	992	U	C5-C4-O4	-6.55	121.97	125.90
23	AX	16	C	O4'-C1'-N1	6.55	113.44	108.20
35	BB	320	A	N1-C6-N6	6.55	122.53	118.60
35	BB	1960	A	C1'-O4'-C4'	6.55	115.14	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2137	U	N3-C2-O2	6.55	126.79	122.20
35	BB	180	G	C2-N3-C4	6.55	115.18	111.90
35	BB	2891	U	O4'-C1'-N1	6.55	113.44	108.20
20	AT	24	ARG	NE-CZ-NH1	-6.55	117.02	120.30
35	BB	1632	A	O4'-C1'-N9	6.55	113.44	108.20
35	BB	2131	U	C6-N1-C2	-6.55	117.07	121.00
35	BB	2286	G	N3-C4-C5	-6.55	125.33	128.60
35	BB	2385	C	O4'-C1'-N1	6.55	113.44	108.20
35	BB	27	G	C4-C5-C6	6.55	122.73	118.80
35	BB	123	G	N7-C8-N9	-6.55	109.83	113.10
35	BB	414	C	N3-C4-C5	-6.55	119.28	121.90
35	BB	445	C	C2-N3-C4	6.55	123.17	119.90
35	BB	888	C	C2-N3-C4	6.55	123.17	119.90
35	BB	1032	A	C5-C6-N1	-6.55	114.42	117.70
35	BB	1210	G	N9-C4-C5	6.55	108.02	105.40
35	BB	1294	U	N1-C2-O2	-6.55	118.22	122.80
35	BB	1608	A	C5-N7-C8	-6.55	100.62	103.90
1	AA	382	A	C5-C6-N6	-6.55	118.46	123.70
35	BB	493	G	C5-C6-O6	-6.55	124.67	128.60
35	BB	1011	G	N1-C6-O6	6.55	123.83	119.90
35	BB	2176	A	C4-C5-N7	-6.55	107.43	110.70
1	AA	863	U	O3'-P-O5'	-6.55	91.56	104.00
1	AA	1401	G	O4'-C1'-N9	6.55	113.44	108.20
1	AA	1459	G	N3-C2-N2	6.55	124.48	119.90
34	BA	105	G	N1-C2-N3	-6.55	119.97	123.90
35	BB	237	C	N3-C4-C5	-6.55	119.28	121.90
35	BB	1413	A	C4-C5-N7	-6.55	107.43	110.70
35	BB	1576	U	C4'-C3'-C2'	-6.55	96.05	102.60
35	BB	1807	G	C2-N3-C4	-6.55	108.63	111.90
35	BB	2146	C	C6-N1-C2	-6.55	117.68	120.30
35	BB	2275	C	N1-C2-N3	-6.55	114.62	119.20
35	BB	2846	G	C5-C6-N1	-6.55	108.23	111.50
35	BB	801	G	C2-N3-C4	-6.54	108.63	111.90
35	BB	937	C	P-O5'-C5'	6.54	131.37	120.90
35	BB	1389	G	C4-C5-C6	6.54	122.73	118.80
35	BB	2174	C	N3-C4-C5	-6.54	119.28	121.90
35	BB	2250	G	O4'-C1'-N9	6.54	113.44	108.20
1	AA	183	C	C2-N3-C4	6.54	123.17	119.90
1	AA	289	G	N3-C4-C5	-6.54	125.33	128.60
1	AA	576	C	C6-N1-C2	-6.54	117.68	120.30
1	AA	907	A	C4-C5-C6	6.54	120.27	117.00
1	AA	1167	A	C2-N3-C4	-6.54	107.33	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1202	U	C6-N1-C2	-6.54	117.07	121.00
1	AA	1466	C	N3-C4-N4	6.54	122.58	118.00
35	BB	891	G	N1-C2-N3	-6.54	119.97	123.90
35	BB	1773	A	C4-C5-N7	-6.54	107.43	110.70
35	BB	1867	G	O4'-C1'-N9	6.54	113.43	108.20
35	BB	2209	G	C6-C5-N7	-6.54	126.47	130.40
35	BB	2801	G	N3-C4-C5	-6.54	125.33	128.60
35	BB	2848	G	C6-N1-C2	6.54	129.03	125.10
1	AA	72	A	C1'-O4'-C4'	-6.54	104.67	109.90
1	AA	1266	G	N7-C8-N9	6.54	116.37	113.10
1	AA	1270	G	N3-C4-C5	-6.54	125.33	128.60
1	AA	1493	A	C5-N7-C8	6.54	107.17	103.90
35	BB	155	A	C4-C5-C6	6.54	120.27	117.00
35	BB	261	G	N7-C8-N9	6.54	116.37	113.10
35	BB	968	C	C5-C4-N4	-6.54	115.62	120.20
35	BB	1622	G	C4-C5-C6	6.54	122.72	118.80
35	BB	2033	A	C4-C5-C6	6.54	120.27	117.00
35	BB	2360	G	N1-C2-N3	-6.54	119.97	123.90
1	AA	656	G	N1-C2-N3	-6.54	119.98	123.90
1	AA	1068	G	N3-C4-N9	6.54	129.92	126.00
35	BB	1051	G	O4'-C1'-N9	6.54	113.43	108.20
35	BB	1595	C	O4'-C1'-N1	6.54	113.43	108.20
1	AA	326	G	O4'-C1'-N9	6.54	113.43	108.20
35	BB	41	C	C4-C5-C6	6.54	120.67	117.40
35	BB	186	G	O4'-C1'-N9	6.54	113.43	108.20
35	BB	619	G	N3-C2-N2	6.54	124.48	119.90
35	BB	751	A	C4-C5-C6	6.54	120.27	117.00
35	BB	1055	G	N1-C6-O6	6.54	123.82	119.90
35	BB	1804	C	C5-C4-N4	-6.54	115.62	120.20
35	BB	1999	C	C2-N3-C4	6.54	123.17	119.90
35	BB	2664	G	C6-C5-N7	-6.54	126.48	130.40
1	AA	429	U	C5-C4-O4	-6.54	121.98	125.90
11	AK	110	THR	N-CA-CB	6.54	122.72	110.30
35	BB	597	G	N3-C4-C5	-6.54	125.33	128.60
35	BB	785	G	C6-N1-C2	6.54	129.02	125.10
35	BB	807	U	C4-C5-C6	6.54	123.62	119.70
35	BB	2018	G	N9-C4-C5	6.54	108.02	105.40
35	BB	2235	G	C6-C5-N7	-6.54	126.48	130.40
35	BB	2882	A	C4-C5-C6	6.54	120.27	117.00
1	AA	669	G	N3-C4-C5	-6.54	125.33	128.60
1	AA	1476	A	N7-C8-N9	-6.54	110.53	113.80
35	BB	116	C	C4-C5-C6	6.54	120.67	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	189	G	N1-C6-O6	6.54	123.82	119.90
35	BB	212	G	C5-N7-C8	6.54	107.57	104.30
35	BB	572	A	C5-C6-N1	-6.54	114.43	117.70
35	BB	893	C	P-O3'-C3'	-6.54	111.86	119.70
35	BB	1393	A	C4-C5-C6	6.54	120.27	117.00
35	BB	1424	G	C6-N1-C2	6.54	129.02	125.10
35	BB	1993	U	C2-N3-C4	-6.54	123.08	127.00
35	BB	2342	C	N1-C2-N3	-6.54	114.62	119.20
35	BB	2408	U	N1-C2-N3	6.54	118.82	114.90
35	BB	2692	G	O4'-C1'-N9	6.54	113.43	108.20
1	AA	195	A	O4'-C1'-N9	6.53	113.43	108.20
1	AA	899	C	C2-N3-C4	6.53	123.17	119.90
34	BA	15	A	C2-N3-C4	-6.53	107.33	110.60
35	BB	1039	A	O4'-C1'-N9	6.53	113.43	108.20
35	BB	1096	A	N1-C2-N3	-6.53	126.03	129.30
35	BB	1223	G	N7-C8-N9	-6.53	109.83	113.10
35	BB	1330	C	C6-N1-C2	-6.53	117.69	120.30
35	BB	1611	C	P-O5'-C5'	-6.53	110.45	120.90
35	BB	2441	U	O4'-C1'-N1	6.53	113.43	108.20
35	BB	2714	G	C5-N7-C8	6.53	107.57	104.30
1	AA	35	G	C2-N3-C4	6.53	115.17	111.90
1	AA	833	G	C5-C6-N1	-6.53	108.23	111.50
22	AV	39	G	N3-C4-N9	6.53	129.92	126.00
34	BA	44	G	O4'-C1'-N9	6.53	113.42	108.20
35	BB	329	G	C6-C5-N7	-6.53	126.48	130.40
35	BB	818	G	C4-N9-C1'	6.53	134.99	126.50
35	BB	1026	G	N1-C2-N3	-6.53	119.98	123.90
35	BB	2204	G	N9-C4-C5	-6.53	102.79	105.40
35	BB	2351	G	N7-C8-N9	-6.53	109.83	113.10
34	BA	99	A	C5-N7-C8	6.53	107.17	103.90
35	BB	319	G	P-O3'-C3'	-6.53	111.87	119.70
35	BB	952	G	C4-N9-C1'	-6.53	118.01	126.50
35	BB	1116	G	C5'-C4'-O4'	6.53	116.93	109.10
35	BB	1419	A	C5-C6-N1	-6.53	114.44	117.70
35	BB	1455	G	C2-N3-C4	-6.53	108.64	111.90
35	BB	1489	C	C5-C6-N1	6.53	124.26	121.00
35	BB	1715	G	C4-C5-C6	6.53	122.72	118.80
1	AA	384	G	C6-C5-N7	-6.53	126.48	130.40
1	AA	885	G	C4-C5-C6	6.53	122.72	118.80
1	AA	1128	C	C4'-C3'-C2'	-6.53	96.07	102.60
35	BB	124	G	N3-C4-C5	-6.53	125.34	128.60
35	BB	156	A	C6-C5-N7	-6.53	127.73	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1390	U	C5-C4-O4	6.53	129.82	125.90
35	BB	1467	U	P-O3'-C3'	-6.53	111.87	119.70
35	BB	1593	A	O4'-C1'-N9	6.53	113.42	108.20
35	BB	1651	G	N1-C2-N3	-6.53	119.98	123.90
35	BB	1746	A	C5-C6-N1	-6.53	114.44	117.70
35	BB	1930	G	N1-C6-O6	6.53	123.82	119.90
35	BB	2451	A	C4-C5-C6	6.53	120.26	117.00
35	BB	2856	A	C1'-O4'-C4'	-6.53	104.68	109.90
51	BR	83	TYR	N-CA-CB	6.53	122.35	110.60
1	AA	523	A	C4-C5-N7	-6.53	107.44	110.70
1	AA	868	C	C2-N3-C4	-6.53	116.64	119.90
1	AA	1023	U	C1'-O4'-C4'	6.53	115.12	109.90
35	BB	2479	U	C5-C4-O4	-6.53	121.98	125.90
35	BB	2623	G	C2-N3-C4	6.53	115.16	111.90
35	BB	2639	A	O4'-C1'-N9	6.53	113.42	108.20
35	BB	2818	U	O4'-C1'-N1	6.53	113.42	108.20
3	AC	178	ARG	N-CA-C	-6.52	93.38	111.00
9	AI	118	ARG	NE-CZ-NH2	-6.52	117.04	120.30
35	BB	131	A	C4-C5-C6	6.52	120.26	117.00
35	BB	217	A	C6-C5-N7	-6.52	127.73	132.30
35	BB	836	G	O4'-C1'-N9	6.52	113.42	108.20
35	BB	1732	C	C6-N1-C2	-6.52	117.69	120.30
35	BB	2110	G	N1-C6-O6	6.52	123.81	119.90
35	BB	2872	A	O4'-C1'-N9	6.52	113.42	108.20
1	AA	321	A	C6-C5-N7	-6.52	127.73	132.30
1	AA	532	A	C5-N7-C8	6.52	107.16	103.90
1	AA	743	A	N1-C2-N3	6.52	132.56	129.30
1	AA	746	A	P-O3'-C3'	-6.52	111.87	119.70
1	AA	1191	A	N1-C6-N6	6.52	122.51	118.60
35	BB	154	U	C5-C4-O4	-6.52	121.99	125.90
35	BB	352	A	C4-C5-C6	6.52	120.26	117.00
35	BB	389	G	C6-C5-N7	-6.52	126.49	130.40
35	BB	1348	C	C5-C6-N1	6.52	124.26	121.00
35	BB	1863	G	N1-C6-O6	6.52	123.81	119.90
35	BB	2543	G	N1-C2-N2	-6.52	110.33	116.20
35	BB	2594	C	C5-C4-N4	-6.52	115.63	120.20
35	BB	2741	A	C6-N1-C2	-6.52	114.69	118.60
1	AA	799	G	N3-C4-C5	-6.52	125.34	128.60
35	BB	345	A	C5-C6-N1	-6.52	114.44	117.70
35	BB	524	G	C5-C6-O6	-6.52	124.69	128.60
35	BB	1857	G	C5'-C4'-O4'	6.52	116.92	109.10
35	BB	2347	C	N3-C4-N4	6.52	122.56	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	578	C	C4-C5-C6	-6.52	114.14	117.40
1	AA	951	G	N1-C6-O6	6.52	123.81	119.90
25	B0	64	ASP	O-C-N	6.52	133.13	122.70
35	BB	119	A	N7-C8-N9	-6.52	110.54	113.80
35	BB	1342	A	C6-C5-N7	-6.52	127.74	132.30
35	BB	2174	C	C2-N3-C4	6.52	123.16	119.90
35	BB	2268	A	N1-C2-N3	-6.52	126.04	129.30
1	AA	595	A	C8-N9-C4	6.52	108.41	105.80
1	AA	1228	C	C6-N1-C2	6.52	122.91	120.30
35	BB	68	G	N1-C6-O6	6.52	123.81	119.90
35	BB	159	G	P-O3'-C3'	6.52	127.52	119.70
35	BB	393	C	N3-C4-C5	-6.52	119.29	121.90
35	BB	429	A	C5-C6-N6	-6.52	118.48	123.70
35	BB	2098	U	N1-C2-N3	-6.52	110.99	114.90
1	AA	1253	G	P-O3'-C3'	-6.52	111.88	119.70
35	BB	17	G	N1-C2-N3	-6.52	119.99	123.90
35	BB	51	G	N3-C2-N2	6.52	124.46	119.90
35	BB	438	G	N1-C6-O6	6.52	123.81	119.90
35	BB	2054	A	C5-C6-N1	-6.52	114.44	117.70
34	BA	11	C	N3-C2-O2	6.51	126.46	121.90
35	BB	786	C	N3-C2-O2	-6.51	117.34	121.90
35	BB	969	G	N1-C2-N3	-6.51	119.99	123.90
35	BB	2857	G	C6-C5-N7	-6.51	126.49	130.40
1	AA	637	C	N3-C4-N4	6.51	122.56	118.00
1	AA	1326	U	C5-C4-O4	6.51	129.81	125.90
1	AA	1432	G	C4'-C3'-C2'	6.51	109.11	102.60
35	BB	570	G	N1-C6-O6	-6.51	115.99	119.90
1	AA	25	C	N3-C2-O2	6.51	126.46	121.90
1	AA	811	C	N3-C4-C5	-6.51	119.30	121.90
35	BB	122	G	O4'-C1'-N9	6.51	113.41	108.20
35	BB	234	U	O4'-C1'-N1	6.51	113.41	108.20
35	BB	2744	G	N3-C4-C5	-6.51	125.34	128.60
1	AA	255	G	C6-N1-C2	6.51	129.00	125.10
1	AA	396	C	C5-C6-N1	6.51	124.25	121.00
1	AA	628	G	N3-C2-N2	6.51	124.46	119.90
1	AA	726	C	N3-C4-N4	6.51	122.56	118.00
1	AA	814	A	C5-N7-C8	-6.51	100.64	103.90
1	AA	1022	A	C5-C6-N6	-6.51	118.49	123.70
1	AA	1066	C	N3-C4-N4	6.51	122.56	118.00
1	AA	1088	G	C5-C6-O6	-6.51	124.69	128.60
35	BB	627	A	C4'-C3'-C2'	-6.51	96.09	102.60
35	BB	641	U	O4'-C1'-N1	6.51	113.41	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	859	G	C8-N9-C4	6.51	109.00	106.40
35	BB	1391	U	N3-C2-O2	-6.51	117.64	122.20
35	BB	2299	U	N3-C4-O4	6.51	123.96	119.40
35	BB	2324	U	N3-C4-O4	6.51	123.96	119.40
35	BB	2817	U	O4'-C1'-N1	6.51	113.41	108.20
43	BJ	35	ARG	NE-CZ-NH2	-6.51	117.05	120.30
1	AA	428	G	N3-C2-N2	6.51	124.45	119.90
35	BB	220	G	N7-C8-N9	-6.51	109.85	113.10
35	BB	574	A	C2-N3-C4	-6.51	107.35	110.60
35	BB	1415	U	N1-C2-N3	-6.51	111.00	114.90
1	AA	298	A	N3-C4-C5	-6.51	122.25	126.80
1	AA	868	C	O4'-C1'-N1	6.51	113.40	108.20
1	AA	1094	G	O4'-C1'-N9	6.51	113.41	108.20
35	BB	30	G	N7-C8-N9	-6.51	109.85	113.10
35	BB	323	C	C5-C6-N1	6.51	124.25	121.00
35	BB	412	A	C4-C5-C6	6.51	120.25	117.00
35	BB	468	G	N1-C6-O6	6.51	123.80	119.90
35	BB	882	G	P-O5'-C5'	-6.51	110.49	120.90
35	BB	911	A	C6-C5-N7	-6.51	127.75	132.30
35	BB	1213	A	C4-C5-C6	6.51	120.25	117.00
35	BB	1327	A	C5-C6-N6	-6.51	118.50	123.70
35	BB	1739	A	N9-C4-C5	6.51	108.40	105.80
35	BB	1842	G	C4-C5-N7	-6.51	108.20	110.80
1	AA	1433	A	C8-N9-C4	6.50	108.40	105.80
35	BB	1221	C	C5-C4-N4	-6.50	115.65	120.20
35	BB	1708	C	N1-C2-O2	-6.50	115.00	118.90
35	BB	1920	C	P-O3'-C3'	-6.50	111.89	119.70
35	BB	2787	C	N3-C4-C5	-6.50	119.30	121.90
35	BB	2859	G	C4'-C3'-C2'	6.50	109.11	102.60
1	AA	773	G	N1-C6-O6	6.50	123.80	119.90
1	AA	1192	C	C6-N1-C2	6.50	122.90	120.30
4	AD	12	ARG	NE-CZ-NH2	-6.50	117.05	120.30
22	AV	44	G	C5-C6-O6	-6.50	124.70	128.60
35	BB	561	G	N1-C2-N3	-6.50	120.00	123.90
35	BB	934	U	C5-C6-N1	6.50	125.95	122.70
1	AA	204	G	C5-N7-C8	6.50	107.55	104.30
1	AA	369	G	C4'-C3'-C2'	-6.50	96.10	102.60
1	AA	392	C	N3-C4-N4	6.50	122.55	118.00
1	AA	424	G	C5-C6-O6	-6.50	124.70	128.60
1	AA	439	U	N1-C2-O2	6.50	127.35	122.80
35	BB	31	C	C5-C4-N4	-6.50	115.65	120.20
35	BB	299	A	C5-N7-C8	6.50	107.15	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	655	A	C5-C6-N1	-6.50	114.45	117.70
35	BB	896	A	C5'-C4'-O4'	6.50	116.90	109.10
35	BB	983	A	N1-C6-N6	6.50	122.50	118.60
35	BB	2400	G	C2-N3-C4	6.50	115.15	111.90
35	BB	2828	G	C8-N9-C4	6.50	109.00	106.40
34	BA	32	U	N3-C2-O2	6.50	126.75	122.20
35	BB	2423	U	N3-C4-O4	6.50	123.95	119.40
35	BB	2524	G	C4-C5-C6	6.50	122.70	118.80
35	BB	2627	G	N3-C2-N2	6.50	124.45	119.90
1	AA	558	G	N3-C4-C5	-6.50	125.35	128.60
1	AA	1265	C	O4'-C1'-N1	6.50	113.40	108.20
8	AH	8	ASP	CB-CG-OD2	-6.50	112.45	118.30
34	BA	112	G	C6-N1-C2	-6.50	121.20	125.10
35	BB	247	G	C6-N1-C2	6.50	129.00	125.10
35	BB	1510	G	N1-C2-N3	-6.50	120.00	123.90
35	BB	2054	A	C5-N7-C8	6.50	107.15	103.90
1	AA	19	A	N9-C4-C5	-6.50	103.20	105.80
1	AA	87	C	C4-C5-C6	6.50	120.65	117.40
1	AA	932	C	O4'-C1'-N1	6.50	113.40	108.20
1	AA	948	C	N3-C4-N4	6.50	122.55	118.00
1	AA	1258	G	N7-C8-N9	-6.50	109.85	113.10
12	AL	11	ARG	CB-CA-C	-6.50	97.41	110.40
35	BB	814	C	C5-C6-N1	6.50	124.25	121.00
35	BB	1630	A	C2-N3-C4	6.50	113.85	110.60
35	BB	1949	G	C4-C5-N7	-6.50	108.20	110.80
35	BB	2348	U	N3-C4-O4	6.50	123.95	119.40
35	BB	2488	G	C3'-C2'-C1'	-6.50	96.30	101.50
35	BB	2567	G	C5-C6-O6	-6.50	124.70	128.60
1	AA	927	G	C4-C5-C6	6.50	122.70	118.80
1	AA	1470	U	C2-N3-C4	6.50	130.90	127.00
35	BB	271	G	N3-C2-N2	6.50	124.45	119.90
35	BB	294	A	N3-C4-C5	-6.50	122.25	126.80
35	BB	236	C	C6-N1-C1'	-6.49	113.01	120.80
35	BB	938	G	C4-C5-C6	-6.49	114.90	118.80
35	BB	1034	G	C6-C5-N7	-6.49	126.50	130.40
35	BB	1238	G	C6-C5-N7	-6.49	126.50	130.40
35	BB	1532	A	C2-N3-C4	6.49	113.85	110.60
35	BB	1552	A	O4'-C1'-N9	6.49	113.39	108.20
35	BB	2544	G	C6-C5-N7	-6.49	126.50	130.40
1	AA	239	U	N1-C1'-C2'	-6.49	104.86	112.00
1	AA	437	U	P-O5'-C5'	-6.49	110.51	120.90
1	AA	1363	A	C5-C6-N6	-6.49	118.51	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	76	LYS	CA-CB-CG	6.49	127.68	113.40
35	BB	51	G	C4-C5-C6	6.49	122.69	118.80
35	BB	309	A	C4-C5-C6	6.49	120.25	117.00
35	BB	327	G	C6-N1-C2	6.49	129.00	125.10
35	BB	504	A	C1'-O4'-C4'	6.49	115.09	109.90
35	BB	2467	C	C4'-C3'-C2'	-6.49	96.11	102.60
35	BB	2673	G	N1-C2-N3	-6.49	120.00	123.90
43	BJ	53	TYR	CG-CD2-CE2	-6.49	116.11	121.30
1	AA	83	C	C5'-C4'-C3'	6.49	126.39	116.00
1	AA	276	G	P-O3'-C3'	-6.49	111.91	119.70
1	AA	449	G	C8-N9-C4	-6.49	103.80	106.40
1	AA	781	A	C8-N9-C4	-6.49	103.20	105.80
1	AA	1236	A	C4-C5-C6	6.49	120.25	117.00
35	BB	471	A	C5-C6-N6	-6.49	118.51	123.70
35	BB	680	C	O5'-C5'-C4'	-6.49	99.37	111.70
35	BB	1881	C	N1-C2-N3	-6.49	114.66	119.20
35	BB	2168	G	N1-C2-N3	-6.49	120.01	123.90
35	BB	2758	A	N1-C6-N6	6.49	122.49	118.60
1	AA	286	C	OP1-P-OP2	-6.49	109.87	119.60
1	AA	1358	U	C4'-C3'-C2'	-6.49	96.11	102.60
1	AA	1513	A	O4'-C1'-N9	6.49	113.39	108.20
35	BB	273	G	N1-C6-O6	6.49	123.79	119.90
35	BB	368	A	C8-N9-C4	-6.49	103.20	105.80
35	BB	743	A	C5-N7-C8	6.49	107.14	103.90
35	BB	1624	U	N3-C4-O4	6.49	123.94	119.40
35	BB	1844	C	C6-N1-C2	6.49	122.89	120.30
35	BB	2110	G	C4-C5-N7	6.49	113.40	110.80
35	BB	2471	A	O4'-C1'-N9	6.49	113.39	108.20
35	BB	2645	G	N1-C2-N2	-6.49	110.36	116.20
35	BB	2816	G	N3-C2-N2	6.49	124.44	119.90
1	AA	469	C	N3-C4-C5	6.49	124.50	121.90
1	AA	837	U	C6-N1-C2	-6.49	117.11	121.00
1	AA	1382	C	C2-N3-C4	6.49	123.14	119.90
35	BB	602	A	C6-C5-N7	-6.49	127.76	132.30
35	BB	1255	U	C1'-O4'-C4'	6.49	115.09	109.90
1	AA	971	G	C4-C5-N7	6.49	113.39	110.80
34	BA	13	G	C2-N3-C4	6.49	115.14	111.90
35	BB	1208	C	C5-C6-N1	6.49	124.24	121.00
35	BB	1608	A	N9-C4-C5	-6.49	103.21	105.80
35	BB	1809	A	C5-N7-C8	6.49	107.14	103.90
35	BB	1840	G	C6-N1-C2	6.49	128.99	125.10
35	BB	2334	U	O4'-C1'-N1	6.49	113.39	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2549	G	C5-C6-O6	-6.49	124.71	128.60
35	BB	2897	U	N1-C2-O2	6.49	127.34	122.80
1	AA	349	A	N1-C6-N6	6.48	122.49	118.60
35	BB	532	A	N1-C2-N3	-6.48	126.06	129.30
35	BB	776	G	C3'-C2'-C1'	-6.48	96.31	101.50
35	BB	2120	G	C5-C6-O6	-6.48	124.71	128.60
35	BB	2120	G	N1-C2-N3	-6.48	120.01	123.90
35	BB	2318	G	C5-N7-C8	6.48	107.54	104.30
1	AA	73	C	C6-N1-C2	-6.48	117.71	120.30
1	AA	119	A	C5-C6-N6	-6.48	118.52	123.70
1	AA	239	U	C2-N3-C4	6.48	130.89	127.00
1	AA	437	U	N3-C4-O4	6.48	123.94	119.40
1	AA	734	G	C8-N9-C4	-6.48	103.81	106.40
8	AH	127	TYR	CB-CG-CD1	-6.48	117.11	121.00
35	BB	379	G	C5-C6-N1	-6.48	108.26	111.50
35	BB	441	U	C2-N3-C4	6.48	130.89	127.00
35	BB	514	A	C3'-C2'-C1'	6.48	106.69	101.50
35	BB	825	A	C6-C5-N7	-6.48	127.76	132.30
35	BB	1281	G	O4'-C1'-N9	6.48	113.39	108.20
35	BB	1341	G	N1-C6-O6	6.48	123.79	119.90
35	BB	2595	G	N9-C4-C5	6.48	107.99	105.40
1	AA	143	A	C4-C5-N7	-6.48	107.46	110.70
1	AA	594	U	N1-C2-O2	-6.48	118.26	122.80
1	AA	1186	G	C8-N9-C4	-6.48	103.81	106.40
1	AA	1238	A	N3-C4-C5	-6.48	122.26	126.80
34	BA	103	U	P-O5'-C5'	6.48	131.27	120.90
35	BB	17	G	O4'-C1'-N9	6.48	113.39	108.20
35	BB	492	A	O4'-C1'-N9	6.48	113.38	108.20
35	BB	699	A	O4'-C4'-C3'	-6.48	97.52	104.00
35	BB	1433	A	C5-C6-N6	-6.48	118.52	123.70
35	BB	1802	A	C6-C5-N7	-6.48	127.76	132.30
35	BB	1952	A	C2-N3-C4	-6.48	107.36	110.60
35	BB	2767	C	C6-N1-C2	-6.48	117.71	120.30
35	BB	2770	G	N9-C4-C5	-6.48	102.81	105.40
35	BB	2843	G	C8-N9-C4	-6.48	103.81	106.40
35	BB	62	U	O4'-C1'-N1	6.48	113.38	108.20
35	BB	454	A	N3-C4-C5	-6.48	122.27	126.80
35	BB	1727	C	N3-C4-C5	-6.48	119.31	121.90
35	BB	2636	C	C4-C5-C6	6.48	120.64	117.40
1	AA	553	A	C8-N9-C4	-6.48	103.21	105.80
1	AA	1039	G	N3-C4-N9	6.48	129.89	126.00
1	AA	1386	G	C4'-C3'-C2'	-6.48	96.12	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	29	U	C5-C4-O4	-6.48	122.01	125.90
35	BB	1010	A	C4-C5-C6	6.48	120.24	117.00
35	BB	1076	C	N3-C4-C5	-6.48	119.31	121.90
35	BB	1483	G	C5-N7-C8	6.48	107.54	104.30
35	BB	1593	A	C2-N3-C4	-6.48	107.36	110.60
35	BB	1687	G	C6-C5-N7	-6.48	126.51	130.40
35	BB	879	G	N7-C8-N9	6.48	116.34	113.10
35	BB	2110	G	C5-C6-O6	-6.48	124.72	128.60
1	AA	161	A	N1-C6-N6	6.47	122.48	118.60
1	AA	449	G	C5-C6-O6	-6.47	124.72	128.60
1	AA	685	G	C2-N3-C4	-6.47	108.66	111.90
1	AA	942	G	N7-C8-N9	-6.47	109.86	113.10
1	AA	1080	A	C4-C5-C6	6.47	120.24	117.00
9	AI	84	ARG	NE-CZ-NH2	-6.47	117.06	120.30
22	AV	72	G	N3-C2-N2	6.47	124.43	119.90
35	BB	377	G	N1-C6-O6	6.47	123.78	119.90
35	BB	465	G	N3-C4-N9	-6.47	122.11	126.00
35	BB	650	C	O4'-C1'-N1	6.47	113.38	108.20
35	BB	704	G	N1-C6-O6	6.47	123.78	119.90
35	BB	962	G	N1-C2-N3	-6.47	120.02	123.90
35	BB	1058	U	N3-C2-O2	6.47	126.73	122.20
35	BB	1144	A	O4'-C1'-N9	6.47	113.38	108.20
35	BB	1733	G	N9-C1'-C2'	-6.47	104.88	112.00
35	BB	1862	G	C8-N9-C1'	6.47	135.42	127.00
1	AA	175	C	C5-C4-N4	-6.47	115.67	120.20
1	AA	220	G	C1'-O4'-C4'	6.47	115.08	109.90
1	AA	550	G	C6-N1-C2	6.47	128.98	125.10
1	AA	793	U	C6-N1-C2	-6.47	117.12	121.00
1	AA	801	U	N1-C1'-C2'	-6.47	104.88	112.00
3	AC	20	THR	CA-CB-CG2	-6.47	103.34	112.40
16	AP	70	ARG	NE-CZ-NH2	-6.47	117.06	120.30
35	BB	1440	U	C4-C5-C6	6.47	123.58	119.70
35	BB	1546	G	N1-C2-N3	-6.47	120.02	123.90
35	BB	1933	G	C6-N1-C2	-6.47	121.22	125.10
35	BB	2106	U	N1-C2-O2	-6.47	118.27	122.80
1	AA	828	U	C4-C5-C6	-6.47	115.82	119.70
35	BB	2010	G	N7-C8-N9	-6.47	109.86	113.10
35	BB	2506	U	C6-N1-C2	-6.47	117.12	121.00
1	AA	6	G	O4'-C1'-N9	6.47	113.38	108.20
1	AA	165	G	N1-C2-N3	-6.47	120.02	123.90
1	AA	267	C	C5-C6-N1	6.47	124.23	121.00
1	AA	298	A	C4-C5-N7	-6.47	107.47	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	512	U	C6-N1-C2	-6.47	117.12	121.00
1	AA	807	A	C5-C6-N1	-6.47	114.47	117.70
1	AA	812	G	C6-C5-N7	-6.47	126.52	130.40
1	AA	1358	U	N3-C2-O2	-6.47	117.67	122.20
35	BB	83	A	O4'-C1'-N9	6.47	113.38	108.20
35	BB	401	A	C5-N7-C8	6.47	107.14	103.90
35	BB	714	U	O4'-C1'-N1	6.47	113.38	108.20
35	BB	1420	A	N1-C6-N6	6.47	122.48	118.60
35	BB	1424	G	C3'-C2'-C1'	6.47	106.67	101.50
35	BB	1500	G	O4'-C1'-N9	6.47	113.38	108.20
35	BB	1619	G	C4-C5-N7	6.47	113.39	110.80
35	BB	2099	U	N3-C2-O2	6.47	126.73	122.20
35	BB	2258	C	N3-C4-C5	-6.47	119.31	121.90
35	BB	2364	C	C4'-C3'-C2'	-6.47	96.13	102.60
35	BB	2451	A	O4'-C1'-N9	6.47	113.38	108.20
35	BB	2686	G	N3-C4-C5	6.47	131.83	128.60
35	BB	1507	C	C4-C5-C6	-6.47	114.17	117.40
35	BB	1749	A	C2-N3-C4	-6.47	107.37	110.60
35	BB	1983	G	C5-C6-O6	-6.47	124.72	128.60
35	BB	2421	G	C6-C5-N7	-6.47	126.52	130.40
1	AA	488	C	O4'-C4'-C3'	-6.47	97.53	104.00
1	AA	582	C	C6-N1-C2	-6.47	117.71	120.30
1	AA	855	U	C5-C4-O4	-6.47	122.02	125.90
1	AA	1200	C	C4-C5-C6	6.47	120.63	117.40
35	BB	541	A	N1-C2-N3	6.47	132.53	129.30
35	BB	1393	A	O4'-C1'-N9	6.47	113.37	108.20
35	BB	1519	G	N1-C2-N2	-6.47	110.38	116.20
35	BB	1639	C	C6-N1-C2	-6.47	117.71	120.30
35	BB	1841	U	C5-C6-N1	6.47	125.93	122.70
35	BB	2519	U	O5'-P-OP1	-6.47	99.88	105.70
35	BB	2546	U	N3-C4-O4	6.47	123.93	119.40
35	BB	2657	A	C5-C6-N1	-6.47	114.47	117.70
40	BG	96	ALA	N-CA-CB	6.47	119.15	110.10
1	AA	17	U	N3-C4-O4	6.46	123.92	119.40
1	AA	928	G	C6-C5-N7	-6.46	126.52	130.40
1	AA	1364	U	N1-C2-O2	-6.46	118.28	122.80
8	AH	85	TYR	N-CA-CB	6.46	122.24	110.60
35	BB	881	G	C5-C6-N1	-6.46	108.27	111.50
35	BB	894	U	O4'-C1'-N1	6.46	113.37	108.20
35	BB	1011	G	C5-C6-O6	-6.46	124.72	128.60
35	BB	1157	G	N3-C4-N9	6.46	129.88	126.00
35	BB	2248	C	O4'-C1'-N1	6.46	113.37	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BC	132	ARG	NE-CZ-NH1	6.46	123.53	120.30
1	AA	406	G	C4-C5-N7	-6.46	108.22	110.80
1	AA	465	A	C5-N7-C8	6.46	107.13	103.90
1	AA	812	G	O4'-C1'-N9	6.46	113.37	108.20
1	AA	1058	G	N3-C2-N2	6.46	124.42	119.90
1	AA	1079	G	C5-C6-O6	-6.46	124.72	128.60
35	BB	193	U	N3-C4-O4	6.46	123.92	119.40
35	BB	740	C	O4'-C1'-N1	6.46	113.37	108.20
35	BB	2553	G	C3'-C2'-C1'	-6.46	96.33	101.50
49	BP	52	ARG	N-CA-CB	6.46	122.23	110.60
1	AA	743	A	C5-C6-N6	-6.46	118.53	123.70
1	AA	976	G	C5'-C4'-O4'	6.46	116.86	109.10
1	AA	1044	A	C4-C5-C6	6.46	120.23	117.00
1	AA	1441	A	C5-C6-N6	-6.46	118.53	123.70
1	AA	1446	A	P-O3'-C3'	6.46	127.45	119.70
35	BB	384	A	C2-N3-C4	6.46	113.83	110.60
35	BB	1100	C	O4'-C1'-N1	6.46	113.37	108.20
35	BB	1195	G	O4'-C1'-N9	6.46	113.37	108.20
35	BB	1381	G	P-O3'-C3'	-6.46	111.95	119.70
35	BB	1435	G	C1'-O4'-C4'	6.46	115.07	109.90
35	BB	1612	C	C6-N1-C2	6.46	122.89	120.30
35	BB	1712	U	O4'-C1'-N1	6.46	113.37	108.20
35	BB	2255	G	O4'-C1'-N9	6.46	113.37	108.20
53	BT	50	LEU	CB-CG-CD1	-6.46	100.02	111.00
1	AA	222	C	C1'-O4'-C4'	-6.46	104.73	109.90
1	AA	561	U	C6-N1-C1'	-6.46	112.16	121.20
1	AA	722	G	C5-C6-O6	-6.46	124.72	128.60
1	AA	1187	G	C5-C6-O6	-6.46	124.72	128.60
35	BB	81	G	N3-C2-N2	-6.46	115.38	119.90
35	BB	131	A	C5-C6-N1	-6.46	114.47	117.70
35	BB	216	A	O4'-C1'-N9	6.46	113.37	108.20
35	BB	1633	G	C5-C6-N1	-6.46	108.27	111.50
35	BB	1803	A	N1-C6-N6	6.46	122.48	118.60
1	AA	51	A	N1-C2-N3	-6.46	126.07	129.30
1	AA	127	G	C4-C5-C6	6.46	122.67	118.80
1	AA	596	A	C5-C6-N6	-6.46	118.53	123.70
34	BA	107	G	C5-C6-O6	-6.46	124.72	128.60
35	BB	319	G	O4'-C1'-N9	6.46	113.37	108.20
35	BB	363	G	C2-N3-C4	-6.46	108.67	111.90
35	BB	694	U	O4'-C1'-N1	6.46	113.37	108.20
35	BB	1097	U	C4'-C3'-C2'	-6.46	96.14	102.60
35	BB	1261	C	C5-C4-N4	-6.46	115.68	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2789	C	C6-N1-C2	6.46	122.88	120.30
1	AA	159	G	N1-C2-N3	-6.46	120.03	123.90
1	AA	1067	A	C8-N9-C4	-6.46	103.22	105.80
35	BB	148	U	N3-C4-O4	6.46	123.92	119.40
35	BB	712	G	N3-C4-N9	-6.46	122.13	126.00
35	BB	912	C	O4'-C1'-N1	6.46	113.36	108.20
35	BB	943	A	C5-C6-N1	-6.46	114.47	117.70
35	BB	1275	A	C4-N9-C1'	6.46	137.92	126.30
35	BB	1391	U	C5'-C4'-O4'	6.46	116.85	109.10
35	BB	1703	G	N3-C4-N9	-6.46	122.13	126.00
54	BU	97	SER	N-CA-CB	6.46	120.19	110.50
1	AA	1153	G	C4-C5-N7	6.46	113.38	110.80
35	BB	265	A	C5-C6-N6	-6.46	118.54	123.70
35	BB	897	C	N3-C4-N4	6.46	122.52	118.00
35	BB	1665	A	N7-C8-N9	-6.46	110.57	113.80
35	BB	2173	A	C5-N7-C8	6.46	107.13	103.90
1	AA	46	G	C6-C5-N7	-6.45	126.53	130.40
1	AA	68	G	C6-C5-N7	-6.45	126.53	130.40
1	AA	400	C	C4'-C3'-C2'	-6.45	96.15	102.60
1	AA	646	G	N1-C6-O6	6.45	123.77	119.90
1	AA	1256	A	O4'-C1'-N9	6.45	113.36	108.20
8	AH	53	ASP	CB-CG-OD1	-6.45	112.49	118.30
22	AV	21	A	C4-C5-C6	6.45	120.23	117.00
35	BB	693	A	O4'-C1'-N9	6.45	113.36	108.20
35	BB	1511	G	C5-C6-O6	-6.45	124.73	128.60
1	AA	540	G	C8-N9-C4	-6.45	103.82	106.40
35	BB	452	G	C5'-C4'-C3'	-6.45	105.68	116.00
35	BB	698	C	C5-C4-N4	-6.45	115.68	120.20
35	BB	855	G	C5-C6-N1	-6.45	108.27	111.50
1	AA	148	G	N3-C2-N2	6.45	124.42	119.90
1	AA	731	G	C4-C5-N7	-6.45	108.22	110.80
1	AA	814	A	C4-C5-N7	6.45	113.92	110.70
1	AA	1337	G	P-O3'-C3'	6.45	127.44	119.70
35	BB	89	A	C5-C6-N6	-6.45	118.54	123.70
35	BB	625	G	C5-C6-O6	-6.45	124.73	128.60
35	BB	952	G	C4'-C3'-C2'	-6.45	96.15	102.60
35	BB	1842	G	N1-C6-O6	6.45	123.77	119.90
35	BB	1900	A	C6-C5-N7	-6.45	127.78	132.30
35	BB	2494	G	N3-C2-N2	6.45	124.42	119.90
35	BB	2606	C	C5-C4-N4	-6.45	115.68	120.20
1	AA	412	A	C8-N9-C4	-6.45	103.22	105.80
1	AA	471	U	P-O5'-C5'	6.45	131.22	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	624	C	N3-C4-N4	6.45	122.51	118.00
35	BB	119	A	C5-C6-N1	-6.45	114.48	117.70
35	BB	1075	C	N3-C2-O2	6.45	126.41	121.90
35	BB	1810	A	C5-N7-C8	6.45	107.12	103.90
35	BB	2788	C	C4-C5-C6	-6.45	114.18	117.40
35	BB	2835	A	C4-C5-C6	6.45	120.22	117.00
1	AA	1153	G	O4'-C1'-C2'	6.45	113.40	107.60
35	BB	1291	C	O4'-C4'-C3'	-6.45	97.55	104.00
35	BB	1903	G	C1'-O4'-C4'	-6.45	104.74	109.90
35	BB	2339	C	N3-C4-C5	-6.45	119.32	121.90
51	BR	58	VAL	CA-CB-CG1	-6.45	101.23	110.90
1	AA	874	G	N1-C2-N3	-6.45	120.03	123.90
1	AA	1270	G	N9-C4-C5	6.45	107.98	105.40
35	BB	288	U	N3-C4-C5	-6.45	110.73	114.60
35	BB	313	G	N3-C2-N2	6.45	124.41	119.90
35	BB	759	G	C5-C6-O6	-6.45	124.73	128.60
35	BB	1315	C	N3-C4-N4	6.45	122.51	118.00
35	BB	1448	G	N9-C4-C5	6.45	107.98	105.40
35	BB	1550	C	N1-C2-N3	6.45	123.71	119.20
35	BB	1966	A	C5-N7-C8	6.45	107.12	103.90
35	BB	2221	G	N3-C4-N9	6.45	129.87	126.00
1	AA	85	U	N3-C4-C5	-6.44	110.73	114.60
1	AA	664	G	C6-N1-C2	6.44	128.97	125.10
35	BB	2074	U	O4'-C1'-N1	6.44	113.36	108.20
1	AA	445	G	C5-C6-O6	-6.44	124.73	128.60
1	AA	865	A	O4'-C1'-N9	6.44	113.36	108.20
1	AA	1104	G	N1-C6-O6	6.44	123.77	119.90
35	BB	701	G	N3-C4-N9	-6.44	122.13	126.00
35	BB	1027	A	C6-N1-C2	-6.44	114.73	118.60
35	BB	1237	A	C2-N3-C4	6.44	113.82	110.60
35	BB	1358	G	N3-C4-C5	6.44	131.82	128.60
35	BB	2782	G	C5-C6-N1	6.44	114.72	111.50
35	BB	2843	G	O4'-C1'-N9	6.44	113.35	108.20
52	BS	64	ALA	N-CA-CB	6.44	119.12	110.10
1	AA	79	G	C2-N3-C4	6.44	115.12	111.90
1	AA	1003	G	P-O3'-C3'	6.44	127.43	119.70
11	AK	71	ASP	CB-CG-OD2	-6.44	112.50	118.30
34	BA	83	G	N1-C2-N3	-6.44	120.04	123.90
35	BB	409	G	P-O3'-C3'	-6.44	111.97	119.70
35	BB	649	G	N9-C4-C5	6.44	107.98	105.40
35	BB	684	G	C2-N3-C4	6.44	115.12	111.90
35	BB	827	U	P-O3'-C3'	6.44	127.43	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	1976	U	N3-C4-O4	6.44	123.91	119.40
35	BB	2425	A	C4-C5-C6	6.44	120.22	117.00
35	BB	2523	G	P-O5'-C5'	6.44	131.21	120.90
1	AA	1269	A	C5-C6-N1	-6.44	114.48	117.70
1	AA	1305	G	C8-N9-C4	-6.44	103.82	106.40
35	BB	411	G	C4-C5-N7	-6.44	108.22	110.80
35	BB	956	G	C4'-C3'-C2'	-6.44	96.16	102.60
35	BB	1155	A	C5-C6-N1	-6.44	114.48	117.70
35	BB	1224	U	N1-C2-N3	6.44	118.76	114.90
35	BB	1280	G	P-O3'-C3'	-6.44	111.97	119.70
1	AA	862	C	N3-C4-C5	-6.44	119.33	121.90
1	AA	962	C	C6-N1-C2	6.44	122.88	120.30
1	AA	1138	G	N1-C6-O6	6.44	123.76	119.90
20	AT	17	ARG	NE-CZ-NH1	-6.44	117.08	120.30
35	BB	52	A	C4-C5-N7	-6.44	107.48	110.70
35	BB	168	G	C6-N1-C2	6.44	128.96	125.10
35	BB	178	G	C5-C6-O6	-6.44	124.74	128.60
35	BB	437	U	C2-N3-C4	-6.44	123.14	127.00
35	BB	831	G	N7-C8-N9	-6.44	109.88	113.10
35	BB	861	A	C5-C6-N6	-6.44	118.55	123.70
35	BB	1106	G	N1-C2-N3	-6.44	120.04	123.90
22	AV	3	G	P-O5'-C5'	-6.44	110.60	120.90
35	BB	710	U	O4'-C1'-N1	6.44	113.35	108.20
35	BB	1711	A	N7-C8-N9	-6.44	110.58	113.80
35	BB	2331	G	O4'-C1'-N9	6.44	113.35	108.20
35	BB	2698	U	C2-N3-C4	6.44	130.86	127.00
1	AA	203	G	C2-N3-C4	-6.43	108.68	111.90
1	AA	468	A	C5-C6-N1	6.43	120.92	117.70
1	AA	612	C	C5'-C4'-O4'	6.43	116.82	109.10
1	AA	846	G	O4'-C4'-C3'	-6.43	97.56	104.00
1	AA	923	A	C2-N3-C4	-6.43	107.38	110.60
1	AA	1283	U	N3-C4-O4	6.43	123.91	119.40
1	AA	1386	G	N1-C2-N3	-6.43	120.04	123.90
1	AA	1438	G	C5-C6-O6	-6.43	124.74	128.60
34	BA	71	C	C5-C6-N1	6.43	124.22	121.00
35	BB	633	A	C4'-C3'-C2'	-6.43	96.17	102.60
35	BB	2123	G	C5-C6-N1	6.43	114.72	111.50
35	BB	2529	G	C5-C6-N1	6.43	114.72	111.50
35	BB	2612	C	N3-C4-C5	-6.43	119.33	121.90
35	BB	2723	C	C1'-O4'-C4'	6.43	115.05	109.90
1	AA	16	A	C4-C5-N7	-6.43	107.48	110.70
1	AA	205	A	N1-C2-N3	6.43	132.52	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	563	A	P-O3'-C3'	6.43	127.42	119.70
1	AA	1374	A	C2-N3-C4	-6.43	107.38	110.60
3	AC	62	SER	N-CA-CB	6.43	120.15	110.50
34	BA	7	G	O5'-P-OP1	-6.43	99.91	105.70
35	BB	617	G	C5-N7-C8	6.43	107.52	104.30
35	BB	913	U	N3-C2-O2	6.43	126.70	122.20
35	BB	1254	A	C3'-C2'-C1'	6.43	106.65	101.50
35	BB	1542	U	C4-C5-C6	-6.43	115.84	119.70
35	BB	1617	C	N3-C4-N4	6.43	122.50	118.00
35	BB	2199	A	C5-N7-C8	6.43	107.12	103.90
35	BB	2328	A	C5-N7-C8	6.43	107.12	103.90
35	BB	2766	A	C2-N3-C4	6.43	113.82	110.60
35	BB	2894	G	C4-C5-C6	6.43	122.66	118.80
35	BB	2897	U	N1-C2-N3	-6.43	111.04	114.90
1	AA	71	A	P-O3'-C3'	-6.43	111.98	119.70
35	BB	400	G	C4-C5-C6	6.43	122.66	118.80
35	BB	1049	C	C5-C4-N4	-6.43	115.70	120.20
35	BB	2648	G	C5-C6-O6	-6.43	124.74	128.60
1	AA	677	U	C5-C4-O4	-6.43	122.04	125.90
1	AA	729	A	O4'-C1'-N9	6.43	113.34	108.20
1	AA	769	G	N1-C2-N3	-6.43	120.04	123.90
1	AA	814	A	C6-N1-C2	-6.43	114.74	118.60
1	AA	1138	G	C6-N1-C2	6.43	128.96	125.10
1	AA	1508	A	N7-C8-N9	6.43	117.02	113.80
35	BB	443	A	C5-C6-N6	-6.43	118.56	123.70
35	BB	693	A	C6-N1-C2	-6.43	114.74	118.60
35	BB	788	A	C5-N7-C8	6.43	107.11	103.90
35	BB	1895	C	O4'-C1'-N1	6.43	113.34	108.20
35	BB	2554	U	O4'-C1'-N1	6.43	113.34	108.20
35	BB	2635	A	C5-N7-C8	-6.43	100.69	103.90
35	BB	2721	A	C4-C5-C6	6.43	120.21	117.00
40	BG	68	ARG	NE-CZ-NH1	6.43	123.52	120.30
1	AA	150	U	N3-C4-O4	6.43	123.90	119.40
1	AA	1072	G	C1'-O4'-C4'	6.43	115.04	109.90
35	BB	785	G	N3-C2-N2	6.43	124.40	119.90
48	BO	41	ALA	CB-CA-C	-6.43	100.46	110.10
1	AA	1340	A	N7-C8-N9	-6.43	110.59	113.80
1	AA	1359	C	C6-N1-C1'	-6.43	113.09	120.80
35	BB	215	G	C6-C5-N7	-6.43	126.54	130.40
35	BB	984	A	C4-C5-C6	6.43	120.21	117.00
35	BB	1065	U	O4'-C1'-N1	6.43	113.34	108.20
35	BB	1387	A	C5-C6-N1	-6.43	114.49	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1587	G	P-O3'-C3'	-6.43	111.99	119.70
35	BB	1703	G	C5-C6-O6	-6.43	124.74	128.60
35	BB	1834	U	P-O3'-C3'	6.43	127.41	119.70
38	BE	130	LYS	N-CA-C	-6.43	93.65	111.00
52	BS	62	ASP	CB-CG-OD2	-6.43	112.52	118.30
1	AA	693	G	C5-N7-C8	6.42	107.51	104.30
1	AA	1382	C	N3-C4-C5	-6.42	119.33	121.90
35	BB	205	G	N3-C2-N2	-6.42	115.40	119.90
35	BB	406	G	C5-C6-N1	-6.42	108.29	111.50
35	BB	455	C	C6-N1-C2	6.42	122.87	120.30
35	BB	2036	C	C5'-C4'-C3'	-6.42	105.72	116.00
35	BB	2166	U	O4'-C1'-N1	6.42	113.34	108.20
35	BB	2189	U	C5-C4-O4	-6.42	122.05	125.90
35	BB	2189	U	OP1-P-OP2	-6.42	109.96	119.60
35	BB	2688	G	N1-C6-O6	6.42	123.75	119.90
35	BB	2726	A	O4'-C1'-N9	6.42	113.34	108.20
1	AA	335	C	N3-C4-C5	-6.42	119.33	121.90
1	AA	1255	G	C8-N9-C4	-6.42	103.83	106.40
35	BB	406	G	C4-C5-C6	6.42	122.65	118.80
35	BB	1840	G	N3-C4-N9	6.42	129.85	126.00
35	BB	2381	A	C4-C5-C6	6.42	120.21	117.00
35	BB	2826	A	C5'-C4'-O4'	6.42	116.81	109.10
39	BF	142	TYR	CB-CG-CD1	6.42	124.85	121.00
1	AA	161	A	C6-C5-N7	-6.42	127.81	132.30
1	AA	200	G	C5'-C4'-C3'	-6.42	105.72	116.00
1	AA	209	U	P-O3'-C3'	6.42	127.41	119.70
1	AA	239	U	N1-C2-N3	-6.42	111.05	114.90
1	AA	1528	U	N3-C4-O4	6.42	123.89	119.40
22	AV	55	U	O4'-C1'-N1	6.42	113.34	108.20
35	BB	12	U	N1-C2-N3	6.42	118.75	114.90
35	BB	89	A	C2-N3-C4	-6.42	107.39	110.60
35	BB	338	G	N1-C6-O6	6.42	123.75	119.90
35	BB	1376	C	C6-N1-C2	-6.42	117.73	120.30
35	BB	2476	A	N3-C4-N9	6.42	132.54	127.40
35	BB	2484	G	N7-C8-N9	-6.42	109.89	113.10
1	AA	1202	U	P-O3'-C3'	-6.42	112.00	119.70
35	BB	2229	U	P-O3'-C3'	-6.42	112.00	119.70
35	BB	2592	G	C6-C5-N7	-6.42	126.55	130.40
35	BB	2744	G	N1-C2-N2	6.42	121.98	116.20
1	AA	373	A	C5'-C4'-C3'	6.42	126.27	116.00
1	AA	427	U	C2-N3-C4	6.42	130.85	127.00
1	AA	592	G	N3-C4-C5	-6.42	125.39	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1206	G	N3-C2-N2	6.42	124.39	119.90
1	AA	1223	C	O4'-C1'-N1	6.42	113.33	108.20
1	AA	1322	C	O4'-C1'-N1	6.42	113.33	108.20
14	AN	8	ARG	NE-CZ-NH1	-6.42	117.09	120.30
15	AO	76	ARG	NE-CZ-NH2	-6.42	117.09	120.30
35	BB	483	A	C8-N9-C4	-6.42	103.23	105.80
35	BB	591	U	N3-C4-C5	6.42	118.45	114.60
35	BB	974	G	P-O3'-C3'	6.42	127.40	119.70
35	BB	993	G	O5'-P-OP2	-6.42	99.92	105.70
35	BB	1307	A	C5-N7-C8	6.42	107.11	103.90
35	BB	2134	A	C4'-C3'-C2'	-6.42	96.18	102.60
35	BB	2699	C	P-O3'-C3'	-6.42	112.00	119.70
35	BB	2751	G	N3-C2-N2	6.42	124.39	119.90
1	AA	29	U	N3-C4-C5	6.42	118.45	114.60
1	AA	41	G	C5-C6-N1	-6.42	108.29	111.50
1	AA	194	C	C5-C4-N4	-6.42	115.71	120.20
1	AA	944	G	C2-N3-C4	6.42	115.11	111.90
1	AA	1157	A	C6-C5-N7	-6.42	127.81	132.30
22	AV	6	C	C2-N3-C4	6.42	123.11	119.90
35	BB	200	U	N3-C4-O4	6.42	123.89	119.40
35	BB	788	A	N3-C4-C5	-6.42	122.31	126.80
35	BB	1059	G	C4'-C3'-C2'	-6.42	96.18	102.60
35	BB	1274	A	C4'-C3'-C2'	-6.42	96.18	102.60
35	BB	1975	G	C6-N1-C2	6.42	128.95	125.10
1	AA	1066	C	C5-C4-N4	-6.42	115.71	120.20
34	BA	21	G	N3-C4-C5	6.42	131.81	128.60
1	AA	130	A	N1-C6-N6	6.41	122.45	118.60
1	AA	1307	U	N3-C4-O4	6.41	123.89	119.40
22	AV	58	A	C4-C5-C6	6.41	120.21	117.00
35	BB	308	G	C5-C6-O6	-6.41	124.75	128.60
35	BB	1149	G	C3'-C2'-C1'	6.41	106.63	101.50
35	BB	1972	G	O5'-C5'-C4'	-6.41	99.51	111.70
35	BB	2610	C	N3-C4-C5	-6.41	119.33	121.90
35	BB	2664	G	C4'-C3'-C2'	-6.41	96.19	102.60
35	BB	2761	A	C5-C6-N6	-6.41	118.57	123.70
1	AA	1037	C	C4'-C3'-C2'	-6.41	96.19	102.60
34	BA	63	C	C4'-C3'-C2'	-6.41	96.19	102.60
35	BB	144	A	C5-C6-N6	-6.41	118.57	123.70
35	BB	1083	U	C5'-C4'-C3'	-6.41	105.74	116.00
35	BB	1886	U	O4'-C1'-N1	6.41	113.33	108.20
35	BB	2576	G	C4-N9-C1'	6.41	134.83	126.50
1	AA	13	U	N1-C2-N3	-6.41	111.05	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	278	G	C6-N1-C2	6.41	128.94	125.10
1	AA	1002	G	C4-C5-N7	-6.41	108.24	110.80
1	AA	1337	G	C8-N9-C4	6.41	108.96	106.40
35	BB	143	C	O4'-C4'-C3'	-6.41	97.59	104.00
35	BB	610	C	N3-C4-N4	6.41	122.49	118.00
35	BB	681	G	C5-N7-C8	6.41	107.50	104.30
35	BB	938	G	C5-C6-N1	6.41	114.70	111.50
35	BB	960	A	N3-C4-C5	-6.41	122.31	126.80
35	BB	994	C	O4'-C1'-N1	6.41	113.33	108.20
35	BB	1510	G	N3-C2-N2	6.41	124.39	119.90
35	BB	1881	C	C6-N1-C2	6.41	122.86	120.30
35	BB	2388	A	P-O5'-C5'	6.41	131.15	120.90
20	AT	67	HIS	C-N-CA	6.41	137.72	121.70
35	BB	1545	A	C2-N3-C4	6.41	113.80	110.60
1	AA	583	A	C8-N9-C4	6.41	108.36	105.80
1	AA	707	U	C2-N3-C4	6.41	130.84	127.00
1	AA	1340	A	O4'-C1'-N9	6.41	113.33	108.20
35	BB	1425	G	C1'-O4'-C4'	6.41	115.02	109.90
35	BB	1932	A	C5-N7-C8	6.41	107.10	103.90
35	BB	2405	G	C2-N3-C4	6.41	115.10	111.90
44	BK	37	ASP	CB-CG-OD2	-6.41	112.53	118.30
1	AA	642	A	C8-N9-C4	-6.40	103.24	105.80
35	BB	178	G	C2-N3-C4	6.40	115.10	111.90
35	BB	546	U	C5'-C4'-O4'	6.40	116.78	109.10
35	BB	713	G	N7-C8-N9	-6.40	109.90	113.10
35	BB	757	G	P-O5'-C5'	6.40	131.15	120.90
35	BB	1026	G	C2-N3-C4	6.40	115.10	111.90
35	BB	2196	C	C1'-O4'-C4'	-6.40	104.78	109.90
1	AA	206	C	C6-N1-C2	6.40	122.86	120.30
1	AA	1201	A	C5-C6-N1	-6.40	114.50	117.70
3	AC	142	ARG	NE-CZ-NH2	-6.40	117.10	120.30
35	BB	86	G	C5-C6-O6	-6.40	124.76	128.60
35	BB	771	G	C8-N9-C4	-6.40	103.84	106.40
35	BB	1013	C	N3-C4-N4	6.40	122.48	118.00
35	BB	1229	C	O4'-C1'-N1	6.40	113.32	108.20
35	BB	1685	C	O4'-C4'-C3'	-6.40	97.60	104.00
35	BB	2080	A	C6-C5-N7	-6.40	127.82	132.30
35	BB	2635	A	N1-C2-N3	6.40	132.50	129.30
35	BB	2714	G	N3-C4-N9	6.40	129.84	126.00
35	BB	2834	G	P-O5'-C5'	-6.40	110.66	120.90
35	BB	332	A	N7-C8-N9	6.40	117.00	113.80
35	BB	544	C	O4'-C1'-N1	6.40	113.32	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	608	A	C8-N9-C4	-6.40	103.24	105.80
35	BB	629	G	N1-C2-N3	-6.40	120.06	123.90
35	BB	1898	U	O4'-C1'-N1	6.40	113.32	108.20
1	AA	235	C	C2-N1-C1'	6.40	125.84	118.80
7	AG	120	ALA	N-CA-CB	6.40	119.06	110.10
35	BB	102	U	N3-C4-O4	6.40	123.88	119.40
35	BB	291	G	C4'-C3'-C2'	-6.40	96.20	102.60
35	BB	2581	G	N1-C6-O6	6.40	123.74	119.90
35	BB	2674	G	C4-C5-C6	6.40	122.64	118.80
35	BB	2746	U	N1-C1'-C2'	-6.40	104.96	112.00
1	AA	474	G	OP1-P-OP2	-6.40	110.00	119.60
1	AA	1057	G	N1-C2-N3	-6.40	120.06	123.90
1	AA	1346	A	N9-C4-C5	6.40	108.36	105.80
35	BB	192	C	N1-C2-O2	6.40	122.74	118.90
35	BB	686	U	C2-N3-C4	6.40	130.84	127.00
35	BB	1445	G	O4'-C1'-N9	6.40	113.32	108.20
35	BB	1799	G	N7-C8-N9	6.40	116.30	113.10
35	BB	2027	G	C2-N3-C4	6.40	115.10	111.90
1	AA	336	A	C5'-C4'-O4'	-6.40	101.42	109.10
1	AA	532	A	C6-C5-N7	-6.40	127.82	132.30
1	AA	912	C	C5-C6-N1	6.40	124.20	121.00
35	BB	1053	C	O4'-C1'-N1	6.40	113.32	108.20
1	AA	1139	G	C4'-C3'-C2'	-6.39	96.21	102.60
34	BA	114	C	N3-C4-C5	6.39	124.46	121.90
35	BB	81	G	N9-C4-C5	-6.39	102.84	105.40
35	BB	372	G	C8-N9-C4	-6.39	103.84	106.40
35	BB	487	C	C1'-O4'-C4'	6.39	115.02	109.90
35	BB	523	C	C5-C4-N4	-6.39	115.72	120.20
35	BB	1182	G	O4'-C1'-N9	6.39	113.32	108.20
35	BB	1857	G	C4-C5-N7	6.39	113.36	110.80
35	BB	2273	A	N3-C4-N9	6.39	132.52	127.40
35	BB	2557	G	C5-C6-N1	-6.39	108.30	111.50
35	BB	2776	A	C5-N7-C8	6.39	107.10	103.90
1	AA	160	A	N1-C6-N6	6.39	122.44	118.60
1	AA	285	C	N3-C4-C5	-6.39	119.34	121.90
1	AA	305	G	C5-C6-N1	-6.39	108.30	111.50
1	AA	706	A	P-O5'-C5'	6.39	131.13	120.90
1	AA	962	C	N3-C4-C5	-6.39	119.34	121.90
1	AA	1087	G	N1-C2-N3	-6.39	120.06	123.90
1	AA	1093	A	N7-C8-N9	-6.39	110.60	113.80
1	AA	1234	C	N3-C4-C5	-6.39	119.34	121.90
1	AA	1292	G	C5-N7-C8	6.39	107.50	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	327	G	P-O3'-C3'	-6.39	112.03	119.70
35	BB	1109	C	N3-C4-C5	-6.39	119.34	121.90
35	BB	1185	G	C4-C5-N7	-6.39	108.24	110.80
35	BB	1709	U	C5-C4-O4	-6.39	122.06	125.90
35	BB	1889	A	C5-C6-N6	-6.39	118.59	123.70
35	BB	2324	U	C2-N3-C4	-6.39	123.17	127.00
35	BB	2355	G	C6-N1-C2	-6.39	121.27	125.10
35	BB	2392	A	N7-C8-N9	6.39	117.00	113.80
35	BB	2421	G	C8-N9-C4	6.39	108.96	106.40
35	BB	2536	G	C6-C5-N7	-6.39	126.56	130.40
35	BB	2697	G	N9-C1'-C2'	-6.39	104.97	112.00
35	BB	2892	G	C8-N9-C4	6.39	108.96	106.40
1	AA	117	G	O4'-C4'-C3'	-6.39	97.61	104.00
1	AA	236	A	O4'-C1'-N9	6.39	113.31	108.20
1	AA	609	A	O4'-C1'-N9	6.39	113.31	108.20
1	AA	1010	U	O4'-C1'-N1	6.39	113.31	108.20
1	AA	1021	A	C5-C6-N6	-6.39	118.59	123.70
1	AA	1146	A	C5-C6-N1	-6.39	114.50	117.70
1	AA	1182	G	C2-N3-C4	6.39	115.10	111.90
1	AA	1346	A	O4'-C1'-N9	6.39	113.31	108.20
35	BB	102	U	C2-N3-C4	6.39	130.83	127.00
35	BB	533	G	C8-N9-C4	-6.39	103.84	106.40
35	BB	853	C	C4'-C3'-C2'	-6.39	96.21	102.60
35	BB	1003	G	C4-C5-C6	6.39	122.64	118.80
35	BB	1688	U	O3'-P-O5'	-6.39	91.86	104.00
35	BB	1740	G	C2-N3-C4	-6.39	108.70	111.90
35	BB	1978	A	C8-N9-C4	6.39	108.36	105.80
35	BB	2662	A	C4-C5-C6	6.39	120.19	117.00
1	AA	759	A	O3'-P-O5'	6.39	116.14	104.00
1	AA	797	C	C6-N1-C1'	-6.39	113.13	120.80
1	AA	902	G	O4'-C1'-N9	6.39	113.31	108.20
3	AC	81	GLU	OE1-CD-OE2	-6.39	115.63	123.30
12	AL	118	VAL	CG1-CB-CG2	6.39	121.12	110.90
35	BB	493	G	C8-N9-C1'	6.39	135.31	127.00
35	BB	772	C	C6-N1-C2	6.39	122.86	120.30
35	BB	1138	G	O4'-C1'-N9	6.39	113.31	108.20
35	BB	1252	G	N7-C8-N9	6.39	116.30	113.10
35	BB	1547	C	C5'-C4'-C3'	-6.39	105.78	116.00
35	BB	1701	A	C6-C5-N7	-6.39	127.83	132.30
35	BB	2143	C	N3-C4-C5	-6.39	119.34	121.90
35	BB	2205	A	C4-C5-C6	6.39	120.19	117.00
35	BB	2279	G	N3-C4-N9	-6.39	122.17	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2352	A	C8-N9-C4	-6.39	103.24	105.80
35	BB	2518	A	N3-C4-C5	-6.39	122.33	126.80
34	BA	91	C	C1'-O4'-C4'	6.39	115.01	109.90
35	BB	1978	A	N1-C2-N3	6.39	132.49	129.30
35	BB	2174	C	O5'-C5'-C4'	-6.39	99.56	111.70
44	BK	29	HIS	N-CA-CB	6.39	122.10	110.60
1	AA	630	A	O4'-C1'-N9	6.39	113.31	108.20
1	AA	1311	A	P-O3'-C3'	-6.39	112.04	119.70
35	BB	825	A	C5-N7-C8	6.39	107.09	103.90
35	BB	1910	G	C5-C6-O6	-6.39	124.77	128.60
35	BB	2583	G	C5-C6-N1	-6.39	108.31	111.50
35	BB	2777	G	O4'-C1'-N9	6.39	113.31	108.20
35	BB	2893	A	N3-C4-N9	-6.39	122.29	127.40
1	AA	120	A	C5-C6-N6	-6.38	118.59	123.70
1	AA	444	G	C8-N9-C4	-6.38	103.85	106.40
1	AA	637	C	C4-C5-C6	6.38	120.59	117.40
1	AA	777	A	P-O5'-C5'	-6.38	110.69	120.90
1	AA	1207	G	C5-N7-C8	6.38	107.49	104.30
1	AA	1253	G	N7-C8-N9	-6.38	109.91	113.10
1	AA	1325	C	O4'-C1'-N1	6.38	113.31	108.20
34	BA	87	U	N1-C2-O2	6.38	127.27	122.80
35	BB	90	U	C5-C4-O4	-6.38	122.07	125.90
35	BB	103	A	C6-N1-C2	6.38	122.43	118.60
35	BB	1027	A	O4'-C1'-N9	6.38	113.31	108.20
35	BB	1189	A	N9-C4-C5	6.38	108.35	105.80
35	BB	1426	G	N1-C2-N3	-6.38	120.07	123.90
35	BB	2021	C	O4'-C1'-N1	6.38	113.31	108.20
35	BB	2410	G	C5-C6-O6	-6.38	124.77	128.60
35	BB	2490	G	C4-C5-C6	6.38	122.63	118.80
35	BB	2674	G	P-O3'-C3'	-6.38	112.04	119.70
1	AA	595	A	OP1-P-OP2	-6.38	110.03	119.60
35	BB	425	G	N1-C2-N3	-6.38	120.07	123.90
35	BB	1115	G	C8-N9-C4	-6.38	103.85	106.40
1	AA	29	U	C2-N1-C1'	-6.38	110.04	117.70
1	AA	303	A	C5-C6-N1	-6.38	114.51	117.70
1	AA	504	C	C5-C4-N4	-6.38	115.73	120.20
35	BB	44	A	N9-C1'-C2'	-6.38	104.98	112.00
35	BB	532	A	O4'-C1'-N9	6.38	113.31	108.20
35	BB	845	A	C6-N1-C2	-6.38	114.77	118.60
35	BB	1021	A	N9-C4-C5	-6.38	103.25	105.80
35	BB	1109	C	C5-C4-N4	-6.38	115.73	120.20
35	BB	1170	C	C5-C6-N1	6.38	124.19	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1447	C	O4'-C1'-N1	6.38	113.31	108.20
35	BB	2578	G	N3-C4-C5	-6.38	125.41	128.60
35	BB	1013	C	N1-C2-N3	-6.38	114.73	119.20
35	BB	1396	U	C4'-C3'-C2'	6.38	108.98	102.60
35	BB	1989	G	C3'-C2'-C1'	-6.38	96.40	101.50
35	BB	2900	A	C4-C5-C6	6.38	120.19	117.00
39	BF	127	TYR	CB-CG-CD1	6.38	124.83	121.00
1	AA	430	A	C5-C6-N1	-6.38	114.51	117.70
1	AA	1369	C	C5-C4-N4	-6.38	115.73	120.20
35	BB	389	G	C5'-C4'-O4'	6.38	116.75	109.10
35	BB	552	U	O4'-C1'-N1	6.38	113.30	108.20
35	BB	789	A	C8-N9-C4	-6.38	103.25	105.80
35	BB	1230	A	C6-C5-N7	-6.38	127.83	132.30
35	BB	1655	A	C4-C5-C6	6.38	120.19	117.00
35	BB	2083	G	C4-C5-C6	6.38	122.63	118.80
35	BB	2450	A	N7-C8-N9	-6.38	110.61	113.80
1	AA	210	C	C5-C4-N4	-6.38	115.74	120.20
1	AA	952	U	N1-C2-N3	6.38	118.73	114.90
1	AA	1074	G	C8-N9-C4	-6.38	103.85	106.40
35	BB	159	G	C8-N9-C4	-6.38	103.85	106.40
35	BB	477	A	N1-C2-N3	-6.38	126.11	129.30
35	BB	546	U	C6-N1-C2	-6.38	117.17	121.00
35	BB	559	G	N1-C2-N3	-6.38	120.07	123.90
35	BB	797	G	C8-N9-C4	-6.38	103.85	106.40
35	BB	1057	A	C3'-C2'-C1'	6.38	106.60	101.50
35	BB	1096	A	C6-C5-N7	-6.38	127.84	132.30
35	BB	1431	A	C8-N9-C4	6.38	108.35	105.80
35	BB	1751	U	C2-N1-C1'	6.38	125.35	117.70
35	BB	2168	G	C5'-C4'-C3'	6.38	126.20	116.00
35	BB	2286	G	C4-C5-N7	-6.38	108.25	110.80
35	BB	2469	A	N7-C8-N9	-6.38	110.61	113.80
35	BB	2535	G	N7-C8-N9	-6.38	109.91	113.10
35	BB	76	C	C5-C4-N4	-6.38	115.74	120.20
35	BB	1606	C	C2-N3-C4	6.38	123.09	119.90
35	BB	2061	G	C4-C5-C6	6.38	122.62	118.80
35	BB	2825	G	N3-C2-N2	6.38	124.36	119.90
1	AA	297	G	N3-C2-N2	6.37	124.36	119.90
1	AA	456	A	N1-C2-N3	6.37	132.49	129.30
22	AV	19	G	C5-C6-O6	-6.37	124.78	128.60
35	BB	27	G	O4'-C4'-C3'	6.37	111.20	106.10
35	BB	446	G	N9-C4-C5	-6.37	102.85	105.40
35	BB	1124	G	O4'-C1'-N9	6.37	113.30	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	31	G	C8-N9-C4	-6.37	103.85	106.40
1	AA	497	G	C5-C6-O6	-6.37	124.78	128.60
1	AA	947	G	C5-C6-N1	-6.37	108.31	111.50
1	AA	1499	A	P-O5'-C5'	6.37	131.09	120.90
35	BB	204	A	N1-C2-N3	-6.37	126.11	129.30
35	BB	507	A	C6-N1-C2	-6.37	114.78	118.60
35	BB	1079	C	P-O5'-C5'	-6.37	110.71	120.90
35	BB	1532	A	C8-N9-C4	-6.37	103.25	105.80
35	BB	1872	A	C5-C6-N6	-6.37	118.60	123.70
35	BB	1882	U	N3-C2-O2	-6.37	117.74	122.20
35	BB	2216	G	N1-C2-N2	6.37	121.94	116.20
35	BB	2534	A	C3'-C2'-C1'	-6.37	96.40	101.50
35	BB	2542	A	C4-C5-N7	-6.37	107.51	110.70
1	AA	1479	C	C2-N3-C4	6.37	123.08	119.90
35	BB	1065	U	C6-N1-C2	6.37	124.82	121.00
35	BB	2375	G	C6-N1-C2	-6.37	121.28	125.10
1	AA	104	G	C5-C6-O6	-6.37	124.78	128.60
1	AA	310	G	C2-N3-C4	-6.37	108.72	111.90
1	AA	739	C	C5-C6-N1	6.37	124.18	121.00
35	BB	281	C	C4-C5-C6	6.37	120.58	117.40
35	BB	480	A	C4-C5-N7	-6.37	107.52	110.70
35	BB	782	A	O4'-C1'-N9	6.37	113.30	108.20
35	BB	893	C	N3-C4-C5	-6.37	119.35	121.90
35	BB	1780	A	C5-C6-N1	-6.37	114.52	117.70
37	BD	46	ARG	NE-CZ-NH2	-6.37	117.12	120.30
1	AA	328	C	C1'-O4'-C4'	-6.37	104.81	109.90
1	AA	626	G	N1-C6-O6	6.37	123.72	119.90
1	AA	795	C	C6-N1-C2	-6.37	117.75	120.30
4	AD	64	TYR	CB-CG-CD2	-6.37	117.18	121.00
35	BB	885	C	C5'-C4'-O4'	6.37	116.74	109.10
35	BB	1344	U	P-O3'-C3'	-6.37	112.06	119.70
35	BB	1820	U	C5-C6-N1	-6.37	119.52	122.70
35	BB	2050	C	C2-N3-C4	6.37	123.08	119.90
35	BB	2156	G	C3'-C2'-C1'	-6.37	96.41	101.50
35	BB	2335	A	C4-C5-N7	-6.37	107.52	110.70
1	AA	889	A	N3-C4-C5	-6.37	122.34	126.80
34	BA	7	G	N7-C8-N9	-6.37	109.92	113.10
35	BB	1459	G	N1-C2-N3	-6.37	120.08	123.90
35	BB	1889	A	C4-C5-C6	6.37	120.18	117.00
35	BB	2494	G	C5-C6-O6	-6.37	124.78	128.60
35	BB	2533	U	N3-C4-C5	6.37	118.42	114.60
35	BB	2772	C	C6-N1-C2	-6.37	117.75	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	2841	C	C6-N1-C2	-6.37	117.75	120.30
41	BH	7	ASP	CB-CG-OD1	-6.37	112.57	118.30
50	BQ	85	ALA	N-CA-CB	6.37	119.01	110.10
1	AA	413	G	P-O3'-C3'	6.36	127.33	119.70
1	AA	767	A	N3-C4-C5	-6.36	122.35	126.80
1	AA	1375	A	C6-C5-N7	-6.36	127.84	132.30
1	AA	1401	G	N3-C2-N2	6.36	124.35	119.90
3	AC	92	ASP	CB-CG-OD2	6.36	124.03	118.30
35	BB	21	A	N1-C2-N3	-6.36	126.12	129.30
35	BB	189	G	O5'-P-OP2	-6.36	99.97	105.70
35	BB	507	A	N3-C4-C5	-6.36	122.34	126.80
35	BB	1522	A	P-O3'-C3'	6.36	127.34	119.70
35	BB	1869	G	C6-N1-C2	6.36	128.92	125.10
1	AA	32	A	C5-N7-C8	6.36	107.08	103.90
1	AA	539	A	C5-C6-N1	-6.36	114.52	117.70
2	AB	212	TYR	CG-CD2-CE2	6.36	126.39	121.30
35	BB	262	A	C5-N7-C8	6.36	107.08	103.90
35	BB	1084	A	P-O5'-C5'	6.36	131.08	120.90
35	BB	1148	U	C1'-O4'-C4'	6.36	114.99	109.90
52	BS	54	ALA	N-CA-CB	6.36	119.01	110.10
1	AA	345	C	C4-C5-C6	6.36	120.58	117.40
1	AA	1196	A	C5-C6-N1	-6.36	114.52	117.70
1	AA	1310	G	C2-N3-C4	6.36	115.08	111.90
1	AA	1482	G	C1'-O4'-C4'	-6.36	104.81	109.90
22	AV	39	G	N7-C8-N9	6.36	116.28	113.10
35	BB	81	G	N1-C2-N3	6.36	127.72	123.90
35	BB	1278	C	OP1-P-OP2	-6.36	110.06	119.60
35	BB	1767	G	C6-C5-N7	-6.36	126.58	130.40
35	BB	2280	G	C6-N1-C2	6.36	128.92	125.10
35	BB	2790	U	P-O5'-C5'	6.36	131.08	120.90
1	AA	1231	G	O4'-C1'-N9	6.36	113.29	108.20
22	AV	18	G	C5-C6-O6	-6.36	124.78	128.60
35	BB	1232	G	C2-N3-C4	6.36	115.08	111.90
35	BB	1572	A	C4-C5-C6	6.36	120.18	117.00
35	BB	1817	G	C5-C6-O6	-6.36	124.78	128.60
35	BB	2261	C	C2-N1-C1'	6.36	125.80	118.80
35	BB	2606	C	N3-C4-C5	-6.36	119.36	121.90
35	BB	2673	G	C6-C5-N7	-6.36	126.58	130.40
35	BB	2780	G	C5-C6-N1	-6.36	108.32	111.50
1	AA	1153	G	N7-C8-N9	6.36	116.28	113.10
1	AA	1166	G	C4-C5-C6	6.36	122.61	118.80
1	AA	1525	G	C6-N1-C2	6.36	128.91	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	359	G	C1'-O4'-C4'	6.36	114.99	109.90
35	BB	544	C	C2-N3-C4	6.36	123.08	119.90
35	BB	554	U	P-O3'-C3'	6.36	127.33	119.70
35	BB	810	U	N3-C4-O4	6.36	123.85	119.40
35	BB	827	U	C5-C4-O4	-6.36	122.09	125.90
35	BB	1137	G	N1-C6-O6	6.36	123.71	119.90
35	BB	2219	U	C5-C4-O4	-6.36	122.09	125.90
35	BB	2419	U	P-O3'-C3'	-6.36	112.07	119.70
35	BB	2485	G	N1-C2-N2	-6.36	110.48	116.20
35	BB	2667	C	N3-C4-N4	6.36	122.45	118.00
1	AA	1021	A	C2-N3-C4	-6.36	107.42	110.60
1	AA	1191	A	C4-C5-N7	-6.36	107.52	110.70
1	AA	1393	U	N3-C2-O2	6.36	126.65	122.20
30	B5	53	ARG	NE-CZ-NH2	-6.36	117.12	120.30
34	BA	58	A	C4-C5-C6	6.36	120.18	117.00
35	BB	8	C	C6-N1-C2	-6.36	117.76	120.30
35	BB	658	U	C2-N3-C4	-6.36	123.19	127.00
35	BB	799	G	C4-N9-C1'	6.36	134.76	126.50
35	BB	1017	G	C4'-C3'-C2'	-6.36	96.24	102.60
35	BB	1317	G	C4-C5-C6	6.36	122.61	118.80
35	BB	2401	U	O4'-C1'-N1	6.36	113.28	108.20
35	BB	2418	A	C4-C5-C6	6.36	120.18	117.00
1	AA	177	G	O4'-C1'-N9	6.35	113.28	108.20
1	AA	246	A	N7-C8-N9	-6.35	110.62	113.80
1	AA	537	G	O4'-C1'-N9	6.35	113.28	108.20
35	BB	1128	G	N1-C6-O6	6.35	123.71	119.90
35	BB	1457	U	C4-C5-C6	-6.35	115.89	119.70
1	AA	631	C	O4'-C1'-N1	6.35	113.28	108.20
35	BB	27	G	C2-N3-C4	-6.35	108.72	111.90
35	BB	359	G	N3-C2-N2	6.35	124.35	119.90
35	BB	482	A	C6-C5-N7	-6.35	127.85	132.30
35	BB	1040	A	N7-C8-N9	-6.35	110.62	113.80
35	BB	1291	C	C2-N1-C1'	6.35	125.79	118.80
35	BB	1965	C	C3'-C2'-C1'	-6.35	96.42	101.50
35	BB	2060	A	C5-C6-N1	-6.35	114.52	117.70
35	BB	2631	G	C6-C5-N7	-6.35	126.59	130.40
35	BB	2654	A	C1'-O4'-C4'	6.35	114.98	109.90
35	BB	2714	G	N7-C8-N9	-6.35	109.92	113.10
1	AA	69	G	C5'-C4'-O4'	6.35	116.72	109.10
1	AA	385	C	N3-C4-C5	-6.35	119.36	121.90
1	AA	934	C	C5-C6-N1	-6.35	117.83	121.00
1	AA	1343	G	N1-C2-N3	-6.35	120.09	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	151	C	C6-N1-C2	-6.35	117.76	120.30
35	BB	910	A	O4'-C1'-N9	6.35	113.28	108.20
35	BB	1076	C	C2-N3-C4	6.35	123.08	119.90
35	BB	1238	G	C1'-O4'-C4'	6.35	114.98	109.90
1	AA	331	G	N9-C1'-C2'	-6.35	105.02	112.00
1	AA	566	G	C8-N9-C4	-6.35	103.86	106.40
1	AA	914	A	C5-C6-N1	-6.35	114.53	117.70
1	AA	1092	A	O4'-C1'-N9	6.35	113.28	108.20
1	AA	1430	A	P-O3'-C3'	-6.35	112.08	119.70
35	BB	923	G	C5-C6-O6	-6.35	124.79	128.60
35	BB	1036	G	C8-N9-C4	-6.35	103.86	106.40
35	BB	1177	G	O4'-C1'-N9	6.35	113.28	108.20
35	BB	2019	A	C4-C5-C6	6.35	120.17	117.00
35	BB	2099	U	P-O3'-C3'	-6.35	112.08	119.70
35	BB	2217	G	C5-N7-C8	6.35	107.47	104.30
35	BB	2264	C	N3-C4-C5	-6.35	119.36	121.90
35	BB	2737	G	N3-C2-N2	6.35	124.34	119.90
1	AA	293	G	C6-N1-C2	6.35	128.91	125.10
1	AA	1383	C	P-O3'-C3'	-6.35	112.08	119.70
16	AP	14	ARG	N-CA-CB	6.35	122.03	110.60
35	BB	818	G	N7-C8-N9	6.35	116.27	113.10
35	BB	941	A	C5-C6-N1	-6.35	114.53	117.70
35	BB	1143	A	C5-N7-C8	6.35	107.07	103.90
35	BB	1171	G	N3-C4-C5	-6.35	125.43	128.60
35	BB	1332	G	N3-C2-N2	6.35	124.34	119.90
35	BB	1750	G	N1-C2-N3	-6.35	120.09	123.90
35	BB	1841	U	C5-C4-O4	6.35	129.71	125.90
35	BB	2061	G	C8-N9-C1'	-6.35	118.75	127.00
35	BB	869	G	C2-N3-C4	6.35	115.07	111.90
35	BB	1368	G	C6-C5-N7	-6.35	126.59	130.40
35	BB	1388	G	O5'-C5'-C4'	-6.35	99.64	111.70
35	BB	2126	A	OP1-P-OP2	-6.35	110.08	119.60
1	AA	56	U	C6-N1-C2	6.34	124.81	121.00
1	AA	649	A	C4-C5-N7	-6.34	107.53	110.70
1	AA	1482	G	P-O5'-C5'	-6.34	110.75	120.90
35	BB	135	U	N1-C2-N3	-6.34	111.09	114.90
35	BB	783	A	C2-N3-C4	-6.34	107.43	110.60
35	BB	993	G	C6-N1-C2	6.34	128.91	125.10
35	BB	1081	U	C5'-C4'-O4'	-6.34	101.49	109.10
35	BB	1830	C	C5-C4-N4	-6.34	115.76	120.20
35	BB	2270	A	N7-C8-N9	6.34	116.97	113.80
35	BB	2515	C	C4-C5-C6	6.34	120.57	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2535	G	C5-C6-O6	-6.34	124.79	128.60
1	AA	1297	G	C5-C6-N1	-6.34	108.33	111.50
1	AA	1411	C	N3-C4-C5	-6.34	119.36	121.90
1	AA	1486	G	C4-C5-C6	6.34	122.61	118.80
35	BB	244	A	N7-C8-N9	-6.34	110.63	113.80
35	BB	1378	A	N7-C8-N9	-6.34	110.63	113.80
35	BB	1825	U	N3-C2-O2	6.34	126.64	122.20
1	AA	72	A	N1-C6-N6	6.34	122.41	118.60
1	AA	587	G	N1-C6-O6	6.34	123.70	119.90
1	AA	1014	A	O4'-C1'-N9	6.34	113.27	108.20
1	AA	1223	C	C5-C4-N4	-6.34	115.76	120.20
1	AA	1397	C	N3-C4-C5	-6.34	119.36	121.90
35	BB	154	U	C6-N1-C2	-6.34	117.19	121.00
35	BB	946	C	C5-C4-N4	-6.34	115.76	120.20
35	BB	1004	U	C4'-C3'-C2'	-6.34	96.26	102.60
35	BB	1226	A	C8-N9-C4	-6.34	103.26	105.80
35	BB	2004	G	C3'-C2'-C1'	6.34	106.57	101.50
35	BB	2167	U	P-O3'-C3'	6.34	127.31	119.70
35	BB	2177	C	C2-N3-C4	6.34	123.07	119.90
35	BB	2773	C	C5-C4-N4	-6.34	115.76	120.20
1	AA	503	C	N3-C4-N4	6.34	122.44	118.00
1	AA	959	A	C4-C5-C6	6.34	120.17	117.00
35	BB	88	G	N1-C6-O6	6.34	123.70	119.90
35	BB	420	C	N3-C4-N4	6.34	122.44	118.00
35	BB	472	A	N7-C8-N9	-6.34	110.63	113.80
35	BB	1481	U	O4'-C1'-N1	6.34	113.27	108.20
35	BB	2040	G	C6-C5-N7	-6.34	126.60	130.40
35	BB	2047	C	O4'-C1'-N1	6.34	113.27	108.20
35	BB	2163	A	C4-C5-N7	-6.34	107.53	110.70
1	AA	167	A	P-O3'-C3'	-6.34	112.09	119.70
1	AA	386	C	N1-C2-O2	-6.34	115.10	118.90
1	AA	845	A	O4'-C1'-N9	6.34	113.27	108.20
1	AA	1497	G	C6-N1-C2	6.34	128.90	125.10
35	BB	73	A	C8-N9-C4	-6.34	103.27	105.80
35	BB	1142	A	C5'-C4'-O4'	6.34	116.70	109.10
35	BB	1509	A	C4-C5-N7	-6.34	107.53	110.70
35	BB	1532	A	N3-C4-N9	6.34	132.47	127.40
35	BB	2798	U	N1-C2-N3	6.34	118.70	114.90
1	AA	943	U	C5-C4-O4	-6.34	122.10	125.90
1	AA	1182	G	N7-C8-N9	6.34	116.27	113.10
35	BB	173	A	N9-C1'-C2'	-6.34	105.03	112.00
35	BB	578	G	N7-C8-N9	6.34	116.27	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1252	G	N1-C2-N3	-6.34	120.10	123.90
35	BB	1470	A	C5-C6-N6	-6.34	118.63	123.70
35	BB	1614	A	C6-C5-N7	-6.34	127.86	132.30
35	BB	1701	A	C2-N3-C4	-6.34	107.43	110.60
35	BB	1949	G	C5-C6-N1	-6.34	108.33	111.50
35	BB	2402	U	N3-C4-O4	6.34	123.83	119.40
35	BB	2502	G	N7-C8-N9	-6.34	109.93	113.10
1	AA	98	A	C5-N7-C8	6.33	107.07	103.90
1	AA	139	A	O4'-C1'-N9	6.33	113.27	108.20
1	AA	731	G	C5-C6-O6	-6.33	124.80	128.60
35	BB	10	A	N7-C8-N9	-6.33	110.63	113.80
35	BB	1393	A	OP1-P-OP2	-6.33	110.10	119.60
35	BB	1577	C	C5-C4-N4	-6.33	115.77	120.20
35	BB	2139	U	O4'-C1'-N1	6.33	113.27	108.20
35	BB	2472	G	O4'-C1'-N9	6.33	113.27	108.20
35	BB	2813	A	C3'-C2'-C1'	6.33	106.57	101.50
35	BB	2889	C	N3-C4-C5	-6.33	119.37	121.90
1	AA	668	G	C6-C5-N7	-6.33	126.60	130.40
1	AA	1023	U	N3-C4-O4	-6.33	114.97	119.40
1	AA	1181	G	O4'-C1'-N9	6.33	113.27	108.20
35	BB	391	A	O4'-C1'-N9	6.33	113.27	108.20
35	BB	773	U	O4'-C1'-N1	6.33	113.27	108.20
46	BM	40	ARG	NE-CZ-NH2	6.33	123.47	120.30
1	AA	227	G	O4'-C1'-N9	6.33	113.27	108.20
1	AA	550	G	N1-C2-N3	-6.33	120.10	123.90
1	AA	791	G	C5-C6-O6	-6.33	124.80	128.60
3	AC	164	THR	CA-CB-CG2	-6.33	103.53	112.40
5	AE	19	ARG	NE-CZ-NH2	-6.33	117.13	120.30
35	BB	264	C	C6-N1-C2	-6.33	117.77	120.30
35	BB	808	G	O4'-C1'-N9	6.33	113.27	108.20
35	BB	1496	A	N7-C8-N9	6.33	116.97	113.80
35	BB	2530	A	O4'-C4'-C3'	-6.33	97.67	104.00
1	AA	1099	G	C3'-C2'-C1'	6.33	106.56	101.50
34	BA	115	A	C8-N9-C4	-6.33	103.27	105.80
35	BB	1298	C	N3-C4-C5	-6.33	119.37	121.90
35	BB	1811	G	N3-C4-N9	-6.33	122.20	126.00
35	BB	1951	U	N1-C2-N3	-6.33	111.10	114.90
35	BB	2556	C	O4'-C1'-N1	6.33	113.26	108.20
37	BD	43	ASP	CB-CG-OD1	-6.33	112.60	118.30
1	AA	57	G	C8-N9-C4	-6.33	103.87	106.40
1	AA	548	G	O4'-C1'-N9	6.33	113.26	108.20
34	BA	47	C	O4'-C1'-N1	6.33	113.26	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	481	G	C3'-C2'-C1'	-6.33	96.44	101.50
35	BB	577	G	O4'-C1'-N9	6.33	113.26	108.20
35	BB	707	G	N3-C4-N9	6.33	129.80	126.00
35	BB	805	G	C6-C5-N7	-6.33	126.60	130.40
35	BB	1010	A	C4-C5-N7	-6.33	107.54	110.70
35	BB	1464	G	O4'-C4'-C3'	-6.33	97.67	104.00
35	BB	2079	U	C5-C6-N1	6.33	125.86	122.70
35	BB	2149	U	C6-N1-C2	-6.33	117.20	121.00
35	BB	2166	U	N1-C2-N3	-6.33	111.10	114.90
1	AA	163	C	N3-C4-C5	-6.33	119.37	121.90
1	AA	500	G	N3-C2-N2	6.33	124.33	119.90
1	AA	1505	G	N3-C4-N9	6.33	129.80	126.00
22	AV	69	G	C5-N7-C8	6.33	107.46	104.30
35	BB	396	G	N3-C2-N2	6.33	124.33	119.90
35	BB	496	G	N9-C4-C5	-6.33	102.87	105.40
35	BB	956	G	N3-C2-N2	6.33	124.33	119.90
35	BB	1166	G	N1-C6-O6	6.33	123.70	119.90
1	AA	334	C	N1-C2-O2	-6.33	115.11	118.90
1	AA	440	C	N3-C4-N4	6.33	122.43	118.00
1	AA	734	G	N1-C6-O6	6.33	123.70	119.90
1	AA	771	G	N1-C2-N2	-6.33	110.51	116.20
1	AA	1000	A	C2-N3-C4	-6.33	107.44	110.60
1	AA	1332	A	N1-C2-N3	6.33	132.46	129.30
1	AA	1422	G	C4'-C3'-C2'	-6.33	96.28	102.60
35	BB	151	C	C4-C5-C6	6.33	120.56	117.40
35	BB	177	G	O4'-C1'-N9	6.33	113.26	108.20
35	BB	247	G	N1-C2-N3	-6.33	120.11	123.90
35	BB	906	U	C3'-C2'-C1'	6.33	106.56	101.50
35	BB	1276	A	C5'-C4'-O4'	6.33	116.69	109.10
35	BB	1382	G	O5'-P-OP1	-6.33	100.01	105.70
35	BB	1555	G	O4'-C1'-N9	6.33	113.26	108.20
35	BB	2353	G	N9-C4-C5	-6.33	102.87	105.40
35	BB	2452	C	C6-N1-C2	6.33	122.83	120.30
35	BB	2882	A	O4'-C1'-N9	6.33	113.26	108.20
35	BB	825	A	C4'-C3'-C2'	-6.32	96.28	102.60
35	BB	1021	A	N7-C8-N9	6.32	116.96	113.80
35	BB	1216	G	C5-C6-O6	-6.32	124.81	128.60
35	BB	2094	A	P-O5'-C5'	6.32	131.02	120.90
35	BB	2492	U	P-O3'-C3'	-6.32	112.11	119.70
35	BB	2660	A	O4'-C1'-N9	6.32	113.26	108.20
1	AA	1028	C	N3-C4-N4	6.32	122.42	118.00
34	BA	51	G	N1-C6-O6	6.32	123.69	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1928	A	O4'-C1'-N9	6.32	113.26	108.20
35	BB	2397	G	N3-C4-C5	6.32	131.76	128.60
1	AA	35	G	C4-C5-N7	6.32	113.33	110.80
1	AA	1340	A	O4'-C4'-C3'	-6.32	97.68	104.00
22	AV	5	A	C5'-C4'-C3'	6.32	126.11	116.00
30	B5	92	ALA	N-CA-CB	6.32	118.95	110.10
35	BB	677	A	N3-C4-C5	-6.32	122.38	126.80
35	BB	1033	U	C2-N1-C1'	-6.32	110.11	117.70
35	BB	1524	G	N1-C6-O6	6.32	123.69	119.90
35	BB	1651	G	C5-N7-C8	6.32	107.46	104.30
35	BB	1733	G	C8-N9-C4	-6.32	103.87	106.40
35	BB	2626	C	O4'-C1'-N1	6.32	113.26	108.20
1	AA	569	C	P-O3'-C3'	-6.32	112.12	119.70
1	AA	726	C	N3-C4-C5	-6.32	119.37	121.90
1	AA	502	A	O4'-C4'-C3'	-6.32	97.68	104.00
1	AA	591	U	C4'-C3'-C2'	-6.32	96.28	102.60
1	AA	685	G	C8-N9-C4	6.32	108.93	106.40
1	AA	964	A	N3-C4-C5	-6.32	122.38	126.80
1	AA	1532	U	P-O5'-C5'	6.32	131.01	120.90
10	AJ	37	ARG	N-CA-CB	6.32	121.97	110.60
35	BB	500	G	C5-N7-C8	6.32	107.46	104.30
35	BB	691	C	C2-N3-C4	6.32	123.06	119.90
35	BB	1371	G	C4-C5-N7	6.32	113.33	110.80
35	BB	1636	U	N1-C2-O2	-6.32	118.38	122.80
1	AA	200	G	N7-C8-N9	-6.32	109.94	113.10
1	AA	350	G	O4'-C1'-N9	6.32	113.25	108.20
1	AA	1262	C	OP1-P-OP2	-6.32	110.13	119.60
1	AA	1349	A	C8-N9-C4	-6.32	103.27	105.80
9	AI	83	THR	CA-CB-CG2	-6.32	103.56	112.40
22	AV	6	C	O4'-C1'-N1	6.32	113.25	108.20
22	AV	9	A	C4-C5-C6	6.32	120.16	117.00
35	BB	58	G	O4'-C1'-N9	6.32	113.25	108.20
35	BB	221	A	N3-C4-C5	-6.32	122.38	126.80
35	BB	1244	A	P-O3'-C3'	-6.32	112.12	119.70
35	BB	1441	G	N1-C6-O6	6.32	123.69	119.90
35	BB	1587	G	N9-C4-C5	6.32	107.93	105.40
35	BB	1785	A	C8-N9-C4	6.32	108.33	105.80
35	BB	2101	A	C1'-O4'-C4'	6.32	114.95	109.90
35	BB	2172	U	P-O3'-C3'	-6.32	112.12	119.70
35	BB	2228	G	C6-C5-N7	-6.32	126.61	130.40
35	BB	2545	G	C8-N9-C4	6.32	108.93	106.40
1	AA	324	G	C4-C5-N7	6.31	113.33	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	343	U	N3-C4-O4	6.31	123.82	119.40
1	AA	1495	U	O4'-C1'-N1	6.31	113.25	108.20
35	BB	474	G	C6-C5-N7	-6.31	126.61	130.40
35	BB	1009	A	C6-N1-C2	6.31	122.39	118.60
35	BB	1156	A	N9-C4-C5	-6.31	103.27	105.80
35	BB	2747	G	C5-C6-O6	-6.31	124.81	128.60
1	AA	612	C	O4'-C1'-N1	6.31	113.25	108.20
1	AA	1265	C	C4-C5-C6	6.31	120.56	117.40
35	BB	2633	G	C5-C6-O6	-6.31	124.81	128.60
1	AA	101	A	O4'-C1'-N9	6.31	113.25	108.20
1	AA	1061	G	O4'-C1'-N9	6.31	113.25	108.20
34	BA	51	G	P-O5'-C5'	-6.31	110.80	120.90
35	BB	360	U	C4'-C3'-C2'	-6.31	96.29	102.60
35	BB	974	G	C5-C6-N1	-6.31	108.34	111.50
35	BB	2253	G	N7-C8-N9	6.31	116.25	113.10
1	AA	411	A	C2-N3-C4	-6.31	107.45	110.60
1	AA	778	G	C6-N1-C2	6.31	128.89	125.10
35	BB	75	G	O4'-C1'-N9	6.31	113.25	108.20
35	BB	503	A	N3-C4-C5	-6.31	122.38	126.80
35	BB	724	U	N1-C2-O2	-6.31	118.38	122.80
35	BB	728	G	C2-N3-C4	6.31	115.06	111.90
35	BB	826	U	C4-C5-C6	6.31	123.49	119.70
35	BB	883	G	C2-N3-C4	-6.31	108.75	111.90
35	BB	1725	U	N3-C4-O4	6.31	123.82	119.40
35	BB	1847	A	C3'-C2'-C1'	6.31	106.55	101.50
35	BB	2122	U	C5-C4-O4	-6.31	122.11	125.90
35	BB	2325	G	C4-C5-N7	6.31	113.32	110.80
35	BB	2344	U	N1-C2-N3	6.31	118.69	114.90
35	BB	2735	G	C8-N9-C4	-6.31	103.88	106.40
35	BB	108	G	C6-C5-N7	-6.31	126.62	130.40
35	BB	1340	U	C4'-C3'-C2'	-6.31	96.29	102.60
35	BB	1460	U	N3-C4-C5	-6.31	110.82	114.60
35	BB	2045	C	O4'-C1'-N1	6.31	113.25	108.20
35	BB	2095	A	N1-C2-N3	6.31	132.45	129.30
35	BB	2206	C	O4'-C1'-N1	6.31	113.25	108.20
35	BB	2276	G	N1-C6-O6	6.31	123.68	119.90
35	BB	2630	G	N3-C2-N2	6.31	124.32	119.90
35	BB	2895	G	N3-C2-N2	6.31	124.31	119.90
1	AA	1274	A	O4'-C1'-N9	6.31	113.25	108.20
30	B5	130	VAL	CA-CB-CG2	6.31	120.36	110.90
35	BB	805	G	C6-N1-C2	6.31	128.88	125.10
35	BB	1600	C	C5'-C4'-C3'	-6.31	105.91	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2212	A	N3-C4-C5	-6.31	122.39	126.80
1	AA	226	G	O4'-C1'-N9	6.30	113.24	108.20
1	AA	699	C	C6-N1-C2	6.30	122.82	120.30
1	AA	818	G	C5'-C4'-O4'	6.30	116.67	109.10
1	AA	1058	G	C5-C6-O6	-6.30	124.82	128.60
35	BB	671	C	C4'-C3'-C2'	6.30	108.91	102.60
35	BB	1675	C	N1-C2-O2	6.30	122.68	118.90
35	BB	1804	C	N3-C4-N4	6.30	122.41	118.00
35	BB	1835	G	C4-C5-C6	6.30	122.58	118.80
35	BB	1872	A	O4'-C1'-N9	6.30	113.24	108.20
35	BB	2436	G	C6-C5-N7	-6.30	126.62	130.40
35	BB	2635	A	C8-N9-C4	-6.30	103.28	105.80
35	BB	2770	G	C4-C5-N7	6.30	113.32	110.80
35	BB	2850	A	C8-N9-C4	6.30	108.32	105.80
46	BM	55	ARG	NE-CZ-NH1	-6.30	117.15	120.30
34	BA	76	G	C6-N1-C2	6.30	128.88	125.10
35	BB	472	A	C4-C5-C6	6.30	120.15	117.00
35	BB	1564	C	O4'-C1'-N1	6.30	113.24	108.20
35	BB	2345	G	N7-C8-N9	-6.30	109.95	113.10
35	BB	2489	U	C4'-C3'-C2'	6.30	108.90	102.60
35	BB	2774	C	C6-N1-C2	6.30	122.82	120.30
36	BC	156	SER	N-CA-CB	6.30	119.95	110.50
1	AA	15	G	N3-C4-C5	-6.30	125.45	128.60
1	AA	1449	C	C6-N1-C2	-6.30	117.78	120.30
34	BA	15	A	N1-C2-N3	6.30	132.45	129.30
35	BB	493	G	O4'-C1'-N9	6.30	113.24	108.20
35	BB	577	G	P-O5'-C5'	-6.30	110.82	120.90
35	BB	863	A	C4-C5-C6	6.30	120.15	117.00
35	BB	908	C	N1-C2-O2	-6.30	115.12	118.90
35	BB	989	G	C4-C5-C6	6.30	122.58	118.80
35	BB	1252	G	N9-C4-C5	6.30	107.92	105.40
35	BB	1362	C	N1-C2-N3	-6.30	114.79	119.20
35	BB	1753	G	C8-N9-C4	-6.30	103.88	106.40
35	BB	2128	G	N1-C2-N3	-6.30	120.12	123.90
35	BB	2193	G	N1-C2-N3	-6.30	120.12	123.90
1	AA	112	G	N3-C4-C5	-6.30	125.45	128.60
1	AA	267	C	N3-C4-N4	6.30	122.41	118.00
1	AA	482	A	C4-C5-C6	6.30	120.15	117.00
1	AA	1113	C	O4'-C1'-N1	6.30	113.24	108.20
1	AA	1458	G	O4'-C1'-N9	6.30	113.24	108.20
1	AA	1511	G	C4-C5-N7	-6.30	108.28	110.80
2	AB	158	ASP	CB-CG-OD1	6.30	123.97	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AV	66	C	P-O3'-C3'	6.30	127.26	119.70
35	BB	245	G	C4'-C3'-C2'	-6.30	96.30	102.60
35	BB	1060	U	C5-C6-N1	6.30	125.85	122.70
35	BB	1092	C	C4'-C3'-C2'	-6.30	96.30	102.60
35	BB	1789	A	C4-C5-C6	6.30	120.15	117.00
35	BB	1934	C	N3-C4-C5	-6.30	119.38	121.90
35	BB	2597	G	N9-C4-C5	-6.30	102.88	105.40
35	BB	2613	U	C2-N1-C1'	-6.30	110.14	117.70
1	AA	1148	U	C3'-C2'-C1'	6.30	106.54	101.50
35	BB	2624	G	C5-C6-O6	-6.30	124.82	128.60
1	AA	1007	U	O4'-C1'-N1	6.30	113.24	108.20
1	AA	1324	A	C5-C6-N6	-6.30	118.66	123.70
1	AA	1412	C	O4'-C1'-N1	6.30	113.24	108.20
35	BB	87	U	O4'-C1'-N1	6.30	113.24	108.20
35	BB	388	G	N1-C6-O6	6.30	123.68	119.90
35	BB	597	G	C3'-C2'-C1'	6.30	106.54	101.50
35	BB	1228	G	N1-C6-O6	6.30	123.68	119.90
35	BB	1589	U	C5-C6-N1	6.30	125.85	122.70
35	BB	2521	C	N3-C4-N4	6.30	122.41	118.00
52	BS	25	ARG	CD-NE-CZ	-6.30	114.78	123.60
35	BB	223	A	P-O3'-C3'	6.29	127.25	119.70
35	BB	427	U	N3-C4-O4	6.29	123.81	119.40
35	BB	1860	G	C6-C5-N7	-6.29	126.62	130.40
35	BB	2491	U	C3'-C2'-C1'	6.29	106.54	101.50
1	AA	216	U	O4'-C1'-N1	6.29	113.23	108.20
1	AA	349	A	N1-C2-N3	6.29	132.45	129.30
1	AA	723	U	C3'-C2'-C1'	6.29	106.53	101.50
1	AA	837	U	C3'-C2'-C1'	6.29	106.53	101.50
1	AA	837	U	C4'-C3'-C2'	-6.29	96.31	102.60
1	AA	914	A	P-O3'-C3'	-6.29	112.15	119.70
1	AA	1323	G	N1-C6-O6	6.29	123.68	119.90
22	AV	2	G	N1-C2-N3	-6.29	120.12	123.90
35	BB	581	C	C5-C4-N4	-6.29	115.80	120.20
35	BB	676	A	C6-C5-N7	-6.29	127.89	132.30
35	BB	1448	G	C4-C5-N7	-6.29	108.28	110.80
35	BB	2063	C	C3'-C2'-C1'	-6.29	96.47	101.50
35	BB	2357	G	C5'-C4'-O4'	6.29	116.65	109.10
35	BB	2749	A	C1'-O4'-C4'	6.29	114.94	109.90
1	AA	240	G	O4'-C1'-N9	6.29	113.23	108.20
1	AA	368	U	OP1-P-O3'	6.29	119.04	105.20
1	AA	547	A	C5-C6-N1	-6.29	114.55	117.70
1	AA	1082	A	N9-C4-C5	6.29	108.32	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	83	G	C4'-C3'-C2'	-6.29	96.31	102.60
35	BB	152	A	P-O3'-C3'	-6.29	112.15	119.70
35	BB	1083	U	C6-N1-C2	6.29	124.78	121.00
35	BB	1809	A	C8-N9-C4	-6.29	103.28	105.80
35	BB	2478	A	C6-N1-C2	6.29	122.38	118.60
35	BB	2485	G	C5-C6-N1	-6.29	108.35	111.50
35	BB	2537	U	O4'-C4'-C3'	-6.29	97.71	104.00
35	BB	2764	A	C5-N7-C8	6.29	107.05	103.90
38	BE	91	ASP	CB-CG-OD1	6.29	123.96	118.30
39	BF	31	GLU	N-CA-CB	6.29	121.93	110.60
35	BB	45	G	O4'-C1'-N9	6.29	113.23	108.20
35	BB	1536	C	C6-N1-C1'	6.29	128.35	120.80
1	AA	445	G	C2-N3-C4	-6.29	108.76	111.90
1	AA	465	A	P-O3'-C3'	6.29	127.25	119.70
1	AA	1257	A	P-O3'-C3'	6.29	127.25	119.70
3	AC	153	SER	N-CA-CB	-6.29	101.07	110.50
22	AV	39	G	C2'-C3'-O3'	6.29	123.76	113.70
35	BB	223	A	N1-C6-N6	6.29	122.37	118.60
35	BB	1178	C	C6-N1-C2	-6.29	117.78	120.30
35	BB	1518	C	C2-N3-C4	6.29	123.04	119.90
35	BB	1783	A	C5-C6-N1	-6.29	114.56	117.70
35	BB	1794	A	N1-C6-N6	6.29	122.37	118.60
35	BB	1921	G	N1-C2-N3	-6.29	120.13	123.90
35	BB	2885	G	C1'-O4'-C4'	-6.29	104.87	109.90
35	BB	2854	G	C2-N3-C4	6.29	115.04	111.90
1	AA	7	A	P-O5'-C5'	-6.29	110.84	120.90
1	AA	71	A	C4-N9-C1'	-6.29	114.98	126.30
1	AA	354	G	C4-C5-C6	6.29	122.57	118.80
1	AA	354	G	C5'-C4'-O4'	6.29	116.64	109.10
1	AA	966	G	C5-N7-C8	6.29	107.44	104.30
34	BA	46	A	O4'-C1'-N9	6.29	113.23	108.20
35	BB	762	U	C5-C6-N1	6.29	125.84	122.70
35	BB	1363	C	N3-C4-C5	-6.29	119.39	121.90
35	BB	1671	U	C5-C6-N1	6.29	125.84	122.70
35	BB	1737	G	C5-N7-C8	-6.29	101.16	104.30
35	BB	2628	C	P-O3'-C3'	6.29	127.24	119.70
35	BB	2659	G	N9-C4-C5	6.29	107.91	105.40
35	BB	2802	G	N7-C8-N9	6.29	116.24	113.10
1	AA	666	G	O4'-C1'-N9	6.28	113.23	108.20
1	AA	1053	G	C8-N9-C4	-6.28	103.89	106.40
1	AA	1263	C	O4'-C1'-N1	6.28	113.23	108.20
1	AA	1297	G	C2-N3-C4	-6.28	108.76	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1451	U	N3-C4-C5	-6.28	110.83	114.60
35	BB	838	C	O4'-C4'-C3'	-6.28	97.72	104.00
35	BB	887	U	OP2-P-O3'	6.28	119.02	105.20
35	BB	1371	G	P-O3'-C3'	6.28	127.24	119.70
35	BB	1532	A	C6-C5-N7	-6.28	127.90	132.30
35	BB	1589	U	O4'-C4'-C3'	-6.28	97.72	104.00
35	BB	2023	C	O4'-C1'-N1	6.28	113.23	108.20
35	BB	2738	A	C8-N9-C4	6.28	108.31	105.80
35	BB	2899	A	C4'-C3'-C2'	-6.28	96.32	102.60
22	AV	49	G	C5-C6-O6	-6.28	124.83	128.60
35	BB	975	A	C2-N3-C4	-6.28	107.46	110.60
35	BB	997	G	N9-C4-C5	-6.28	102.89	105.40
35	BB	1260	A	N7-C8-N9	6.28	116.94	113.80
35	BB	1421	G	N9-C4-C5	-6.28	102.89	105.40
35	BB	2090	A	C5-C6-N6	-6.28	118.67	123.70
1	AA	327	A	C8-N9-C4	-6.28	103.29	105.80
1	AA	1305	G	C6-N1-C2	6.28	128.87	125.10
35	BB	49	A	C5-C6-N6	-6.28	118.67	123.70
35	BB	98	G	C6-C5-N7	-6.28	126.63	130.40
35	BB	396	G	C5-C6-O6	-6.28	124.83	128.60
35	BB	1067	A	N3-C4-C5	-6.28	122.40	126.80
35	BB	1806	C	C2-N3-C4	6.28	123.04	119.90
56	BY	25	PHE	CB-CG-CD2	-6.28	116.40	120.80
1	AA	785	G	N1-C6-O6	6.28	123.67	119.90
19	AS	11	ASP	N-CA-CB	6.28	121.90	110.60
35	BB	466	A	C5-N7-C8	6.28	107.04	103.90
35	BB	1422	G	C5-C6-N1	-6.28	108.36	111.50
35	BB	1697	G	C6-N1-C2	6.28	128.87	125.10
35	BB	2758	A	O4'-C1'-N9	6.28	113.22	108.20
1	AA	160	A	C4-C5-N7	-6.28	107.56	110.70
1	AA	241	G	C2-N3-C4	-6.28	108.76	111.90
1	AA	255	G	C4-C5-N7	-6.28	108.29	110.80
1	AA	328	C	O4'-C1'-C2'	-6.28	99.52	105.80
5	AE	74	ALA	N-CA-CB	6.28	118.89	110.10
35	BB	295	G	C5-N7-C8	-6.28	101.16	104.30
35	BB	470	A	C6-N1-C2	-6.28	114.83	118.60
35	BB	682	G	P-O3'-C3'	-6.28	112.17	119.70
35	BB	940	G	N7-C8-N9	6.28	116.24	113.10
35	BB	1114	C	C4-C5-C6	6.28	120.54	117.40
35	BB	1214	A	N9-C4-C5	-6.28	103.29	105.80
35	BB	1247	A	O4'-C1'-N9	6.28	113.22	108.20
35	BB	2413	G	N3-C4-N9	6.28	129.77	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	552	U	N3-C4-C5	-6.28	110.83	114.60
1	AA	702	A	O4'-C1'-N9	6.28	113.22	108.20
1	AA	1158	C	N3-C4-N4	6.28	122.39	118.00
1	AA	1171	A	C5-C6-N1	-6.28	114.56	117.70
1	AA	1341	U	N3-C2-O2	6.28	126.59	122.20
1	AA	1385	G	C5-C6-O6	-6.28	124.83	128.60
1	AA	1434	A	C6-C5-N7	-6.28	127.91	132.30
35	BB	908	C	N3-C4-C5	-6.28	119.39	121.90
35	BB	1206	G	C6-N1-C2	6.28	128.87	125.10
35	BB	1362	C	N3-C2-O2	6.28	126.29	121.90
35	BB	1644	C	C5-C6-N1	6.28	124.14	121.00
35	BB	2027	G	N1-C2-N3	-6.28	120.14	123.90
35	BB	2415	G	O4'-C1'-N9	6.28	113.22	108.20
50	BQ	75	TYR	CZ-CE2-CD2	-6.28	114.15	119.80
1	AA	171	A	C4-C5-C6	6.27	120.14	117.00
1	AA	389	A	N7-C8-N9	6.27	116.94	113.80
1	AA	623	C	C4-C5-C6	6.27	120.54	117.40
1	AA	1394	A	N1-C2-N3	6.27	132.44	129.30
16	AP	23	ASP	CB-CG-OD1	-6.27	112.65	118.30
34	BA	7	G	C5-C6-O6	-6.27	124.83	128.60
35	BB	1969	A	O3'-P-O5'	-6.27	92.08	104.00
35	BB	2163	A	C2-N3-C4	6.27	113.74	110.60
35	BB	2556	C	C5-C4-N4	-6.27	115.81	120.20
1	AA	1386	G	C2-N3-C4	6.27	115.04	111.90
1	AA	1410	A	C8-N9-C4	-6.27	103.29	105.80
1	AA	1519	A	C5-N7-C8	-6.27	100.76	103.90
11	AK	104	PHE	CB-CG-CD2	6.27	125.19	120.80
35	BB	901	C	OP1-P-OP2	-6.27	110.19	119.60
35	BB	955	U	C5-C6-N1	6.27	125.84	122.70
35	BB	1144	A	C6-C5-N7	-6.27	127.91	132.30
35	BB	1267	U	N3-C4-C5	-6.27	110.84	114.60
35	BB	1281	G	N9-C4-C5	6.27	107.91	105.40
35	BB	2439	A	N7-C8-N9	6.27	116.94	113.80
35	BB	2674	G	C5-C6-O6	-6.27	124.84	128.60
35	BB	2765	A	C2-N3-C4	-6.27	107.46	110.60
35	BB	2799	A	C5-C6-N6	-6.27	118.68	123.70
1	AA	1145	A	C8-N9-C4	-6.27	103.29	105.80
1	AA	1191	A	C1'-O4'-C4'	6.27	114.92	109.90
35	BB	141	G	C6-C5-N7	-6.27	126.64	130.40
1	AA	357	G	C5'-C4'-C3'	-6.27	105.97	116.00
1	AA	484	G	C8-N9-C1'	-6.27	118.85	127.00
1	AA	1083	U	C4'-C3'-C2'	6.27	108.87	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1410	A	C1'-O4'-C4'	-6.27	104.89	109.90
8	AH	114	ALA	N-CA-CB	6.27	118.88	110.10
35	BB	309	A	C6-N1-C2	-6.27	114.84	118.60
35	BB	519	U	C5-C4-O4	-6.27	122.14	125.90
35	BB	632	A	N1-C6-N6	6.27	122.36	118.60
35	BB	1148	U	N3-C4-C5	-6.27	110.84	114.60
35	BB	1277	G	C6-C5-N7	-6.27	126.64	130.40
35	BB	1924	C	C4-C5-C6	-6.27	114.27	117.40
35	BB	1927	A	C4-C5-C6	6.27	120.14	117.00
35	BB	2388	A	N1-C2-N3	6.27	132.44	129.30
35	BB	2727	A	N9-C4-C5	6.27	108.31	105.80
1	AA	443	C	N3-C4-C5	-6.27	119.39	121.90
1	AA	645	G	N7-C8-N9	-6.27	109.97	113.10
1	AA	1505	G	O4'-C1'-C2'	6.27	113.24	107.60
4	AD	3	TYR	CD1-CE1-CZ	-6.27	114.16	119.80
22	AV	26	A	C4-C5-C6	6.27	120.13	117.00
35	BB	427	U	C5-C4-O4	-6.27	122.14	125.90
35	BB	508	A	N3-C4-C5	-6.27	122.41	126.80
35	BB	535	G	N3-C2-N2	6.27	124.29	119.90
35	BB	553	G	C2-N3-C4	-6.27	108.77	111.90
35	BB	1241	A	C5-N7-C8	6.27	107.03	103.90
35	BB	1695	G	C4-C5-C6	6.27	122.56	118.80
35	BB	2043	C	N1-C2-N3	6.27	123.59	119.20
35	BB	2316	G	C5-C6-O6	-6.27	124.84	128.60
35	BB	2861	U	N1-C2-N3	6.27	118.66	114.90
35	BB	108	G	N1-C2-N3	-6.27	120.14	123.90
35	BB	269	C	C2-N3-C4	6.27	123.03	119.90
35	BB	460	A	N7-C8-N9	-6.27	110.67	113.80
35	BB	628	G	N9-C1'-C2'	-6.27	105.11	112.00
35	BB	1558	C	C1'-O4'-C4'	6.27	114.91	109.90
35	BB	1703	G	N9-C4-C5	6.27	107.91	105.40
1	AA	341	C	P-O3'-C3'	-6.26	112.18	119.70
1	AA	474	G	C8-N9-C4	6.26	108.91	106.40
1	AA	619	U	N3-C2-O2	6.26	126.59	122.20
1	AA	1366	C	N3-C4-N4	6.26	122.39	118.00
1	AA	1515	G	C8-N9-C1'	6.26	135.14	127.00
34	BA	38	C	N3-C4-N4	6.26	122.39	118.00
35	BB	1067	A	C5-C6-N6	-6.26	118.69	123.70
35	BB	1184	U	N1-C2-O2	6.26	127.19	122.80
35	BB	2193	G	C4-C5-N7	-6.26	108.29	110.80
41	BH	31	VAL	N-CA-C	-6.26	94.08	111.00
1	AA	606	G	N9-C4-C5	-6.26	102.89	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	507	A	N1-C2-N3	-6.26	126.17	129.30
1	AA	413	G	N1-C6-O6	6.26	123.66	119.90
1	AA	851	G	C6-C5-N7	-6.26	126.64	130.40
1	AA	1038	C	N3-C4-N4	6.26	122.38	118.00
1	AA	1155	A	O4'-C1'-N9	6.26	113.21	108.20
1	AA	1346	A	C2-N3-C4	-6.26	107.47	110.60
4	AD	19	PHE	CB-CG-CD2	6.26	125.18	120.80
22	AV	70	C	P-O5'-C5'	6.26	130.92	120.90
35	BB	356	G	C8-N9-C4	-6.26	103.89	106.40
35	BB	648	G	N3-C2-N2	6.26	124.28	119.90
35	BB	778	G	C5-N7-C8	-6.26	101.17	104.30
35	BB	843	G	C8-N9-C4	6.26	108.90	106.40
35	BB	1140	C	O4'-C4'-C3'	-6.26	97.74	104.00
35	BB	1799	G	O4'-C1'-N9	6.26	113.21	108.20
35	BB	2439	A	C4-C5-C6	6.26	120.13	117.00
1	AA	72	A	C8-N9-C4	-6.26	103.30	105.80
1	AA	162	A	N7-C8-N9	-6.26	110.67	113.80
1	AA	780	A	C5-N7-C8	6.26	107.03	103.90
14	AN	67	GLY	C-N-CA	6.26	137.35	121.70
19	AS	12	LEU	CB-CG-CD2	6.26	121.64	111.00
35	BB	12	U	C5-C4-O4	-6.26	122.14	125.90
35	BB	195	A	C4'-C3'-C2'	-6.26	96.34	102.60
35	BB	455	C	C3'-C2'-C1'	6.26	106.51	101.50
35	BB	532	A	C4-C5-C6	6.26	120.13	117.00
35	BB	756	A	C1'-O4'-C4'	6.26	114.91	109.90
35	BB	1711	A	C5-C6-N6	-6.26	118.69	123.70
35	BB	2592	G	C1'-O4'-C4'	6.26	114.91	109.90
52	BS	110	ARG	NE-CZ-NH1	6.26	123.43	120.30
1	AA	802	A	C8-N9-C4	-6.26	103.30	105.80
35	BB	248	G	N3-C2-N2	6.26	124.28	119.90
35	BB	790	U	N3-C4-O4	6.26	123.78	119.40
35	BB	846	U	C4'-C3'-C2'	-6.26	96.34	102.60
35	BB	1952	A	N9-C4-C5	-6.26	103.30	105.80
1	AA	175	C	C5-C6-N1	6.26	124.13	121.00
1	AA	251	G	O4'-C1'-N9	6.26	113.20	108.20
34	BA	42	C	C4-C5-C6	6.26	120.53	117.40
35	BB	267	C	N3-C4-N4	6.26	122.38	118.00
35	BB	656	G	C3'-C2'-C1'	6.26	106.50	101.50
35	BB	914	G	C3'-C2'-C1'	-6.26	96.49	101.50
35	BB	1868	C	C6-N1-C2	6.26	122.80	120.30
35	BB	1944	U	C4'-C3'-C2'	6.26	108.86	102.60
35	BB	2076	U	C2-N1-C1'	6.26	125.21	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2670	A	C5-C6-N6	-6.26	118.69	123.70
1	AA	1001	C	C6-N1-C2	-6.25	117.80	120.30
1	AA	1267	C	N3-C4-N4	6.25	122.38	118.00
1	AA	1377	A	C4-C5-C6	6.25	120.13	117.00
35	BB	91	A	N7-C8-N9	-6.25	110.67	113.80
35	BB	1424	G	C8-N9-C4	-6.25	103.90	106.40
35	BB	1495	A	O4'-C1'-N9	6.25	113.20	108.20
35	BB	2290	G	O4'-C1'-N9	6.25	113.20	108.20
38	BE	49	ARG	NE-CZ-NH1	-6.25	117.17	120.30
1	AA	1142	G	C8-N9-C4	-6.25	103.90	106.40
1	AA	1143	G	N1-C6-O6	6.25	123.65	119.90
35	BB	81	G	N7-C8-N9	6.25	116.23	113.10
35	BB	139	U	N3-C2-O2	6.25	126.58	122.20
35	BB	328	U	C2-N3-C4	6.25	130.75	127.00
35	BB	510	C	C6-N1-C1'	-6.25	113.30	120.80
35	BB	660	C	N3-C4-N4	6.25	122.38	118.00
35	BB	1312	U	O4'-C1'-N1	6.25	113.20	108.20
35	BB	1744	A	C5-N7-C8	6.25	107.03	103.90
35	BB	2020	A	P-O5'-C5'	6.25	130.90	120.90
35	BB	2819	G	N1-C6-O6	6.25	123.65	119.90
1	AA	195	A	C5-C6-N6	-6.25	118.70	123.70
1	AA	879	C	N3-C4-C5	-6.25	119.40	121.90
1	AA	1377	A	N3-C4-C5	-6.25	122.42	126.80
4	AD	36	ALA	N-CA-CB	6.25	118.85	110.10
35	BB	1	G	O4'-C1'-N9	6.25	113.20	108.20
35	BB	85	G	C5-C6-N1	-6.25	108.37	111.50
35	BB	868	U	N3-C4-C5	-6.25	110.85	114.60
35	BB	952	G	OP1-P-OP2	-6.25	110.22	119.60
35	BB	1276	A	C6-C5-N7	-6.25	127.92	132.30
35	BB	1826	G	O4'-C1'-N9	6.25	113.20	108.20
35	BB	1993	U	O5'-P-OP2	6.25	118.20	110.70
35	BB	2656	U	C1'-O4'-C4'	6.25	114.90	109.90
1	AA	352	C	N1-C2-N3	-6.25	114.83	119.20
1	AA	443	C	P-O3'-C3'	-6.25	112.20	119.70
1	AA	456	A	C5-C6-N6	-6.25	118.70	123.70
1	AA	657	U	N3-C4-C5	-6.25	110.85	114.60
35	BB	781	A	C6-N1-C2	6.25	122.35	118.60
35	BB	893	C	C5'-C4'-O4'	6.25	116.60	109.10
35	BB	1537	G	N9-C1'-C2'	-6.25	105.12	112.00
35	BB	2776	A	C6-N1-C2	6.25	122.35	118.60
1	AA	136	C	C3'-C2'-C1'	6.25	106.50	101.50
1	AA	183	C	N3-C2-O2	6.25	126.27	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	626	G	N3-C2-N2	6.25	124.27	119.90
1	AA	1129	C	C5-C6-N1	6.25	124.12	121.00
1	AA	1308	U	O4'-C1'-N1	6.25	113.20	108.20
1	AA	1461	G	N9-C4-C5	-6.25	102.90	105.40
11	AK	126	ARG	NE-CZ-NH2	-6.25	117.17	120.30
34	BA	99	A	C4-C5-N7	-6.25	107.58	110.70
35	BB	554	U	C1'-O4'-C4'	6.25	114.90	109.90
35	BB	649	G	C1'-O4'-C4'	-6.25	104.90	109.90
35	BB	784	G	C4-C5-C6	6.25	122.55	118.80
35	BB	1460	U	C6-N1-C2	6.25	124.75	121.00
35	BB	1901	A	O4'-C1'-N9	6.25	113.20	108.20
35	BB	2134	A	O4'-C4'-C3'	-6.25	97.75	104.00
35	BB	2207	C	C2-N1-C1'	6.25	125.67	118.80
35	BB	2207	C	C5-C4-N4	6.25	124.57	120.20
1	AA	41	G	C5-C6-O6	-6.25	124.85	128.60
1	AA	50	A	C5-C6-N6	-6.25	118.70	123.70
1	AA	158	G	C5-C6-O6	6.25	132.35	128.60
1	AA	297	G	C4-N9-C1'	-6.25	118.38	126.50
1	AA	322	C	N3-C4-C5	-6.25	119.40	121.90
1	AA	357	G	C2-N3-C4	6.25	115.02	111.90
1	AA	664	G	O4'-C1'-N9	6.25	113.20	108.20
1	AA	862	C	C4-C5-C6	6.25	120.52	117.40
1	AA	902	G	C2-N3-C4	6.25	115.02	111.90
1	AA	920	U	N1-C2-O2	-6.25	118.43	122.80
35	BB	59	U	C2-N3-C4	6.25	130.75	127.00
35	BB	377	G	C4-C5-C6	6.25	122.55	118.80
35	BB	605	G	C6-N1-C2	6.25	128.85	125.10
35	BB	1363	C	C5'-C4'-C3'	-6.25	106.01	116.00
35	BB	2800	A	C5-C6-N1	-6.25	114.58	117.70
1	AA	76	G	C6-C5-N7	-6.25	126.65	130.40
1	AA	285	C	C2-N1-C1'	6.25	125.67	118.80
1	AA	763	G	C4'-C3'-C2'	-6.25	96.36	102.60
1	AA	949	A	N9-C4-C5	6.25	108.30	105.80
35	BB	724	U	N3-C2-O2	6.25	126.57	122.20
35	BB	1465	G	P-O5'-C5'	6.25	130.89	120.90
35	BB	1866	A	C8-N9-C4	-6.25	103.30	105.80
35	BB	1963	U	C1'-O4'-C4'	6.25	114.90	109.90
35	BB	2484	G	P-O3'-C3'	-6.25	112.21	119.70
1	AA	1117	A	C2-N3-C4	-6.24	107.48	110.60
34	BA	30	C	C2-N1-C1'	6.24	125.67	118.80
35	BB	1016	G	C5-C6-O6	-6.24	124.85	128.60
35	BB	1089	A	N9-C1'-C2'	-6.24	105.13	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1404	C	N3-C4-C5	-6.24	119.40	121.90
35	BB	1552	A	C5'-C4'-O4'	-6.24	101.61	109.10
35	BB	1661	G	C5-N7-C8	6.24	107.42	104.30
35	BB	2674	G	C5-C6-N1	-6.24	108.38	111.50
1	AA	21	G	N9-C4-C5	6.24	107.90	105.40
1	AA	207	C	C6-N1-C2	-6.24	117.80	120.30
1	AA	693	G	N1-C2-N2	-6.24	110.58	116.20
1	AA	881	G	N3-C4-N9	-6.24	122.25	126.00
1	AA	985	C	C4-C5-C6	6.24	120.52	117.40
1	AA	1444	U	N1-C2-N3	-6.24	111.16	114.90
35	BB	551	G	C2-N3-C4	6.24	115.02	111.90
35	BB	801	G	C5-C6-O6	-6.24	124.86	128.60
35	BB	1674	G	C8-N9-C4	-6.24	103.90	106.40
35	BB	1722	A	C8-N9-C4	-6.24	103.30	105.80
35	BB	1822	C	C2-N3-C4	6.24	123.02	119.90
1	AA	1126	U	C4-C5-C6	6.24	123.44	119.70
4	AD	118	SER	N-CA-CB	6.24	119.86	110.50
35	BB	367	G	C4-C5-C6	6.24	122.55	118.80
35	BB	554	U	C3'-C2'-C1'	6.24	106.49	101.50
35	BB	684	G	N1-C6-O6	6.24	123.64	119.90
35	BB	1419	A	N7-C8-N9	6.24	116.92	113.80
35	BB	2277	G	C6-C5-N7	-6.24	126.66	130.40
35	BB	2365	G	N3-C2-N2	6.24	124.27	119.90
35	BB	2867	G	N1-C6-O6	6.24	123.64	119.90
1	AA	263	A	C5-N7-C8	-6.24	100.78	103.90
1	AA	663	A	N1-C2-N3	6.24	132.42	129.30
35	BB	240	C	N3-C4-C5	-6.24	119.40	121.90
35	BB	244	A	N1-C6-N6	6.24	122.34	118.60
35	BB	1368	G	C3'-C2'-C1'	6.24	106.49	101.50
35	BB	2087	G	N1-C2-N3	-6.24	120.16	123.90
35	BB	2317	A	C6-C5-N7	-6.24	127.93	132.30
35	BB	2600	A	C2-N3-C4	-6.24	107.48	110.60
35	BB	2802	G	C6-C5-N7	-6.24	126.66	130.40
44	BK	30	ARG	NE-CZ-NH1	6.24	123.42	120.30
1	AA	323	U	O4'-C1'-N1	6.24	113.19	108.20
1	AA	474	G	N1-C2-N3	-6.24	120.16	123.90
1	AA	992	U	C5'-C4'-O4'	6.24	116.58	109.10
1	AA	1086	U	C6-N1-C2	-6.24	117.26	121.00
1	AA	1365	G	C2-N3-C4	6.24	115.02	111.90
35	BB	96	C	C6-N1-C2	6.24	122.80	120.30
35	BB	155	A	N3-C4-C5	-6.24	122.43	126.80
35	BB	1078	U	P-O3'-C3'	-6.24	112.22	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	2085	U	C1'-O4'-C4'	6.24	114.89	109.90
35	BB	2824	C	C6-N1-C2	-6.24	117.81	120.30
1	AA	100	G	C6-C5-N7	-6.24	126.66	130.40
1	AA	238	A	C4-C5-C6	-6.24	113.88	117.00
1	AA	867	G	C6-C5-N7	-6.24	126.66	130.40
1	AA	1290	G	C4-C5-C6	6.24	122.54	118.80
34	BA	42	C	O4'-C1'-N1	6.24	113.19	108.20
35	BB	830	G	O4'-C1'-N9	6.24	113.19	108.20
35	BB	1666	G	O4'-C1'-N9	6.24	113.19	108.20
35	BB	1836	C	C2-N3-C4	6.24	123.02	119.90
35	BB	2008	C	N3-C4-C5	-6.24	119.41	121.90
35	BB	2861	U	P-O5'-C5'	6.24	130.88	120.90
1	AA	475	C	C4-C5-C6	6.23	120.52	117.40
1	AA	1408	A	C2-N3-C4	-6.23	107.48	110.60
35	BB	680	C	N1-C2-O2	-6.23	115.16	118.90
35	BB	981	A	N3-C4-N9	6.23	132.39	127.40
35	BB	1008	A	N1-C2-N3	6.23	132.42	129.30
35	BB	1025	G	C4-C5-C6	6.23	122.54	118.80
35	BB	2532	G	C8-N9-C4	-6.23	103.91	106.40
35	BB	2573	C	O4'-C1'-N1	6.23	113.19	108.20
51	BR	1	MET	CG-SD-CE	6.23	110.17	100.20
1	AA	573	A	N1-C6-N6	6.23	122.34	118.60
1	AA	639	G	C2-N3-C4	6.23	115.02	111.90
1	AA	1020	G	C8-N9-C4	-6.23	103.91	106.40
1	AA	1046	A	O4'-C1'-N9	6.23	113.19	108.20
35	BB	15	G	C5-N7-C8	-6.23	101.18	104.30
35	BB	624	C	O4'-C1'-N1	6.23	113.19	108.20
35	BB	802	A	C5-C6-N6	-6.23	118.71	123.70
35	BB	1067	A	C3'-C2'-C1'	-6.23	96.51	101.50
35	BB	1099	G	C6-C5-N7	-6.23	126.66	130.40
35	BB	1144	A	N3-C4-C5	-6.23	122.44	126.80
35	BB	1371	G	C5-C6-N1	-6.23	108.38	111.50
35	BB	2115	G	N1-C2-N2	-6.23	110.59	116.20
35	BB	2149	U	N3-C4-C5	6.23	118.34	114.60
35	BB	2407	A	N3-C4-C5	-6.23	122.44	126.80
47	BN	108	ALA	N-CA-CB	6.23	118.83	110.10
1	AA	182	A	C4-C5-C6	6.23	120.11	117.00
1	AA	626	G	O4'-C1'-N9	6.23	113.18	108.20
1	AA	838	G	N1-C2-N3	-6.23	120.16	123.90
1	AA	919	A	C4'-C3'-C2'	-6.23	96.37	102.60
1	AA	1028	C	C4'-C3'-C2'	-6.23	96.37	102.60
1	AA	1131	G	C5-C6-O6	-6.23	124.86	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AV	66	C	O4'-C1'-N1	6.23	113.18	108.20
34	BA	20	G	C5'-C4'-O4'	6.23	116.58	109.10
35	BB	478	A	C4-C5-N7	6.23	113.81	110.70
35	BB	529	A	N9-C4-C5	6.23	108.29	105.80
35	BB	1052	C	O4'-C1'-N1	6.23	113.18	108.20
35	BB	1120	G	C8-N9-C4	-6.23	103.91	106.40
35	BB	1775	U	N1-C2-N3	-6.23	111.16	114.90
35	BB	2902	C	C6-N1-C2	6.23	122.79	120.30
1	AA	841	C	O4'-C1'-N1	6.23	113.18	108.20
1	AA	932	C	C4-C5-C6	-6.23	114.29	117.40
35	BB	59	U	N3-C2-O2	6.23	126.56	122.20
35	BB	440	C	N3-C4-N4	6.23	122.36	118.00
35	BB	1628	G	C6-C5-N7	-6.23	126.66	130.40
1	AA	567	G	N1-C2-N3	-6.23	120.16	123.90
35	BB	251	A	C5-C6-N6	-6.23	118.72	123.70
35	BB	433	C	O4'-C1'-N1	6.23	113.18	108.20
35	BB	1566	A	C2-N3-C4	-6.23	107.49	110.60
35	BB	1677	A	C6-N1-C2	6.23	122.34	118.60
35	BB	1692	U	C4-C5-C6	6.23	123.44	119.70
35	BB	1829	A	C4-C5-N7	6.23	113.81	110.70
35	BB	2142	A	O4'-C4'-C3'	-6.23	97.77	104.00
35	BB	2552	U	C6-N1-C2	6.23	124.74	121.00
35	BB	2629	U	O4'-C1'-N1	6.23	113.18	108.20
35	BB	2754	U	C2-N3-C4	-6.23	123.26	127.00
1	AA	811	C	C4'-C3'-C2'	6.23	108.83	102.60
1	AA	1152	A	C5-C6-N6	-6.23	118.72	123.70
9	AI	89	TYR	CB-CG-CD2	6.23	124.73	121.00
1	AA	70	U	N3-C4-C5	-6.22	110.86	114.60
1	AA	300	A	N7-C8-N9	-6.22	110.69	113.80
1	AA	616	G	N1-C6-O6	6.22	123.63	119.90
35	BB	177	G	C8-N9-C4	6.22	108.89	106.40
35	BB	721	A	O4'-C4'-C3'	-6.22	97.78	104.00
35	BB	991	C	N1-C2-N3	-6.22	114.84	119.20
35	BB	1281	G	P-O5'-C5'	-6.22	110.94	120.90
35	BB	2252	G	C4-C5-C6	6.22	122.53	118.80
1	AA	675	A	O4'-C4'-C3'	-6.22	97.78	104.00
1	AA	987	G	C8-N9-C4	-6.22	103.91	106.40
22	AV	38	U	C6-N1-C2	-6.22	117.27	121.00
34	BA	23	G	C5-C6-N1	-6.22	108.39	111.50
34	BA	73	A	C4-C5-C6	6.22	120.11	117.00
35	BB	1	G	C4-C5-C6	6.22	122.53	118.80
35	BB	215	G	C4-C5-C6	6.22	122.53	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	923	G	N7-C8-N9	-6.22	109.99	113.10
35	BB	1031	G	N1-C6-O6	6.22	123.63	119.90
35	BB	1073	A	C4-C5-C6	6.22	120.11	117.00
35	BB	1415	U	N1-C2-O2	6.22	127.16	122.80
35	BB	1620	G	N1-C2-N3	-6.22	120.17	123.90
45	BL	117	THR	N-CA-CB	6.22	122.12	110.30
1	AA	18	C	C1'-O4'-C4'	6.22	114.88	109.90
1	AA	868	C	C5-C4-N4	-6.22	115.84	120.20
35	BB	783	A	C4-C5-C6	6.22	120.11	117.00
1	AA	120	A	C3'-C2'-C1'	6.22	106.48	101.50
1	AA	125	U	N3-C2-O2	6.22	126.55	122.20
1	AA	919	A	C6-C5-N7	-6.22	127.95	132.30
1	AA	1089	G	C4-C5-C6	6.22	122.53	118.80
1	AA	1280	A	O4'-C1'-N9	6.22	113.17	108.20
1	AA	1444	U	N3-C4-C5	-6.22	110.87	114.60
1	AA	1516	G	C1'-O4'-C4'	-6.22	104.92	109.90
22	AV	37	G	N9-C4-C5	6.22	107.89	105.40
35	BB	1387	A	N3-C4-N9	-6.22	122.42	127.40
35	BB	1788	C	N3-C4-C5	-6.22	119.41	121.90
35	BB	2377	A	C4-C5-C6	6.22	120.11	117.00
1	AA	1172	C	O4'-C1'-N1	6.22	113.17	108.20
1	AA	1291	U	C5-C4-O4	6.22	129.63	125.90
35	BB	879	G	N1-C2-N3	-6.22	120.17	123.90
35	BB	2141	G	C4-C5-C6	6.22	122.53	118.80
1	AA	121	U	C2-N1-C1'	6.22	125.16	117.70
1	AA	213	G	O4'-C1'-N9	6.22	113.17	108.20
1	AA	239	U	N3-C4-O4	6.22	123.75	119.40
3	AC	127	VAL	C-N-CA	6.22	137.24	121.70
8	AH	8	ASP	CB-CG-OD1	6.22	123.89	118.30
35	BB	5	A	N9-C4-C5	6.22	108.29	105.80
35	BB	124	G	N7-C8-N9	-6.22	109.99	113.10
35	BB	972	A	N1-C6-N6	6.22	122.33	118.60
35	BB	1389	G	O4'-C1'-N9	6.22	113.17	108.20
35	BB	2195	U	O4'-C1'-N1	6.22	113.17	108.20
35	BB	2397	G	N9-C4-C5	-6.22	102.91	105.40
35	BB	2536	G	N1-C2-N3	-6.22	120.17	123.90
35	BB	2639	A	N1-C2-N3	6.22	132.41	129.30
35	BB	2659	G	P-O3'-C3'	-6.22	112.24	119.70
35	BB	2776	A	O4'-C1'-N9	6.22	113.17	108.20
35	BB	2877	G	N7-C8-N9	-6.22	109.99	113.10
35	BB	2900	A	C5-C6-N1	-6.22	114.59	117.70
1	AA	42	G	C4-C5-N7	-6.21	108.31	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1015	G	C4-C5-C6	6.21	122.53	118.80
1	AA	1023	U	C6-N1-C2	-6.21	117.27	121.00
1	AA	1258	G	C6-C5-N7	-6.21	126.67	130.40
1	AA	1350	A	C4-C5-N7	6.21	113.81	110.70
1	AA	1398	A	C4'-C3'-C2'	-6.21	96.39	102.60
34	BA	24	G	N1-C2-N3	-6.21	120.17	123.90
34	BA	110	C	C5-C4-N4	-6.21	115.85	120.20
35	BB	10	A	N9-C4-C5	6.21	108.29	105.80
35	BB	313	G	N9-C4-C5	6.21	107.89	105.40
35	BB	405	U	C3'-C2'-C1'	-6.21	96.53	101.50
35	BB	1606	C	O4'-C1'-C2'	6.21	113.19	107.60
35	BB	2148	G	C5-N7-C8	6.21	107.41	104.30
1	AA	179	A	C4'-C3'-C2'	-6.21	96.39	102.60
1	AA	635	A	C4'-C3'-C2'	-6.21	96.39	102.60
1	AA	1208	C	O4'-C1'-N1	6.21	113.17	108.20
1	AA	1214	C	N3-C4-C5	-6.21	119.42	121.90
35	BB	341	C	O4'-C1'-N1	6.21	113.17	108.20
35	BB	1537	G	C8-N9-C4	-6.21	103.92	106.40
35	BB	2895	G	C4'-C3'-C2'	-6.21	96.39	102.60
1	AA	533	A	N3-C4-C5	-6.21	122.45	126.80
1	AA	712	A	N1-C6-N6	6.21	122.33	118.60
1	AA	859	G	N3-C2-N2	6.21	124.25	119.90
1	AA	887	G	C4'-C3'-C2'	-6.21	96.39	102.60
1	AA	1110	A	C2-N3-C4	-6.21	107.50	110.60
1	AA	1163	A	C2-N3-C4	6.21	113.70	110.60
1	AA	1496	C	N3-C4-C5	-6.21	119.42	121.90
13	AM	112	ARG	NE-CZ-NH1	6.21	123.41	120.30
35	BB	97	C	C5'-C4'-O4'	-6.21	101.65	109.10
35	BB	414	C	C6-N1-C2	-6.21	117.81	120.30
35	BB	1244	A	P-O5'-C5'	-6.21	110.96	120.90
35	BB	1267	U	O4'-C4'-C3'	-6.21	97.79	104.00
35	BB	2367	G	N1-C6-O6	6.21	123.63	119.90
1	AA	1482	G	N3-C2-N2	6.21	124.25	119.90
35	BB	556	A	C8-N9-C4	-6.21	103.32	105.80
35	BB	583	G	N1-C2-N3	-6.21	120.17	123.90
35	BB	799	G	N1-C6-O6	6.21	123.63	119.90
35	BB	1954	G	N1-C2-N3	-6.21	120.17	123.90
35	BB	2050	C	C5-C6-N1	-6.21	117.89	121.00
35	BB	2067	G	N7-C8-N9	6.21	116.20	113.10
35	BB	2791	G	N3-C4-N9	-6.21	122.27	126.00
1	AA	214	C	C5-C6-N1	6.21	124.10	121.00
1	AA	387	U	O4'-C1'-N1	6.21	113.17	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	394	G	N1-C6-O6	6.21	123.62	119.90
1	AA	615	G	C8-N9-C4	-6.21	103.92	106.40
1	AA	745	G	C8-N9-C4	-6.21	103.92	106.40
1	AA	918	A	C6-C5-N7	-6.21	127.95	132.30
1	AA	992	U	C5-C6-N1	6.21	125.80	122.70
35	BB	147	C	N3-C4-N4	6.21	122.34	118.00
35	BB	309	A	C8-N9-C4	-6.21	103.32	105.80
35	BB	739	A	C6-C5-N7	-6.21	127.95	132.30
35	BB	757	G	C6-C5-N7	6.21	134.12	130.40
35	BB	1145	C	N3-C2-O2	6.21	126.25	121.90
35	BB	1414	C	C2-N3-C4	6.21	123.00	119.90
35	BB	2811	G	C8-N9-C4	-6.21	103.92	106.40
35	BB	2834	G	OP1-P-OP2	-6.21	110.29	119.60
1	AA	298	A	C5-C6-N1	-6.21	114.60	117.70
1	AA	306	A	OP1-P-OP2	-6.21	110.29	119.60
1	AA	351	G	N7-C8-N9	-6.21	110.00	113.10
1	AA	579	A	C5-N7-C8	-6.21	100.80	103.90
1	AA	1056	U	O4'-C1'-N1	6.21	113.16	108.20
34	BA	71	C	C2-N3-C4	-6.21	116.80	119.90
35	BB	692	C	C5-C4-N4	-6.21	115.86	120.20
35	BB	729	G	N7-C8-N9	-6.21	110.00	113.10
35	BB	825	A	C8-N9-C4	-6.21	103.32	105.80
35	BB	1005	C	C4'-C3'-C2'	6.21	108.81	102.60
35	BB	1742	U	O4'-C1'-N1	6.21	113.17	108.20
35	BB	2007	U	C5-C4-O4	-6.21	122.18	125.90
35	BB	2222	C	C5-C4-N4	-6.21	115.86	120.20
35	BB	2653	U	N3-C4-O4	6.21	123.74	119.40
1	AA	360	G	N3-C4-C5	-6.21	125.50	128.60
1	AA	1387	G	N1-C2-N3	-6.21	120.18	123.90
1	AA	1432	G	N1-C2-N3	-6.21	120.18	123.90
1	AA	257	G	N3-C2-N2	6.20	124.24	119.90
1	AA	734	G	C4-N9-C1'	6.20	134.56	126.50
1	AA	1296	C	N1-C2-O2	6.20	122.62	118.90
35	BB	283	G	N7-C8-N9	-6.20	110.00	113.10
35	BB	309	A	C5-N7-C8	6.20	107.00	103.90
35	BB	498	G	N1-C6-O6	6.20	123.62	119.90
35	BB	508	A	N9-C4-C5	6.20	108.28	105.80
35	BB	2413	G	N1-C2-N2	-6.20	110.62	116.20
35	BB	2477	U	O4'-C1'-N1	6.20	113.16	108.20
50	BQ	31	TYR	CB-CG-CD2	6.20	124.72	121.00
1	AA	960	U	C5-C4-O4	-6.20	122.18	125.90
1	AA	1270	G	C2-N3-C4	6.20	115.00	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	26	G	N9-C4-C5	-6.20	102.92	105.40
35	BB	708	G	C4-C5-N7	6.20	113.28	110.80
35	BB	1073	A	C5-C6-N6	-6.20	118.74	123.70
35	BB	1601	G	N1-C6-O6	6.20	123.62	119.90
35	BB	1835	G	C4-C5-N7	-6.20	108.32	110.80
35	BB	2126	A	C4-C5-N7	-6.20	107.60	110.70
1	AA	249	U	O4'-C1'-N1	6.20	113.16	108.20
1	AA	596	A	N9-C4-C5	-6.20	103.32	105.80
1	AA	664	G	C4-C5-N7	6.20	113.28	110.80
1	AA	671	G	C5'-C4'-C3'	-6.20	106.08	116.00
1	AA	1049	U	P-O3'-C3'	6.20	127.14	119.70
1	AA	1074	G	N1-C6-O6	6.20	123.62	119.90
1	AA	1154	G	C4-C5-C6	6.20	122.52	118.80
1	AA	1453	G	C5-N7-C8	6.20	107.40	104.30
20	AT	59	ARG	CD-NE-CZ	6.20	132.28	123.60
35	BB	582	A	C5-C6-N1	-6.20	114.60	117.70
35	BB	2092	U	N3-C4-O4	6.20	123.74	119.40
35	BB	2477	U	N3-C2-O2	6.20	126.54	122.20
35	BB	2718	G	N9-C4-C5	6.20	107.88	105.40
1	AA	52	C	C5-C4-N4	-6.20	115.86	120.20
1	AA	563	A	N3-C4-N9	6.20	132.36	127.40
1	AA	674	G	N1-C2-N3	-6.20	120.18	123.90
35	BB	41	C	N3-C4-C5	-6.20	119.42	121.90
35	BB	989	G	N9-C4-C5	6.20	107.88	105.40
35	BB	1950	G	N7-C8-N9	-6.20	110.00	113.10
35	BB	2790	U	C6-N1-C2	-6.20	117.28	121.00
35	BB	27	G	N3-C2-N2	6.20	124.24	119.90
35	BB	205	G	C8-N9-C4	6.20	108.88	106.40
35	BB	247	G	C8-N9-C4	6.20	108.88	106.40
35	BB	1930	G	C4-C5-N7	6.20	113.28	110.80
35	BB	2151	U	N3-C4-C5	6.20	118.32	114.60
1	AA	872	A	C4-C5-C6	6.20	120.10	117.00
12	AL	64	SER	N-CA-CB	6.20	119.79	110.50
34	BA	56	G	C5-C6-O6	-6.20	124.88	128.60
34	BA	62	C	C4'-C3'-C2'	-6.20	96.41	102.60
35	BB	1210	G	C5'-C4'-C3'	-6.20	106.09	116.00
35	BB	1402	U	O4'-C1'-N1	6.20	113.16	108.20
35	BB	1583	A	C5-C6-N6	-6.20	118.74	123.70
35	BB	1863	G	N3-C2-N2	6.20	124.24	119.90
35	BB	2019	A	N9-C4-C5	-6.20	103.32	105.80
35	BB	2122	U	N3-C4-O4	6.20	123.74	119.40
35	BB	2588	G	N9-C1'-C2'	-6.20	105.19	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	2856	A	OP1-P-OP2	-6.20	110.31	119.60
1	AA	616	G	C4-C5-C6	6.19	122.52	118.80
35	BB	646	U	O4'-C1'-N1	6.19	113.16	108.20
35	BB	1213	A	N9-C4-C5	-6.19	103.32	105.80
35	BB	1353	A	N7-C8-N9	6.19	116.90	113.80
35	BB	2763	G	C6-C5-N7	-6.19	126.68	130.40
1	AA	141	G	C2-N3-C4	6.19	115.00	111.90
1	AA	146	G	C6-C5-N7	-6.19	126.69	130.40
1	AA	180	U	P-O3'-C3'	-6.19	112.27	119.70
1	AA	416	G	C6-C5-N7	-6.19	126.68	130.40
1	AA	481	G	N3-C4-N9	6.19	129.72	126.00
1	AA	723	U	O4'-C1'-N1	6.19	113.15	108.20
1	AA	1334	G	C8-N9-C4	-6.19	103.92	106.40
22	AV	2	G	C5-C6-N1	-6.19	108.40	111.50
35	BB	705	A	C8-N9-C4	-6.19	103.32	105.80
35	BB	799	G	C2-N3-C4	-6.19	108.80	111.90
35	BB	821	A	C8-N9-C4	-6.19	103.32	105.80
35	BB	1266	G	P-O3'-C3'	6.19	127.13	119.70
35	BB	1306	C	O4'-C4'-C3'	-6.19	97.81	104.00
1	AA	91	U	N3-C4-C5	-6.19	110.89	114.60
1	AA	128	G	N7-C8-N9	-6.19	110.00	113.10
1	AA	512	U	P-O5'-C5'	6.19	130.81	120.90
1	AA	653	U	C3'-C2'-C1'	-6.19	96.55	101.50
1	AA	1436	U	P-O3'-C3'	-6.19	112.27	119.70
11	AK	84	MET	CG-SD-CE	-6.19	90.29	100.20
35	BB	530	G	N1-C6-O6	6.19	123.61	119.90
35	BB	1172	C	P-O3'-C3'	6.19	127.13	119.70
35	BB	1201	U	C5-C4-O4	-6.19	122.19	125.90
35	BB	1337	G	C5'-C4'-C3'	-6.19	106.09	116.00
35	BB	1529	G	N1-C2-N3	-6.19	120.19	123.90
35	BB	2215	C	N3-C4-N4	6.19	122.33	118.00
35	BB	2445	G	N3-C4-C5	6.19	131.69	128.60
1	AA	144	G	C6-N1-C2	6.19	128.81	125.10
1	AA	812	G	C4-C5-C6	6.19	122.51	118.80
35	BB	415	A	N1-C2-N3	6.19	132.40	129.30
35	BB	1757	A	P-O5'-C5'	-6.19	111.00	120.90
35	BB	1817	G	N3-C2-N2	6.19	124.23	119.90
35	BB	2639	A	C4-C5-N7	-6.19	107.61	110.70
1	AA	329	A	C5-C6-N1	-6.19	114.61	117.70
1	AA	552	U	C1'-O4'-C4'	-6.19	104.95	109.90
1	AA	816	A	C5-N7-C8	6.19	106.99	103.90
1	AA	935	A	O4'-C1'-N9	6.19	113.15	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	B5	74	ARG	NE-CZ-NH2	-6.19	117.21	120.30
35	BB	946	C	C4'-C3'-C2'	-6.19	96.41	102.60
35	BB	1232	G	P-O3'-C3'	-6.19	112.28	119.70
35	BB	2010	G	C4-C5-C6	6.19	122.51	118.80
35	BB	2640	G	C5-C6-N1	6.19	114.59	111.50
1	AA	305	G	N1-C2-N3	-6.19	120.19	123.90
35	BB	1854	A	C2-N3-C4	6.19	113.69	110.60
1	AA	492	C	C1'-O4'-C4'	6.18	114.85	109.90
1	AA	1378	C	C6-N1-C2	-6.18	117.83	120.30
35	BB	361	G	C8-N9-C4	-6.18	103.93	106.40
35	BB	1095	A	C4-C5-N7	-6.18	107.61	110.70
35	BB	1706	C	C6-N1-C2	-6.18	117.83	120.30
35	BB	1891	G	C3'-C2'-C1'	-6.18	96.55	101.50
35	BB	2616	C	N3-C4-N4	6.18	122.33	118.00
35	BB	2688	G	C5-N7-C8	6.18	107.39	104.30
37	BD	2	ILE	CA-CB-CG1	6.18	122.75	111.00
1	AA	355	C	C5-C4-N4	-6.18	115.87	120.20
1	AA	712	A	N1-C2-N3	-6.18	126.21	129.30
1	AA	725	G	C4-C5-C6	6.18	122.51	118.80
35	BB	353	C	N3-C4-C5	-6.18	119.43	121.90
35	BB	1442	U	C4-C5-C6	-6.18	115.99	119.70
35	BB	1558	C	C6-N1-C1'	-6.18	113.38	120.80
35	BB	1689	A	C4-C5-C6	6.18	120.09	117.00
35	BB	2337	G	C4-C5-C6	6.18	122.51	118.80
35	BB	2393	U	C5-C6-N1	6.18	125.79	122.70
1	AA	340	U	C5-C4-O4	-6.18	122.19	125.90
1	AA	1054	C	OP2-P-O3'	6.18	118.80	105.20
1	AA	1424	U	N3-C4-O4	6.18	123.73	119.40
23	AX	22	A	N1-C6-N6	-6.18	114.89	118.60
35	BB	14	A	N1-C6-N6	6.18	122.31	118.60
35	BB	1660	G	C2-N3-C4	6.18	114.99	111.90
35	BB	1669	A	C4-C5-N7	-6.18	107.61	110.70
35	BB	2620	C	C6-N1-C2	6.18	122.77	120.30
1	AA	460	A	N1-C2-N3	-6.18	126.21	129.30
1	AA	823	C	N3-C4-N4	6.18	122.33	118.00
1	AA	892	A	C5-C6-N1	-6.18	114.61	117.70
35	BB	508	A	C1'-O4'-C4'	-6.18	104.96	109.90
35	BB	618	G	N1-C6-O6	6.18	123.61	119.90
35	BB	1166	G	C5-C6-O6	-6.18	124.89	128.60
35	BB	1175	A	O4'-C1'-N9	6.18	113.14	108.20
35	BB	1783	A	O4'-C1'-N9	6.18	113.14	108.20
35	BB	2058	A	N1-C6-N6	6.18	122.31	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2089	C	P-O3'-C3'	-6.18	112.28	119.70
35	BB	2175	C	P-O3'-C3'	6.18	127.12	119.70
35	BB	2511	U	N1-C2-N3	-6.18	111.19	114.90
35	BB	2534	A	C5-C6-N1	-6.18	114.61	117.70
1	AA	118	U	C5-C6-N1	6.18	125.79	122.70
1	AA	454	G	N1-C6-O6	6.18	123.61	119.90
1	AA	1214	C	C4-C5-C6	6.18	120.49	117.40
3	AC	111	ASP	N-CA-CB	6.18	121.72	110.60
35	BB	1907	G	N1-C6-O6	6.18	123.61	119.90
35	BB	2576	G	C8-N9-C1'	-6.18	118.97	127.00
1	AA	834	U	C4-C5-C6	6.18	123.41	119.70
35	BB	370	G	P-O3'-C3'	6.18	127.11	119.70
35	BB	420	C	C5-C6-N1	6.18	124.09	121.00
35	BB	496	G	N3-C4-N9	6.18	129.71	126.00
35	BB	763	G	C4-N9-C1'	-6.18	118.47	126.50
35	BB	857	G	C6-C5-N7	-6.18	126.69	130.40
35	BB	2271	G	C5-C6-N1	-6.18	108.41	111.50
35	BB	2376	A	C5-C6-N6	-6.18	118.76	123.70
35	BB	2615	U	P-O3'-C3'	-6.18	112.29	119.70
44	BK	71	ARG	CD-NE-CZ	-6.18	114.95	123.60
49	BP	75	THR	CA-CB-CG2	-6.18	103.75	112.40
1	AA	103	U	O4'-C1'-N1	6.17	113.14	108.20
1	AA	229	U	C5-C6-N1	6.17	125.79	122.70
1	AA	951	G	N7-C8-N9	6.17	116.19	113.10
1	AA	997	U	C1'-O4'-C4'	6.17	114.84	109.90
35	BB	37	C	C4'-C3'-C2'	-6.17	96.43	102.60
35	BB	1338	G	N1-C6-O6	6.17	123.60	119.90
35	BB	2314	A	N9-C1'-C2'	-6.17	105.21	112.00
1	AA	41	G	O4'-C1'-N9	6.17	113.14	108.20
1	AA	300	A	C6-N1-C2	-6.17	114.90	118.60
1	AA	438	U	N1-C2-O2	-6.17	118.48	122.80
1	AA	669	G	N3-C4-N9	6.17	129.70	126.00
1	AA	775	G	C6-C5-N7	-6.17	126.70	130.40
35	BB	950	G	N3-C4-N9	-6.17	122.30	126.00
35	BB	1426	G	C4-C5-C6	6.17	122.50	118.80
35	BB	2188	U	C6-N1-C2	-6.17	117.30	121.00
35	BB	2248	C	C5-C6-N1	6.17	124.09	121.00
35	BB	2290	G	C4-C5-N7	-6.17	108.33	110.80
1	AA	312	C	C5-C6-N1	6.17	124.09	121.00
1	AA	902	G	C4-C5-N7	6.17	113.27	110.80
1	AA	1454	G	C4-C5-N7	-6.17	108.33	110.80
35	BB	54	G	N1-C2-N3	-6.17	120.20	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	285	G	N7-C8-N9	6.17	116.19	113.10
35	BB	390	U	N3-C4-C5	-6.17	110.90	114.60
35	BB	985	C	C2-N3-C4	6.17	122.99	119.90
35	BB	1580	A	C6-C5-N7	-6.17	127.98	132.30
35	BB	2044	C	C6-N1-C2	-6.17	117.83	120.30
11	AK	126	ARG	NE-CZ-NH1	6.17	123.39	120.30
12	AL	109	ARG	NE-CZ-NH2	-6.17	117.22	120.30
22	AV	57	A	C4-C5-C6	6.17	120.08	117.00
35	BB	406	G	C4-C5-N7	-6.17	108.33	110.80
35	BB	875	G	N1-C6-O6	6.17	123.60	119.90
35	BB	2151	U	P-O5'-C5'	6.17	130.77	120.90
35	BB	2569	G	O4'-C1'-N9	6.17	113.14	108.20
35	BB	2718	G	P-O5'-C5'	-6.17	111.03	120.90
1	AA	35	G	C5-C6-O6	-6.17	124.90	128.60
1	AA	249	U	N3-C2-O2	6.17	126.52	122.20
1	AA	503	C	C5-C4-N4	-6.17	115.88	120.20
1	AA	630	A	C5-C6-N1	-6.17	114.62	117.70
1	AA	962	C	N3-C2-O2	6.17	126.22	121.90
1	AA	1093	A	C4-C5-N7	6.17	113.78	110.70
1	AA	1349	A	N1-C6-N6	6.17	122.30	118.60
9	AI	129	ARG	NE-CZ-NH2	-6.17	117.22	120.30
11	AK	122	PRO	N-CA-CB	-6.17	95.81	102.60
15	AO	53	ARG	NE-CZ-NH1	6.17	123.38	120.30
35	BB	277	G	N7-C8-N9	-6.17	110.02	113.10
35	BB	405	U	C6-N1-C2	6.17	124.70	121.00
35	BB	1164	C	C1'-O4'-C4'	-6.17	104.97	109.90
35	BB	1951	U	C2-N3-C4	6.17	130.70	127.00
35	BB	2148	G	P-O3'-C3'	6.17	127.10	119.70
35	BB	2688	G	P-O3'-C3'	-6.17	112.30	119.70
1	AA	1093	A	C2-N3-C4	6.17	113.68	110.60
34	BA	101	A	N9-C4-C5	-6.17	103.33	105.80
35	BB	249	C	C4-C5-C6	-6.17	114.32	117.40
35	BB	423	A	C8-N9-C4	-6.17	103.33	105.80
35	BB	523	C	C6-N1-C2	6.17	122.77	120.30
1	AA	129	A	C4-C5-N7	-6.17	107.62	110.70
1	AA	213	G	C1'-O4'-C4'	-6.17	104.97	109.90
1	AA	272	C	C2-N3-C4	6.17	122.98	119.90
1	AA	799	G	C2-N3-C4	6.17	114.98	111.90
35	BB	375	G	C5-N7-C8	6.17	107.38	104.30
35	BB	2046	G	N3-C2-N2	6.17	124.22	119.90
1	AA	295	C	C2-N3-C4	6.16	122.98	119.90
1	AA	404	G	N1-C2-N3	-6.16	120.20	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	604	G	N1-C2-N2	-6.16	110.65	116.20
1	AA	615	G	O4'-C1'-N9	6.16	113.13	108.20
1	AA	1236	A	C6-C5-N7	-6.16	127.99	132.30
3	AC	182	ASP	CB-CG-OD2	-6.16	112.75	118.30
35	BB	534	U	N3-C4-O4	6.16	123.71	119.40
35	BB	614	A	C5'-C4'-C3'	-6.16	106.14	116.00
35	BB	641	U	N3-C2-O2	6.16	126.52	122.20
35	BB	875	G	O4'-C1'-N9	6.16	113.13	108.20
35	BB	1142	A	N1-C2-N3	-6.16	126.22	129.30
35	BB	1246	A	C6-N1-C2	6.16	122.30	118.60
35	BB	1567	G	O4'-C1'-N9	6.16	113.13	108.20
35	BB	1778	U	C6-N1-C2	-6.16	117.30	121.00
35	BB	2108	A	N1-C6-N6	6.16	122.30	118.60
1	AA	84	U	C3'-C2'-C1'	-6.16	96.57	101.50
1	AA	728	A	C1'-O4'-C4'	6.16	114.83	109.90
35	BB	194	G	N3-C4-C5	6.16	131.68	128.60
35	BB	294	A	N1-C2-N3	6.16	132.38	129.30
35	BB	1354	A	C2-N3-C4	-6.16	107.52	110.60
35	BB	1523	U	OP1-P-OP2	-6.16	110.36	119.60
35	BB	2416	C	C3'-C2'-C1'	-6.16	96.57	101.50
35	BB	2717	C	C2-N1-C1'	6.16	125.58	118.80
40	BG	29	ASN	N-CA-CB	6.16	121.69	110.60
1	AA	48	C	C6-N1-C2	-6.16	117.84	120.30
1	AA	452	A	C4-C5-C6	6.16	120.08	117.00
1	AA	1092	A	C1'-O4'-C4'	-6.16	104.97	109.90
1	AA	1492	A	N3-C4-C5	-6.16	122.49	126.80
35	BB	621	A	C5-N7-C8	-6.16	100.82	103.90
35	BB	1008	A	C2-N3-C4	-6.16	107.52	110.60
35	BB	1709	U	N3-C2-O2	6.16	126.51	122.20
35	BB	2087	G	O4'-C1'-N9	6.16	113.13	108.20
35	BB	2445	G	C2'-C3'-O3'	6.16	123.56	113.70
35	BB	2470	G	O4'-C1'-N9	6.16	113.13	108.20
35	BB	2523	G	C6-C5-N7	-6.16	126.70	130.40
1	AA	1268	G	N3-C4-C5	-6.16	125.52	128.60
1	AA	1427	C	P-O3'-C3'	-6.16	112.31	119.70
1	AA	1503	A	O5'-P-OP1	-6.16	100.16	105.70
7	AG	118	ARG	NE-CZ-NH1	6.16	123.38	120.30
35	BB	231	A	C5-C6-N6	-6.16	118.77	123.70
35	BB	1255	U	P-O3'-C3'	-6.16	112.31	119.70
35	BB	1586	A	C5-C6-N6	-6.16	118.77	123.70
35	BB	1605	C	O4'-C1'-N1	6.16	113.13	108.20
35	BB	1720	U	N3-C4-O4	6.16	123.71	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1899	A	N1-C2-N3	6.16	132.38	129.30
35	BB	1953	A	C4-C5-C6	6.16	120.08	117.00
35	BB	2602	A	N1-C2-N3	6.16	132.38	129.30
1	AA	1229	A	C4'-C3'-C2'	-6.16	96.44	102.60
35	BB	794	A	C5-C6-N6	-6.16	118.78	123.70
35	BB	2395	C	N1-C2-O2	6.16	122.59	118.90
1	AA	259	G	C3'-C2'-C1'	6.16	106.42	101.50
1	AA	517	G	C5'-C4'-O4'	6.16	116.49	109.10
1	AA	1086	U	N3-C4-O4	6.16	123.71	119.40
1	AA	1156	G	C4-C5-N7	-6.16	108.34	110.80
35	BB	118	A	O4'-C1'-N9	6.16	113.12	108.20
35	BB	141	G	N3-C4-C5	6.16	131.68	128.60
35	BB	487	C	N1-C2-O2	6.16	122.59	118.90
35	BB	496	G	C4-C5-N7	6.16	113.26	110.80
35	BB	734	A	N1-C2-N3	6.16	132.38	129.30
35	BB	830	G	N9-C4-C5	6.16	107.86	105.40
35	BB	1028	A	C6-C5-N7	-6.16	127.99	132.30
35	BB	1059	G	C1'-O4'-C4'	-6.16	104.98	109.90
35	BB	2477	U	N3-C4-O4	6.16	123.71	119.40
35	BB	1926	U	C5-C6-N1	6.15	125.78	122.70
35	BB	2231	U	C3'-C2'-C1'	-6.15	96.58	101.50
1	AA	383	A	C4-C5-C6	6.15	120.08	117.00
1	AA	758	C	C6-N1-C2	-6.15	117.84	120.30
1	AA	1148	U	C5-C4-O4	-6.15	122.21	125.90
35	BB	799	G	C5-N7-C8	-6.15	101.22	104.30
35	BB	852	U	C5-C6-N1	6.15	125.78	122.70
35	BB	1068	G	C4-C5-N7	-6.15	108.34	110.80
35	BB	1099	G	C6-N1-C2	-6.15	121.41	125.10
35	BB	1177	G	C8-N9-C4	6.15	108.86	106.40
35	BB	1206	G	N1-C2-N3	-6.15	120.21	123.90
35	BB	2718	G	N1-C2-N3	-6.15	120.21	123.90
1	AA	322	C	C5-C4-N4	6.15	124.50	120.20
1	AA	577	G	N1-C2-N3	-6.15	120.21	123.90
1	AA	1087	G	C6-N1-C2	6.15	128.79	125.10
16	AP	23	ASP	CB-CG-OD2	6.15	123.83	118.30
35	BB	117	G	C4-C5-N7	6.15	113.26	110.80
35	BB	483	A	N9-C4-C5	6.15	108.26	105.80
35	BB	1546	G	C5'-C4'-C3'	-6.15	106.16	116.00
35	BB	2099	U	O4'-C1'-N1	6.15	113.12	108.20
35	BB	2279	G	N7-C8-N9	6.15	116.18	113.10
35	BB	2577	A	P-O3'-C3'	6.15	127.08	119.70
36	BC	59	GLN	N-CA-CB	6.15	121.67	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1187	G	N3-C2-N2	6.15	124.20	119.90
1	AA	1393	U	C5-C4-O4	-6.15	122.21	125.90
1	AA	1402	C	C2-N3-C4	6.15	122.97	119.90
1	AA	1405	G	C5-C6-N1	-6.15	108.43	111.50
3	AC	116	ALA	CB-CA-C	6.15	119.32	110.10
35	BB	258	G	N3-C2-N2	6.15	124.20	119.90
35	BB	867	C	N1-C2-N3	-6.15	114.90	119.20
35	BB	1167	C	C1'-O4'-C4'	6.15	114.82	109.90
35	BB	1276	A	N7-C8-N9	6.15	116.88	113.80
35	BB	1914	C	N3-C4-N4	6.15	122.30	118.00
1	AA	119	A	N1-C6-N6	6.15	122.29	118.60
1	AA	720	C	C4-C5-C6	-6.15	114.33	117.40
1	AA	1012	A	C5-N7-C8	6.15	106.97	103.90
1	AA	1266	G	N1-C6-O6	6.15	123.59	119.90
20	AT	69	ASN	CB-CA-C	-6.15	98.10	110.40
35	BB	1275	A	C3'-C2'-C1'	6.15	106.42	101.50
35	BB	1425	G	P-O3'-C3'	-6.15	112.32	119.70
1	AA	1522	U	N1-C2-O2	6.15	127.10	122.80
13	AM	107	THR	CA-CB-CG2	-6.15	103.80	112.40
35	BB	57	C	N3-C4-C5	-6.15	119.44	121.90
35	BB	287	G	N7-C8-N9	6.15	116.17	113.10
35	BB	449	A	C2-N3-C4	6.15	113.67	110.60
35	BB	1197	G	N7-C8-N9	6.15	116.17	113.10
35	BB	1858	A	OP1-P-OP2	-6.15	110.38	119.60
35	BB	2200	C	C6-N1-C1'	-6.15	113.42	120.80
1	AA	36	C	N1-C1'-C2'	-6.14	105.24	112.00
1	AA	227	G	C6-C5-N7	-6.14	126.71	130.40
1	AA	881	G	C4'-C3'-C2'	-6.14	96.45	102.60
1	AA	1070	U	C5-C4-O4	-6.14	122.21	125.90
1	AA	1096	C	C6-N1-C2	6.14	122.76	120.30
1	AA	1357	A	C2-N3-C4	-6.14	107.53	110.60
3	AC	176	THR	CA-CB-CG2	-6.14	103.80	112.40
19	AS	80	ARG	NE-CZ-NH2	-6.14	117.23	120.30
34	BA	36	C	N3-C4-C5	-6.14	119.44	121.90
35	BB	109	C	N3-C4-C5	-6.14	119.44	121.90
35	BB	217	A	N3-C4-N9	6.14	132.31	127.40
35	BB	419	U	N1-C2-O2	-6.14	118.50	122.80
35	BB	602	A	C5-N7-C8	6.14	106.97	103.90
35	BB	1042	G	P-O3'-C3'	-6.14	112.33	119.70
35	BB	1212	G	C4'-C3'-C2'	-6.14	96.46	102.60
35	BB	1274	A	C1'-O4'-C4'	-6.14	104.98	109.90
1	AA	404	G	C6-C5-N7	-6.14	126.72	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	781	A	C5-N7-C8	6.14	106.97	103.90
1	AA	1185	G	O4'-C1'-C2'	-6.14	99.66	105.80
5	AE	68	ARG	NE-CZ-NH2	-6.14	117.23	120.30
35	BB	5	A	C4'-C3'-C2'	-6.14	96.46	102.60
35	BB	303	G	C6-C5-N7	-6.14	126.72	130.40
35	BB	307	G	C5-C6-N1	-6.14	108.43	111.50
35	BB	618	G	C6-C5-N7	-6.14	126.72	130.40
35	BB	934	U	C2-N3-C4	6.14	130.69	127.00
35	BB	1163	G	N7-C8-N9	-6.14	110.03	113.10
35	BB	1836	C	N3-C4-N4	6.14	122.30	118.00
35	BB	2107	G	O3'-P-O5'	-6.14	92.33	104.00
35	BB	2213	U	C1'-O4'-C4'	-6.14	104.99	109.90
35	BB	2659	G	N7-C8-N9	6.14	116.17	113.10
1	AA	289	G	O4'-C1'-N9	6.14	113.11	108.20
1	AA	523	A	N9-C4-C5	6.14	108.26	105.80
1	AA	1122	U	N1-C2-O2	-6.14	118.50	122.80
1	AA	1487	G	C4-C5-N7	-6.14	108.34	110.80
22	AV	13	C	N3-C4-N4	6.14	122.30	118.00
35	BB	309	A	N3-C4-N9	-6.14	122.49	127.40
35	BB	1487	U	C4'-C3'-C2'	-6.14	96.46	102.60
1	AA	829	G	N7-C8-N9	6.14	116.17	113.10
1	AA	1198	G	N1-C6-O6	6.14	123.58	119.90
21	AU	37	TYR	CB-CG-CD2	-6.14	117.32	121.00
34	BA	62	C	C5-C4-N4	-6.14	115.90	120.20
35	BB	702	U	C5-C6-N1	6.14	125.77	122.70
35	BB	895	U	N1-C2-O2	-6.14	118.50	122.80
35	BB	1075	C	C2-N1-C1'	-6.14	112.05	118.80
35	BB	1322	A	C4-C5-C6	6.14	120.07	117.00
35	BB	1527	G	O4'-C1'-N9	6.14	113.11	108.20
35	BB	1529	G	C8-N9-C4	-6.14	103.94	106.40
35	BB	2278	A	C4-C5-C6	6.14	120.07	117.00
1	AA	128	G	N1-C2-N2	-6.14	110.68	116.20
1	AA	1531	A	N3-C4-C5	-6.14	122.50	126.80
34	BA	57	A	C1'-O4'-C4'	-6.14	104.99	109.90
35	BB	698	C	C6-N1-C1'	6.14	128.16	120.80
35	BB	1535	A	C4-C5-N7	6.14	113.77	110.70
35	BB	1653	G	N9-C4-C5	-6.14	102.94	105.40
1	AA	860	A	C4-C5-C6	6.14	120.07	117.00
1	AA	1403	C	N3-C4-N4	6.14	122.30	118.00
35	BB	52	A	C4'-C3'-C2'	-6.14	96.46	102.60
35	BB	218	A	N3-C4-N9	-6.14	122.49	127.40
35	BB	604	G	C5-C6-N1	-6.14	108.43	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	715	A	N1-C2-N3	6.14	132.37	129.30
35	BB	808	G	N1-C6-O6	6.14	123.58	119.90
35	BB	1638	C	N3-C4-N4	6.14	122.30	118.00
35	BB	2371	G	C4-C5-C6	6.14	122.48	118.80
35	BB	2590	A	C1'-O4'-C4'	6.14	114.81	109.90
41	BH	149	GLU	N-CA-CB	6.14	121.65	110.60
56	BY	14	ASP	CB-CG-OD2	6.14	123.82	118.30
1	AA	1142	G	N9-C4-C5	6.13	107.85	105.40
1	AA	1173	U	C5-C4-O4	-6.13	122.22	125.90
1	AA	1220	G	C2-N3-C4	6.13	114.97	111.90
1	AA	1310	G	C5-N7-C8	-6.13	101.23	104.30
34	BA	106	G	N1-C6-O6	6.13	123.58	119.90
35	BB	48	G	C8-N9-C4	6.13	108.85	106.40
35	BB	103	A	C4-C5-N7	-6.13	107.63	110.70
35	BB	355	U	P-O3'-C3'	-6.13	112.34	119.70
35	BB	496	G	C5'-C4'-C3'	-6.13	106.19	116.00
35	BB	806	C	N3-C4-N4	6.13	122.29	118.00
35	BB	833	A	O4'-C1'-N9	6.13	113.11	108.20
35	BB	886	A	C5-C6-N6	-6.13	118.79	123.70
35	BB	899	A	N9-C4-C5	-6.13	103.35	105.80
35	BB	1066	U	O4'-C1'-N1	6.13	113.11	108.20
35	BB	1189	A	N3-C4-N9	-6.13	122.49	127.40
35	BB	1203	U	C4-C5-C6	6.13	123.38	119.70
35	BB	2565	A	C5-C6-N6	-6.13	118.79	123.70
35	BB	2625	G	C6-C5-N7	-6.13	126.72	130.40
1	AA	400	C	P-O3'-C3'	-6.13	112.34	119.70
1	AA	410	G	N1-C2-N3	-6.13	120.22	123.90
1	AA	669	G	N1-C6-O6	6.13	123.58	119.90
2	AB	112	ARG	NE-CZ-NH1	6.13	123.37	120.30
35	BB	187	G	O4'-C1'-N9	6.13	113.11	108.20
35	BB	1423	G	C5-C6-O6	-6.13	124.92	128.60
35	BB	2645	G	C6-C5-N7	-6.13	126.72	130.40
1	AA	111	G	C5-N7-C8	6.13	107.37	104.30
1	AA	185	U	C5-C6-N1	6.13	125.77	122.70
1	AA	561	U	N3-C4-O4	-6.13	115.11	119.40
35	BB	767	U	N1-C2-O2	-6.13	118.51	122.80
35	BB	1233	C	N1-C1'-C2'	-6.13	105.25	112.00
35	BB	1359	A	C8-N9-C4	-6.13	103.35	105.80
35	BB	1941	C	C5-C4-N4	-6.13	115.91	120.20
35	BB	2057	G	C5-C6-N1	-6.13	108.43	111.50
35	BB	2144	G	C4-C5-C6	6.13	122.48	118.80
35	BB	2223	G	O4'-C1'-N9	6.13	113.11	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2502	G	C6-C5-N7	-6.13	126.72	130.40
35	BB	2689	U	N1-C2-O2	6.13	127.09	122.80
35	BB	2763	G	N7-C8-N9	6.13	116.17	113.10
35	BB	2843	G	N3-C4-C5	-6.13	125.53	128.60
52	BS	34	ASP	CB-CA-C	-6.13	98.14	110.40
34	BA	37	C	C1'-O4'-C4'	6.13	114.80	109.90
35	BB	162	U	O4'-C1'-N1	6.13	113.10	108.20
35	BB	205	G	C6-C5-N7	-6.13	126.72	130.40
35	BB	743	A	P-O3'-C3'	-6.13	112.34	119.70
1	AA	189	A	C5-C6-N1	-6.13	114.64	117.70
35	BB	119	A	O4'-C1'-N9	6.13	113.10	108.20
35	BB	571	U	O4'-C1'-N1	6.13	113.10	108.20
35	BB	769	U	C5-C4-O4	-6.13	122.22	125.90
35	BB	912	C	P-O5'-C5'	6.13	130.71	120.90
35	BB	981	A	N3-C4-C5	-6.13	122.51	126.80
35	BB	1207	C	N3-C4-C5	-6.13	119.45	121.90
35	BB	2382	G	N9-C4-C5	-6.13	102.95	105.40
35	BB	2399	G	P-O3'-C3'	-6.13	112.35	119.70
35	BB	43	G	N1-C2-N3	-6.13	120.22	123.90
35	BB	51	G	C5-C6-O6	-6.13	124.92	128.60
35	BB	723	C	C5-C4-N4	-6.13	115.91	120.20
35	BB	756	A	O4'-C1'-N9	6.13	113.10	108.20
35	BB	808	G	C2-N3-C4	-6.13	108.84	111.90
35	BB	1036	G	N3-C2-N2	6.13	124.19	119.90
35	BB	1394	U	C4'-C3'-C2'	-6.13	96.47	102.60
35	BB	1475	G	C2-N3-C4	6.13	114.96	111.90
35	BB	1604	C	O4'-C1'-N1	6.13	113.10	108.20
35	BB	1910	G	C6-C5-N7	-6.13	126.72	130.40
35	BB	2100	G	C8-N9-C4	-6.13	103.95	106.40
35	BB	2172	U	N1-C2-N3	-6.13	111.22	114.90
35	BB	2563	U	C2-N3-C4	6.13	130.68	127.00
35	BB	2902	C	C1'-O4'-C4'	-6.13	105.00	109.90
1	AA	280	C	C4'-C3'-C2'	6.12	108.72	102.60
1	AA	756	C	C5-C4-N4	-6.12	115.91	120.20
1	AA	817	C	C5'-C4'-C3'	-6.12	106.20	116.00
1	AA	838	G	C4-C5-N7	6.12	113.25	110.80
13	AM	91	ARG	NE-CZ-NH1	6.12	123.36	120.30
35	BB	328	U	O4'-C1'-N1	6.12	113.10	108.20
35	BB	366	C	C2-N3-C4	6.12	122.96	119.90
35	BB	570	G	N9-C4-C5	6.12	107.85	105.40
35	BB	1372	U	C5-C6-N1	-6.12	119.64	122.70
35	BB	1429	G	C4-C5-C6	6.12	122.47	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2065	C	O4'-C1'-C2'	6.12	113.11	107.60
35	BB	2455	G	N1-C2-N2	-6.12	110.69	116.20
1	AA	660	C	N3-C4-N4	6.12	122.29	118.00
1	AA	742	G	O4'-C1'-N9	6.12	113.10	108.20
1	AA	1002	G	C2-N3-C4	6.12	114.96	111.90
11	AK	76	TYR	CB-CG-CD1	-6.12	117.33	121.00
35	BB	638	G	C8-N9-C1'	6.12	134.96	127.00
35	BB	1266	G	O4'-C1'-C2'	-6.12	99.68	105.80
35	BB	1563	U	N1-C2-N3	-6.12	111.23	114.90
35	BB	2127	G	C5'-C4'-O4'	-6.12	101.75	109.10
1	AA	140	U	C1'-O4'-C4'	-6.12	105.00	109.90
1	AA	407	U	O4'-C1'-N1	6.12	113.10	108.20
1	AA	437	U	N3-C4-C5	-6.12	110.93	114.60
1	AA	728	A	N3-C4-C5	-6.12	122.52	126.80
1	AA	955	U	N3-C4-O4	6.12	123.69	119.40
19	AS	79	TYR	CB-CG-CD1	-6.12	117.33	121.00
35	BB	1160	G	C5'-C4'-C3'	6.12	125.79	116.00
35	BB	1594	U	N1-C2-O2	-6.12	118.52	122.80
35	BB	1625	C	N3-C4-C5	-6.12	119.45	121.90
35	BB	1928	A	C5-C6-N6	-6.12	118.80	123.70
35	BB	2493	U	C4-C5-C6	6.12	123.37	119.70
36	BC	82	TYR	CB-CG-CD1	-6.12	117.33	121.00
1	AA	304	U	N3-C4-C5	-6.12	110.93	114.60
1	AA	951	G	C5-C6-N1	-6.12	108.44	111.50
1	AA	1092	A	C5-C6-N1	-6.12	114.64	117.70
35	BB	727	A	C3'-C2'-C1'	6.12	106.40	101.50
35	BB	1880	U	C5-C6-N1	6.12	125.76	122.70
1	AA	31	G	C5'-C4'-C3'	-6.12	106.21	116.00
1	AA	69	G	N3-C4-C5	6.12	131.66	128.60
1	AA	627	G	C6-C5-N7	-6.12	126.73	130.40
1	AA	916	U	O4'-C1'-N1	6.12	113.10	108.20
1	AA	962	C	C1'-O4'-C4'	6.12	114.80	109.90
35	BB	407	G	N3-C4-C5	-6.12	125.54	128.60
35	BB	468	G	N1-C2-N3	-6.12	120.23	123.90
35	BB	1366	A	O4'-C1'-N9	6.12	113.09	108.20
35	BB	1369	G	N1-C2-N3	-6.12	120.23	123.90
35	BB	1663	G	P-O3'-C3'	6.12	127.04	119.70
35	BB	1664	A	C5-C6-N1	-6.12	114.64	117.70
35	BB	2829	A	C4-C5-N7	6.12	113.76	110.70
35	BB	2860	A	C4-C5-C6	6.12	120.06	117.00
1	AA	474	G	C4-C5-C6	6.12	122.47	118.80
1	AA	511	C	C5'-C4'-O4'	6.12	116.44	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	7	G	N3-C2-N2	6.12	124.18	119.90
35	BB	2788	C	C5-C6-N1	6.12	124.06	121.00
1	AA	377	G	C8-N9-C4	-6.12	103.95	106.40
1	AA	418	C	C2-N1-C1'	6.12	125.53	118.80
1	AA	964	A	O4'-C1'-N9	6.12	113.09	108.20
1	AA	1043	G	C4'-C3'-C2'	6.12	108.72	102.60
34	BA	118	C	N1-C2-O2	-6.12	115.23	118.90
35	BB	366	C	P-O3'-C3'	-6.12	112.36	119.70
35	BB	500	G	C4-C5-C6	6.12	122.47	118.80
35	BB	623	C	C4'-C3'-C2'	-6.12	96.48	102.60
35	BB	805	G	C5-C6-O6	-6.12	124.93	128.60
35	BB	912	C	C6-N1-C2	-6.12	117.85	120.30
35	BB	1029	A	C6-C5-N7	-6.12	128.02	132.30
35	BB	1072	C	C6-N1-C2	-6.12	117.85	120.30
35	BB	1567	G	C5-C6-O6	-6.12	124.93	128.60
35	BB	1929	G	N1-C6-O6	6.12	123.57	119.90
35	BB	2095	A	C5'-C4'-O4'	6.12	116.44	109.10
35	BB	2748	A	N9-C4-C5	-6.12	103.35	105.80
35	BB	2846	G	O4'-C1'-N9	6.12	113.09	108.20
1	AA	203	G	P-O3'-C3'	-6.11	112.36	119.70
1	AA	805	C	C6-N1-C2	-6.11	117.85	120.30
1	AA	973	G	N7-C8-N9	6.11	116.16	113.10
1	AA	1063	C	N3-C4-N4	6.11	122.28	118.00
1	AA	1072	G	OP1-P-OP2	-6.11	110.43	119.60
1	AA	1483	A	C5-C6-N6	-6.11	118.81	123.70
35	BB	930	G	C5-C6-O6	-6.11	124.93	128.60
35	BB	1527	G	C5-C6-N1	-6.11	108.44	111.50
35	BB	1861	G	C1'-O4'-C4'	-6.11	105.01	109.90
35	BB	1870	C	O4'-C1'-N1	6.11	113.09	108.20
35	BB	2405	G	C5-N7-C8	6.11	107.36	104.30
1	AA	92	U	O4'-C1'-N1	6.11	113.09	108.20
35	BB	26	G	N1-C2-N3	-6.11	120.23	123.90
35	BB	507	A	O4'-C1'-N9	6.11	113.09	108.20
35	BB	1232	G	O4'-C1'-N9	6.11	113.09	108.20
46	BM	75	GLU	N-CA-C	-6.11	94.50	111.00
1	AA	1041	G	O4'-C1'-N9	6.11	113.09	108.20
4	AD	18	LEU	N-CA-CB	6.11	122.62	110.40
35	BB	459	U	N1-C2-O2	-6.11	118.52	122.80
35	BB	606	U	P-O3'-C3'	6.11	127.03	119.70
35	BB	1027	A	C5-C6-N6	-6.11	118.81	123.70
35	BB	1525	A	C5-C6-N1	-6.11	114.64	117.70
35	BB	2147	A	N1-C2-N3	6.11	132.35	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2533	U	N3-C2-O2	-6.11	117.92	122.20
40	BG	51	PHE	CB-CG-CD1	-6.11	116.52	120.80
1	AA	488	C	N1-C2-O2	-6.11	115.23	118.90
1	AA	1300	G	C5-N7-C8	6.11	107.36	104.30
35	BB	711	G	C8-N9-C4	-6.11	103.96	106.40
35	BB	830	G	C4-C5-N7	-6.11	108.36	110.80
43	BJ	6	ALA	CB-CA-C	-6.11	100.94	110.10
1	AA	149	A	O4'-C1'-N9	6.11	113.08	108.20
1	AA	353	A	C4-C5-N7	-6.11	107.65	110.70
1	AA	592	G	C5-C6-N1	-6.11	108.45	111.50
1	AA	725	G	C8-N9-C4	6.11	108.84	106.40
35	BB	262	A	C6-N1-C2	6.11	122.26	118.60
35	BB	313	G	C5-C6-N1	-6.11	108.45	111.50
35	BB	527	C	C6-N1-C1'	-6.11	113.47	120.80
35	BB	594	U	N3-C4-C5	-6.11	110.94	114.60
35	BB	898	C	N3-C4-C5	-6.11	119.46	121.90
35	BB	1161	C	N3-C4-C5	-6.11	119.46	121.90
35	BB	1452	G	N1-C2-N3	-6.11	120.24	123.90
35	BB	2119	A	N7-C8-N9	-6.11	110.75	113.80
1	AA	202	G	N3-C2-N2	6.11	124.17	119.90
1	AA	239	U	N3-C2-O2	6.11	126.47	122.20
1	AA	449	G	C4-C5-N7	6.11	113.24	110.80
1	AA	1185	G	O4'-C4'-C3'	-6.11	97.89	104.00
1	AA	1436	U	C2-N3-C4	6.11	130.66	127.00
16	AP	17	TYR	CZ-CE2-CD2	6.11	125.30	119.80
35	BB	500	G	C1'-O4'-C4'	6.11	114.78	109.90
35	BB	1354	A	N1-C2-N3	6.11	132.35	129.30
35	BB	1661	G	N1-C2-N2	6.11	121.69	116.20
35	BB	2055	C	C5'-C4'-O4'	6.11	116.42	109.10
35	BB	2171	A	C2-N3-C4	-6.11	107.55	110.60
35	BB	2197	U	C6-N1-C2	6.11	124.66	121.00
35	BB	2493	U	O4'-C1'-N1	6.11	113.08	108.20
35	BB	2666	C	N1-C2-N3	-6.11	114.93	119.20
1	AA	292	G	C5-C6-O6	-6.10	124.94	128.60
1	AA	374	A	C5-N7-C8	6.10	106.95	103.90
1	AA	1158	C	C6-N1-C2	-6.10	117.86	120.30
1	AA	1310	G	C6-C5-N7	-6.10	126.74	130.40
35	BB	750	A	C5-C6-N6	-6.10	118.82	123.70
35	BB	1131	G	N1-C2-N3	-6.10	120.24	123.90
35	BB	1504	A	O4'-C1'-N9	6.10	113.08	108.20
35	BB	1635	A	O4'-C1'-N9	6.10	113.08	108.20
35	BB	1829	A	C6-C5-N7	-6.10	128.03	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2872	A	C4-C5-C6	6.10	120.05	117.00
1	AA	86	G	N1-C2-N2	-6.10	110.71	116.20
1	AA	156	C	O5'-C5'-C4'	-6.10	100.11	111.70
1	AA	862	C	P-O3'-C3'	6.10	127.02	119.70
1	AA	1443	C	C6-N1-C2	6.10	122.74	120.30
1	AA	1447	A	O4'-C1'-N9	6.10	113.08	108.20
35	BB	254	G	N3-C4-C5	-6.10	125.55	128.60
35	BB	1248	G	C6-C5-N7	-6.10	126.74	130.40
35	BB	1801	A	C5-C6-N1	-6.10	114.65	117.70
35	BB	38	A	OP1-P-OP2	-6.10	110.45	119.60
35	BB	432	A	C4-C5-N7	-6.10	107.65	110.70
35	BB	1374	G	C4-C5-N7	6.10	113.24	110.80
35	BB	1790	C	N3-C4-C5	-6.10	119.46	121.90
35	BB	2531	A	C4-C5-N7	-6.10	107.65	110.70
1	AA	69	G	C5-C6-O6	-6.10	124.94	128.60
1	AA	1218	C	O4'-C1'-N1	6.10	113.08	108.20
1	AA	1221	G	N1-C2-N3	-6.10	120.24	123.90
35	BB	1664	A	C5'-C4'-C3'	-6.10	106.24	116.00
35	BB	1962	C	O4'-C1'-N1	6.10	113.08	108.20
35	BB	1990	C	C5-C6-N1	-6.10	117.95	121.00
35	BB	2047	C	N3-C4-N4	6.10	122.27	118.00
35	BB	2164	C	N3-C4-C5	-6.10	119.46	121.90
35	BB	2247	A	N9-C4-C5	-6.10	103.36	105.80
35	BB	2578	G	N3-C4-N9	6.10	129.66	126.00
35	BB	2702	G	N1-C2-N3	-6.10	120.24	123.90
1	AA	142	G	C6-C5-N7	-6.10	126.74	130.40
1	AA	337	G	C4-C5-C6	6.10	122.46	118.80
1	AA	748	G	N3-C2-N2	6.10	124.17	119.90
1	AA	801	U	N3-C2-O2	6.10	126.47	122.20
1	AA	1444	U	C5-C6-N1	6.10	125.75	122.70
1	AA	1491	G	C6-C5-N7	-6.10	126.74	130.40
34	BA	60	C	C1'-O4'-C4'	6.10	114.78	109.90
35	BB	621	A	C4-C5-N7	6.10	113.75	110.70
35	BB	706	A	C4-C5-C6	6.10	120.05	117.00
35	BB	1730	C	C2-N1-C1'	6.10	125.51	118.80
35	BB	1744	A	O4'-C1'-N9	6.10	113.08	108.20
35	BB	1766	G	C4-C5-C6	6.10	122.46	118.80
35	BB	1936	A	C6-C5-N7	-6.10	128.03	132.30
35	BB	2219	U	C2-N3-C4	-6.10	123.34	127.00
35	BB	2499	C	N3-C4-N4	6.10	122.27	118.00
35	BB	2756	U	C5-C6-N1	6.10	125.75	122.70
35	BB	2856	A	C5-N7-C8	6.10	106.95	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BF	124	ARG	NE-CZ-NH1	6.10	123.35	120.30
16	AP	68	SER	O-C-N	-6.10	112.95	122.70
22	AV	26	A	C5-C6-N6	-6.10	118.82	123.70
35	BB	1186	G	N1-C6-O6	6.10	123.56	119.90
35	BB	1444	G	N1-C2-N3	6.10	127.56	123.90
35	BB	1770	G	C5-N7-C8	-6.10	101.25	104.30
1	AA	21	G	C2-N3-C4	6.09	114.95	111.90
1	AA	582	C	O4'-C1'-N1	6.09	113.08	108.20
1	AA	754	C	C2-N1-C1'	6.09	125.50	118.80
1	AA	1032	G	C2-N3-C4	6.09	114.95	111.90
1	AA	1134	G	N3-C4-C5	-6.09	125.55	128.60
1	AA	1271	A	O4'-C1'-N9	6.09	113.08	108.20
1	AA	1515	G	C5-N7-C8	6.09	107.35	104.30
34	BA	118	C	C5-C4-N4	-6.09	115.93	120.20
35	BB	562	U	N3-C2-O2	6.09	126.47	122.20
35	BB	896	A	C4-C5-C6	6.09	120.05	117.00
35	BB	993	G	N3-C2-N2	6.09	124.17	119.90
35	BB	1417	C	C6-N1-C2	6.09	122.74	120.30
35	BB	1528	A	C4-C5-C6	6.09	120.05	117.00
35	BB	2447	G	C4-C5-C6	-6.09	115.14	118.80
35	BB	2827	C	C1'-O4'-C4'	-6.09	105.02	109.90
43	BJ	27	ARG	NE-CZ-NH2	-6.09	117.25	120.30
1	AA	279	A	N1-C2-N3	6.09	132.35	129.30
1	AA	522	C	C5-C6-N1	6.09	124.05	121.00
35	BB	979	A	C2-N3-C4	-6.09	107.55	110.60
35	BB	2498	C	O4'-C1'-N1	6.09	113.08	108.20
1	AA	77	A	C6-N1-C2	6.09	122.25	118.60
1	AA	670	G	N3-C4-N9	-6.09	122.34	126.00
1	AA	1129	C	N3-C4-C5	-6.09	119.46	121.90
1	AA	1312	G	C6-N1-C2	6.09	128.75	125.10
34	BA	97	C	P-O3'-C3'	-6.09	112.39	119.70
35	BB	1038	G	C4-C5-N7	6.09	113.24	110.80
35	BB	1743	G	O4'-C1'-N9	6.09	113.07	108.20
35	BB	2087	G	C3'-C2'-C1'	6.09	106.37	101.50
1	AA	141	G	O4'-C1'-N9	6.09	113.07	108.20
1	AA	174	A	N7-C8-N9	-6.09	110.76	113.80
1	AA	402	G	C6-N1-C2	-6.09	121.45	125.10
1	AA	445	G	C3'-C2'-C1'	-6.09	96.63	101.50
1	AA	969	A	C5-C6-N1	-6.09	114.66	117.70
34	BA	76	G	C2-N3-C4	6.09	114.94	111.90
35	BB	501	A	C8-N9-C4	-6.09	103.36	105.80
35	BB	862	G	C4-C5-N7	6.09	113.24	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1111	A	C4-C5-N7	6.09	113.75	110.70
35	BB	1159	U	OP1-P-OP2	-6.09	110.47	119.60
35	BB	1260	A	C5-C6-N6	-6.09	118.83	123.70
35	BB	1378	A	N1-C2-N3	6.09	132.34	129.30
35	BB	2005	A	C5-C6-N1	-6.09	114.66	117.70
35	BB	2125	G	C4'-C3'-C2'	-6.09	96.51	102.60
35	BB	2140	G	OP1-P-OP2	-6.09	110.47	119.60
35	BB	2280	G	C5-C6-N1	-6.09	108.46	111.50
35	BB	2590	A	O4'-C1'-N9	6.09	113.07	108.20
48	BO	37	ALA	N-CA-CB	6.09	118.62	110.10
1	AA	178	C	O4'-C1'-N1	6.09	113.07	108.20
1	AA	514	C	C2-N3-C4	6.09	122.94	119.90
1	AA	531	U	C5-C6-N1	6.09	125.74	122.70
1	AA	821	G	N1-C2-N2	-6.09	110.72	116.20
28	B3	39	ARG	NE-CZ-NH1	6.09	123.34	120.30
35	BB	91	A	C4-C5-N7	-6.09	107.66	110.70
35	BB	1129	A	N3-C4-N9	6.09	132.27	127.40
35	BB	2173	A	O4'-C1'-N9	6.09	113.07	108.20
35	BB	2528	U	O4'-C1'-N1	6.09	113.07	108.20
1	AA	954	G	C4-C5-N7	-6.09	108.36	110.80
3	AC	92	ASP	CB-CG-OD1	-6.09	112.82	118.30
35	BB	963	U	N3-C4-C5	-6.09	110.95	114.60
35	BB	1668	A	C5-C6-N6	-6.09	118.83	123.70
35	BB	1770	G	C4-C5-C6	6.09	122.45	118.80
35	BB	1830	C	C6-N1-C2	6.09	122.73	120.30
35	BB	1884	G	N7-C8-N9	-6.09	110.06	113.10
35	BB	2480	C	C4'-C3'-C2'	-6.09	96.51	102.60
35	BB	2581	G	C5'-C4'-O4'	6.09	116.40	109.10
1	AA	37	U	C6-N1-C2	6.08	124.65	121.00
35	BB	876	C	C5'-C4'-C3'	-6.08	106.26	116.00
35	BB	1139	G	N1-C6-O6	6.08	123.55	119.90
35	BB	2353	G	C5-C6-O6	-6.08	124.95	128.60
52	BS	62	ASP	N-CA-CB	6.08	121.55	110.60
1	AA	276	G	C6-C5-N7	-6.08	126.75	130.40
1	AA	901	A	N1-C2-N3	6.08	132.34	129.30
15	AO	71	ARG	NE-CZ-NH1	-6.08	117.26	120.30
35	BB	347	A	N1-C2-N3	-6.08	126.26	129.30
35	BB	953	G	C4-C5-N7	6.08	113.23	110.80
35	BB	1084	A	O4'-C1'-N9	6.08	113.07	108.20
35	BB	1303	G	C5-C6-O6	-6.08	124.95	128.60
35	BB	1415	U	N3-C4-C5	-6.08	110.95	114.60
35	BB	1434	A	C5'-C4'-O4'	-6.08	101.80	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	2223	G	C4-C5-C6	6.08	122.45	118.80
35	BB	2642	G	N3-C4-N9	-6.08	122.35	126.00
35	BB	2778	A	C8-N9-C4	6.08	108.23	105.80
35	BB	2870	C	C5-C4-N4	-6.08	115.94	120.20
56	BY	59	PHE	CB-CG-CD2	-6.08	116.54	120.80
1	AA	816	A	O4'-C1'-C2'	6.08	113.07	107.60
1	AA	1376	U	N1-C2-N3	-6.08	111.25	114.90
35	BB	279	A	C5-C6-N6	-6.08	118.83	123.70
35	BB	444	C	N1-C2-O2	-6.08	115.25	118.90
35	BB	508	A	C5-C6-N6	-6.08	118.83	123.70
35	BB	543	G	C2-N3-C4	6.08	114.94	111.90
35	BB	1201	U	O4'-C4'-C3'	-6.08	97.92	104.00
35	BB	1454	C	P-O5'-C5'	-6.08	111.17	120.90
35	BB	1985	C	OP1-P-OP2	-6.08	110.48	119.60
35	BB	2521	C	N3-C2-O2	6.08	126.16	121.90
35	BB	2665	A	C5-N7-C8	6.08	106.94	103.90
45	BL	107	PHE	CB-CG-CD1	6.08	125.06	120.80
1	AA	886	G	N1-C6-O6	6.08	123.55	119.90
34	BA	55	U	O4'-C1'-N1	6.08	113.06	108.20
35	BB	1756	G	C5-C6-N1	-6.08	108.46	111.50
1	AA	514	C	O4'-C1'-N1	6.08	113.06	108.20
1	AA	928	G	C2-N3-C4	-6.08	108.86	111.90
34	BA	116	G	N3-C2-N2	6.08	124.16	119.90
35	BB	144	A	N7-C8-N9	6.08	116.84	113.80
35	BB	311	A	C4-C5-N7	-6.08	107.66	110.70
35	BB	581	C	N3-C4-N4	6.08	122.25	118.00
35	BB	701	G	P-O3'-C3'	-6.08	112.41	119.70
35	BB	936	A	C5-C6-N6	-6.08	118.84	123.70
35	BB	1519	G	C4-C5-N7	-6.08	108.37	110.80
35	BB	2329	U	C5-C6-N1	6.08	125.74	122.70
35	BB	2425	A	P-O3'-C3'	6.08	127.00	119.70
1	AA	894	G	O4'-C1'-N9	6.08	113.06	108.20
1	AA	1042	A	N3-C4-C5	6.08	131.05	126.80
1	AA	1082	A	N3-C4-N9	-6.08	122.54	127.40
1	AA	1325	C	C4-C5-C6	6.08	120.44	117.40
35	BB	980	A	C2-N3-C4	-6.08	107.56	110.60
35	BB	1243	C	C5-C6-N1	6.08	124.04	121.00
35	BB	1296	G	C5-C6-N1	-6.08	108.46	111.50
35	BB	1298	C	C6-N1-C2	6.08	122.73	120.30
35	BB	1546	G	N1-C6-O6	6.08	123.55	119.90
35	BB	1786	A	C4-C5-C6	6.08	120.04	117.00
35	BB	1892	C	O4'-C1'-N1	6.08	113.06	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2260	C	N3-C4-N4	6.08	122.25	118.00
1	AA	163	C	N3-C4-N4	6.08	122.25	118.00
1	AA	172	A	P-O3'-C3'	-6.08	112.41	119.70
1	AA	552	U	C5-C6-N1	6.08	125.74	122.70
1	AA	693	G	P-O5'-C5'	6.08	130.62	120.90
1	AA	726	C	P-O5'-C5'	6.08	130.62	120.90
1	AA	1282	C	N3-C4-N4	6.08	122.25	118.00
1	AA	1344	C	OP1-P-OP2	-6.08	110.49	119.60
1	AA	1530	G	N3-C2-N2	6.08	124.15	119.90
35	BB	102	U	C5-C6-N1	6.08	125.74	122.70
35	BB	245	G	C8-N9-C4	-6.08	103.97	106.40
35	BB	332	A	N3-C4-C5	-6.08	122.55	126.80
35	BB	599	A	C5-C6-N6	-6.08	118.84	123.70
35	BB	671	C	C1'-O4'-C4'	-6.08	105.04	109.90
35	BB	727	A	C5-C6-N1	-6.08	114.66	117.70
35	BB	792	A	C6-C5-N7	-6.08	128.05	132.30
35	BB	964	C	C3'-C2'-C1'	6.08	106.36	101.50
35	BB	1109	C	C6-N1-C1'	-6.08	113.51	120.80
35	BB	1699	G	N3-C4-N9	-6.08	122.36	126.00
35	BB	2451	A	N1-C2-N3	-6.08	126.26	129.30
35	BB	2682	A	C5-C6-N1	-6.08	114.66	117.70
43	BJ	48	VAL	CA-CB-CG1	-6.08	101.79	110.90
1	AA	586	C	C2-N3-C4	6.07	122.94	119.90
1	AA	777	A	N3-C4-C5	6.07	131.05	126.80
1	AA	878	A	N1-C6-N6	6.07	122.24	118.60
1	AA	1268	G	N3-C4-N9	6.07	129.64	126.00
1	AA	1422	G	P-O3'-C3'	-6.07	112.41	119.70
34	BA	19	C	C6-N1-C2	-6.07	117.87	120.30
35	BB	110	G	C6-N1-C2	6.07	128.75	125.10
35	BB	270	A	N1-C6-N6	6.07	122.24	118.60
35	BB	949	G	N9-C4-C5	-6.07	102.97	105.40
35	BB	1392	A	O4'-C4'-C3'	-6.07	97.93	104.00
35	BB	1957	C	C5-C4-N4	-6.07	115.95	120.20
35	BB	2269	G	C5-C6-O6	-6.07	124.96	128.60
35	BB	2286	G	N7-C8-N9	6.07	116.14	113.10
35	BB	2386	A	C5-C6-N6	-6.07	118.84	123.70
35	BB	2801	G	N3-C4-N9	6.07	129.64	126.00
50	BQ	47	ARG	NE-CZ-NH2	6.07	123.34	120.30
1	AA	898	G	N9-C4-C5	-6.07	102.97	105.40
1	AA	1088	G	C1'-O4'-C4'	6.07	114.76	109.90
1	AA	1195	C	O4'-C1'-N1	6.07	113.06	108.20
1	AA	1402	C	O5'-P-OP2	-6.07	100.23	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	125	A	C4-C5-N7	-6.07	107.66	110.70
35	BB	907	G	P-O5'-C5'	6.07	130.62	120.90
35	BB	1133	A	C5-N7-C8	6.07	106.94	103.90
35	BB	1521	G	C5-C6-N1	-6.07	108.46	111.50
35	BB	2144	G	N3-C4-N9	6.07	129.64	126.00
35	BB	2337	G	C1'-O4'-C4'	6.07	114.76	109.90
1	AA	544	G	O4'-C1'-N9	6.07	113.06	108.20
1	AA	688	G	N7-C8-N9	-6.07	110.06	113.10
1	AA	1491	G	C8-N9-C1'	6.07	134.89	127.00
35	BB	18	U	N1-C2-N3	-6.07	111.26	114.90
35	BB	1069	A	N3-C4-N9	6.07	132.26	127.40
35	BB	1133	A	C5-C6-N6	-6.07	118.84	123.70
35	BB	1655	A	N1-C6-N6	6.07	122.24	118.60
43	BJ	52	ASP	N-CA-CB	6.07	121.53	110.60
22	AV	21	A	C5-C6-N6	-6.07	118.84	123.70
22	AV	37	G	C5-N7-C8	6.07	107.33	104.30
34	BA	114	C	C4-C5-C6	-6.07	114.37	117.40
35	BB	1228	G	C2-N3-C4	6.07	114.94	111.90
35	BB	1359	A	N1-C2-N3	6.07	132.33	129.30
35	BB	1668	A	C4-C5-N7	-6.07	107.67	110.70
35	BB	1992	G	N9-C4-C5	6.07	107.83	105.40
35	BB	2692	G	N3-C2-N2	6.07	124.15	119.90
36	BC	246	PRO	N-CA-CB	6.07	110.58	103.30
1	AA	617	G	P-O3'-C3'	-6.07	112.42	119.70
17	AQ	76	ARG	N-CA-CB	6.07	121.52	110.60
22	AV	52	G	O4'-C1'-N9	6.07	113.05	108.20
35	BB	222	A	P-O3'-C3'	-6.07	112.42	119.70
35	BB	447	A	C6-N1-C2	-6.07	114.96	118.60
35	BB	809	G	C2-N3-C4	6.07	114.93	111.90
35	BB	1196	C	N3-C2-O2	6.07	126.15	121.90
35	BB	1413	A	C1'-O4'-C4'	6.07	114.75	109.90
35	BB	1437	C	N3-C4-N4	6.07	122.25	118.00
35	BB	2280	G	N1-C6-O6	6.07	123.54	119.90
35	BB	2335	A	N1-C2-N3	-6.07	126.27	129.30
35	BB	2488	G	C4-N9-C1'	6.07	134.39	126.50
35	BB	2654	A	C2-N3-C4	-6.07	107.57	110.60
1	AA	412	A	C5'-C4'-O4'	6.07	116.38	109.10
1	AA	600	A	O4'-C1'-N9	6.07	113.05	108.20
1	AA	1079	G	P-O3'-C3'	6.07	126.98	119.70
1	AA	1099	G	O4'-C1'-N9	6.07	113.05	108.20
1	AA	1235	U	C5-C6-N1	-6.07	119.67	122.70
35	BB	376	G	C2-N3-C4	6.07	114.93	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	693	A	C5-N7-C8	6.07	106.93	103.90
35	BB	985	C	C4-C5-C6	6.07	120.43	117.40
35	BB	1252	G	C8-N9-C4	-6.07	103.97	106.40
35	BB	1664	A	C4-C5-C6	6.07	120.03	117.00
35	BB	1980	G	N3-C2-N2	6.07	124.15	119.90
35	BB	2803	G	O4'-C1'-N9	6.07	113.05	108.20
22	AV	44	G	O4'-C1'-N9	6.06	113.05	108.20
35	BB	244	A	O4'-C1'-N9	6.06	113.05	108.20
35	BB	698	C	N1-C2-N3	6.06	123.44	119.20
35	BB	954	G	O4'-C4'-C3'	-6.06	97.94	104.00
35	BB	1307	A	N7-C8-N9	-6.06	110.77	113.80
35	BB	1666	G	N1-C6-O6	6.06	123.54	119.90
35	BB	1757	A	N3-C4-N9	6.06	132.25	127.40
35	BB	2207	C	N3-C4-N4	-6.06	113.75	118.00
1	AA	750	C	N3-C4-N4	6.06	122.24	118.00
3	AC	167	TYR	CB-CG-CD2	6.06	124.64	121.00
35	BB	891	G	C1'-O4'-C4'	-6.06	105.05	109.90
35	BB	1187	G	N9-C4-C5	6.06	107.83	105.40
35	BB	1367	A	N7-C8-N9	-6.06	110.77	113.80
35	BB	1710	G	O5'-P-OP2	6.06	117.97	110.70
35	BB	2061	G	C5-C6-N1	-6.06	108.47	111.50
35	BB	2898	U	C5-C4-O4	6.06	129.54	125.90
1	AA	348	G	N3-C4-C5	-6.06	125.57	128.60
1	AA	1266	G	C5-C6-O6	-6.06	124.96	128.60
34	BA	94	A	C5-C6-N1	-6.06	114.67	117.70
35	BB	1991	U	O4'-C1'-N1	6.06	113.05	108.20
1	AA	79	G	C4-C5-C6	6.06	122.44	118.80
1	AA	376	G	C4-C5-N7	6.06	113.22	110.80
1	AA	554	A	C8-N9-C4	-6.06	103.38	105.80
1	AA	1055	A	O4'-C1'-N9	6.06	113.05	108.20
1	AA	1347	G	C8-N9-C1'	6.06	134.88	127.00
1	AA	1429	A	C6-C5-N7	-6.06	128.06	132.30
2	AB	204	ASP	CB-CG-OD2	-6.06	112.85	118.30
22	AV	74	C	C3'-C2'-C1'	-6.06	96.65	101.50
35	BB	451	U	N1-C2-O2	6.06	127.04	122.80
35	BB	858	G	C8-N9-C4	-6.06	103.98	106.40
35	BB	895	U	N1-C2-N3	6.06	118.54	114.90
35	BB	1020	A	C6-C5-N7	-6.06	128.06	132.30
35	BB	1108	U	N3-C2-O2	6.06	126.44	122.20
35	BB	1252	G	C5-C6-O6	-6.06	124.96	128.60
35	BB	2128	G	O4'-C1'-N9	6.06	113.05	108.20
35	BB	2273	A	O4'-C1'-C2'	6.06	113.05	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2288	A	O4'-C1'-N9	6.06	113.05	108.20
35	BB	2412	A	C2-N3-C4	-6.06	107.57	110.60
1	AA	729	A	C4'-C3'-C2'	-6.06	96.54	102.60
1	AA	938	A	C5-C6-N1	-6.06	114.67	117.70
1	AA	972	C	O4'-C1'-N1	6.06	113.05	108.20
1	AA	1000	A	C3'-C2'-C1'	-6.06	96.65	101.50
1	AA	1484	C	C5-C4-N4	6.06	124.44	120.20
35	BB	652	U	C5-C4-O4	-6.06	122.27	125.90
35	BB	770	G	C6-C5-N7	-6.06	126.77	130.40
35	BB	816	C	N3-C4-C5	-6.06	119.48	121.90
35	BB	2857	G	C4-C5-C6	6.06	122.44	118.80
36	BC	62	ARG	N-CA-C	-6.06	94.64	111.00
1	AA	1150	A	C5-C6-N6	-6.06	118.86	123.70
22	AV	1	C	C5-C4-N4	-6.06	115.96	120.20
35	BB	2146	C	C5-C4-N4	6.06	124.44	120.20
41	BH	113	SER	N-CA-CB	6.06	119.58	110.50
1	AA	359	G	N1-C6-O6	6.05	123.53	119.90
1	AA	572	A	N1-C2-N3	6.05	132.33	129.30
1	AA	916	U	C4-C5-C6	-6.05	116.07	119.70
1	AA	1101	A	O4'-C1'-C2'	-6.05	99.75	105.80
34	BA	20	G	C5-C6-O6	-6.05	124.97	128.60
35	BB	345	A	N1-C6-N6	6.05	122.23	118.60
35	BB	960	A	N9-C4-C5	6.05	108.22	105.80
35	BB	1555	G	C6-C5-N7	-6.05	126.77	130.40
35	BB	2015	A	N1-C6-N6	6.05	122.23	118.60
35	BB	2177	C	N3-C2-O2	6.05	126.14	121.90
35	BB	2877	G	N1-C2-N3	-6.05	120.27	123.90
40	BG	2	ARG	NH1-CZ-NH2	-6.05	112.74	119.40
1	AA	37	U	C5-C4-O4	-6.05	122.27	125.90
1	AA	195	A	C6-N1-C2	-6.05	114.97	118.60
1	AA	228	A	N7-C8-N9	6.05	116.83	113.80
1	AA	1519	A	OP1-P-OP2	-6.05	110.52	119.60
35	BB	762	U	N1-C2-O2	-6.05	118.56	122.80
35	BB	1111	A	N9-C4-C5	-6.05	103.38	105.80
35	BB	1839	G	N9-C4-C5	-6.05	102.98	105.40
35	BB	1906	G	C5-C6-O6	-6.05	124.97	128.60
35	BB	2386	A	C2-N3-C4	-6.05	107.57	110.60
35	BB	2410	G	C5-C6-N1	-6.05	108.47	111.50
35	BB	2749	A	C5-C6-N1	-6.05	114.67	117.70
1	AA	65	A	C6-C5-N7	-6.05	128.06	132.30
1	AA	751	U	P-O5'-C5'	6.05	130.58	120.90
1	AA	945	G	N1-C2-N3	-6.05	120.27	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	994	A	C4-C5-N7	-6.05	107.67	110.70
1	AA	1388	C	O4'-C1'-N1	6.05	113.04	108.20
35	BB	164	C	C4-C5-C6	6.05	120.43	117.40
35	BB	241	A	C5-N7-C8	6.05	106.93	103.90
35	BB	448	U	C6-N1-C2	-6.05	117.37	121.00
35	BB	682	G	N3-C4-C5	-6.05	125.57	128.60
35	BB	840	C	C3'-C2'-C1'	-6.05	96.66	101.50
35	BB	1416	G	C3'-C2'-C1'	6.05	106.34	101.50
35	BB	1550	C	C4'-C3'-C2'	-6.05	96.55	102.60
35	BB	1587	G	C1'-O4'-C4'	6.05	114.74	109.90
35	BB	2192	U	N3-C4-O4	6.05	123.64	119.40
35	BB	2221	G	N1-C6-O6	6.05	123.53	119.90
35	BB	2336	A	N7-C8-N9	6.05	116.83	113.80
1	AA	93	U	P-O3'-C3'	-6.05	112.44	119.70
1	AA	591	U	C1'-O4'-C4'	-6.05	105.06	109.90
1	AA	678	U	C2-N3-C4	-6.05	123.37	127.00
1	AA	1399	C	O4'-C1'-N1	6.05	113.04	108.20
35	BB	1119	U	P-O3'-C3'	-6.05	112.44	119.70
35	BB	1171	G	C2-N3-C4	6.05	114.92	111.90
35	BB	1489	C	C2-N1-C1'	6.05	125.45	118.80
35	BB	1797	G	N3-C2-N2	6.05	124.14	119.90
35	BB	2123	G	N1-C2-N2	-6.05	110.75	116.20
35	BB	2210	U	N1-C2-N3	-6.05	111.27	114.90
35	BB	2328	A	O4'-C1'-N9	6.05	113.04	108.20
35	BB	2408	U	O4'-C1'-N1	6.05	113.04	108.20
35	BB	2532	G	N3-C4-N9	-6.05	122.37	126.00
35	BB	2623	G	C8-N9-C4	-6.05	103.98	106.40
35	BB	2781	A	C4-C5-C6	6.05	120.03	117.00
1	AA	860	A	C2-N3-C4	-6.05	107.58	110.60
22	AV	59	A	O4'-C1'-N9	6.05	113.04	108.20
22	AV	75	C	C2-N3-C4	6.05	122.92	119.90
35	BB	1222	U	N3-C4-O4	6.05	123.63	119.40
35	BB	1806	C	C4-C5-C6	6.05	120.42	117.40
1	AA	713	G	N3-C2-N2	6.05	124.13	119.90
35	BB	113	U	N1-C2-O2	-6.05	118.57	122.80
35	BB	138	U	C2-N3-C4	-6.05	123.37	127.00
35	BB	1480	C	C5-C6-N1	-6.05	117.98	121.00
35	BB	1531	C	N3-C4-N4	6.05	122.23	118.00
35	BB	1587	G	C5-C6-O6	-6.05	124.97	128.60
35	BB	1603	A	C5-C6-N1	-6.05	114.68	117.70
35	BB	1704	C	C1'-O4'-C4'	-6.05	105.06	109.90
35	BB	1860	G	C5-C6-N1	-6.05	108.48	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2436	G	O4'-C1'-N9	6.05	113.04	108.20
35	BB	2628	C	N1-C2-N3	-6.05	114.97	119.20
35	BB	2634	A	C5-C6-N6	-6.05	118.86	123.70
1	AA	278	G	N3-C4-N9	6.04	129.63	126.00
34	BA	20	G	N3-C4-N9	-6.04	122.37	126.00
35	BB	6	A	C6-C5-N7	-6.04	128.07	132.30
35	BB	300	A	N1-C2-N3	6.04	132.32	129.30
35	BB	565	C	C4'-C3'-C2'	-6.04	96.56	102.60
35	BB	2314	A	N9-C4-C5	6.04	108.22	105.80
35	BB	2611	C	N3-C4-N4	6.04	122.23	118.00
35	BB	2876	G	C4-N9-C1'	-6.04	118.64	126.50
1	AA	406	G	C5-N7-C8	6.04	107.32	104.30
1	AA	1029	U	C5'-C4'-C3'	6.04	125.67	116.00
1	AA	1056	U	C5-C6-N1	-6.04	119.68	122.70
1	AA	1179	A	N9-C4-C5	6.04	108.22	105.80
34	BA	99	A	C5'-C4'-O4'	-6.04	101.85	109.10
35	BB	80	G	N1-C2-N3	-6.04	120.27	123.90
35	BB	861	A	C2-N3-C4	-6.04	107.58	110.60
35	BB	1557	C	N3-C4-C5	-6.04	119.48	121.90
35	BB	2255	G	C2-N3-C4	6.04	114.92	111.90
47	BN	38	LEU	CB-CG-CD2	6.04	121.28	111.00
1	AA	64	G	C5'-C4'-O4'	6.04	116.35	109.10
1	AA	190	A	C5-C6-N6	-6.04	118.87	123.70
1	AA	547	A	N7-C8-N9	-6.04	110.78	113.80
1	AA	700	G	C3'-C2'-C1'	6.04	106.33	101.50
1	AA	919	A	C5-C6-N6	-6.04	118.87	123.70
1	AA	1105	A	C5-C6-N6	-6.04	118.87	123.70
34	BA	107	G	C5-N7-C8	-6.04	101.28	104.30
35	BB	50	U	C6-N1-C1'	-6.04	112.74	121.20
35	BB	990	A	C5-N7-C8	6.04	106.92	103.90
35	BB	1199	U	N3-C2-O2	6.04	126.43	122.20
35	BB	1407	G	C6-C5-N7	-6.04	126.78	130.40
35	BB	1521	G	C6-N1-C2	6.04	128.72	125.10
35	BB	1701	A	P-O5'-C5'	-6.04	111.23	120.90
35	BB	1880	U	C1'-O4'-C4'	6.04	114.73	109.90
35	BB	1969	A	C8-N9-C4	-6.04	103.38	105.80
35	BB	2081	U	C5-C6-N1	6.04	125.72	122.70
35	BB	2601	C	N3-C4-N4	6.04	122.23	118.00
35	BB	930	G	C6-C5-N7	-6.04	126.78	130.40
35	BB	1011	G	C4-N9-C1'	-6.04	118.65	126.50
35	BB	2513	A	C5-C6-N6	-6.04	118.87	123.70
35	BB	2626	C	N1-C1'-C2'	-6.04	105.36	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BQ	99	VAL	CA-CB-CG1	-6.04	101.84	110.90
1	AA	806	C	C6-N1-C2	6.04	122.72	120.30
35	BB	501	A	C5-C6-N1	-6.04	114.68	117.70
35	BB	1076	C	N1-C2-N3	-6.04	114.97	119.20
35	BB	1869	G	P-O3'-C3'	6.04	126.95	119.70
35	BB	2599	G	C4'-C3'-C2'	-6.04	96.56	102.60
35	BB	2731	G	C5-C6-N1	-6.04	108.48	111.50
35	BB	2900	A	O4'-C1'-N9	6.04	113.03	108.20
34	BA	10	G	N3-C4-C5	6.04	131.62	128.60
35	BB	1037	G	C6-C5-N7	-6.04	126.78	130.40
35	BB	1540	G	C6-C5-N7	-6.04	126.78	130.40
35	BB	2127	G	C5-N7-C8	6.04	107.32	104.30
35	BB	2218	G	C8-N9-C4	6.04	108.81	106.40
35	BB	2341	G	C5-C6-O6	-6.04	124.98	128.60
1	AA	61	G	P-O3'-C3'	-6.04	112.46	119.70
1	AA	553	A	N1-C6-N6	6.04	122.22	118.60
1	AA	929	G	N1-C2-N2	-6.04	110.77	116.20
1	AA	986	U	P-O3'-C3'	-6.04	112.46	119.70
1	AA	1528	U	C5-C6-N1	-6.04	119.68	122.70
35	BB	21	A	O4'-C1'-N9	6.04	113.03	108.20
35	BB	27	G	C6-C5-N7	-6.04	126.78	130.40
35	BB	819	A	C6-N1-C2	-6.04	114.98	118.60
35	BB	851	C	N3-C4-N4	6.04	122.22	118.00
35	BB	1603	A	OP2-P-O3'	6.04	118.48	105.20
35	BB	1997	C	C4-C5-C6	6.04	120.42	117.40
35	BB	2212	A	N3-C4-N9	6.04	132.23	127.40
35	BB	2252	G	N3-C2-N2	-6.04	115.67	119.90
1	AA	86	G	N9-C4-C5	6.03	107.81	105.40
1	AA	567	G	C6-N1-C2	6.03	128.72	125.10
1	AA	954	G	N1-C6-O6	6.03	123.52	119.90
1	AA	1193	G	O4'-C1'-N9	6.03	113.03	108.20
1	AA	1324	A	C8-N9-C4	-6.03	103.39	105.80
1	AA	1387	G	N3-C4-N9	-6.03	122.38	126.00
35	BB	301	G	C8-N9-C1'	6.03	134.84	127.00
35	BB	340	A	C4'-C3'-C2'	-6.03	96.57	102.60
35	BB	472	A	O4'-C1'-N9	6.03	113.03	108.20
35	BB	479	A	O4'-C1'-N9	6.03	113.03	108.20
35	BB	569	U	C5-C6-N1	6.03	125.72	122.70
35	BB	664	G	O5'-P-OP2	-6.03	100.27	105.70
35	BB	728	G	C8-N9-C4	6.03	108.81	106.40
35	BB	914	G	O4'-C1'-C2'	6.03	113.03	107.60
35	BB	1226	A	C5-C6-N1	-6.03	114.68	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1581	G	C2-N3-C4	6.03	114.92	111.90
48	BO	36	TYR	CB-CG-CD1	-6.03	117.38	121.00
1	AA	427	U	N3-C4-C5	-6.03	110.98	114.60
1	AA	537	G	C8-N9-C4	-6.03	103.99	106.40
35	BB	474	G	N9-C1'-C2'	-6.03	105.36	112.00
35	BB	539	G	N1-C2-N3	-6.03	120.28	123.90
35	BB	1494	A	N1-C2-N3	-6.03	126.28	129.30
35	BB	2222	C	N3-C4-C5	-6.03	119.49	121.90
51	BR	21	ARG	NE-CZ-NH2	6.03	123.32	120.30
1	AA	452	A	OP1-P-OP2	-6.03	110.56	119.60
1	AA	538	G	C2-N3-C4	6.03	114.92	111.90
1	AA	573	A	C4-C5-C6	6.03	120.02	117.00
1	AA	728	A	N3-C4-N9	6.03	132.22	127.40
1	AA	734	G	P-O3'-C3'	-6.03	112.46	119.70
1	AA	1297	G	C4-C5-C6	6.03	122.42	118.80
35	BB	111	A	C5-C6-N6	-6.03	118.88	123.70
35	BB	299	A	N3-C4-C5	-6.03	122.58	126.80
35	BB	481	G	N3-C4-C5	6.03	131.62	128.60
35	BB	620	G	C2-N3-C4	6.03	114.92	111.90
35	BB	1050	A	C6-C5-N7	-6.03	128.08	132.30
35	BB	1212	G	P-O3'-C3'	6.03	126.94	119.70
35	BB	1446	C	N3-C4-C5	-6.03	119.49	121.90
35	BB	2132	U	N3-C4-C5	-6.03	110.98	114.60
35	BB	2633	G	C6-C5-N7	-6.03	126.78	130.40
36	BC	12	ARG	NE-CZ-NH1	6.03	123.31	120.30
1	AA	450	G	C6-C5-N7	-6.03	126.78	130.40
1	AA	1074	G	N3-C4-C5	-6.03	125.59	128.60
1	AA	1283	U	C5'-C4'-C3'	-6.03	106.36	116.00
34	BA	29	A	P-O3'-C3'	6.03	126.93	119.70
34	BA	44	G	C3'-C2'-C1'	-6.03	96.68	101.50
35	BB	5	A	N3-C4-C5	-6.03	122.58	126.80
35	BB	71	A	O4'-C1'-N9	6.03	113.02	108.20
35	BB	167	A	C5-N7-C8	6.03	106.91	103.90
35	BB	407	G	C2-N3-C4	6.03	114.91	111.90
35	BB	1262	A	C5-C6-N6	-6.03	118.88	123.70
35	BB	1328	A	N7-C8-N9	-6.03	110.79	113.80
35	BB	1459	G	C5'-C4'-O4'	6.03	116.33	109.10
35	BB	1567	G	C6-N1-C2	-6.03	121.48	125.10
35	BB	2101	A	N1-C2-N3	-6.03	126.29	129.30
35	BB	2598	A	N1-C6-N6	6.03	122.22	118.60
35	BB	2624	G	N1-C2-N3	-6.03	120.28	123.90
35	BB	2846	G	C2-N3-C4	-6.03	108.89	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	113	G	C5-C6-O6	-6.03	124.98	128.60
1	AA	158	G	O4'-C1'-N9	6.03	113.02	108.20
1	AA	454	G	C2-N3-C4	6.03	114.91	111.90
35	BB	159	G	C5-N7-C8	6.03	107.31	104.30
35	BB	856	G	C5'-C4'-O4'	6.03	116.33	109.10
35	BB	2171	A	C3'-C2'-C1'	-6.03	96.68	101.50
35	BB	2307	G	C4-N9-C1'	6.03	134.33	126.50
35	BB	2339	C	C4-C5-C6	6.03	120.41	117.40
35	BB	2444	G	N3-C2-N2	6.03	124.12	119.90
1	AA	384	G	C2-N3-C4	6.02	114.91	111.90
11	AK	92	ARG	CB-CA-C	-6.02	98.35	110.40
35	BB	354	A	N9-C4-C5	6.02	108.21	105.80
35	BB	1566	A	N1-C2-N3	-6.02	126.29	129.30
35	BB	1897	G	N3-C4-C5	6.02	131.61	128.60
35	BB	2304	G	C6-N1-C2	6.02	128.72	125.10
1	AA	402	G	N7-C8-N9	-6.02	110.09	113.10
1	AA	802	A	N9-C4-C5	6.02	108.21	105.80
35	BB	662	G	C5-C6-N1	-6.02	108.49	111.50
35	BB	821	A	C5'-C4'-O4'	6.02	116.33	109.10
35	BB	929	U	C5-C4-O4	-6.02	122.29	125.90
35	BB	1137	G	P-O3'-C3'	-6.02	112.47	119.70
35	BB	1194	A	C5-C6-N1	-6.02	114.69	117.70
35	BB	1959	G	O4'-C1'-N9	6.02	113.02	108.20
35	BB	2409	G	N1-C6-O6	6.02	123.51	119.90
1	AA	203	G	C5-C6-O6	-6.02	124.99	128.60
1	AA	277	C	P-O3'-C3'	-6.02	112.47	119.70
1	AA	904	U	N1-C2-N3	-6.02	111.29	114.90
34	BA	39	A	C5-N7-C8	6.02	106.91	103.90
35	BB	361	G	O4'-C1'-N9	6.02	113.02	108.20
35	BB	2465	C	N3-C4-C5	-6.02	119.49	121.90
35	BB	2751	G	C4-N9-C1'	6.02	134.33	126.50
35	BB	2896	C	O5'-P-OP2	-6.02	100.28	105.70
1	AA	904	U	O4'-C4'-C3'	-6.02	97.98	104.00
4	AD	48	SER	N-CA-CB	6.02	119.53	110.50
35	BB	56	A	C4-C5-C6	6.02	120.01	117.00
35	BB	333	G	C5-C6-N1	-6.02	108.49	111.50
35	BB	561	G	P-O3'-C3'	6.02	126.92	119.70
35	BB	567	U	N3-C4-O4	6.02	123.61	119.40
35	BB	598	U	C5-C6-N1	6.02	125.71	122.70
35	BB	731	C	N3-C4-N4	6.02	122.21	118.00
35	BB	762	U	C4'-C3'-C2'	-6.02	96.58	102.60
35	BB	831	G	C5-N7-C8	6.02	107.31	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1230	A	O4'-C1'-N9	6.02	113.02	108.20
35	BB	1304	A	C8-N9-C4	-6.02	103.39	105.80
35	BB	1327	A	C5-N7-C8	6.02	106.91	103.90
35	BB	1373	A	C5-C6-N1	-6.02	114.69	117.70
35	BB	1750	G	C5-C6-N1	6.02	114.51	111.50
35	BB	2136	G	C8-N9-C4	-6.02	103.99	106.40
35	BB	2261	C	C2-N3-C4	6.02	122.91	119.90
35	BB	2660	A	P-O3'-C3'	6.02	126.92	119.70
46	BM	42	THR	CA-CB-CG2	-6.02	103.97	112.40
52	BS	110	ARG	NE-CZ-NH2	-6.02	117.29	120.30
55	BW	21	ARG	NE-CZ-NH1	-6.02	117.29	120.30
1	AA	313	A	C5-C6-N6	-6.02	118.89	123.70
1	AA	671	G	N3-C2-N2	6.02	124.11	119.90
1	AA	724	G	N3-C2-N2	6.02	124.11	119.90
1	AA	765	G	O4'-C4'-C3'	-6.02	97.98	104.00
1	AA	1053	G	C4-N9-C1'	-6.02	118.68	126.50
1	AA	1399	C	C3'-C2'-C1'	-6.02	96.69	101.50
35	BB	95	A	C8-N9-C4	-6.02	103.39	105.80
35	BB	212	G	O4'-C1'-N9	6.02	113.01	108.20
35	BB	547	A	OP1-P-OP2	-6.02	110.57	119.60
35	BB	618	G	C2-N3-C4	6.02	114.91	111.90
35	BB	621	A	N9-C4-C5	-6.02	103.39	105.80
35	BB	756	A	C5-N7-C8	6.02	106.91	103.90
35	BB	842	U	N1-C2-O2	-6.02	118.59	122.80
35	BB	1397	U	P-O3'-C3'	6.02	126.92	119.70
35	BB	1643	G	C6-N1-C2	6.02	128.71	125.10
35	BB	2109	U	N1-C2-O2	-6.02	118.59	122.80
35	BB	2534	A	C5-C6-N6	-6.02	118.89	123.70
35	BB	2608	G	C6-N1-C2	6.02	128.71	125.10
35	BB	2844	G	N7-C8-N9	6.02	116.11	113.10
1	AA	552	U	N3-C4-O4	6.02	123.61	119.40
35	BB	267	C	C4-C5-C6	6.02	120.41	117.40
35	BB	1021	A	C5-C6-N6	-6.02	118.89	123.70
35	BB	1213	A	C5-C6-N1	-6.02	114.69	117.70
35	BB	2398	U	N1-C2-N3	-6.02	111.29	114.90
1	AA	491	G	N3-C4-N9	6.01	129.61	126.00
1	AA	1207	G	N7-C8-N9	-6.01	110.09	113.10
2	AB	199	ILE	N-CA-C	-6.01	94.76	111.00
34	BA	13	G	C6-C5-N7	-6.01	126.79	130.40
34	BA	25	U	C5-C4-O4	-6.01	122.29	125.90
34	BA	98	G	N1-C2-N3	-6.01	120.29	123.90
35	BB	356	G	C6-C5-N7	-6.01	126.79	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	925	A	C4-C5-C6	6.01	120.01	117.00
35	BB	1872	A	N3-C4-C5	-6.01	122.59	126.80
1	AA	62	U	N1-C2-N3	-6.01	111.29	114.90
1	AA	360	G	C5-N7-C8	6.01	107.31	104.30
35	BB	1513	U	C1'-O4'-C4'	-6.01	105.09	109.90
1	AA	809	G	O4'-C1'-N9	6.01	113.01	108.20
1	AA	1252	A	P-O5'-C5'	6.01	130.52	120.90
1	AA	1279	G	N1-C2-N3	-6.01	120.29	123.90
1	AA	1412	C	N3-C4-N4	6.01	122.21	118.00
35	BB	11	C	N3-C4-C5	-6.01	119.50	121.90
35	BB	1117	C	C5-C4-N4	-6.01	115.99	120.20
35	BB	1471	G	O4'-C1'-N9	6.01	113.01	108.20
35	BB	1772	A	N9-C4-C5	6.01	108.20	105.80
35	BB	2145	C	N1-C2-O2	6.01	122.51	118.90
35	BB	2155	U	N1-C2-N3	6.01	118.51	114.90
1	AA	78	A	C6-C5-N7	-6.01	128.09	132.30
1	AA	383	A	P-O5'-C5'	-6.01	111.28	120.90
1	AA	766	A	C5-N7-C8	6.01	106.90	103.90
1	AA	851	G	N9-C4-C5	-6.01	103.00	105.40
1	AA	1034	G	N1-C6-O6	6.01	123.50	119.90
1	AA	1120	C	N3-C4-N4	6.01	122.21	118.00
1	AA	1302	C	N3-C4-C5	-6.01	119.50	121.90
10	AJ	98	VAL	CG1-CB-CG2	-6.01	101.29	110.90
35	BB	125	A	C2-N3-C4	-6.01	107.59	110.60
35	BB	195	A	N7-C8-N9	-6.01	110.80	113.80
35	BB	669	G	N3-C4-N9	-6.01	122.39	126.00
35	BB	730	A	C1'-O4'-C4'	6.01	114.71	109.90
35	BB	786	C	O4'-C1'-N1	6.01	113.01	108.20
35	BB	1228	G	O4'-C1'-N9	6.01	113.01	108.20
35	BB	1979	U	N3-C4-O4	6.01	123.61	119.40
38	BE	158	PHE	CB-CG-CD1	6.01	125.01	120.80
1	AA	187	G	N1-C2-N3	-6.01	120.30	123.90
1	AA	233	C	N3-C4-C5	-6.01	119.50	121.90
1	AA	353	A	C4-C5-C6	6.01	120.00	117.00
1	AA	518	C	C5-C4-N4	-6.01	115.99	120.20
35	BB	209	C	C2-N1-C1'	6.01	125.41	118.80
35	BB	874	G	C8-N9-C4	-6.01	104.00	106.40
35	BB	1579	A	N9-C4-C5	-6.01	103.40	105.80
35	BB	2136	G	C5'-C4'-C3'	-6.01	106.39	116.00
35	BB	2426	A	C4-C5-N7	-6.01	107.70	110.70
35	BB	2666	C	C5-C6-N1	6.01	124.00	121.00
35	BB	2770	G	C6-N1-C2	-6.01	121.50	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	897	C	N3-C2-O2	6.01	126.10	121.90
1	AA	966	G	O4'-C1'-N9	6.01	113.00	108.20
1	AA	1435	G	C8-N9-C4	-6.01	104.00	106.40
1	AA	1487	G	C4-N9-C1'	-6.01	118.69	126.50
34	BA	76	G	C5'-C4'-O4'	6.01	116.31	109.10
35	BB	201	C	N3-C4-N4	6.01	122.20	118.00
35	BB	782	A	C3'-C2'-C1'	-6.01	96.69	101.50
35	BB	1234	U	C5-C6-N1	6.01	125.70	122.70
35	BB	2669	G	O4'-C1'-N9	6.01	113.01	108.20
35	BB	2740	A	P-O5'-C5'	-6.01	111.29	120.90
35	BB	2742	G	C5-C6-N1	-6.01	108.50	111.50
35	BB	2781	A	C8-N9-C4	-6.01	103.40	105.80
35	BB	2870	C	N1-C2-O2	-6.01	115.30	118.90
1	AA	266	G	C3'-C2'-C1'	6.00	106.30	101.50
1	AA	303	A	C4-C5-N7	6.00	113.70	110.70
1	AA	408	A	C4-C5-C6	6.00	120.00	117.00
35	BB	678	C	O4'-C4'-C3'	-6.00	98.00	104.00
35	BB	922	C	N3-C4-C5	6.00	124.30	121.90
35	BB	1678	A	C3'-C2'-C1'	6.00	106.30	101.50
35	BB	1686	C	C6-N1-C2	6.00	122.70	120.30
35	BB	2422	C	C5-C6-N1	6.00	124.00	121.00
1	AA	250	A	C4-C5-C6	6.00	120.00	117.00
1	AA	863	U	O4'-C1'-N1	6.00	113.00	108.20
1	AA	1181	G	P-O3'-C3'	6.00	126.90	119.70
13	AM	21	ILE	C-N-CA	6.00	136.71	121.70
35	BB	554	U	N3-C4-C5	-6.00	111.00	114.60
35	BB	594	U	C2-N3-C4	6.00	130.60	127.00
35	BB	933	A	C2-N3-C4	-6.00	107.60	110.60
35	BB	1698	A	P-O3'-C3'	-6.00	112.50	119.70
35	BB	1811	G	O4'-C4'-C3'	-6.00	98.00	104.00
35	BB	2221	G	N3-C4-C5	-6.00	125.60	128.60
35	BB	2689	U	C1'-O4'-C4'	6.00	114.70	109.90
34	BA	50	A	N9-C4-C5	6.00	108.20	105.80
35	BB	34	U	C4-C5-C6	6.00	123.30	119.70
35	BB	250	G	N3-C4-N9	6.00	129.60	126.00
35	BB	534	U	C5-C6-N1	6.00	125.70	122.70
35	BB	1653	G	C5'-C4'-O4'	6.00	116.30	109.10
35	BB	1962	C	C5-C6-N1	6.00	124.00	121.00
1	AA	430	A	C4-C5-N7	-6.00	107.70	110.70
1	AA	864	A	C2-N3-C4	-6.00	107.60	110.60
1	AA	932	C	C5'-C4'-C3'	-6.00	106.40	116.00
35	BB	282	A	C4-C5-N7	-6.00	107.70	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1102	C	N3-C2-O2	6.00	126.10	121.90
35	BB	1527	G	C4-C5-C6	6.00	122.40	118.80
1	AA	74	A	C4-C5-N7	-6.00	107.70	110.70
1	AA	833	G	N3-C4-C5	-6.00	125.60	128.60
1	AA	846	G	C2-N3-C4	6.00	114.90	111.90
1	AA	849	G	P-O3'-C3'	6.00	126.90	119.70
1	AA	1353	G	C4-C5-N7	-6.00	108.40	110.80
1	AA	1424	U	N1-C2-N3	6.00	118.50	114.90
8	AH	26	MET	N-CA-CB	6.00	121.40	110.60
30	B5	102	ASP	CB-CG-OD1	6.00	123.70	118.30
31	B6	39	ARG	NE-CZ-NH2	-6.00	117.30	120.30
35	BB	1025	G	C8-N9-C4	6.00	108.80	106.40
35	BB	1275	A	C4-C5-C6	6.00	120.00	117.00
35	BB	1619	G	N1-C2-N2	-6.00	110.80	116.20
35	BB	1770	G	N9-C4-C5	6.00	107.80	105.40
35	BB	1828	G	C5-N7-C8	6.00	107.30	104.30
46	BM	82	MET	CG-SD-CE	-6.00	90.60	100.20
54	BU	94	PHE	CB-CG-CD2	6.00	125.00	120.80
1	AA	190	A	C6-C5-N7	-6.00	128.10	132.30
1	AA	914	A	C5-C6-N6	-6.00	118.90	123.70
1	AA	1316	G	C5-N7-C8	6.00	107.30	104.30
1	AA	1467	C	N3-C4-N4	6.00	122.20	118.00
29	B4	5	ARG	NE-CZ-NH1	6.00	123.30	120.30
35	BB	262	A	C4-C5-C6	6.00	120.00	117.00
35	BB	512	G	N1-C2-N2	-6.00	110.80	116.20
35	BB	771	G	C4-N9-C1'	-6.00	118.70	126.50
35	BB	863	A	C5-N7-C8	6.00	106.90	103.90
35	BB	1027	A	N7-C8-N9	6.00	116.80	113.80
35	BB	2087	G	C5-C6-N1	-6.00	108.50	111.50
35	BB	2089	C	C3'-C2'-C1'	-6.00	96.70	101.50
54	BU	92	VAL	N-CA-C	-6.00	94.81	111.00
1	AA	835	U	C4'-C3'-C2'	-6.00	96.61	102.60
1	AA	1153	G	C6-C5-N7	-6.00	126.80	130.40
35	BB	1803	A	C2-N3-C4	6.00	113.60	110.60
35	BB	1981	A	C5'-C4'-C3'	-6.00	106.41	116.00
35	BB	2095	A	C2-N3-C4	-6.00	107.60	110.60
35	BB	2179	C	OP1-P-OP2	-6.00	110.61	119.60
45	BL	95	LEU	CB-CG-CD1	-6.00	100.81	111.00
1	AA	359	G	C4-C5-N7	5.99	113.20	110.80
1	AA	506	G	C5-C6-N1	5.99	114.50	111.50
1	AA	608	A	OP2-P-O3'	5.99	118.39	105.20
1	AA	1061	G	C2-N3-C4	5.99	114.90	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1397	C	C2-N1-C1'	5.99	125.39	118.80
1	AA	1479	C	C6-N1-C2	-5.99	117.90	120.30
34	BA	110	C	N1-C2-O2	-5.99	115.30	118.90
35	BB	253	C	O4'-C1'-N1	5.99	113.00	108.20
35	BB	405	U	C6-N1-C1'	-5.99	112.81	121.20
35	BB	911	A	C5-C6-N1	-5.99	114.70	117.70
35	BB	1969	A	N9-C4-C5	5.99	108.20	105.80
35	BB	2640	G	C5-C6-O6	-5.99	125.00	128.60
35	BB	2853	C	C5-C4-N4	-5.99	116.00	120.20
1	AA	95	C	C2-N1-C1'	5.99	125.39	118.80
34	BA	109	A	C4-C5-N7	5.99	113.70	110.70
35	BB	271	G	C2'-C3'-O3'	5.99	123.29	113.70
35	BB	1040	A	C8-N9-C4	5.99	108.20	105.80
35	BB	1817	G	P-O3'-C3'	5.99	126.89	119.70
35	BB	2067	G	C6-N1-C2	5.99	128.69	125.10
1	AA	399	G	C6-C5-N7	-5.99	126.81	130.40
1	AA	1398	A	O4'-C1'-N9	5.99	112.99	108.20
1	AA	1470	U	N1-C2-O2	-5.99	118.61	122.80
35	BB	372	G	C1'-O4'-C4'	-5.99	105.11	109.90
35	BB	485	C	C4'-C3'-C2'	-5.99	96.61	102.60
35	BB	797	G	C5'-C4'-O4'	5.99	116.29	109.10
35	BB	1343	G	P-O5'-C5'	-5.99	111.31	120.90
35	BB	1545	A	N9-C4-C5	5.99	108.20	105.80
35	BB	2382	G	C3'-C2'-C1'	5.99	106.29	101.50
35	BB	2512	C	C5-C6-N1	-5.99	118.00	121.00
35	BB	2566	A	C6-C5-N7	-5.99	128.11	132.30
1	AA	223	A	N1-C2-N3	5.99	132.29	129.30
1	AA	1218	C	C5'-C4'-C3'	5.99	125.58	116.00
1	AA	1275	A	P-O3'-C3'	-5.99	112.52	119.70
22	AV	76	A	C1'-O4'-C4'	5.99	114.69	109.90
35	BB	271	G	N9-C4-C5	-5.99	103.00	105.40
35	BB	492	A	C5'-C4'-O4'	-5.99	101.91	109.10
35	BB	748	G	P-O3'-C3'	-5.99	112.51	119.70
35	BB	945	A	N3-C4-N9	5.99	132.19	127.40
35	BB	1386	C	C4'-C3'-C2'	-5.99	96.61	102.60
35	BB	2027	G	C5-N7-C8	-5.99	101.31	104.30
35	BB	2477	U	C4-C5-C6	5.99	123.29	119.70
35	BB	2544	G	C4-C5-N7	5.99	113.20	110.80
53	BT	3	ARG	NE-CZ-NH1	-5.99	117.31	120.30
1	AA	119	A	N9-C4-C5	5.99	108.19	105.80
1	AA	1246	A	N3-C4-C5	-5.99	122.61	126.80
35	BB	1185	G	C5-C6-O6	-5.99	125.01	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1890	A	C4-C5-C6	5.99	119.99	117.00
35	BB	2124	G	OP1-P-OP2	-5.99	110.62	119.60
1	AA	831	A	C5-C6-N6	-5.99	118.91	123.70
1	AA	1026	G	C6-C5-N7	-5.99	126.81	130.40
1	AA	1096	C	P-O5'-C5'	5.99	130.48	120.90
1	AA	1212	U	C2-N1-C1'	5.99	124.88	117.70
1	AA	1511	G	C8-N9-C4	5.99	108.80	106.40
31	B6	21	ARG	CD-NE-CZ	-5.99	115.22	123.60
35	BB	101	A	C5-C6-N1	-5.99	114.71	117.70
35	BB	249	C	C5'-C4'-O4'	5.99	116.28	109.10
35	BB	758	C	N3-C4-N4	5.99	122.19	118.00
35	BB	1080	A	P-O5'-C5'	-5.99	111.32	120.90
35	BB	1091	G	C2-N3-C4	5.99	114.89	111.90
35	BB	1334	G	C2-N3-C4	5.99	114.89	111.90
35	BB	1803	A	N9-C4-C5	5.99	108.19	105.80
35	BB	1941	C	N3-C4-N4	5.99	122.19	118.00
35	BB	2001	C	C5-C6-N1	5.99	123.99	121.00
35	BB	2559	C	C6-N1-C2	-5.99	117.91	120.30
35	BB	2620	C	N3-C2-O2	5.99	126.09	121.90
35	BB	2760	C	N1-C2-O2	5.99	122.49	118.90
35	BB	2803	G	C4-N9-C1'	-5.99	118.72	126.50
37	BD	69	ALA	CB-CA-C	-5.99	101.12	110.10
35	BB	45	G	N1-C2-N3	-5.98	120.31	123.90
35	BB	66	C	C6-N1-C2	-5.98	117.91	120.30
35	BB	1479	G	N3-C2-N2	5.98	124.09	119.90
35	BB	2616	C	N1-C2-O2	5.98	122.49	118.90
35	BB	2733	A	N9-C1'-C2'	-5.98	105.42	112.00
39	BF	31	GLU	OE1-CD-OE2	5.98	130.48	123.30
1	AA	543	U	C6-N1-C2	-5.98	117.41	121.00
1	AA	609	A	O4'-C4'-C3'	-5.98	98.02	104.00
1	AA	653	U	C5'-C4'-O4'	5.98	116.28	109.10
1	AA	675	A	C5'-C4'-C3'	5.98	125.57	116.00
1	AA	682	G	P-O3'-C3'	-5.98	112.52	119.70
1	AA	1008	U	N3-C4-O4	5.98	123.59	119.40
1	AA	1512	U	C3'-C2'-C1'	-5.98	96.72	101.50
34	BA	69	G	N3-C4-C5	5.98	131.59	128.60
35	BB	128	C	C5-C4-N4	-5.98	116.01	120.20
35	BB	384	A	C4-C5-C6	5.98	119.99	117.00
35	BB	511	U	O4'-C1'-N1	5.98	112.99	108.20
35	BB	725	G	C5-C6-O6	-5.98	125.01	128.60
35	BB	1053	C	C6-N1-C2	-5.98	117.91	120.30
35	BB	1163	G	C2-N3-C4	5.98	114.89	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1295	C	N3-C4-C5	-5.98	119.51	121.90
35	BB	1792	G	OP1-P-OP2	-5.98	110.63	119.60
1	AA	308	C	N3-C4-N4	5.98	122.19	118.00
1	AA	318	G	C4-N9-C1'	-5.98	118.73	126.50
1	AA	501	C	N3-C4-C5	-5.98	119.51	121.90
1	AA	1202	U	N3-C2-O2	-5.98	118.01	122.20
1	AA	1248	A	C5-C6-N1	-5.98	114.71	117.70
1	AA	1250	A	C5-C6-N6	-5.98	118.92	123.70
1	AA	1398	A	N7-C8-N9	-5.98	110.81	113.80
1	AA	1526	G	C6-C5-N7	-5.98	126.81	130.40
34	BA	62	C	C3'-C2'-C1'	5.98	106.28	101.50
34	BA	94	A	O4'-C4'-C3'	-5.98	98.02	104.00
35	BB	614	A	C5-C6-N6	-5.98	118.92	123.70
35	BB	629	G	C8-N9-C1'	5.98	134.77	127.00
35	BB	836	G	N1-C2-N3	-5.98	120.31	123.90
35	BB	937	C	C4'-C3'-C2'	-5.98	96.62	102.60
35	BB	1200	C	C5-C4-N4	-5.98	116.01	120.20
35	BB	1384	A	C5-C6-N1	-5.98	114.71	117.70
35	BB	1448	G	N3-C2-N2	5.98	124.09	119.90
35	BB	1695	G	C8-N9-C1'	-5.98	119.22	127.00
35	BB	1698	A	C4-C5-C6	5.98	119.99	117.00
35	BB	2271	G	C5-C6-O6	-5.98	125.01	128.60
35	BB	2767	C	C5-C6-N1	-5.98	118.01	121.00
1	AA	51	A	N3-C4-N9	5.98	132.18	127.40
1	AA	253	A	C6-C5-N7	-5.98	128.11	132.30
1	AA	453	G	O4'-C1'-N9	5.98	112.98	108.20
1	AA	857	C	N3-C4-N4	5.98	122.19	118.00
35	BB	1372	U	C2-N3-C4	5.98	130.59	127.00
35	BB	2154	A	N1-C2-N3	5.98	132.29	129.30
35	BB	2162	G	P-O3'-C3'	-5.98	112.53	119.70
35	BB	2733	A	C6-C5-N7	-5.98	128.11	132.30
49	BP	73	PHE	CB-CG-CD2	-5.98	116.61	120.80
1	AA	21	G	C1'-O4'-C4'	-5.98	105.12	109.90
1	AA	88	U	N1-C2-N3	-5.98	111.31	114.90
1	AA	716	A	O4'-C1'-N9	5.98	112.98	108.20
1	AA	834	U	C3'-C2'-C1'	-5.98	96.72	101.50
35	BB	238	C	N3-C2-O2	5.98	126.08	121.90
35	BB	374	A	C4-C5-C6	5.98	119.99	117.00
35	BB	456	C	N3-C4-N4	5.98	122.18	118.00
35	BB	718	A	N7-C8-N9	-5.98	110.81	113.80
35	BB	1112	G	C1'-O4'-C4'	5.98	114.68	109.90
35	BB	1144	A	N3-C4-N9	5.98	132.18	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1199	U	O4'-C1'-N1	5.98	112.98	108.20
35	BB	1360	G	N3-C4-N9	-5.98	122.41	126.00
35	BB	1714	U	N3-C4-O4	5.98	123.58	119.40
35	BB	2035	G	C6-N1-C2	5.98	128.69	125.10
35	BB	2166	U	C3'-C2'-C1'	-5.98	96.72	101.50
35	BB	2167	U	C6-N1-C2	-5.98	117.41	121.00
35	BB	2544	G	C5-C6-O6	-5.98	125.01	128.60
1	AA	1329	A	N7-C8-N9	-5.98	110.81	113.80
35	BB	2488	G	C5-C6-N1	-5.98	108.51	111.50
35	BB	2720	U	O4'-C4'-C3'	-5.98	98.02	104.00
1	AA	616	G	N1-C2-N2	5.97	121.58	116.20
1	AA	624	C	O4'-C1'-N1	5.97	112.98	108.20
1	AA	855	U	O4'-C1'-N1	5.97	112.98	108.20
35	BB	207	A	C6-C5-N7	-5.97	128.12	132.30
35	BB	298	G	N3-C2-N2	5.97	124.08	119.90
35	BB	528	A	N7-C8-N9	-5.97	110.81	113.80
35	BB	1221	C	C4-C5-C6	-5.97	114.41	117.40
35	BB	1456	G	N1-C2-N2	-5.97	110.82	116.20
35	BB	1505	A	C2-N3-C4	5.97	113.59	110.60
35	BB	1904	G	O4'-C1'-N9	5.97	112.98	108.20
35	BB	2107	G	OP2-P-O3'	5.97	118.34	105.20
35	BB	2116	G	C5-C6-N1	-5.97	108.51	111.50
35	BB	2393	U	C5-C4-O4	-5.97	122.31	125.90
47	BN	63	ARG	NE-CZ-NH2	5.97	123.29	120.30
1	AA	349	A	N9-C4-C5	5.97	108.19	105.80
1	AA	394	G	N1-C2-N3	-5.97	120.32	123.90
1	AA	945	G	N3-C2-N2	5.97	124.08	119.90
1	AA	1139	G	N3-C2-N2	5.97	124.08	119.90
1	AA	1142	G	C5'-C4'-C3'	5.97	125.56	116.00
1	AA	1239	A	C6-N1-C2	5.97	122.18	118.60
1	AA	1366	C	N1-C2-O2	-5.97	115.32	118.90
1	AA	1369	C	N1-C2-N3	-5.97	115.02	119.20
35	BB	81	G	C4-C5-N7	5.97	113.19	110.80
35	BB	86	G	N1-C2-N2	-5.97	110.82	116.20
35	BB	1098	A	C4-C5-C6	5.97	119.99	117.00
35	BB	2181	U	N1-C2-O2	-5.97	118.62	122.80
35	BB	2224	G	N3-C2-N2	5.97	124.08	119.90
1	AA	338	A	N7-C8-N9	-5.97	110.81	113.80
1	AA	1188	A	C6-C5-N7	-5.97	128.12	132.30
35	BB	1206	G	N3-C4-N9	-5.97	122.42	126.00
1	AA	9	G	C2-N3-C4	5.97	114.89	111.90
1	AA	1252	A	C6-C5-N7	-5.97	128.12	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1472	U	C5'-C4'-C3'	-5.97	106.45	116.00
35	BB	1296	G	O4'-C1'-N9	5.97	112.98	108.20
35	BB	1611	C	N3-C4-C5	-5.97	119.51	121.90
35	BB	1892	C	C5-C4-N4	-5.97	116.02	120.20
35	BB	1927	A	C5-N7-C8	-5.97	100.92	103.90
35	BB	1964	G	C8-N9-C4	-5.97	104.01	106.40
35	BB	2591	C	N3-C4-C5	-5.97	119.51	121.90
35	BB	2686	G	C4-C5-C6	-5.97	115.22	118.80
41	BH	123	ARG	NE-CZ-NH1	-5.97	117.32	120.30
52	BS	98	LYS	N-CA-CB	5.97	121.34	110.60
1	AA	1458	G	O5'-P-OP1	5.97	117.86	110.70
35	BB	91	A	N1-C2-N3	-5.97	126.32	129.30
35	BB	1221	C	C6-N1-C1'	-5.97	113.64	120.80
35	BB	1246	A	C5-C6-N6	-5.97	118.92	123.70
35	BB	2849	U	N3-C4-C5	-5.97	111.02	114.60
1	AA	7	A	C2-N3-C4	-5.97	107.62	110.60
1	AA	26	A	C4-C5-C6	5.97	119.98	117.00
1	AA	705	G	C5-C6-O6	-5.97	125.02	128.60
1	AA	1074	G	N1-C2-N2	-5.97	110.83	116.20
34	BA	15	A	C5-C6-N6	-5.97	118.93	123.70
35	BB	144	A	C3'-C2'-C1'	-5.97	96.73	101.50
35	BB	1369	G	O4'-C4'-C3'	-5.97	98.03	104.00
35	BB	1524	G	C6-C5-N7	-5.97	126.82	130.40
35	BB	1721	G	N3-C4-C5	-5.97	125.62	128.60
35	BB	1921	G	C5-C6-N1	-5.97	108.52	111.50
1	AA	329	A	C6-C5-N7	-5.96	128.12	132.30
1	AA	329	A	N3-C4-N9	5.96	132.17	127.40
35	BB	567	U	C2-N3-C4	5.96	130.58	127.00
35	BB	1358	G	C4-C5-N7	5.96	113.19	110.80
35	BB	1545	A	C4-C5-C6	5.96	119.98	117.00
35	BB	2091	C	C6-N1-C2	5.96	122.69	120.30
35	BB	2121	G	C5-C6-N1	-5.96	108.52	111.50
35	BB	2480	C	N1-C2-O2	-5.96	115.32	118.90
41	BH	93	SER	N-CA-CB	5.96	119.45	110.50
51	BR	2	TYR	CA-CB-CG	-5.96	102.07	113.40
1	AA	868	C	C4'-C3'-C2'	-5.96	96.64	102.60
35	BB	659	G	C6-C5-N7	-5.96	126.82	130.40
35	BB	1302	A	N1-C2-N3	5.96	132.28	129.30
35	BB	1439	A	C2-N3-C4	-5.96	107.62	110.60
35	BB	1684	G	N7-C8-N9	5.96	116.08	113.10
35	BB	2482	A	O4'-C1'-N9	5.96	112.97	108.20
51	BR	2	TYR	CB-CG-CD2	-5.96	117.42	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	431	A	C5-C6-N1	-5.96	114.72	117.70
1	AA	1006	G	N1-C2-N2	-5.96	110.83	116.20
22	AV	70	C	C5-C4-N4	-5.96	116.03	120.20
35	BB	188	G	O4'-C1'-N9	5.96	112.97	108.20
35	BB	614	A	C2-N3-C4	-5.96	107.62	110.60
35	BB	819	A	O4'-C1'-N9	5.96	112.97	108.20
35	BB	926	G	O5'-P-OP2	-5.96	100.33	105.70
35	BB	1745	A	C2-N3-C4	-5.96	107.62	110.60
35	BB	1917	U	O4'-C4'-C3'	-5.96	98.04	104.00
35	BB	2752	C	O4'-C1'-N1	5.96	112.97	108.20
1	AA	640	A	C2'-C3'-O3'	5.96	123.24	113.70
35	BB	488	G	C5-C6-N1	-5.96	108.52	111.50
35	BB	743	A	C5-C6-N1	-5.96	114.72	117.70
35	BB	788	A	N7-C8-N9	-5.96	110.82	113.80
35	BB	1386	C	N1-C2-N3	-5.96	115.03	119.20
35	BB	2413	G	C8-N9-C4	5.96	108.78	106.40
35	BB	2641	G	N7-C8-N9	-5.96	110.12	113.10
36	BC	237	ARG	N-CA-CB	5.96	121.33	110.60
1	AA	9	G	C4'-C3'-C2'	-5.96	96.64	102.60
1	AA	667	G	C6-C5-N7	-5.96	126.82	130.40
34	BA	41	G	C6-C5-N7	-5.96	126.82	130.40
35	BB	169	G	N1-C6-O6	5.96	123.47	119.90
35	BB	301	G	N3-C2-N2	5.96	124.07	119.90
35	BB	1081	U	O4'-C1'-N1	5.96	112.97	108.20
35	BB	1470	A	C6-C5-N7	-5.96	128.13	132.30
35	BB	1926	U	N1-C2-N3	-5.96	111.33	114.90
35	BB	1999	C	N1-C2-N3	-5.96	115.03	119.20
49	BP	97	TYR	CB-CG-CD1	-5.96	117.42	121.00
1	AA	22	G	C5-C6-O6	-5.96	125.03	128.60
1	AA	474	G	C5-C6-N1	-5.96	108.52	111.50
1	AA	474	G	N3-C2-N2	5.96	124.07	119.90
1	AA	495	A	N3-C4-N9	5.96	132.17	127.40
1	AA	1035	A	C6-C5-N7	-5.96	128.13	132.30
1	AA	1096	C	OP1-P-OP2	-5.96	110.67	119.60
1	AA	1294	G	P-O3'-C3'	-5.96	112.55	119.70
1	AA	1338	G	N3-C4-N9	-5.96	122.43	126.00
2	AB	122	ASP	N-CA-CB	5.96	121.32	110.60
35	BB	105	C	O4'-C1'-N1	5.96	112.97	108.20
35	BB	463	G	C2-N3-C4	5.96	114.88	111.90
35	BB	530	G	C2-N3-C4	5.96	114.88	111.90
35	BB	910	A	C8-N9-C4	-5.96	103.42	105.80
35	BB	1337	G	N3-C2-N2	5.96	124.07	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1802	A	N3-C4-C5	-5.96	122.63	126.80
35	BB	2245	U	O3'-P-O5'	-5.96	92.68	104.00
35	BB	2322	A	C5-C6-N1	-5.96	114.72	117.70
35	BB	2436	G	C2-N3-C4	-5.96	108.92	111.90
35	BB	2634	A	C6-C5-N7	-5.96	128.13	132.30
1	AA	158	G	C5-C6-N1	-5.96	108.52	111.50
1	AA	248	C	N1-C2-O2	-5.96	115.33	118.90
1	AA	488	C	C1'-O4'-C4'	5.96	114.66	109.90
1	AA	1059	C	N3-C4-C5	5.96	124.28	121.90
1	AA	1082	A	N7-C8-N9	5.96	116.78	113.80
35	BB	210	C	C5-C6-N1	5.96	123.98	121.00
35	BB	1479	G	C4-C5-C6	5.96	122.37	118.80
47	BN	96	ARG	NE-CZ-NH1	5.96	123.28	120.30
1	AA	315	A	C4-C5-C6	5.95	119.98	117.00
35	BB	406	G	N3-C2-N2	5.95	124.07	119.90
35	BB	1134	A	C1'-O4'-C4'	5.95	114.66	109.90
35	BB	1457	U	N3-C4-C5	5.95	118.17	114.60
35	BB	2225	A	N3-C4-C5	-5.95	122.63	126.80
35	BB	2352	A	C6-C5-N7	-5.95	128.13	132.30
35	BB	2813	A	C5-C6-N6	-5.95	118.94	123.70
1	AA	270	A	N3-C4-C5	-5.95	122.63	126.80
1	AA	1144	G	C4-C5-N7	-5.95	108.42	110.80
34	BA	44	G	OP1-P-O3'	5.95	118.29	105.20
35	BB	760	G	OP1-P-OP2	-5.95	110.67	119.60
35	BB	1234	U	O4'-C1'-N1	5.95	112.96	108.20
35	BB	2861	U	N3-C4-O4	5.95	123.57	119.40
1	AA	1068	G	P-O5'-C5'	-5.95	111.38	120.90
1	AA	1385	G	C4-C5-N7	-5.95	108.42	110.80
1	AA	1393	U	C3'-C2'-C1'	5.95	106.26	101.50
21	AU	33	ARG	NE-CZ-NH1	5.95	123.28	120.30
34	BA	56	G	C6-C5-N7	-5.95	126.83	130.40
35	BB	17	G	N7-C8-N9	-5.95	110.12	113.10
35	BB	140	C	C6-N1-C2	-5.95	117.92	120.30
35	BB	736	C	C5-C4-N4	-5.95	116.03	120.20
35	BB	831	G	C4-C5-C6	5.95	122.37	118.80
35	BB	1458	U	N1-C2-N3	-5.95	111.33	114.90
35	BB	2619	C	C5-C4-N4	-5.95	116.03	120.20
35	BB	2724	U	N3-C4-O4	5.95	123.56	119.40
1	AA	539	A	C5-N7-C8	5.95	106.87	103.90
1	AA	543	U	N3-C4-O4	5.95	123.56	119.40
1	AA	717	U	N1-C2-N3	-5.95	111.33	114.90
1	AA	1036	A	C5-C6-N1	-5.95	114.73	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1244	G	C6-C5-N7	-5.95	126.83	130.40
1	AA	1475	G	C4-C5-C6	5.95	122.37	118.80
1	AA	1501	C	N3-C4-N4	5.95	122.16	118.00
35	BB	76	C	C5-C6-N1	5.95	123.97	121.00
35	BB	173	A	C4-C5-N7	-5.95	107.73	110.70
35	BB	890	C	C6-N1-C2	-5.95	117.92	120.30
35	BB	1321	A	C4-C5-C6	5.95	119.97	117.00
35	BB	1594	U	N3-C4-O4	5.95	123.56	119.40
35	BB	1601	G	C6-N1-C2	-5.95	121.53	125.10
35	BB	1690	A	C8-N9-C4	-5.95	103.42	105.80
35	BB	1866	A	N1-C6-N6	5.95	122.17	118.60
35	BB	2380	C	C2-N3-C4	-5.95	116.93	119.90
35	BB	2756	U	N3-C4-O4	5.95	123.56	119.40
35	BB	2829	A	O4'-C1'-N9	5.95	112.96	108.20
1	AA	311	C	C5-C6-N1	5.95	123.97	121.00
1	AA	403	C	C5-C4-N4	-5.95	116.04	120.20
1	AA	1449	C	C2-N3-C4	5.95	122.87	119.90
1	AA	524	G	C4-C5-N7	5.95	113.18	110.80
1	AA	647	C	N3-C4-C5	-5.95	119.52	121.90
1	AA	778	G	P-O5'-C5'	5.95	130.41	120.90
1	AA	788	U	C5-C6-N1	5.95	125.67	122.70
1	AA	1230	C	N1-C2-O2	5.95	122.47	118.90
1	AA	1447	A	C5-C6-N6	-5.95	118.94	123.70
8	AH	112	ASP	CB-CG-OD1	5.95	123.65	118.30
9	AI	44	ARG	NE-CZ-NH2	-5.95	117.33	120.30
29	B4	42	VAL	C-N-CA	5.95	136.56	121.70
35	BB	98	G	N9-C4-C5	5.95	107.78	105.40
35	BB	296	U	C6-N1-C2	-5.95	117.43	121.00
35	BB	1021	A	P-O5'-C5'	-5.95	111.39	120.90
35	BB	1343	G	C5-C6-N1	-5.95	108.53	111.50
35	BB	2052	A	N7-C8-N9	-5.95	110.83	113.80
35	BB	2630	G	N1-C2-N3	-5.95	120.33	123.90
35	BB	2727	A	P-O5'-C5'	-5.95	111.39	120.90
1	AA	69	G	C2-N3-C4	-5.94	108.93	111.90
1	AA	123	U	P-O3'-C3'	5.94	126.83	119.70
1	AA	1197	A	N7-C8-N9	-5.94	110.83	113.80
34	BA	70	C	N1-C2-N3	-5.94	115.04	119.20
34	BA	109	A	C5-C6-N1	-5.94	114.73	117.70
35	BB	269	C	C5-C6-N1	5.94	123.97	121.00
35	BB	2329	U	N3-C2-O2	-5.94	118.04	122.20
35	BB	2411	A	N7-C8-N9	-5.94	110.83	113.80
35	BB	2572	A	C5-N7-C8	5.94	106.87	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	416	G	C4-C5-N7	-5.94	108.42	110.80
1	AA	695	A	C5-C6-N6	-5.94	118.95	123.70
1	AA	751	U	N3-C4-O4	5.94	123.56	119.40
1	AA	846	G	C5-N7-C8	5.94	107.27	104.30
1	AA	1423	G	N1-C6-O6	5.94	123.47	119.90
22	AV	51	A	C5-C6-N6	-5.94	118.94	123.70
35	BB	199	A	N1-C2-N3	5.94	132.27	129.30
35	BB	454	A	P-O3'-C3'	5.94	126.83	119.70
35	BB	1038	G	N1-C6-O6	5.94	123.47	119.90
35	BB	1411	U	C5-C4-O4	5.94	129.47	125.90
36	BC	189	ALA	CB-CA-C	-5.94	101.19	110.10
1	AA	462	G	C1'-O4'-C4'	5.94	114.65	109.90
1	AA	561	U	P-O3'-C3'	5.94	126.83	119.70
1	AA	605	U	N3-C4-C5	-5.94	111.04	114.60
1	AA	1488	G	N9-C4-C5	5.94	107.78	105.40
35	BB	106	C	C3'-C2'-C1'	-5.94	96.75	101.50
35	BB	406	G	C8-N9-C1'	5.94	134.72	127.00
35	BB	1081	U	C1'-O4'-C4'	5.94	114.65	109.90
35	BB	1290	C	N3-C2-O2	-5.94	117.74	121.90
35	BB	1484	U	O4'-C1'-N1	5.94	112.95	108.20
35	BB	2209	G	N9-C4-C5	5.94	107.78	105.40
35	BB	2589	A	N9-C1'-C2'	-5.94	105.47	112.00
35	BB	2745	C	C6-N1-C2	5.94	122.68	120.30
1	AA	378	G	C8-N9-C4	-5.94	104.02	106.40
1	AA	896	C	C5-C6-N1	5.94	123.97	121.00
1	AA	1294	G	C4'-C3'-C2'	-5.94	96.66	102.60
4	AD	62	ARG	NE-CZ-NH2	5.94	123.27	120.30
34	BA	105	G	N3-C2-N2	5.94	124.06	119.90
35	BB	1351	C	C1'-O4'-C4'	-5.94	105.15	109.90
35	BB	1383	A	C5-C6-N6	-5.94	118.95	123.70
35	BB	1481	U	C6-N1-C2	-5.94	117.44	121.00
35	BB	1914	C	O4'-C1'-N1	5.94	112.95	108.20
35	BB	2680	U	O4'-C1'-N1	5.94	112.95	108.20
38	BE	162	ARG	NE-CZ-NH1	-5.94	117.33	120.30
1	AA	291	U	O4'-C1'-N1	5.94	112.95	108.20
1	AA	1016	A	P-O3'-C3'	-5.94	112.57	119.70
1	AA	1200	C	O4'-C1'-C2'	5.94	112.94	107.60
35	BB	1257	C	N1-C2-N3	-5.94	115.04	119.20
35	BB	1314	C	C2-N3-C4	-5.94	116.93	119.90
35	BB	2895	G	C5'-C4'-C3'	-5.94	106.50	116.00
1	AA	1074	G	N3-C4-N9	5.94	129.56	126.00
35	BB	756	A	C4-C5-N7	-5.94	107.73	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	762	U	N1-C1'-C2'	-5.94	105.47	112.00
35	BB	869	G	P-O5'-C5'	5.94	130.40	120.90
35	BB	929	U	C5-C6-N1	5.94	125.67	122.70
35	BB	1182	G	N3-C2-N2	5.94	124.06	119.90
35	BB	1525	A	C4-C5-C6	5.94	119.97	117.00
35	BB	1810	A	C4-C5-C6	5.94	119.97	117.00
35	BB	2284	A	O4'-C1'-N9	5.94	112.95	108.20
35	BB	2634	A	C1'-O4'-C4'	5.94	114.65	109.90
35	BB	2882	A	N1-C2-N3	5.94	132.27	129.30
1	AA	342	C	N3-C2-O2	5.93	126.05	121.90
1	AA	548	G	N3-C2-N2	5.93	124.05	119.90
1	AA	936	C	N3-C4-N4	5.93	122.15	118.00
29	B4	48	TYR	CB-CG-CD2	-5.93	117.44	121.00
35	BB	85	G	C4-C5-C6	5.93	122.36	118.80
35	BB	676	A	C8-N9-C4	5.93	108.17	105.80
35	BB	767	U	N3-C2-O2	5.93	126.35	122.20
35	BB	1453	A	N1-C6-N6	5.93	122.16	118.60
35	BB	1517	G	C5-N7-C8	5.93	107.27	104.30
35	BB	1721	G	N1-C2-N3	-5.93	120.34	123.90
35	BB	1939	U	N3-C4-C5	-5.93	111.04	114.60
35	BB	2709	G	C1'-O4'-C4'	5.93	114.65	109.90
35	BB	2760	C	O4'-C1'-N1	5.93	112.95	108.20
35	BB	2828	G	O4'-C1'-N9	5.93	112.95	108.20
35	BB	2897	U	N1-C1'-C2'	-5.93	105.47	112.00
1	AA	161	A	N1-C2-N3	5.93	132.27	129.30
1	AA	625	U	O4'-C1'-N1	5.93	112.95	108.20
1	AA	765	G	C4-C5-C6	5.93	122.36	118.80
1	AA	1096	C	C5-C4-N4	-5.93	116.05	120.20
1	AA	1187	G	N1-C6-O6	5.93	123.46	119.90
1	AA	1354	U	O4'-C1'-N1	5.93	112.95	108.20
1	AA	1361	G	C5-C6-N1	5.93	114.47	111.50
35	BB	1095	A	C5-C6-N6	-5.93	118.95	123.70
35	BB	1275	A	N1-C6-N6	5.93	122.16	118.60
35	BB	1302	A	O5'-C5'-C4'	5.93	122.97	111.70
35	BB	1891	G	C4-C5-N7	-5.93	108.43	110.80
35	BB	2062	A	C4-C5-N7	5.93	113.67	110.70
35	BB	2461	A	O4'-C1'-C2'	-5.93	99.87	105.80
35	BB	2712	C	C4-C5-C6	5.93	120.37	117.40
35	BB	2770	G	C8-N9-C4	5.93	108.77	106.40
1	AA	210	C	C5'-C4'-O4'	5.93	116.22	109.10
35	BB	915	C	N3-C4-N4	5.93	122.15	118.00
35	BB	919	U	O4'-C1'-N1	5.93	112.94	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1154	G	O4'-C1'-N9	5.93	112.94	108.20
35	BB	2010	G	C6-C5-N7	-5.93	126.84	130.40
1	AA	289	G	N1-C6-O6	-5.93	116.34	119.90
1	AA	292	G	N1-C6-O6	5.93	123.46	119.90
1	AA	1108	G	C5-C6-O6	-5.93	125.04	128.60
1	AA	1300	G	N3-C4-C5	5.93	131.56	128.60
1	AA	1430	A	C8-N9-C4	5.93	108.17	105.80
22	AV	51	A	C4-C5-C6	5.93	119.96	117.00
35	BB	26	G	P-O3'-C3'	5.93	126.82	119.70
35	BB	491	G	N3-C4-C5	-5.93	125.64	128.60
35	BB	563	A	C6-N1-C2	5.93	122.16	118.60
35	BB	891	G	C6-N1-C2	5.93	128.66	125.10
35	BB	2120	G	N9-C4-C5	-5.93	103.03	105.40
35	BB	2151	U	P-O3'-C3'	-5.93	112.58	119.70
35	BB	2576	G	N1-C2-N3	-5.93	120.34	123.90
35	BB	2752	C	C5-C4-N4	5.93	124.35	120.20
35	BB	2867	G	C4-C5-N7	5.93	113.17	110.80
1	AA	262	A	C6-C5-N7	-5.93	128.15	132.30
1	AA	295	C	C1'-O4'-C4'	-5.93	105.16	109.90
18	AR	71	ASP	CB-CA-C	-5.93	98.54	110.40
35	BB	942	G	N1-C2-N3	-5.93	120.34	123.90
35	BB	1017	G	C5-C6-N1	-5.93	108.54	111.50
35	BB	2859	G	C3'-C2'-C1'	-5.93	96.76	101.50
35	BB	187	G	N1-C6-O6	5.93	123.46	119.90
35	BB	539	G	O4'-C4'-C3'	-5.93	98.07	104.00
35	BB	1381	G	C4'-C3'-C2'	-5.93	96.67	102.60
35	BB	1398	C	C5-C4-N4	-5.93	116.05	120.20
35	BB	1888	G	C4-C5-C6	5.93	122.36	118.80
35	BB	2175	C	N1-C2-O2	5.93	122.46	118.90
35	BB	2288	A	C5-C6-N1	-5.93	114.74	117.70
35	BB	2383	G	C4-C5-N7	-5.93	108.43	110.80
35	BB	2436	G	C8-N9-C4	5.93	108.77	106.40
35	BB	2634	A	C5-N7-C8	5.93	106.86	103.90
35	BB	2796	U	N1-C2-O2	-5.93	118.65	122.80
36	BC	65	ASP	CB-CG-OD2	-5.93	112.97	118.30
47	BN	80	PHE	N-CA-CB	5.93	121.27	110.60
1	AA	184	G	N9-C4-C5	-5.92	103.03	105.40
1	AA	631	C	N3-C4-C5	5.92	124.27	121.90
1	AA	1135	U	C2-N3-C4	-5.92	123.45	127.00
4	AD	67	LEU	CB-CG-CD2	5.92	121.07	111.00
35	BB	238	C	C2-N3-C4	5.92	122.86	119.90
35	BB	307	G	N3-C4-C5	-5.92	125.64	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	868	U	O4'-C1'-N1	5.92	112.94	108.20
35	BB	1253	A	C5-C6-N1	-5.92	114.74	117.70
35	BB	1308	A	C8-N9-C4	-5.92	103.43	105.80
35	BB	1864	U	N3-C4-O4	-5.92	115.25	119.40
35	BB	2442	C	C5-C4-N4	-5.92	116.05	120.20
35	BB	2578	G	O4'-C1'-N9	5.92	112.94	108.20
35	BB	2830	C	C2-N3-C4	5.92	122.86	119.90
35	BB	2879	A	N7-C8-N9	-5.92	110.84	113.80
1	AA	866	C	C6-N1-C2	-5.92	117.93	120.30
1	AA	985	C	C5-C6-N1	-5.92	118.04	121.00
1	AA	1215	G	P-O3'-C3'	-5.92	112.59	119.70
1	AA	1229	A	C5-C6-N1	-5.92	114.74	117.70
20	AT	73	ARG	CD-NE-CZ	5.92	131.89	123.60
35	BB	395	U	P-O5'-C5'	5.92	130.38	120.90
35	BB	1471	G	N1-C6-O6	5.92	123.45	119.90
35	BB	1493	C	N1-C1'-C2'	-5.92	105.48	112.00
35	BB	2093	G	N1-C2-N3	-5.92	120.35	123.90
1	AA	297	G	C5-C6-N1	5.92	114.46	111.50
1	AA	619	U	C1'-O4'-C4'	-5.92	105.16	109.90
1	AA	736	C	N1-C2-O2	5.92	122.45	118.90
1	AA	952	U	C5'-C4'-C3'	5.92	125.47	116.00
1	AA	1458	G	N9-C4-C5	-5.92	103.03	105.40
35	BB	77	G	C6-C5-N7	-5.92	126.85	130.40
35	BB	526	A	C2-N3-C4	-5.92	107.64	110.60
35	BB	1268	A	C5-C6-N1	-5.92	114.74	117.70
35	BB	1308	A	N9-C4-C5	5.92	108.17	105.80
35	BB	1521	G	C5-C6-O6	-5.92	125.05	128.60
35	BB	1659	G	O4'-C1'-N9	5.92	112.94	108.20
35	BB	2075	U	C5-C6-N1	5.92	125.66	122.70
35	BB	2549	G	C5'-C4'-C3'	-5.92	106.53	116.00
1	AA	729	A	N7-C8-N9	5.92	116.76	113.80
1	AA	1143	G	O4'-C1'-N9	5.92	112.94	108.20
1	AA	1262	C	C6-N1-C2	5.92	122.67	120.30
35	BB	69	C	C5'-C4'-O4'	-5.92	102.00	109.10
35	BB	947	A	C5-N7-C8	5.92	106.86	103.90
35	BB	1580	A	C6-N1-C2	5.92	122.15	118.60
50	BQ	99	VAL	CG1-CB-CG2	5.92	120.37	110.90
1	AA	170	U	C3'-C2'-C1'	-5.92	96.77	101.50
1	AA	233	C	N3-C4-N4	5.92	122.14	118.00
1	AA	297	G	O4'-C1'-N9	5.92	112.93	108.20
1	AA	396	C	P-O3'-C3'	-5.92	112.60	119.70
1	AA	1175	G	C4'-C3'-C2'	-5.92	96.68	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1408	A	C4-C5-C6	5.92	119.96	117.00
1	AA	1515	G	C5-C6-O6	-5.92	125.05	128.60
35	BB	2127	G	P-O3'-C3'	5.92	126.80	119.70
35	BB	2266	A	C6-C5-N7	-5.92	128.16	132.30
1	AA	617	G	N9-C4-C5	-5.92	103.03	105.40
1	AA	989	U	N3-C4-O4	5.92	123.54	119.40
1	AA	1092	A	N3-C4-C5	-5.92	122.66	126.80
2	AB	90	PHE	CB-CG-CD1	-5.92	116.66	120.80
35	BB	165	A	O4'-C1'-N9	5.92	112.93	108.20
35	BB	1132	U	C4-C5-C6	5.92	123.25	119.70
35	BB	1441	G	C8-N9-C1'	5.92	134.69	127.00
35	BB	1809	A	C5-C6-N6	-5.92	118.97	123.70
35	BB	1925	C	C4-C5-C6	5.92	120.36	117.40
35	BB	2413	G	C5-C6-N1	-5.92	108.54	111.50
35	BB	2534	A	C5'-C4'-O4'	5.92	116.20	109.10
36	BC	216	ARG	NE-CZ-NH2	-5.92	117.34	120.30
37	BD	127	PHE	CG-CD1-CE1	5.92	127.31	120.80
35	BB	985	C	N1-C2-O2	-5.92	115.35	118.90
35	BB	1664	A	C8-N9-C1'	-5.92	117.05	127.70
35	BB	1730	C	O3'-P-O5'	-5.92	92.76	104.00
35	BB	1904	G	C5-N7-C8	5.92	107.26	104.30
35	BB	2143	C	O4'-C1'-N1	5.92	112.93	108.20
35	BB	2426	A	C8-N9-C4	-5.92	103.43	105.80
35	BB	2447	G	C5-C6-N1	5.92	114.46	111.50
1	AA	292	G	N1-C2-N2	-5.91	110.88	116.20
1	AA	497	G	O4'-C1'-N9	5.91	112.93	108.20
1	AA	559	A	N1-C2-N3	-5.91	126.34	129.30
1	AA	563	A	C5-C6-N6	-5.91	118.97	123.70
1	AA	1145	A	C4-C5-N7	-5.91	107.74	110.70
5	AE	137	ARG	N-CA-CB	5.91	121.24	110.60
17	AQ	80	LYS	N-CA-CB	5.91	121.24	110.60
19	AS	33	TRP	CD2-CE3-CZ3	-5.91	111.11	118.80
35	BB	618	G	C5-C6-O6	-5.91	125.05	128.60
35	BB	1001	A	C6-C5-N7	-5.91	128.16	132.30
35	BB	1330	C	C5-C6-N1	5.91	123.96	121.00
35	BB	1730	C	C6-N1-C1'	-5.91	113.70	120.80
35	BB	1760	C	P-O5'-C5'	-5.91	111.44	120.90
35	BB	1849	G	N1-C2-N3	-5.91	120.35	123.90
35	BB	1912	A	C5'-C4'-O4'	-5.91	102.00	109.10
35	BB	2282	G	C4'-C3'-C2'	5.91	108.51	102.60
1	AA	257	G	C2-N3-C4	-5.91	108.94	111.90
1	AA	1088	G	N9-C4-C5	-5.91	103.03	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	AT	9	ARG	NE-CZ-NH1	5.91	123.26	120.30
32	B7	19	GLY	O-C-N	-5.91	113.15	123.20
35	BB	338	G	C4-C5-N7	5.91	113.17	110.80
35	BB	368	A	N9-C4-C5	5.91	108.17	105.80
35	BB	2355	G	N9-C4-C5	-5.91	103.03	105.40
35	BB	2688	G	C2-N3-C4	-5.91	108.94	111.90
43	BJ	48	VAL	N-CA-C	-5.91	95.04	111.00
1	AA	354	G	C6-C5-N7	-5.91	126.85	130.40
1	AA	442	G	C5-C6-O6	-5.91	125.05	128.60
1	AA	567	G	O4'-C1'-N9	5.91	112.93	108.20
1	AA	715	A	C5-C6-N6	-5.91	118.97	123.70
1	AA	1216	A	N7-C8-N9	-5.91	110.84	113.80
1	AA	1301	U	C4-C5-C6	-5.91	116.15	119.70
17	AQ	27	PHE	CB-CG-CD2	5.91	124.94	120.80
22	AV	68	U	C6-N1-C2	-5.91	117.45	121.00
35	BB	75	G	C2-N3-C4	5.91	114.86	111.90
35	BB	347	A	C6-C5-N7	-5.91	128.16	132.30
35	BB	483	A	C5-C6-N6	-5.91	118.97	123.70
1	AA	152	A	C4'-C3'-C2'	-5.91	96.69	102.60
1	AA	943	U	N1-C1'-C2'	-5.91	105.50	112.00
1	AA	1079	G	N1-C2-N3	-5.91	120.36	123.90
1	AA	1437	A	O4'-C1'-C2'	-5.91	99.89	105.80
2	AB	138	ARG	NH1-CZ-NH2	5.91	125.90	119.40
22	AV	49	G	O4'-C1'-N9	5.91	112.93	108.20
35	BB	141	G	C2-N3-C4	-5.91	108.95	111.90
35	BB	199	A	O5'-P-OP2	-5.91	100.38	105.70
35	BB	268	C	C5-C6-N1	5.91	123.95	121.00
35	BB	1366	A	C5-N7-C8	5.91	106.85	103.90
35	BB	2152	G	C5-C6-N1	-5.91	108.55	111.50
35	BB	2464	G	P-O3'-C3'	-5.91	112.61	119.70
1	AA	829	G	C2-N3-C4	5.91	114.85	111.90
1	AA	1003	G	C8-N9-C1'	5.91	134.68	127.00
35	BB	274	C	C4-C5-C6	5.91	120.35	117.40
35	BB	1104	C	C3'-C2'-C1'	5.91	106.22	101.50
1	AA	211	G	C8-N9-C1'	-5.91	119.32	127.00
1	AA	889	A	O4'-C1'-N9	5.91	112.92	108.20
1	AA	1246	A	C4-C5-N7	-5.91	107.75	110.70
31	B6	21	ARG	NE-CZ-NH2	5.91	123.25	120.30
34	BA	87	U	C3'-C2'-C1'	5.91	106.22	101.50
35	BB	686	U	N1-C2-O2	5.91	126.93	122.80
35	BB	844	A	N1-C2-N3	5.91	132.25	129.30
35	BB	1324	G	C5'-C4'-C3'	-5.91	106.55	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1522	A	C6-N1-C2	5.91	122.14	118.60
35	BB	1731	G	O4'-C1'-N9	5.91	112.92	108.20
35	BB	2101	A	C5-N7-C8	5.91	106.85	103.90
35	BB	2518	A	P-O5'-C5'	-5.91	111.45	120.90
36	BC	120	ASP	CB-CG-OD2	5.91	123.61	118.30
50	BQ	56	PHE	CB-CG-CD1	-5.91	116.67	120.80
56	BY	31	LEU	N-CA-C	-5.91	95.06	111.00
1	AA	169	C	C4'-C3'-C2'	-5.90	96.70	102.60
1	AA	614	C	O4'-C1'-N1	5.90	112.92	108.20
35	BB	967	U	O4'-C1'-N1	5.90	112.92	108.20
35	BB	1860	G	N9-C1'-C2'	-5.90	105.51	112.00
1	AA	29	U	C1'-O4'-C4'	5.90	114.62	109.90
1	AA	426	U	P-O5'-C5'	5.90	130.34	120.90
1	AA	1169	A	O5'-P-OP2	-5.90	100.39	105.70
1	AA	1301	U	N3-C4-O4	-5.90	115.27	119.40
35	BB	450	G	N3-C2-N2	5.90	124.03	119.90
35	BB	763	G	C5-N7-C8	5.90	107.25	104.30
35	BB	920	A	C5-C6-N6	-5.90	118.98	123.70
35	BB	997	G	N1-C6-O6	-5.90	116.36	119.90
35	BB	1659	G	P-O3'-C3'	-5.90	112.62	119.70
35	BB	2738	A	C4-C5-N7	5.90	113.65	110.70
35	BB	2835	A	O4'-C1'-C2'	-5.90	99.90	105.80
35	BB	2843	G	C6-C5-N7	-5.90	126.86	130.40
1	AA	705	G	O4'-C1'-N9	5.90	112.92	108.20
1	AA	849	G	C4-C5-C6	5.90	122.34	118.80
35	BB	23	G	N3-C4-N9	5.90	129.54	126.00
35	BB	203	A	C8-N9-C4	-5.90	103.44	105.80
35	BB	244	A	C4-C5-C6	5.90	119.95	117.00
35	BB	968	C	P-O3'-C3'	-5.90	112.62	119.70
35	BB	1136	G	P-O3'-C3'	-5.90	112.62	119.70
35	BB	1253	A	OP1-P-OP2	-5.90	110.75	119.60
35	BB	1605	C	N3-C4-N4	5.90	122.13	118.00
35	BB	2069	G	C6-C5-N7	-5.90	126.86	130.40
35	BB	2655	G	N1-C2-N3	-5.90	120.36	123.90
35	BB	2868	A	C8-N9-C4	5.90	108.16	105.80
36	BC	134	ILE	CA-CB-CG1	5.90	122.21	111.00
45	BL	89	VAL	CA-CB-CG1	-5.90	102.05	110.90
1	AA	507	C	N1-C2-O2	5.90	122.44	118.90
1	AA	873	A	N3-C4-C5	-5.90	122.67	126.80
1	AA	1134	G	N3-C4-N9	5.90	129.54	126.00
35	BB	870	U	N1-C2-O2	5.90	126.93	122.80
35	BB	2864	G	N3-C4-N9	-5.90	122.46	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2891	U	N3-C2-O2	5.90	126.33	122.20
1	AA	490	C	C4-C5-C6	5.90	120.35	117.40
1	AA	934	C	C4-C5-C6	5.90	120.35	117.40
1	AA	987	G	C4'-C3'-C2'	-5.90	96.70	102.60
1	AA	1314	C	O4'-C4'-C3'	5.90	110.82	106.10
35	BB	358	U	C5-C4-O4	-5.90	122.36	125.90
35	BB	510	C	C5-C4-N4	-5.90	116.07	120.20
35	BB	1005	C	N1-C2-O2	-5.90	115.36	118.90
35	BB	1194	A	C5'-C4'-C3'	-5.90	106.56	116.00
35	BB	1587	G	N3-C2-N2	5.90	124.03	119.90
35	BB	1791	A	N9-C1'-C2'	-5.90	105.51	112.00
35	BB	1834	U	C1'-O4'-C4'	5.90	114.62	109.90
35	BB	2205	A	C6-C5-N7	-5.90	128.17	132.30
35	BB	2265	U	P-O3'-C3'	5.90	126.78	119.70
35	BB	2267	A	C3'-C2'-C1'	-5.90	96.78	101.50
35	BB	2297	A	OP2-P-O3'	5.90	118.17	105.20
35	BB	2401	U	N1-C2-O2	5.90	126.93	122.80
35	BB	2424	C	P-O3'-C3'	-5.90	112.62	119.70
47	BN	9	GLN	N-CA-CB	5.90	121.22	110.60
34	BA	15	A	C5'-C4'-O4'	5.90	116.18	109.10
35	BB	690	G	C8-N9-C4	-5.90	104.04	106.40
35	BB	968	C	N3-C4-C5	-5.90	119.54	121.90
35	BB	1777	U	C5-C6-N1	-5.90	119.75	122.70
35	BB	1929	G	C5-C6-O6	-5.90	125.06	128.60
35	BB	2030	A	C6-C5-N7	-5.90	128.17	132.30
35	BB	2599	G	N1-C2-N2	-5.90	110.89	116.20
1	AA	547	A	C5-C6-N6	-5.89	118.98	123.70
1	AA	560	A	O4'-C1'-C2'	5.89	112.91	107.60
1	AA	878	A	C6-N1-C2	-5.89	115.06	118.60
35	BB	103	A	N3-C4-C5	-5.89	122.67	126.80
35	BB	218	A	C3'-C2'-C1'	5.89	106.22	101.50
35	BB	246	C	N1-C2-N3	-5.89	115.07	119.20
35	BB	294	A	C5-C6-N6	-5.89	118.98	123.70
35	BB	825	A	C2-N3-C4	5.89	113.55	110.60
35	BB	1190	G	C2-N3-C4	5.89	114.85	111.90
35	BB	1271	G	N3-C2-N2	5.89	124.03	119.90
35	BB	1667	G	P-O5'-C5'	5.89	130.33	120.90
35	BB	1734	G	C6-C5-N7	-5.89	126.86	130.40
35	BB	1743	G	N3-C2-N2	5.89	124.03	119.90
39	BF	114	ARG	NH1-CZ-NH2	5.89	125.88	119.40
1	AA	108	G	C6-N1-C2	-5.89	121.56	125.10
1	AA	113	G	O4'-C1'-N9	5.89	112.91	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	648	A	O4'-C1'-N9	5.89	112.91	108.20
1	AA	1272	G	C6-C5-N7	-5.89	126.86	130.40
7	AG	143	MET	CG-SD-CE	-5.89	90.77	100.20
25	B0	67	LEU	CB-CG-CD2	5.89	121.02	111.00
34	BA	71	C	N3-C2-O2	-5.89	117.78	121.90
35	BB	207	A	N1-C2-N3	-5.89	126.35	129.30
35	BB	504	A	C2-N3-C4	-5.89	107.65	110.60
35	BB	642	U	N1-C2-O2	-5.89	118.68	122.80
35	BB	1036	G	O4'-C1'-N9	5.89	112.92	108.20
35	BB	2049	G	P-O3'-C3'	-5.89	112.63	119.70
35	BB	2741	A	C5-N7-C8	5.89	106.85	103.90
35	BB	2878	U	P-O5'-C5'	5.89	130.33	120.90
1	AA	408	A	C8-N9-C4	-5.89	103.44	105.80
1	AA	1492	A	C2-N3-C4	5.89	113.55	110.60
35	BB	151	C	N3-C4-N4	5.89	122.12	118.00
1	AA	1391	U	O5'-C5'-C4'	-5.89	100.51	111.70
1	AA	1505	G	C2-N3-C4	5.89	114.84	111.90
35	BB	321	U	N3-C4-C5	-5.89	111.07	114.60
35	BB	337	C	C2-N3-C4	5.89	122.84	119.90
35	BB	644	A	N9-C4-C5	-5.89	103.44	105.80
35	BB	969	G	N3-C2-N2	5.89	124.02	119.90
35	BB	1354	A	C4'-C3'-C2'	-5.89	96.71	102.60
35	BB	1374	G	N1-C2-N2	-5.89	110.90	116.20
35	BB	2164	C	C2-N3-C4	5.89	122.84	119.90
35	BB	2573	C	O4'-C4'-C3'	-5.89	98.11	104.00
35	BB	2602	A	C1'-O4'-C4'	-5.89	105.19	109.90
35	BB	2867	G	N9-C4-C5	-5.89	103.04	105.40
35	BB	2898	U	C5'-C4'-C3'	-5.89	106.58	116.00
1	AA	112	G	C8-N9-C4	-5.89	104.05	106.40
1	AA	217	C	N1-C2-O2	5.89	122.43	118.90
1	AA	448	A	C2-N3-C4	-5.89	107.66	110.60
1	AA	919	A	C3'-C2'-C1'	5.89	106.21	101.50
1	AA	1021	A	C4-C5-N7	-5.89	107.76	110.70
1	AA	1353	G	C4-C5-C6	5.89	122.33	118.80
1	AA	1364	U	N3-C4-O4	5.89	123.52	119.40
35	BB	924	G	C4-C5-N7	5.89	113.16	110.80
35	BB	1156	A	N1-C2-N3	5.89	132.24	129.30
35	BB	1410	G	N3-C4-C5	5.89	131.54	128.60
35	BB	1463	C	P-O3'-C3'	-5.89	112.63	119.70
1	AA	622	A	P-O5'-C5'	-5.89	111.48	120.90
1	AA	697	U	C5-C4-O4	5.89	129.43	125.90
1	AA	790	A	C8-N9-C4	5.89	108.16	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	844	G	O4'-C1'-N9	5.89	112.91	108.20
1	AA	1021	A	C8-N9-C4	-5.89	103.44	105.80
1	AA	1428	A	N1-C2-N3	5.89	132.24	129.30
2	AB	139	GLU	OE1-CD-OE2	5.89	130.36	123.30
34	BA	78	A	N7-C8-N9	-5.89	110.86	113.80
35	BB	344	A	C6-C5-N7	-5.89	128.18	132.30
35	BB	384	A	N1-C2-N3	-5.89	126.36	129.30
35	BB	472	A	C5-C6-N6	-5.89	118.99	123.70
35	BB	771	G	N3-C4-C5	-5.89	125.66	128.60
35	BB	1542	U	N1-C2-O2	-5.89	118.68	122.80
35	BB	1667	G	C5'-C4'-O4'	5.89	116.16	109.10
35	BB	1852	U	C6-N1-C1'	-5.89	112.96	121.20
35	BB	1888	G	N1-C2-N2	-5.89	110.90	116.20
35	BB	1999	C	C4-C5-C6	5.89	120.34	117.40
35	BB	2232	C	C4-C5-C6	-5.89	114.46	117.40
1	AA	297	G	C6-N1-C2	-5.88	121.57	125.10
1	AA	648	A	N1-C2-N3	5.88	132.24	129.30
1	AA	1131	G	C2-N3-C4	5.88	114.84	111.90
35	BB	68	G	P-O3'-C3'	5.88	126.76	119.70
35	BB	1263	U	O4'-C1'-N1	5.88	112.91	108.20
35	BB	1729	U	C6-N1-C1'	-5.88	112.96	121.20
35	BB	1981	A	O4'-C1'-N9	5.88	112.91	108.20
35	BB	1992	G	O5'-P-OP1	-5.88	100.41	105.70
35	BB	2054	A	C4-C5-C6	5.88	119.94	117.00
35	BB	2759	G	N3-C4-C5	5.88	131.54	128.60
35	BB	2894	G	N3-C4-C5	-5.88	125.66	128.60
1	AA	553	A	N9-C4-C5	5.88	108.15	105.80
1	AA	566	G	N1-C2-N3	-5.88	120.37	123.90
1	AA	700	G	C8-N9-C4	5.88	108.75	106.40
35	BB	1650	A	C4-C5-N7	-5.88	107.76	110.70
35	BB	1730	C	C2'-C3'-O3'	5.88	123.11	113.70
35	BB	1966	A	N1-C6-N6	5.88	122.13	118.60
35	BB	2459	A	N7-C8-N9	5.88	116.74	113.80
1	AA	1243	C	P-O3'-C3'	-5.88	112.64	119.70
1	AA	1432	G	C5-N7-C8	-5.88	101.36	104.30
35	BB	380	G	N3-C4-N9	-5.88	122.47	126.00
35	BB	607	U	N1-C2-O2	-5.88	118.68	122.80
35	BB	745	G	C4-C5-C6	5.88	122.33	118.80
35	BB	1379	U	N3-C4-O4	5.88	123.52	119.40
35	BB	1524	G	C4-C5-C6	5.88	122.33	118.80
1	AA	521	G	N3-C4-N9	-5.88	122.47	126.00
1	AA	637	C	O4'-C1'-N1	5.88	112.90	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1513	A	C8-N9-C4	5.88	108.15	105.80
35	BB	249	C	P-O5'-C5'	-5.88	111.49	120.90
35	BB	1106	G	N3-C4-N9	-5.88	122.47	126.00
1	AA	296	U	C2-N3-C4	-5.88	123.47	127.00
1	AA	753	A	C6-C5-N7	-5.88	128.19	132.30
1	AA	873	A	P-O3'-C3'	-5.88	112.64	119.70
1	AA	1026	G	O5'-P-OP1	5.88	117.75	110.70
1	AA	1181	G	N3-C2-N2	5.88	124.02	119.90
34	BA	50	A	C4-C5-N7	-5.88	107.76	110.70
35	BB	416	U	C5-C4-O4	-5.88	122.37	125.90
35	BB	825	A	N9-C4-C5	5.88	108.15	105.80
35	BB	1761	C	O4'-C1'-N1	5.88	112.90	108.20
35	BB	2240	U	C5-C4-O4	5.88	129.43	125.90
35	BB	2264	C	C1'-O4'-C4'	-5.88	105.20	109.90
35	BB	2638	G	C6-N1-C2	-5.88	121.57	125.10
43	BJ	53	TYR	CZ-CE2-CD2	5.88	125.09	119.80
1	AA	253	A	C5-C6-N6	-5.88	119.00	123.70
1	AA	877	G	C5-N7-C8	-5.88	101.36	104.30
9	AI	114	LYS	CA-CB-CG	5.88	126.33	113.40
35	BB	820	A	C5-C6-N1	-5.88	114.76	117.70
35	BB	913	U	N1-C2-N3	-5.88	111.37	114.90
35	BB	928	A	C4-C5-N7	-5.88	107.76	110.70
35	BB	940	G	C8-N9-C4	-5.88	104.05	106.40
35	BB	997	G	C4-N9-C1'	-5.88	118.86	126.50
35	BB	1135	C	C6-N1-C1'	-5.88	113.75	120.80
35	BB	1566	A	N3-C4-C5	5.88	130.91	126.80
35	BB	2589	A	C6-C5-N7	-5.88	128.19	132.30
35	BB	2820	A	N1-C6-N6	5.88	122.13	118.60
1	AA	972	C	C5-C4-N4	-5.88	116.09	120.20
35	BB	32	C	C2-N3-C4	5.88	122.84	119.90
35	BB	207	A	C5-C6-N1	-5.88	114.76	117.70
35	BB	2642	G	O4'-C1'-N9	5.88	112.90	108.20
35	BB	2724	U	O4'-C1'-N1	5.88	112.90	108.20
37	BD	84	LEU	CB-CG-CD1	5.88	120.99	111.00
1	AA	1128	C	C5-C6-N1	5.87	123.94	121.00
35	BB	39	G	C4-C5-N7	-5.87	108.45	110.80
35	BB	203	A	O4'-C1'-C2'	5.87	112.89	107.60
35	BB	460	A	C8-N9-C4	5.87	108.15	105.80
35	BB	900	A	N9-C1'-C2'	-5.87	105.54	112.00
35	BB	1342	A	N9-C4-C5	5.87	108.15	105.80
35	BB	1472	C	N1-C2-N3	-5.87	115.09	119.20
35	BB	1655	A	O4'-C1'-N9	5.87	112.90	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	226	G	N1-C2-N2	-5.87	110.92	116.20
1	AA	549	C	C4'-C3'-C2'	-5.87	96.73	102.60
1	AA	927	G	N1-C2-N3	-5.87	120.38	123.90
1	AA	1242	G	O4'-C4'-C3'	-5.87	98.13	104.00
1	AA	1274	A	C5-C6-N1	-5.87	114.76	117.70
7	AG	19	SER	N-CA-C	-5.87	95.15	111.00
22	AV	76	A	N7-C8-N9	5.87	116.74	113.80
34	BA	16	G	C6-N1-C2	-5.87	121.58	125.10
34	BA	106	G	O4'-C1'-N9	5.87	112.90	108.20
35	BB	157	C	C5-C6-N1	5.87	123.94	121.00
35	BB	163	C	C6-N1-C2	5.87	122.65	120.30
35	BB	592	A	O4'-C1'-N9	5.87	112.90	108.20
35	BB	620	G	C8-N9-C4	-5.87	104.05	106.40
35	BB	1371	G	C4-N9-C1'	-5.87	118.87	126.50
35	BB	1430	G	C8-N9-C4	5.87	108.75	106.40
35	BB	1857	G	C3'-C2'-C1'	-5.87	96.80	101.50
35	BB	1928	A	C5-N7-C8	5.87	106.84	103.90
35	BB	2439	A	C4-C5-N7	5.87	113.64	110.70
35	BB	2871	U	N3-C4-O4	5.87	123.51	119.40
1	AA	27	G	N3-C4-C5	-5.87	125.67	128.60
1	AA	302	G	C4-C5-C6	5.87	122.32	118.80
1	AA	1225	A	N1-C2-N3	-5.87	126.36	129.30
22	AV	3	G	N3-C4-N9	5.87	129.52	126.00
35	BB	326	G	C5-N7-C8	-5.87	101.36	104.30
35	BB	505	A	C5-C6-N1	-5.87	114.77	117.70
35	BB	914	G	C5-N7-C8	-5.87	101.36	104.30
35	BB	933	A	C5-C6-N6	-5.87	119.00	123.70
35	BB	1126	A	C8-N9-C4	-5.87	103.45	105.80
35	BB	1167	C	N3-C4-N4	5.87	122.11	118.00
35	BB	1901	A	N1-C6-N6	5.87	122.12	118.60
1	AA	149	A	C8-N9-C4	-5.87	103.45	105.80
1	AA	171	A	C5-C6-N6	-5.87	119.00	123.70
1	AA	341	C	C6-N1-C1'	-5.87	113.76	120.80
1	AA	511	C	N3-C4-N4	5.87	122.11	118.00
1	AA	833	G	C6-C5-N7	-5.87	126.88	130.40
1	AA	1360	A	N3-C4-C5	-5.87	122.69	126.80
34	BA	4	C	O4'-C4'-C3'	-5.87	98.13	104.00
35	BB	273	G	N9-C4-C5	5.87	107.75	105.40
35	BB	759	G	N1-C2-N3	-5.87	120.38	123.90
35	BB	793	A	C6-C5-N7	-5.87	128.19	132.30
35	BB	872	U	O4'-C1'-N1	5.87	112.89	108.20
35	BB	1064	C	O4'-C1'-N1	5.87	112.89	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1434	A	N3-C4-N9	5.87	132.09	127.40
35	BB	1631	G	C8-N9-C4	5.87	108.75	106.40
35	BB	1966	A	C5'-C4'-O4'	5.87	116.14	109.10
35	BB	1970	A	C6-C5-N7	-5.87	128.19	132.30
35	BB	1989	G	C6-C5-N7	-5.87	126.88	130.40
35	BB	2080	A	N1-C6-N6	5.87	122.12	118.60
35	BB	2246	G	C5-C6-N1	5.87	114.44	111.50
35	BB	2663	G	C5'-C4'-O4'	5.87	116.14	109.10
35	BB	36	G	C6-N1-C2	5.87	128.62	125.10
35	BB	1727	C	N3-C4-N4	5.87	122.11	118.00
35	BB	1950	G	C5-N7-C8	5.87	107.23	104.30
35	BB	2074	U	C6-N1-C2	5.87	124.52	121.00
1	AA	780	A	N3-C4-C5	-5.87	122.69	126.80
1	AA	1002	G	C5-C6-N1	-5.87	108.57	111.50
35	BB	268	C	N1-C2-O2	5.87	122.42	118.90
35	BB	364	C	C6-N1-C2	-5.87	117.95	120.30
35	BB	553	G	C5-C6-O6	-5.87	125.08	128.60
35	BB	666	A	C6-C5-N7	-5.87	128.19	132.30
35	BB	734	A	C2-N3-C4	-5.87	107.67	110.60
35	BB	861	A	O4'-C1'-N9	5.87	112.89	108.20
35	BB	906	U	C2-N3-C4	5.87	130.52	127.00
35	BB	1028	A	C5'-C4'-O4'	5.87	116.14	109.10
35	BB	1352	U	C3'-C2'-C1'	5.87	106.19	101.50
35	BB	1779	U	O4'-C4'-C3'	-5.87	98.13	104.00
35	BB	1801	A	N1-C2-N3	-5.87	126.37	129.30
35	BB	2239	G	C6-N1-C2	-5.87	121.58	125.10
1	AA	26	A	N3-C4-C5	-5.86	122.70	126.80
1	AA	148	G	C4'-C3'-C2'	-5.86	96.74	102.60
1	AA	159	G	N3-C2-N2	5.86	124.00	119.90
1	AA	198	G	N3-C4-N9	5.86	129.52	126.00
1	AA	598	U	C2-N1-C1'	5.86	124.74	117.70
1	AA	644	U	C5-C6-N1	5.86	125.63	122.70
1	AA	1286	U	C5-C4-O4	5.86	129.42	125.90
1	AA	1495	U	N3-C4-O4	5.86	123.50	119.40
13	AM	94	LEU	CB-CG-CD2	5.86	120.97	111.00
23	AX	20	G	P-O3'-C3'	-5.86	112.66	119.70
34	BA	116	G	C4-C5-C6	5.86	122.32	118.80
35	BB	729	G	C8-N9-C1'	-5.86	119.38	127.00
35	BB	899	A	N1-C2-N3	5.86	132.23	129.30
35	BB	1021	A	C2-N3-C4	-5.86	107.67	110.60
35	BB	1209	U	N1-C2-N3	-5.86	111.38	114.90
35	BB	1212	G	C4-N9-C1'	5.86	134.12	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1929	G	N9-C4-C5	-5.86	103.06	105.40
35	BB	1981	A	O5'-P-OP2	-5.86	100.42	105.70
35	BB	2444	G	C4-C5-C6	5.86	122.32	118.80
35	BB	2700	A	N1-C6-N6	5.86	122.12	118.60
1	AA	491	G	N3-C2-N2	5.86	124.00	119.90
1	AA	1020	G	C5-N7-C8	5.86	107.23	104.30
1	AA	1460	C	C4'-C3'-C2'	-5.86	96.74	102.60
35	BB	1009	A	C6-C5-N7	-5.86	128.20	132.30
35	BB	1091	G	N1-C2-N3	-5.86	120.38	123.90
35	BB	1414	C	N3-C4-N4	5.86	122.10	118.00
35	BB	1770	G	C8-N9-C4	-5.86	104.06	106.40
1	AA	82	G	C6-C5-N7	-5.86	126.88	130.40
1	AA	848	C	N3-C2-O2	-5.86	117.80	121.90
1	AA	1367	C	C4-C5-C6	5.86	120.33	117.40
19	AS	9	PHE	CG-CD1-CE1	5.86	127.25	120.80
22	AV	29	G	O4'-C1'-N9	5.86	112.89	108.20
35	BB	201	C	C6-N1-C2	-5.86	117.96	120.30
35	BB	530	G	C8-N9-C4	-5.86	104.06	106.40
35	BB	663	G	O4'-C4'-C3'	-5.86	98.14	104.00
35	BB	1210	G	C6-C5-N7	-5.86	126.88	130.40
35	BB	2062	A	C6-C5-N7	-5.86	128.20	132.30
35	BB	2152	G	C4-C5-N7	-5.86	108.46	110.80
35	BB	2279	G	C4-C5-N7	5.86	113.14	110.80
35	BB	2317	A	N9-C4-C5	5.86	108.14	105.80
35	BB	2461	A	N1-C6-N6	5.86	122.12	118.60
50	BQ	38	VAL	CA-CB-CG2	-5.86	102.11	110.90
1	AA	74	A	N3-C4-C5	-5.86	122.70	126.80
1	AA	86	G	C6-N1-C2	-5.86	121.58	125.10
1	AA	1347	G	P-O5'-C5'	5.86	130.27	120.90
17	AQ	30	HIS	CA-CB-CG	-5.86	103.64	113.60
35	BB	33	C	P-O3'-C3'	5.86	126.73	119.70
35	BB	182	A	OP1-P-OP2	-5.86	110.81	119.60
35	BB	291	G	C4-C5-C6	5.86	122.31	118.80
35	BB	294	A	C4-C5-N7	-5.86	107.77	110.70
35	BB	1256	G	C2-N3-C4	5.86	114.83	111.90
35	BB	1844	C	OP1-P-OP2	-5.86	110.81	119.60
35	BB	1874	C	N1-C2-O2	-5.86	115.38	118.90
1	AA	406	G	C4-C5-C6	5.86	122.31	118.80
1	AA	1397	C	C5-C4-N4	-5.86	116.10	120.20
30	B5	224	VAL	CG1-CB-CG2	-5.86	101.53	110.90
35	BB	230	G	N3-C4-N9	5.86	129.51	126.00
35	BB	357	C	O4'-C1'-N1	5.86	112.89	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	662	G	N3-C2-N2	5.86	124.00	119.90
35	BB	784	G	O3'-P-O5'	-5.86	92.87	104.00
35	BB	910	A	C5-C6-N1	-5.86	114.77	117.70
35	BB	1128	G	O4'-C1'-N9	5.86	112.89	108.20
35	BB	1356	G	C2-N3-C4	5.86	114.83	111.90
35	BB	2107	G	N1-C2-N2	-5.86	110.93	116.20
35	BB	2189	U	N1-C1'-C2'	-5.86	105.56	112.00
35	BB	2358	A	C5-C6-N1	-5.86	114.77	117.70
35	BB	2539	C	C4-C5-C6	5.86	120.33	117.40
35	BB	2725	A	N7-C8-N9	-5.86	110.87	113.80
1	AA	124	C	C5-C4-N4	-5.86	116.10	120.20
1	AA	410	G	C5-N7-C8	-5.86	101.37	104.30
1	AA	693	G	C5-C6-O6	-5.86	125.09	128.60
1	AA	880	C	N3-C4-N4	5.86	122.10	118.00
1	AA	1036	A	C4-C5-C6	5.86	119.93	117.00
1	AA	1260	G	P-O3'-C3'	5.86	126.73	119.70
1	AA	1392	G	C4-C5-C6	5.86	122.31	118.80
1	AA	1457	G	C5-C6-N1	-5.86	108.57	111.50
35	BB	370	G	P-O5'-C5'	5.86	130.27	120.90
35	BB	446	G	N1-C2-N3	-5.86	120.39	123.90
35	BB	537	G	C5-C6-O6	-5.86	125.09	128.60
35	BB	918	A	N9-C4-C5	5.86	108.14	105.80
35	BB	1122	G	N1-C2-N2	-5.86	110.93	116.20
35	BB	2357	G	N3-C4-C5	-5.86	125.67	128.60
1	AA	57	G	C6-N1-C2	-5.85	121.59	125.10
1	AA	177	G	N1-C2-N3	-5.85	120.39	123.90
26	B1	23	ARG	N-CA-CB	5.85	121.14	110.60
35	BB	1149	G	C5-C6-O6	-5.85	125.09	128.60
35	BB	1710	G	C4-C5-C6	5.85	122.31	118.80
35	BB	1730	C	O4'-C1'-N1	5.85	112.88	108.20
35	BB	1833	C	N3-C4-C5	-5.85	119.56	121.90
48	BO	99	TYR	CZ-CE2-CD2	-5.85	114.53	119.80
1	AA	162	A	C6-N1-C2	5.85	122.11	118.60
1	AA	193	C	C6-N1-C2	-5.85	117.96	120.30
1	AA	648	A	C2-N3-C4	-5.85	107.67	110.60
1	AA	925	G	C6-C5-N7	-5.85	126.89	130.40
1	AA	1278	G	N3-C4-N9	5.85	129.51	126.00
1	AA	1278	G	N9-C4-C5	-5.85	103.06	105.40
35	BB	469	G	C4'-C3'-C2'	-5.85	96.75	102.60
35	BB	1469	A	C5-C6-N6	5.85	128.38	123.70
35	BB	1540	G	C8-N9-C4	5.85	108.74	106.40
35	BB	1553	A	N1-C6-N6	5.85	122.11	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2159	G	C5-C6-N1	-5.85	108.57	111.50
35	BB	2639	A	N7-C8-N9	-5.85	110.87	113.80
1	AA	492	C	C2-N3-C4	-5.85	116.97	119.90
1	AA	525	C	N1-C1'-C2'	-5.85	105.56	112.00
1	AA	777	A	N1-C2-N3	5.85	132.22	129.30
1	AA	988	G	C8-N9-C4	-5.85	104.06	106.40
22	AV	9	A	C5-C6-N6	-5.85	119.02	123.70
35	BB	133	U	N3-C4-C5	-5.85	111.09	114.60
35	BB	558	U	N3-C2-O2	5.85	126.30	122.20
35	BB	979	A	C5-N7-C8	5.85	106.83	103.90
35	BB	1841	U	N1-C2-O2	-5.85	118.70	122.80
35	BB	2378	A	C8-N9-C4	-5.85	103.46	105.80
1	AA	15	G	C8-N9-C4	-5.85	104.06	106.40
1	AA	87	C	C6-N1-C1'	-5.85	113.78	120.80
1	AA	914	A	N7-C8-N9	-5.85	110.88	113.80
1	AA	1069	C	C4-C5-C6	5.85	120.33	117.40
1	AA	1278	G	N1-C6-O6	5.85	123.41	119.90
1	AA	1310	G	N7-C8-N9	5.85	116.03	113.10
34	BA	63	C	C6-N1-C2	5.85	122.64	120.30
35	BB	194	G	N3-C4-N9	-5.85	122.49	126.00
35	BB	252	G	N3-C2-N2	5.85	124.00	119.90
35	BB	357	C	C2-N3-C4	5.85	122.83	119.90
35	BB	381	G	P-O3'-C3'	-5.85	112.68	119.70
35	BB	801	G	C5-N7-C8	5.85	107.22	104.30
35	BB	1004	U	C1'-O4'-C4'	-5.85	105.22	109.90
35	BB	1020	A	C5-C6-N6	-5.85	119.02	123.70
35	BB	1382	G	O5'-P-OP2	5.85	117.72	110.70
35	BB	2679	A	C5-C6-N6	-5.85	119.02	123.70
1	AA	83	C	N3-C4-C5	-5.85	119.56	121.90
1	AA	306	A	C8-N9-C4	-5.85	103.46	105.80
1	AA	1093	A	C5-C6-N6	-5.85	119.02	123.70
1	AA	1348	U	O4'-C1'-C2'	-5.85	99.95	105.80
2	AB	68	PHE	CB-CG-CD2	-5.85	116.71	120.80
34	BA	31	C	C6-N1-C2	-5.85	117.96	120.30
34	BA	51	G	N9-C4-C5	-5.85	103.06	105.40
35	BB	489	G	N3-C2-N2	5.85	123.99	119.90
35	BB	659	G	N1-C2-N2	-5.85	110.94	116.20
35	BB	773	U	C3'-C2'-C1'	5.85	106.18	101.50
35	BB	785	G	O4'-C1'-N9	5.85	112.88	108.20
35	BB	1057	A	C5-C6-N1	-5.85	114.78	117.70
35	BB	1128	G	C2-N3-C4	5.85	114.82	111.90
35	BB	1336	A	C2-N3-C4	-5.85	107.68	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1490	A	C5-C6-N1	-5.85	114.78	117.70
35	BB	1873	G	C4-N9-C1'	5.85	134.10	126.50
35	BB	1936	A	N1-C2-N3	5.85	132.22	129.30
35	BB	1967	C	C4-C5-C6	5.85	120.32	117.40
35	BB	2035	G	C4-C5-C6	5.85	122.31	118.80
35	BB	2258	C	C1'-O4'-C4'	5.85	114.58	109.90
35	BB	2379	G	O4'-C1'-N9	5.85	112.88	108.20
35	BB	2599	G	C4-N9-C1'	-5.85	118.90	126.50
35	BB	2701	U	C2-N3-C4	-5.85	123.49	127.00
53	BT	3	ARG	N-CA-CB	5.85	121.12	110.60
1	AA	39	G	N1-C6-O6	5.85	123.41	119.90
1	AA	41	G	N3-C4-C5	5.85	131.52	128.60
1	AA	128	G	C3'-C2'-C1'	5.85	106.18	101.50
22	AV	36	G	O5'-C5'-C4'	5.85	122.81	111.70
35	BB	2048	G	N1-C6-O6	5.85	123.41	119.90
35	BB	2233	U	OP1-P-OP2	-5.85	110.83	119.60
1	AA	128	G	C6-C5-N7	-5.84	126.89	130.40
1	AA	238	A	O4'-C1'-N9	5.84	112.88	108.20
1	AA	657	U	C5-C4-O4	-5.84	122.39	125.90
1	AA	1323	G	O3'-P-O5'	-5.84	92.90	104.00
1	AA	1331	G	C6-N1-C2	5.84	128.61	125.10
34	BA	89	U	C5-C4-O4	5.84	129.41	125.90
35	BB	457	A	C8-N9-C4	-5.84	103.46	105.80
35	BB	458	G	N3-C4-C5	-5.84	125.68	128.60
35	BB	654	A	N9-C4-C5	5.84	108.14	105.80
35	BB	961	C	O4'-C1'-C2'	-5.84	99.96	105.80
35	BB	1508	A	O5'-P-OP2	-5.84	100.44	105.70
35	BB	1865	U	O4'-C1'-N1	5.84	112.88	108.20
35	BB	1921	G	C8-N9-C4	-5.84	104.06	106.40
35	BB	2199	A	C4-C5-N7	-5.84	107.78	110.70
35	BB	2316	G	C5-N7-C8	5.84	107.22	104.30
35	BB	2608	G	N1-C2-N3	-5.84	120.39	123.90
43	BJ	135	GLN	CB-CA-C	5.84	122.09	110.40
1	AA	1055	A	C5'-C4'-O4'	5.84	116.11	109.10
1	AA	1191	A	C6-C5-N7	-5.84	128.21	132.30
1	AA	1343	G	C6-C5-N7	-5.84	126.89	130.40
1	AA	1486	G	N9-C4-C5	5.84	107.74	105.40
35	BB	69	C	N3-C4-C5	-5.84	119.56	121.90
35	BB	704	G	C5-C6-O6	-5.84	125.09	128.60
35	BB	1230	A	C1'-O4'-C4'	-5.84	105.22	109.90
35	BB	1466	U	C5-C6-N1	5.84	125.62	122.70
35	BB	1734	G	N3-C4-C5	-5.84	125.68	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	1876	A	C2-N3-C4	-5.84	107.68	110.60
1	AA	224	U	O5'-P-OP2	-5.84	100.44	105.70
1	AA	640	A	C4-C5-C6	5.84	119.92	117.00
1	AA	959	A	N3-C4-C5	-5.84	122.71	126.80
26	B1	26	PHE	CB-CG-CD2	5.84	124.89	120.80
35	BB	116	C	C5-C4-N4	-5.84	116.11	120.20
35	BB	678	C	P-O3'-C3'	-5.84	112.69	119.70
35	BB	906	U	C6-N1-C2	-5.84	117.50	121.00
35	BB	1187	G	C8-N9-C1'	5.84	134.59	127.00
35	BB	1240	U	O4'-C1'-C2'	-5.84	99.96	105.80
35	BB	1435	G	N9-C4-C5	5.84	107.74	105.40
35	BB	1713	A	P-O3'-C3'	5.84	126.71	119.70
35	BB	1793	C	C4'-C3'-C2'	-5.84	96.76	102.60
35	BB	2056	G	P-O3'-C3'	-5.84	112.69	119.70
36	BC	12	ARG	NE-CZ-NH2	-5.84	117.38	120.30
47	BN	72	ASP	CB-CG-OD2	5.84	123.56	118.30
1	AA	201	G	N9-C4-C5	5.84	107.73	105.40
1	AA	672	U	N3-C2-O2	5.84	126.29	122.20
35	BB	551	G	N7-C8-N9	5.84	116.02	113.10
35	BB	809	G	C8-N9-C4	-5.84	104.06	106.40
35	BB	1386	C	N3-C2-O2	5.84	125.99	121.90
35	BB	2794	C	C5-C4-N4	-5.84	116.11	120.20
1	AA	582	C	N3-C4-C5	-5.84	119.56	121.90
35	BB	669	G	C4-N9-C1'	5.84	134.09	126.50
35	BB	2126	A	O4'-C1'-C2'	-5.84	99.96	105.80
35	BB	2737	G	N1-C2-N3	-5.84	120.40	123.90
38	BE	78	TRP	CB-CG-CD1	5.84	134.59	127.00
1	AA	212	G	C4-C5-C6	5.84	122.30	118.80
1	AA	560	A	C5-C6-N1	-5.84	114.78	117.70
1	AA	897	C	C6-N1-C2	-5.84	117.97	120.30
1	AA	1398	A	C2'-C3'-O3'	5.84	123.04	113.70
35	BB	163	C	C5-C4-N4	-5.84	116.11	120.20
35	BB	334	C	C1'-O4'-C4'	-5.84	105.23	109.90
35	BB	351	C	N1-C2-O2	-5.84	115.40	118.90
35	BB	457	A	C4-C5-C6	5.84	119.92	117.00
35	BB	895	U	P-O5'-C5'	5.84	130.24	120.90
35	BB	1094	U	P-O3'-C3'	5.84	126.70	119.70
35	BB	1260	A	C4-C5-C6	5.84	119.92	117.00
35	BB	1309	G	C6-N1-C2	-5.84	121.60	125.10
35	BB	1430	G	C6-N1-C2	5.84	128.60	125.10
35	BB	2380	C	C5-C6-N1	-5.84	118.08	121.00
35	BB	2899	A	C5-C6-N6	-5.84	119.03	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	336	A	C5-C6-N1	-5.83	114.78	117.70
34	BA	44	G	P-O3'-C3'	-5.83	112.70	119.70
35	BB	178	G	N3-C4-N9	5.83	129.50	126.00
35	BB	1149	G	C6-C5-N7	-5.83	126.90	130.40
35	BB	1290	C	N1-C2-O2	5.83	122.40	118.90
35	BB	1323	C	N3-C4-N4	5.83	122.08	118.00
1	AA	696	A	N1-C6-N6	5.83	122.10	118.60
1	AA	725	G	N3-C4-C5	-5.83	125.68	128.60
1	AA	1031	C	C2-N3-C4	5.83	122.82	119.90
1	AA	1091	U	N3-C4-C5	-5.83	111.10	114.60
1	AA	1105	A	N9-C4-C5	-5.83	103.47	105.80
1	AA	1117	A	O4'-C1'-N9	5.83	112.87	108.20
1	AA	1152	A	C6-C5-N7	-5.83	128.22	132.30
1	AA	1218	C	N3-C4-N4	5.83	122.08	118.00
1	AA	1353	G	C1'-O4'-C4'	5.83	114.57	109.90
1	AA	1389	C	C5-C6-N1	5.83	123.92	121.00
1	AA	1525	G	N3-C2-N2	5.83	123.98	119.90
35	BB	562	U	N1-C2-N3	-5.83	111.40	114.90
35	BB	619	G	C4-C5-N7	5.83	113.13	110.80
35	BB	1210	G	N1-C2-N3	-5.83	120.40	123.90
35	BB	1285	A	C5-N7-C8	5.83	106.82	103.90
35	BB	1716	U	N3-C4-C5	-5.83	111.10	114.60
35	BB	1944	U	C4-C5-C6	5.83	123.20	119.70
35	BB	2349	G	C2-N3-C4	-5.83	108.98	111.90
35	BB	2361	G	O4'-C1'-N9	5.83	112.87	108.20
51	BR	13	ARG	N-CA-CB	5.83	121.10	110.60
1	AA	16	A	N1-C2-N3	-5.83	126.38	129.30
1	AA	17	U	C5-C4-O4	-5.83	122.40	125.90
1	AA	213	G	C5-C6-N1	5.83	114.42	111.50
1	AA	225	C	N3-C2-O2	-5.83	117.82	121.90
1	AA	838	G	C6-C5-N7	-5.83	126.90	130.40
22	AV	16	C	N3-C4-N4	5.83	122.08	118.00
35	BB	558	U	C1'-O4'-C4'	5.83	114.57	109.90
35	BB	1044	C	C6-N1-C2	-5.83	117.97	120.30
35	BB	1144	A	C2-N3-C4	5.83	113.52	110.60
35	BB	1917	U	N1-C2-N3	-5.83	111.40	114.90
35	BB	1985	C	C6-N1-C2	-5.83	117.97	120.30
35	BB	2093	G	O4'-C1'-N9	5.83	112.86	108.20
35	BB	2567	G	C4-C5-N7	5.83	113.13	110.80
44	BK	56	ASP	CB-CG-OD1	-5.83	113.05	118.30
1	AA	411	A	N7-C8-N9	-5.83	110.89	113.80
1	AA	897	C	O4'-C1'-N1	5.83	112.86	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1243	C	C4-C5-C6	5.83	120.31	117.40
35	BB	340	A	C5-C6-N1	-5.83	114.78	117.70
35	BB	1252	G	C2-N3-C4	5.83	114.81	111.90
35	BB	1624	U	C4-C5-C6	5.83	123.20	119.70
35	BB	1786	A	N7-C8-N9	-5.83	110.89	113.80
35	BB	1885	A	C5-C6-N1	-5.83	114.78	117.70
35	BB	2278	A	C5-N7-C8	5.83	106.81	103.90
35	BB	2558	C	N3-C4-C5	-5.83	119.57	121.90
35	BB	2823	A	C5-C6-N6	-5.83	119.04	123.70
35	BB	2837	A	O4'-C1'-N9	5.83	112.86	108.20
1	AA	208	U	C5-C4-O4	-5.83	122.40	125.90
1	AA	614	C	C1'-O4'-C4'	5.83	114.56	109.90
1	AA	667	G	C4-C5-C6	5.83	122.30	118.80
1	AA	1019	A	O5'-P-OP1	-5.83	100.45	105.70
1	AA	1150	A	O3'-P-O5'	-5.83	92.93	104.00
34	BA	78	A	C5-C6-N1	-5.83	114.79	117.70
35	BB	1031	G	O4'-C1'-N9	5.83	112.86	108.20
35	BB	1084	A	N7-C8-N9	-5.83	110.89	113.80
35	BB	1389	G	C4-C5-N7	-5.83	108.47	110.80
35	BB	1539	U	P-O3'-C3'	-5.83	112.70	119.70
35	BB	1827	U	N3-C4-O4	5.83	123.48	119.40
35	BB	2367	G	N1-C2-N3	-5.83	120.40	123.90
35	BB	2413	G	O4'-C1'-N9	5.83	112.86	108.20
35	BB	2613	U	C5'-C4'-O4'	5.83	116.09	109.10
1	AA	904	U	OP1-P-OP2	-5.83	110.86	119.60
1	AA	989	U	C5-C6-N1	5.83	125.61	122.70
1	AA	1373	G	C1'-O4'-C4'	5.83	114.56	109.90
15	AO	88	ARG	NE-CZ-NH1	5.83	123.21	120.30
35	BB	118	A	C5-N7-C8	5.83	106.81	103.90
35	BB	1388	G	C4-C5-N7	5.83	113.13	110.80
35	BB	1494	A	N1-C6-N6	5.83	122.10	118.60
35	BB	1587	G	C4-N9-C1'	5.83	134.07	126.50
35	BB	2122	U	O4'-C1'-N1	5.83	112.86	108.20
1	AA	133	U	C4'-C3'-C2'	-5.83	96.77	102.60
1	AA	287	U	O4'-C1'-N1	5.83	112.86	108.20
1	AA	316	C	N1-C2-N3	-5.83	115.12	119.20
1	AA	425	G	C4-C5-N7	5.83	113.13	110.80
1	AA	758	C	P-O3'-C3'	5.83	126.69	119.70
1	AA	1253	G	O4'-C1'-C2'	-5.83	99.97	105.80
1	AA	1278	G	C4-C5-N7	5.83	113.13	110.80
34	BA	23	G	P-O5'-C5'	5.83	130.22	120.90
34	BA	81	G	N9-C4-C5	-5.83	103.07	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	112	G	C6-C5-N7	-5.83	126.90	130.40
35	BB	312	G	C6-C5-N7	-5.83	126.90	130.40
35	BB	548	G	N7-C8-N9	-5.83	110.19	113.10
35	BB	1015	U	N3-C4-C5	-5.83	111.11	114.60
35	BB	1311	G	C6-C5-N7	-5.83	126.91	130.40
35	BB	1420	A	C1'-O4'-C4'	5.83	114.56	109.90
35	BB	1513	U	N1-C2-O2	-5.83	118.72	122.80
35	BB	1713	A	C2-N3-C4	5.83	113.51	110.60
35	BB	1969	A	C5-N7-C8	5.83	106.81	103.90
35	BB	2058	A	N9-C4-C5	5.83	108.13	105.80
35	BB	2074	U	C4-C5-C6	-5.83	116.20	119.70
35	BB	2661	G	P-O3'-C3'	5.83	126.69	119.70
35	BB	2838	G	C5-C6-N1	5.83	114.41	111.50
1	AA	965	U	O4'-C1'-N1	5.82	112.86	108.20
1	AA	1322	C	C5-C4-N4	-5.82	116.12	120.20
1	AA	1415	G	N3-C4-C5	-5.82	125.69	128.60
12	AL	28	GLN	O-C-N	5.82	132.02	122.70
19	AS	79	TYR	CB-CG-CD2	-5.82	117.51	121.00
35	BB	664	G	C4'-C3'-C2'	-5.82	96.78	102.60
35	BB	731	C	C5-C4-N4	-5.82	116.12	120.20
35	BB	735	A	C6-C5-N7	-5.82	128.22	132.30
35	BB	778	G	N3-C4-C5	5.82	131.51	128.60
35	BB	804	A	N7-C8-N9	-5.82	110.89	113.80
35	BB	868	U	N1-C2-O2	-5.82	118.72	122.80
35	BB	871	U	C5'-C4'-C3'	-5.82	106.68	116.00
35	BB	1095	A	C8-N9-C4	-5.82	103.47	105.80
35	BB	2115	G	C2-N3-C4	-5.82	108.99	111.90
35	BB	2291	U	C4-C5-C6	5.82	123.19	119.70
35	BB	2575	C	P-O5'-C5'	-5.82	111.58	120.90
39	BF	86	CYS	CB-CA-C	-5.82	98.75	110.40
43	BJ	31	GLU	N-CA-CB	5.82	121.08	110.60
1	AA	112	G	C2-N3-C4	5.82	114.81	111.90
1	AA	613	C	O4'-C1'-N1	5.82	112.86	108.20
1	AA	1456	A	C5-C6-N1	-5.82	114.79	117.70
30	B5	39	VAL	CG1-CB-CG2	5.82	120.22	110.90
35	BB	145	C	C5-C6-N1	5.82	123.91	121.00
35	BB	1085	A	C5-N7-C8	5.82	106.81	103.90
35	BB	1380	G	C8-N9-C1'	-5.82	119.43	127.00
35	BB	1498	C	C4'-C3'-C2'	5.82	108.42	102.60
35	BB	1733	G	O4'-C1'-N9	5.82	112.86	108.20
35	BB	2438	U	C5-C6-N1	5.82	125.61	122.70
1	AA	129	A	C4-C5-C6	5.82	119.91	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	597	G	N7-C8-N9	-5.82	110.19	113.10
1	AA	600	A	N7-C8-N9	-5.82	110.89	113.80
1	AA	642	A	C2-N3-C4	-5.82	107.69	110.60
1	AA	800	G	O4'-C1'-N9	5.82	112.86	108.20
1	AA	1508	A	C5-C6-N1	-5.82	114.79	117.70
4	AD	203	TYR	CB-CG-CD1	-5.82	117.51	121.00
34	BA	21	G	N9-C4-C5	-5.82	103.07	105.40
35	BB	3	U	C3'-C2'-C1'	5.82	106.16	101.50
35	BB	298	G	C5-C6-O6	-5.82	125.11	128.60
35	BB	390	U	N3-C4-O4	5.82	123.47	119.40
35	BB	1689	A	N7-C8-N9	-5.82	110.89	113.80
35	BB	2050	C	C6-N1-C2	5.82	122.63	120.30
35	BB	2608	G	C8-N9-C4	-5.82	104.07	106.40
1	AA	586	C	C6-N1-C2	5.82	122.63	120.30
1	AA	1092	A	N9-C4-C5	5.82	108.13	105.80
1	AA	1481	U	P-O3'-C3'	-5.82	112.72	119.70
35	BB	317	G	O4'-C1'-N9	5.82	112.86	108.20
35	BB	1182	G	N1-C2-N3	-5.82	120.41	123.90
35	BB	1408	G	C4-C5-N7	-5.82	108.47	110.80
35	BB	1722	A	N1-C6-N6	5.82	122.09	118.60
35	BB	2658	C	P-O3'-C3'	-5.82	112.72	119.70
1	AA	195	A	N1-C2-N3	5.82	132.21	129.30
1	AA	545	C	C5'-C4'-C3'	-5.82	106.69	116.00
1	AA	658	C	N1-C2-O2	-5.82	115.41	118.90
1	AA	716	A	N3-C4-C5	-5.82	122.73	126.80
1	AA	913	A	N1-C6-N6	5.82	122.09	118.60
1	AA	1437	A	C2-N3-C4	-5.82	107.69	110.60
1	AA	1482	G	N9-C4-C5	5.82	107.73	105.40
1	AA	1502	A	O4'-C1'-N9	5.82	112.85	108.20
35	BB	5	A	C5-C6-N1	-5.82	114.79	117.70
35	BB	204	A	C4-C5-C6	5.82	119.91	117.00
35	BB	464	U	N3-C4-O4	5.82	123.47	119.40
35	BB	871	U	C1'-O4'-C4'	5.82	114.55	109.90
35	BB	1008	A	C5-C6-N1	-5.82	114.79	117.70
35	BB	1211	C	P-O5'-C5'	-5.82	111.59	120.90
35	BB	1377	G	N1-C2-N2	-5.82	110.96	116.20
35	BB	1669	A	O4'-C1'-N9	5.82	112.86	108.20
35	BB	1804	C	C4-C5-C6	-5.82	114.49	117.40
35	BB	1995	U	C2-N1-C1'	-5.82	110.72	117.70
35	BB	2151	U	C5-C6-N1	5.82	125.61	122.70
35	BB	2648	G	C8-N9-C4	-5.82	104.07	106.40
35	BB	2868	A	C5-N7-C8	5.82	106.81	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	177	G	C2-N3-C4	5.82	114.81	111.90
1	AA	258	G	P-O3'-C3'	5.82	126.68	119.70
1	AA	566	G	C4-C5-C6	5.82	122.29	118.80
1	AA	982	U	C5-C4-O4	-5.82	122.41	125.90
35	BB	496	G	N1-C6-O6	5.82	123.39	119.90
35	BB	638	G	C8-N9-C4	-5.82	104.07	106.40
35	BB	1295	C	C5-C4-N4	-5.82	116.13	120.20
35	BB	1377	G	C6-C5-N7	-5.82	126.91	130.40
35	BB	1589	U	P-O5'-C5'	5.82	130.20	120.90
35	BB	1668	A	C8-N9-C4	5.82	108.13	105.80
35	BB	2452	C	C6-N1-C1'	-5.82	113.82	120.80
43	BJ	37	ARG	NE-CZ-NH2	5.82	123.21	120.30
1	AA	454	G	C5'-C4'-C3'	-5.81	106.70	116.00
1	AA	482	A	N1-C6-N6	5.81	122.09	118.60
1	AA	622	A	O4'-C1'-N9	5.81	112.85	108.20
35	BB	263	G	C8-N9-C4	-5.81	104.07	106.40
35	BB	1358	G	C5-C6-N1	5.81	114.41	111.50
35	BB	1520	U	C4-C5-C6	-5.81	116.21	119.70
35	BB	1871	A	N3-C4-C5	-5.81	122.73	126.80
47	BN	4	ARG	NE-CZ-NH2	-5.81	117.39	120.30
1	AA	206	C	N3-C2-O2	5.81	125.97	121.90
1	AA	289	G	N9-C4-C5	5.81	107.72	105.40
1	AA	971	G	C3'-C2'-C1'	-5.81	96.85	101.50
1	AA	1039	G	N3-C2-N2	5.81	123.97	119.90
1	AA	1138	G	C5-C6-N1	-5.81	108.59	111.50
35	BB	176	A	C4-C5-C6	5.81	119.91	117.00
35	BB	241	A	C3'-C2'-C1'	-5.81	96.85	101.50
35	BB	490	C	N3-C4-N4	5.81	122.07	118.00
35	BB	1061	U	C5-C6-N1	5.81	125.61	122.70
35	BB	1318	U	C5'-C4'-C3'	-5.81	106.70	116.00
35	BB	1390	U	C4-C5-C6	5.81	123.19	119.70
35	BB	1469	A	C6-C5-N7	-5.81	128.23	132.30
35	BB	1575	C	C5'-C4'-O4'	5.81	116.08	109.10
35	BB	1798	U	C4-C5-C6	-5.81	116.21	119.70
35	BB	2778	A	C4-C5-C6	5.81	119.91	117.00
1	AA	106	C	P-O5'-C5'	5.81	130.20	120.90
35	BB	1170	C	N3-C4-N4	5.81	122.07	118.00
35	BB	1700	A	C5-C6-N6	-5.81	119.05	123.70
35	BB	1787	A	O4'-C1'-N9	5.81	112.85	108.20
35	BB	1945	G	O4'-C1'-N9	5.81	112.85	108.20
1	AA	207	C	N3-C4-N4	5.81	122.07	118.00
1	AA	275	G	C5-C6-O6	-5.81	125.11	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	369	G	O4'-C1'-N9	5.81	112.85	108.20
1	AA	850	U	N3-C4-C5	-5.81	111.11	114.60
1	AA	904	U	N3-C4-O4	5.81	123.47	119.40
1	AA	1276	G	N7-C8-N9	5.81	116.00	113.10
1	AA	1534	A	C4-C5-N7	-5.81	107.80	110.70
35	BB	611	C	C2-N3-C4	5.81	122.81	119.90
35	BB	659	G	N1-C2-N3	-5.81	120.42	123.90
35	BB	945	A	C6-C5-N7	-5.81	128.23	132.30
35	BB	1175	A	C6-C5-N7	-5.81	128.23	132.30
35	BB	1490	A	C5-N7-C8	5.81	106.81	103.90
1	AA	286	C	P-O3'-C3'	-5.81	112.73	119.70
1	AA	711	G	C6-N1-C2	5.81	128.58	125.10
1	AA	870	U	N3-C4-O4	5.81	123.47	119.40
34	BA	104	A	C2-N3-C4	-5.81	107.70	110.60
35	BB	219	A	N9-C1'-C2'	-5.81	105.61	112.00
35	BB	379	G	O4'-C1'-N9	5.81	112.85	108.20
35	BB	395	U	N3-C4-O4	5.81	123.47	119.40
35	BB	769	U	P-O5'-C5'	5.81	130.19	120.90
35	BB	1266	G	N3-C4-C5	-5.81	125.70	128.60
35	BB	1296	G	N7-C8-N9	5.81	116.00	113.10
35	BB	1765	U	C2-N3-C4	-5.81	123.52	127.00
35	BB	1960	A	C5'-C4'-C3'	-5.81	106.71	116.00
35	BB	2421	G	C6-N1-C2	5.81	128.58	125.10
35	BB	2662	A	C5'-C4'-C3'	5.81	125.29	116.00
35	BB	2835	A	O4'-C1'-N9	5.81	112.85	108.20
1	AA	180	U	N3-C4-O4	5.81	123.46	119.40
1	AA	370	C	C6-N1-C2	-5.81	117.98	120.30
1	AA	837	U	N3-C4-C5	-5.81	111.12	114.60
1	AA	1454	G	O4'-C4'-C3'	-5.81	98.19	104.00
35	BB	46	G	N1-C6-O6	5.81	123.38	119.90
35	BB	1315	C	C5-C4-N4	-5.81	116.14	120.20
35	BB	1530	G	P-O3'-C3'	5.81	126.67	119.70
35	BB	1897	G	C6-N1-C2	-5.81	121.62	125.10
35	BB	2064	C	P-O3'-C3'	-5.81	112.73	119.70
35	BB	2867	G	C6-C5-N7	-5.81	126.92	130.40
45	BL	113	ALA	N-CA-CB	5.81	118.23	110.10
1	AA	365	U	C2-N1-C1'	5.80	124.67	117.70
1	AA	459	A	O4'-C1'-N9	5.80	112.84	108.20
1	AA	615	G	C5-C6-O6	-5.80	125.12	128.60
7	AG	78	ARG	NE-CZ-NH1	5.80	123.20	120.30
30	B5	12	ARG	N-CA-CB	5.80	121.05	110.60
35	BB	196	A	C4-N9-C1'	5.80	136.75	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	694	U	N3-C4-C5	-5.80	111.12	114.60
35	BB	932	U	N3-C4-O4	5.80	123.46	119.40
35	BB	967	U	C6-N1-C2	5.80	124.48	121.00
35	BB	1239	G	C2-N3-C4	5.80	114.80	111.90
35	BB	1391	U	N3-C4-C5	-5.80	111.12	114.60
35	BB	1546	G	C4-C5-C6	5.80	122.28	118.80
35	BB	1707	G	C5'-C4'-C3'	-5.80	106.71	116.00
35	BB	1904	G	C4-C5-N7	-5.80	108.48	110.80
35	BB	2054	A	C5-C6-N6	-5.80	119.06	123.70
35	BB	2110	G	N3-C4-N9	-5.80	122.52	126.00
35	BB	2539	C	N3-C4-N4	5.80	122.06	118.00
35	BB	2608	G	N9-C1'-C2'	-5.80	105.62	112.00
35	BB	2722	G	C6-N1-C2	5.80	128.58	125.10
1	AA	1079	G	C4-C5-N7	-5.80	108.48	110.80
34	BA	22	U	C5-C6-N1	5.80	125.60	122.70
35	BB	2009	A	C2-N3-C4	5.80	113.50	110.60
1	AA	364	A	N1-C2-N3	5.80	132.20	129.30
1	AA	496	A	C6-C5-N7	-5.80	128.24	132.30
1	AA	1306	A	C5-N7-C8	5.80	106.80	103.90
1	AA	1362	A	C2-N3-C4	-5.80	107.70	110.60
1	AA	1490	U	N1-C2-O2	-5.80	118.74	122.80
35	BB	154	U	N3-C4-O4	5.80	123.46	119.40
35	BB	608	A	C5-C6-N1	-5.80	114.80	117.70
35	BB	1095	A	C5'-C4'-O4'	5.80	116.06	109.10
35	BB	1403	A	C5-C6-N1	-5.80	114.80	117.70
35	BB	1754	A	OP1-P-OP2	-5.80	110.90	119.60
35	BB	2259	U	P-O3'-C3'	-5.80	112.74	119.70
35	BB	2617	U	P-O5'-C5'	-5.80	111.62	120.90
35	BB	2754	U	C4-C5-C6	-5.80	116.22	119.70
50	BQ	86	SER	N-CA-CB	5.80	119.20	110.50
1	AA	342	C	C6-N1-C2	-5.80	117.98	120.30
1	AA	347	G	N1-C2-N3	-5.80	120.42	123.90
1	AA	605	U	C4'-C3'-C2'	-5.80	96.80	102.60
1	AA	1258	G	O4'-C1'-N9	5.80	112.84	108.20
1	AA	1292	G	N1-C2-N3	-5.80	120.42	123.90
1	AA	1507	A	N1-C2-N3	5.80	132.20	129.30
35	BB	701	G	C5-C6-O6	-5.80	125.12	128.60
35	BB	716	A	C2-N3-C4	-5.80	107.70	110.60
35	BB	745	G	C6-C5-N7	-5.80	126.92	130.40
35	BB	814	C	N3-C4-C5	-5.80	119.58	121.90
35	BB	821	A	C1'-O4'-C4'	5.80	114.54	109.90
35	BB	2083	G	N3-C2-N2	5.80	123.96	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2358	A	P-O3'-C3'	-5.80	112.74	119.70
35	BB	2714	G	C4-C5-C6	5.80	122.28	118.80
1	AA	789	U	C5'-C4'-C3'	-5.80	106.72	116.00
1	AA	833	G	N1-C2-N3	-5.80	120.42	123.90
34	BA	83	G	N3-C2-N2	5.80	123.96	119.90
35	BB	83	A	N3-C4-C5	-5.80	122.74	126.80
35	BB	1683	U	N3-C2-O2	5.80	126.26	122.20
35	BB	1754	A	C5-N7-C8	5.80	106.80	103.90
35	BB	2314	A	C5-C6-N1	-5.80	114.80	117.70
1	AA	435	A	C4-C5-C6	5.80	119.90	117.00
1	AA	470	C	C5-C6-N1	5.80	123.90	121.00
1	AA	718	A	C4-C5-N7	-5.80	107.80	110.70
1	AA	891	U	C6-N1-C2	-5.80	117.52	121.00
1	AA	981	U	P-O3'-C3'	5.80	126.66	119.70
1	AA	985	C	C2-N3-C4	5.80	122.80	119.90
1	AA	1029	U	N1-C2-O2	-5.80	118.74	122.80
1	AA	1262	C	N3-C4-N4	5.80	122.06	118.00
1	AA	1392	G	C2-N3-C4	5.80	114.80	111.90
7	AG	137	ARG	NE-CZ-NH2	-5.80	117.40	120.30
15	AO	67	ASP	CB-CG-OD1	5.80	123.52	118.30
34	BA	57	A	C2-N3-C4	-5.80	107.70	110.60
35	BB	36	G	N3-C4-C5	-5.80	125.70	128.60
35	BB	929	U	P-O5'-C5'	-5.80	111.63	120.90
35	BB	1040	A	C5-N7-C8	5.80	106.80	103.90
35	BB	1332	G	C5-C6-O6	-5.80	125.12	128.60
35	BB	2067	G	C6-C5-N7	-5.80	126.92	130.40
35	BB	2407	A	C4-N9-C1'	5.80	136.73	126.30
35	BB	2786	U	O4'-C1'-N1	5.80	112.84	108.20
46	BM	103	TYR	CB-CG-CD2	5.80	124.48	121.00
1	AA	608	A	N3-C4-N9	5.79	132.04	127.40
1	AA	615	G	N1-C6-O6	5.79	123.38	119.90
1	AA	729	A	C6-N1-C2	5.79	122.08	118.60
35	BB	777	G	O5'-C5'-C4'	-5.79	100.69	111.70
35	BB	872	U	N3-C4-C5	-5.79	111.12	114.60
35	BB	1369	G	C1'-O4'-C4'	5.79	114.54	109.90
35	BB	1710	G	N9-C4-C5	5.79	107.72	105.40
35	BB	2229	U	C5-C6-N1	5.79	125.60	122.70
53	BT	73	ARG	CG-CD-NE	-5.79	99.63	111.80
1	AA	343	U	N3-C4-C5	-5.79	111.12	114.60
34	BA	50	A	C5-C6-N1	-5.79	114.80	117.70
35	BB	486	C	C4-C5-C6	5.79	120.30	117.40
35	BB	1170	C	C5-C4-N4	-5.79	116.14	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1582	C	C6-N1-C2	-5.79	117.98	120.30
35	BB	1906	G	C5-N7-C8	-5.79	101.40	104.30
35	BB	2580	U	C5-C4-O4	-5.79	122.42	125.90
35	BB	2811	G	C5-N7-C8	-5.79	101.40	104.30
46	BM	85	GLY	N-CA-C	-5.79	98.62	113.10
52	BS	76	VAL	N-CA-C	-5.79	95.36	111.00
1	AA	1177	G	N1-C2-N2	-5.79	110.99	116.20
1	AA	1461	G	C5-C6-N1	-5.79	108.60	111.50
1	AA	1475	G	N9-C1'-C2'	-5.79	105.63	112.00
35	BB	267	C	C6-N1-C2	-5.79	117.98	120.30
35	BB	381	G	C8-N9-C4	5.79	108.72	106.40
35	BB	400	G	C2-N3-C4	-5.79	109.00	111.90
35	BB	437	U	C6-N1-C2	-5.79	117.53	121.00
35	BB	719	C	C2-N3-C4	-5.79	117.00	119.90
35	BB	746	U	P-O3'-C3'	5.79	126.65	119.70
35	BB	1738	G	C5-C6-N1	5.79	114.40	111.50
35	BB	1792	G	C6-C5-N7	-5.79	126.92	130.40
35	BB	2169	A	C5-N7-C8	5.79	106.80	103.90
35	BB	2559	C	N1-C2-O2	-5.79	115.42	118.90
50	BQ	49	ARG	NE-CZ-NH1	5.79	123.20	120.30
1	AA	284	C	C6-N1-C1'	-5.79	113.85	120.80
1	AA	946	A	C1'-O4'-C4'	-5.79	105.27	109.90
35	BB	28	A	N1-C2-N3	5.79	132.19	129.30
35	BB	1409	U	C4'-C3'-C2'	-5.79	96.81	102.60
35	BB	2011	U	C4'-C3'-C2'	-5.79	96.81	102.60
35	BB	2375	G	C6-C5-N7	-5.79	126.93	130.40
54	BU	66	VAL	CG1-CB-CG2	5.79	120.16	110.90
1	AA	807	A	N7-C8-N9	-5.79	110.91	113.80
1	AA	809	G	C2-N3-C4	5.79	114.80	111.90
1	AA	1041	G	C5-C6-N1	-5.79	108.61	111.50
1	AA	1368	A	P-O3'-C3'	-5.79	112.75	119.70
35	BB	1289	C	C2-N1-C1'	5.79	125.17	118.80
35	BB	1490	A	N7-C8-N9	-5.79	110.91	113.80
35	BB	1681	G	C2-N3-C4	5.79	114.79	111.90
35	BB	2294	G	C6-N1-C2	5.79	128.57	125.10
35	BB	2379	G	C5-N7-C8	-5.79	101.41	104.30
35	BB	2518	A	C1'-O4'-C4'	5.79	114.53	109.90
35	BB	2682	A	C4-C5-C6	5.79	119.89	117.00
1	AA	962	C	C2-N3-C4	5.79	122.79	119.90
22	AV	16	C	O4'-C1'-N1	5.79	112.83	108.20
34	BA	53	A	C6-C5-N7	-5.79	128.25	132.30
34	BA	58	A	C3'-C2'-C1'	5.79	106.13	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	770	G	C5-N7-C8	-5.79	101.41	104.30
35	BB	1433	A	N1-C2-N3	5.79	132.19	129.30
35	BB	1745	A	C4'-C3'-C2'	-5.79	96.81	102.60
35	BB	1997	C	C6-N1-C2	5.79	122.61	120.30
35	BB	2267	A	N1-C2-N3	5.79	132.19	129.30
35	BB	2868	A	C2-N3-C4	-5.79	107.71	110.60
1	AA	557	G	N1-C6-O6	5.79	123.37	119.90
7	AG	139	ASP	CB-CG-OD1	5.79	123.51	118.30
17	AQ	77	VAL	CA-CB-CG2	-5.79	102.22	110.90
34	BA	86	G	C4-C5-N7	5.79	113.11	110.80
35	BB	61	C	C6-N1-C2	5.79	122.61	120.30
35	BB	384	A	N7-C8-N9	-5.79	110.91	113.80
35	BB	1143	A	C6-C5-N7	-5.79	128.25	132.30
35	BB	1423	G	C4'-C3'-C2'	5.79	108.39	102.60
35	BB	1556	C	C4-C5-C6	5.79	120.29	117.40
35	BB	1903	G	N7-C8-N9	-5.79	110.21	113.10
35	BB	1909	C	C2-N1-C1'	5.79	125.17	118.80
35	BB	2370	G	C6-N1-C2	5.79	128.57	125.10
35	BB	2409	G	N3-C4-C5	5.79	131.49	128.60
35	BB	2441	U	P-O3'-C3'	-5.79	112.76	119.70
35	BB	2770	G	N1-C6-O6	5.79	123.37	119.90
1	AA	50	A	C1'-O4'-C4'	-5.78	105.27	109.90
1	AA	1131	G	C1'-O4'-C4'	-5.78	105.27	109.90
1	AA	1361	G	C5-C6-O6	-5.78	125.13	128.60
35	BB	949	G	N3-C2-N2	5.78	123.95	119.90
35	BB	1542	U	N3-C4-C5	5.78	118.07	114.60
35	BB	2070	A	C2-N3-C4	-5.78	107.71	110.60
35	BB	2170	A	C5-C6-N6	-5.78	119.07	123.70
35	BB	2176	A	N3-C4-C5	-5.78	122.75	126.80
35	BB	2511	U	C5'-C4'-O4'	-5.78	102.16	109.10
35	BB	2871	U	C1'-O4'-C4'	5.78	114.53	109.90
48	BO	108	ASP	CB-CG-OD2	-5.78	113.09	118.30
1	AA	108	G	C8-N9-C4	-5.78	104.09	106.40
1	AA	464	U	N3-C4-C5	-5.78	111.13	114.60
1	AA	709	U	C4'-C3'-C2'	-5.78	96.82	102.60
22	AV	70	C	N3-C2-O2	-5.78	117.85	121.90
35	BB	280	U	N1-C2-O2	-5.78	118.75	122.80
35	BB	546	U	N3-C4-O4	5.78	123.45	119.40
35	BB	646	U	N3-C4-O4	5.78	123.45	119.40
35	BB	977	G	C8-N9-C4	-5.78	104.09	106.40
35	BB	1067	A	C8-N9-C4	-5.78	103.49	105.80
35	BB	2347	C	OP1-P-OP2	-5.78	110.93	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2824	C	C2-N1-C1'	5.78	125.16	118.80
1	AA	176	C	C4-C5-C6	5.78	120.29	117.40
1	AA	698	G	C6-N1-C2	5.78	128.57	125.10
1	AA	1284	C	C5'-C4'-O4'	5.78	116.04	109.10
1	AA	1459	G	N7-C8-N9	-5.78	110.21	113.10
10	AJ	31	ARG	NE-CZ-NH2	5.78	123.19	120.30
19	AS	21	ALA	CB-CA-C	-5.78	101.43	110.10
22	AV	27	C	N3-C4-N4	5.78	122.05	118.00
34	BA	94	A	P-O3'-C3'	-5.78	112.76	119.70
35	BB	19	A	C5-N7-C8	5.78	106.79	103.90
35	BB	602	A	P-O3'-C3'	-5.78	112.76	119.70
35	BB	948	C	O5'-P-OP2	-5.78	100.50	105.70
35	BB	949	G	C4-C5-N7	5.78	113.11	110.80
35	BB	969	G	C4-C5-C6	5.78	122.27	118.80
35	BB	1042	G	C5-C6-N1	-5.78	108.61	111.50
35	BB	1446	C	O4'-C1'-N1	5.78	112.82	108.20
35	BB	1479	G	N1-C6-O6	5.78	123.37	119.90
35	BB	1536	C	C5-C6-N1	5.78	123.89	121.00
35	BB	1863	G	O4'-C1'-N9	5.78	112.83	108.20
35	BB	1918	A	P-O3'-C3'	5.78	126.64	119.70
35	BB	2203	U	N3-C4-C5	-5.78	111.13	114.60
35	BB	2421	G	N3-C2-N2	5.78	123.95	119.90
35	BB	2447	G	C4-C5-N7	5.78	113.11	110.80
35	BB	2582	G	C2-N3-C4	-5.78	109.01	111.90
35	BB	2614	A	C4-C5-C6	5.78	119.89	117.00
35	BB	2883	A	OP1-P-OP2	-5.78	110.93	119.60
1	AA	760	G	OP1-P-OP2	-5.78	110.93	119.60
3	AC	105	VAL	O-C-N	5.78	131.95	122.70
35	BB	441	U	N3-C4-O4	5.78	123.45	119.40
35	BB	782	A	C4-C5-N7	-5.78	107.81	110.70
35	BB	926	G	O4'-C1'-N9	5.78	112.82	108.20
35	BB	975	A	N9-C4-C5	5.78	108.11	105.80
35	BB	1386	C	O4'-C1'-N1	5.78	112.82	108.20
35	BB	2492	U	C4'-C3'-C2'	-5.78	96.82	102.60
56	BY	78	PHE	CB-CG-CD1	5.78	124.84	120.80
1	AA	801	U	C3'-C2'-C1'	-5.78	96.88	101.50
1	AA	1098	C	O4'-C1'-N1	5.78	112.82	108.20
35	BB	116	C	N1-C2-O2	-5.78	115.43	118.90
35	BB	498	G	C1'-O4'-C4'	5.78	114.52	109.90
35	BB	1006	C	C6-N1-C1'	-5.78	113.87	120.80
35	BB	2316	G	N1-C6-O6	5.78	123.37	119.90
35	BB	2801	G	C4-C5-N7	5.78	113.11	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	BN	14	SER	N-CA-CB	5.78	119.17	110.50
1	AA	76	G	C5-C6-N1	-5.78	108.61	111.50
1	AA	281	G	C5'-C4'-O4'	5.78	116.03	109.10
1	AA	638	U	P-O3'-C3'	-5.78	112.77	119.70
14	AN	76	PHE	CB-CG-CD1	-5.78	116.76	120.80
33	B8	37	GLN	N-CA-C	-5.78	95.41	111.00
35	BB	110	G	C2-N3-C4	-5.78	109.01	111.90
35	BB	273	G	N1-C2-N3	-5.78	120.44	123.90
35	BB	456	C	O4'-C1'-N1	5.78	112.82	108.20
35	BB	988	A	C5-C6-N1	-5.78	114.81	117.70
35	BB	1132	U	O4'-C1'-N1	5.78	112.82	108.20
35	BB	1159	U	N1-C1'-C2'	5.78	121.51	114.00
35	BB	1394	U	C1'-O4'-C4'	-5.78	105.28	109.90
35	BB	1732	C	C4'-C3'-C2'	5.78	108.38	102.60
35	BB	1793	C	C6-N1-C2	-5.78	117.99	120.30
35	BB	1864	U	C2-N3-C4	-5.78	123.53	127.00
35	BB	1890	A	N7-C8-N9	5.78	116.69	113.80
35	BB	1890	A	O4'-C1'-N9	5.78	112.82	108.20
35	BB	2073	C	N3-C4-N4	5.78	122.04	118.00
35	BB	2297	A	N7-C8-N9	5.78	116.69	113.80
35	BB	2872	A	N3-C4-C5	-5.78	122.76	126.80
1	AA	475	C	N1-C2-O2	-5.77	115.44	118.90
1	AA	766	A	C4-C5-C6	5.77	119.89	117.00
35	BB	412	A	C6-N1-C2	5.77	122.06	118.60
35	BB	1026	G	N1-C6-O6	5.77	123.36	119.90
35	BB	1308	A	C5-C6-N6	-5.77	119.08	123.70
35	BB	2062	A	O4'-C1'-N9	5.77	112.82	108.20
35	BB	2075	U	N3-C4-O4	-5.77	115.36	119.40
35	BB	2671	G	C6-N1-C2	-5.77	121.64	125.10
1	AA	81	A	C4'-C3'-C2'	5.77	108.37	102.60
1	AA	162	A	C4-C5-N7	-5.77	107.81	110.70
1	AA	192	A	C3'-C2'-C1'	5.77	106.12	101.50
1	AA	250	A	C2-N3-C4	5.77	113.49	110.60
1	AA	368	U	C6-N1-C2	-5.77	117.54	121.00
1	AA	755	G	C5'-C4'-C3'	-5.77	106.76	116.00
1	AA	870	U	C5'-C4'-C3'	-5.77	106.76	116.00
1	AA	1500	A	OP1-P-O3'	5.77	117.90	105.20
34	BA	102	G	C4-C5-C6	5.77	122.26	118.80
35	BB	416	U	N3-C4-C5	5.77	118.06	114.60
35	BB	621	A	O4'-C1'-N9	5.77	112.82	108.20
35	BB	1351	C	C6-N1-C2	5.77	122.61	120.30
35	BB	1610	A	O5'-P-OP1	-5.77	100.50	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1738	G	O4'-C1'-N9	5.77	112.82	108.20
35	BB	2365	G	N7-C8-N9	5.77	115.99	113.10
35	BB	2384	U	C3'-C2'-C1'	-5.77	96.88	101.50
37	BD	82	PHE	CD1-CG-CD2	-5.77	110.80	118.30
1	AA	759	A	C6-C5-N7	-5.77	128.26	132.30
4	AD	132	ALA	N-CA-CB	5.77	118.18	110.10
35	BB	392	U	N3-C2-O2	-5.77	118.16	122.20
35	BB	1299	G	O4'-C1'-N9	5.77	112.82	108.20
35	BB	1886	U	N3-C4-C5	-5.77	111.14	114.60
35	BB	2183	A	N1-C2-N3	5.77	132.19	129.30
35	BB	2333	A	C2-N3-C4	-5.77	107.71	110.60
1	AA	31	G	C4-N9-C1'	5.77	134.00	126.50
1	AA	763	G	C8-N9-C1'	5.77	134.50	127.00
1	AA	1466	C	C5-C4-N4	-5.77	116.16	120.20
1	AA	1493	A	P-O5'-C5'	5.77	130.13	120.90
1	AA	1522	U	O4'-C1'-N1	5.77	112.81	108.20
1	AA	1529	G	P-O3'-C3'	5.77	126.62	119.70
26	B1	51	ALA	N-CA-CB	5.77	118.18	110.10
35	BB	371	A	N7-C8-N9	5.77	116.68	113.80
35	BB	1394	U	C2-N1-C1'	-5.77	110.78	117.70
35	BB	2480	C	C3'-C2'-C1'	5.77	106.11	101.50
1	AA	618	C	C5-C4-N4	-5.77	116.16	120.20
1	AA	657	U	C6-N1-C2	5.77	124.46	121.00
1	AA	1118	U	C6-N1-C1'	-5.77	113.13	121.20
1	AA	1257	A	C1'-O4'-C4'	-5.77	105.29	109.90
1	AA	1302	C	N1-C1'-C2'	5.77	121.50	114.00
34	BA	63	C	N3-C4-N4	5.77	122.04	118.00
35	BB	917	A	O4'-C1'-N9	5.77	112.81	108.20
35	BB	972	A	C4-C5-N7	-5.77	107.82	110.70
35	BB	1046	A	C4-C5-C6	5.77	119.88	117.00
35	BB	1129	A	N3-C4-C5	-5.77	122.76	126.80
35	BB	1454	C	O4'-C1'-N1	5.77	112.81	108.20
35	BB	1762	A	C6-C5-N7	-5.77	128.26	132.30
35	BB	1983	G	P-O5'-C5'	-5.77	111.67	120.90
35	BB	2279	G	C3'-C2'-C1'	5.77	106.11	101.50
35	BB	2825	G	C3'-C2'-C1'	-5.77	96.89	101.50
1	AA	1461	G	C1'-O4'-C4'	5.77	114.51	109.90
35	BB	255	A	C4-C5-C6	5.77	119.88	117.00
35	BB	776	G	N3-C2-N2	5.77	123.94	119.90
35	BB	874	G	C4'-C3'-C2'	-5.77	96.83	102.60
35	BB	1842	G	C4-C5-C6	5.77	122.26	118.80
35	BB	2199	A	C5-C6-N6	-5.77	119.09	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2765	A	C4-C5-C6	5.77	119.88	117.00
1	AA	33	A	C5-N7-C8	5.76	106.78	103.90
1	AA	366	A	N1-C2-N3	5.76	132.18	129.30
1	AA	423	G	C5-C6-N1	-5.76	108.62	111.50
1	AA	693	G	N3-C2-N2	5.76	123.94	119.90
1	AA	1465	A	C6-C5-N7	-5.76	128.26	132.30
3	AC	155	ARG	NE-CZ-NH2	-5.76	117.42	120.30
35	BB	110	G	N1-C2-N3	-5.76	120.44	123.90
35	BB	324	A	O4'-C1'-N9	5.76	112.81	108.20
35	BB	808	G	C5-N7-C8	-5.76	101.42	104.30
35	BB	935	C	N3-C4-C5	-5.76	119.59	121.90
35	BB	1300	G	C8-N9-C4	5.76	108.71	106.40
35	BB	1573	G	C8-N9-C1'	5.76	134.50	127.00
35	BB	2216	G	C5-C6-N1	5.76	114.38	111.50
35	BB	2232	C	OP1-P-OP2	-5.76	110.95	119.60
35	BB	2418	A	N3-C4-C5	-5.76	122.77	126.80
35	BB	2439	A	P-O3'-C3'	5.76	126.62	119.70
35	BB	2695	U	O4'-C1'-N1	5.76	112.81	108.20
1	AA	739	C	C4'-C3'-C2'	-5.76	96.84	102.60
22	AV	59	A	C4-C5-C6	5.76	119.88	117.00
35	BB	1734	G	C4'-C3'-C2'	-5.76	96.84	102.60
1	AA	25	C	C6-N1-C1'	-5.76	113.89	120.80
1	AA	202	G	C5-N7-C8	5.76	107.18	104.30
1	AA	557	G	C5-C6-N1	-5.76	108.62	111.50
1	AA	803	G	C6-C5-N7	-5.76	126.94	130.40
1	AA	1374	A	C5'-C4'-C3'	-5.76	106.78	116.00
2	AB	204	ASP	CB-CA-C	-5.76	98.88	110.40
35	BB	79	C	O4'-C1'-N1	5.76	112.81	108.20
35	BB	328	U	P-O3'-C3'	5.76	126.61	119.70
35	BB	1820	U	O4'-C1'-N1	5.76	112.81	108.20
35	BB	1856	U	N3-C2-O2	5.76	126.23	122.20
35	BB	2070	A	C4'-C3'-C2'	-5.76	96.84	102.60
35	BB	2079	U	O5'-P-OP2	-5.76	100.51	105.70
1	AA	977	A	N1-C2-N3	-5.76	126.42	129.30
1	AA	1043	G	C5-C6-N1	-5.76	108.62	111.50
35	BB	77	G	O4'-C1'-N9	5.76	112.81	108.20
35	BB	119	A	C8-N9-C4	5.76	108.10	105.80
35	BB	633	A	N1-C2-N3	5.76	132.18	129.30
35	BB	721	A	C8-N9-C4	-5.76	103.50	105.80
35	BB	1327	A	C5'-C4'-O4'	5.76	116.01	109.10
35	BB	1338	G	OP1-P-OP2	-5.76	110.96	119.60
35	BB	1696	G	N1-C6-O6	5.76	123.36	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	1799	G	N3-C4-C5	5.76	131.48	128.60
35	BB	2123	G	N1-C2-N3	5.76	127.36	123.90
35	BB	2327	A	C6-N1-C2	-5.76	115.14	118.60
1	AA	691	G	N3-C4-N9	5.76	129.46	126.00
1	AA	873	A	C5-C6-N1	-5.76	114.82	117.70
1	AA	1115	U	O4'-C1'-N1	5.76	112.81	108.20
16	AP	60	TRP	N-CA-CB	5.76	120.96	110.60
35	BB	552	U	C1'-O4'-C4'	-5.76	105.29	109.90
1	AA	426	U	C5'-C4'-C3'	-5.76	106.79	116.00
1	AA	1134	G	C6-N1-C2	-5.76	121.65	125.10
1	AA	1157	A	C5-C6-N6	-5.76	119.09	123.70
1	AA	1518	A	C4-C5-C6	5.76	119.88	117.00
1	AA	1524	C	C5-C4-N4	-5.76	116.17	120.20
3	AC	88	LYS	CB-CG-CD	5.76	126.57	111.60
3	AC	131	ARG	NH1-CZ-NH2	5.76	125.73	119.40
19	AS	13	HIS	CA-CB-CG	-5.76	103.81	113.60
35	BB	313	G	P-O3'-C3'	-5.76	112.79	119.70
35	BB	319	G	OP1-P-OP2	-5.76	110.97	119.60
35	BB	889	C	O4'-C1'-N1	5.76	112.81	108.20
35	BB	1649	G	C8-N9-C4	-5.76	104.10	106.40
35	BB	2054	A	N7-C8-N9	-5.76	110.92	113.80
35	BB	2414	G	C2-N3-C4	-5.76	109.02	111.90
1	AA	85	U	C6-N1-C2	5.75	124.45	121.00
1	AA	1268	G	N3-C2-N2	5.75	123.93	119.90
35	BB	788	A	C8-N9-C4	5.75	108.10	105.80
35	BB	1715	G	C5-C6-O6	-5.75	125.15	128.60
35	BB	2736	A	O4'-C1'-N9	5.75	112.80	108.20
35	BB	2782	G	C5'-C4'-O4'	5.75	116.00	109.10
35	BB	2896	C	C1'-O4'-C4'	-5.75	105.30	109.90
56	BY	25	PHE	CB-CG-CD1	5.75	124.83	120.80
1	AA	328	C	C2-N1-C1'	5.75	125.13	118.80
1	AA	900	A	N9-C4-C5	-5.75	103.50	105.80
1	AA	1168	U	P-O3'-C3'	5.75	126.60	119.70
1	AA	1340	A	C6-N1-C2	-5.75	115.15	118.60
35	BB	420	C	O4'-C1'-N1	5.75	112.80	108.20
35	BB	531	C	C6-N1-C2	-5.75	118.00	120.30
35	BB	825	A	C5-C6-N6	-5.75	119.10	123.70
35	BB	1021	A	O4'-C1'-N9	5.75	112.80	108.20
35	BB	1389	G	N3-C4-C5	-5.75	125.72	128.60
35	BB	1409	U	N1-C2-O2	5.75	126.83	122.80
35	BB	1476	U	N1-C2-N3	-5.75	111.45	114.90
35	BB	1526	C	C5-C4-N4	-5.75	116.17	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1697	G	C5'-C4'-O4'	5.75	116.00	109.10
35	BB	2198	A	C8-N9-C4	-5.75	103.50	105.80
35	BB	2839	G	C6-N1-C2	5.75	128.55	125.10
46	BM	28	PHE	CB-CG-CD2	5.75	124.83	120.80
1	AA	495	A	N1-C2-N3	5.75	132.18	129.30
34	BA	88	C	C5-C6-N1	-5.75	118.12	121.00
34	BA	96	G	C5-N7-C8	5.75	107.17	104.30
35	BB	1699	G	C4-C5-C6	5.75	122.25	118.80
35	BB	2030	A	C5-N7-C8	5.75	106.78	103.90
35	BB	2291	U	C5-C6-N1	-5.75	119.83	122.70
1	AA	198	G	C6-C5-N7	-5.75	126.95	130.40
1	AA	364	A	C6-C5-N7	-5.75	128.28	132.30
1	AA	1242	G	C2-N3-C4	-5.75	109.03	111.90
6	AF	63	ASN	N-CA-CB	5.75	120.95	110.60
26	B1	11	VAL	CA-CB-CG1	-5.75	102.27	110.90
35	BB	290	U	N1-C2-N3	5.75	118.35	114.90
35	BB	763	G	C5-C6-N1	-5.75	108.62	111.50
35	BB	829	A	C6-C5-N7	-5.75	128.28	132.30
35	BB	904	G	N7-C8-N9	-5.75	110.22	113.10
35	BB	2260	C	C4'-C3'-C2'	-5.75	96.85	102.60
35	BB	2284	A	C4-C5-N7	-5.75	107.83	110.70
35	BB	2733	A	N1-C6-N6	5.75	122.05	118.60
1	AA	288	A	C5-C6-N6	-5.75	119.10	123.70
1	AA	347	G	C5-C6-N1	-5.75	108.63	111.50
1	AA	676	A	C5-C6-N1	-5.75	114.83	117.70
1	AA	739	C	C6-N1-C2	-5.75	118.00	120.30
1	AA	1293	C	C2-N3-C4	-5.75	117.03	119.90
22	AV	7	G	N3-C4-C5	-5.75	125.73	128.60
35	BB	417	C	O4'-C1'-N1	5.75	112.80	108.20
35	BB	1275	A	N1-C2-N3	-5.75	126.43	129.30
35	BB	1300	G	N7-C8-N9	-5.75	110.23	113.10
35	BB	1439	A	N1-C2-N3	5.75	132.17	129.30
35	BB	1873	G	P-O3'-C3'	-5.75	112.80	119.70
35	BB	2013	A	C6-C5-N7	-5.75	128.28	132.30
35	BB	2267	A	O4'-C1'-N9	5.75	112.80	108.20
35	BB	2662	A	N1-C2-N3	5.75	132.18	129.30
35	BB	2665	A	N1-C2-N3	5.75	132.17	129.30
1	AA	23	C	C6-N1-C2	-5.75	118.00	120.30
1	AA	108	G	N9-C1'-C2'	-5.75	105.68	112.00
1	AA	704	A	C4-C5-C6	5.75	119.87	117.00
5	AE	47	PHE	O-C-N	-5.75	113.43	123.20
35	BB	1333	G	C5-C6-O6	-5.75	125.15	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1397	U	C5-C6-N1	5.75	125.57	122.70
35	BB	1865	U	C4-C5-C6	5.75	123.15	119.70
35	BB	2029	G	N3-C2-N2	5.75	123.92	119.90
53	BT	23	ALA	N-CA-CB	5.75	118.15	110.10
1	AA	487	A	O4'-C1'-N9	5.75	112.80	108.20
1	AA	604	G	O4'-C1'-N9	5.75	112.80	108.20
1	AA	1226	C	N1-C2-O2	5.75	122.35	118.90
28	B3	30	ASP	N-CA-CB	5.75	120.94	110.60
35	BB	211	C	O4'-C1'-N1	5.75	112.80	108.20
35	BB	518	G	C4-C5-N7	5.75	113.10	110.80
35	BB	1332	G	C5'-C4'-O4'	5.75	115.99	109.10
35	BB	2615	U	O4'-C1'-N1	5.75	112.80	108.20
35	BB	2725	A	N1-C6-N6	5.75	122.05	118.60
1	AA	208	U	C1'-O4'-C4'	5.74	114.49	109.90
1	AA	295	C	O4'-C1'-C2'	5.74	112.77	107.60
1	AA	763	G	O4'-C1'-N9	5.74	112.80	108.20
1	AA	1389	C	N3-C2-O2	5.74	125.92	121.90
16	AP	70	ARG	CD-NE-CZ	5.74	131.64	123.60
35	BB	232	G	C5'-C4'-O4'	5.74	115.99	109.10
35	BB	373	U	N3-C4-O4	5.74	123.42	119.40
35	BB	506	G	P-O3'-C3'	5.74	126.59	119.70
35	BB	511	U	C6-N1-C2	-5.74	117.55	121.00
35	BB	709	U	N3-C4-C5	-5.74	111.15	114.60
35	BB	966	G	N3-C2-N2	5.74	123.92	119.90
35	BB	1406	U	C5-C4-O4	-5.74	122.45	125.90
35	BB	2408	U	P-O3'-C3'	-5.74	112.81	119.70
35	BB	2499	C	C6-N1-C2	-5.74	118.00	120.30
39	BF	174	PHE	CB-CG-CD1	-5.74	116.78	120.80
1	AA	183	C	C4'-C3'-C2'	5.74	108.34	102.60
35	BB	37	C	C5-C4-N4	-5.74	116.18	120.20
35	BB	91	A	N3-C4-C5	-5.74	122.78	126.80
35	BB	431	U	C5-C6-N1	-5.74	119.83	122.70
35	BB	804	A	N9-C4-C5	-5.74	103.50	105.80
35	BB	1695	G	C6-N1-C2	-5.74	121.66	125.10
35	BB	2191	A	N9-C1'-C2'	-5.74	105.68	112.00
35	BB	2324	U	C4-C5-C6	5.74	123.14	119.70
35	BB	2577	A	O5'-P-OP2	5.74	117.59	110.70
35	BB	2747	G	O4'-C1'-N9	5.74	112.79	108.20
1	AA	181	A	C5-N7-C8	5.74	106.77	103.90
1	AA	1017	U	C2-N3-C4	-5.74	123.56	127.00
1	AA	1259	C	N3-C4-C5	-5.74	119.60	121.90
3	AC	191	THR	CA-CB-CG2	-5.74	104.36	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AO	62	ARG	NE-CZ-NH1	5.74	123.17	120.30
26	B1	49	ASP	CB-CG-OD2	5.74	123.47	118.30
35	BB	74	A	C5'-C4'-O4'	5.74	115.99	109.10
35	BB	199	A	C6-C5-N7	-5.74	128.28	132.30
35	BB	750	A	C5-C6-N1	-5.74	114.83	117.70
35	BB	1165	A	C5'-C4'-C3'	-5.74	106.81	116.00
35	BB	1950	G	C5-C6-O6	-5.74	125.16	128.60
35	BB	2046	G	C4-C5-C6	5.74	122.24	118.80
38	BE	39	ALA	CB-CA-C	-5.74	101.49	110.10
51	BR	55	ASP	CB-CG-OD2	-5.74	113.13	118.30
1	AA	858	G	P-O5'-C5'	5.74	130.08	120.90
1	AA	1009	U	N3-C4-C5	-5.74	111.16	114.60
1	AA	1364	U	C5-C6-N1	5.74	125.57	122.70
35	BB	335	C	C1'-O4'-C4'	-5.74	105.31	109.90
35	BB	341	C	C1'-O4'-C4'	-5.74	105.31	109.90
35	BB	723	C	C3'-C2'-C1'	5.74	106.09	101.50
35	BB	768	G	C5-C6-O6	-5.74	125.16	128.60
35	BB	1477	A	C6-C5-N7	-5.74	128.28	132.30
35	BB	1610	A	C5-N7-C8	-5.74	101.03	103.90
35	BB	1677	A	C8-N9-C4	-5.74	103.50	105.80
35	BB	2181	U	N1-C2-N3	5.74	118.34	114.90
35	BB	2634	A	P-O3'-C3'	-5.74	112.81	119.70
2	AB	31	PHE	CB-CG-CD1	5.74	124.82	120.80
35	BB	43	G	O4'-C1'-N9	5.74	112.79	108.20
35	BB	49	A	C2-N3-C4	-5.74	107.73	110.60
35	BB	330	A	O4'-C1'-N9	5.74	112.79	108.20
35	BB	1911	U	C4-C5-C6	-5.74	116.26	119.70
35	BB	2031	A	O4'-C1'-N9	5.74	112.79	108.20
46	BM	52	ALA	CB-CA-C	-5.74	101.49	110.10
1	AA	153	C	N3-C4-N4	5.74	122.02	118.00
1	AA	249	U	C6-N1-C2	5.74	124.44	121.00
1	AA	1433	A	C4-C5-N7	-5.74	107.83	110.70
35	BB	134	G	C5-N7-C8	-5.74	101.43	104.30
35	BB	246	C	C2-N3-C4	5.74	122.77	119.90
35	BB	564	C	C6-N1-C2	-5.74	118.01	120.30
35	BB	771	G	C6-C5-N7	-5.74	126.96	130.40
35	BB	1146	C	N3-C4-C5	-5.74	119.61	121.90
35	BB	1226	A	C6-C5-N7	-5.74	128.28	132.30
35	BB	1727	C	C2-N3-C4	5.74	122.77	119.90
35	BB	1816	C	C4-C5-C6	5.74	120.27	117.40
35	BB	2268	A	C6-N1-C2	5.74	122.04	118.60
35	BB	2532	G	P-O3'-C3'	-5.74	112.82	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	87	C	C4'-C3'-C2'	5.73	108.33	102.60
1	AA	566	G	N1-C6-O6	5.73	123.34	119.90
32	B7	6	VAL	N-CA-C	-5.73	95.52	111.00
35	BB	277	G	N1-C2-N3	-5.73	120.46	123.90
35	BB	352	A	N3-C4-C5	-5.73	122.79	126.80
35	BB	466	A	N7-C8-N9	-5.73	110.93	113.80
35	BB	494	G	C5-C6-N1	5.73	114.37	111.50
35	BB	774	G	C4-N9-C1'	5.73	133.95	126.50
35	BB	1645	G	C2-N3-C4	5.73	114.77	111.90
39	BF	4	HIS	CA-CB-CG	5.73	123.35	113.60
49	BP	52	ARG	NE-CZ-NH1	-5.73	117.43	120.30
1	AA	225	C	C4'-C3'-C2'	-5.73	96.87	102.60
1	AA	1000	A	N3-C4-C5	5.73	130.81	126.80
35	BB	1474	U	C3'-C2'-C1'	5.73	106.09	101.50
35	BB	1504	A	N9-C4-C5	-5.73	103.51	105.80
1	AA	208	U	N3-C4-O4	5.73	123.41	119.40
1	AA	406	G	C5-C6-O6	-5.73	125.16	128.60
1	AA	1022	A	N3-C4-C5	-5.73	122.79	126.80
1	AA	1136	C	C2-N1-C1'	5.73	125.10	118.80
1	AA	1498	U	O3'-P-O5'	-5.73	93.11	104.00
17	AQ	46	HIS	N-CA-CB	5.73	120.91	110.60
35	BB	777	G	N3-C4-N9	5.73	129.44	126.00
35	BB	1441	G	C4-N9-C1'	-5.73	119.05	126.50
35	BB	1723	G	N3-C2-N2	5.73	123.91	119.90
35	BB	1833	C	N1-C2-O2	5.73	122.34	118.90
35	BB	2050	C	O4'-C1'-N1	5.73	112.78	108.20
35	BB	2110	G	N3-C2-N2	5.73	123.91	119.90
35	BB	2472	G	N9-C4-C5	-5.73	103.11	105.40
35	BB	2704	C	C3'-C2'-C1'	5.73	106.08	101.50
35	BB	2719	G	C4-C5-C6	5.73	122.24	118.80
47	BN	63	ARG	NE-CZ-NH1	-5.73	117.44	120.30
1	AA	166	U	O5'-P-OP1	-5.73	100.54	105.70
1	AA	370	C	C4'-C3'-C2'	-5.73	96.87	102.60
1	AA	489	C	N1-C2-N3	-5.73	115.19	119.20
35	BB	1579	A	N9-C1'-C2'	-5.73	105.70	112.00
35	BB	2326	C	N3-C4-N4	5.73	122.01	118.00
35	BB	2876	G	P-O5'-C5'	-5.73	111.73	120.90
1	AA	68	G	N1-C2-N2	-5.73	111.05	116.20
1	AA	81	A	N3-C4-C5	-5.73	122.79	126.80
1	AA	232	G	N7-C8-N9	5.73	115.96	113.10
1	AA	988	G	P-O3'-C3'	-5.73	112.83	119.70
1	AA	1188	A	C4-C5-N7	5.73	113.56	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	AX	18	C	O4'-C1'-N1	5.73	112.78	108.20
35	BB	280	U	N3-C4-O4	5.73	123.41	119.40
35	BB	800	A	O4'-C1'-N9	5.73	112.78	108.20
35	BB	1131	G	P-O3'-C3'	5.73	126.57	119.70
35	BB	1136	G	O4'-C1'-N9	5.73	112.78	108.20
35	BB	1633	G	C6-N1-C2	5.73	128.54	125.10
35	BB	2259	U	C5-C4-O4	-5.73	122.46	125.90
35	BB	2283	C	O4'-C4'-C3'	-5.73	98.27	104.00
35	BB	2704	C	C5-C6-N1	-5.73	118.14	121.00
35	BB	2845	U	O4'-C1'-N1	5.73	112.78	108.20
1	AA	531	U	C2-N3-C4	5.73	130.44	127.00
1	AA	1386	G	C5-N7-C8	5.73	107.16	104.30
35	BB	234	U	C4'-C3'-C2'	-5.73	96.87	102.60
35	BB	754	U	O4'-C1'-N1	5.73	112.78	108.20
35	BB	2569	G	P-O3'-C3'	-5.73	112.83	119.70
1	AA	1376	U	N3-C4-O4	5.72	123.41	119.40
1	AA	1395	C	O4'-C1'-N1	5.72	112.78	108.20
34	BA	85	G	C4-C5-N7	5.72	113.09	110.80
35	BB	71	A	C5-C6-N1	-5.72	114.84	117.70
35	BB	121	G	C6-C5-N7	-5.72	126.97	130.40
35	BB	176	A	C1'-O4'-C4'	5.72	114.48	109.90
35	BB	711	G	C6-N1-C2	5.72	128.53	125.10
35	BB	1068	G	C5-C6-N1	-5.72	108.64	111.50
35	BB	1706	C	C2-N1-C1'	5.72	125.10	118.80
35	BB	1808	A	C4-C5-C6	5.72	119.86	117.00
35	BB	1827	U	C5-C4-O4	-5.72	122.47	125.90
35	BB	1905	C	O4'-C1'-N1	5.72	112.78	108.20
35	BB	1915	U	N3-C4-C5	5.72	118.03	114.60
1	AA	30	U	N1-C2-N3	-5.72	111.47	114.90
1	AA	180	U	C4-C5-C6	5.72	123.13	119.70
1	AA	342	C	N3-C4-C5	-5.72	119.61	121.90
1	AA	710	G	C5-N7-C8	5.72	107.16	104.30
1	AA	1468	A	C5'-C4'-O4'	-5.72	102.23	109.10
12	AL	74	GLN	N-CA-C	-5.72	95.55	111.00
34	BA	45	A	C5-C6-N1	-5.72	114.84	117.70
34	BA	105	G	OP1-P-OP2	-5.72	111.02	119.60
35	BB	90	U	N1-C1'-C2'	-5.72	105.70	112.00
35	BB	1039	A	N9-C4-C5	5.72	108.09	105.80
35	BB	1266	G	C6-N1-C2	-5.72	121.67	125.10
35	BB	1393	A	C6-N1-C2	5.72	122.03	118.60
35	BB	1498	C	C1'-O4'-C4'	5.72	114.48	109.90
35	BB	1601	G	N3-C4-N9	5.72	129.43	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1862	G	C4-N9-C1'	-5.72	119.06	126.50
35	BB	1947	C	C5-C4-N4	-5.72	116.19	120.20
35	BB	2037	A	P-O3'-C3'	-5.72	112.83	119.70
35	BB	2330	G	C5-C6-O6	-5.72	125.17	128.60
41	BH	68	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	AA	385	C	C5-C6-N1	5.72	123.86	121.00
35	BB	56	A	N1-C2-N3	5.72	132.16	129.30
35	BB	1334	G	N7-C8-N9	5.72	115.96	113.10
35	BB	2558	C	C4-C5-C6	-5.72	114.54	117.40
1	AA	253	A	N3-C4-C5	-5.72	122.80	126.80
1	AA	430	A	C4-C5-C6	5.72	119.86	117.00
1	AA	484	G	N1-C2-N2	-5.72	111.05	116.20
1	AA	755	G	N9-C4-C5	5.72	107.69	105.40
1	AA	776	G	C5-C6-O6	-5.72	125.17	128.60
22	AV	32	A	C5-N7-C8	5.72	106.76	103.90
35	BB	911	A	C3'-C2'-C1'	5.72	106.08	101.50
35	BB	1010	A	C8-N9-C4	-5.72	103.51	105.80
35	BB	1301	A	C5-C6-N6	-5.72	119.12	123.70
35	BB	1776	G	O4'-C1'-N9	5.72	112.78	108.20
35	BB	2395	C	C1'-O4'-C4'	5.72	114.48	109.90
40	BG	167	VAL	CA-CB-CG1	-5.72	102.32	110.90
1	AA	64	G	O4'-C1'-N9	5.72	112.77	108.20
1	AA	801	U	N1-C2-N3	-5.72	111.47	114.90
1	AA	803	G	P-O3'-C3'	-5.72	112.84	119.70
1	AA	840	C	N1-C2-O2	-5.72	115.47	118.90
1	AA	907	A	N9-C4-C5	5.72	108.09	105.80
1	AA	1289	A	N9-C4-C5	5.72	108.09	105.80
22	AV	42	G	O4'-C1'-N9	5.72	112.77	108.20
35	BB	1005	C	C3'-C2'-C1'	-5.72	96.93	101.50
35	BB	1280	G	N1-C6-O6	5.72	123.33	119.90
35	BB	1543	G	O4'-C1'-N9	5.72	112.77	108.20
1	AA	167	A	C4'-C3'-C2'	-5.72	96.88	102.60
1	AA	306	A	N3-C4-C5	-5.72	122.80	126.80
1	AA	1033	G	C8-N9-C4	-5.72	104.11	106.40
1	AA	1062	U	N3-C4-C5	-5.72	111.17	114.60
1	AA	1323	G	C5-C6-O6	-5.72	125.17	128.60
6	AF	59	TYR	O-C-N	5.72	131.84	122.70
35	BB	18	U	N3-C4-O4	5.72	123.40	119.40
35	BB	204	A	C2-N3-C4	5.72	113.46	110.60
35	BB	862	G	N3-C2-N2	5.72	123.90	119.90
35	BB	1166	G	O4'-C1'-N9	5.72	112.77	108.20
35	BB	1521	G	C4-C5-N7	5.72	113.09	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1585	C	N1-C2-N3	-5.72	115.20	119.20
35	BB	2199	A	C4-C5-C6	5.72	119.86	117.00
35	BB	2217	G	N7-C8-N9	-5.72	110.24	113.10
1	AA	215	C	C6-N1-C2	-5.71	118.01	120.30
1	AA	256	U	OP1-P-OP2	-5.71	111.03	119.60
35	BB	416	U	C4-C5-C6	-5.71	116.27	119.70
35	BB	730	A	C8-N9-C4	-5.71	103.51	105.80
35	BB	865	C	C5-C4-N4	-5.71	116.20	120.20
35	BB	1009	A	C4-C5-C6	5.71	119.86	117.00
35	BB	2181	U	C6-N1-C2	-5.71	117.57	121.00
35	BB	2321	U	C2-N1-C1'	5.71	124.56	117.70
35	BB	2462	C	N3-C4-C5	-5.71	119.61	121.90
35	BB	2631	G	C5-C6-N1	5.71	114.36	111.50
34	BA	71	C	C2-N1-C1'	5.71	125.08	118.80
35	BB	1341	G	N3-C4-C5	-5.71	125.74	128.60
35	BB	1431	A	N3-C4-N9	5.71	131.97	127.40
35	BB	1862	G	O4'-C1'-N9	5.71	112.77	108.20
1	AA	55	A	C5-C6-N6	-5.71	119.13	123.70
1	AA	172	A	O4'-C1'-N9	5.71	112.77	108.20
1	AA	365	U	C4'-C3'-C2'	5.71	108.31	102.60
1	AA	1292	G	C6-C5-N7	-5.71	126.97	130.40
35	BB	56	A	C6-C5-N7	-5.71	128.30	132.30
35	BB	123	G	N3-C2-N2	5.71	123.90	119.90
35	BB	138	U	C5-C4-O4	-5.71	122.47	125.90
35	BB	685	A	C2-N3-C4	-5.71	107.75	110.60
35	BB	2181	U	C5-C4-O4	-5.71	122.47	125.90
35	BB	2287	A	C3'-C2'-C1'	-5.71	96.93	101.50
50	BQ	12	ARG	NE-CZ-NH2	5.71	123.16	120.30
1	AA	446	G	N7-C8-N9	5.71	115.95	113.10
1	AA	1356	G	N1-C6-O6	5.71	123.33	119.90
35	BB	536	G	N7-C8-N9	-5.71	110.25	113.10
35	BB	1559	U	N3-C4-C5	-5.71	111.17	114.60
35	BB	2206	C	C5-C6-N1	5.71	123.86	121.00
35	BB	2622	U	C4-C5-C6	-5.71	116.27	119.70
35	BB	2899	A	C8-N9-C4	-5.71	103.52	105.80
36	BC	169	ALA	CB-CA-C	5.71	118.66	110.10
1	AA	1088	G	N3-C2-N2	5.71	123.90	119.90
1	AA	1329	A	O4'-C4'-C3'	-5.71	98.29	104.00
10	AJ	66	GLU	N-CA-CB	5.71	120.88	110.60
34	BA	89	U	N1-C1'-C2'	-5.71	105.72	112.00
35	BB	962	G	C4'-C3'-C2'	-5.71	96.89	102.60
35	BB	1812	U	O4'-C4'-C3'	-5.71	98.29	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2072	C	C5-C4-N4	-5.71	116.20	120.20
35	BB	2439	A	O4'-C1'-N9	5.71	112.77	108.20
1	AA	544	G	C4-C5-N7	5.71	113.08	110.80
1	AA	713	G	N1-C2-N3	-5.71	120.48	123.90
1	AA	1315	U	C2-N3-C4	-5.71	123.58	127.00
4	AD	154	VAL	CA-CB-CG2	-5.71	102.34	110.90
14	AN	35	ALA	CB-CA-C	-5.71	101.54	110.10
35	BB	143	C	N1-C2-O2	5.71	122.32	118.90
35	BB	327	G	N3-C2-N2	5.71	123.89	119.90
35	BB	1444	G	C6-C5-N7	-5.71	126.98	130.40
35	BB	1984	G	N3-C2-N2	5.71	123.89	119.90
35	BB	2168	G	C6-N1-C2	5.71	128.52	125.10
35	BB	2307	G	C3'-C2'-C1'	-5.71	96.94	101.50
35	BB	2467	C	N1-C2-N3	-5.71	115.20	119.20
35	BB	2511	U	O4'-C1'-N1	5.71	112.77	108.20
38	BE	59	PRO	O-C-N	5.71	131.83	122.70
1	AA	856	C	O4'-C1'-N1	5.71	112.76	108.20
1	AA	1319	A	C5'-C4'-O4'	5.71	115.95	109.10
3	AC	14	VAL	N-CA-C	-5.71	95.60	111.00
34	BA	76	G	N3-C4-C5	-5.71	125.75	128.60
35	BB	431	U	C4'-C3'-C2'	-5.71	96.89	102.60
35	BB	616	A	C8-N9-C4	-5.71	103.52	105.80
35	BB	783	A	N9-C1'-C2'	-5.71	105.72	112.00
35	BB	808	G	N7-C8-N9	5.71	115.95	113.10
35	BB	2015	A	C2-N3-C4	-5.71	107.75	110.60
35	BB	2265	U	C5-C4-O4	-5.71	122.48	125.90
1	AA	36	C	C2-N3-C4	5.70	122.75	119.90
1	AA	214	C	C3'-C2'-C1'	5.70	106.06	101.50
1	AA	278	G	C2-N3-C4	5.70	114.75	111.90
1	AA	870	U	C5-C6-N1	-5.70	119.85	122.70
22	AV	7	G	P-O5'-C5'	5.70	130.02	120.90
22	AV	26	A	O4'-C1'-N9	5.70	112.76	108.20
35	BB	620	G	C6-C5-N7	-5.70	126.98	130.40
35	BB	969	G	C8-N9-C1'	5.70	134.41	127.00
36	BC	202	ARG	NH1-CZ-NH2	-5.70	113.12	119.40
1	AA	1083	U	C1'-O4'-C4'	5.70	114.46	109.90
12	AL	112	ALA	N-CA-CB	5.70	118.08	110.10
35	BB	21	A	N1-C6-N6	5.70	122.02	118.60
35	BB	1287	A	C8-N9-C4	-5.70	103.52	105.80
35	BB	2302	U	N3-C4-C5	-5.70	111.18	114.60
35	BB	2777	G	N9-C4-C5	-5.70	103.12	105.40
1	AA	170	U	C5-C6-N1	5.70	125.55	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	191	G	OP1-P-OP2	-5.70	111.05	119.60
1	AA	484	G	C6-C5-N7	-5.70	126.98	130.40
18	AR	50	TYR	CZ-CE2-CD2	-5.70	114.67	119.80
35	BB	363	G	C4-N9-C1'	5.70	133.91	126.50
35	BB	458	G	C5-C6-O6	-5.70	125.18	128.60
35	BB	935	C	N3-C4-N4	5.70	121.99	118.00
35	BB	1025	G	C5'-C4'-C3'	-5.70	106.88	116.00
35	BB	1156	A	C5-C6-N1	-5.70	114.85	117.70
35	BB	1264	A	C5-C6-N1	-5.70	114.85	117.70
35	BB	1506	U	N3-C4-O4	5.70	123.39	119.40
35	BB	1632	A	C5-C6-N1	-5.70	114.85	117.70
35	BB	1939	U	C5-C6-N1	-5.70	119.85	122.70
35	BB	2022	U	N3-C4-O4	5.70	123.39	119.40
35	BB	2319	G	N1-C2-N3	-5.70	120.48	123.90
35	BB	2624	G	C4'-C3'-C2'	-5.70	96.90	102.60
35	BB	2820	A	N3-C4-N9	5.70	131.96	127.40
1	AA	28	A	C5-N7-C8	5.70	106.75	103.90
1	AA	128	G	C4-C5-C6	5.70	122.22	118.80
1	AA	271	C	N3-C2-O2	5.70	125.89	121.90
1	AA	559	A	C5-C6-N1	-5.70	114.85	117.70
1	AA	1443	C	N3-C4-N4	5.70	121.99	118.00
22	AV	16	C	N3-C4-C5	-5.70	119.62	121.90
28	B3	51	ARG	NH1-CZ-NH2	-5.70	113.13	119.40
35	BB	236	C	N3-C4-C5	-5.70	119.62	121.90
35	BB	286	U	OP2-P-O3'	5.70	117.74	105.20
35	BB	401	A	O4'-C4'-C3'	-5.70	98.30	104.00
35	BB	933	A	O3'-P-O5'	-5.70	93.17	104.00
35	BB	1277	G	N3-C4-N9	-5.70	122.58	126.00
35	BB	1962	C	P-O3'-C3'	-5.70	112.86	119.70
35	BB	2466	C	O5'-P-OP2	-5.70	100.57	105.70
35	BB	2880	C	P-O5'-C5'	5.70	130.02	120.90
1	AA	166	U	P-O3'-C3'	-5.70	112.86	119.70
1	AA	167	A	N3-C4-C5	-5.70	122.81	126.80
1	AA	699	C	C5-C4-N4	-5.70	116.21	120.20
1	AA	825	A	O4'-C1'-N9	5.70	112.76	108.20
12	AL	93	ARG	NH1-CZ-NH2	5.70	125.67	119.40
19	AS	43	MET	CG-SD-CE	-5.70	91.08	100.20
35	BB	421	C	C4-C5-C6	-5.70	114.55	117.40
35	BB	642	U	O4'-C1'-N1	5.70	112.76	108.20
35	BB	768	G	O4'-C1'-N9	5.70	112.76	108.20
35	BB	1359	A	C4'-C3'-C2'	-5.70	96.90	102.60
45	BL	95	LEU	CB-CG-CD2	5.70	120.68	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	196	A	C4-C5-C6	5.70	119.85	117.00
1	AA	198	G	C1'-O4'-C4'	5.70	114.46	109.90
1	AA	266	G	O4'-C1'-N9	5.70	112.76	108.20
1	AA	400	C	N1-C2-O2	5.70	122.32	118.90
1	AA	682	G	C5-N7-C8	5.70	107.15	104.30
1	AA	959	A	O4'-C1'-N9	5.70	112.76	108.20
1	AA	1174	G	P-O5'-C5'	-5.70	111.79	120.90
1	AA	1332	A	C5-N7-C8	5.70	106.75	103.90
1	AA	1410	A	O4'-C1'-C2'	5.70	112.73	107.60
3	AC	21	TRP	CZ3-CH2-CZ2	5.70	128.44	121.60
35	BB	1012	U	C2-N1-C1'	5.70	124.53	117.70
35	BB	1794	A	C4-C5-N7	-5.70	107.85	110.70
35	BB	1932	A	C4-C5-C6	5.70	119.85	117.00
35	BB	2194	U	O4'-C1'-N1	5.70	112.76	108.20
35	BB	2501	C	C4-C5-C6	5.70	120.25	117.40
1	AA	106	C	C5-C4-N4	-5.69	116.21	120.20
1	AA	791	G	N9-C1'-C2'	5.69	121.40	114.00
1	AA	1319	A	P-O3'-C3'	5.69	126.53	119.70
35	BB	1073	A	N7-C8-N9	-5.69	110.95	113.80
35	BB	1121	C	C2-N3-C4	5.69	122.75	119.90
35	BB	1527	G	C6-C5-N7	-5.69	126.98	130.40
35	BB	1654	A	O5'-P-OP2	-5.69	100.58	105.70
35	BB	2158	A	C6-C5-N7	-5.69	128.31	132.30
38	BE	44	ARG	NE-CZ-NH1	-5.69	117.45	120.30
1	AA	934	C	C1'-O4'-C4'	5.69	114.45	109.90
1	AA	1045	C	O4'-C1'-N1	5.69	112.75	108.20
35	BB	904	G	C4-C5-C6	5.69	122.22	118.80
35	BB	939	G	C6-C5-N7	-5.69	126.98	130.40
35	BB	1299	G	P-O3'-C3'	5.69	126.53	119.70
35	BB	1887	C	O4'-C1'-N1	5.69	112.75	108.20
35	BB	2244	U	C2-N1-C1'	5.69	124.53	117.70
35	BB	2246	G	N1-C2-N3	-5.69	120.48	123.90
35	BB	2632	A	N7-C8-N9	-5.69	110.95	113.80
1	AA	886	G	C2-N3-C4	-5.69	109.05	111.90
34	BA	105	G	C8-N9-C4	5.69	108.68	106.40
34	BA	113	C	C6-N1-C2	-5.69	118.02	120.30
35	BB	58	G	N3-C4-N9	5.69	129.41	126.00
35	BB	597	G	N1-C6-O6	5.69	123.31	119.90
35	BB	743	A	O4'-C1'-N9	5.69	112.75	108.20
35	BB	1007	C	C5-C6-N1	5.69	123.85	121.00
35	BB	1149	G	OP1-P-OP2	-5.69	111.06	119.60
35	BB	1299	G	OP1-P-OP2	-5.69	111.06	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	1552	A	N3-C4-N9	5.69	131.95	127.40
35	BB	2184	A	C5-N7-C8	5.69	106.75	103.90
35	BB	2350	C	C4-C5-C6	5.69	120.25	117.40
35	BB	2522	U	C3'-C2'-C1'	5.69	106.05	101.50
35	BB	2555	U	N3-C2-O2	5.69	126.18	122.20
35	BB	2614	A	O4'-C1'-N9	5.69	112.75	108.20
35	BB	2688	G	N3-C2-N2	5.69	123.88	119.90
35	BB	2810	A	N3-C4-C5	-5.69	122.82	126.80
35	BB	2883	A	N1-C2-N3	5.69	132.15	129.30
1	AA	277	C	C1'-O4'-C4'	-5.69	105.35	109.90
1	AA	1114	C	N3-C4-N4	5.69	121.98	118.00
1	AA	1514	G	O4'-C1'-N9	5.69	112.75	108.20
35	BB	409	G	C6-N1-C2	-5.69	121.69	125.10
35	BB	814	C	N3-C4-N4	5.69	121.98	118.00
35	BB	989	G	O4'-C1'-C2'	-5.69	100.11	105.80
35	BB	1732	C	C3'-C2'-C1'	-5.69	96.95	101.50
35	BB	2116	G	C5-C6-O6	-5.69	125.19	128.60
35	BB	2849	U	C2-N3-C4	5.69	130.41	127.00
1	AA	211	G	C4-N9-C1'	5.69	133.89	126.50
1	AA	510	A	N9-C4-C5	5.69	108.08	105.80
1	AA	586	C	N3-C2-O2	5.69	125.88	121.90
1	AA	1015	G	C4-N9-C1'	5.69	133.89	126.50
1	AA	1032	G	C4'-C3'-C2'	-5.69	96.91	102.60
19	AS	25	GLY	N-CA-C	-5.69	98.88	113.10
22	AV	25	C	N3-C4-C5	-5.69	119.62	121.90
35	BB	611	C	O4'-C1'-N1	5.69	112.75	108.20
35	BB	751	A	O4'-C1'-N9	5.69	112.75	108.20
35	BB	1053	C	C1'-O4'-C4'	-5.69	105.35	109.90
35	BB	1063	G	N1-C6-O6	5.69	123.31	119.90
35	BB	1257	C	C2-N3-C4	5.69	122.74	119.90
35	BB	1571	A	N9-C4-C5	-5.69	103.53	105.80
35	BB	1606	C	N3-C4-N4	5.69	121.98	118.00
35	BB	1613	G	N3-C4-N9	-5.69	122.59	126.00
35	BB	1704	C	C5-C4-N4	-5.69	116.22	120.20
35	BB	1895	C	C5'-C4'-C3'	-5.69	106.90	116.00
35	BB	2044	C	P-O3'-C3'	-5.69	112.88	119.70
35	BB	2149	U	O4'-C4'-C3'	-5.69	98.31	104.00
35	BB	2410	G	N3-C4-N9	5.69	129.41	126.00
35	BB	2619	C	C5'-C4'-C3'	-5.69	106.90	116.00
35	BB	2647	U	N3-C4-C5	-5.69	111.19	114.60
35	BB	2654	A	N1-C2-N3	5.69	132.14	129.30
50	BQ	31	TYR	CB-CG-CD1	-5.69	117.59	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	21	G	N1-C2-N2	-5.69	111.08	116.20
35	BB	216	A	P-O3'-C3'	5.69	126.52	119.70
35	BB	440	C	C2-N3-C4	5.69	122.74	119.90
35	BB	581	C	N3-C2-O2	-5.69	117.92	121.90
35	BB	1653	G	C5-C6-O6	-5.69	125.19	128.60
35	BB	2834	G	N1-C6-O6	5.69	123.31	119.90
1	AA	386	C	N1-C2-N3	5.68	123.18	119.20
1	AA	446	G	N3-C4-N9	5.68	129.41	126.00
1	AA	459	A	C6-C5-N7	-5.68	128.32	132.30
1	AA	728	A	C5'-C4'-O4'	5.68	115.92	109.10
1	AA	937	A	C4-C5-C6	5.68	119.84	117.00
1	AA	1215	G	O5'-P-OP2	-5.68	100.58	105.70
1	AA	1430	A	C4-C5-C6	5.68	119.84	117.00
22	AV	45	G	O4'-C1'-N9	5.68	112.75	108.20
34	BA	101	A	N1-C2-N3	5.68	132.14	129.30
35	BB	785	G	C4-C5-C6	5.68	122.21	118.80
35	BB	902	C	C5-C4-N4	-5.68	116.22	120.20
35	BB	1133	A	N1-C2-N3	-5.68	126.46	129.30
35	BB	1210	G	C4-C5-C6	5.68	122.21	118.80
35	BB	1529	G	C5-C6-O6	-5.68	125.19	128.60
35	BB	1672	A	C2-N3-C4	-5.68	107.76	110.60
35	BB	1702	G	N3-C2-N2	5.68	123.88	119.90
35	BB	2038	G	O4'-C1'-N9	5.68	112.75	108.20
35	BB	2134	A	C5-C6-N1	-5.68	114.86	117.70
35	BB	2328	A	C6-N1-C2	-5.68	115.19	118.60
35	BB	2346	A	N7-C8-N9	5.68	116.64	113.80
35	BB	2446	G	N9-C4-C5	-5.68	103.13	105.40
35	BB	2530	A	O4'-C1'-N9	5.68	112.75	108.20
1	AA	303	A	C4-C5-C6	5.68	119.84	117.00
1	AA	344	A	C3'-C2'-C1'	5.68	106.05	101.50
1	AA	654	G	O5'-P-OP1	5.68	117.52	110.70
1	AA	1225	A	O4'-C1'-C2'	-5.68	100.12	105.80
2	AB	133	ALA	CB-CA-C	-5.68	101.58	110.10
3	AC	19	SER	N-CA-CB	5.68	119.03	110.50
35	BB	975	A	C5-N7-C8	5.68	106.74	103.90
35	BB	1361	G	C5-N7-C8	-5.68	101.46	104.30
35	BB	1839	G	C4-C5-C6	5.68	122.21	118.80
35	BB	2250	G	C4-C5-C6	5.68	122.21	118.80
35	BB	2524	G	C5-C6-O6	-5.68	125.19	128.60
35	BB	2613	U	P-O3'-C3'	5.68	126.52	119.70
35	BB	2680	U	C6-N1-C2	-5.68	117.59	121.00
35	BB	2708	G	C4'-C3'-C2'	-5.68	96.92	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2823	A	C3'-C2'-C1'	5.68	106.05	101.50
35	BB	2887	A	C5-C6-N6	-5.68	119.15	123.70
1	AA	62	U	C2-N3-C4	5.68	130.41	127.00
1	AA	973	G	N1-C2-N3	-5.68	120.49	123.90
3	AC	30	ASP	CB-CG-OD1	5.68	123.41	118.30
35	BB	1165	A	C4-C5-C6	5.68	119.84	117.00
35	BB	1247	A	N7-C8-N9	5.68	116.64	113.80
35	BB	1389	G	N1-C2-N2	-5.68	111.09	116.20
1	AA	211	G	N3-C2-N2	5.68	123.88	119.90
1	AA	265	G	C5-C6-O6	-5.68	125.19	128.60
1	AA	348	G	P-O5'-C5'	5.68	129.99	120.90
1	AA	927	G	C5-C6-O6	-5.68	125.19	128.60
1	AA	1060	U	C4'-C3'-C2'	-5.68	96.92	102.60
34	BA	72	G	N7-C8-N9	5.68	115.94	113.10
35	BB	382	A	C5-C6-N6	-5.68	119.16	123.70
35	BB	1044	C	N3-C2-O2	5.68	125.88	121.90
35	BB	1324	G	N9-C4-C5	-5.68	103.13	105.40
35	BB	1470	A	C2-N3-C4	-5.68	107.76	110.60
35	BB	1487	U	C6-N1-C2	-5.68	117.59	121.00
35	BB	2149	U	C4-C5-C6	-5.68	116.29	119.70
35	BB	2415	G	N1-C2-N2	-5.68	111.09	116.20
35	BB	2532	G	N3-C4-C5	5.68	131.44	128.60
35	BB	2692	G	C8-N9-C4	-5.68	104.13	106.40
35	BB	2801	G	N1-C6-O6	5.68	123.31	119.90
49	BP	14	GLN	N-CA-CB	5.68	120.82	110.60
34	BA	62	C	N3-C4-C5	-5.68	119.63	121.90
35	BB	224	U	C6-N1-C2	5.68	124.41	121.00
35	BB	363	G	N1-C2-N3	5.68	127.31	123.90
35	BB	596	U	C5-C6-N1	5.68	125.54	122.70
35	BB	796	C	N3-C4-N4	5.68	121.97	118.00
35	BB	1627	G	N9-C1'-C2'	-5.68	105.75	112.00
35	BB	2118	U	O4'-C4'-C3'	5.68	110.64	106.10
35	BB	2230	G	N1-C2-N3	-5.68	120.49	123.90
1	AA	401	C	C5-C4-N4	-5.68	116.23	120.20
1	AA	540	G	P-O3'-C3'	-5.68	112.89	119.70
1	AA	857	C	C5-C6-N1	-5.68	118.16	121.00
1	AA	947	G	C4-C5-C6	5.68	122.21	118.80
1	AA	1090	U	C2-N3-C4	5.68	130.41	127.00
1	AA	1519	A	C5-C6-N6	-5.68	119.16	123.70
13	AM	109	LYS	CB-CA-C	-5.68	99.05	110.40
35	BB	43	G	N3-C4-N9	5.68	129.41	126.00
35	BB	404	A	N3-C4-N9	5.68	131.94	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	720	U	O4'-C1'-N1	5.68	112.74	108.20
35	BB	757	G	C5-C6-N1	5.68	114.34	111.50
35	BB	1199	U	N1-C2-N3	-5.68	111.49	114.90
35	BB	1336	A	C8-N9-C4	-5.68	103.53	105.80
35	BB	1360	G	C4-C5-C6	-5.68	115.39	118.80
35	BB	1595	C	C3'-C2'-C1'	-5.68	96.96	101.50
35	BB	1988	G	C5-N7-C8	5.68	107.14	104.30
35	BB	2286	G	C6-N1-C2	5.68	128.51	125.10
1	AA	366	A	N7-C8-N9	-5.67	110.96	113.80
1	AA	485	U	P-O5'-C5'	5.67	129.98	120.90
1	AA	558	G	C6-N1-C2	5.67	128.50	125.10
1	AA	1286	U	C5-C6-N1	-5.67	119.86	122.70
1	AA	1450	U	C2-N3-C4	-5.67	123.59	127.00
1	AA	1468	A	N3-C4-C5	-5.67	122.83	126.80
2	AB	122	ASP	CB-CG-OD1	5.67	123.41	118.30
22	AV	12	G	O4'-C1'-N9	5.67	112.74	108.20
34	BA	84	G	N1-C6-O6	5.67	123.31	119.90
34	BA	112	G	N7-C8-N9	5.67	115.94	113.10
35	BB	1111	A	P-O3'-C3'	5.67	126.51	119.70
35	BB	1395	A	O4'-C1'-N9	5.67	112.74	108.20
35	BB	2077	A	C2-N3-C4	5.67	113.44	110.60
1	AA	1433	A	C5-N7-C8	5.67	106.74	103.90
35	BB	663	G	C5-C6-O6	-5.67	125.20	128.60
35	BB	1171	G	C4-C5-N7	5.67	113.07	110.80
35	BB	1706	C	C5'-C4'-C3'	-5.67	106.92	116.00
1	AA	499	A	C1'-O4'-C4'	5.67	114.44	109.90
1	AA	763	G	C5-C6-O6	-5.67	125.20	128.60
35	BB	811	U	O4'-C1'-N1	5.67	112.74	108.20
35	BB	956	G	N1-C2-N2	-5.67	111.09	116.20
35	BB	1405	U	N1-C2-N3	-5.67	111.50	114.90
35	BB	1975	G	N9-C4-C5	-5.67	103.13	105.40
35	BB	1988	G	C6-N1-C2	-5.67	121.70	125.10
35	BB	2003	A	N9-C4-C5	5.67	108.07	105.80
35	BB	2239	G	C2-N3-C4	5.67	114.74	111.90
2	AB	21	TYR	N-CA-CB	5.67	120.81	110.60
34	BA	55	U	C4-C5-C6	5.67	123.10	119.70
35	BB	330	A	C6-C5-N7	-5.67	128.33	132.30
35	BB	632	A	N9-C4-C5	5.67	108.07	105.80
35	BB	691	C	N3-C4-C5	-5.67	119.63	121.90
35	BB	2059	A	C5-N7-C8	5.67	106.73	103.90
35	BB	2765	A	O4'-C1'-N9	5.67	112.74	108.20
35	BB	2897	U	C5-C4-O4	-5.67	122.50	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	233	C	C6-N1-C2	-5.67	118.03	120.30
1	AA	448	A	C5-C6-N1	-5.67	114.87	117.70
1	AA	619	U	C4-C5-C6	5.67	123.10	119.70
1	AA	807	A	C6-N1-C2	5.67	122.00	118.60
1	AA	1044	A	C6-C5-N7	-5.67	128.33	132.30
1	AA	1123	U	N3-C4-O4	5.67	123.37	119.40
1	AA	1318	A	N3-C4-C5	-5.67	122.83	126.80
1	AA	1340	A	C5-N7-C8	5.67	106.73	103.90
1	AA	1395	C	P-O3'-C3'	5.67	126.50	119.70
2	AB	124	THR	OG1-CB-CG2	-5.67	96.96	110.00
31	B6	19	ARG	NH1-CZ-NH2	-5.67	113.16	119.40
35	BB	71	A	C4'-C3'-C2'	5.67	108.27	102.60
35	BB	930	G	P-O3'-C3'	5.67	126.50	119.70
35	BB	937	C	C5-C4-N4	-5.67	116.23	120.20
35	BB	958	U	C4-C5-C6	5.67	123.10	119.70
35	BB	1159	U	N3-C4-C5	-5.67	111.20	114.60
35	BB	1290	C	C2-N3-C4	5.67	122.73	119.90
35	BB	2102	G	N3-C2-N2	5.67	123.87	119.90
1	AA	440	C	C4-C5-C6	5.67	120.23	117.40
1	AA	713	G	C5-N7-C8	-5.67	101.47	104.30
1	AA	1030	U	O4'-C1'-N1	5.67	112.73	108.20
1	AA	1164	G	C5-C6-O6	-5.67	125.20	128.60
28	B3	10	SER	N-CA-CB	5.67	119.00	110.50
34	BA	84	G	C5-N7-C8	-5.67	101.47	104.30
35	BB	223	A	N7-C8-N9	5.67	116.63	113.80
35	BB	444	C	C4'-C3'-C2'	-5.67	96.93	102.60
35	BB	1037	G	C2-N3-C4	-5.67	109.07	111.90
35	BB	1374	G	C5-C6-N1	-5.67	108.67	111.50
35	BB	1710	G	C5'-C4'-O4'	5.67	115.90	109.10
35	BB	2051	A	O4'-C1'-N9	5.67	112.73	108.20
35	BB	2856	A	N3-C4-N9	5.67	131.93	127.40
35	BB	15	G	C4-C5-N7	5.67	113.07	110.80
35	BB	923	G	C8-N9-C4	5.67	108.67	106.40
35	BB	1090	A	C5-C6-N6	-5.67	119.17	123.70
35	BB	1306	C	P-O3'-C3'	-5.67	112.90	119.70
35	BB	1386	C	C2-N3-C4	5.67	122.73	119.90
35	BB	2703	C	N3-C4-N4	5.67	121.97	118.00
1	AA	27	G	N1-C2-N3	-5.66	120.50	123.90
1	AA	198	G	C2-N3-C4	5.66	114.73	111.90
1	AA	229	U	O4'-C1'-N1	5.66	112.73	108.20
1	AA	319	G	C2-N3-C4	-5.66	109.07	111.90
1	AA	368	U	N1-C2-N3	5.66	118.30	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	756	C	N1-C2-O2	-5.66	115.50	118.90
1	AA	1080	A	C5-C6-N1	-5.66	114.87	117.70
34	BA	32	U	C4-C5-C6	-5.66	116.30	119.70
34	BA	79	G	N7-C8-N9	5.66	115.93	113.10
35	BB	36	G	N9-C4-C5	5.66	107.67	105.40
35	BB	430	A	C1'-O4'-C4'	5.66	114.43	109.90
35	BB	1227	G	C6-C5-N7	-5.66	127.00	130.40
35	BB	1279	G	C4-C5-C6	5.66	122.20	118.80
35	BB	1681	G	P-O3'-C3'	-5.66	112.90	119.70
35	BB	1988	G	N9-C4-C5	-5.66	103.13	105.40
35	BB	2053	G	C5-N7-C8	5.66	107.13	104.30
35	BB	2389	G	C6-N1-C2	-5.66	121.70	125.10
35	BB	2425	A	N7-C8-N9	5.66	116.63	113.80
35	BB	2464	G	C5-C6-N1	-5.66	108.67	111.50
1	AA	134	G	N9-C4-C5	-5.66	103.14	105.40
1	AA	743	A	C6-N1-C2	-5.66	115.20	118.60
1	AA	1020	G	N9-C4-C5	5.66	107.67	105.40
1	AA	1245	C	C1'-O4'-C4'	-5.66	105.37	109.90
1	AA	1358	U	P-O3'-C3'	-5.66	112.91	119.70
35	BB	1475	G	C6-C5-N7	-5.66	127.00	130.40
35	BB	2270	A	C6-N1-C2	-5.66	115.20	118.60
39	BF	174	PHE	N-CA-C	-5.66	95.71	111.00
1	AA	156	C	N1-C2-N3	5.66	123.16	119.20
8	AH	98	LEU	CB-CG-CD2	5.66	120.62	111.00
8	AH	121	GLY	N-CA-C	-5.66	98.95	113.10
22	AV	57	A	C5-C6-N6	-5.66	119.17	123.70
35	BB	172	A	C5'-C4'-O4'	5.66	115.89	109.10
35	BB	205	G	N1-C6-O6	5.66	123.30	119.90
35	BB	385	C	N3-C2-O2	5.66	125.86	121.90
35	BB	849	A	C5-C6-N6	-5.66	119.17	123.70
35	BB	931	U	P-O3'-C3'	5.66	126.49	119.70
35	BB	960	A	C5-C6-N6	-5.66	119.17	123.70
35	BB	1112	G	N1-C2-N3	-5.66	120.50	123.90
35	BB	1275	A	C4-C5-N7	-5.66	107.87	110.70
35	BB	2059	A	C8-N9-C4	5.66	108.06	105.80
35	BB	2142	A	C2-N3-C4	-5.66	107.77	110.60
35	BB	2543	G	N7-C8-N9	5.66	115.93	113.10
1	AA	208	U	C5-C6-N1	5.66	125.53	122.70
1	AA	1061	G	N1-C2-N3	-5.66	120.50	123.90
1	AA	1320	C	C6-N1-C2	-5.66	118.04	120.30
1	AA	1360	A	O5'-C5'-C4'	-5.66	100.95	111.70
22	AV	2	G	N7-C8-N9	5.66	115.93	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	300	A	C8-N9-C4	-5.66	103.54	105.80
35	BB	535	G	O4'-C1'-N9	5.66	112.73	108.20
35	BB	753	A	C5-C6-N1	-5.66	114.87	117.70
35	BB	2008	C	N3-C4-N4	5.66	121.96	118.00
35	BB	2679	A	C6-C5-N7	-5.66	128.34	132.30
1	AA	362	G	C1'-O4'-C4'	-5.66	105.37	109.90
30	B5	164	ARG	NE-CZ-NH2	-5.66	117.47	120.30
34	BA	52	A	C4'-C3'-C2'	-5.66	96.94	102.60
35	BB	322	A	C4-C5-N7	-5.66	107.87	110.70
35	BB	1032	A	N7-C8-N9	-5.66	110.97	113.80
35	BB	1794	A	N9-C1'-C2'	-5.66	105.78	112.00
35	BB	1823	G	P-O3'-C3'	-5.66	112.91	119.70
35	BB	1937	A	N1-C2-N3	-5.66	126.47	129.30
35	BB	2272	U	C5-C4-O4	-5.66	122.51	125.90
1	AA	388	G	C5'-C4'-O4'	5.66	115.89	109.10
1	AA	407	U	C5-C4-O4	-5.66	122.51	125.90
1	AA	607	A	C5-C6-N6	-5.66	119.18	123.70
1	AA	873	A	O4'-C1'-N9	5.66	112.72	108.20
1	AA	874	G	N1-C2-N2	5.66	121.29	116.20
1	AA	1175	G	N3-C2-N2	5.66	123.86	119.90
22	AV	14	A	C5-C6-N6	-5.66	119.18	123.70
35	BB	120	U	C4-C5-C6	5.66	123.09	119.70
35	BB	696	G	C5-C6-O6	5.66	131.99	128.60
35	BB	1002	G	N9-C4-C5	-5.66	103.14	105.40
35	BB	1991	U	C5-C4-O4	5.66	129.29	125.90
35	BB	2392	A	N9-C1'-C2'	-5.66	105.78	112.00
35	BB	2654	A	N7-C8-N9	5.66	116.63	113.80
1	AA	1065	U	C2-N3-C4	-5.65	123.61	127.00
1	AA	1135	U	O4'-C1'-N1	5.65	112.72	108.20
1	AA	1238	A	C5'-C4'-C3'	5.65	125.05	116.00
6	AF	61	LEU	CB-CA-C	5.65	120.94	110.20
19	AS	54	ARG	NE-CZ-NH2	-5.65	117.47	120.30
22	AV	61	C	N3-C4-N4	5.65	121.96	118.00
35	BB	302	C	C4-C5-C6	5.65	120.23	117.40
35	BB	407	G	C3'-C2'-C1'	5.65	106.02	101.50
35	BB	498	G	N1-C2-N3	-5.65	120.51	123.90
35	BB	2453	A	C4-C5-C6	5.65	119.83	117.00
35	BB	2745	C	N1-C2-N3	-5.65	115.24	119.20
1	AA	515	G	C4'-C3'-C2'	-5.65	96.95	102.60
1	AA	1207	G	C6-C5-N7	-5.65	127.01	130.40
1	AA	1392	G	C5-C6-N1	-5.65	108.67	111.50
35	BB	11	C	N1-C2-O2	5.65	122.29	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1702	G	C4-C5-N7	-5.65	108.54	110.80
35	BB	2636	C	N3-C4-C5	-5.65	119.64	121.90
35	BB	2782	G	C4-N9-C1'	5.65	133.85	126.50
1	AA	371	A	O4'-C1'-N9	5.65	112.72	108.20
1	AA	456	A	N7-C8-N9	5.65	116.62	113.80
1	AA	460	A	C8-N9-C4	5.65	108.06	105.80
1	AA	556	C	C2-N3-C4	5.65	122.72	119.90
1	AA	732	C	C5-C6-N1	5.65	123.83	121.00
1	AA	968	A	C4-N9-C1'	5.65	136.47	126.30
1	AA	1046	A	C5-C6-N1	-5.65	114.88	117.70
1	AA	1151	A	C6-C5-N7	-5.65	128.34	132.30
15	AO	71	ARG	NE-CZ-NH2	-5.65	117.47	120.30
34	BA	54	G	C6-C5-N7	-5.65	127.01	130.40
35	BB	637	A	N3-C4-C5	-5.65	122.84	126.80
35	BB	1600	C	C6-N1-C2	5.65	122.56	120.30
35	BB	1666	G	C4-N9-C1'	-5.65	119.16	126.50
35	BB	2090	A	C5-C6-N1	-5.65	114.88	117.70
1	AA	144	G	C1'-O4'-C4'	-5.65	105.38	109.90
1	AA	646	G	N3-C2-N2	5.65	123.85	119.90
1	AA	977	A	C5'-C4'-C3'	-5.65	106.96	116.00
1	AA	1252	A	C8-N9-C4	-5.65	103.54	105.80
35	BB	184	C	N1-C2-N3	-5.65	115.25	119.20
35	BB	282	A	N3-C4-N9	-5.65	122.88	127.40
35	BB	882	G	C5-C6-O6	-5.65	125.21	128.60
35	BB	1266	G	C2-N3-C4	5.65	114.72	111.90
35	BB	1347	A	C6-C5-N7	-5.65	128.35	132.30
35	BB	2109	U	C4'-C3'-C2'	-5.65	96.95	102.60
1	AA	32	A	C4-C5-N7	-5.65	107.88	110.70
1	AA	1189	U	P-O5'-C5'	5.65	129.94	120.90
31	B6	28	ARG	NE-CZ-NH1	-5.65	117.48	120.30
35	BB	1789	A	C5-C6-N1	-5.65	114.88	117.70
35	BB	2352	A	O4'-C1'-N9	5.65	112.72	108.20
35	BB	2400	G	C6-C5-N7	-5.65	127.01	130.40
1	AA	30	U	C1'-O4'-C4'	-5.65	105.38	109.90
1	AA	205	A	N9-C1'-C2'	-5.65	105.79	112.00
1	AA	363	A	C6-C5-N7	-5.65	128.35	132.30
1	AA	550	G	O4'-C1'-N9	5.65	112.72	108.20
1	AA	1175	G	C4-N9-C1'	-5.65	119.16	126.50
7	AG	100	MET	CG-SD-CE	-5.65	91.17	100.20
35	BB	186	G	C8-N9-C4	-5.65	104.14	106.40
35	BB	569	U	C5'-C4'-O4'	-5.65	102.33	109.10
35	BB	2104	C	C5-C6-N1	5.65	123.82	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2221	G	C4-C5-N7	5.65	113.06	110.80
1	AA	225	C	OP1-P-OP2	-5.64	111.13	119.60
1	AA	324	G	N9-C4-C5	-5.64	103.14	105.40
1	AA	429	U	O5'-P-OP1	5.64	117.47	110.70
1	AA	778	G	C5-C6-O6	-5.64	125.21	128.60
1	AA	941	G	O5'-P-OP1	5.64	117.47	110.70
1	AA	1468	A	C5-C6-N6	-5.64	119.19	123.70
34	BA	48	U	C3'-C2'-C1'	5.64	106.02	101.50
35	BB	24	G	C5-C6-O6	-5.64	125.21	128.60
35	BB	129	C	O3'-P-O5'	-5.64	93.28	104.00
35	BB	667	U	N1-C2-O2	-5.64	118.85	122.80
35	BB	882	G	C8-N9-C4	5.64	108.66	106.40
35	BB	1613	G	N3-C4-C5	5.64	131.42	128.60
35	BB	2481	G	C6-C5-N7	-5.64	127.01	130.40
35	BB	2755	C	P-O5'-C5'	-5.64	111.87	120.90
35	BB	2835	A	C4'-C3'-C2'	-5.64	96.95	102.60
1	AA	10	A	C4-N9-C1'	-5.64	116.14	126.30
1	AA	683	G	P-O5'-C5'	-5.64	111.87	120.90
1	AA	1222	G	C4-C5-C6	5.64	122.19	118.80
1	AA	1232	U	N1-C1'-C2'	-5.64	105.79	112.00
1	AA	1316	G	C4-C5-N7	-5.64	108.54	110.80
7	AG	79	VAL	N-CA-C	-5.64	95.76	111.00
35	BB	1094	U	C2-N3-C4	-5.64	123.61	127.00
35	BB	1144	A	C4-C5-N7	-5.64	107.88	110.70
35	BB	1309	G	O4'-C1'-N9	5.64	112.72	108.20
35	BB	2063	C	C5-C4-N4	-5.64	116.25	120.20
35	BB	2784	U	O4'-C1'-N1	5.64	112.71	108.20
36	BC	212	TRP	CA-CB-CG	5.64	124.42	113.70
35	BB	86	G	N9-C4-C5	5.64	107.66	105.40
35	BB	665	U	N3-C4-O4	5.64	123.35	119.40
35	BB	705	A	C5-C6-N1	-5.64	114.88	117.70
35	BB	2592	G	P-O3'-C3'	-5.64	112.93	119.70
1	AA	147	G	C4'-C3'-C2'	-5.64	96.96	102.60
1	AA	258	G	N1-C2-N3	-5.64	120.52	123.90
1	AA	566	G	C4-C5-N7	-5.64	108.54	110.80
1	AA	1423	G	C6-C5-N7	-5.64	127.02	130.40
3	AC	38	VAL	CA-CB-CG1	5.64	119.36	110.90
35	BB	1155	A	C5-N7-C8	5.64	106.72	103.90
35	BB	1301	A	N7-C8-N9	-5.64	110.98	113.80
35	BB	1380	G	C4'-C3'-C2'	-5.64	96.96	102.60
35	BB	1429	G	C8-N9-C4	-5.64	104.14	106.40
35	BB	2337	G	N3-C4-C5	-5.64	125.78	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2443	C	N3-C4-N4	5.64	121.95	118.00
1	AA	320	A	C8-N9-C4	5.64	108.06	105.80
6	AF	8	PHE	N-CA-CB	5.64	120.75	110.60
35	BB	219	A	N1-C6-N6	5.64	121.98	118.60
35	BB	1191	G	N3-C4-C5	-5.64	125.78	128.60
35	BB	2775	G	N3-C4-N9	5.64	129.38	126.00
1	AA	572	A	C4-C5-C6	5.64	119.82	117.00
1	AA	927	G	N9-C4-C5	-5.64	103.15	105.40
1	AA	1241	G	P-O3'-C3'	-5.64	112.94	119.70
1	AA	1436	U	N3-C4-C5	-5.64	111.22	114.60
34	BA	79	G	O4'-C1'-N9	5.64	112.71	108.20
35	BB	388	G	N3-C4-N9	-5.64	122.62	126.00
35	BB	603	A	C3'-C2'-C1'	-5.64	96.99	101.50
35	BB	909	A	N3-C4-N9	5.64	131.91	127.40
35	BB	954	G	C5-N7-C8	5.64	107.12	104.30
35	BB	1070	A	C5-C6-N1	-5.64	114.88	117.70
35	BB	1396	U	OP1-P-OP2	-5.64	111.14	119.60
35	BB	1935	G	C2-N3-C4	5.64	114.72	111.90
35	BB	2465	C	C2-N3-C4	5.64	122.72	119.90
35	BB	2872	A	C6-N1-C2	5.64	121.98	118.60
1	AA	913	A	C4-C5-C6	5.63	119.82	117.00
3	AC	126	ARG	NE-CZ-NH1	5.63	123.12	120.30
14	AN	42	ASN	CA-CB-CG	-5.63	101.00	113.40
35	BB	12	U	N3-C4-O4	5.63	123.34	119.40
35	BB	784	G	C6-N1-C2	5.63	128.48	125.10
35	BB	1809	A	O4'-C1'-N9	5.63	112.71	108.20
35	BB	1881	C	C2-N3-C4	5.63	122.72	119.90
35	BB	2163	A	N3-C4-C5	-5.63	122.86	126.80
35	BB	2228	G	C5'-C4'-O4'	5.63	115.86	109.10
45	BL	5	THR	CA-CB-CG2	-5.63	104.51	112.40
1	AA	701	U	N3-C4-C5	-5.63	111.22	114.60
35	BB	343	C	N3-C4-N4	5.63	121.94	118.00
35	BB	774	G	C5-N7-C8	-5.63	101.48	104.30
35	BB	1630	A	N3-C4-C5	-5.63	122.86	126.80
35	BB	1760	C	P-O3'-C3'	5.63	126.46	119.70
35	BB	2799	A	O4'-C4'-C3'	-5.63	98.37	104.00
1	AA	112	G	C5-C6-N1	-5.63	108.68	111.50
1	AA	207	C	C4-C5-C6	5.63	120.22	117.40
1	AA	679	C	C2-N3-C4	5.63	122.72	119.90
1	AA	1475	G	C5-C6-N1	-5.63	108.68	111.50
7	AG	115	MET	CG-SD-CE	-5.63	91.19	100.20
35	BB	141	G	C5-C6-N1	-5.63	108.69	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	725	G	C4-C5-N7	5.63	113.05	110.80
35	BB	1061	U	C2-N3-C4	-5.63	123.62	127.00
35	BB	1330	C	N3-C4-C5	-5.63	119.65	121.90
35	BB	2024	G	N1-C2-N2	5.63	121.27	116.20
35	BB	2053	G	N1-C2-N3	-5.63	120.52	123.90
35	BB	2637	U	N3-C4-O4	5.63	123.34	119.40
1	AA	667	G	N1-C2-N3	-5.63	120.52	123.90
1	AA	1137	C	C6-N1-C1'	-5.63	114.04	120.80
1	AA	1448	C	N3-C4-N4	5.63	121.94	118.00
34	BA	26	C	O4'-C1'-N1	5.63	112.70	108.20
35	BB	595	C	C4-C5-C6	5.63	120.22	117.40
35	BB	1136	G	C5-C6-N1	5.63	114.31	111.50
35	BB	1585	C	P-O3'-C3'	5.63	126.46	119.70
36	BC	202	ARG	CA-CB-CG	5.63	125.78	113.40
1	AA	354	G	N1-C6-O6	5.63	123.28	119.90
1	AA	378	G	C3'-C2'-C1'	-5.63	97.00	101.50
1	AA	1328	C	C5-C6-N1	5.63	123.81	121.00
1	AA	1511	G	N1-C2-N3	-5.63	120.52	123.90
16	AP	65	ALA	CB-CA-C	-5.63	101.66	110.10
35	BB	703	U	C4'-C3'-C2'	-5.63	96.97	102.60
35	BB	1156	A	N7-C8-N9	-5.63	110.99	113.80
35	BB	1544	A	N3-C4-N9	5.63	131.90	127.40
35	BB	1850	G	N3-C4-C5	-5.63	125.79	128.60
35	BB	1888	G	C5-C6-N1	-5.63	108.69	111.50
35	BB	2183	A	C4-C5-N7	5.63	113.51	110.70
35	BB	2240	U	C2-N3-C4	5.63	130.38	127.00
1	AA	34	C	N1-C2-N3	-5.63	115.26	119.20
1	AA	176	C	C3'-C2'-C1'	5.63	106.00	101.50
1	AA	380	G	C2-N3-C4	5.63	114.71	111.90
1	AA	1005	A	C4-C5-N7	-5.63	107.89	110.70
1	AA	1480	A	N9-C1'-C2'	-5.63	105.81	112.00
35	BB	401	A	C4-C5-N7	-5.63	107.89	110.70
35	BB	582	A	C5'-C4'-C3'	-5.63	107.00	116.00
35	BB	2089	C	C2-N1-C1'	-5.63	112.61	118.80
35	BB	2173	A	N1-C2-N3	5.63	132.11	129.30
35	BB	2238	G	N1-C2-N3	-5.63	120.52	123.90
35	BB	2450	A	C6-N1-C2	5.63	121.98	118.60
35	BB	2877	G	C4-C5-N7	-5.63	108.55	110.80
1	AA	71	A	O4'-C1'-N9	5.62	112.70	108.20
1	AA	896	C	C4'-C3'-C2'	-5.62	96.97	102.60
1	AA	901	A	O4'-C1'-N9	5.62	112.70	108.20
35	BB	1043	C	O4'-C4'-C3'	-5.62	98.38	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1644	C	C2-N1-C1'	5.62	124.99	118.80
35	BB	2033	A	C4-C5-N7	-5.62	107.89	110.70
35	BB	2199	A	N9-C4-C5	5.62	108.05	105.80
1	AA	367	U	C5-C4-O4	-5.62	122.53	125.90
1	AA	1057	G	N1-C2-N2	-5.62	111.14	116.20
1	AA	1064	G	O4'-C1'-C2'	5.62	112.66	107.60
5	AE	127	TYR	CZ-CE2-CD2	-5.62	114.74	119.80
34	BA	9	G	C5'-C4'-C3'	-5.62	107.00	116.00
34	BA	13	G	N1-C2-N3	-5.62	120.53	123.90
35	BB	19	A	C5-C6-N6	-5.62	119.20	123.70
35	BB	30	G	C5-C6-N1	5.62	114.31	111.50
35	BB	247	G	C5-C6-O6	-5.62	125.23	128.60
35	BB	637	A	C5-C6-N1	-5.62	114.89	117.70
35	BB	904	G	C5-N7-C8	5.62	107.11	104.30
35	BB	1098	A	O5'-P-OP2	-5.62	100.64	105.70
35	BB	1163	G	C4-N9-C1'	-5.62	119.19	126.50
35	BB	1479	G	O5'-P-OP2	-5.62	100.64	105.70
35	BB	1790	C	O4'-C1'-N1	5.62	112.70	108.20
35	BB	2670	A	O4'-C1'-N9	5.62	112.70	108.20
35	BB	2700	A	C6-N1-C2	5.62	121.97	118.60
46	BM	10	ARG	NE-CZ-NH1	5.62	123.11	120.30
1	AA	778	G	N1-C6-O6	5.62	123.27	119.90
1	AA	786	G	C1'-O4'-C4'	5.62	114.40	109.90
1	AA	876	C	N3-C4-N4	5.62	121.93	118.00
1	AA	1019	A	N3-C4-C5	-5.62	122.86	126.80
35	BB	323	C	N3-C4-N4	5.62	121.94	118.00
35	BB	665	U	C3'-C2'-C1'	5.62	106.00	101.50
35	BB	919	U	C1'-O4'-C4'	5.62	114.40	109.90
35	BB	1072	C	N3-C4-C5	-5.62	119.65	121.90
35	BB	1135	C	C2-N1-C1'	5.62	124.98	118.80
35	BB	1289	C	C5-C6-N1	5.62	123.81	121.00
35	BB	2037	A	C6-C5-N7	-5.62	128.37	132.30
35	BB	2157	G	C5-N7-C8	5.62	107.11	104.30
35	BB	2277	G	C5'-C4'-C3'	-5.62	107.00	116.00
35	BB	2314	A	N7-C8-N9	5.62	116.61	113.80
35	BB	2326	C	C4-C5-C6	-5.62	114.59	117.40
35	BB	2451	A	C3'-C2'-C1'	5.62	106.00	101.50
35	BB	2807	U	C3'-C2'-C1'	-5.62	97.00	101.50
1	AA	91	U	P-O3'-C3'	-5.62	112.96	119.70
1	AA	400	C	N3-C4-C5	-5.62	119.65	121.90
1	AA	1205	U	N3-C4-O4	5.62	123.33	119.40
1	AA	1215	G	C4-C5-C6	5.62	122.17	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1392	G	N9-C4-C5	5.62	107.65	105.40
1	AA	1441	A	C4-C5-N7	-5.62	107.89	110.70
35	BB	126	A	C5-C6-N1	-5.62	114.89	117.70
35	BB	931	U	C5'-C4'-O4'	-5.62	102.36	109.10
35	BB	1003	G	O4'-C1'-N9	5.62	112.70	108.20
35	BB	1608	A	N3-C4-N9	5.62	131.90	127.40
35	BB	1761	C	C5'-C4'-O4'	5.62	115.84	109.10
35	BB	1943	U	C3'-C2'-C1'	-5.62	97.00	101.50
35	BB	2671	G	N1-C6-O6	5.62	123.27	119.90
35	BB	2776	A	N1-C2-N3	-5.62	126.49	129.30
1	AA	39	G	O4'-C1'-N9	5.62	112.69	108.20
1	AA	736	C	O4'-C1'-N1	5.62	112.69	108.20
1	AA	782	A	N1-C2-N3	-5.62	126.49	129.30
17	AQ	11	VAL	CA-CB-CG1	5.62	119.33	110.90
34	BA	50	A	C4-C5-C6	5.62	119.81	117.00
35	BB	456	C	C5'-C4'-C3'	-5.62	107.01	116.00
35	BB	1146	C	C5-C4-N4	-5.62	116.27	120.20
35	BB	1231	U	N3-C4-C5	-5.62	111.23	114.60
35	BB	1514	G	OP1-P-OP2	-5.62	111.17	119.60
35	BB	1846	G	C5'-C4'-C3'	-5.62	107.01	116.00
35	BB	1946	U	N1-C2-N3	-5.62	111.53	114.90
35	BB	2114	A	O4'-C1'-N9	5.62	112.69	108.20
35	BB	2864	G	C4'-C3'-C2'	-5.62	96.98	102.60
54	BU	50	ALA	N-CA-CB	5.62	117.97	110.10
1	AA	401	C	P-O5'-C5'	-5.62	111.91	120.90
1	AA	813	U	C5-C4-O4	5.62	129.27	125.90
1	AA	918	A	C3'-C2'-C1'	-5.62	97.01	101.50
35	BB	402	A	N1-C2-N3	5.62	132.11	129.30
35	BB	560	C	C1'-O4'-C4'	5.62	114.39	109.90
35	BB	1082	U	C5'-C4'-C3'	-5.62	107.01	116.00
35	BB	1462	C	N3-C2-O2	-5.62	117.97	121.90
35	BB	2042	A	C6-C5-N7	-5.62	128.37	132.30
1	AA	167	A	N3-C4-N9	5.62	131.89	127.40
1	AA	1071	C	C2-N3-C4	5.62	122.71	119.90
1	AA	1146	A	C4-C5-C6	5.62	119.81	117.00
1	AA	1228	C	O4'-C1'-N1	5.62	112.69	108.20
1	AA	1426	G	N1-C2-N2	-5.62	111.15	116.20
26	B1	24	GLU	N-CA-CB	5.62	120.71	110.60
35	BB	334	C	C5-C4-N4	-5.62	116.27	120.20
35	BB	561	G	C8-N9-C4	-5.62	104.15	106.40
35	BB	712	G	N7-C8-N9	-5.62	110.29	113.10
35	BB	1431	A	N9-C4-C5	-5.62	103.55	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1977	A	C2-N3-C4	5.62	113.41	110.60
35	BB	2235	G	N1-C2-N2	-5.62	111.15	116.20
35	BB	2319	G	C6-N1-C2	5.62	128.47	125.10
35	BB	2390	U	C6-N1-C2	5.62	124.37	121.00
35	BB	2677	G	C5-N7-C8	5.62	107.11	104.30
35	BB	2686	G	C3'-C2'-C1'	-5.62	97.01	101.50
35	BB	2731	G	O4'-C1'-N9	5.62	112.69	108.20
1	AA	146	G	C8-N9-C4	-5.61	104.16	106.40
1	AA	444	G	C5-C6-N1	-5.61	108.69	111.50
1	AA	511	C	P-O3'-C3'	5.61	126.44	119.70
1	AA	787	A	N1-C6-N6	5.61	121.97	118.60
1	AA	940	C	C5-C4-N4	-5.61	116.27	120.20
1	AA	1145	A	N9-C1'-C2'	-5.61	105.82	112.00
1	AA	1236	A	C8-N9-C4	5.61	108.05	105.80
1	AA	1426	G	C6-C5-N7	-5.61	127.03	130.40
1	AA	1453	G	C4-C5-N7	-5.61	108.56	110.80
7	AG	112	ASP	CB-CG-OD1	-5.61	113.25	118.30
35	BB	70	G	O4'-C1'-N9	5.61	112.69	108.20
35	BB	439	A	C5-C6-N6	-5.61	119.21	123.70
35	BB	767	U	C6-N1-C2	-5.61	117.63	121.00
35	BB	2259	U	C5-C6-N1	5.61	125.51	122.70
35	BB	2507	C	C4-C5-C6	5.61	120.21	117.40
35	BB	2894	G	C5-N7-C8	5.61	107.11	104.30
1	AA	887	G	N9-C4-C5	5.61	107.64	105.40
34	BA	39	A	N3-C4-C5	-5.61	122.87	126.80
35	BB	1669	A	N3-C4-C5	-5.61	122.87	126.80
35	BB	2240	U	N3-C2-O2	5.61	126.13	122.20
35	BB	2429	G	C5-N7-C8	5.61	107.11	104.30
35	BB	2650	U	C6-N1-C2	-5.61	117.63	121.00
35	BB	2754	U	N1-C2-N3	5.61	118.27	114.90
1	AA	46	G	C4-C5-N7	5.61	113.04	110.80
1	AA	57	G	C6-C5-N7	-5.61	127.03	130.40
1	AA	331	G	N9-C4-C5	5.61	107.64	105.40
1	AA	1054	C	N3-C2-O2	-5.61	117.97	121.90
1	AA	1212	U	O4'-C1'-C2'	5.61	112.65	107.60
31	B6	35	ARG	NE-CZ-NH1	5.61	123.11	120.30
35	BB	749	A	N3-C4-C5	-5.61	122.87	126.80
35	BB	804	A	P-O3'-C3'	5.61	126.43	119.70
35	BB	935	C	N1-C2-N3	5.61	123.13	119.20
35	BB	1258	U	C5-C6-N1	5.61	125.50	122.70
35	BB	1486	U	C4-C5-C6	-5.61	116.33	119.70
35	BB	1628	G	C5-N7-C8	-5.61	101.50	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1848	A	C6-C5-N7	-5.61	128.37	132.30
35	BB	2149	U	N1-C2-O2	-5.61	118.87	122.80
35	BB	2221	G	N7-C8-N9	5.61	115.91	113.10
1	AA	773	G	P-O3'-C3'	-5.61	112.97	119.70
1	AA	1238	A	N7-C8-N9	-5.61	111.00	113.80
35	BB	1425	G	C4-C5-N7	5.61	113.04	110.80
35	BB	1500	G	N1-C2-N3	-5.61	120.53	123.90
35	BB	2273	A	N7-C8-N9	-5.61	111.00	113.80
1	AA	315	A	N3-C4-N9	-5.61	122.91	127.40
1	AA	490	C	C2-N3-C4	5.61	122.70	119.90
1	AA	814	A	N7-C8-N9	5.61	116.60	113.80
1	AA	1040	U	N3-C4-C5	-5.61	111.23	114.60
1	AA	1442	G	C5-C6-O6	-5.61	125.24	128.60
34	BA	26	C	O4'-C1'-C2'	5.61	112.65	107.60
35	BB	329	G	C5'-C4'-O4'	5.61	115.83	109.10
35	BB	774	G	N1-C6-O6	5.61	123.27	119.90
35	BB	863	A	O4'-C1'-N9	5.61	112.69	108.20
35	BB	1425	G	C4-C5-C6	5.61	122.17	118.80
35	BB	1469	A	C2-N3-C4	-5.61	107.80	110.60
35	BB	1697	G	N1-C2-N3	-5.61	120.54	123.90
35	BB	2295	C	C6-N1-C2	-5.61	118.06	120.30
35	BB	2340	A	N9-C1'-C2'	-5.61	105.83	112.00
35	BB	2618	G	C4-C5-C6	5.61	122.16	118.80
35	BB	2665	A	P-O3'-C3'	-5.61	112.97	119.70
35	BB	2863	C	C2-N3-C4	5.61	122.70	119.90
1	AA	525	C	N3-C4-N4	5.61	121.92	118.00
1	AA	1043	G	C8-N9-C4	-5.61	104.16	106.40
35	BB	1735	A	C6-C5-N7	-5.61	128.38	132.30
35	BB	1884	G	N3-C4-N9	-5.61	122.64	126.00
35	BB	2009	A	N3-C4-N9	5.61	131.88	127.40
35	BB	2092	U	O3'-P-O5'	-5.61	93.35	104.00
35	BB	2111	U	N3-C4-C5	-5.61	111.24	114.60
45	BL	48	ARG	NE-CZ-NH1	5.61	123.10	120.30
46	BM	129	THR	CA-CB-OG1	5.61	120.77	109.00
1	AA	122	G	C4-C5-C6	5.60	122.16	118.80
1	AA	981	U	C3'-C2'-C1'	-5.60	97.02	101.50
1	AA	1269	A	C6-C5-N7	-5.60	128.38	132.30
35	BB	325	G	N3-C4-C5	5.60	131.40	128.60
35	BB	500	G	O4'-C4'-C3'	-5.60	98.40	104.00
35	BB	535	G	C5-N7-C8	5.60	107.10	104.30
1	AA	477	C	C5-C4-N4	-5.60	116.28	120.20
1	AA	743	A	C8-N9-C4	5.60	108.04	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	787	A	C3'-C2'-C1'	5.60	105.98	101.50
1	AA	833	G	C2-N3-C4	5.60	114.70	111.90
1	AA	872	A	C5-C6-N6	-5.60	119.22	123.70
1	AA	1410	A	C5-C6-N1	-5.60	114.90	117.70
1	AA	1534	A	C6-C5-N7	-5.60	128.38	132.30
35	BB	156	A	O4'-C4'-C3'	-5.60	98.40	104.00
35	BB	518	G	N9-C4-C5	-5.60	103.16	105.40
35	BB	907	G	O4'-C1'-N9	5.60	112.68	108.20
35	BB	1382	G	C8-N9-C1'	-5.60	119.72	127.00
35	BB	1433	A	O4'-C1'-N9	5.60	112.68	108.20
35	BB	1491	G	C4-C5-N7	5.60	113.04	110.80
35	BB	1606	C	C2-N1-C1'	5.60	124.96	118.80
35	BB	1776	G	O4'-C1'-C2'	-5.60	100.20	105.80
35	BB	2422	C	C2-N3-C4	-5.60	117.10	119.90
35	BB	2820	A	C5-N7-C8	5.60	106.70	103.90
1	AA	33	A	C5-C6-N1	5.60	120.50	117.70
1	AA	227	G	C8-N9-C4	-5.60	104.16	106.40
1	AA	909	A	C1'-O4'-C4'	5.60	114.38	109.90
6	AF	86	ARG	NE-CZ-NH1	5.60	123.10	120.30
22	AV	22	G	O4'-C1'-N9	5.60	112.68	108.20
35	BB	1061	U	OP1-P-OP2	-5.60	111.20	119.60
35	BB	2206	C	C4'-C3'-C2'	-5.60	97.00	102.60
35	BB	2575	C	P-O3'-C3'	5.60	126.42	119.70
45	BL	47	ARG	CD-NE-CZ	-5.60	115.76	123.60
1	AA	282	A	C6-C5-N7	-5.60	128.38	132.30
1	AA	427	U	N3-C2-O2	5.60	126.12	122.20
1	AA	1143	G	C8-N9-C4	-5.60	104.16	106.40
1	AA	1398	A	C6-N1-C2	-5.60	115.24	118.60
1	AA	1518	A	C8-N9-C4	-5.60	103.56	105.80
12	AL	55	ARG	NE-CZ-NH2	-5.60	117.50	120.30
35	BB	321	U	C2-N3-C4	5.60	130.36	127.00
35	BB	506	G	C5-C6-O6	-5.60	125.24	128.60
35	BB	957	C	N3-C4-C5	-5.60	119.66	121.90
35	BB	997	G	C8-N9-C1'	5.60	134.28	127.00
35	BB	1442	U	C5-C6-N1	5.60	125.50	122.70
35	BB	1482	G	N1-C2-N3	-5.60	120.54	123.90
35	BB	1546	G	C6-C5-N7	-5.60	127.04	130.40
35	BB	1738	G	N3-C4-N9	5.60	129.36	126.00
35	BB	2169	A	C2-N3-C4	5.60	113.40	110.60
35	BB	2340	A	C5-C6-N1	-5.60	114.90	117.70
35	BB	2744	G	N7-C8-N9	-5.60	110.30	113.10
35	BB	2851	A	C5-C6-N1	-5.60	114.90	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	498	A	C1'-O4'-C4'	5.60	114.38	109.90
1	AA	566	G	N3-C2-N2	5.60	123.82	119.90
1	AA	859	G	C5-C6-O6	-5.60	125.24	128.60
1	AA	1034	G	P-O3'-C3'	-5.60	112.98	119.70
7	AG	104	VAL	CA-CB-CG1	5.60	119.30	110.90
35	BB	37	C	P-O3'-C3'	-5.60	112.98	119.70
35	BB	716	A	C6-N1-C2	5.60	121.96	118.60
35	BB	969	G	C8-N9-C4	-5.60	104.16	106.40
35	BB	983	A	C1'-O4'-C4'	5.60	114.38	109.90
35	BB	1549	A	C6-C5-N7	-5.60	128.38	132.30
35	BB	2280	G	C4-C5-N7	5.60	113.04	110.80
35	BB	2524	G	C3'-C2'-C1'	5.60	105.98	101.50
35	BB	2869	G	O4'-C1'-N9	5.60	112.68	108.20
1	AA	491	G	N1-C6-O6	5.60	123.26	119.90
1	AA	1308	U	C4'-C3'-C2'	5.60	108.20	102.60
35	BB	282	A	N1-C6-N6	5.60	121.96	118.60
35	BB	1589	U	C3'-C2'-C1'	-5.60	97.02	101.50
1	AA	15	G	C5-N7-C8	-5.59	101.50	104.30
1	AA	98	A	N1-C2-N3	5.59	132.10	129.30
1	AA	551	U	P-O5'-C5'	5.59	129.85	120.90
1	AA	614	C	C5-C6-N1	5.59	123.80	121.00
1	AA	1154	G	C5-N7-C8	5.59	107.10	104.30
1	AA	1459	G	C5-C6-N1	-5.59	108.70	111.50
1	AA	1497	G	C5-N7-C8	5.59	107.10	104.30
1	AA	1513	A	N9-C4-C5	-5.59	103.56	105.80
3	AC	7	ASN	O-C-N	-5.59	113.69	123.20
35	BB	1596	A	N1-C2-N3	5.59	132.10	129.30
35	BB	1912	A	C3'-C2'-C1'	5.59	105.97	101.50
35	BB	1930	G	C5-C6-N1	-5.59	108.70	111.50
35	BB	1975	G	C5-C6-N1	-5.59	108.70	111.50
35	BB	2188	U	N1-C2-O2	-5.59	118.88	122.80
35	BB	2229	U	N1-C2-N3	5.59	118.26	114.90
35	BB	2331	G	C2-N3-C4	-5.59	109.10	111.90
35	BB	2526	G	C5-C6-O6	-5.59	125.24	128.60
35	BB	2619	C	C5-C6-N1	5.59	123.80	121.00
35	BB	2824	C	C5-C6-N1	5.59	123.80	121.00
1	AA	120	A	C5-N7-C8	5.59	106.70	103.90
35	BB	242	G	C2-N3-C4	-5.59	109.10	111.90
35	BB	601	C	C4'-C3'-C2'	-5.59	97.01	102.60
35	BB	1126	A	P-O5'-C5'	-5.59	111.95	120.90
35	BB	1168	G	C6-N1-C2	5.59	128.46	125.10
35	BB	1725	U	C4'-C3'-C2'	-5.59	97.01	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1871	A	C4-C5-N7	-5.59	107.90	110.70
35	BB	2375	G	N9-C1'-C2'	-5.59	105.85	112.00
1	AA	469	C	C2-N3-C4	-5.59	117.10	119.90
1	AA	533	A	N7-C8-N9	5.59	116.59	113.80
1	AA	1162	C	C6-N1-C2	-5.59	118.06	120.30
1	AA	1222	G	C4'-C3'-C2'	-5.59	97.01	102.60
1	AA	1231	G	N3-C2-N2	5.59	123.81	119.90
1	AA	1334	G	C5-C6-N1	-5.59	108.70	111.50
5	AE	113	VAL	CA-CB-CG2	5.59	119.29	110.90
22	AV	58	A	C5-C6-N1	-5.59	114.90	117.70
34	BA	84	G	C5-C6-N1	5.59	114.30	111.50
35	BB	87	U	C2-N3-C4	-5.59	123.64	127.00
35	BB	166	U	O4'-C1'-N1	5.59	112.67	108.20
35	BB	505	A	O4'-C1'-N9	5.59	112.67	108.20
35	BB	665	U	C6-N1-C2	-5.59	117.64	121.00
35	BB	868	U	C4'-C3'-C2'	-5.59	97.01	102.60
35	BB	934	U	C5-C4-O4	-5.59	122.55	125.90
35	BB	1098	A	N1-C6-N6	5.59	121.95	118.60
35	BB	1126	A	C5-C6-N1	-5.59	114.90	117.70
35	BB	1817	G	N1-C2-N3	-5.59	120.55	123.90
35	BB	1914	C	N3-C4-C5	-5.59	119.66	121.90
35	BB	2355	G	N3-C2-N2	-5.59	115.99	119.90
35	BB	2579	C	O4'-C1'-N1	5.59	112.67	108.20
35	BB	2598	A	C3'-C2'-C1'	5.59	105.97	101.50
35	BB	2688	G	N1-C2-N2	-5.59	111.17	116.20
1	AA	487	A	N9-C4-C5	5.59	108.03	105.80
1	AA	666	G	C6-C5-N7	-5.59	127.05	130.40
1	AA	1511	G	C5-C6-N1	-5.59	108.70	111.50
35	BB	70	G	N1-C2-N3	-5.59	120.55	123.90
35	BB	528	A	C4-C5-C6	5.59	119.80	117.00
35	BB	726	G	C5-C6-O6	-5.59	125.25	128.60
35	BB	1514	G	C3'-C2'-C1'	-5.59	97.03	101.50
35	BB	1594	U	C5-C6-N1	5.59	125.50	122.70
35	BB	2062	A	N9-C4-C5	-5.59	103.56	105.80
35	BB	2864	G	N3-C4-C5	5.59	131.40	128.60
35	BB	2899	A	O4'-C1'-N9	5.59	112.67	108.20
1	AA	750	C	C1'-O4'-C4'	5.59	114.37	109.90
1	AA	845	A	N3-C4-C5	-5.59	122.89	126.80
22	AV	76	A	OP1-P-OP2	-5.59	111.22	119.60
34	BA	84	G	N9-C4-C5	-5.59	103.17	105.40
35	BB	407	G	C4-C5-N7	-5.59	108.56	110.80
35	BB	1559	U	C2-N1-C1'	5.59	124.41	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2178	C	N1-C2-N3	-5.59	115.29	119.20
35	BB	2204	G	N3-C4-N9	5.59	129.35	126.00
1	AA	213	G	N1-C2-N2	5.59	121.23	116.20
1	AA	353	A	C8-N9-C4	-5.59	103.56	105.80
1	AA	484	G	N7-C8-N9	-5.59	110.31	113.10
1	AA	554	A	O4'-C1'-N9	5.59	112.67	108.20
1	AA	826	C	C4-C5-C6	5.59	120.19	117.40
1	AA	888	G	N3-C4-C5	5.59	131.39	128.60
1	AA	942	G	C2-N3-C4	-5.59	109.11	111.90
1	AA	1014	A	C6-N1-C2	5.59	121.95	118.60
1	AA	1068	G	C6-C5-N7	-5.59	127.05	130.40
1	AA	1118	U	C2-N1-C1'	5.59	124.40	117.70
13	AM	100	ARG	NE-CZ-NH2	-5.59	117.51	120.30
22	AV	48	C	N3-C4-N4	5.59	121.91	118.00
35	BB	197	A	C8-N9-C4	-5.59	103.56	105.80
35	BB	494	G	C4'-C3'-C2'	-5.59	97.01	102.60
35	BB	1448	G	N9-C1'-C2'	-5.59	105.85	112.00
35	BB	1633	G	C4-N9-C1'	5.59	133.76	126.50
35	BB	1729	U	C4'-C3'-C2'	-5.59	97.01	102.60
35	BB	1883	U	O3'-P-O5'	-5.59	93.39	104.00
35	BB	2121	G	C5-N7-C8	-5.59	101.51	104.30
35	BB	2235	G	O4'-C1'-N9	5.59	112.67	108.20
35	BB	2389	G	C5-N7-C8	5.59	107.09	104.30
53	BT	6	ARG	NE-CZ-NH1	5.59	123.09	120.30
35	BB	840	C	C5-C6-N1	-5.58	118.21	121.00
35	BB	1500	G	N3-C2-N2	5.58	123.81	119.90
1	AA	52	C	C5'-C4'-O4'	5.58	115.80	109.10
1	AA	120	A	C5-C6-N1	-5.58	114.91	117.70
1	AA	129	A	C5-C6-N1	-5.58	114.91	117.70
1	AA	297	G	C8-N9-C1'	5.58	134.26	127.00
1	AA	753	A	P-O3'-C3'	-5.58	113.00	119.70
1	AA	1036	A	P-O5'-C5'	5.58	129.84	120.90
1	AA	1477	U	C5'-C4'-C3'	-5.58	107.07	116.00
7	AG	43	TYR	CG-CD1-CE1	5.58	125.77	121.30
35	BB	879	G	C4'-C3'-C2'	-5.58	97.02	102.60
35	BB	1604	C	O5'-C5'-C4'	-5.58	101.09	111.70
35	BB	1620	G	P-O3'-C3'	-5.58	113.00	119.70
35	BB	1905	C	P-O3'-C3'	5.58	126.40	119.70
35	BB	2077	A	N3-C4-C5	-5.58	122.89	126.80
35	BB	2296	U	C5-C6-N1	5.58	125.49	122.70
35	BB	2537	U	C4-C5-C6	-5.58	116.35	119.70
35	BB	2656	U	O4'-C1'-N1	5.58	112.67	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2726	A	C6-N1-C2	5.58	121.95	118.60
1	AA	716	A	N1-C6-N6	5.58	121.95	118.60
1	AA	831	A	C1'-O4'-C4'	-5.58	105.44	109.90
1	AA	863	U	N1-C2-O2	5.58	126.71	122.80
1	AA	996	A	N7-C8-N9	-5.58	111.01	113.80
1	AA	1114	C	C2-N1-C1'	5.58	124.94	118.80
1	AA	1258	G	C6-N1-C2	-5.58	121.75	125.10
19	AS	35	ARG	CB-CA-C	-5.58	99.24	110.40
35	BB	328	U	C4-C5-C6	-5.58	116.35	119.70
35	BB	479	A	N9-C4-C5	-5.58	103.57	105.80
35	BB	914	G	C8-N9-C4	-5.58	104.17	106.40
35	BB	1283	G	N3-C2-N2	5.58	123.81	119.90
35	BB	1413	A	C5-C6-N1	-5.58	114.91	117.70
35	BB	1448	G	O4'-C1'-N9	5.58	112.67	108.20
35	BB	1630	A	O5'-C5'-C4'	-5.58	101.10	111.70
35	BB	1669	A	C5-C6-N6	-5.58	119.23	123.70
35	BB	2634	A	C4-C5-N7	-5.58	107.91	110.70
35	BB	2741	A	N7-C8-N9	-5.58	111.01	113.80
49	BP	101	GLU	O-C-N	-5.58	113.77	122.70
1	AA	393	A	C5-C6-N1	-5.58	114.91	117.70
1	AA	415	A	N1-C2-N3	-5.58	126.51	129.30
1	AA	468	A	P-O3'-C3'	5.58	126.40	119.70
1	AA	954	G	C4-C5-C6	5.58	122.15	118.80
1	AA	1343	G	N9-C4-C5	5.58	107.63	105.40
35	BB	381	G	C8-N9-C1'	-5.58	119.75	127.00
35	BB	2132	U	O3'-P-O5'	5.58	114.60	104.00
1	AA	39	G	C4-C5-N7	5.58	113.03	110.80
1	AA	298	A	N1-C6-N6	5.58	121.95	118.60
16	AP	77	GLU	OE1-CD-OE2	5.58	130.00	123.30
35	BB	200	U	C4-C5-C6	5.58	123.05	119.70
35	BB	879	G	C4-C5-N7	5.58	113.03	110.80
35	BB	1199	U	C4-C5-C6	-5.58	116.35	119.70
35	BB	1327	A	C2-N3-C4	-5.58	107.81	110.60
35	BB	1435	G	C8-N9-C4	-5.58	104.17	106.40
35	BB	1471	G	C4-C5-N7	-5.58	108.57	110.80
35	BB	1478	G	N9-C4-C5	5.58	107.63	105.40
35	BB	2813	A	C1'-O4'-C4'	5.58	114.36	109.90
35	BB	2830	C	C4-C5-C6	5.58	120.19	117.40
35	BB	503	A	C5-N7-C8	5.58	106.69	103.90
35	BB	2056	G	C1'-O4'-C4'	5.58	114.36	109.90
35	BB	2105	U	N3-C2-O2	5.58	126.10	122.20
1	AA	201	G	C5-C6-N1	-5.58	108.71	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	587	G	N7-C8-N9	-5.58	110.31	113.10
1	AA	760	G	N1-C6-O6	5.58	123.25	119.90
1	AA	1162	C	C5-C6-N1	5.58	123.79	121.00
22	AV	43	G	O4'-C1'-N9	5.58	112.66	108.20
35	BB	119	A	C2-N3-C4	-5.58	107.81	110.60
35	BB	584	C	C6-N1-C2	-5.58	118.07	120.30
35	BB	1336	A	O4'-C1'-N9	5.58	112.66	108.20
35	BB	1927	A	C6-C5-N7	-5.58	128.40	132.30
35	BB	2106	U	N3-C2-O2	5.58	126.10	122.20
35	BB	2354	C	N3-C2-O2	5.58	125.80	121.90
35	BB	2443	C	N1-C2-N3	-5.58	115.30	119.20
35	BB	2714	G	N3-C2-N2	5.58	123.80	119.90
35	BB	2751	G	C6-C5-N7	-5.58	127.05	130.40
1	AA	54	C	O5'-C5'-C4'	-5.57	101.11	111.70
1	AA	63	C	C5'-C4'-O4'	5.57	115.79	109.10
1	AA	826	C	P-O3'-C3'	5.57	126.39	119.70
1	AA	900	A	N3-C4-N9	5.57	131.86	127.40
1	AA	908	A	C6-N1-C2	5.57	121.94	118.60
1	AA	1068	G	C4-C5-C6	5.57	122.14	118.80
1	AA	1505	G	N9-C4-C5	-5.57	103.17	105.40
8	AH	44	PHE	N-CA-CB	5.57	120.63	110.60
10	AJ	68	ARG	NE-CZ-NH1	5.57	123.09	120.30
35	BB	207	A	C4-C5-N7	5.57	113.49	110.70
35	BB	674	G	O5'-C5'-C4'	-5.57	101.11	111.70
35	BB	907	G	C2-N3-C4	-5.57	109.11	111.90
35	BB	995	C	O4'-C4'-C3'	-5.57	98.43	104.00
35	BB	1020	A	C4-C5-C6	5.57	119.79	117.00
35	BB	1468	U	O4'-C4'-C3'	-5.57	98.43	104.00
35	BB	1776	G	N3-C4-C5	-5.57	125.81	128.60
35	BB	1901	A	N3-C4-C5	-5.57	122.90	126.80
35	BB	2068	U	C4-C5-C6	5.57	123.04	119.70
35	BB	2068	U	N3-C4-O4	5.57	123.30	119.40
35	BB	2714	G	C8-N9-C4	5.57	108.63	106.40
35	BB	2903	U	O4'-C4'-C3'	-5.57	98.43	104.00
1	AA	255	G	N9-C4-C5	5.57	107.63	105.40
1	AA	837	U	N1-C2-O2	-5.57	118.90	122.80
1	AA	1199	U	N3-C4-O4	-5.57	115.50	119.40
1	AA	1494	G	C8-N9-C4	-5.57	104.17	106.40
35	BB	965	C	P-O3'-C3'	-5.57	113.01	119.70
35	BB	1877	A	N9-C4-C5	-5.57	103.57	105.80
35	BB	2640	G	C2-N3-C4	-5.57	109.11	111.90
1	AA	10	A	N7-C8-N9	-5.57	111.02	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	378	G	C4-C5-N7	5.57	113.03	110.80
1	AA	385	C	P-O5'-C5'	5.57	129.81	120.90
1	AA	1050	G	N1-C2-N3	-5.57	120.56	123.90
1	AA	1433	A	N7-C8-N9	-5.57	111.01	113.80
4	AD	62	ARG	NE-CZ-NH1	-5.57	117.52	120.30
5	AE	13	LYS	N-CA-CB	5.57	120.63	110.60
35	BB	882	G	C5'-C4'-O4'	5.57	115.78	109.10
35	BB	904	G	O4'-C1'-N9	5.57	112.66	108.20
35	BB	1043	C	C5-C4-N4	-5.57	116.30	120.20
35	BB	1194	A	N3-C4-C5	-5.57	122.90	126.80
35	BB	1866	A	C5-C6-N6	-5.57	119.24	123.70
35	BB	1906	G	O4'-C1'-N9	5.57	112.66	108.20
35	BB	1939	U	N1-C2-O2	-5.57	118.90	122.80
35	BB	2286	G	C1'-O4'-C4'	-5.57	105.44	109.90
35	BB	2482	A	N3-C4-C5	-5.57	122.90	126.80
35	BB	2608	G	N7-C8-N9	5.57	115.89	113.10
35	BB	2690	U	C4-C5-C6	5.57	123.04	119.70
38	BE	184	ASP	CB-CG-OD2	5.57	123.31	118.30
44	BK	120	PRO	N-CA-CB	-5.57	96.47	102.60
35	BB	409	G	C4-C5-C6	5.57	122.14	118.80
35	BB	589	U	N1-C2-N3	-5.57	111.56	114.90
35	BB	604	G	C5-C6-O6	-5.57	125.26	128.60
35	BB	1307	A	OP1-P-O3'	5.57	117.45	105.20
35	BB	1462	C	C2-N1-C1'	5.57	124.92	118.80
35	BB	2212	A	C4-C5-C6	5.57	119.78	117.00
35	BB	2543	G	N1-C2-N3	-5.57	120.56	123.90
1	AA	777	A	O4'-C1'-N9	5.57	112.65	108.20
1	AA	964	A	C8-N9-C4	-5.57	103.57	105.80
1	AA	1047	G	C5-C6-O6	-5.57	125.26	128.60
1	AA	1214	C	O4'-C1'-N1	5.57	112.65	108.20
1	AA	1390	U	C5-C6-N1	5.57	125.48	122.70
24	AZ	24	ALA	CB-CA-C	-5.57	101.75	110.10
34	BA	74	U	C2-N3-C4	5.57	130.34	127.00
35	BB	16	C	N3-C4-N4	5.57	121.90	118.00
35	BB	893	C	C2-N3-C4	5.57	122.68	119.90
35	BB	1430	G	N1-C6-O6	5.57	123.24	119.90
35	BB	1801	A	C6-C5-N7	-5.57	128.40	132.30
35	BB	1892	C	N3-C4-N4	5.57	121.90	118.00
35	BB	2139	U	P-O5'-C5'	-5.57	111.99	120.90
35	BB	2227	A	P-O3'-C3'	-5.57	113.02	119.70
35	BB	2279	G	O4'-C1'-C2'	-5.57	100.23	105.80
35	BB	2326	C	N1-C2-N3	-5.57	115.30	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2507	C	C2-N3-C4	-5.57	117.12	119.90
35	BB	2690	U	N3-C4-O4	5.57	123.30	119.40
35	BB	2862	G	P-O5'-C5'	-5.57	111.99	120.90
1	AA	848	C	C6-N1-C1'	-5.57	114.12	120.80
1	AA	1081	A	C8-N9-C4	-5.57	103.57	105.80
1	AA	1367	C	N3-C4-C5	-5.57	119.67	121.90
34	BA	94	A	C5-N7-C8	5.57	106.68	103.90
35	BB	626	A	C5'-C4'-O4'	5.57	115.78	109.10
35	BB	1009	A	N1-C2-N3	-5.57	126.52	129.30
35	BB	1570	A	OP1-P-OP2	-5.57	111.25	119.60
35	BB	1938	A	C8-N9-C4	5.57	108.03	105.80
35	BB	2238	G	N1-C6-O6	-5.57	116.56	119.90
1	AA	11	G	O4'-C1'-N9	5.56	112.65	108.20
1	AA	359	G	C4'-C3'-C2'	-5.56	97.04	102.60
1	AA	391	G	C5-N7-C8	5.56	107.08	104.30
1	AA	945	G	N1-C6-O6	5.56	123.24	119.90
1	AA	1037	C	C5-C4-N4	-5.56	116.31	120.20
35	BB	522	A	N1-C2-N3	5.56	132.08	129.30
35	BB	1875	G	N9-C4-C5	-5.56	103.17	105.40
35	BB	2078	C	C4'-C3'-C2'	-5.56	97.04	102.60
35	BB	2243	U	N1-C2-N3	5.56	118.24	114.90
35	BB	2561	U	C2-N3-C4	-5.56	123.66	127.00
1	AA	647	C	N3-C2-O2	5.56	125.79	121.90
1	AA	747	A	C6-N1-C2	-5.56	115.26	118.60
1	AA	768	A	N3-C4-N9	5.56	131.85	127.40
1	AA	785	G	C5'-C4'-O4'	5.56	115.78	109.10
1	AA	1096	C	C4-C5-C6	-5.56	114.62	117.40
1	AA	1204	A	C4-C5-N7	-5.56	107.92	110.70
1	AA	1286	U	C4-C5-C6	5.56	123.04	119.70
30	B5	16	ASP	CB-CG-OD1	-5.56	113.29	118.30
34	BA	33	G	C8-N9-C4	5.56	108.62	106.40
35	BB	271	G	N1-C2-N3	-5.56	120.56	123.90
35	BB	283	G	N1-C2-N2	5.56	121.20	116.20
35	BB	406	G	C4-N9-C1'	-5.56	119.27	126.50
35	BB	624	C	N3-C2-O2	-5.56	118.01	121.90
35	BB	1626	A	C5-C6-N6	-5.56	119.25	123.70
35	BB	1694	C	C2-N1-C1'	5.56	124.92	118.80
35	BB	1768	C	O5'-C5'-C4'	-5.56	101.13	111.70
35	BB	1822	C	C5-C4-N4	-5.56	116.31	120.20
35	BB	1828	G	C4'-C3'-C2'	-5.56	97.04	102.60
35	BB	2201	G	N9-C4-C5	-5.56	103.17	105.40
1	AA	207	C	C1'-O4'-C4'	5.56	114.35	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1010	U	N3-C4-C5	-5.56	111.26	114.60
1	AA	1133	G	C6-N1-C2	5.56	128.44	125.10
22	AV	62	C	N3-C4-N4	5.56	121.89	118.00
35	BB	78	U	N1-C2-O2	-5.56	118.91	122.80
35	BB	846	U	C1'-O4'-C4'	-5.56	105.45	109.90
35	BB	1008	A	N9-C4-C5	5.56	108.03	105.80
35	BB	1037	G	N9-C1'-C2'	-5.56	105.88	112.00
35	BB	1330	C	N3-C4-N4	5.56	121.89	118.00
35	BB	1455	G	N7-C8-N9	5.56	115.88	113.10
35	BB	1681	G	O4'-C4'-C3'	-5.56	98.44	104.00
35	BB	2271	G	O4'-C1'-N9	5.56	112.65	108.20
1	AA	39	G	N9-C4-C5	-5.56	103.18	105.40
1	AA	55	A	C1'-O4'-C4'	5.56	114.35	109.90
1	AA	75	G	C8-N9-C4	5.56	108.62	106.40
1	AA	517	G	C8-N9-C4	-5.56	104.18	106.40
1	AA	1123	U	C2-N3-C4	-5.56	123.66	127.00
1	AA	1174	G	C5-C6-O6	-5.56	125.26	128.60
1	AA	1453	G	N7-C8-N9	-5.56	110.32	113.10
35	BB	70	G	O5'-C5'-C4'	-5.56	101.14	111.70
35	BB	691	C	O4'-C1'-N1	5.56	112.65	108.20
35	BB	916	G	N7-C8-N9	5.56	115.88	113.10
35	BB	1070	A	N9-C4-C5	5.56	108.02	105.80
35	BB	1598	A	N9-C4-C5	5.56	108.02	105.80
35	BB	1669	A	C5-N7-C8	5.56	106.68	103.90
35	BB	2086	U	P-O5'-C5'	-5.56	112.00	120.90
35	BB	2587	A	P-O3'-C3'	-5.56	113.03	119.70
35	BB	2832	U	O4'-C1'-N1	5.56	112.65	108.20
1	AA	138	G	C2-N3-C4	-5.56	109.12	111.90
1	AA	406	G	C2-N3-C4	5.56	114.68	111.90
1	AA	555	U	C5-C4-O4	-5.56	122.56	125.90
1	AA	563	A	C6-C5-N7	-5.56	128.41	132.30
1	AA	931	C	N3-C4-C5	5.56	124.12	121.90
1	AA	964	A	C5'-C4'-O4'	5.56	115.77	109.10
35	BB	85	G	N3-C2-N2	5.56	123.79	119.90
35	BB	195	A	C4-C5-C6	5.56	119.78	117.00
35	BB	597	G	OP1-P-OP2	-5.56	111.26	119.60
35	BB	733	G	C8-N9-C4	-5.56	104.18	106.40
35	BB	810	U	C3'-C2'-C1'	-5.56	97.05	101.50
35	BB	934	U	N1-C2-N3	-5.56	111.57	114.90
35	BB	1060	U	N3-C4-O4	5.56	123.29	119.40
35	BB	1529	G	N7-C8-N9	5.56	115.88	113.10
35	BB	1814	G	N1-C2-N3	-5.56	120.57	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1925	C	C2-N3-C4	-5.56	117.12	119.90
35	BB	1947	C	C6-N1-C2	5.56	122.52	120.30
35	BB	2823	A	P-O3'-C3'	-5.56	113.03	119.70
35	BB	213	A	C4-C5-N7	-5.56	107.92	110.70
35	BB	453	A	N1-C2-N3	5.56	132.08	129.30
35	BB	543	G	C5-C6-O6	-5.56	125.27	128.60
35	BB	684	G	O5'-P-OP2	5.56	117.37	110.70
35	BB	1650	A	P-O5'-C5'	5.56	129.79	120.90
34	BA	47	C	C1'-O4'-C4'	-5.55	105.46	109.90
35	BB	8	C	O5'-P-OP2	5.55	117.37	110.70
35	BB	23	G	N3-C4-C5	-5.55	125.82	128.60
35	BB	98	G	N7-C8-N9	5.55	115.88	113.10
35	BB	242	G	C8-N9-C4	5.55	108.62	106.40
35	BB	506	G	C5-N7-C8	-5.55	101.52	104.30
35	BB	520	G	C8-N9-C1'	5.55	134.22	127.00
35	BB	1134	A	C2-N3-C4	-5.55	107.82	110.60
35	BB	1382	G	P-O3'-C3'	-5.55	113.03	119.70
35	BB	1641	A	C4-C5-N7	-5.55	107.92	110.70
35	BB	1819	A	P-O5'-C5'	5.55	129.79	120.90
35	BB	2159	G	C3'-C2'-C1'	5.55	105.94	101.50
35	BB	2433	A	C4-C5-N7	-5.55	107.92	110.70
35	BB	2707	U	N3-C4-O4	5.55	123.29	119.40
35	BB	2799	A	C4-N9-C1'	5.55	136.30	126.30
16	AP	35	ARG	NE-CZ-NH2	-5.55	117.52	120.30
35	BB	686	U	O4'-C4'-C3'	5.55	110.54	106.10
35	BB	1235	G	C2-N3-C4	-5.55	109.12	111.90
35	BB	1466	U	C2-N3-C4	-5.55	123.67	127.00
35	BB	1540	G	C4-C5-C6	5.55	122.13	118.80
35	BB	1942	C	O4'-C1'-N1	5.55	112.64	108.20
37	BD	184	ARG	NE-CZ-NH2	5.55	123.08	120.30
1	AA	79	G	N1-C2-N2	-5.55	111.20	116.20
1	AA	1020	G	N1-C2-N3	-5.55	120.57	123.90
1	AA	1050	G	N3-C2-N2	5.55	123.79	119.90
1	AA	1189	U	N3-C4-C5	-5.55	111.27	114.60
1	AA	1235	U	N3-C4-C5	-5.55	111.27	114.60
1	AA	1266	G	N3-C4-N9	-5.55	122.67	126.00
1	AA	1305	G	N1-C2-N3	-5.55	120.57	123.90
1	AA	1518	A	N1-C6-N6	5.55	121.93	118.60
34	BA	53	A	O5'-P-OP2	5.55	117.36	110.70
35	BB	271	G	N3-C4-C5	5.55	131.38	128.60
35	BB	829	A	C4-C5-C6	5.55	119.78	117.00
35	BB	1828	G	C2-N3-C4	5.55	114.68	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1922	G	C4'-C3'-C2'	-5.55	97.05	102.60
35	BB	2033	A	N7-C8-N9	-5.55	111.02	113.80
35	BB	2200	C	C2-N1-C1'	5.55	124.91	118.80
35	BB	2693	G	O4'-C1'-N9	5.55	112.64	108.20
38	BE	182	ALA	N-CA-CB	5.55	117.87	110.10
1	AA	498	A	C8-N9-C4	-5.55	103.58	105.80
1	AA	903	G	O4'-C1'-N9	5.55	112.64	108.20
1	AA	936	C	N1-C2-N3	5.55	123.08	119.20
1	AA	1231	G	C6-C5-N7	-5.55	127.07	130.40
1	AA	1282	C	C5-C4-N4	-5.55	116.31	120.20
1	AA	1426	G	C2-N3-C4	-5.55	109.12	111.90
35	BB	813	U	N1-C2-N3	-5.55	111.57	114.90
35	BB	876	C	O4'-C4'-C3'	-5.55	98.45	104.00
35	BB	1013	C	P-O3'-C3'	-5.55	113.04	119.70
35	BB	1290	C	C6-N1-C2	-5.55	118.08	120.30
35	BB	2355	G	C4-C5-N7	5.55	113.02	110.80
35	BB	2569	G	N9-C4-C5	5.55	107.62	105.40
35	BB	2672	U	N3-C4-O4	-5.55	115.52	119.40
35	BB	2886	A	N9-C1'-C2'	-5.55	105.89	112.00
45	BL	41	ARG	NE-CZ-NH1	-5.55	117.53	120.30
1	AA	762	U	C5'-C4'-O4'	5.55	115.76	109.10
1	AA	769	G	N7-C8-N9	-5.55	110.33	113.10
1	AA	922	G	C1'-O4'-C4'	-5.55	105.46	109.90
1	AA	978	A	N3-C4-N9	5.55	131.84	127.40
1	AA	1106	G	N1-C6-O6	5.55	123.23	119.90
22	AV	25	C	N3-C4-N4	5.55	121.88	118.00
1	AA	157	U	P-O5'-C5'	5.55	129.77	120.90
1	AA	291	U	N3-C2-O2	5.55	126.08	122.20
1	AA	1261	A	C4'-C3'-C2'	-5.55	97.05	102.60
1	AA	1292	G	N7-C8-N9	-5.55	110.33	113.10
8	AH	110	MET	N-CA-CB	-5.55	100.62	110.60
12	AL	94	TYR	CA-CB-CG	-5.55	102.86	113.40
35	BB	264	C	C2-N3-C4	5.55	122.67	119.90
35	BB	1205	A	C8-N9-C4	5.55	108.02	105.80
35	BB	1297	C	C5-C6-N1	5.55	123.77	121.00
35	BB	1306	C	N3-C4-C5	-5.55	119.68	121.90
35	BB	1482	G	N9-C4-C5	5.55	107.62	105.40
35	BB	1579	A	C5-C6-N6	-5.55	119.26	123.70
35	BB	1603	A	C4'-C3'-C2'	-5.55	97.05	102.60
35	BB	2055	C	N1-C2-N3	5.55	123.08	119.20
35	BB	2135	A	N1-C6-N6	5.55	121.93	118.60
1	AA	63	C	N3-C4-C5	-5.54	119.68	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	123	U	N3-C4-O4	5.54	123.28	119.40
35	BB	1061	U	N3-C4-O4	5.54	123.28	119.40
35	BB	2074	U	N1-C2-N3	-5.54	111.57	114.90
35	BB	2770	G	C2-N3-C4	-5.54	109.13	111.90
1	AA	289	G	C4-C5-N7	-5.54	108.58	110.80
1	AA	847	G	N7-C8-N9	5.54	115.87	113.10
1	AA	1163	A	C5-N7-C8	-5.54	101.13	103.90
1	AA	1274	A	N7-C8-N9	5.54	116.57	113.80
1	AA	1399	C	N3-C2-O2	5.54	125.78	121.90
10	AJ	77	VAL	CA-CB-CG1	5.54	119.21	110.90
35	BB	139	U	C1'-O4'-C4'	-5.54	105.47	109.90
35	BB	643	A	C3'-C2'-C1'	5.54	105.93	101.50
35	BB	672	C	N1-C2-O2	5.54	122.23	118.90
35	BB	708	G	C5'-C4'-C3'	-5.54	107.13	116.00
35	BB	992	C	C4'-C3'-C2'	-5.54	97.06	102.60
35	BB	1280	G	C5'-C4'-O4'	5.54	115.75	109.10
35	BB	1452	G	C2-N3-C4	5.54	114.67	111.90
35	BB	1797	G	N3-C4-C5	-5.54	125.83	128.60
35	BB	1904	G	O4'-C4'-C3'	-5.54	98.46	104.00
35	BB	1906	G	OP1-P-OP2	-5.54	111.28	119.60
35	BB	2024	G	C5-C6-N1	-5.54	108.73	111.50
35	BB	2449	U	N3-C4-O4	5.54	123.28	119.40
35	BB	2618	G	OP2-P-O3'	5.54	117.40	105.20
35	BB	2828	G	P-O3'-C3'	-5.54	113.05	119.70
35	BB	2868	A	N1-C6-N6	5.54	121.93	118.60
54	BU	94	PHE	CG-CD2-CE2	5.54	126.90	120.80
1	AA	290	C	C5-C4-N4	-5.54	116.32	120.20
1	AA	293	G	C6-C5-N7	-5.54	127.08	130.40
1	AA	1231	G	C5-C6-O6	-5.54	125.28	128.60
1	AA	1380	U	O4'-C1'-N1	5.54	112.63	108.20
35	BB	282	A	N7-C8-N9	-5.54	111.03	113.80
35	BB	909	A	C4-C5-N7	5.54	113.47	110.70
35	BB	1163	G	N3-C4-N9	5.54	129.32	126.00
35	BB	1262	A	C8-N9-C4	-5.54	103.58	105.80
35	BB	1714	U	N3-C4-C5	-5.54	111.28	114.60
35	BB	1993	U	C5'-C4'-O4'	-5.54	102.45	109.10
35	BB	2282	G	C6-N1-C2	-5.54	121.78	125.10
35	BB	2487	G	C5-N7-C8	5.54	107.07	104.30
35	BB	2551	C	C5-C4-N4	-5.54	116.32	120.20
35	BB	2692	G	C4-C5-C6	5.54	122.12	118.80
35	BB	2788	C	C2-N1-C1'	5.54	124.90	118.80
38	BE	161	ALA	N-CA-CB	5.54	117.86	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	187	G	N3-C4-C5	-5.54	125.83	128.60
35	BB	1888	G	C1'-O4'-C4'	-5.54	105.47	109.90
35	BB	2061	G	N1-C2-N2	-5.54	111.21	116.20
35	BB	2307	G	C5-C6-O6	-5.54	125.28	128.60
35	BB	2569	G	C6-C5-N7	-5.54	127.08	130.40
1	AA	255	G	C5-N7-C8	5.54	107.07	104.30
1	AA	525	C	O4'-C1'-N1	5.54	112.63	108.20
1	AA	1302	C	C5'-C4'-O4'	-5.54	102.45	109.10
1	AA	1356	G	C4-C5-N7	5.54	113.02	110.80
1	AA	1363	A	C2-N3-C4	-5.54	107.83	110.60
1	AA	1393	U	C4'-C3'-C2'	-5.54	97.06	102.60
22	AV	14	A	C5-C6-N1	-5.54	114.93	117.70
34	BA	77	U	N1-C2-O2	-5.54	118.92	122.80
35	BB	141	G	OP1-P-OP2	-5.54	111.29	119.60
35	BB	143	C	N3-C2-O2	-5.54	118.02	121.90
35	BB	956	G	N3-C4-N9	-5.54	122.68	126.00
35	BB	1124	G	C5-C6-O6	-5.54	125.28	128.60
35	BB	1472	C	O4'-C4'-C3'	-5.54	98.46	104.00
35	BB	1685	C	N3-C2-O2	-5.54	118.02	121.90
35	BB	2198	A	C4-C5-N7	-5.54	107.93	110.70
35	BB	2218	G	C6-C5-N7	-5.54	127.08	130.40
35	BB	2259	U	C4-C5-C6	-5.54	116.38	119.70
35	BB	2732	G	N3-C4-C5	-5.54	125.83	128.60
35	BB	2830	C	P-O5'-C5'	-5.54	112.04	120.90
1	AA	335	C	P-O3'-C3'	5.54	126.34	119.70
1	AA	1028	C	C4-C5-C6	-5.54	114.63	117.40
35	BB	182	A	C8-N9-C4	-5.54	103.58	105.80
35	BB	401	A	C4'-C3'-C2'	-5.54	97.06	102.60
35	BB	506	G	C5-C6-N1	-5.54	108.73	111.50
35	BB	656	G	C8-N9-C4	-5.54	104.19	106.40
35	BB	951	C	N1-C2-O2	-5.54	115.58	118.90
35	BB	962	G	N3-C2-N2	5.54	123.78	119.90
35	BB	1718	G	O4'-C4'-C3'	-5.54	98.46	104.00
35	BB	2145	C	C2-N3-C4	5.54	122.67	119.90
35	BB	2157	G	N7-C8-N9	-5.54	110.33	113.10
35	BB	2831	G	P-O3'-C3'	5.54	126.34	119.70
1	AA	624	C	N1-C2-O2	-5.54	115.58	118.90
1	AA	953	G	O4'-C1'-N9	5.54	112.63	108.20
1	AA	1115	U	C2-N3-C4	5.54	130.32	127.00
1	AA	1185	G	C3'-C2'-C1'	5.54	105.93	101.50
35	BB	82	U	C5'-C4'-O4'	5.54	115.74	109.10
35	BB	244	A	C2-N3-C4	-5.54	107.83	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1042	G	C4-C5-C6	5.54	122.12	118.80
35	BB	1202	G	O4'-C1'-N9	5.54	112.63	108.20
35	BB	1395	A	C5-C6-N6	-5.54	119.27	123.70
35	BB	1439	A	C6-C5-N7	-5.54	128.43	132.30
35	BB	1838	C	C2-N3-C4	5.54	122.67	119.90
35	BB	1973	G	O4'-C1'-N9	5.54	112.63	108.20
35	BB	2431	U	O4'-C1'-N1	5.54	112.63	108.20
35	BB	2597	G	C6-N1-C2	5.54	128.42	125.10
35	BB	2764	A	C5-C6-N6	-5.54	119.27	123.70
36	BC	263	ASP	CB-CG-OD2	5.54	123.28	118.30
1	AA	241	G	C5-C6-N1	-5.53	108.73	111.50
1	AA	731	G	N9-C4-C5	5.53	107.61	105.40
1	AA	874	G	C4-C5-C6	5.53	122.12	118.80
1	AA	1210	C	C3'-C2'-C1'	-5.53	97.07	101.50
1	AA	1311	A	N7-C8-N9	5.53	116.57	113.80
1	AA	1425	U	O4'-C1'-N1	5.53	112.63	108.20
34	BA	43	C	N3-C4-C5	-5.53	119.69	121.90
35	BB	141	G	C5-C6-O6	-5.53	125.28	128.60
35	BB	626	A	C6-C5-N7	-5.53	128.43	132.30
35	BB	853	C	C5-C4-N4	-5.53	116.33	120.20
35	BB	1102	C	C5-C4-N4	-5.53	116.33	120.20
35	BB	1664	A	C5-C6-N6	-5.53	119.27	123.70
35	BB	1848	A	C8-N9-C4	5.53	108.01	105.80
35	BB	2103	C	C5'-C4'-O4'	5.53	115.74	109.10
35	BB	2890	G	C6-C5-N7	-5.53	127.08	130.40
1	AA	119	A	O4'-C1'-N9	5.53	112.62	108.20
1	AA	210	C	C6-N1-C2	5.53	122.51	120.30
35	BB	197	A	C5-N7-C8	5.53	106.67	103.90
35	BB	503	A	P-O5'-C5'	-5.53	112.05	120.90
35	BB	805	G	N3-C2-N2	5.53	123.77	119.90
35	BB	875	G	C8-N9-C4	-5.53	104.19	106.40
35	BB	2304	G	N3-C4-C5	5.53	131.37	128.60
35	BB	2406	A	C2-N3-C4	-5.53	107.83	110.60
35	BB	2420	C	O4'-C1'-N1	5.53	112.63	108.20
35	BB	2780	G	C2-N3-C4	5.53	114.67	111.90
1	AA	45	G	C4-C5-C6	5.53	122.12	118.80
1	AA	182	A	C6-C5-N7	-5.53	128.43	132.30
1	AA	308	C	C2-N3-C4	5.53	122.67	119.90
1	AA	346	G	C5'-C4'-O4'	5.53	115.74	109.10
1	AA	572	A	C5'-C4'-O4'	-5.53	102.46	109.10
1	AA	792	A	C6-C5-N7	-5.53	128.43	132.30
1	AA	1249	C	C4'-C3'-C2'	-5.53	97.07	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1493	A	C5-C6-N1	-5.53	114.93	117.70
6	AF	53	LYS	N-CA-CB	5.53	120.55	110.60
9	AI	38	PHE	CB-CG-CD1	5.53	124.67	120.80
9	AI	72	SER	N-CA-CB	5.53	118.80	110.50
24	AZ	23	ALA	O-C-N	-5.53	113.85	122.70
35	BB	465	G	O4'-C1'-N9	5.53	112.62	108.20
35	BB	893	C	C6-N1-C1'	-5.53	114.16	120.80
35	BB	1245	G	C6-N1-C2	-5.53	121.78	125.10
35	BB	1281	G	C5-N7-C8	5.53	107.06	104.30
35	BB	1382	G	C5-C6-N1	5.53	114.27	111.50
35	BB	2263	C	C4'-C3'-C2'	-5.53	97.07	102.60
1	AA	80	A	C6-C5-N7	-5.53	128.43	132.30
1	AA	1019	A	C4-C5-N7	-5.53	107.94	110.70
1	AA	1283	U	C5-C6-N1	5.53	125.46	122.70
35	BB	432	A	N9-C4-C5	5.53	108.01	105.80
35	BB	2182	U	O3'-P-O5'	-5.53	93.50	104.00
35	BB	2595	G	C5-C6-N1	-5.53	108.74	111.50
1	AA	82	G	C8-N9-C4	-5.53	104.19	106.40
1	AA	98	A	C6-C5-N7	-5.53	128.43	132.30
1	AA	204	G	C5'-C4'-O4'	-5.53	102.47	109.10
1	AA	768	A	C4'-C3'-C2'	-5.53	97.07	102.60
1	AA	823	C	P-O5'-C5'	-5.53	112.06	120.90
1	AA	918	A	C8-N9-C4	-5.53	103.59	105.80
1	AA	1311	A	C5-C6-N6	-5.53	119.28	123.70
1	AA	1318	A	C4'-C3'-C2'	-5.53	97.07	102.60
22	AV	23	C	N3-C4-N4	5.53	121.87	118.00
35	BB	87	U	O5'-C5'-C4'	-5.53	101.20	111.70
35	BB	473	G	N1-C2-N3	5.53	127.22	123.90
35	BB	563	A	C4-C5-C6	5.53	119.76	117.00
35	BB	830	G	N3-C4-N9	-5.53	122.68	126.00
35	BB	932	U	C5'-C4'-O4'	5.53	115.73	109.10
35	BB	1789	A	N9-C4-C5	5.53	108.01	105.80
35	BB	2112	G	C8-N9-C4	-5.53	104.19	106.40
56	BY	14	ASP	CB-CG-OD1	-5.53	113.33	118.30
1	AA	7	A	C5-C6-N1	-5.53	114.94	117.70
1	AA	115	G	C5-C6-O6	-5.53	125.28	128.60
1	AA	278	G	C4-C5-C6	5.53	122.11	118.80
1	AA	573	A	C6-N1-C2	-5.53	115.28	118.60
1	AA	1222	G	C4-N9-C1'	5.53	133.68	126.50
1	AA	1281	C	N1-C2-N3	5.53	123.07	119.20
1	AA	1512	U	O4'-C1'-N1	5.53	112.62	108.20
23	AX	19	A	C5-C6-N6	-5.53	119.28	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	68	G	O4'-C1'-N9	5.53	112.62	108.20
35	BB	462	C	P-O3'-C3'	-5.53	113.07	119.70
35	BB	1541	C	C4'-C3'-C2'	-5.53	97.08	102.60
35	BB	1821	A	P-O5'-C5'	5.53	129.74	120.90
35	BB	2106	U	C3'-C2'-C1'	5.53	105.92	101.50
35	BB	2766	A	C8-N9-C4	-5.53	103.59	105.80
35	BB	2862	G	C4-C5-N7	-5.53	108.59	110.80
1	AA	1500	A	OP1-P-OP2	-5.52	111.31	119.60
35	BB	192	C	C5-C6-N1	-5.52	118.24	121.00
35	BB	1098	A	C5-C6-N1	-5.52	114.94	117.70
35	BB	1110	G	O4'-C1'-N9	5.52	112.62	108.20
35	BB	1143	A	P-O3'-C3'	5.52	126.33	119.70
35	BB	2337	G	C6-C5-N7	-5.52	127.09	130.40
1	AA	306	A	N1-C2-N3	-5.52	126.54	129.30
1	AA	355	C	C4-C5-C6	5.52	120.16	117.40
1	AA	648	A	C4-C5-C6	5.52	119.76	117.00
1	AA	950	U	N3-C4-O4	-5.52	115.53	119.40
1	AA	1100	C	C2-N3-C4	5.52	122.66	119.90
1	AA	1130	A	C5-C6-N1	-5.52	114.94	117.70
22	AV	3	G	C4-C5-C6	5.52	122.11	118.80
26	B1	55	THR	CA-CB-CG2	-5.52	104.67	112.40
35	BB	439	A	O4'-C1'-N9	5.52	112.62	108.20
35	BB	745	G	C5-C6-N1	-5.52	108.74	111.50
35	BB	877	A	C4-C5-N7	-5.52	107.94	110.70
35	BB	1053	C	C2-N3-C4	5.52	122.66	119.90
35	BB	1074	G	C5-C6-N1	-5.52	108.74	111.50
35	BB	1107	G	C3'-C2'-C1'	5.52	105.92	101.50
35	BB	1280	G	C3'-C2'-C1'	-5.52	97.08	101.50
35	BB	1584	U	C2-N3-C4	5.52	130.31	127.00
35	BB	1873	G	N3-C2-N2	5.52	123.77	119.90
35	BB	2063	C	C6-N1-C1'	-5.52	114.17	120.80
35	BB	2495	G	O4'-C1'-N9	5.52	112.62	108.20
35	BB	2715	C	P-O5'-C5'	5.52	129.74	120.90
35	BB	2850	A	C3'-C2'-C1'	5.52	105.92	101.50
35	BB	2889	C	C5-C4-N4	-5.52	116.33	120.20
1	AA	945	G	C4-C5-C6	5.52	122.11	118.80
1	AA	989	U	C6-N1-C2	-5.52	117.69	121.00
1	AA	1013	G	N9-C4-C5	-5.52	103.19	105.40
1	AA	1198	G	N9-C4-C5	-5.52	103.19	105.40
35	BB	637	A	C5'-C4'-O4'	5.52	115.72	109.10
35	BB	820	A	C5-N7-C8	5.52	106.66	103.90
35	BB	1692	U	P-O3'-C3'	5.52	126.33	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1744	A	N9-C4-C5	5.52	108.01	105.80
35	BB	2800	A	C5-C6-N6	-5.52	119.28	123.70
1	AA	167	A	C5'-C4'-O4'	5.52	115.72	109.10
1	AA	199	A	C5-N7-C8	5.52	106.66	103.90
1	AA	521	G	N9-C4-C5	5.52	107.61	105.40
35	BB	617	G	C5-C6-O6	-5.52	125.29	128.60
35	BB	865	C	O4'-C1'-N1	5.52	112.62	108.20
35	BB	1070	A	N3-C4-C5	-5.52	122.94	126.80
35	BB	1890	A	C4'-C3'-C2'	-5.52	97.08	102.60
35	BB	2033	A	C4'-C3'-C2'	-5.52	97.08	102.60
35	BB	2619	C	O4'-C1'-N1	5.52	112.61	108.20
1	AA	332	G	C8-N9-C1'	5.52	134.17	127.00
1	AA	891	U	O4'-C1'-N1	5.52	112.61	108.20
1	AA	981	U	C5-C4-O4	-5.52	122.59	125.90
1	AA	1078	U	C4'-C3'-C2'	-5.52	97.08	102.60
1	AA	1108	G	N1-C2-N3	-5.52	120.59	123.90
1	AA	1108	G	N3-C2-N2	5.52	123.76	119.90
1	AA	1230	C	O4'-C1'-N1	5.52	112.61	108.20
1	AA	1355	G	C5'-C4'-O4'	5.52	115.72	109.10
35	BB	391	A	C6-C5-N7	-5.52	128.44	132.30
35	BB	522	A	N3-C4-C5	-5.52	122.94	126.80
35	BB	1112	G	N3-C2-N2	5.52	123.76	119.90
35	BB	1230	A	C4-C5-N7	-5.52	107.94	110.70
35	BB	1285	A	N1-C2-N3	-5.52	126.54	129.30
35	BB	1496	A	P-O3'-C3'	5.52	126.32	119.70
35	BB	1641	A	N3-C4-C5	-5.52	122.94	126.80
35	BB	2105	U	N1-C2-O2	-5.52	118.94	122.80
35	BB	2421	G	N9-C4-C5	-5.52	103.19	105.40
35	BB	2704	C	C5-C4-N4	-5.52	116.34	120.20
38	BE	199	MET	N-CA-CB	-5.52	100.67	110.60
56	BY	75	ASN	CB-CG-OD1	-5.52	110.56	121.60
1	AA	892	A	O4'-C1'-N9	5.52	112.61	108.20
1	AA	927	G	C2-N3-C4	-5.52	109.14	111.90
1	AA	1122	U	P-O5'-C5'	5.52	129.73	120.90
35	BB	397	U	C1'-O4'-C4'	-5.52	105.49	109.90
35	BB	1207	C	P-O5'-C5'	-5.52	112.07	120.90
35	BB	2082	A	N3-C4-C5	-5.52	122.94	126.80
35	BB	2108	A	C5'-C4'-O4'	-5.52	102.48	109.10
1	AA	7	A	C6-C5-N7	-5.51	128.44	132.30
1	AA	71	A	C8-N9-C1'	5.51	137.63	127.70
1	AA	241	G	C6-N1-C2	5.51	128.41	125.10
1	AA	697	U	N3-C4-O4	-5.51	115.54	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1086	U	N3-C4-C5	-5.51	111.29	114.60
34	BA	12	C	N3-C4-N4	5.51	121.86	118.00
34	BA	62	C	P-O5'-C5'	5.51	129.72	120.90
35	BB	6	A	C4'-C3'-C2'	-5.51	97.08	102.60
35	BB	414	C	C3'-C2'-C1'	5.51	105.91	101.50
35	BB	661	A	C3'-C2'-C1'	-5.51	97.09	101.50
35	BB	890	C	C5-C4-N4	-5.51	116.34	120.20
35	BB	969	G	O4'-C4'-C3'	-5.51	98.49	104.00
35	BB	1844	C	N3-C4-N4	5.51	121.86	118.00
35	BB	1914	C	C6-N1-C2	-5.51	118.09	120.30
35	BB	2001	C	N3-C4-C5	-5.51	119.69	121.90
35	BB	2038	G	N9-C4-C5	5.51	107.61	105.40
35	BB	2178	C	N3-C4-N4	5.51	121.86	118.00
35	BB	2594	C	P-O5'-C5'	5.51	129.72	120.90
35	BB	2771	C	C2-N1-C1'	5.51	124.87	118.80
35	BB	2781	A	P-O3'-C3'	5.51	126.32	119.70
1	AA	52	C	C5'-C4'-C3'	-5.51	107.18	116.00
1	AA	506	G	C3'-C2'-C1'	-5.51	97.09	101.50
1	AA	943	U	C1'-O4'-C4'	5.51	114.31	109.90
25	B0	71	ARG	N-CA-CB	5.51	120.52	110.60
35	BB	308	G	O4'-C1'-N9	5.51	112.61	108.20
35	BB	1210	G	O4'-C1'-N9	5.51	112.61	108.20
35	BB	2061	G	N9-C4-C5	5.51	107.61	105.40
35	BB	2883	A	P-O3'-C3'	5.51	126.32	119.70
1	AA	11	G	N3-C4-N9	5.51	129.31	126.00
1	AA	219	U	P-O3'-C3'	-5.51	113.09	119.70
1	AA	363	A	P-O3'-C3'	5.51	126.31	119.70
34	BA	55	U	C4'-C3'-C2'	-5.51	97.09	102.60
35	BB	247	G	P-O3'-C3'	5.51	126.31	119.70
35	BB	313	G	C4-C5-N7	-5.51	108.60	110.80
35	BB	319	G	N1-C2-N3	-5.51	120.59	123.90
35	BB	539	G	C6-N1-C2	5.51	128.41	125.10
35	BB	883	G	C5-N7-C8	5.51	107.06	104.30
35	BB	1332	G	N3-C4-N9	5.51	129.31	126.00
35	BB	1653	G	C3'-C2'-C1'	-5.51	97.09	101.50
35	BB	2118	U	O4'-C1'-N1	5.51	112.61	108.20
35	BB	2221	G	C5-N7-C8	-5.51	101.55	104.30
35	BB	2356	U	C5'-C4'-C3'	-5.51	107.18	116.00
35	BB	2473	U	N3-C4-C5	-5.51	111.29	114.60
35	BB	2688	G	C5-C6-N1	5.51	114.26	111.50
35	BB	2702	G	N3-C2-N2	5.51	123.76	119.90
1	AA	415	A	C5-C6-N1	-5.51	114.95	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	852	G	C2-N3-C4	-5.51	109.14	111.90
1	AA	1137	C	N3-C4-C5	-5.51	119.70	121.90
1	AA	1151	A	C2-N3-C4	5.51	113.36	110.60
1	AA	1531	A	C6-C5-N7	-5.51	128.44	132.30
7	AG	32	ASP	CB-CG-OD2	-5.51	113.34	118.30
8	AH	58	LEU	N-CA-C	-5.51	96.12	111.00
22	AV	2	G	N9-C4-C5	-5.51	103.20	105.40
35	BB	281	C	C5'-C4'-O4'	5.51	115.71	109.10
35	BB	923	G	C2-N3-C4	-5.51	109.14	111.90
35	BB	1313	U	P-O3'-C3'	5.51	126.31	119.70
35	BB	1372	U	N3-C4-O4	5.51	123.26	119.40
35	BB	1479	G	C3'-C2'-C1'	5.51	105.91	101.50
35	BB	1745	A	C1'-O4'-C4'	-5.51	105.49	109.90
35	BB	1805	A	C4-C5-C6	5.51	119.75	117.00
35	BB	2622	U	N3-C4-O4	-5.51	115.54	119.40
35	BB	168	G	N1-C6-O6	5.51	123.20	119.90
35	BB	709	U	N1-C2-N3	5.51	118.20	114.90
35	BB	980	A	C5-C6-N6	-5.51	119.29	123.70
35	BB	1093	G	C4-C5-C6	5.51	122.11	118.80
35	BB	1869	G	C3'-C2'-C1'	-5.51	97.09	101.50
35	BB	2601	C	C4-C5-C6	5.51	120.15	117.40
35	BB	2766	A	O4'-C1'-N9	5.51	112.61	108.20
35	BB	2775	G	N3-C4-C5	-5.51	125.85	128.60
1	AA	99	C	C2-N1-C1'	-5.51	112.74	118.80
1	AA	200	G	C4'-C3'-C2'	-5.51	97.09	102.60
1	AA	857	C	C5'-C4'-C3'	5.51	124.81	116.00
1	AA	1092	A	C2-N3-C4	5.51	113.35	110.60
1	AA	1220	G	C5-N7-C8	5.51	107.05	104.30
1	AA	1305	G	C5-C6-O6	-5.51	125.30	128.60
35	BB	993	G	N1-C2-N3	-5.51	120.60	123.90
35	BB	1361	G	N9-C4-C5	5.51	107.60	105.40
35	BB	1454	C	C2-N1-C1'	5.51	124.86	118.80
35	BB	2027	G	N9-C4-C5	-5.51	103.20	105.40
35	BB	2128	G	N3-C2-N2	5.51	123.75	119.90
35	BB	2502	G	N3-C2-N2	5.51	123.75	119.90
35	BB	2634	A	O4'-C1'-N9	5.51	112.61	108.20
49	BP	93	LYS	CD-CE-NZ	5.51	124.36	111.70
35	BB	542	C	OP1-P-OP2	-5.50	111.34	119.60
35	BB	730	A	P-O3'-C3'	-5.50	113.09	119.70
35	BB	1138	G	N3-C4-N9	-5.50	122.70	126.00
35	BB	1980	G	C4-C5-N7	-5.50	108.60	110.80
35	BB	2595	G	C2-N3-C4	5.50	114.65	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2848	G	OP2-P-O3'	5.50	117.31	105.20
35	BB	2883	A	C4-C5-C6	5.50	119.75	117.00
44	BK	56	ASP	CB-CG-OD2	5.50	123.25	118.30
1	AA	90	C	N1-C1'-C2'	-5.50	105.95	112.00
1	AA	142	G	OP1-P-OP2	-5.50	111.34	119.60
1	AA	205	A	C8-N9-C4	-5.50	103.60	105.80
1	AA	211	G	C5-C6-N1	-5.50	108.75	111.50
1	AA	338	A	C4'-C3'-C2'	-5.50	97.10	102.60
1	AA	622	A	N1-C6-N6	5.50	121.90	118.60
1	AA	643	C	O4'-C1'-N1	5.50	112.60	108.20
1	AA	750	C	N3-C4-C5	-5.50	119.70	121.90
1	AA	773	G	C5-C6-N1	-5.50	108.75	111.50
1	AA	811	C	O4'-C1'-N1	5.50	112.60	108.20
1	AA	1277	C	OP2-P-O3'	5.50	117.31	105.20
15	AO	14	PHE	CG-CD2-CE2	-5.50	114.75	120.80
22	AV	57	A	O4'-C1'-N9	5.50	112.60	108.20
35	BB	255	A	C8-N9-C4	-5.50	103.60	105.80
35	BB	620	G	N3-C2-N2	5.50	123.75	119.90
35	BB	886	A	C2-N3-C4	5.50	113.35	110.60
35	BB	2353	G	N1-C2-N3	-5.50	120.60	123.90
35	BB	2433	A	C5-C6-N6	-5.50	119.30	123.70
35	BB	2588	G	C4-C5-N7	-5.50	108.60	110.80
35	BB	2609	U	C4-C5-C6	-5.50	116.40	119.70
35	BB	2693	G	N7-C8-N9	-5.50	110.35	113.10
35	BB	2871	U	N3-C4-C5	-5.50	111.30	114.60
35	BB	2885	G	N3-C4-N9	-5.50	122.70	126.00
1	AA	187	G	O4'-C1'-N9	5.50	112.60	108.20
1	AA	678	U	C5-C6-N1	5.50	125.45	122.70
1	AA	921	U	C5-C6-N1	5.50	125.45	122.70
1	AA	1376	U	P-O5'-C5'	-5.50	112.10	120.90
28	B3	40	HIS	ND1-CG-CD2	5.50	116.50	108.80
35	BB	367	G	N3-C2-N2	5.50	123.75	119.90
35	BB	443	A	C4-C5-C6	5.50	119.75	117.00
35	BB	608	A	C4'-C3'-C2'	-5.50	97.10	102.60
35	BB	826	U	C1'-O4'-C4'	5.50	114.30	109.90
35	BB	941	A	N3-C4-N9	5.50	131.80	127.40
35	BB	1050	A	O4'-C1'-N9	5.50	112.60	108.20
35	BB	1125	G	O4'-C1'-N9	5.50	112.60	108.20
35	BB	1597	A	C5-C6-N6	-5.50	119.30	123.70
35	BB	2199	A	C8-N9-C4	-5.50	103.60	105.80
35	BB	2314	A	C8-N9-C4	-5.50	103.60	105.80
35	BB	2352	A	N7-C8-N9	5.50	116.55	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2444	G	N1-C2-N3	-5.50	120.60	123.90
35	BB	2752	C	C4-C5-C6	5.50	120.15	117.40
1	AA	881	G	C5-C6-N1	-5.50	108.75	111.50
1	AA	1496	C	P-O3'-C3'	-5.50	113.10	119.70
35	BB	1757	A	C8-N9-C4	5.50	108.00	105.80
35	BB	2638	G	O4'-C1'-N9	5.50	112.60	108.20
1	AA	178	C	C1'-O4'-C4'	-5.50	105.50	109.90
1	AA	462	G	O4'-C1'-N9	5.50	112.60	108.20
1	AA	611	C	C5-C4-N4	5.50	124.05	120.20
1	AA	728	A	C2-N3-C4	5.50	113.35	110.60
1	AA	846	G	C5-C6-N1	5.50	114.25	111.50
1	AA	846	G	N3-C4-C5	-5.50	125.85	128.60
1	AA	968	A	N1-C2-N3	5.50	132.05	129.30
1	AA	1497	G	C5-C6-N1	-5.50	108.75	111.50
35	BB	5	A	C6-C5-N7	-5.50	128.45	132.30
35	BB	326	G	N1-C2-N2	-5.50	111.25	116.20
35	BB	546	U	C2-N1-C1'	5.50	124.30	117.70
35	BB	777	G	N3-C4-C5	-5.50	125.85	128.60
35	BB	995	C	N3-C2-O2	-5.50	118.05	121.90
35	BB	1156	A	O4'-C1'-C2'	5.50	112.55	107.60
35	BB	1332	G	N1-C2-N3	-5.50	120.60	123.90
35	BB	1798	U	C2-N3-C4	-5.50	123.70	127.00
35	BB	1895	C	P-O5'-C5'	5.50	129.70	120.90
35	BB	1993	U	OP1-P-OP2	-5.50	111.35	119.60
35	BB	2229	U	N1-C1'-C2'	-5.50	105.95	112.00
35	BB	2288	A	C4-C5-N7	-5.50	107.95	110.70
35	BB	2829	A	OP1-P-OP2	-5.50	111.35	119.60
41	BH	15	LEU	N-CA-CB	5.50	121.40	110.40
53	BT	30	ILE	CB-CA-C	5.50	122.60	111.60
55	BW	28	ALA	N-CA-CB	5.50	117.80	110.10
1	AA	98	A	C2-N3-C4	-5.50	107.85	110.60
1	AA	122	G	N9-C1'-C2'	-5.50	105.95	112.00
1	AA	151	A	N1-C2-N3	-5.50	126.55	129.30
1	AA	347	G	P-O3'-C3'	-5.50	113.11	119.70
1	AA	935	A	C4-C5-C6	5.50	119.75	117.00
1	AA	1117	A	C5'-C4'-C3'	-5.50	107.21	116.00
1	AA	1427	C	OP1-P-OP2	-5.50	111.35	119.60
7	AG	43	TYR	CB-CG-CD2	-5.50	117.70	121.00
22	AV	69	G	C6-N1-C2	-5.50	121.80	125.10
35	BB	221	A	C5-N7-C8	5.50	106.65	103.90
35	BB	530	G	C1'-O4'-C4'	-5.50	105.50	109.90
35	BB	612	G	C2-N3-C4	5.50	114.65	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	729	G	C5-C6-N1	-5.50	108.75	111.50
35	BB	1031	G	C8-N9-C4	-5.50	104.20	106.40
35	BB	1177	G	N9-C4-C5	-5.50	103.20	105.40
35	BB	1377	G	P-O5'-C5'	5.50	129.69	120.90
35	BB	1560	G	C6-N1-C2	-5.50	121.80	125.10
35	BB	1660	G	C6-N1-C2	5.50	128.40	125.10
35	BB	1774	C	C4-C5-C6	-5.50	114.65	117.40
35	BB	2171	A	C5-C6-N1	-5.50	114.95	117.70
35	BB	2304	G	N1-C2-N2	5.50	121.15	116.20
35	BB	2387	U	N1-C2-N3	5.50	118.20	114.90
35	BB	2849	U	N3-C4-O4	5.50	123.25	119.40
56	BY	30	VAL	CA-CB-CG2	-5.50	102.66	110.90
1	AA	565	U	N1-C2-N3	-5.50	111.60	114.90
1	AA	1333	A	C4'-C3'-C2'	-5.50	97.11	102.60
34	BA	23	G	C5-C6-O6	-5.50	125.30	128.60
35	BB	221	A	C5'-C4'-C3'	-5.50	107.21	116.00
35	BB	1046	A	N3-C4-C5	-5.50	122.95	126.80
35	BB	1288	G	N3-C4-C5	-5.50	125.85	128.60
35	BB	2792	A	C1'-O4'-C4'	5.50	114.30	109.90
1	AA	562	U	O4'-C4'-C3'	-5.49	98.51	104.00
1	AA	1025	U	O4'-C1'-N1	5.49	112.59	108.20
1	AA	1050	G	N3-C4-C5	5.49	131.35	128.60
1	AA	1488	G	C5-C6-O6	-5.49	125.30	128.60
10	AJ	68	ARG	CB-CA-C	-5.49	99.41	110.40
11	AK	115	ILE	N-CA-C	-5.49	96.17	111.00
34	BA	52	A	C3'-C2'-C1'	5.49	105.89	101.50
35	BB	119	A	C4'-C3'-C2'	-5.49	97.11	102.60
35	BB	674	G	C5-C6-O6	-5.49	125.30	128.60
35	BB	698	C	C5-C6-N1	5.49	123.75	121.00
35	BB	775	G	N1-C2-N2	-5.49	111.26	116.20
35	BB	1288	G	N3-C2-N2	5.49	123.75	119.90
35	BB	2243	U	O4'-C1'-N1	5.49	112.59	108.20
35	BB	2324	U	N1-C2-N3	5.49	118.20	114.90
35	BB	2802	G	N1-C2-N3	-5.49	120.60	123.90
35	BB	2862	G	O4'-C1'-N9	5.49	112.59	108.20
1	AA	699	C	C4-C5-C6	5.49	120.15	117.40
7	AG	7	GLY	N-CA-C	-5.49	99.37	113.10
22	AV	33	U	O3'-P-O5'	5.49	114.43	104.00
35	BB	6	A	C5-C6-N1	-5.49	114.95	117.70
35	BB	363	G	C8-N9-C1'	-5.49	119.86	127.00
35	BB	945	A	N1-C2-N3	-5.49	126.55	129.30
35	BB	1403	A	C5'-C4'-C3'	5.49	124.79	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1426	G	C2-N3-C4	5.49	114.65	111.90
35	BB	2054	A	N1-C2-N3	-5.49	126.55	129.30
35	BB	2763	G	N1-C2-N3	5.49	127.19	123.90
36	BC	216	ARG	CD-NE-CZ	5.49	131.29	123.60
1	AA	57	G	N1-C2-N2	5.49	121.14	116.20
1	AA	131	A	O4'-C1'-N9	5.49	112.59	108.20
1	AA	197	A	O4'-C1'-N9	-5.49	103.81	108.20
1	AA	939	G	N1-C6-O6	5.49	123.19	119.90
1	AA	1003	G	C8-N9-C4	-5.49	104.20	106.40
1	AA	1373	G	N9-C1'-C2'	-5.49	105.96	112.00
1	AA	1395	C	C2-N1-C1'	-5.49	112.76	118.80
1	AA	1463	U	N3-C2-O2	5.49	126.04	122.20
22	AV	50	G	O4'-C1'-N9	5.49	112.59	108.20
35	BB	1215	G	C5-C6-N1	5.49	114.25	111.50
35	BB	1609	A	C5-C6-N6	-5.49	119.31	123.70
35	BB	1972	G	O4'-C1'-N9	5.49	112.59	108.20
35	BB	2091	C	C5-C4-N4	-5.49	116.36	120.20
35	BB	2116	G	OP2-P-O3'	5.49	117.28	105.20
1	AA	175	C	C2-N1-C1'	5.49	124.84	118.80
1	AA	468	A	C4-C5-C6	-5.49	114.26	117.00
1	AA	888	G	N3-C2-N2	5.49	123.74	119.90
1	AA	1473	G	N1-C2-N2	-5.49	111.26	116.20
1	AA	1525	G	C5-C6-N1	-5.49	108.76	111.50
3	AC	126	ARG	NE-CZ-NH2	-5.49	117.56	120.30
34	BA	17	C	N3-C2-O2	-5.49	118.06	121.90
35	BB	220	G	N1-C2-N3	-5.49	120.61	123.90
35	BB	223	A	C2-N3-C4	-5.49	107.86	110.60
35	BB	298	G	C4-C5-N7	5.49	113.00	110.80
35	BB	739	A	N9-C4-C5	5.49	108.00	105.80
35	BB	752	A	C3'-C2'-C1'	-5.49	97.11	101.50
35	BB	1110	G	C5-N7-C8	-5.49	101.56	104.30
35	BB	1152	C	N1-C2-O2	5.49	122.19	118.90
35	BB	1212	G	C6-C5-N7	-5.49	127.11	130.40
35	BB	1295	C	N1-C2-O2	-5.49	115.61	118.90
35	BB	1497	U	C6-N1-C1'	-5.49	113.52	121.20
35	BB	1831	G	P-O5'-C5'	-5.49	112.12	120.90
35	BB	1987	A	N1-C2-N3	5.49	132.04	129.30
35	BB	2120	G	N1-C2-N2	-5.49	111.26	116.20
35	BB	2229	U	OP1-P-OP2	-5.49	111.37	119.60
35	BB	2245	U	O4'-C1'-N1	5.49	112.59	108.20
35	BB	2340	A	N3-C4-N9	-5.49	123.01	127.40
35	BB	2675	A	C6-N1-C2	5.49	121.89	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2696	U	N3-C4-C5	-5.49	111.31	114.60
35	BB	2787	C	N1-C2-O2	5.49	122.19	118.90
39	BF	88	VAL	CG1-CB-CG2	5.49	119.68	110.90
30	B5	78	PHE	CB-CG-CD2	-5.49	116.96	120.80
35	BB	403	U	P-O3'-C3'	5.49	126.28	119.70
35	BB	420	C	C2-N1-C1'	5.49	124.83	118.80
35	BB	1578	U	C5-C4-O4	5.49	129.19	125.90
35	BB	1641	A	P-O5'-C5'	-5.49	112.12	120.90
35	BB	2294	G	C5-C6-N1	-5.49	108.76	111.50
35	BB	2563	U	C3'-C2'-C1'	5.49	105.89	101.50
35	BB	2857	G	C6-N1-C2	5.49	128.39	125.10
1	AA	176	C	N1-C1'-C2'	-5.49	105.97	112.00
1	AA	241	G	O4'-C1'-N9	5.49	112.59	108.20
1	AA	548	G	C6-C5-N7	-5.49	127.11	130.40
1	AA	852	G	N1-C6-O6	5.49	123.19	119.90
1	AA	910	C	C5-C6-N1	5.49	123.74	121.00
1	AA	936	C	C4-C5-C6	-5.49	114.66	117.40
1	AA	962	C	N1-C2-N3	-5.49	115.36	119.20
1	AA	1199	U	C5-C4-O4	5.49	129.19	125.90
12	AL	65	TYR	CG-CD1-CE1	-5.49	116.91	121.30
34	BA	7	G	C8-N9-C4	5.49	108.59	106.40
35	BB	693	A	N1-C6-N6	5.49	121.89	118.60
35	BB	1085	A	C3'-C2'-C1'	5.49	105.89	101.50
35	BB	1628	G	C5-C6-O6	-5.49	125.31	128.60
35	BB	2283	C	C1'-O4'-C4'	5.49	114.29	109.90
52	BS	60	HIS	C-N-CA	5.49	135.41	121.70
1	AA	113	G	C2-N3-C4	-5.48	109.16	111.90
1	AA	162	A	N1-C2-N3	-5.48	126.56	129.30
1	AA	629	A	N1-C2-N3	5.48	132.04	129.30
1	AA	631	C	C4-C5-C6	-5.48	114.66	117.40
1	AA	633	G	C5-N7-C8	-5.48	101.56	104.30
1	AA	791	G	O4'-C1'-N9	5.48	112.59	108.20
1	AA	1316	G	C5-C6-O6	-5.48	125.31	128.60
22	AV	28	C	N3-C4-N4	5.48	121.84	118.00
35	BB	757	G	O4'-C1'-N9	5.48	112.59	108.20
35	BB	1192	G	C6-C5-N7	-5.48	127.11	130.40
35	BB	1212	G	N7-C8-N9	5.48	115.84	113.10
35	BB	1594	U	C2-N1-C1'	5.48	124.28	117.70
35	BB	1632	A	N1-C2-N3	-5.48	126.56	129.30
35	BB	1871	A	O4'-C1'-N9	5.48	112.59	108.20
35	BB	2316	G	C8-N9-C4	5.48	108.59	106.40
1	AA	546	A	C5-N7-C8	5.48	106.64	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1088	G	N1-C6-O6	5.48	123.19	119.90
1	AA	1514	G	N3-C2-N2	5.48	123.74	119.90
22	AV	31	C	N3-C4-N4	5.48	121.84	118.00
33	B8	20	ASP	CB-CG-OD2	-5.48	113.37	118.30
35	BB	126	A	C5-C6-N6	-5.48	119.31	123.70
35	BB	470	A	C8-N9-C4	-5.48	103.61	105.80
35	BB	508	A	C8-N9-C4	-5.48	103.61	105.80
35	BB	636	G	C6-N1-C2	5.48	128.39	125.10
35	BB	689	A	C5-N7-C8	5.48	106.64	103.90
35	BB	818	G	C8-N9-C4	-5.48	104.21	106.40
35	BB	938	G	N9-C4-C5	-5.48	103.21	105.40
35	BB	961	C	C1'-O4'-C4'	5.48	114.29	109.90
35	BB	1396	U	O4'-C1'-C2'	5.48	112.53	107.60
35	BB	2316	G	P-O5'-C5'	5.48	129.67	120.90
35	BB	2329	U	C1'-O4'-C4'	-5.48	105.52	109.90
1	AA	596	A	N7-C8-N9	-5.48	111.06	113.80
1	AA	633	G	N3-C4-C5	-5.48	125.86	128.60
1	AA	987	G	C5-N7-C8	5.48	107.04	104.30
22	AV	23	C	N3-C4-C5	-5.48	119.71	121.90
23	AX	20	G	O4'-C1'-N9	5.48	112.58	108.20
35	BB	551	G	N1-C2-N3	-5.48	120.61	123.90
35	BB	705	A	C5-C6-N6	-5.48	119.32	123.70
35	BB	849	A	N7-C8-N9	-5.48	111.06	113.80
35	BB	1154	G	N1-C2-N2	-5.48	111.27	116.20
35	BB	1329	U	C5-C6-N1	5.48	125.44	122.70
35	BB	1543	G	C6-N1-C2	5.48	128.39	125.10
35	BB	1900	A	C4-C5-C6	5.48	119.74	117.00
35	BB	2319	G	P-O5'-C5'	5.48	129.67	120.90
35	BB	2647	U	O4'-C1'-N1	5.48	112.58	108.20
35	BB	2734	A	N7-C8-N9	-5.48	111.06	113.80
37	BD	82	PHE	CG-CD1-CE1	5.48	126.83	120.80
37	BD	161	MET	CA-CB-CG	5.48	122.62	113.30
1	AA	447	G	O4'-C1'-N9	5.48	112.58	108.20
1	AA	634	C	N3-C4-N4	5.48	121.83	118.00
34	BA	46	A	N1-C6-N6	5.48	121.89	118.60
35	BB	108	G	C8-N9-C4	-5.48	104.21	106.40
35	BB	381	G	C5-C6-N1	-5.48	108.76	111.50
35	BB	880	G	C4'-C3'-C2'	-5.48	97.12	102.60
35	BB	2139	U	N3-C4-O4	5.48	123.24	119.40
35	BB	2162	G	O4'-C1'-N9	5.48	112.58	108.20
35	BB	2363	G	N3-C4-C5	5.48	131.34	128.60
35	BB	2844	G	C8-N9-C4	-5.48	104.21	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2885	G	N3-C2-N2	5.48	123.73	119.90
1	AA	24	U	O4'-C1'-N1	5.48	112.58	108.20
1	AA	652	U	OP2-P-O3'	5.48	117.25	105.20
1	AA	1065	U	C6-N1-C2	-5.48	117.71	121.00
1	AA	1101	A	O4'-C1'-N9	5.48	112.58	108.20
1	AA	1136	C	C5'-C4'-O4'	5.48	115.67	109.10
35	BB	340	A	N3-C4-N9	5.48	131.78	127.40
35	BB	372	G	O4'-C1'-N9	5.48	112.58	108.20
35	BB	511	U	N1-C2-O2	-5.48	118.97	122.80
35	BB	891	G	C5-C6-O6	-5.48	125.31	128.60
35	BB	1303	G	C2-N3-C4	5.48	114.64	111.90
35	BB	2127	G	N3-C4-N9	-5.48	122.71	126.00
35	BB	2129	C	C5'-C4'-C3'	-5.48	107.23	116.00
35	BB	2281	A	C6-C5-N7	-5.48	128.47	132.30
35	BB	2611	C	N3-C4-C5	-5.48	119.71	121.90
35	BB	2623	G	C5-N7-C8	-5.48	101.56	104.30
1	AA	126	G	N3-C4-C5	5.48	131.34	128.60
1	AA	269	C	C5-C6-N1	-5.48	118.26	121.00
1	AA	1273	C	C3'-C2'-C1'	5.48	105.88	101.50
35	BB	446	G	N7-C8-N9	-5.48	110.36	113.10
35	BB	668	A	C4'-C3'-C2'	-5.48	97.12	102.60
35	BB	1244	A	C3'-C2'-C1'	-5.48	97.12	101.50
35	BB	2035	G	N7-C8-N9	-5.48	110.36	113.10
35	BB	2058	A	C5-C6-N1	-5.48	114.96	117.70
1	AA	264	C	C1'-O4'-C4'	-5.47	105.52	109.90
1	AA	668	G	C4'-C3'-C2'	-5.47	97.12	102.60
34	BA	79	G	OP1-P-OP2	-5.47	111.39	119.60
35	BB	1	G	C6-C5-N7	-5.47	127.11	130.40
35	BB	45	G	OP1-P-O3'	5.47	117.24	105.20
35	BB	97	C	C4-C5-C6	5.47	120.14	117.40
35	BB	302	C	O5'-P-OP2	5.47	117.27	110.70
35	BB	1829	A	C5-C6-N6	-5.47	119.32	123.70
35	BB	2203	U	C5'-C4'-C3'	-5.47	107.24	116.00
35	BB	2677	G	C6-C5-N7	-5.47	127.12	130.40
35	BB	2872	A	C8-N9-C4	-5.47	103.61	105.80
1	AA	295	C	C3'-C2'-C1'	-5.47	97.12	101.50
1	AA	804	U	C5-C4-O4	-5.47	122.62	125.90
1	AA	1185	G	C1'-O4'-C4'	5.47	114.28	109.90
35	BB	220	G	C6-N1-C2	-5.47	121.82	125.10
35	BB	247	G	C8-N9-C1'	-5.47	119.89	127.00
35	BB	673	C	O3'-P-O5'	-5.47	93.60	104.00
35	BB	1546	G	C5-C6-N1	-5.47	108.76	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1552	A	OP1-P-OP2	-5.47	111.39	119.60
35	BB	2765	A	P-O3'-C3'	5.47	126.27	119.70
35	BB	61	C	C5-C6-N1	-5.47	118.27	121.00
35	BB	460	A	C4-C5-C6	5.47	119.74	117.00
35	BB	1603	A	C4-C5-C6	5.47	119.73	117.00
35	BB	1993	U	C5-C6-N1	5.47	125.44	122.70
35	BB	2289	G	N3-C4-C5	5.47	131.34	128.60
1	AA	372	C	O4'-C1'-N1	5.47	112.58	108.20
1	AA	856	C	P-O3'-C3'	-5.47	113.14	119.70
1	AA	1136	C	N1-C2-O2	-5.47	115.62	118.90
1	AA	1476	A	C1'-O4'-C4'	-5.47	105.52	109.90
34	BA	10	G	N3-C2-N2	5.47	123.73	119.90
35	BB	384	A	C5-C6-N6	-5.47	119.33	123.70
35	BB	491	G	C3'-C2'-C1'	-5.47	97.12	101.50
35	BB	924	G	O4'-C4'-C3'	-5.47	98.53	104.00
35	BB	975	A	N1-C2-N3	5.47	132.03	129.30
35	BB	1512	C	C2-N1-C1'	5.47	124.82	118.80
35	BB	1865	U	O3'-P-O5'	-5.47	93.61	104.00
35	BB	2502	G	P-O5'-C5'	5.47	129.65	120.90
35	BB	2783	U	N1-C2-N3	5.47	118.18	114.90
1	AA	1056	U	C5-C4-O4	5.47	129.18	125.90
35	BB	38	A	C5-N7-C8	5.47	106.63	103.90
35	BB	257	C	N3-C4-N4	5.47	121.83	118.00
35	BB	2121	G	N3-C4-N9	-5.47	122.72	126.00
35	BB	2134	A	N1-C2-N3	-5.47	126.57	129.30
35	BB	2896	C	O4'-C1'-N1	5.47	112.57	108.20
1	AA	78	A	C5-C6-N6	-5.47	119.33	123.70
1	AA	81	A	C2-N3-C4	5.47	113.33	110.60
1	AA	199	A	O4'-C1'-N9	5.47	112.57	108.20
1	AA	645	G	N9-C4-C5	5.47	107.59	105.40
1	AA	910	C	N3-C4-N4	5.47	121.83	118.00
1	AA	1076	U	N3-C4-C5	-5.47	111.32	114.60
1	AA	1295	U	O4'-C1'-C2'	-5.47	100.33	105.80
7	AG	125	ASP	CB-CG-OD2	5.47	123.22	118.30
22	AV	7	G	C1'-O4'-C4'	5.47	114.27	109.90
35	BB	1122	G	C4-C5-C6	5.47	122.08	118.80
35	BB	1147	A	C6-C5-N7	-5.47	128.47	132.30
35	BB	2325	G	N1-C2-N2	5.47	121.12	116.20
35	BB	2560	A	C2-N3-C4	-5.47	107.87	110.60
35	BB	2630	G	O4'-C1'-N9	5.47	112.57	108.20
1	AA	120	A	C4'-C3'-C2'	-5.46	97.14	102.60
1	AA	130	A	N7-C8-N9	-5.46	111.07	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	671	G	N1-C2-N3	-5.46	120.62	123.90
1	AA	1463	U	N3-C4-O4	5.46	123.23	119.40
22	AV	17	C	N3-C4-N4	5.46	121.83	118.00
22	AV	28	C	N3-C4-C5	-5.46	119.71	121.90
34	BA	7	G	C5-C6-N1	5.46	114.23	111.50
35	BB	614	A	O4'-C4'-C3'	5.46	110.47	106.10
35	BB	894	U	C4-C5-C6	5.46	122.98	119.70
35	BB	1142	A	C5-C6-N6	-5.46	119.33	123.70
35	BB	1187	G	C5-C6-O6	-5.46	125.32	128.60
35	BB	1597	A	C6-C5-N7	-5.46	128.47	132.30
35	BB	1666	G	C5-C6-O6	-5.46	125.32	128.60
35	BB	1727	C	O4'-C1'-N1	5.46	112.57	108.20
35	BB	1847	A	O4'-C1'-N9	5.46	112.57	108.20
1	AA	793	U	N3-C4-O4	5.46	123.22	119.40
1	AA	1426	G	C4'-C3'-C2'	-5.46	97.14	102.60
5	AE	87	VAL	CA-CB-CG1	5.46	119.09	110.90
35	BB	1432	G	N1-C2-N2	-5.46	111.28	116.20
35	BB	2361	G	C2-N3-C4	5.46	114.63	111.90
35	BB	2519	U	N3-C4-C5	-5.46	111.32	114.60
45	BL	7	SER	CB-CA-C	-5.46	99.72	110.10
52	BS	107	VAL	CA-CB-CG1	-5.46	102.71	110.90
1	AA	357	G	C4-C5-N7	5.46	112.98	110.80
1	AA	435	A	N1-C2-N3	-5.46	126.57	129.30
1	AA	768	A	N3-C4-C5	-5.46	122.98	126.80
1	AA	821	G	C8-N9-C4	-5.46	104.22	106.40
1	AA	994	A	C5-N7-C8	5.46	106.63	103.90
1	AA	1202	U	C4'-C3'-C2'	-5.46	97.14	102.60
35	BB	781	A	C6-C5-N7	-5.46	128.48	132.30
35	BB	891	G	C5-N7-C8	-5.46	101.57	104.30
35	BB	1064	C	C5'-C4'-C3'	-5.46	107.26	116.00
35	BB	1204	A	C5-C6-N6	-5.46	119.33	123.70
35	BB	1249	U	C5-C4-O4	-5.46	122.62	125.90
35	BB	1464	G	C5-N7-C8	5.46	107.03	104.30
35	BB	1795	C	C4-C5-C6	-5.46	114.67	117.40
35	BB	2035	G	OP1-P-OP2	-5.46	111.41	119.60
35	BB	2108	A	C4'-C3'-C2'	-5.46	97.14	102.60
35	BB	2182	U	C1'-O4'-C4'	5.46	114.27	109.90
35	BB	2359	C	P-O5'-C5'	-5.46	112.16	120.90
1	AA	400	C	N3-C2-O2	-5.46	118.08	121.90
1	AA	1326	U	C1'-O4'-C4'	5.46	114.27	109.90
13	AM	10	ASP	CB-CG-OD1	5.46	123.21	118.30
35	BB	1340	U	C5-C6-N1	5.46	125.43	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1537	G	O4'-C1'-N9	5.46	112.57	108.20
35	BB	1959	G	C2-N3-C4	-5.46	109.17	111.90
1	AA	832	G	P-O5'-C5'	-5.46	112.17	120.90
1	AA	952	U	C6-N1-C2	-5.46	117.72	121.00
1	AA	1276	G	C6-C5-N7	-5.46	127.12	130.40
1	AA	1307	U	P-O3'-C3'	-5.46	113.15	119.70
4	AD	31	CYS	N-CA-C	-5.46	96.26	111.00
22	AV	41	C	N3-C4-N4	5.46	121.82	118.00
35	BB	179	C	C5-C4-N4	-5.46	116.38	120.20
35	BB	300	A	N3-C4-C5	-5.46	122.98	126.80
35	BB	793	A	C5'-C4'-C3'	-5.46	107.27	116.00
35	BB	1018	U	N1-C2-O2	-5.46	118.98	122.80
35	BB	1765	U	N3-C4-O4	5.46	123.22	119.40
35	BB	2061	G	N7-C8-N9	5.46	115.83	113.10
35	BB	2144	G	N3-C4-C5	-5.46	125.87	128.60
35	BB	2455	G	C5-N7-C8	5.46	107.03	104.30
35	BB	2836	U	O4'-C4'-C3'	-5.46	98.54	104.00
35	BB	2878	U	C4-C5-C6	5.46	122.98	119.70
1	AA	164	G	O4'-C4'-C3'	-5.46	98.54	104.00
1	AA	223	A	C4-C5-C6	5.46	119.73	117.00
1	AA	290	C	C6-N1-C2	5.46	122.48	120.30
1	AA	359	G	O4'-C1'-N9	5.46	112.56	108.20
1	AA	576	C	N3-C4-N4	5.46	121.82	118.00
1	AA	1442	G	C5-N7-C8	-5.46	101.57	104.30
22	AV	9	A	C5-C6-N1	-5.46	114.97	117.70
35	BB	130	C	N1-C2-O2	5.46	122.17	118.90
35	BB	714	U	C2-N3-C4	-5.46	123.73	127.00
35	BB	1752	C	C4-C5-C6	5.46	120.13	117.40
35	BB	1788	C	C4-C5-C6	-5.46	114.67	117.40
35	BB	2888	C	C5-C4-N4	-5.46	116.38	120.20
51	BR	40	MET	N-CA-CB	5.46	120.42	110.60
1	AA	389	A	C3'-C2'-C1'	5.46	105.86	101.50
1	AA	557	G	N3-C2-N2	5.46	123.72	119.90
34	BA	61	G	C2-N3-C4	5.46	114.63	111.90
35	BB	229	C	N3-C4-N4	5.46	121.82	118.00
35	BB	655	A	P-O3'-C3'	5.46	126.25	119.70
35	BB	2108	A	N3-C4-C5	-5.46	122.98	126.80
35	BB	2728	U	C4'-C3'-C2'	-5.46	97.14	102.60
1	AA	429	U	O4'-C1'-C2'	-5.45	100.35	105.80
1	AA	520	A	C8-N9-C4	-5.45	103.62	105.80
1	AA	1101	A	C6-C5-N7	-5.45	128.48	132.30
1	AA	1399	C	O4'-C1'-C2'	-5.45	100.35	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	90	U	C3'-C2'-C1'	-5.45	97.14	101.50
35	BB	768	G	C5-C6-N1	-5.45	108.77	111.50
35	BB	780	G	C5-C6-O6	-5.45	125.33	128.60
35	BB	1026	G	C4-C5-N7	5.45	112.98	110.80
35	BB	1482	G	N3-C4-C5	-5.45	125.87	128.60
35	BB	1623	G	OP1-P-OP2	-5.45	111.42	119.60
35	BB	1802	A	O4'-C1'-N9	5.45	112.56	108.20
35	BB	1811	G	C1'-O4'-C4'	5.45	114.26	109.90
35	BB	1887	C	C5-C4-N4	-5.45	116.38	120.20
35	BB	1911	U	N1-C2-O2	-5.45	118.98	122.80
35	BB	2235	G	N3-C4-N9	5.45	129.27	126.00
35	BB	2365	G	C4-N9-C1'	5.45	133.59	126.50
35	BB	2444	G	O4'-C1'-N9	5.45	112.56	108.20
35	BB	2695	U	OP1-P-OP2	-5.45	111.42	119.60
1	AA	421	U	C2-N3-C4	-5.45	123.73	127.00
1	AA	1127	G	C5-C6-O6	5.45	131.87	128.60
1	AA	196	A	C4'-C3'-C2'	-5.45	97.15	102.60
1	AA	373	A	N3-C4-C5	-5.45	122.98	126.80
1	AA	453	G	C6-N1-C2	-5.45	121.83	125.10
1	AA	499	A	C4-C5-C6	5.45	119.72	117.00
1	AA	572	A	C5-N7-C8	5.45	106.62	103.90
1	AA	639	G	N9-C1'-C2'	-5.45	106.00	112.00
1	AA	890	G	N3-C2-N2	5.45	123.72	119.90
1	AA	1234	C	O4'-C1'-N1	5.45	112.56	108.20
1	AA	1400	C	C5'-C4'-O4'	5.45	115.64	109.10
20	AT	21	ALA	N-CA-CB	5.45	117.73	110.10
35	BB	30	G	C3'-C2'-C1'	5.45	105.86	101.50
35	BB	176	A	P-O5'-C5'	5.45	129.62	120.90
35	BB	204	A	C3'-C2'-C1'	-5.45	97.14	101.50
35	BB	462	C	C5-C4-N4	5.45	124.02	120.20
35	BB	592	A	C6-N1-C2	-5.45	115.33	118.60
35	BB	1567	G	N1-C6-O6	5.45	123.17	119.90
35	BB	1694	C	C2-N3-C4	5.45	122.62	119.90
35	BB	1839	G	C4-C5-N7	5.45	112.98	110.80
35	BB	2143	C	N1-C2-N3	5.45	123.02	119.20
35	BB	2281	A	C8-N9-C4	-5.45	103.62	105.80
35	BB	2560	A	C5-C6-N1	-5.45	114.97	117.70
35	BB	2598	A	C6-C5-N7	-5.45	128.49	132.30
35	BB	2712	C	C5-C6-N1	-5.45	118.28	121.00
1	AA	11	G	N9-C4-C5	-5.45	103.22	105.40
1	AA	588	G	C6-N1-C2	5.45	128.37	125.10
1	AA	1106	G	C4-C5-C6	5.45	122.07	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1174	G	C5-C6-N1	-5.45	108.78	111.50
15	AO	62	ARG	NE-CZ-NH2	-5.45	117.58	120.30
34	BA	26	C	C1'-O4'-C4'	-5.45	105.54	109.90
35	BB	235	U	N1-C2-N3	5.45	118.17	114.90
35	BB	362	A	C2-N3-C4	5.45	113.32	110.60
35	BB	388	G	N3-C4-C5	5.45	131.32	128.60
35	BB	819	A	C4-C5-N7	-5.45	107.98	110.70
35	BB	1431	A	OP2-P-O3'	5.45	117.19	105.20
35	BB	1461	C	C5-C4-N4	-5.45	116.39	120.20
35	BB	1647	U	P-O3'-C3'	-5.45	113.16	119.70
35	BB	1684	G	N3-C4-C5	-5.45	125.88	128.60
35	BB	1787	A	OP1-P-OP2	-5.45	111.43	119.60
35	BB	1800	C	C6-N1-C2	5.45	122.48	120.30
35	BB	2469	A	O4'-C1'-N9	5.45	112.56	108.20
35	BB	2582	G	C6-C5-N7	-5.45	127.13	130.40
35	BB	2780	G	N1-C2-N3	-5.45	120.63	123.90
48	BO	106	LEU	CB-CG-CD1	5.45	120.26	111.00
1	AA	844	G	OP1-P-OP2	-5.45	111.43	119.60
1	AA	906	A	C5-N7-C8	5.45	106.62	103.90
3	AC	159	ALA	N-CA-CB	5.45	117.73	110.10
6	AF	87	SER	N-CA-CB	5.45	118.67	110.50
35	BB	7	G	N7-C8-N9	-5.45	110.38	113.10
35	BB	238	C	C5-C6-N1	-5.45	118.28	121.00
35	BB	356	G	P-O5'-C5'	-5.45	112.19	120.90
35	BB	548	G	C8-N9-C1'	-5.45	119.92	127.00
35	BB	2277	G	C4-C5-C6	5.45	122.07	118.80
35	BB	2808	G	C2-N3-C4	5.45	114.62	111.90
1	AA	366	A	N3-C4-N9	-5.45	123.04	127.40
1	AA	442	G	C4-C5-N7	-5.45	108.62	110.80
1	AA	515	G	C8-N9-C1'	5.45	134.08	127.00
1	AA	1183	U	N1-C2-O2	-5.45	118.99	122.80
1	AA	1526	G	C8-N9-C4	-5.45	104.22	106.40
35	BB	137	U	P-O5'-C5'	5.45	129.61	120.90
35	BB	187	G	N7-C8-N9	-5.45	110.38	113.10
35	BB	278	A	C5-C6-N1	-5.45	114.98	117.70
35	BB	452	G	C6-C5-N7	-5.45	127.13	130.40
35	BB	468	G	O4'-C1'-N9	5.45	112.56	108.20
35	BB	858	G	N3-C2-N2	5.45	123.71	119.90
35	BB	924	G	N9-C4-C5	-5.45	103.22	105.40
35	BB	983	A	C4-C5-N7	-5.45	107.98	110.70
35	BB	995	C	N1-C2-N3	5.45	123.01	119.20
35	BB	1040	A	N1-C6-N6	5.45	121.87	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2295	C	C4'-C3'-C2'	-5.45	97.16	102.60
35	BB	2657	A	C8-N9-C4	5.45	107.98	105.80
36	BC	95	TYR	CG-CD1-CE1	-5.45	116.94	121.30
1	AA	763	G	C3'-C2'-C1'	5.44	105.86	101.50
35	BB	116	C	C2-N1-C1'	5.44	124.79	118.80
35	BB	468	G	O5'-P-OP2	5.44	117.23	110.70
35	BB	2456	C	C2-N3-C4	-5.44	117.18	119.90
1	AA	330	C	C1'-O4'-C4'	-5.44	105.55	109.90
1	AA	620	C	N3-C4-N4	5.44	121.81	118.00
1	AA	751	U	N1-C2-N3	-5.44	111.63	114.90
1	AA	1246	A	N1-C6-N6	5.44	121.87	118.60
1	AA	1505	G	N1-C2-N3	-5.44	120.64	123.90
4	AD	124	VAL	CA-CB-CG1	-5.44	102.73	110.90
35	BB	68	G	OP1-P-OP2	-5.44	111.44	119.60
35	BB	448	U	C2-N1-C1'	5.44	124.23	117.70
35	BB	491	G	N1-C2-N2	5.44	121.10	116.20
35	BB	713	G	C6-C5-N7	-5.44	127.13	130.40
35	BB	809	G	N7-C8-N9	5.44	115.82	113.10
35	BB	904	G	C4-C5-N7	-5.44	108.62	110.80
35	BB	1383	A	C5-C6-N1	-5.44	114.98	117.70
35	BB	1407	G	C4-C5-C6	5.44	122.06	118.80
35	BB	1619	G	O4'-C1'-N9	5.44	112.55	108.20
35	BB	1919	A	C5-N7-C8	5.44	106.62	103.90
35	BB	2095	A	O4'-C1'-N9	5.44	112.55	108.20
35	BB	2172	U	N3-C4-O4	5.44	123.21	119.40
35	BB	2528	U	C6-N1-C2	-5.44	117.73	121.00
35	BB	2673	G	N3-C2-N2	5.44	123.71	119.90
1	AA	21	G	C6-C5-N7	-5.44	127.14	130.40
1	AA	284	C	C5-C4-N4	-5.44	116.39	120.20
1	AA	445	G	N3-C2-N2	5.44	123.71	119.90
1	AA	1288	A	O4'-C1'-C2'	5.44	112.50	107.60
1	AA	1352	C	N3-C2-O2	5.44	125.71	121.90
17	AQ	5	ARG	NE-CZ-NH1	5.44	123.02	120.30
35	BB	403	U	C5-C6-N1	5.44	125.42	122.70
35	BB	509	C	N1-C2-O2	-5.44	115.64	118.90
35	BB	834	G	N9-C4-C5	-5.44	103.22	105.40
35	BB	1568	G	O4'-C1'-N9	5.44	112.55	108.20
35	BB	2265	U	O4'-C4'-C3'	-5.44	98.56	104.00
35	BB	2664	G	C5'-C4'-C3'	-5.44	107.30	116.00
1	AA	80	A	C2-N3-C4	5.44	113.32	110.60
1	AA	389	A	N3-C4-N9	5.44	131.75	127.40
1	AA	588	G	N3-C2-N2	5.44	123.71	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	108	A	N7-C8-N9	5.44	116.52	113.80
35	BB	2035	G	C5-C6-N1	-5.44	108.78	111.50
35	BB	2277	G	N3-C4-N9	5.44	129.26	126.00
35	BB	2414	G	C8-N9-C4	-5.44	104.22	106.40
35	BB	2645	G	C4-C5-N7	5.44	112.98	110.80
35	BB	2655	G	C5-N7-C8	5.44	107.02	104.30
1	AA	11	G	OP1-P-OP2	-5.44	111.44	119.60
1	AA	372	C	C5-C4-N4	-5.44	116.39	120.20
1	AA	452	A	C5-C6-N1	-5.44	114.98	117.70
1	AA	808	C	N3-C4-N4	5.44	121.81	118.00
1	AA	1034	G	C4-N9-C1'	5.44	133.57	126.50
1	AA	1340	A	C8-N9-C4	5.44	107.97	105.80
35	BB	1043	C	C5-C6-N1	-5.44	118.28	121.00
35	BB	1611	C	N1-C2-N3	-5.44	115.39	119.20
35	BB	2411	A	C6-N1-C2	-5.44	115.34	118.60
35	BB	2597	G	P-O3'-C3'	5.44	126.23	119.70
35	BB	2681	C	C5-C6-N1	-5.44	118.28	121.00
1	AA	76	G	C5-N7-C8	5.44	107.02	104.30
1	AA	501	C	N3-C4-N4	5.44	121.81	118.00
1	AA	663	A	N9-C4-C5	-5.44	103.63	105.80
1	AA	1110	A	C3'-C2'-C1'	-5.44	97.15	101.50
7	AG	4	ARG	NE-CZ-NH2	-5.44	117.58	120.30
22	AV	58	A	C5-C6-N6	-5.44	119.35	123.70
35	BB	252	G	C1'-O4'-C4'	5.44	114.25	109.90
35	BB	448	U	OP1-P-OP2	-5.44	111.45	119.60
35	BB	2338	C	O5'-C5'-C4'	-5.44	101.37	111.70
35	BB	2691	C	N3-C4-C5	-5.44	119.72	121.90
44	BK	64	ARG	NE-CZ-NH1	5.44	123.02	120.30
1	AA	986	U	C3'-C2'-C1'	5.43	105.85	101.50
1	AA	1133	G	N1-C6-O6	5.43	123.16	119.90
5	AE	49	TYR	CG-CD2-CE2	5.43	125.65	121.30
35	BB	309	A	C2-N3-C4	-5.43	107.88	110.60
35	BB	702	U	N1-C2-N3	-5.43	111.64	114.90
35	BB	1098	A	P-O3'-C3'	-5.43	113.18	119.70
35	BB	1173	U	C1'-O4'-C4'	5.43	114.25	109.90
35	BB	1446	C	C5-C4-N4	-5.43	116.39	120.20
35	BB	1571	A	O4'-C1'-N9	5.43	112.55	108.20
35	BB	2173	A	C4-C5-N7	-5.43	107.98	110.70
35	BB	2309	A	C2-N3-C4	-5.43	107.88	110.60
35	BB	2534	A	C2-N3-C4	-5.43	107.88	110.60
35	BB	2560	A	P-O3'-C3'	-5.43	113.18	119.70
1	AA	1268	G	C4-C5-C6	5.43	122.06	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1305	G	N7-C8-N9	5.43	115.82	113.10
22	AV	62	C	N3-C4-C5	-5.43	119.73	121.90
34	BA	103	U	O4'-C1'-N1	5.43	112.55	108.20
35	BB	635	C	C1'-O4'-C4'	5.43	114.25	109.90
35	BB	1008	A	O3'-P-O5'	-5.43	93.68	104.00
35	BB	1065	U	P-O5'-C5'	5.43	129.59	120.90
35	BB	1610	A	C6-N1-C2	-5.43	115.34	118.60
35	BB	1812	U	C2-N3-C4	-5.43	123.74	127.00
35	BB	1869	G	C4-C5-C6	5.43	122.06	118.80
35	BB	2490	G	O4'-C1'-C2'	5.43	112.49	107.60
35	BB	2516	A	C6-C5-N7	-5.43	128.50	132.30
35	BB	2541	A	C4-C5-C6	5.43	119.72	117.00
39	BF	149	ARG	C-N-CA	5.43	133.71	122.30
51	BR	27	ILE	N-CA-CB	5.43	123.30	110.80
1	AA	242	G	N7-C8-N9	5.43	115.81	113.10
1	AA	1141	C	C4'-C3'-C2'	-5.43	97.17	102.60
15	AO	8	ALA	CB-CA-C	-5.43	101.95	110.10
35	BB	26	G	C4-C5-C6	5.43	122.06	118.80
35	BB	617	G	N1-C2-N3	-5.43	120.64	123.90
35	BB	1158	C	C4-C5-C6	5.43	120.11	117.40
35	BB	1674	G	C5-N7-C8	5.43	107.02	104.30
35	BB	2046	G	C5-C6-O6	-5.43	125.34	128.60
35	BB	2048	G	C5-C6-O6	-5.43	125.34	128.60
1	AA	1140	C	N3-C4-N4	5.43	121.80	118.00
8	AH	64	TYR	N-CA-CB	5.43	120.37	110.60
9	AI	11	ARG	NE-CZ-NH2	-5.43	117.58	120.30
12	AL	48	LEU	CB-CG-CD2	5.43	120.23	111.00
32	B7	5	THR	CA-CB-CG2	-5.43	104.80	112.40
34	BA	64	G	C4-C5-C6	5.43	122.06	118.80
35	BB	1236	G	N9-C1'-C2'	-5.43	106.03	112.00
35	BB	1872	A	C5'-C4'-C3'	5.43	124.69	116.00
35	BB	1889	A	C6-C5-N7	-5.43	128.50	132.30
35	BB	2082	A	C5-C6-N1	-5.43	114.98	117.70
35	BB	2116	G	P-O3'-C3'	5.43	126.22	119.70
35	BB	2606	C	P-O3'-C3'	-5.43	113.18	119.70
35	BB	2642	G	C3'-C2'-C1'	5.43	105.84	101.50
1	AA	1207	G	C4'-C3'-C2'	-5.43	97.17	102.60
3	AC	5	HIS	CA-CB-CG	5.43	122.83	113.60
6	AF	62	MET	N-CA-CB	5.43	120.37	110.60
34	BA	62	C	P-O3'-C3'	-5.43	113.19	119.70
35	BB	742	A	O4'-C4'-C3'	-5.43	98.57	104.00
35	BB	939	G	O4'-C1'-N9	5.43	112.54	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1177	G	C4-C5-C6	5.43	122.06	118.80
35	BB	2226	C	C4-C5-C6	-5.43	114.69	117.40
35	BB	2685	G	N3-C2-N2	5.43	123.70	119.90
1	AA	153	C	N1-C2-N3	-5.43	115.40	119.20
1	AA	506	G	N1-C2-N3	-5.43	120.64	123.90
1	AA	610	U	C2-N3-C4	5.43	130.25	127.00
1	AA	755	G	C1'-O4'-C4'	-5.43	105.56	109.90
1	AA	898	G	N9-C1'-C2'	-5.43	106.03	112.00
1	AA	954	G	O4'-C1'-N9	5.43	112.54	108.20
3	AC	22	PHE	CB-CA-C	-5.43	99.55	110.40
35	BB	95	A	O4'-C1'-N9	5.43	112.54	108.20
35	BB	230	G	C5-N7-C8	-5.43	101.59	104.30
35	BB	486	C	N3-C4-N4	5.43	121.80	118.00
35	BB	1041	G	P-O3'-C3'	-5.43	113.19	119.70
35	BB	1095	A	C5-N7-C8	5.43	106.61	103.90
35	BB	1173	U	O5'-C5'-C4'	-5.43	101.39	111.70
35	BB	1514	G	C4-C5-C6	5.43	122.06	118.80
35	BB	1514	G	N3-C2-N2	5.43	123.70	119.90
35	BB	1695	G	N7-C8-N9	5.43	115.81	113.10
35	BB	1970	A	C8-N9-C4	-5.43	103.63	105.80
35	BB	2169	A	C4-N9-C1'	5.43	136.07	126.30
35	BB	2600	A	C4-C5-N7	-5.43	107.99	110.70
35	BB	2628	C	N3-C4-C5	-5.43	119.73	121.90
35	BB	2744	G	C1'-O4'-C4'	5.43	114.24	109.90
1	AA	718	A	C6-N1-C2	5.42	121.86	118.60
1	AA	1463	U	C2-N3-C4	5.42	130.25	127.00
1	AA	1511	G	C4-C5-C6	5.42	122.06	118.80
3	AC	21	TRP	CE3-CZ3-CH2	-5.42	115.23	121.20
7	AG	25	PHE	CG-CD2-CE2	-5.42	114.83	120.80
34	BA	113	C	N1-C2-O2	-5.42	115.65	118.90
34	BA	118	C	OP1-P-OP2	-5.42	111.46	119.60
35	BB	281	C	C5-C4-N4	-5.42	116.40	120.20
35	BB	419	U	C2-N1-C1'	5.42	124.21	117.70
35	BB	918	A	C6-C5-N7	-5.42	128.50	132.30
35	BB	2311	A	C1'-O4'-C4'	5.42	114.24	109.90
51	BR	79	ARG	NE-CZ-NH1	-5.42	117.59	120.30
1	AA	595	A	C5-C6-N1	-5.42	114.99	117.70
1	AA	1094	G	C2-N3-C4	5.42	114.61	111.90
34	BA	105	G	N1-C6-O6	5.42	123.15	119.90
35	BB	220	G	C8-N9-C4	5.42	108.57	106.40
35	BB	559	G	C5'-C4'-O4'	-5.42	102.59	109.10
35	BB	614	A	C6-C5-N7	-5.42	128.50	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2633	G	C4-C5-C6	5.42	122.05	118.80
1	AA	208	U	P-O3'-C3'	-5.42	113.19	119.70
1	AA	557	G	OP1-P-OP2	-5.42	111.47	119.60
1	AA	636	U	N3-C4-O4	5.42	123.19	119.40
1	AA	640	A	C4-C5-N7	-5.42	107.99	110.70
1	AA	885	G	C6-C5-N7	-5.42	127.15	130.40
1	AA	1371	G	C2-N3-C4	-5.42	109.19	111.90
1	AA	1496	C	C5-C6-N1	5.42	123.71	121.00
34	BA	19	C	C5-C4-N4	5.42	124.00	120.20
35	BB	151	C	N1-C2-O2	-5.42	115.65	118.90
35	BB	770	G	N7-C8-N9	5.42	115.81	113.10
35	BB	1023	U	P-O3'-C3'	5.42	126.20	119.70
35	BB	2024	G	C6-N1-C2	5.42	128.35	125.10
38	BE	53	THR	CA-CB-CG2	-5.42	104.81	112.40
41	BH	69	ALA	CB-CA-C	-5.42	101.97	110.10
46	BM	64	TRP	CE3-CZ3-CH2	-5.42	115.24	121.20
1	AA	508	U	C5'-C4'-C3'	-5.42	107.33	116.00
1	AA	1384	C	P-O3'-C3'	-5.42	113.20	119.70
1	AA	1447	A	C4-C5-N7	-5.42	107.99	110.70
35	BB	61	C	C2-N3-C4	5.42	122.61	119.90
35	BB	516	C	N1-C2-O2	-5.42	115.65	118.90
35	BB	585	G	N1-C2-N3	-5.42	120.65	123.90
35	BB	750	A	C6-C5-N7	-5.42	128.51	132.30
35	BB	1194	A	C5-N7-C8	5.42	106.61	103.90
35	BB	2152	G	C5-N7-C8	5.42	107.01	104.30
35	BB	2312	U	N1-C2-O2	5.42	126.59	122.80
1	AA	399	G	C4-C5-N7	5.42	112.97	110.80
1	AA	501	C	C6-N1-C2	5.42	122.47	120.30
1	AA	1249	C	P-O5'-C5'	5.42	129.57	120.90
1	AA	1358	U	C5-C4-O4	-5.42	122.65	125.90
9	AI	89	TYR	CB-CG-CD1	-5.42	117.75	121.00
27	B2	57	GLU	N-CA-CB	5.42	120.35	110.60
34	BA	47	C	N3-C2-O2	-5.42	118.11	121.90
35	BB	25	U	N3-C4-C5	-5.42	111.35	114.60
35	BB	48	G	C4-C5-C6	-5.42	115.55	118.80
35	BB	202	U	C5'-C4'-C3'	-5.42	107.33	116.00
35	BB	271	G	O4'-C1'-N9	5.42	112.53	108.20
35	BB	609	A	C6-N1-C2	5.42	121.85	118.60
35	BB	1093	G	C8-N9-C4	-5.42	104.23	106.40
35	BB	1277	G	N1-C2-N3	-5.42	120.65	123.90
35	BB	1414	C	C5'-C4'-C3'	-5.42	107.33	116.00
35	BB	2153	C	C4-C5-C6	5.42	120.11	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2215	C	N3-C4-C5	-5.42	119.73	121.90
35	BB	2236	U	C5-C4-O4	5.42	129.15	125.90
35	BB	2604	U	O5'-P-OP1	-5.42	100.82	105.70
35	BB	2658	C	C2-N1-C1'	-5.42	112.84	118.80
54	BU	24	VAL	CG1-CB-CG2	-5.42	102.23	110.90
1	AA	104	G	C5'-C4'-C3'	-5.42	107.33	116.00
1	AA	107	G	C4-C5-C6	5.42	122.05	118.80
1	AA	436	C	C6-N1-C2	-5.42	118.13	120.30
1	AA	729	A	C5-C6-N1	-5.42	114.99	117.70
1	AA	799	G	N1-C2-N2	-5.42	111.33	116.20
1	AA	1141	C	O4'-C1'-N1	5.42	112.53	108.20
1	AA	1221	G	C4'-C3'-C2'	-5.42	97.18	102.60
1	AA	1279	G	C5-N7-C8	-5.42	101.59	104.30
1	AA	1342	C	N3-C4-C5	-5.42	119.73	121.90
1	AA	1343	G	O4'-C1'-C2'	-5.42	100.38	105.80
1	AA	1402	C	C6-N1-C2	-5.42	118.13	120.30
1	AA	1407	C	P-O3'-C3'	5.42	126.20	119.70
7	AG	11	ILE	N-CA-C	-5.42	96.38	111.00
35	BB	169	G	C4-C5-N7	-5.42	108.63	110.80
35	BB	358	U	O4'-C1'-N1	5.42	112.53	108.20
35	BB	723	C	C2-N3-C4	5.42	122.61	119.90
35	BB	1501	G	C6-C5-N7	-5.42	127.15	130.40
35	BB	1746	A	C4-C5-N7	-5.42	107.99	110.70
35	BB	2012	G	N9-C4-C5	5.42	107.57	105.40
35	BB	2376	A	C2'-C3'-O3'	5.42	122.37	113.70
35	BB	2700	A	N9-C4-C5	5.42	107.97	105.80
35	BB	2741	A	C5-C6-N6	-5.42	119.37	123.70
35	BB	2763	G	C4-C5-C6	5.42	122.05	118.80
35	BB	2801	G	C5-N7-C8	-5.42	101.59	104.30
35	BB	2903	U	N3-C4-O4	5.42	123.19	119.40
1	AA	603	U	C5-C6-N1	-5.42	119.99	122.70
1	AA	657	U	C4-C5-C6	5.42	122.95	119.70
1	AA	1499	A	C5-C6-N6	-5.42	119.37	123.70
22	AV	48	C	N3-C4-C5	-5.42	119.73	121.90
35	BB	1884	G	N9-C4-C5	5.42	107.57	105.40
35	BB	2047	C	C2-N1-C1'	5.42	124.76	118.80
35	BB	2579	C	C5-C6-N1	5.42	123.71	121.00
1	AA	422	C	C2-N3-C4	5.41	122.61	119.90
1	AA	508	U	OP1-P-OP2	-5.41	111.48	119.60
1	AA	777	A	N3-C4-N9	-5.41	123.07	127.40
5	AE	59	ILE	CA-CB-CG1	5.41	121.29	111.00
17	AQ	14	ASP	CB-CG-OD2	5.41	123.17	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	86	G	N9-C1'-C2'	-5.41	106.04	112.00
35	BB	169	G	N9-C4-C5	5.41	107.56	105.40
35	BB	222	A	C5-C6-N1	-5.41	114.99	117.70
35	BB	395	U	C2-N3-C4	-5.41	123.75	127.00
35	BB	978	G	N3-C2-N2	5.41	123.69	119.90
35	BB	1159	U	C4-C5-C6	5.41	122.95	119.70
35	BB	1347	A	C5-N7-C8	5.41	106.61	103.90
35	BB	1443	U	N1-C2-N3	-5.41	111.65	114.90
35	BB	1721	G	O5'-C5'-C4'	-5.41	101.42	111.70
35	BB	2370	G	C4-N9-C1'	5.41	133.54	126.50
35	BB	2420	C	N3-C4-N4	5.41	121.79	118.00
35	BB	2664	G	N9-C4-C5	-5.41	103.23	105.40
35	BB	2852	G	C4-C5-C6	5.41	122.05	118.80
1	AA	578	C	O4'-C1'-N1	5.41	112.53	108.20
1	AA	1184	G	C8-N9-C4	5.41	108.56	106.40
1	AA	598	U	P-O5'-C5'	-5.41	112.24	120.90
1	AA	729	A	C1'-O4'-C4'	-5.41	105.57	109.90
1	AA	948	C	C6-N1-C2	5.41	122.46	120.30
1	AA	1020	G	N3-C2-N2	5.41	123.69	119.90
1	AA	1023	U	C3'-C2'-C1'	5.41	105.83	101.50
1	AA	1262	C	C6-N1-C1'	-5.41	114.31	120.80
1	AA	1449	C	N3-C4-N4	5.41	121.79	118.00
34	BA	99	A	C6-N1-C2	-5.41	115.35	118.60
35	BB	1132	U	C5-C6-N1	-5.41	120.00	122.70
35	BB	1188	U	O4'-C4'-C3'	-5.41	98.59	104.00
35	BB	1196	C	C5-C4-N4	5.41	123.99	120.20
35	BB	1652	A	C4-C5-C6	5.41	119.70	117.00
35	BB	1707	G	P-O3'-C3'	-5.41	113.21	119.70
35	BB	1897	G	C4-C5-N7	5.41	112.97	110.80
35	BB	2173	A	C2-N3-C4	-5.41	107.89	110.60
35	BB	2697	G	P-O3'-C3'	-5.41	113.21	119.70
35	BB	2775	G	N9-C1'-C2'	-5.41	106.05	112.00
35	BB	2869	G	C4'-C3'-C2'	-5.41	97.19	102.60
36	BC	65	ASP	CB-CG-OD1	5.41	123.17	118.30
1	AA	83	C	N3-C4-N4	5.41	121.78	118.00
1	AA	465	A	C8-N9-C4	5.41	107.96	105.80
1	AA	713	G	N1-C6-O6	-5.41	116.66	119.90
1	AA	1034	G	N3-C2-N2	-5.41	116.11	119.90
1	AA	1078	U	C5-C4-O4	5.41	129.15	125.90
1	AA	1514	G	C4'-C3'-C2'	-5.41	97.19	102.60
1	AA	1515	G	C5'-C4'-O4'	5.41	115.59	109.10
31	B6	42	LEU	CB-CA-C	5.41	120.48	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	111	A	O4'-C1'-N9	5.41	112.53	108.20
35	BB	667	U	N1-C2-N3	5.41	118.14	114.90
35	BB	1512	C	N1-C2-N3	5.41	122.99	119.20
1	AA	1298	U	N3-C4-C5	-5.41	111.36	114.60
1	AA	1485	U	C5-C6-N1	-5.41	120.00	122.70
35	BB	907	G	C6-N1-C2	5.41	128.34	125.10
35	BB	2398	U	N3-C4-O4	5.41	123.19	119.40
35	BB	2405	G	C1'-O4'-C4'	5.41	114.23	109.90
35	BB	2478	A	N7-C8-N9	-5.41	111.10	113.80
1	AA	132	C	C2-N3-C4	5.41	122.60	119.90
1	AA	683	G	N7-C8-N9	5.41	115.80	113.10
1	AA	742	G	N9-C4-C5	-5.41	103.24	105.40
1	AA	1224	U	P-O3'-C3'	5.41	126.19	119.70
35	BB	263	G	N3-C2-N2	5.41	123.68	119.90
35	BB	346	A	C2-N3-C4	-5.41	107.90	110.60
35	BB	359	G	O4'-C4'-C3'	-5.41	98.59	104.00
35	BB	438	G	C2-N3-C4	5.41	114.60	111.90
35	BB	986	C	N1-C2-O2	-5.41	115.66	118.90
35	BB	1240	U	P-O3'-C3'	5.41	126.19	119.70
35	BB	1240	U	C3'-C2'-C1'	5.41	105.83	101.50
35	BB	1343	G	C4'-C3'-C2'	5.41	108.01	102.60
35	BB	1353	A	O4'-C1'-N9	5.41	112.52	108.20
35	BB	1413	A	C6-C5-N7	-5.41	128.52	132.30
35	BB	1505	A	O4'-C1'-N9	5.41	112.53	108.20
35	BB	1823	G	C4-C5-N7	5.41	112.96	110.80
35	BB	1946	U	N1-C2-O2	5.41	126.58	122.80
35	BB	2162	G	N3-C2-N2	5.41	123.68	119.90
35	BB	2167	U	C2-N3-C4	-5.41	123.76	127.00
35	BB	2307	G	C8-N9-C1'	-5.41	119.97	127.00
35	BB	2582	G	N7-C8-N9	5.41	115.80	113.10
35	BB	2631	G	N3-C2-N2	5.41	123.68	119.90
35	BB	2708	G	N7-C8-N9	5.41	115.80	113.10
1	AA	754	C	C5-C6-N1	-5.40	118.30	121.00
35	BB	929	U	O4'-C1'-C2'	5.40	112.46	107.60
35	BB	2260	C	O4'-C1'-N1	5.40	112.52	108.20
1	AA	68	G	N9-C4-C5	-5.40	103.24	105.40
1	AA	463	U	N1-C2-O2	-5.40	119.02	122.80
1	AA	996	A	C4'-C3'-C2'	-5.40	97.20	102.60
34	BA	40	U	O4'-C1'-N1	5.40	112.52	108.20
35	BB	20	C	C4-C5-C6	5.40	120.10	117.40
35	BB	367	G	N3-C4-C5	-5.40	125.90	128.60
35	BB	811	U	N3-C2-O2	5.40	125.98	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1069	A	O4'-C1'-N9	5.40	112.52	108.20
35	BB	1093	G	C5-N7-C8	-5.40	101.60	104.30
35	BB	1228	G	N1-C2-N3	-5.40	120.66	123.90
35	BB	2578	G	C6-C5-N7	-5.40	127.16	130.40
1	AA	57	G	N1-C6-O6	5.40	123.14	119.90
1	AA	426	U	N3-C2-O2	5.40	125.98	122.20
1	AA	698	G	C4-C5-N7	5.40	112.96	110.80
1	AA	1213	A	C8-N9-C4	5.40	107.96	105.80
1	AA	1526	G	C5-C6-O6	-5.40	125.36	128.60
34	BA	36	C	C6-N1-C2	-5.40	118.14	120.30
34	BA	96	G	N3-C4-C5	5.40	131.30	128.60
35	BB	5	A	C5-N7-C8	5.40	106.60	103.90
35	BB	134	G	C3'-C2'-C1'	-5.40	97.18	101.50
35	BB	1152	C	N3-C2-O2	-5.40	118.12	121.90
35	BB	1247	A	C5-C6-N6	-5.40	119.38	123.70
35	BB	1553	A	C5-N7-C8	5.40	106.60	103.90
35	BB	1557	C	N1-C1'-C2'	-5.40	106.06	112.00
35	BB	1717	A	C8-N9-C4	5.40	107.96	105.80
35	BB	1968	G	P-O3'-C3'	-5.40	113.22	119.70
35	BB	2748	A	N1-C2-N3	5.40	132.00	129.30
1	AA	278	G	C4'-C3'-C2'	-5.40	97.20	102.60
1	AA	389	A	C8-N9-C4	-5.40	103.64	105.80
1	AA	825	A	N9-C4-C5	5.40	107.96	105.80
1	AA	1322	C	N3-C4-N4	5.40	121.78	118.00
23	AX	17	C	C3'-C2'-C1'	5.40	105.82	101.50
35	BB	230	G	C4-N9-C1'	5.40	133.52	126.50
35	BB	747	U	C1'-O4'-C4'	5.40	114.22	109.90
35	BB	1243	C	C2-N3-C4	5.40	122.60	119.90
35	BB	1303	G	C5-N7-C8	5.40	107.00	104.30
35	BB	2293	G	N1-C2-N3	-5.40	120.66	123.90
35	BB	2656	U	N3-C4-C5	-5.40	111.36	114.60
35	BB	2766	A	O4'-C1'-C2'	-5.40	100.40	105.80
35	BB	2815	C	C6-N1-C2	-5.40	118.14	120.30
1	AA	240	G	O5'-P-OP1	5.40	117.18	110.70
1	AA	449	G	N1-C2-N3	-5.40	120.66	123.90
1	AA	660	C	OP2-P-O3'	5.40	117.07	105.20
1	AA	1082	A	C5-C6-N6	-5.40	119.38	123.70
1	AA	1227	A	C8-N9-C4	5.40	107.96	105.80
35	BB	290	U	C3'-C2'-C1'	5.40	105.82	101.50
35	BB	575	A	C6-C5-N7	-5.40	128.52	132.30
35	BB	675	A	N9-C4-C5	5.40	107.96	105.80
35	BB	677	A	OP2-P-O3'	5.40	117.08	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	876	C	C5'-C4'-O4'	5.40	115.58	109.10
35	BB	1247	A	N9-C4-C5	5.40	107.96	105.80
35	BB	1828	G	C6-N1-C2	5.40	128.34	125.10
35	BB	2662	A	O4'-C1'-N9	5.40	112.52	108.20
1	AA	232	G	C5-C6-O6	-5.40	125.36	128.60
1	AA	1194	U	C5-C4-O4	-5.40	122.66	125.90
29	B4	8	ILE	N-CA-C	-5.40	96.43	111.00
35	BB	361	G	N9-C4-C5	5.40	107.56	105.40
35	BB	887	U	O4'-C1'-N1	5.40	112.52	108.20
35	BB	2371	G	C5'-C4'-C3'	-5.40	107.37	116.00
1	AA	22	G	C6-C5-N7	-5.39	127.16	130.40
1	AA	409	U	O4'-C1'-N1	5.39	112.52	108.20
1	AA	1203	C	N3-C4-C5	-5.39	119.74	121.90
1	AA	1250	A	N1-C2-N3	5.39	132.00	129.30
1	AA	1504	G	C6-C5-N7	-5.39	127.16	130.40
35	BB	497	A	N3-C4-C5	5.39	130.58	126.80
35	BB	627	A	N1-C2-N3	-5.39	126.60	129.30
35	BB	858	G	O4'-C1'-N9	5.39	112.52	108.20
35	BB	1761	C	C2'-C3'-O3'	5.39	122.33	113.70
35	BB	2012	G	N1-C2-N2	-5.39	111.35	116.20
35	BB	2030	A	O5'-C5'-C4'	-5.39	101.45	111.70
35	BB	2033	A	N3-C4-C5	-5.39	123.02	126.80
35	BB	2127	G	C5-C6-O6	-5.39	125.36	128.60
35	BB	2361	G	N7-C8-N9	-5.39	110.40	113.10
35	BB	2599	G	C4-C5-N7	-5.39	108.64	110.80
35	BB	2675	A	C6-C5-N7	-5.39	128.52	132.30
35	BB	2825	G	C2-N3-C4	5.39	114.60	111.90
35	BB	2842	G	C5-N7-C8	5.39	107.00	104.30
41	BH	37	VAL	N-CA-C	-5.39	96.43	111.00
1	AA	44	A	O4'-C1'-N9	5.39	112.51	108.20
1	AA	84	U	O4'-C1'-N1	5.39	112.51	108.20
1	AA	121	U	C6-N1-C1'	-5.39	113.65	121.20
1	AA	543	U	P-O5'-C5'	5.39	129.53	120.90
1	AA	693	G	C4-C5-C6	5.39	122.03	118.80
1	AA	814	A	P-O5'-C5'	-5.39	112.27	120.90
1	AA	860	A	C4-C5-N7	-5.39	108.00	110.70
1	AA	868	C	N1-C2-N3	5.39	122.97	119.20
1	AA	1081	A	O4'-C1'-N9	5.39	112.52	108.20
1	AA	1284	C	C5-C4-N4	-5.39	116.42	120.20
1	AA	1333	A	C4-C5-C6	5.39	119.70	117.00
4	AD	80	ARG	NE-CZ-NH2	-5.39	117.60	120.30
5	AE	70	MET	CG-SD-CE	-5.39	91.57	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AV	11	C	N3-C4-C5	-5.39	119.74	121.90
35	BB	74	A	C5'-C4'-C3'	-5.39	107.37	116.00
35	BB	1631	G	N3-C2-N2	5.39	123.67	119.90
35	BB	2040	G	O4'-C1'-N9	5.39	112.52	108.20
35	BB	2345	G	C2-N3-C4	-5.39	109.20	111.90
35	BB	2601	C	C5-C6-N1	-5.39	118.30	121.00
35	BB	2744	G	N3-C4-N9	5.39	129.24	126.00
1	AA	462	G	C4-C5-C6	5.39	122.03	118.80
1	AA	572	A	C5-C6-N1	-5.39	115.00	117.70
1	AA	794	A	C5-C6-N6	-5.39	119.39	123.70
1	AA	797	C	C2-N1-C1'	5.39	124.73	118.80
1	AA	1377	A	P-O3'-C3'	-5.39	113.23	119.70
1	AA	1493	A	C4-C5-N7	-5.39	108.00	110.70
4	AD	162	GLU	O-C-N	-5.39	114.07	122.70
35	BB	572	A	N1-C2-N3	-5.39	126.60	129.30
35	BB	1151	A	C4-C5-N7	-5.39	108.00	110.70
35	BB	1248	G	P-O5'-C5'	5.39	129.53	120.90
35	BB	1426	G	C8-N9-C4	-5.39	104.24	106.40
1	AA	739	C	P-O3'-C3'	-5.39	113.23	119.70
1	AA	946	A	O4'-C1'-N9	5.39	112.51	108.20
1	AA	1469	C	C5-C6-N1	-5.39	118.31	121.00
1	AA	1488	G	C8-N9-C4	-5.39	104.24	106.40
16	AP	25	ARG	N-CA-CB	5.39	120.30	110.60
34	BA	78	A	C5-N7-C8	5.39	106.59	103.90
35	BB	48	G	C6-C5-N7	5.39	133.63	130.40
35	BB	294	A	O5'-P-OP2	-5.39	100.85	105.70
35	BB	449	A	P-O5'-C5'	5.39	129.52	120.90
35	BB	991	C	N3-C4-N4	5.39	121.77	118.00
35	BB	1359	A	C2-N3-C4	-5.39	107.91	110.60
35	BB	2113	U	N3-C4-O4	5.39	123.17	119.40
35	BB	2169	A	N3-C4-C5	-5.39	123.03	126.80
35	BB	2819	G	O4'-C1'-N9	5.39	112.51	108.20
1	AA	441	A	N7-C8-N9	5.39	116.49	113.80
1	AA	651	C	C6-N1-C2	5.39	122.45	120.30
1	AA	782	A	C4-C5-N7	-5.39	108.01	110.70
15	AO	39	GLN	CB-CA-C	-5.39	99.62	110.40
35	BB	125	A	C5-C6-N6	-5.39	119.39	123.70
35	BB	506	G	N3-C4-N9	-5.39	122.77	126.00
35	BB	676	A	N7-C8-N9	-5.39	111.11	113.80
35	BB	749	A	N9-C4-C5	5.39	107.95	105.80
35	BB	945	A	O4'-C1'-N9	5.39	112.51	108.20
35	BB	1127	A	N1-C2-N3	5.39	131.99	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1384	A	C6-C5-N7	-5.39	128.53	132.30
35	BB	1410	G	C5-C6-N1	-5.39	108.81	111.50
35	BB	1690	A	C5-N7-C8	5.39	106.59	103.90
1	AA	449	G	P-O3'-C3'	5.39	126.16	119.70
1	AA	827	U	C5-C4-O4	-5.39	122.67	125.90
1	AA	1097	C	C5-C6-N1	5.39	123.69	121.00
1	AA	1225	A	O4'-C1'-N9	5.39	112.51	108.20
1	AA	1244	G	C5-C6-N1	-5.39	108.81	111.50
1	AA	1428	A	C4'-C3'-C2'	-5.39	97.21	102.60
35	BB	471	A	C4-C5-C6	5.39	119.69	117.00
35	BB	842	U	C5-C6-N1	-5.39	120.01	122.70
35	BB	1771	C	N3-C4-C5	-5.39	119.75	121.90
35	BB	2090	A	N1-C2-N3	5.39	131.99	129.30
1	AA	827	U	C3'-C2'-C1'	5.38	105.81	101.50
1	AA	1037	C	N3-C4-N4	5.38	121.77	118.00
1	AA	1090	U	N1-C1'-C2'	-5.38	106.08	112.00
8	AH	83	ARG	CD-NE-CZ	5.38	131.14	123.60
22	AV	51	A	O4'-C1'-N9	5.38	112.51	108.20
34	BA	66	A	C8-N9-C4	-5.38	103.65	105.80
35	BB	718	A	O4'-C4'-C3'	-5.38	98.62	104.00
35	BB	1028	A	N1-C6-N6	5.38	121.83	118.60
35	BB	1182	G	O4'-C4'-C3'	-5.38	98.62	104.00
35	BB	1387	A	C5-N7-C8	5.38	106.59	103.90
35	BB	2083	G	C6-C5-N7	-5.38	127.17	130.40
35	BB	2094	A	C8-N9-C4	-5.38	103.65	105.80
35	BB	2151	U	C2-N1-C1'	-5.38	111.24	117.70
35	BB	2257	U	N3-C2-O2	5.38	125.97	122.20
1	AA	107	G	N7-C8-N9	5.38	115.79	113.10
1	AA	320	A	N9-C4-C5	-5.38	103.65	105.80
1	AA	1182	G	P-O3'-C3'	5.38	126.16	119.70
1	AA	1317	C	N1-C2-O2	-5.38	115.67	118.90
30	B5	51	ASP	CA-CB-CG	-5.38	101.56	113.40
35	BB	148	U	C5-C4-O4	5.38	129.13	125.90
35	BB	332	A	C2-N3-C4	5.38	113.29	110.60
35	BB	828	U	N1-C1'-C2'	5.38	121.00	114.00
35	BB	1023	U	O4'-C4'-C3'	-5.38	98.62	104.00
35	BB	1729	U	C4-C5-C6	5.38	122.93	119.70
35	BB	1843	C	C4'-C3'-C2'	-5.38	97.22	102.60
35	BB	1845	G	C2-N3-C4	5.38	114.59	111.90
35	BB	2869	G	C2-N3-C4	5.38	114.59	111.90
38	BE	101	TYR	CA-CB-CG	-5.38	103.17	113.40
48	BO	2	ASP	N-CA-CB	5.38	120.29	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	BO	9	ARG	CB-CG-CD	5.38	125.60	111.60
1	AA	134	G	C4-C5-N7	5.38	112.95	110.80
1	AA	594	U	N3-C2-O2	5.38	125.97	122.20
1	AA	623	C	C5-C6-N1	-5.38	118.31	121.00
1	AA	702	A	C5-N7-C8	5.38	106.59	103.90
1	AA	794	A	N1-C2-N3	5.38	131.99	129.30
1	AA	1185	G	C2-N3-C4	5.38	114.59	111.90
22	AV	26	A	C5-C6-N1	-5.38	115.01	117.70
27	B2	9	THR	N-CA-CB	5.38	120.52	110.30
35	BB	492	A	N3-C4-N9	5.38	131.71	127.40
35	BB	539	G	C6-C5-N7	-5.38	127.17	130.40
35	BB	708	G	C8-N9-C4	5.38	108.55	106.40
35	BB	1039	A	C4-C5-N7	-5.38	108.01	110.70
35	BB	1336	A	C5-C6-N1	-5.38	115.01	117.70
35	BB	1378	A	N1-C6-N6	5.38	121.83	118.60
35	BB	1423	G	N3-C2-N2	5.38	123.67	119.90
35	BB	1448	G	C2-N3-C4	-5.38	109.21	111.90
35	BB	1575	C	C2-N3-C4	5.38	122.59	119.90
35	BB	1665	A	N3-C4-C5	-5.38	123.03	126.80
35	BB	1855	U	N3-C2-O2	5.38	125.97	122.20
35	BB	2064	C	C4-C5-C6	-5.38	114.71	117.40
35	BB	2123	G	P-O5'-C5'	5.38	129.51	120.90
44	BK	46	ALA	N-CA-CB	5.38	117.64	110.10
1	AA	403	C	C6-N1-C2	-5.38	118.15	120.30
1	AA	540	G	O4'-C1'-N9	5.38	112.50	108.20
1	AA	1532	U	P-O3'-C3'	-5.38	113.24	119.70
35	BB	411	G	N3-C4-N9	-5.38	122.77	126.00
35	BB	925	A	C5-N7-C8	5.38	106.59	103.90
35	BB	1000	A	C5-N7-C8	5.38	106.59	103.90
35	BB	1242	U	C5-C4-O4	5.38	129.13	125.90
35	BB	1504	A	C6-C5-N7	-5.38	128.53	132.30
49	BP	99	LEU	CB-CG-CD1	-5.38	101.85	111.00
1	AA	371	A	C2-N3-C4	5.38	113.29	110.60
1	AA	1183	U	O4'-C4'-C3'	-5.38	98.62	104.00
1	AA	1314	C	C6-N1-C2	5.38	122.45	120.30
35	BB	522	A	C3'-C2'-C1'	-5.38	97.20	101.50
35	BB	757	G	N3-C4-N9	-5.38	122.77	126.00
35	BB	877	A	C3'-C2'-C1'	-5.38	97.20	101.50
35	BB	958	U	N1-C2-N3	-5.38	111.67	114.90
35	BB	971	G	C2-N3-C4	5.38	114.59	111.90
35	BB	2219	U	P-O5'-C5'	5.38	129.51	120.90
35	BB	2300	C	C5-C6-N1	5.38	123.69	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2711	A	C5-C6-N6	-5.38	119.40	123.70
35	BB	2746	U	N1-C2-O2	-5.38	119.03	122.80
1	AA	53	A	N9-C1'-C2'	-5.38	106.08	112.00
1	AA	186	C	N1-C2-N3	5.38	122.96	119.20
1	AA	612	C	C5-C4-N4	-5.38	116.44	120.20
1	AA	656	G	C6-C5-N7	-5.38	127.17	130.40
1	AA	1248	A	N7-C8-N9	-5.38	111.11	113.80
22	AV	57	A	C5-C6-N1	-5.38	115.01	117.70
35	BB	224	U	N1-C1'-C2'	-5.38	106.09	112.00
35	BB	583	G	N9-C4-C5	5.38	107.55	105.40
35	BB	763	G	O4'-C1'-N9	5.38	112.50	108.20
35	BB	824	U	O4'-C1'-N1	5.38	112.50	108.20
35	BB	918	A	C5-C6-N1	-5.38	115.01	117.70
35	BB	1223	G	N3-C2-N2	5.38	123.66	119.90
35	BB	1230	A	N9-C4-C5	5.38	107.95	105.80
35	BB	1457	U	N1-C1'-C2'	-5.38	106.09	112.00
35	BB	1515	A	O4'-C4'-C3'	-5.38	98.62	104.00
35	BB	1959	G	C4-C5-N7	5.38	112.95	110.80
35	BB	2160	C	P-O3'-C3'	5.38	126.15	119.70
35	BB	2757	A	OP1-P-OP2	-5.38	111.53	119.60
1	AA	333	U	N1-C2-O2	5.38	126.56	122.80
1	AA	818	G	N7-C8-N9	5.38	115.79	113.10
1	AA	1433	A	N3-C4-C5	5.38	130.56	126.80
1	AA	1517	G	C4-C5-C6	5.38	122.03	118.80
34	BA	113	C	N1-C2-N3	5.38	122.96	119.20
35	BB	13	A	C6-C5-N7	-5.38	128.54	132.30
35	BB	160	A	C5-N7-C8	5.38	106.59	103.90
35	BB	315	G	O4'-C4'-C3'	-5.38	98.62	104.00
35	BB	1154	G	N7-C8-N9	5.38	115.79	113.10
35	BB	1192	G	N9-C4-C5	-5.38	103.25	105.40
35	BB	1388	G	C5'-C4'-C3'	-5.38	107.40	116.00
35	BB	1675	C	N3-C4-N4	5.38	121.76	118.00
35	BB	2118	U	C1'-O4'-C4'	-5.38	105.60	109.90
52	BS	33	LEU	N-CA-C	-5.38	96.49	111.00
1	AA	472	U	N3-C4-O4	-5.37	115.64	119.40
1	AA	1047	G	C6-N1-C2	5.37	128.32	125.10
35	BB	92	U	C4'-C3'-C2'	-5.37	97.23	102.60
35	BB	502	A	P-O5'-C5'	-5.37	112.30	120.90
35	BB	786	C	N3-C4-C5	-5.37	119.75	121.90
35	BB	818	G	P-O3'-C3'	-5.37	113.25	119.70
35	BB	1198	U	C4'-C3'-C2'	-5.37	97.23	102.60
35	BB	1487	U	N1-C2-O2	-5.37	119.04	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1786	A	C2-N3-C4	-5.37	107.91	110.60
35	BB	1829	A	C6-N1-C2	-5.37	115.38	118.60
35	BB	2124	G	C3'-C2'-C1'	-5.37	97.20	101.50
35	BB	2226	C	C2-N1-C1'	5.37	124.71	118.80
36	BC	51	ARG	NE-CZ-NH2	-5.37	117.61	120.30
1	AA	365	U	O4'-C1'-N1	-5.37	103.90	108.20
1	AA	1156	G	N9-C4-C5	5.37	107.55	105.40
7	AG	79	VAL	CA-CB-CG1	-5.37	102.84	110.90
35	BB	370	G	N9-C4-C5	-5.37	103.25	105.40
35	BB	466	A	C6-C5-N7	-5.37	128.54	132.30
35	BB	1217	U	C5'-C4'-C3'	-5.37	107.41	116.00
35	BB	1240	U	P-O5'-C5'	-5.37	112.31	120.90
35	BB	1260	A	P-O5'-C5'	-5.37	112.31	120.90
35	BB	1940	U	C5-C4-O4	-5.37	122.68	125.90
35	BB	2010	G	C5-N7-C8	5.37	106.98	104.30
35	BB	2023	C	C5'-C4'-C3'	-5.37	107.41	116.00
35	BB	2202	U	N1-C2-N3	5.37	118.12	114.90
35	BB	2208	C	C5-C4-N4	-5.37	116.44	120.20
35	BB	2244	U	C6-N1-C1'	-5.37	113.68	121.20
35	BB	2274	A	O4'-C1'-N9	5.37	112.50	108.20
35	BB	2300	C	N1-C2-N3	-5.37	115.44	119.20
55	BW	22	ALA	CB-CA-C	-5.37	102.04	110.10
55	BW	81	PRO	N-CA-CB	5.37	109.75	103.30
1	AA	376	G	C4'-C3'-C2'	-5.37	97.23	102.60
1	AA	735	C	O4'-C1'-N1	5.37	112.50	108.20
3	AC	4	VAL	C-N-CA	5.37	135.12	121.70
35	BB	36	G	N1-C2-N3	-5.37	120.68	123.90
35	BB	1450	G	N3-C2-N2	5.37	123.66	119.90
35	BB	1570	A	P-O3'-C3'	5.37	126.14	119.70
35	BB	2168	G	C8-N9-C4	5.37	108.55	106.40
35	BB	2201	G	C4-C5-N7	5.37	112.95	110.80
35	BB	2335	A	C5-C6-N6	-5.37	119.40	123.70
35	BB	2564	A	N9-C4-C5	5.37	107.95	105.80
35	BB	2756	U	C3'-C2'-C1'	-5.37	97.20	101.50
1	AA	81	A	C6-N1-C2	-5.37	115.38	118.60
1	AA	362	G	C3'-C2'-C1'	-5.37	97.20	101.50
1	AA	411	A	C4-C5-N7	-5.37	108.02	110.70
1	AA	526	C	C5-C4-N4	-5.37	116.44	120.20
1	AA	853	C	C1'-O4'-C4'	5.37	114.19	109.90
1	AA	923	A	N1-C2-N3	5.37	131.99	129.30
1	AA	1057	G	O4'-C1'-N9	5.37	112.50	108.20
1	AA	1219	A	O4'-C1'-N9	5.37	112.50	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1266	G	C3'-C2'-C1'	-5.37	97.21	101.50
35	BB	255	A	C5-C6-N6	-5.37	119.41	123.70
35	BB	317	G	C4-C5-N7	5.37	112.95	110.80
35	BB	683	U	C5-C6-N1	5.37	125.39	122.70
35	BB	833	A	N9-C4-C5	5.37	107.95	105.80
35	BB	1133	A	C5'-C4'-C3'	5.37	124.59	116.00
35	BB	1307	A	C6-N1-C2	-5.37	115.38	118.60
35	BB	1583	A	C4-C5-C6	5.37	119.68	117.00
35	BB	2298	A	C5-C6-N1	-5.37	115.02	117.70
35	BB	2375	G	C8-N9-C4	-5.37	104.25	106.40
1	AA	68	G	C2-N3-C4	-5.37	109.22	111.90
1	AA	91	U	C5-C6-N1	5.37	125.38	122.70
1	AA	123	U	N3-C2-O2	5.37	125.96	122.20
35	BB	523	C	N1-C2-O2	5.37	122.12	118.90
35	BB	597	G	N1-C2-N3	-5.37	120.68	123.90
35	BB	799	G	C8-N9-C1'	-5.37	120.02	127.00
35	BB	878	A	N9-C1'-C2'	-5.37	106.10	112.00
35	BB	1275	A	O4'-C4'-C3'	-5.37	98.63	104.00
35	BB	1950	G	N1-C2-N3	-5.37	120.68	123.90
35	BB	2133	G	C5-C6-O6	-5.37	125.38	128.60
50	BQ	117	ALA	N-CA-CB	5.37	117.61	110.10
1	AA	35	G	OP1-P-OP2	-5.37	111.55	119.60
1	AA	207	C	O4'-C4'-C3'	-5.37	98.63	104.00
1	AA	441	A	C2-N3-C4	5.37	113.28	110.60
1	AA	512	U	N1-C2-N3	5.37	118.12	114.90
1	AA	600	A	C6-C5-N7	-5.37	128.54	132.30
1	AA	723	U	C2-N1-C1'	5.37	124.14	117.70
1	AA	970	C	C2-N3-C4	5.37	122.58	119.90
1	AA	1361	G	N3-C2-N2	5.37	123.66	119.90
22	AV	64	C	N3-C4-N4	5.37	121.76	118.00
22	AV	68	U	C1'-O4'-C4'	5.37	114.19	109.90
35	BB	105	C	C4-C5-C6	5.37	120.08	117.40
35	BB	638	G	C2-N3-C4	5.37	114.58	111.90
35	BB	1087	G	C2-N3-C4	5.37	114.58	111.90
35	BB	1230	A	C5-N7-C8	5.37	106.58	103.90
35	BB	1382	G	O4'-C4'-C3'	-5.37	98.63	104.00
35	BB	1546	G	N3-C2-N2	5.37	123.66	119.90
35	BB	1766	G	C4-C5-N7	-5.37	108.65	110.80
35	BB	2201	G	C4-C5-C6	5.37	122.02	118.80
35	BB	2455	G	C8-N9-C4	-5.37	104.25	106.40
35	BB	2782	G	C6-N1-C2	-5.37	121.88	125.10
1	AA	769	G	P-O3'-C3'	-5.36	113.26	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1193	G	C5'-C4'-O4'	5.36	115.54	109.10
1	AA	1260	G	N3-C4-N9	5.36	129.22	126.00
1	AA	1297	G	C6-C5-N7	-5.36	127.18	130.40
35	BB	70	G	P-O3'-C3'	-5.36	113.26	119.70
35	BB	690	G	N7-C8-N9	-5.36	110.42	113.10
35	BB	792	A	C1'-O4'-C4'	-5.36	105.61	109.90
35	BB	1409	U	OP1-P-OP2	-5.36	111.55	119.60
35	BB	1569	A	N9-C4-C5	5.36	107.94	105.80
35	BB	1784	A	C8-N9-C4	5.36	107.94	105.80
35	BB	1928	A	C8-N9-C4	-5.36	103.66	105.80
35	BB	1988	G	N7-C8-N9	-5.36	110.42	113.10
35	BB	2546	U	N1-C2-O2	5.36	126.55	122.80
35	BB	2557	G	N7-C8-N9	-5.36	110.42	113.10
35	BB	2806	C	C5'-C4'-O4'	-5.36	102.67	109.10
38	BE	19	PHE	CB-CG-CD2	-5.36	117.05	120.80
51	BR	90	ARG	NE-CZ-NH1	-5.36	117.62	120.30
1	AA	255	G	C1'-O4'-C4'	-5.36	105.61	109.90
22	AV	73	A	C2'-C3'-O3'	5.36	122.28	113.70
35	BB	1104	C	C6-N1-C2	-5.36	118.16	120.30
35	BB	1265	A	C6-C5-N7	-5.36	128.55	132.30
35	BB	2771	C	N1-C2-N3	5.36	122.95	119.20
1	AA	99	C	O4'-C1'-N1	5.36	112.49	108.20
35	BB	59	U	N3-C4-C5	-5.36	111.38	114.60
35	BB	208	C	C6-N1-C2	-5.36	118.16	120.30
35	BB	663	G	C5'-C4'-O4'	-5.36	102.67	109.10
35	BB	1189	A	C4-C5-C6	5.36	119.68	117.00
35	BB	1386	C	C6-N1-C2	5.36	122.44	120.30
35	BB	1602	U	P-O3'-C3'	-5.36	113.27	119.70
35	BB	1775	U	N3-C4-C5	-5.36	111.38	114.60
35	BB	1845	G	N9-C1'-C2'	-5.36	106.10	112.00
35	BB	2227	A	C5-C6-N6	-5.36	119.41	123.70
35	BB	2290	G	C5-N7-C8	5.36	106.98	104.30
47	BN	94	TYR	CB-CG-CD1	5.36	124.22	121.00
1	AA	1515	G	C5-C6-N1	-5.36	108.82	111.50
5	AE	40	ASP	CB-CG-OD1	-5.36	113.48	118.30
14	AN	79	SER	N-CA-CB	5.36	118.54	110.50
34	BA	76	G	C4-C5-C6	5.36	122.02	118.80
35	BB	122	G	C2-N3-C4	5.36	114.58	111.90
35	BB	174	U	C2-N1-C1'	5.36	124.13	117.70
35	BB	957	C	N3-C4-N4	5.36	121.75	118.00
35	BB	1985	C	C5-C6-N1	5.36	123.68	121.00
35	BB	2022	U	O3'-P-O5'	-5.36	93.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2640	G	C3'-C2'-C1'	5.36	105.79	101.50
35	BB	2686	G	C8-N9-C1'	-5.36	120.03	127.00
1	AA	530	G	O4'-C1'-N9	5.36	112.49	108.20
1	AA	686	U	N3-C4-C5	-5.36	111.39	114.60
1	AA	1198	G	N7-C8-N9	-5.36	110.42	113.10
35	BB	121	G	C6-N1-C2	5.36	128.31	125.10
35	BB	366	C	C5-C6-N1	-5.36	118.32	121.00
35	BB	426	C	C6-N1-C2	-5.36	118.16	120.30
35	BB	633	A	C5-C6-N6	-5.36	119.41	123.70
35	BB	875	G	C6-C5-N7	-5.36	127.19	130.40
35	BB	927	A	C1'-O4'-C4'	-5.36	105.61	109.90
35	BB	953	G	N3-C4-C5	5.36	131.28	128.60
35	BB	1485	U	N3-C2-O2	-5.36	118.45	122.20
35	BB	1874	C	C4'-C3'-C2'	-5.36	97.24	102.60
35	BB	2307	G	C5'-C4'-O4'	5.36	115.53	109.10
35	BB	2506	U	N1-C2-O2	-5.36	119.05	122.80
35	BB	2536	G	C4-C5-C6	5.36	122.02	118.80
35	BB	2635	A	C5-C6-N1	-5.36	115.02	117.70
35	BB	2732	G	N1-C6-O6	5.36	123.11	119.90
35	BB	2881	U	N3-C4-O4	5.36	123.15	119.40
53	BT	66	LYS	N-CA-C	-5.36	96.53	111.00
1	AA	14	U	C1'-O4'-C4'	5.36	114.18	109.90
1	AA	35	G	P-O3'-C3'	-5.36	113.27	119.70
1	AA	497	G	C6-N1-C2	5.36	128.31	125.10
1	AA	1394	A	C6-N1-C2	-5.36	115.39	118.60
35	BB	52	A	C4-N9-C1'	5.36	135.94	126.30
35	BB	817	C	C5-C4-N4	-5.36	116.45	120.20
35	BB	917	A	C5-C6-N1	-5.36	115.02	117.70
35	BB	947	A	C2-N3-C4	-5.36	107.92	110.60
35	BB	1150	C	C5-C6-N1	5.36	123.68	121.00
35	BB	1268	A	C4-C5-C6	5.36	119.68	117.00
35	BB	1549	A	N1-C2-N3	-5.36	126.62	129.30
35	BB	1663	G	C8-N9-C4	-5.36	104.26	106.40
35	BB	2357	G	O4'-C1'-N9	5.36	112.48	108.20
35	BB	2801	G	C8-N9-C4	-5.36	104.26	106.40
48	BO	33	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	AA	859	G	C4-C5-C6	5.35	122.01	118.80
35	BB	355	U	C6-N1-C2	-5.35	117.79	121.00
35	BB	863	A	C8-N9-C4	-5.35	103.66	105.80
35	BB	2396	G	N3-C2-N2	5.35	123.65	119.90
35	BB	2586	U	C5-C6-N1	5.35	125.38	122.70
35	BB	2782	G	C8-N9-C1'	-5.35	120.04	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	38	G	N3-C2-N2	5.35	123.65	119.90
1	AA	131	A	C5-C6-N6	-5.35	119.42	123.70
1	AA	282	A	C4-C5-C6	5.35	119.68	117.00
1	AA	513	C	P-O5'-C5'	5.35	129.46	120.90
1	AA	643	C	N3-C4-C5	-5.35	119.76	121.90
1	AA	1226	C	C6-N1-C2	-5.35	118.16	120.30
35	BB	212	G	C2-N3-C4	-5.35	109.22	111.90
35	BB	474	G	C5'-C4'-O4'	5.35	115.52	109.10
35	BB	868	U	C3'-C2'-C1'	5.35	105.78	101.50
35	BB	1110	G	P-O3'-C3'	5.35	126.12	119.70
35	BB	1544	A	N1-C2-N3	5.35	131.98	129.30
35	BB	2045	C	C5-C6-N1	-5.35	118.32	121.00
35	BB	2496	C	N3-C2-O2	-5.35	118.15	121.90
35	BB	2695	U	N3-C4-C5	-5.35	111.39	114.60
1	AA	482	A	C4-C5-N7	-5.35	108.02	110.70
1	AA	678	U	P-O3'-C3'	-5.35	113.28	119.70
35	BB	686	U	C4'-C3'-C2'	-5.35	97.25	102.60
35	BB	714	U	C5'-C4'-O4'	5.35	115.52	109.10
35	BB	1223	G	C4-C5-N7	-5.35	108.66	110.80
35	BB	1372	U	C4'-C3'-C2'	-5.35	97.25	102.60
35	BB	1863	G	C5-N7-C8	-5.35	101.62	104.30
35	BB	2218	G	N1-C2-N2	5.35	121.02	116.20
37	BD	92	VAL	CA-CB-CG1	-5.35	102.87	110.90
52	BS	10	ALA	CB-CA-C	5.35	118.13	110.10
1	AA	35	G	O4'-C1'-N9	5.35	112.48	108.20
1	AA	911	U	C6-N1-C1'	-5.35	113.71	121.20
1	AA	942	G	C8-N9-C4	5.35	108.54	106.40
1	AA	1122	U	N3-C2-O2	5.35	125.94	122.20
1	AA	1326	U	N1-C2-N3	-5.35	111.69	114.90
23	AX	20	G	C2-N3-C4	-5.35	109.22	111.90
35	BB	375	G	C2-N3-C4	5.35	114.58	111.90
35	BB	456	C	C6-N1-C2	5.35	122.44	120.30
35	BB	1006	C	C2-N1-C1'	5.35	124.69	118.80
35	BB	1103	A	C3'-C2'-C1'	-5.35	97.22	101.50
35	BB	1382	G	C3'-C2'-C1'	-5.35	97.22	101.50
35	BB	1705	A	C6-N1-C2	-5.35	115.39	118.60
35	BB	1867	G	C4'-C3'-C2'	-5.35	97.25	102.60
35	BB	2154	A	N9-C4-C5	5.35	107.94	105.80
47	BN	25	ALA	N-CA-CB	5.35	117.59	110.10
1	AA	216	U	P-O3'-C3'	-5.35	113.28	119.70
1	AA	362	G	P-O5'-C5'	5.35	129.46	120.90
35	BB	526	A	O4'-C1'-N9	5.35	112.48	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	661	A	C6-C5-N7	-5.35	128.56	132.30
35	BB	749	A	N1-C2-N3	5.35	131.97	129.30
35	BB	943	A	C3'-C2'-C1'	-5.35	97.22	101.50
35	BB	1228	G	C4-N9-C1'	-5.35	119.55	126.50
35	BB	1867	G	C2-N3-C4	5.35	114.57	111.90
35	BB	2165	C	C2-N3-C4	-5.35	117.23	119.90
35	BB	2280	G	C5-C6-O6	-5.35	125.39	128.60
35	BB	2834	G	N7-C8-N9	5.35	115.77	113.10
41	BH	91	PHE	CB-CG-CD2	-5.35	117.06	120.80
1	AA	249	U	C2-N1-C1'	-5.35	111.28	117.70
1	AA	282	A	N3-C4-N9	5.35	131.68	127.40
1	AA	595	A	C6-C5-N7	-5.35	128.56	132.30
1	AA	1177	G	C4-C5-C6	5.35	122.01	118.80
1	AA	1423	G	C6-N1-C2	5.35	128.31	125.10
35	BB	588	U	C4-C5-C6	-5.35	116.49	119.70
35	BB	991	C	C5-C4-N4	-5.35	116.46	120.20
35	BB	2172	U	C6-N1-C2	5.35	124.21	121.00
35	BB	2494	G	N1-C2-N2	-5.35	111.39	116.20
1	AA	52	C	P-O3'-C3'	5.34	126.11	119.70
1	AA	259	G	N3-C2-N2	5.34	123.64	119.90
1	AA	514	C	C5-C4-N4	-5.34	116.46	120.20
1	AA	557	G	C1'-O4'-C4'	5.34	114.18	109.90
13	AM	91	ARG	CA-CB-CG	5.34	125.16	113.40
15	AO	4	THR	CA-CB-CG2	-5.34	104.92	112.40
35	BB	207	A	P-O3'-C3'	-5.34	113.29	119.70
35	BB	217	A	C1'-O4'-C4'	-5.34	105.62	109.90
35	BB	230	G	O5'-C5'-C4'	-5.34	101.55	111.70
35	BB	1016	G	N9-C1'-C2'	-5.34	106.12	112.00
35	BB	1384	A	C4-C5-C6	5.34	119.67	117.00
35	BB	1490	A	N3-C4-N9	-5.34	123.12	127.40
35	BB	1501	G	N3-C4-N9	5.34	129.21	126.00
35	BB	1683	U	N3-C4-C5	-5.34	111.39	114.60
35	BB	1957	C	N3-C2-O2	-5.34	118.16	121.90
35	BB	2324	U	C5'-C4'-C3'	-5.34	107.45	116.00
35	BB	2745	C	N3-C4-N4	5.34	121.74	118.00
1	AA	57	G	C5-C6-N1	5.34	114.17	111.50
1	AA	610	U	C2-N1-C1'	5.34	124.11	117.70
1	AA	979	C	O4'-C1'-N1	5.34	112.47	108.20
1	AA	1177	G	N1-C2-N3	5.34	127.11	123.90
1	AA	1416	G	O4'-C1'-N9	5.34	112.47	108.20
35	BB	298	G	C1'-O4'-C4'	-5.34	105.63	109.90
35	BB	599	A	C5-C6-N1	-5.34	115.03	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	873	C	N3-C4-N4	5.34	121.74	118.00
35	BB	973	A	C4-C5-C6	5.34	119.67	117.00
35	BB	981	A	O4'-C1'-N9	5.34	112.47	108.20
35	BB	1259	G	N7-C8-N9	-5.34	110.43	113.10
35	BB	1418	G	C6-C5-N7	-5.34	127.19	130.40
35	BB	2074	U	C2-N1-C1'	-5.34	111.29	117.70
35	BB	2816	G	N9-C4-C5	5.34	107.54	105.40
1	AA	99	C	P-O5'-C5'	-5.34	112.36	120.90
1	AA	152	A	C5'-C4'-C3'	5.34	124.55	116.00
1	AA	390	U	N3-C4-O4	5.34	123.14	119.40
1	AA	549	C	C2'-C3'-O3'	5.34	122.25	113.70
1	AA	586	C	C1'-O4'-C4'	-5.34	105.63	109.90
1	AA	617	G	C8-N9-C4	5.34	108.54	106.40
22	AV	53	G	O4'-C1'-N9	5.34	112.47	108.20
35	BB	714	U	C5-C4-O4	-5.34	122.69	125.90
35	BB	885	C	C5-C4-N4	-5.34	116.46	120.20
35	BB	1037	G	C6-N1-C2	5.34	128.31	125.10
35	BB	1220	G	C8-N9-C4	-5.34	104.26	106.40
35	BB	1502	A	C4-C5-C6	5.34	119.67	117.00
35	BB	2243	U	C2-N3-C4	-5.34	123.80	127.00
35	BB	2290	G	C8-N9-C4	-5.34	104.26	106.40
35	BB	2753	A	C8-N9-C4	-5.34	103.66	105.80
1	AA	32	A	C5-C6-N1	-5.34	115.03	117.70
1	AA	532	A	P-O3'-C3'	5.34	126.11	119.70
1	AA	695	A	C4'-C3'-C2'	-5.34	97.26	102.60
1	AA	1182	G	N1-C6-O6	5.34	123.10	119.90
19	AS	72	GLU	N-CA-CB	-5.34	100.99	110.60
34	BA	54	G	C4-C5-N7	5.34	112.94	110.80
35	BB	192	C	N3-C4-C5	-5.34	119.76	121.90
35	BB	412	A	O4'-C1'-N9	5.34	112.47	108.20
35	BB	584	C	C6-N1-C1'	5.34	127.21	120.80
35	BB	1291	C	N3-C2-O2	5.34	125.64	121.90
35	BB	1538	G	C8-N9-C4	5.34	108.54	106.40
35	BB	2101	A	C6-C5-N7	-5.34	128.56	132.30
35	BB	2162	G	C5-C6-N1	-5.34	108.83	111.50
35	BB	2282	G	P-O3'-C3'	5.34	126.11	119.70
35	BB	2643	G	P-O3'-C3'	-5.34	113.29	119.70
35	BB	2779	U	C5'-C4'-O4'	5.34	115.51	109.10
1	AA	549	C	N3-C4-N4	5.34	121.74	118.00
1	AA	652	U	N3-C4-C5	5.34	117.80	114.60
1	AA	966	G	N1-C2-N3	-5.34	120.70	123.90
34	BA	118	C	C4'-C3'-C2'	-5.34	97.26	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	316	C	N1-C1'-C2'	-5.34	106.13	112.00
35	BB	616	A	C5-N7-C8	5.34	106.57	103.90
35	BB	1425	G	O4'-C1'-N9	5.34	112.47	108.20
35	BB	2775	G	C6-C5-N7	-5.34	127.20	130.40
1	AA	311	C	C3'-C2'-C1'	-5.34	97.23	101.50
1	AA	428	G	N3-C4-N9	5.34	129.20	126.00
1	AA	652	U	C5-C6-N1	5.34	125.37	122.70
1	AA	670	G	N3-C2-N2	5.34	123.64	119.90
1	AA	1352	C	N1-C1'-C2'	-5.34	106.13	112.00
1	AA	1461	G	N3-C2-N2	5.34	123.64	119.90
4	AD	113	ALA	N-CA-CB	5.34	117.57	110.10
15	AO	16	ARG	CG-CD-NE	-5.34	100.59	111.80
34	BA	79	G	C4-C5-C6	5.34	122.00	118.80
35	BB	6	A	C4-C5-N7	-5.34	108.03	110.70
35	BB	248	G	C4-C5-N7	-5.34	108.67	110.80
35	BB	284	U	N3-C4-C5	-5.34	111.40	114.60
35	BB	1017	G	P-O5'-C5'	-5.34	112.36	120.90
35	BB	1327	A	N3-C4-N9	-5.34	123.13	127.40
35	BB	1464	G	C1'-O4'-C4'	5.34	114.17	109.90
35	BB	1489	C	N3-C4-C5	-5.34	119.77	121.90
35	BB	1509	A	C4-C5-C6	5.34	119.67	117.00
35	BB	1736	U	C5-C6-N1	-5.34	120.03	122.70
35	BB	2043	C	C2-N1-C1'	5.34	124.67	118.80
35	BB	2669	G	C8-N9-C1'	5.34	133.94	127.00
35	BB	2852	G	C5-C6-N1	-5.34	108.83	111.50
37	BD	167	ASN	N-CA-CB	5.34	120.21	110.60
39	BF	166	ARG	NE-CZ-NH2	-5.34	117.63	120.30
1	AA	707	U	C5'-C4'-O4'	-5.33	102.70	109.10
11	AK	76	TYR	CZ-CE2-CD2	-5.33	115.00	119.80
35	BB	459	U	C4-C5-C6	5.33	122.90	119.70
35	BB	676	A	O4'-C1'-N9	5.33	112.47	108.20
35	BB	2183	A	C3'-C2'-C1'	-5.33	97.23	101.50
35	BB	2531	A	N9-C4-C5	5.33	107.93	105.80
1	AA	69	G	C4-C5-C6	5.33	122.00	118.80
1	AA	561	U	N3-C4-C5	5.33	117.80	114.60
1	AA	1335	U	C2-N1-C1'	5.33	124.10	117.70
35	BB	629	G	C4-N9-C1'	-5.33	119.57	126.50
35	BB	951	C	C1'-O4'-C4'	-5.33	105.63	109.90
35	BB	1019	U	N3-C4-O4	5.33	123.13	119.40
35	BB	1157	G	C5'-C4'-C3'	-5.33	107.47	116.00
35	BB	1332	G	C4-C5-N7	5.33	112.93	110.80
37	BD	169	ARG	NE-CZ-NH1	-5.33	117.63	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	125	A	P-O5'-C5'	-5.33	112.37	120.90
35	BB	749	A	C6-C5-N7	-5.33	128.57	132.30
35	BB	806	C	P-O3'-C3'	-5.33	113.30	119.70
35	BB	822	G	N3-C2-N2	5.33	123.63	119.90
35	BB	1382	G	C6-N1-C2	-5.33	121.90	125.10
35	BB	1488	C	N3-C4-N4	5.33	121.73	118.00
35	BB	1699	G	C4-C5-N7	-5.33	108.67	110.80
35	BB	2735	G	C5-C6-O6	-5.33	125.40	128.60
35	BB	2903	U	C5-C4-O4	-5.33	122.70	125.90
1	AA	591	U	C4-C5-C6	-5.33	116.50	119.70
1	AA	921	U	P-O3'-C3'	-5.33	113.30	119.70
1	AA	1129	C	C2-N1-C1'	5.33	124.66	118.80
34	BA	80	U	O3'-P-O5'	-5.33	93.87	104.00
35	BB	962	G	N7-C8-N9	-5.33	110.44	113.10
35	BB	1853	A	N3-C4-N9	5.33	131.66	127.40
35	BB	2061	G	O3'-P-O5'	-5.33	93.87	104.00
1	AA	77	A	C3'-C2'-C1'	-5.33	97.24	101.50
1	AA	128	G	C5-N7-C8	5.33	106.96	104.30
1	AA	235	C	N3-C4-N4	5.33	121.73	118.00
1	AA	666	G	C5-N7-C8	5.33	106.96	104.30
1	AA	676	A	C2-N3-C4	5.33	113.26	110.60
1	AA	691	G	N3-C2-N2	5.33	123.63	119.90
1	AA	705	G	C4-C5-C6	5.33	122.00	118.80
1	AA	991	U	N3-C4-O4	5.33	123.13	119.40
1	AA	1156	G	C4-C5-C6	5.33	122.00	118.80
14	AN	52	ARG	N-CA-CB	5.33	120.19	110.60
35	BB	384	A	O4'-C1'-N9	5.33	112.46	108.20
35	BB	937	C	C5'-C4'-C3'	-5.33	107.47	116.00
35	BB	1270	C	C5-C6-N1	5.33	123.66	121.00
35	BB	1658	C	C5-C4-N4	-5.33	116.47	120.20
35	BB	1903	G	C4'-C3'-C2'	-5.33	97.27	102.60
35	BB	2097	A	C4-C5-N7	5.33	113.36	110.70
35	BB	2372	U	O4'-C1'-N1	5.33	112.46	108.20
35	BB	2708	G	N1-C6-O6	5.33	123.10	119.90
1	AA	1459	G	OP1-P-OP2	-5.33	111.61	119.60
35	BB	1350	C	O4'-C4'-C3'	-5.33	98.67	104.00
35	BB	1905	C	C5'-C4'-O4'	5.33	115.49	109.10
35	BB	2325	G	N9-C4-C5	-5.33	103.27	105.40
1	AA	100	G	N3-C2-N2	5.33	123.63	119.90
1	AA	373	A	N1-C2-N3	-5.33	126.64	129.30
1	AA	1059	C	C5'-C4'-C3'	-5.33	107.48	116.00
1	AA	1277	C	C5-C4-N4	-5.33	116.47	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1454	G	N7-C8-N9	5.33	115.76	113.10
2	AB	73	ARG	NE-CZ-NH1	5.33	122.96	120.30
35	BB	23	G	C5'-C4'-O4'	5.33	115.49	109.10
35	BB	564	C	N3-C4-C5	-5.33	119.77	121.90
1	AA	153	C	P-O3'-C3'	-5.32	113.31	119.70
1	AA	1048	G	C8-N9-C4	-5.32	104.27	106.40
1	AA	1150	A	O4'-C4'-C3'	-5.32	98.68	104.00
35	BB	1438	U	C4-C5-C6	5.32	122.89	119.70
35	BB	1648	U	N3-C4-O4	5.32	123.13	119.40
35	BB	2007	U	C2-N3-C4	-5.32	123.81	127.00
35	BB	2259	U	C1'-O4'-C4'	5.32	114.16	109.90
35	BB	2310	C	N3-C4-N4	5.32	121.73	118.00
35	BB	2507	C	N1-C2-O2	-5.32	115.71	118.90
35	BB	2596	U	N1-C2-N3	-5.32	111.71	114.90
35	BB	2684	U	C5-C6-N1	5.32	125.36	122.70
56	BY	34	SER	N-CA-CB	5.32	118.49	110.50
1	AA	361	G	N9-C4-C5	5.32	107.53	105.40
22	AV	59	A	C5-C6-N1	-5.32	115.04	117.70
35	BB	757	G	C8-N9-C4	-5.32	104.27	106.40
35	BB	2266	A	C4-C5-C6	5.32	119.66	117.00
35	BB	2446	G	C5'-C4'-C3'	-5.32	107.48	116.00
36	BC	180	MET	CB-CA-C	-5.32	99.76	110.40
1	AA	392	C	N3-C4-C5	-5.32	119.77	121.90
1	AA	631	C	O3'-P-O5'	-5.32	93.89	104.00
1	AA	968	A	C8-N9-C4	-5.32	103.67	105.80
1	AA	1168	U	OP2-P-O3'	5.32	116.91	105.20
1	AA	1238	A	P-O3'-C3'	5.32	126.08	119.70
1	AA	1405	G	N3-C4-C5	-5.32	125.94	128.60
22	AV	41	C	N3-C4-C5	-5.32	119.77	121.90
34	BA	67	G	C4'-C3'-C2'	-5.32	97.28	102.60
35	BB	143	C	C5'-C4'-C3'	5.32	124.51	116.00
35	BB	479	A	C5-C6-N6	-5.32	119.44	123.70
35	BB	949	G	C6-N1-C2	5.32	128.29	125.10
35	BB	1121	C	P-O3'-C3'	-5.32	113.32	119.70
35	BB	1137	G	N9-C4-C5	5.32	107.53	105.40
35	BB	1169	A	C2-N3-C4	-5.32	107.94	110.60
35	BB	1569	A	N7-C8-N9	5.32	116.46	113.80
35	BB	1746	A	N1-C2-N3	5.32	131.96	129.30
35	BB	2049	G	O5'-C5'-C4'	-5.32	101.59	111.70
35	BB	2657	A	C6-C5-N7	-5.32	128.58	132.30
35	BB	2866	U	C5-C6-N1	-5.32	120.04	122.70
37	BD	194	PRO	N-CD-CG	5.32	111.18	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	167	A	C6-C5-N7	-5.32	128.58	132.30
1	AA	534	U	N1-C2-N3	-5.32	111.71	114.90
1	AA	720	C	C5-C4-N4	-5.32	116.48	120.20
1	AA	1089	G	C4'-C3'-C2'	-5.32	97.28	102.60
1	AA	1191	A	P-O5'-C5'	5.32	129.41	120.90
1	AA	1419	G	C5-C6-N1	-5.32	108.84	111.50
35	BB	796	C	O4'-C4'-C3'	-5.32	98.68	104.00
35	BB	828	U	C1'-O4'-C4'	-5.32	105.64	109.90
35	BB	1964	G	C5'-C4'-O4'	5.32	115.48	109.10
35	BB	2770	G	N1-C2-N3	5.32	127.09	123.90
1	AA	359	G	N7-C8-N9	-5.32	110.44	113.10
1	AA	950	U	P-O5'-C5'	5.32	129.41	120.90
1	AA	1252	A	C2-N3-C4	-5.32	107.94	110.60
1	AA	1298	U	C4-C5-C6	5.32	122.89	119.70
1	AA	1303	C	N1-C2-O2	-5.32	115.71	118.90
2	AB	138	ARG	NE-CZ-NH2	-5.32	117.64	120.30
35	BB	415	A	C5-C6-N1	-5.32	115.04	117.70
35	BB	469	G	C8-N9-C1'	-5.32	120.09	127.00
35	BB	651	G	C6-C5-N7	5.32	133.59	130.40
35	BB	1299	G	N1-C6-O6	5.32	123.09	119.90
35	BB	1618	A	N9-C4-C5	-5.32	103.67	105.80
35	BB	1724	G	C4-C5-N7	5.32	112.93	110.80
35	BB	2537	U	C5-C6-N1	5.32	125.36	122.70
39	BF	100	GLU	N-CA-C	-5.32	96.64	111.00
52	BS	105	VAL	CA-CB-CG2	-5.32	102.92	110.90
1	AA	390	U	C5-C6-N1	5.32	125.36	122.70
1	AA	612	C	C4-C5-C6	5.32	120.06	117.40
1	AA	1026	G	C8-N9-C4	-5.32	104.27	106.40
1	AA	1175	G	C5-C6-N1	-5.32	108.84	111.50
13	AM	67	ASP	N-CA-CB	5.32	120.17	110.60
35	BB	47	C	C4-C5-C6	-5.32	114.74	117.40
35	BB	253	C	P-O3'-C3'	-5.32	113.32	119.70
35	BB	474	G	N3-C2-N2	5.32	123.62	119.90
35	BB	914	G	C2-N3-C4	-5.32	109.24	111.90
35	BB	1185	G	N1-C6-O6	5.32	123.09	119.90
35	BB	1234	U	N1-C2-O2	5.32	126.52	122.80
35	BB	1321	A	N9-C4-C5	5.32	107.93	105.80
35	BB	1416	G	C6-C5-N7	-5.32	127.21	130.40
35	BB	1459	G	C5-C6-N1	5.32	114.16	111.50
35	BB	2654	A	O4'-C1'-N9	5.32	112.45	108.20
35	BB	2714	G	C4-C5-N7	-5.32	108.67	110.80
35	BB	2774	C	C1'-O4'-C4'	5.32	114.15	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BQ	90	ASP	N-CA-CB	5.32	120.17	110.60
1	AA	317	U	C5'-C4'-C3'	-5.31	107.50	116.00
18	AR	56	ARG	CD-NE-CZ	-5.31	116.16	123.60
22	AV	31	C	N3-C4-C5	-5.31	119.77	121.90
22	AV	64	C	N3-C4-C5	-5.31	119.77	121.90
30	B5	163	TYR	CG-CD1-CE1	-5.31	117.05	121.30
35	BB	1471	G	C5-C6-N1	-5.31	108.84	111.50
35	BB	1915	U	N1-C1'-C2'	-5.31	106.16	112.00
35	BB	2151	U	C3'-C2'-C1'	-5.31	97.25	101.50
35	BB	2823	A	C2-N3-C4	5.31	113.26	110.60
1	AA	672	U	C1'-O4'-C4'	5.31	114.15	109.90
1	AA	791	G	N1-C6-O6	5.31	123.09	119.90
1	AA	1263	C	C6-N1-C2	-5.31	118.17	120.30
2	AB	116	LEU	CB-CG-CD1	-5.31	101.97	111.00
35	BB	14	A	C5-C6-N6	-5.31	119.45	123.70
35	BB	340	A	C4-C5-N7	-5.31	108.04	110.70
35	BB	974	G	N1-C2-N2	-5.31	111.42	116.20
35	BB	1380	G	C4-N9-C1'	5.31	133.41	126.50
35	BB	1393	A	C1'-O4'-C4'	-5.31	105.65	109.90
35	BB	1749	A	C8-N9-C4	-5.31	103.67	105.80
35	BB	1868	C	N3-C4-N4	5.31	121.72	118.00
35	BB	2266	A	N1-C6-N6	5.31	121.79	118.60
35	BB	2735	G	C5-N7-C8	5.31	106.96	104.30
1	AA	413	G	C8-N9-C4	5.31	108.52	106.40
1	AA	765	G	C6-N1-C2	5.31	128.29	125.10
1	AA	1242	G	C6-C5-N7	-5.31	127.21	130.40
1	AA	1522	U	C4-C5-C6	-5.31	116.51	119.70
35	BB	375	G	C5'-C4'-C3'	-5.31	107.50	116.00
35	BB	717	C	N3-C4-C5	-5.31	119.78	121.90
35	BB	876	C	C4-C5-C6	5.31	120.06	117.40
35	BB	1568	G	C4'-C3'-C2'	5.31	107.91	102.60
35	BB	2741	A	C4-C5-C6	5.31	119.66	117.00
1	AA	16	A	C6-C5-N7	-5.31	128.58	132.30
1	AA	220	G	C6-C5-N7	-5.31	127.21	130.40
1	AA	297	G	N1-C6-O6	5.31	123.08	119.90
1	AA	434	U	C6-N1-C2	-5.31	117.81	121.00
1	AA	613	C	C5-C4-N4	-5.31	116.48	120.20
1	AA	1226	C	N1-C1'-C2'	5.31	120.90	114.00
1	AA	1385	G	N1-C2-N3	-5.31	120.71	123.90
4	AD	46	ARG	NE-CZ-NH2	-5.31	117.65	120.30
4	AD	98	ASP	CB-CG-OD2	-5.31	113.52	118.30
35	BB	18	U	C6-N1-C1'	-5.31	113.77	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	128	C	N3-C4-N4	5.31	121.72	118.00
35	BB	185	G	C5-C6-O6	-5.31	125.41	128.60
35	BB	270	A	C4-C5-C6	5.31	119.65	117.00
35	BB	675	A	O4'-C1'-N9	5.31	112.45	108.20
35	BB	867	C	C5-C4-N4	-5.31	116.48	120.20
35	BB	881	G	C5'-C4'-O4'	5.31	115.47	109.10
35	BB	1738	G	C4-C5-C6	-5.31	115.61	118.80
35	BB	2006	C	C4'-C3'-C2'	-5.31	97.29	102.60
35	BB	2420	C	C6-N1-C2	5.31	122.42	120.30
35	BB	2856	A	C5-C6-N1	-5.31	115.05	117.70
35	BB	2891	U	C2-N1-C1'	5.31	124.07	117.70
1	AA	310	G	C4-C5-N7	-5.31	108.68	110.80
1	AA	485	U	C6-N1-C1'	-5.31	113.77	121.20
1	AA	821	G	P-O3'-C3'	-5.31	113.33	119.70
1	AA	1027	C	C5-C6-N1	5.31	123.65	121.00
1	AA	1133	G	N3-C4-N9	-5.31	122.81	126.00
1	AA	1172	C	C5'-C4'-C3'	-5.31	107.51	116.00
1	AA	1222	G	C6-C5-N7	-5.31	127.22	130.40
1	AA	1292	G	P-O3'-C3'	-5.31	113.33	119.70
1	AA	1463	U	N1-C2-N3	-5.31	111.72	114.90
35	BB	473	G	C4-C5-N7	-5.31	108.68	110.80
35	BB	944	C	P-O5'-C5'	-5.31	112.41	120.90
35	BB	1019	U	C1'-O4'-C4'	5.31	114.14	109.90
35	BB	1313	U	C2-N1-C1'	5.31	124.07	117.70
35	BB	1925	C	C5-C6-N1	-5.31	118.35	121.00
35	BB	2414	G	O4'-C4'-C3'	-5.31	98.69	104.00
1	AA	218	U	N3-C4-O4	-5.31	115.69	119.40
1	AA	766	A	O4'-C1'-N9	5.31	112.44	108.20
35	BB	23	G	C4-C5-C6	5.31	121.98	118.80
35	BB	38	A	C6-N1-C2	-5.31	115.42	118.60
35	BB	105	C	N1-C2-N3	-5.31	115.49	119.20
35	BB	248	G	C5-C6-O6	-5.31	125.42	128.60
35	BB	306	U	C3'-C2'-C1'	-5.31	97.25	101.50
35	BB	1174	U	C4'-C3'-C2'	-5.31	97.29	102.60
35	BB	2162	G	O3'-P-O5'	-5.31	93.92	104.00
35	BB	2578	G	C5'-C4'-C3'	-5.31	107.51	116.00
49	BP	24	THR	O-C-N	5.31	131.19	122.70
1	AA	97	G	N1-C2-N3	-5.30	120.72	123.90
1	AA	332	G	N7-C8-N9	5.30	115.75	113.10
1	AA	707	U	N3-C2-O2	5.30	125.91	122.20
1	AA	889	A	C4-C5-C6	5.30	119.65	117.00
1	AA	1347	G	O4'-C1'-N9	5.30	112.44	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1488	G	P-O3'-C3'	-5.30	113.34	119.70
34	BA	74	U	N1-C2-N3	-5.30	111.72	114.90
35	BB	321	U	C5-C6-N1	5.30	125.35	122.70
35	BB	586	A	P-O3'-C3'	-5.30	113.34	119.70
35	BB	938	G	N3-C2-N2	5.30	123.61	119.90
35	BB	1153	C	O4'-C1'-N1	5.30	112.44	108.20
35	BB	1626	A	P-O3'-C3'	-5.30	113.33	119.70
35	BB	2163	A	N9-C4-C5	5.30	107.92	105.80
35	BB	2769	U	C5-C4-O4	-5.30	122.72	125.90
1	AA	212	G	C6-C5-N7	-5.30	127.22	130.40
1	AA	255	G	C4'-C3'-C2'	-5.30	97.30	102.60
1	AA	1210	C	C5-C4-N4	-5.30	116.49	120.20
35	BB	295	G	N7-C8-N9	5.30	115.75	113.10
35	BB	707	G	C5-C6-N1	-5.30	108.85	111.50
35	BB	1458	U	O4'-C1'-C2'	-5.30	100.50	105.80
35	BB	1492	G	O4'-C4'-C3'	-5.30	98.70	104.00
35	BB	2009	A	N1-C2-N3	-5.30	126.65	129.30
1	AA	196	A	C5-N7-C8	5.30	106.55	103.90
1	AA	1003	G	C5-C6-O6	-5.30	125.42	128.60
9	AI	31	GLN	N-CA-CB	5.30	120.14	110.60
34	BA	95	U	C3'-C2'-C1'	-5.30	97.26	101.50
35	BB	173	A	O4'-C1'-N9	5.30	112.44	108.20
35	BB	241	A	C5'-C4'-O4'	5.30	115.46	109.10
35	BB	929	U	O4'-C1'-N1	5.30	112.44	108.20
35	BB	1100	C	N1-C2-O2	-5.30	115.72	118.90
35	BB	1139	G	N1-C2-N3	-5.30	120.72	123.90
35	BB	1228	G	N9-C4-C5	-5.30	103.28	105.40
35	BB	1461	C	P-O5'-C5'	-5.30	112.42	120.90
35	BB	1597	A	C8-N9-C4	-5.30	103.68	105.80
35	BB	1808	A	C6-C5-N7	-5.30	128.59	132.30
35	BB	2207	C	C1'-O4'-C4'	-5.30	105.66	109.90
35	BB	2407	A	N1-C2-N3	5.30	131.95	129.30
35	BB	2711	A	C6-N1-C2	-5.30	115.42	118.60
35	BB	2822	G	N7-C8-N9	-5.30	110.45	113.10
35	BB	2837	A	N3-C4-N9	5.30	131.64	127.40
1	AA	162	A	C5-C6-N1	-5.30	115.05	117.70
1	AA	253	A	C5-C6-N1	-5.30	115.05	117.70
1	AA	380	G	P-O3'-C3'	-5.30	113.34	119.70
1	AA	405	U	C6-N1-C2	-5.30	117.82	121.00
1	AA	517	G	N1-C2-N2	5.30	120.97	116.20
1	AA	1058	G	N1-C2-N3	-5.30	120.72	123.90
3	AC	145	ALA	N-CA-CB	5.30	117.52	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	AI	86	LEU	N-CA-C	-5.30	96.69	111.00
15	AO	71	ARG	NH1-CZ-NH2	5.30	125.23	119.40
30	B5	216	THR	C-N-CA	5.30	134.95	121.70
35	BB	441	U	P-O5'-C5'	5.30	129.38	120.90
35	BB	958	U	C5-C4-O4	5.30	129.08	125.90
35	BB	1080	A	C4-C5-C6	5.30	119.65	117.00
35	BB	1167	C	OP2-P-O3'	5.30	116.86	105.20
35	BB	1492	G	N3-C2-N2	5.30	123.61	119.90
35	BB	1522	A	O4'-C1'-N9	5.30	112.44	108.20
35	BB	1862	G	N9-C4-C5	5.30	107.52	105.40
35	BB	2189	U	O4'-C1'-N1	5.30	112.44	108.20
35	BB	2285	C	C6-N1-C2	5.30	122.42	120.30
35	BB	2465	C	C5-C6-N1	5.30	123.65	121.00
38	BE	163	ASN	CB-CG-OD1	-5.30	111.00	121.60
1	AA	433	G	C6-C5-N7	-5.30	127.22	130.40
1	AA	832	G	N1-C2-N3	-5.30	120.72	123.90
1	AA	1184	G	N9-C4-C5	-5.30	103.28	105.40
1	AA	1432	G	N7-C8-N9	5.30	115.75	113.10
1	AA	1459	G	C4-C5-C6	5.30	121.98	118.80
35	BB	688	U	C5-C4-O4	-5.30	122.72	125.90
35	BB	1025	G	C2-N3-C4	-5.30	109.25	111.90
35	BB	1070	A	C8-N9-C4	-5.30	103.68	105.80
35	BB	1107	G	N9-C1'-C2'	-5.30	106.17	112.00
1	AA	203	G	C6-C5-N7	-5.30	127.22	130.40
1	AA	555	U	O4'-C1'-N1	5.30	112.44	108.20
1	AA	1379	G	N3-C4-C5	-5.30	125.95	128.60
1	AA	1434	A	N3-C4-C5	-5.30	123.09	126.80
1	AA	1437	A	N1-C2-N3	-5.30	126.65	129.30
1	AA	1445	U	C5-C6-N1	-5.30	120.05	122.70
20	AT	58	ASP	CB-CG-OD1	5.30	123.07	118.30
35	BB	14	A	O4'-C1'-N9	5.30	112.44	108.20
35	BB	1003	G	C5-C6-O6	-5.30	125.42	128.60
35	BB	1067	A	C4'-C3'-C2'	5.30	107.90	102.60
35	BB	1103	A	P-O5'-C5'	5.30	129.37	120.90
35	BB	1158	C	P-O5'-C5'	5.30	129.37	120.90
35	BB	1214	A	C4-C5-N7	5.30	113.35	110.70
35	BB	1451	C	P-O3'-C3'	-5.30	113.34	119.70
35	BB	1711	A	C5-N7-C8	5.30	106.55	103.90
35	BB	1734	G	C5-N7-C8	5.30	106.95	104.30
35	BB	2184	A	N9-C4-C5	-5.30	103.68	105.80
35	BB	2674	G	C6-C5-N7	-5.30	127.22	130.40
35	BB	2869	G	C6-N1-C2	-5.30	121.92	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	461	A	N7-C8-N9	-5.29	111.15	113.80
35	BB	812	C	C6-N1-C2	5.29	122.42	120.30
35	BB	1428	C	C2-N3-C4	5.29	122.55	119.90
35	BB	1492	G	C1'-O4'-C4'	5.29	114.14	109.90
35	BB	1681	G	C3'-C2'-C1'	-5.29	97.26	101.50
35	BB	2057	G	C6-C5-N7	-5.29	127.22	130.40
35	BB	2896	C	C6-N1-C2	-5.29	118.18	120.30
1	AA	389	A	C6-C5-N7	-5.29	128.59	132.30
1	AA	710	G	P-O5'-C5'	-5.29	112.43	120.90
1	AA	1055	A	P-O5'-C5'	-5.29	112.43	120.90
1	AA	1239	A	C5'-C4'-O4'	5.29	115.45	109.10
1	AA	1289	A	C5'-C4'-O4'	5.29	115.45	109.10
1	AA	1347	G	P-O3'-C3'	5.29	126.05	119.70
1	AA	1504	G	N1-C2-N3	-5.29	120.72	123.90
15	AO	74	VAL	CA-CB-CG2	-5.29	102.96	110.90
35	BB	400	G	C5-N7-C8	5.29	106.95	104.30
35	BB	905	A	C4-C5-C6	5.29	119.65	117.00
35	BB	952	G	C3'-C2'-C1'	-5.29	97.27	101.50
35	BB	1300	G	N9-C4-C5	-5.29	103.28	105.40
35	BB	1545	A	C3'-C2'-C1'	-5.29	97.27	101.50
35	BB	1886	U	N1-C2-O2	5.29	126.50	122.80
35	BB	2172	U	C3'-C2'-C1'	-5.29	97.27	101.50
35	BB	2464	G	N1-C2-N3	-5.29	120.72	123.90
35	BB	2616	C	C2-N3-C4	5.29	122.55	119.90
1	AA	154	U	C4'-C3'-C2'	-5.29	97.31	102.60
1	AA	155	A	C4-C5-N7	5.29	113.35	110.70
1	AA	274	A	C4-C5-C6	5.29	119.65	117.00
1	AA	1423	G	C5-C6-O6	-5.29	125.42	128.60
22	AV	15	G	O4'-C1'-N9	5.29	112.43	108.20
24	AZ	24	ALA	CA-C-O	-5.29	108.99	120.10
34	BA	23	G	N9-C4-C5	-5.29	103.28	105.40
35	BB	145	C	C6-N1-C2	-5.29	118.18	120.30
35	BB	169	G	N3-C2-N2	5.29	123.60	119.90
35	BB	755	U	C5-C4-O4	-5.29	122.72	125.90
35	BB	1169	A	C4-C5-C6	5.29	119.65	117.00
35	BB	1967	C	C5-C4-N4	-5.29	116.50	120.20
35	BB	1977	A	C4'-C3'-C2'	-5.29	97.31	102.60
37	BD	46	ARG	N-CA-C	-5.29	96.71	111.00
1	AA	117	G	N3-C2-N2	5.29	123.60	119.90
1	AA	217	C	C5-C4-N4	-5.29	116.50	120.20
1	AA	1440	U	N3-C2-O2	5.29	125.90	122.20
1	AA	1520	C	C5'-C4'-O4'	5.29	115.45	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	891	G	P-O5'-C5'	5.29	129.36	120.90
35	BB	1461	C	C2-N3-C4	5.29	122.55	119.90
35	BB	2033	A	N3-C4-N9	5.29	131.63	127.40
35	BB	2445	G	N3-C4-N9	-5.29	122.83	126.00
1	AA	116	A	C6-C5-N7	-5.29	128.60	132.30
1	AA	602	A	P-O3'-C3'	-5.29	113.35	119.70
1	AA	725	G	C6-C5-N7	-5.29	127.23	130.40
1	AA	947	G	C5-N7-C8	-5.29	101.66	104.30
1	AA	1407	C	N1-C2-N3	-5.29	115.50	119.20
2	AB	8	MET	CA-CB-CG	5.29	122.29	113.30
22	AV	13	C	C1'-O4'-C4'	-5.29	105.67	109.90
34	BA	34	A	N9-C4-C5	5.29	107.92	105.80
35	BB	253	C	C6-N1-C2	-5.29	118.18	120.30
35	BB	448	U	N3-C2-O2	-5.29	118.50	122.20
35	BB	915	C	O5'-P-OP1	-5.29	100.94	105.70
35	BB	1024	G	P-O3'-C3'	5.29	126.05	119.70
35	BB	1245	G	N1-C2-N2	-5.29	111.44	116.20
35	BB	1546	G	C2-N3-C4	5.29	114.54	111.90
35	BB	1562	U	P-O5'-C5'	5.29	129.36	120.90
35	BB	1669	A	C8-N9-C4	-5.29	103.69	105.80
35	BB	2049	G	N1-C2-N3	-5.29	120.73	123.90
35	BB	2184	A	C4-C5-C6	5.29	119.64	117.00
35	BB	2558	C	C5-C6-N1	5.29	123.64	121.00
35	BB	2665	A	C4'-C3'-C2'	-5.29	97.31	102.60
36	BC	102	TYR	CG-CD2-CE2	5.29	125.53	121.30
1	AA	43	C	P-O3'-C3'	5.29	126.04	119.70
1	AA	517	G	N9-C4-C5	5.29	107.52	105.40
1	AA	1292	G	C4-C5-C6	5.29	121.97	118.80
2	AB	146	SER	CB-CA-C	-5.29	100.06	110.10
22	AV	59	A	C5-C6-N6	-5.29	119.47	123.70
35	BB	127	A	C4-C5-C6	5.29	119.64	117.00
35	BB	1049	C	C2-N3-C4	5.29	122.54	119.90
35	BB	1102	C	N3-C4-N4	5.29	121.70	118.00
35	BB	1897	G	C8-N9-C4	5.29	108.52	106.40
35	BB	2556	C	O4'-C4'-C3'	-5.29	98.71	104.00
1	AA	573	A	C8-N9-C4	-5.29	103.69	105.80
1	AA	586	C	C5-C4-N4	-5.29	116.50	120.20
1	AA	682	G	N1-C2-N3	5.29	127.07	123.90
1	AA	812	G	N3-C4-C5	-5.29	125.96	128.60
1	AA	851	G	C4-C5-N7	5.29	112.91	110.80
1	AA	942	G	P-O5'-C5'	5.29	129.36	120.90
1	AA	997	U	O4'-C1'-C2'	-5.29	100.51	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1124	G	C6-N1-C2	5.29	128.27	125.10
1	AA	1303	C	C3'-C2'-C1'	-5.29	97.27	101.50
1	AA	1430	A	C4-C5-N7	-5.29	108.06	110.70
2	AB	195	VAL	CA-CB-CG2	-5.29	102.97	110.90
12	AL	60	PHE	N-CA-CB	5.29	120.11	110.60
27	B2	28	LEU	CB-CG-CD2	5.29	119.98	111.00
34	BA	4	C	N1-C2-O2	5.29	122.07	118.90
35	BB	302	C	P-O3'-C3'	-5.29	113.36	119.70
35	BB	320	A	OP1-P-O3'	5.29	116.83	105.20
35	BB	324	A	C2-N3-C4	5.29	113.24	110.60
35	BB	830	G	N1-C6-O6	5.29	123.07	119.90
35	BB	1122	G	C6-N1-C2	5.29	128.27	125.10
35	BB	1445	G	N3-C4-N9	5.29	129.17	126.00
35	BB	1848	A	C4-C5-C6	5.29	119.64	117.00
35	BB	2077	A	C5-C6-N6	-5.29	119.47	123.70
35	BB	2343	U	C1'-O4'-C4'	5.29	114.13	109.90
35	BB	2485	G	C4'-C3'-C2'	-5.29	97.31	102.60
35	BB	2874	C	C2-N3-C4	-5.29	117.26	119.90
44	BK	32	TYR	CD1-CE1-CZ	-5.29	115.04	119.80
1	AA	325	A	N9-C4-C5	5.28	107.91	105.80
1	AA	326	G	C4'-C3'-C2'	5.28	107.88	102.60
1	AA	799	G	C4-C5-N7	-5.28	108.69	110.80
1	AA	933	G	C4-N9-C1'	-5.28	119.63	126.50
14	AN	16	ALA	N-CA-CB	5.28	117.50	110.10
35	BB	685	A	C8-N9-C4	5.28	107.91	105.80
35	BB	735	A	C8-N9-C4	-5.28	103.69	105.80
35	BB	1086	A	OP1-P-OP2	-5.28	111.67	119.60
35	BB	1167	C	C5'-C4'-C3'	5.28	124.45	116.00
35	BB	1490	A	C4-C5-N7	-5.28	108.06	110.70
35	BB	2197	U	N1-C1'-C2'	-5.28	106.19	112.00
35	BB	2637	U	N1-C2-O2	5.28	126.50	122.80
35	BB	2862	G	N1-C2-N3	-5.28	120.73	123.90
35	BB	2862	G	N3-C2-N2	-5.28	116.20	119.90
1	AA	111	G	N1-C2-N3	-5.28	120.73	123.90
1	AA	462	G	C3'-C2'-C1'	5.28	105.72	101.50
1	AA	1044	A	C6-N1-C2	-5.28	115.43	118.60
34	BA	56	G	O4'-C1'-N9	5.28	112.42	108.20
35	BB	25	U	C5-C4-O4	-5.28	122.73	125.90
35	BB	207	A	C5'-C4'-C3'	-5.28	107.55	116.00
35	BB	775	G	O4'-C1'-N9	5.28	112.43	108.20
35	BB	1369	G	O4'-C1'-N9	5.28	112.43	108.20
35	BB	1370	C	P-O3'-C3'	-5.28	113.36	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1374	G	C5-N7-C8	-5.28	101.66	104.30
35	BB	1801	A	N1-C6-N6	5.28	121.77	118.60
35	BB	2360	G	C5-C6-N1	5.28	114.14	111.50
51	BR	2	TYR	CB-CA-C	-5.28	99.84	110.40
1	AA	60	A	C5-C6-N1	-5.28	115.06	117.70
1	AA	230	G	C8-N9-C1'	5.28	133.86	127.00
1	AA	294	U	N3-C4-O4	5.28	123.10	119.40
1	AA	1033	G	C5'-C4'-C3'	5.28	124.45	116.00
1	AA	1144	G	C5'-C4'-O4'	5.28	115.44	109.10
34	BA	102	G	N1-C2-N3	5.28	127.07	123.90
35	BB	395	U	N1-C1'-C2'	-5.28	106.19	112.00
35	BB	402	A	C6-N1-C2	-5.28	115.43	118.60
35	BB	764	A	P-O3'-C3'	-5.28	113.36	119.70
35	BB	1036	G	N1-C6-O6	5.28	123.07	119.90
35	BB	1387	A	P-O3'-C3'	5.28	126.04	119.70
35	BB	1684	G	C2-N3-C4	5.28	114.54	111.90
35	BB	1705	A	C8-N9-C4	5.28	107.91	105.80
35	BB	1723	G	P-O3'-C3'	-5.28	113.36	119.70
35	BB	2116	G	N1-C2-N3	-5.28	120.73	123.90
35	BB	2335	A	C5-N7-C8	5.28	106.54	103.90
35	BB	2489	U	N1-C2-N3	-5.28	111.73	114.90
35	BB	2582	G	C8-N9-C4	-5.28	104.29	106.40
43	BJ	30	THR	CA-CB-CG2	-5.28	105.01	112.40
47	BN	38	LEU	CB-CG-CD1	-5.28	102.02	111.00
1	AA	886	G	N3-C2-N2	5.28	123.60	119.90
35	BB	1397	U	C6-N1-C2	-5.28	117.83	121.00
35	BB	2279	G	C4'-C3'-C2'	-5.28	97.32	102.60
35	BB	2397	G	C5-C6-O6	-5.28	125.43	128.60
35	BB	2608	G	P-O3'-C3'	5.28	126.03	119.70
1	AA	236	A	C4-C5-N7	-5.28	108.06	110.70
1	AA	238	A	C3'-C2'-C1'	-5.28	97.28	101.50
1	AA	302	G	N1-C6-O6	5.28	123.07	119.90
1	AA	346	G	N3-C4-C5	-5.28	125.96	128.60
1	AA	779	C	C5-C6-N1	5.28	123.64	121.00
1	AA	831	A	C8-N9-C4	-5.28	103.69	105.80
1	AA	930	C	C4'-C3'-C2'	-5.28	97.32	102.60
1	AA	1434	A	C5-C6-N6	-5.28	119.48	123.70
35	BB	178	G	N1-C2-N3	-5.28	120.73	123.90
35	BB	898	C	C6-N1-C2	-5.28	118.19	120.30
35	BB	912	C	P-O3'-C3'	5.28	126.03	119.70
35	BB	994	C	C5-C4-N4	-5.28	116.51	120.20
35	BB	1577	C	C2-N1-C1'	5.28	124.61	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2403	C	OP1-P-O3'	5.28	116.81	105.20
35	BB	2649	C	C1'-O4'-C4'	5.28	114.12	109.90
35	BB	2669	G	C4-C5-N7	5.28	112.91	110.80
35	BB	2806	C	N3-C4-C5	-5.28	119.79	121.90
46	BM	38	ARG	NE-CZ-NH1	5.28	122.94	120.30
1	AA	710	G	N3-C4-C5	-5.28	125.96	128.60
1	AA	805	C	N3-C4-N4	5.28	121.69	118.00
1	AA	1374	A	C5-N7-C8	5.28	106.54	103.90
1	AA	1495	U	C1'-O4'-C4'	5.28	114.12	109.90
30	B5	13	GLU	N-CA-CB	-5.28	101.11	110.60
35	BB	705	A	C6-C5-N7	-5.28	128.61	132.30
35	BB	830	G	O3'-P-O5'	-5.28	93.98	104.00
35	BB	890	C	C5'-C4'-O4'	5.28	115.43	109.10
35	BB	1138	G	N7-C8-N9	-5.28	110.46	113.10
35	BB	1147	A	N7-C8-N9	5.28	116.44	113.80
35	BB	1826	G	C5-C6-O6	-5.28	125.43	128.60
35	BB	2194	U	C5'-C4'-C3'	5.28	124.44	116.00
35	BB	2284	A	C5'-C4'-C3'	5.28	124.44	116.00
35	BB	2393	U	C4-C5-C6	-5.28	116.53	119.70
35	BB	2425	A	C2'-C3'-O3'	5.28	122.14	113.70
35	BB	2692	G	N9-C1'-C2'	-5.28	106.20	112.00
36	BC	82	TYR	CD1-CE1-CZ	5.28	124.55	119.80
1	AA	281	G	P-O5'-C5'	5.27	129.34	120.90
1	AA	401	C	C2-N3-C4	-5.27	117.26	119.90
1	AA	1393	U	N1-C2-N3	-5.27	111.73	114.90
1	AA	1518	A	C4-C5-N7	-5.27	108.06	110.70
35	BB	236	C	C2-N1-C1'	5.27	124.60	118.80
35	BB	1557	C	C2-N3-C4	5.27	122.54	119.90
35	BB	1885	A	C5-N7-C8	5.27	106.54	103.90
35	BB	2055	C	C2-N1-C1'	5.27	124.60	118.80
35	BB	2436	G	C4-C5-C6	5.27	121.96	118.80
1	AA	137	U	O4'-C1'-N1	5.27	112.42	108.20
1	AA	318	G	C8-N9-C1'	5.27	133.85	127.00
1	AA	552	U	N1-C2-O2	-5.27	119.11	122.80
1	AA	715	A	N1-C2-N3	5.27	131.94	129.30
1	AA	785	G	C1'-O4'-C4'	5.27	114.12	109.90
1	AA	994	A	N7-C8-N9	-5.27	111.16	113.80
1	AA	1065	U	N1-C2-N3	5.27	118.06	114.90
19	AS	79	TYR	CD1-CG-CD2	5.27	123.70	117.90
35	BB	279	A	C4-C5-N7	5.27	113.34	110.70
35	BB	465	G	C8-N9-C4	-5.27	104.29	106.40
35	BB	536	G	O4'-C1'-N9	5.27	112.42	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	665	U	C5-C6-N1	5.27	125.34	122.70
35	BB	712	G	N9-C4-C5	5.27	107.51	105.40
35	BB	1012	U	C2-N3-C4	-5.27	123.84	127.00
35	BB	1075	C	C6-N1-C2	5.27	122.41	120.30
35	BB	1219	U	C5-C4-O4	-5.27	122.74	125.90
35	BB	1246	A	C4-C5-C6	5.27	119.64	117.00
35	BB	1612	C	O4'-C1'-N1	5.27	112.42	108.20
35	BB	1688	U	C5-C4-O4	-5.27	122.74	125.90
35	BB	1985	C	C4-C5-C6	5.27	120.04	117.40
35	BB	2122	U	C4'-C3'-C2'	-5.27	97.33	102.60
35	BB	2152	G	C4-C5-C6	5.27	121.96	118.80
36	BC	173	LEU	CB-CG-CD2	5.27	119.96	111.00
56	BY	34	SER	N-CA-C	-5.27	96.76	111.00
1	AA	81	A	C5-C6-N1	5.27	120.33	117.70
1	AA	423	G	C4'-C3'-C2'	-5.27	97.33	102.60
1	AA	667	G	C5-N7-C8	5.27	106.94	104.30
35	BB	713	G	C4'-C3'-C2'	-5.27	97.33	102.60
35	BB	1584	U	N3-C2-O2	5.27	125.89	122.20
35	BB	1750	G	C6-N1-C2	-5.27	121.94	125.10
35	BB	2140	G	N1-C2-N3	-5.27	120.74	123.90
1	AA	495	A	O4'-C1'-N9	5.27	112.42	108.20
1	AA	645	G	C4-C5-C6	5.27	121.96	118.80
1	AA	826	C	N1-C2-O2	5.27	122.06	118.90
1	AA	1453	G	O5'-C5'-C4'	-5.27	101.69	111.70
32	B7	16	THR	N-CA-CB	5.27	120.31	110.30
35	BB	256	A	C4-C5-C6	5.27	119.63	117.00
35	BB	446	G	C8-N9-C4	5.27	108.51	106.40
35	BB	988	A	N9-C1'-C2'	-5.27	106.20	112.00
35	BB	1099	G	C5-N7-C8	-5.27	101.67	104.30
35	BB	1122	G	N1-C2-N3	-5.27	120.74	123.90
35	BB	1202	G	C6-C5-N7	-5.27	127.24	130.40
35	BB	1454	C	O3'-P-O5'	-5.27	93.99	104.00
35	BB	1668	A	O4'-C1'-N9	5.27	112.42	108.20
35	BB	2273	A	C2-N3-C4	5.27	113.23	110.60
35	BB	2548	U	N3-C4-C5	-5.27	111.44	114.60
42	BI	141	ASP	CA-C-O	-5.27	109.03	120.10
1	AA	538	G	C6-C5-N7	-5.27	127.24	130.40
1	AA	610	U	C4-C5-C6	5.27	122.86	119.70
1	AA	708	C	O3'-P-O5'	-5.27	93.99	104.00
1	AA	1145	A	C5'-C4'-C3'	-5.27	107.57	116.00
35	BB	123	G	C5'-C4'-O4'	5.27	115.42	109.10
35	BB	355	U	N1-C2-O2	5.27	126.49	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	912	C	C5-C6-N1	5.27	123.63	121.00
35	BB	990	A	C6-N1-C2	5.27	121.76	118.60
35	BB	1100	C	N3-C4-C5	-5.27	119.79	121.90
35	BB	1247	A	C6-C5-N7	-5.27	128.61	132.30
35	BB	2075	U	C1'-O4'-C4'	-5.27	105.69	109.90
35	BB	2085	U	N1-C2-N3	-5.27	111.74	114.90
35	BB	2263	C	N1-C2-O2	-5.27	115.74	118.90
35	BB	2410	G	C3'-C2'-C1'	-5.27	97.29	101.50
35	BB	2583	G	C6-C5-N7	-5.27	127.24	130.40
35	BB	2597	G	C8-N9-C4	5.27	108.51	106.40
35	BB	2797	U	C6-N1-C1'	-5.27	113.83	121.20
1	AA	25	C	N1-C2-O2	-5.27	115.74	118.90
1	AA	600	A	N9-C4-C5	-5.27	103.69	105.80
1	AA	790	A	C5-C6-N6	-5.27	119.49	123.70
35	BB	199	A	C4-N9-C1'	-5.27	116.82	126.30
35	BB	213	A	C5-C6-N6	-5.27	119.49	123.70
35	BB	785	G	P-O5'-C5'	-5.27	112.47	120.90
35	BB	1321	A	N3-C4-C5	-5.27	123.11	126.80
1	AA	160	A	N9-C4-C5	5.26	107.91	105.80
1	AA	527	G	N1-C2-N3	5.26	127.06	123.90
1	AA	921	U	C4'-C3'-C2'	-5.26	97.34	102.60
1	AA	1027	C	O4'-C1'-N1	5.26	112.41	108.20
1	AA	1144	G	N3-C4-C5	-5.26	125.97	128.60
1	AA	1497	G	C4-C5-C6	5.26	121.96	118.80
34	BA	31	C	C5-C6-N1	5.26	123.63	121.00
35	BB	119	A	P-O3'-C3'	5.26	126.02	119.70
35	BB	217	A	C8-N9-C1'	5.26	137.18	127.70
35	BB	310	A	C4-C5-N7	-5.26	108.07	110.70
35	BB	585	G	O4'-C1'-N9	5.26	112.41	108.20
35	BB	607	U	C6-N1-C2	-5.26	117.84	121.00
35	BB	719	C	C2-N1-C1'	5.26	124.59	118.80
35	BB	876	C	C3'-C2'-C1'	-5.26	97.29	101.50
35	BB	903	C	C4-C5-C6	-5.26	114.77	117.40
35	BB	1039	A	P-O3'-C3'	-5.26	113.38	119.70
35	BB	1177	G	P-O5'-C5'	5.26	129.32	120.90
35	BB	1377	G	C8-N9-C4	-5.26	104.29	106.40
35	BB	1754	A	C2-N3-C4	5.26	113.23	110.60
35	BB	2029	G	O4'-C1'-N9	5.26	112.41	108.20
35	BB	2283	C	O4'-C1'-C2'	-5.26	100.53	105.80
35	BB	2663	G	C2-N3-C4	-5.26	109.27	111.90
35	BB	2852	G	C6-C5-N7	-5.26	127.24	130.40
35	BB	2886	A	C2-N3-C4	-5.26	107.97	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BE	124	PHE	CB-CG-CD2	5.26	124.49	120.80
1	AA	80	A	O4'-C1'-N9	5.26	112.41	108.20
1	AA	255	G	N7-C8-N9	-5.26	110.47	113.10
1	AA	380	G	N3-C4-N9	5.26	129.16	126.00
4	AD	114	ARG	NE-CZ-NH2	5.26	122.93	120.30
22	AV	70	C	N3-C4-C5	5.26	124.00	121.90
35	BB	1114	C	N3-C4-N4	5.26	121.68	118.00
35	BB	1185	G	O4'-C1'-N9	5.26	112.41	108.20
35	BB	1841	U	C6-N1-C2	-5.26	117.84	121.00
35	BB	1858	A	N7-C8-N9	-5.26	111.17	113.80
35	BB	2343	U	C4'-C3'-C2'	5.26	107.86	102.60
35	BB	2602	A	C8-N9-C1'	5.26	137.17	127.70
48	BO	79	ALA	N-CA-CB	5.26	117.47	110.10
1	AA	51	A	C2'-C3'-O3'	5.26	122.12	113.70
1	AA	119	A	C3'-C2'-C1'	-5.26	97.29	101.50
1	AA	850	U	C3'-C2'-C1'	5.26	105.71	101.50
7	AG	118	ARG	C-N-CA	5.26	134.86	121.70
32	B7	39	ARG	NE-CZ-NH1	-5.26	117.67	120.30
35	BB	296	U	N3-C4-C5	-5.26	111.44	114.60
35	BB	443	A	C6-C5-N7	-5.26	128.62	132.30
35	BB	464	U	P-O5'-C5'	-5.26	112.48	120.90
35	BB	661	A	N9-C4-C5	5.26	107.91	105.80
35	BB	1833	C	C3'-C2'-C1'	5.26	105.71	101.50
35	BB	2165	C	C5-C4-N4	-5.26	116.52	120.20
35	BB	2345	G	P-O3'-C3'	5.26	126.02	119.70
35	BB	2392	A	C4-C5-C6	5.26	119.63	117.00
35	BB	2544	G	N7-C8-N9	5.26	115.73	113.10
52	BS	81	SER	N-CA-CB	5.26	118.39	110.50
56	BY	10	ARG	N-CA-C	-5.26	96.79	111.00
1	AA	107	G	C5-C6-O6	5.26	131.76	128.60
1	AA	367	U	O4'-C1'-N1	5.26	112.41	108.20
1	AA	692	U	O4'-C1'-N1	5.26	112.41	108.20
1	AA	889	A	N9-C4-C5	5.26	107.90	105.80
1	AA	1044	A	C2-N3-C4	-5.26	107.97	110.60
1	AA	1222	G	P-O3'-C3'	-5.26	113.39	119.70
7	AG	9	ARG	NE-CZ-NH2	-5.26	117.67	120.30
34	BA	53	A	N3-C4-C5	-5.26	123.12	126.80
35	BB	350	G	P-O3'-C3'	5.26	126.01	119.70
35	BB	536	G	C1'-O4'-C4'	5.26	114.11	109.90
35	BB	572	A	C2-N3-C4	5.26	113.23	110.60
35	BB	770	G	C4'-C3'-C2'	-5.26	97.34	102.60
35	BB	784	G	C5-N7-C8	5.26	106.93	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1043	C	C6-N1-C2	5.26	122.40	120.30
35	BB	1112	G	C6-C5-N7	-5.26	127.24	130.40
35	BB	1429	G	OP1-P-OP2	-5.26	111.71	119.60
35	BB	1743	G	C2-N3-C4	-5.26	109.27	111.90
35	BB	1792	G	C8-N9-C4	5.26	108.50	106.40
35	BB	2501	C	N3-C4-N4	5.26	121.68	118.00
35	BB	2792	A	N7-C8-N9	5.26	116.43	113.80
1	AA	300	A	N1-C2-N3	5.26	131.93	129.30
34	BA	92	C	O4'-C4'-C3'	-5.26	98.74	104.00
35	BB	111	A	N9-C4-C5	5.26	107.90	105.80
35	BB	2082	A	P-O3'-C3'	-5.26	113.39	119.70
35	BB	2411	A	C5-C6-N1	-5.26	115.07	117.70
48	BO	24	THR	N-CA-C	-5.26	96.80	111.00
1	AA	38	G	C2-N3-C4	-5.26	109.27	111.90
1	AA	95	C	N3-C4-N4	5.26	121.68	118.00
1	AA	182	A	C1'-O4'-C4'	5.26	114.11	109.90
1	AA	649	A	O5'-C5'-C4'	-5.26	101.71	111.70
1	AA	1195	C	C4-C5-C6	-5.26	114.77	117.40
1	AA	1285	A	C5'-C4'-C3'	-5.26	107.59	116.00
25	B0	77	TYR	CZ-CE2-CD2	5.26	124.53	119.80
34	BA	24	G	C8-N9-C1'	5.26	133.83	127.00
35	BB	154	U	P-O3'-C3'	-5.26	113.39	119.70
35	BB	675	A	C3'-C2'-C1'	5.26	105.70	101.50
35	BB	810	U	P-O3'-C3'	5.26	126.01	119.70
35	BB	943	A	N7-C8-N9	5.26	116.43	113.80
35	BB	1062	G	N3-C4-C5	-5.26	125.97	128.60
35	BB	1134	A	C5-C6-N6	-5.26	119.50	123.70
35	BB	1618	A	C1'-O4'-C4'	-5.26	105.69	109.90
35	BB	1905	C	N3-C4-C5	-5.26	119.80	121.90
35	BB	1925	C	N1-C2-O2	-5.26	115.75	118.90
35	BB	2150	C	OP2-P-O3'	5.26	116.76	105.20
35	BB	2205	A	P-O3'-C3'	5.26	126.01	119.70
35	BB	2305	U	C5-C6-N1	5.26	125.33	122.70
35	BB	2541	A	C5-C6-N1	-5.26	115.07	117.70
35	BB	2659	G	C4-C5-C6	5.26	121.95	118.80
52	BS	94	ASP	CB-CG-OD2	-5.26	113.57	118.30
1	AA	450	G	C8-N9-C4	-5.25	104.30	106.40
1	AA	993	G	N3-C4-N9	5.25	129.15	126.00
35	BB	223	A	C1'-O4'-C4'	5.25	114.10	109.90
35	BB	635	C	C5-C4-N4	-5.25	116.52	120.20
35	BB	1160	G	N3-C2-N2	5.25	123.58	119.90
35	BB	1987	A	C4-C5-C6	5.25	119.63	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2822	G	O4'-C1'-N9	5.25	112.40	108.20
41	BH	123	ARG	NE-CZ-NH2	-5.25	117.67	120.30
45	BL	116	VAL	CB-CA-C	5.25	121.39	111.40
1	AA	94	G	C2-N3-C4	-5.25	109.27	111.90
1	AA	147	G	C3'-C2'-C1'	5.25	105.70	101.50
1	AA	453	G	N7-C8-N9	-5.25	110.47	113.10
1	AA	468	A	O4'-C1'-N9	5.25	112.40	108.20
1	AA	560	A	C5'-C4'-C3'	-5.25	107.59	116.00
1	AA	763	G	N9-C4-C5	5.25	107.50	105.40
1	AA	1034	G	N1-C2-N2	5.25	120.93	116.20
1	AA	1154	G	N9-C4-C5	5.25	107.50	105.40
1	AA	1183	U	O4'-C1'-N1	5.25	112.40	108.20
1	AA	1275	A	C5-N7-C8	5.25	106.53	103.90
35	BB	887	U	O4'-C4'-C3'	-5.25	98.75	104.00
35	BB	1361	G	N3-C4-N9	5.25	129.15	126.00
35	BB	1681	G	C5'-C4'-C3'	-5.25	107.59	116.00
35	BB	2223	G	C5-C6-O6	-5.25	125.45	128.60
35	BB	2286	G	C4-C5-C6	5.25	121.95	118.80
35	BB	2525	G	C8-N9-C1'	5.25	133.83	127.00
35	BB	2647	U	C4-C5-C6	5.25	122.85	119.70
35	BB	2734	A	O4'-C1'-N9	5.25	112.40	108.20
35	BB	2816	G	C8-N9-C4	-5.25	104.30	106.40
43	BJ	134	ALA	CB-CA-C	-5.25	102.22	110.10
1	AA	18	C	N3-C2-O2	5.25	125.58	121.90
1	AA	56	U	N1-C2-N3	-5.25	111.75	114.90
1	AA	148	G	C5-N7-C8	-5.25	101.67	104.30
1	AA	155	A	C5-C6-N6	-5.25	119.50	123.70
1	AA	177	G	N3-C4-C5	-5.25	125.97	128.60
1	AA	215	C	C2-N3-C4	-5.25	117.27	119.90
1	AA	836	G	N3-C2-N2	5.25	123.58	119.90
1	AA	860	A	C3'-C2'-C1'	-5.25	97.30	101.50
1	AA	1056	U	C6-N1-C2	5.25	124.15	121.00
1	AA	1240	U	C3'-C2'-C1'	5.25	105.70	101.50
1	AA	1522	U	C1'-O4'-C4'	-5.25	105.70	109.90
28	B3	3	GLN	N-CA-CB	5.25	120.05	110.60
35	BB	558	U	O4'-C1'-C2'	-5.25	100.55	105.80
35	BB	1060	U	C2-N1-C1'	5.25	124.00	117.70
35	BB	1098	A	C6-C5-N7	-5.25	128.62	132.30
35	BB	1398	C	OP1-P-OP2	-5.25	111.72	119.60
35	BB	1621	U	OP1-P-O3'	5.25	116.75	105.20
35	BB	1799	G	N3-C2-N2	5.25	123.58	119.90
35	BB	2385	C	C3'-C2'-C1'	5.25	105.70	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2397	G	P-O3'-C3'	-5.25	113.40	119.70
35	BB	2461	A	C6-C5-N7	-5.25	128.62	132.30
38	BE	106	LYS	N-CA-C	-5.25	96.82	111.00
1	AA	380	G	C1'-O4'-C4'	-5.25	105.70	109.90
1	AA	632	U	C6-N1-C2	-5.25	117.85	121.00
1	AA	935	A	N9-C4-C5	5.25	107.90	105.80
1	AA	1444	U	N1-C2-O2	5.25	126.47	122.80
1	AA	1504	G	C4-C5-N7	5.25	112.90	110.80
35	BB	1665	A	N3-C4-N9	5.25	131.60	127.40
35	BB	1911	U	N3-C2-O2	5.25	125.88	122.20
35	BB	2382	G	O4'-C1'-N9	5.25	112.40	108.20
45	BL	33	ARG	NE-CZ-NH1	-5.25	117.67	120.30
45	BL	127	VAL	CG1-CB-CG2	5.25	119.30	110.90
1	AA	1155	A	C5-C6-N1	-5.25	115.08	117.70
34	BA	75	G	N1-C6-O6	5.25	123.05	119.90
35	BB	649	G	N1-C2-N3	-5.25	120.75	123.90
35	BB	726	G	P-O3'-C3'	5.25	126.00	119.70
35	BB	769	U	OP1-P-OP2	-5.25	111.73	119.60
35	BB	979	A	N9-C1'-C2'	-5.25	106.23	112.00
35	BB	1001	A	C5-C6-N6	-5.25	119.50	123.70
35	BB	1086	A	C5-N7-C8	-5.25	101.28	103.90
1	AA	486	U	N1-C2-N3	5.25	118.05	114.90
1	AA	611	C	C6-N1-C2	-5.25	118.20	120.30
1	AA	763	G	C6-N1-C2	-5.25	121.95	125.10
1	AA	785	G	O4'-C1'-N9	5.25	112.40	108.20
1	AA	1335	U	C6-N1-C1'	-5.25	113.85	121.20
3	AC	38	VAL	CG1-CB-CG2	-5.25	102.50	110.90
34	BA	107	G	N1-C6-O6	5.25	123.05	119.90
35	BB	186	G	C4-C5-C6	5.25	121.95	118.80
35	BB	303	G	N7-C8-N9	-5.25	110.48	113.10
35	BB	561	G	C5-C6-N1	-5.25	108.88	111.50
35	BB	584	C	N3-C4-C5	-5.25	119.80	121.90
35	BB	633	A	N9-C4-C5	-5.25	103.70	105.80
35	BB	654	A	N3-C4-C5	-5.25	123.13	126.80
35	BB	1063	G	C5-C6-O6	-5.25	125.45	128.60
35	BB	1337	G	O4'-C1'-N9	5.25	112.40	108.20
35	BB	1373	A	C4-C5-C6	5.25	119.62	117.00
35	BB	2243	U	N1-C2-O2	-5.25	119.13	122.80
38	BE	21	ARG	NE-CZ-NH2	-5.25	117.68	120.30
54	BU	70	ALA	N-CA-CB	5.25	117.44	110.10
1	AA	123	U	N3-C4-C5	-5.25	111.45	114.60
1	AA	584	G	C6-N1-C2	5.25	128.25	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	977	A	OP2-P-O3'	5.25	116.74	105.20
1	AA	1133	G	P-O3'-C3'	5.25	125.99	119.70
1	AA	1249	C	C6-N1-C1'	-5.25	114.51	120.80
35	BB	1068	G	N1-C2-N3	-5.25	120.75	123.90
35	BB	1915	U	C1'-O4'-C4'	-5.25	105.70	109.90
35	BB	1998	A	N9-C4-C5	5.25	107.90	105.80
35	BB	2734	A	C5'-C4'-O4'	5.25	115.39	109.10
1	AA	579	A	N7-C8-N9	5.24	116.42	113.80
1	AA	1012	A	P-O3'-C3'	-5.24	113.41	119.70
1	AA	1280	A	C5-C6-N1	-5.24	115.08	117.70
17	AQ	49	ASN	N-CA-C	-5.24	96.84	111.00
22	AV	17	C	N3-C4-C5	-5.24	119.80	121.90
35	BB	171	U	O4'-C1'-N1	5.24	112.39	108.20
35	BB	321	U	C6-N1-C2	-5.24	117.85	121.00
35	BB	905	A	C5-C6-N6	-5.24	119.50	123.70
35	BB	1958	C	O4'-C1'-N1	5.24	112.39	108.20
35	BB	2306	C	C4-C5-C6	-5.24	114.78	117.40
35	BB	2662	A	C5-N7-C8	5.24	106.52	103.90
35	BB	2903	U	C2-N3-C4	-5.24	123.85	127.00
38	BE	101	TYR	CZ-CE2-CD2	5.24	124.52	119.80
54	BU	16	LYS	N-CA-CB	5.24	120.04	110.60
1	AA	34	C	C2-N3-C4	5.24	122.52	119.90
1	AA	346	G	N3-C2-N2	5.24	123.57	119.90
15	AO	68	TYR	CD1-CG-CD2	5.24	123.67	117.90
34	BA	116	G	C6-C5-N7	-5.24	127.25	130.40
35	BB	772	C	N1-C2-N3	-5.24	115.53	119.20
35	BB	1064	C	C5'-C4'-O4'	5.24	115.39	109.10
35	BB	1693	U	C4-C5-C6	5.24	122.84	119.70
35	BB	1761	C	P-O3'-C3'	5.24	125.99	119.70
35	BB	2311	A	C5-C6-N1	-5.24	115.08	117.70
35	BB	2765	A	OP1-P-OP2	-5.24	111.74	119.60
1	AA	209	U	C3'-C2'-C1'	-5.24	97.31	101.50
1	AA	812	G	OP2-P-O3'	5.24	116.73	105.20
1	AA	1501	C	O4'-C1'-N1	5.24	112.39	108.20
6	AF	44	ARG	NE-CZ-NH2	-5.24	117.68	120.30
21	AU	36	PHE	CB-CA-C	-5.24	99.92	110.40
35	BB	588	U	N1-C2-N3	-5.24	111.76	114.90
35	BB	645	C	C4'-C3'-C2'	-5.24	97.36	102.60
35	BB	914	G	O4'-C1'-N9	5.24	112.39	108.20
35	BB	2027	G	C5-C6-N1	-5.24	108.88	111.50
35	BB	2055	C	C6-N1-C2	-5.24	118.20	120.30
35	BB	2367	G	C6-C5-N7	-5.24	127.25	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2513	A	C5'-C4'-C3'	5.24	124.38	116.00
35	BB	2569	G	N1-C2-N3	-5.24	120.76	123.90
35	BB	2609	U	P-O5'-C5'	-5.24	112.52	120.90
35	BB	2625	G	C8-N9-C4	-5.24	104.30	106.40
35	BB	2791	G	N1-C2-N2	-5.24	111.48	116.20
1	AA	270	A	C5-C6-N6	-5.24	119.51	123.70
1	AA	321	A	N3-C4-C5	-5.24	123.13	126.80
1	AA	327	A	C2-N3-C4	5.24	113.22	110.60
1	AA	529	G	C4-C5-C6	-5.24	115.66	118.80
1	AA	824	G	C5-C6-O6	-5.24	125.46	128.60
1	AA	912	C	P-O3'-C3'	5.24	125.98	119.70
1	AA	1150	A	N3-C4-C5	-5.24	123.13	126.80
1	AA	1177	G	C3'-C2'-C1'	5.24	105.69	101.50
1	AA	1317	C	C5-C6-N1	5.24	123.62	121.00
1	AA	1398	A	N9-C4-C5	5.24	107.89	105.80
1	AA	1497	G	C6-C5-N7	-5.24	127.26	130.40
35	BB	120	U	C6-N1-C2	-5.24	117.86	121.00
35	BB	239	C	C2-N3-C4	5.24	122.52	119.90
35	BB	448	U	C5-C6-N1	5.24	125.32	122.70
35	BB	469	G	C4-C5-C6	5.24	121.94	118.80
35	BB	812	C	P-O3'-C3'	-5.24	113.41	119.70
35	BB	1111	A	C3'-C2'-C1'	-5.24	97.31	101.50
35	BB	1197	G	C8-N9-C4	5.24	108.50	106.40
35	BB	1454	C	C6-N1-C1'	-5.24	114.51	120.80
35	BB	1466	U	C6-N1-C2	-5.24	117.86	121.00
35	BB	1766	G	OP1-P-O3'	5.24	116.72	105.20
35	BB	1987	A	C4'-C3'-C2'	-5.24	97.36	102.60
35	BB	2653	U	C6-N1-C2	5.24	124.14	121.00
35	BB	2713	U	OP2-P-O3'	5.24	116.72	105.20
43	BJ	29	ALA	N-CA-CB	5.24	117.44	110.10
1	AA	565	U	C5-C6-N1	5.24	125.32	122.70
1	AA	912	C	C2-N1-C1'	5.24	124.56	118.80
1	AA	1080	A	N3-C4-N9	5.24	131.59	127.40
35	BB	667	U	C2-N3-C4	-5.24	123.86	127.00
35	BB	1600	C	N3-C4-N4	5.24	121.67	118.00
35	BB	1619	G	C8-N9-C4	-5.24	104.31	106.40
35	BB	2404	U	C4'-C3'-C2'	5.24	107.84	102.60
35	BB	2535	G	N1-C2-N3	-5.24	120.76	123.90
1	AA	63	C	N1-C2-O2	-5.24	115.76	118.90
1	AA	163	C	C5-C4-N4	-5.24	116.54	120.20
1	AA	903	G	O4'-C1'-C2'	5.24	112.31	107.60
1	AA	1226	C	C3'-C2'-C1'	-5.24	97.31	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AV	56	C	N3-C4-C5	-5.24	119.81	121.90
34	BA	81	G	C4-C5-N7	5.24	112.89	110.80
35	BB	477	A	P-O5'-C5'	-5.24	112.52	120.90
35	BB	662	G	O5'-P-OP2	-5.24	100.99	105.70
35	BB	866	A	C4-C5-C6	5.24	119.62	117.00
35	BB	956	G	OP1-P-OP2	-5.24	111.75	119.60
35	BB	1124	G	OP1-P-OP2	-5.24	111.75	119.60
35	BB	1239	G	N1-C2-N3	-5.24	120.76	123.90
35	BB	1478	G	P-O3'-C3'	5.24	125.98	119.70
35	BB	1478	G	C5-N7-C8	5.24	106.92	104.30
35	BB	2487	G	N7-C8-N9	-5.24	110.48	113.10
35	BB	2532	G	C5-C6-N1	-5.24	108.88	111.50
1	AA	5	U	C3'-C2'-C1'	-5.23	97.31	101.50
1	AA	671	G	N7-C8-N9	5.23	115.72	113.10
1	AA	778	G	C2-N3-C4	5.23	114.52	111.90
1	AA	809	G	N3-C2-N2	-5.23	116.24	119.90
1	AA	1480	A	C4'-C3'-C2'	-5.23	97.37	102.60
35	BB	434	U	C5'-C4'-O4'	-5.23	102.82	109.10
35	BB	878	A	C5'-C4'-C3'	5.23	124.38	116.00
35	BB	942	G	N3-C4-C5	-5.23	125.98	128.60
35	BB	2461	A	N1-C2-N3	5.23	131.92	129.30
1	AA	35	G	N3-C4-C5	5.23	131.22	128.60
1	AA	203	G	O4'-C4'-C3'	-5.23	98.77	104.00
1	AA	239	U	N3-C4-C5	-5.23	111.46	114.60
1	AA	824	G	N1-C2-N2	5.23	120.91	116.20
1	AA	918	A	N3-C4-C5	-5.23	123.14	126.80
1	AA	1063	C	N3-C4-C5	-5.23	119.81	121.90
1	AA	1360	A	N3-C4-N9	5.23	131.59	127.40
1	AA	1532	U	N1-C2-O2	-5.23	119.14	122.80
35	BB	68	G	N7-C8-N9	-5.23	110.48	113.10
35	BB	70	G	C5-C6-N1	-5.23	108.88	111.50
35	BB	164	C	N3-C4-N4	5.23	121.66	118.00
35	BB	237	C	C5-C4-N4	-5.23	116.54	120.20
35	BB	840	C	C6-N1-C1'	-5.23	114.52	120.80
35	BB	1723	G	N1-C2-N2	-5.23	111.49	116.20
35	BB	1846	G	C6-C5-N7	-5.23	127.26	130.40
35	BB	1978	A	O4'-C1'-N9	5.23	112.39	108.20
35	BB	2037	A	C4'-C3'-C2'	-5.23	97.37	102.60
35	BB	2289	G	C6-C5-N7	-5.23	127.26	130.40
35	BB	2322	A	C3'-C2'-C1'	5.23	105.69	101.50
35	BB	2902	C	C4-C5-C6	5.23	120.02	117.40
46	BM	9	PHE	CB-CG-CD2	5.23	124.46	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	159	G	P-O5'-C5'	-5.23	112.53	120.90
1	AA	192	A	O4'-C1'-N9	5.23	112.38	108.20
1	AA	531	U	N3-C4-O4	5.23	123.06	119.40
1	AA	755	G	C5-C6-O6	-5.23	125.46	128.60
1	AA	998	C	P-O3'-C3'	-5.23	113.42	119.70
1	AA	1165	U	O4'-C1'-N1	5.23	112.38	108.20
1	AA	1476	A	P-O5'-C5'	5.23	129.27	120.90
28	B3	12	ARG	NE-CZ-NH1	5.23	122.92	120.30
34	BA	73	A	N1-C2-N3	-5.23	126.68	129.30
35	BB	130	C	O4'-C1'-N1	5.23	112.38	108.20
35	BB	1026	G	C5-C6-O6	-5.23	125.46	128.60
35	BB	1067	A	C6-N1-C2	5.23	121.74	118.60
35	BB	1521	G	C8-N9-C4	-5.23	104.31	106.40
35	BB	1848	A	N3-C4-C5	-5.23	123.14	126.80
35	BB	1855	U	N3-C4-C5	-5.23	111.46	114.60
35	BB	2077	A	C4-C5-N7	-5.23	108.08	110.70
35	BB	2305	U	N3-C2-O2	-5.23	118.54	122.20
35	BB	2327	A	C4-N9-C1'	5.23	135.72	126.30
49	BP	15	ASP	CB-CG-OD2	-5.23	113.59	118.30
1	AA	462	G	C5-N7-C8	5.23	106.92	104.30
24	AZ	5	ALA	O-C-N	-5.23	114.33	122.70
35	BB	34	U	C5'-C4'-O4'	5.23	115.38	109.10
35	BB	1496	A	C5'-C4'-O4'	5.23	115.37	109.10
35	BB	1539	U	N3-C4-C5	-5.23	111.46	114.60
35	BB	1718	G	C1'-O4'-C4'	5.23	114.08	109.90
46	BM	54	THR	N-CA-CB	5.23	120.23	110.30
1	AA	296	U	N1-C2-N3	5.23	118.04	114.90
1	AA	754	C	C3'-C2'-C1'	5.23	105.68	101.50
1	AA	1215	G	N1-C2-N2	5.23	120.91	116.20
12	AL	49	ARG	NE-CZ-NH1	5.23	122.91	120.30
35	BB	34	U	N3-C4-C5	-5.23	111.46	114.60
35	BB	155	A	C6-C5-N7	-5.23	128.64	132.30
35	BB	417	C	N1-C2-O2	5.23	122.04	118.90
35	BB	495	G	C8-N9-C4	-5.23	104.31	106.40
35	BB	794	A	P-O5'-C5'	-5.23	112.54	120.90
35	BB	937	C	C1'-O4'-C4'	-5.23	105.72	109.90
35	BB	966	G	N1-C6-O6	5.23	123.04	119.90
35	BB	983	A	P-O3'-C3'	5.23	125.97	119.70
35	BB	1104	C	C5-C4-N4	-5.23	116.54	120.20
35	BB	1252	G	N3-C4-C5	-5.23	125.99	128.60
35	BB	1337	G	C3'-C2'-C1'	5.23	105.68	101.50
35	BB	1529	G	N3-C4-N9	-5.23	122.86	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1627	G	C2-N3-C4	5.23	114.51	111.90
35	BB	2371	G	C5-C6-N1	-5.23	108.89	111.50
35	BB	2646	C	C1'-O4'-C4'	-5.23	105.72	109.90
35	BB	2844	G	C2-N3-C4	-5.23	109.29	111.90
47	BN	99	LYS	N-CA-CB	5.23	120.01	110.60
1	AA	481	G	O4'-C1'-N9	5.23	112.38	108.20
1	AA	1533	C	P-O3'-C3'	5.23	125.97	119.70
22	AV	9	A	O4'-C1'-N9	5.23	112.38	108.20
35	BB	528	A	C5-C6-N6	-5.23	119.52	123.70
35	BB	725	G	C5'-C4'-C3'	5.23	124.36	116.00
35	BB	942	G	N9-C4-C5	5.23	107.49	105.40
35	BB	1025	G	C5-C6-O6	5.23	131.74	128.60
35	BB	1497	U	C4-C5-C6	5.23	122.84	119.70
35	BB	2634	A	O4'-C4'-C3'	-5.23	98.77	104.00
35	BB	2642	G	P-O3'-C3'	-5.23	113.43	119.70
35	BB	2803	G	C5-C6-N1	-5.23	108.89	111.50
45	BL	106	GLU	N-CA-CB	5.23	120.01	110.60
53	BT	66	LYS	O-C-N	-5.23	114.34	122.70
1	AA	122	G	C5-C6-N1	-5.22	108.89	111.50
1	AA	190	A	C8-N9-C4	-5.22	103.71	105.80
1	AA	332	G	N3-C4-N9	5.22	129.13	126.00
1	AA	597	G	N1-C6-O6	5.22	123.03	119.90
1	AA	1073	U	O4'-C1'-N1	5.22	112.38	108.20
1	AA	1344	C	C5-C4-N4	5.22	123.86	120.20
3	AC	146	LYS	N-CA-C	-5.22	96.90	111.00
10	AJ	65	TYR	CB-CG-CD1	5.22	124.14	121.00
35	BB	25	U	N1-C2-N3	5.22	118.03	114.90
35	BB	265	A	C5-C6-N1	-5.22	115.09	117.70
35	BB	419	U	N3-C4-O4	5.22	123.06	119.40
35	BB	662	G	C6-N1-C2	5.22	128.23	125.10
35	BB	669	G	N3-C2-N2	5.22	123.56	119.90
35	BB	814	C	P-O3'-C3'	-5.22	113.43	119.70
35	BB	2303	G	O5'-C5'-C4'	-5.22	101.77	111.70
35	BB	2322	A	C5-N7-C8	5.22	106.51	103.90
35	BB	2383	G	C4-C5-C6	5.22	121.94	118.80
35	BB	2434	A	C3'-C2'-C1'	5.22	105.68	101.50
35	BB	2696	U	C4'-C3'-C2'	-5.22	97.38	102.60
35	BB	2840	C	C2-N1-C1'	5.22	124.55	118.80
38	BE	35	TYR	CZ-CE2-CD2	-5.22	115.10	119.80
47	BN	67	PHE	CB-CG-CD2	-5.22	117.14	120.80
1	AA	100	G	N1-C2-N3	-5.22	120.77	123.90
1	AA	1182	G	N3-C2-N2	5.22	123.56	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	738	G	N9-C4-C5	5.22	107.49	105.40
35	BB	874	G	C8-N9-C1'	-5.22	120.21	127.00
35	BB	1017	G	N1-C2-N3	-5.22	120.77	123.90
35	BB	1214	A	N7-C8-N9	-5.22	111.19	113.80
35	BB	1289	C	C6-N1-C2	-5.22	118.21	120.30
35	BB	1523	U	N1-C2-O2	5.22	126.46	122.80
35	BB	1834	U	N3-C2-O2	5.22	125.86	122.20
35	BB	1846	G	C2-N3-C4	5.22	114.51	111.90
35	BB	2204	G	C6-N1-C2	-5.22	121.97	125.10
35	BB	2416	C	O4'-C1'-C2'	5.22	112.30	107.60
38	BE	164	LEU	N-CA-CB	5.22	120.84	110.40
51	BR	77	PHE	CG-CD2-CE2	-5.22	115.06	120.80
1	AA	1213	A	P-O3'-C3'	5.22	125.97	119.70
35	BB	1168	G	C4-N9-C1'	-5.22	119.71	126.50
35	BB	1578	U	O4'-C1'-C2'	-5.22	100.58	105.80
1	AA	141	G	N3-C4-N9	5.22	129.13	126.00
1	AA	745	G	C6-C5-N7	-5.22	127.27	130.40
1	AA	778	G	P-O3'-C3'	5.22	125.96	119.70
1	AA	797	C	C2-N3-C4	5.22	122.51	119.90
23	AX	12	A	N1-C6-N6	-5.22	115.47	118.60
35	BB	47	C	P-O5'-C5'	5.22	129.25	120.90
35	BB	190	A	C8-N9-C4	-5.22	103.71	105.80
35	BB	517	C	C5-C6-N1	-5.22	118.39	121.00
35	BB	1666	G	C8-N9-C1'	5.22	133.79	127.00
35	BB	1736	U	P-O5'-C5'	5.22	129.25	120.90
35	BB	2102	G	C5-C6-N1	-5.22	108.89	111.50
35	BB	2276	G	C1'-O4'-C4'	-5.22	105.72	109.90
35	BB	2663	G	C8-N9-C4	-5.22	104.31	106.40
1	AA	120	A	C8-N9-C4	-5.22	103.71	105.80
1	AA	890	G	C2-N3-C4	5.22	114.51	111.90
35	BB	31	C	O4'-C1'-N1	5.22	112.37	108.20
35	BB	282	A	C4-C5-C6	5.22	119.61	117.00
35	BB	745	G	C8-N9-C4	-5.22	104.31	106.40
35	BB	761	A	C8-N9-C4	-5.22	103.71	105.80
35	BB	1580	A	N9-C1'-C2'	-5.22	106.26	112.00
35	BB	2764	A	OP2-P-O3'	5.22	116.68	105.20
1	AA	269	C	C6-N1-C2	5.22	122.39	120.30
1	AA	291	U	N1-C2-N3	-5.22	111.77	114.90
1	AA	505	G	N7-C8-N9	5.22	115.71	113.10
1	AA	628	G	C5-C6-N1	-5.22	108.89	111.50
1	AA	972	C	OP2-P-O3'	5.22	116.68	105.20
22	AV	10	G	O4'-C1'-N9	5.22	112.37	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	187	G	N3-C2-N2	5.22	123.55	119.90
35	BB	851	C	N3-C4-C5	-5.22	119.81	121.90
35	BB	1087	G	O4'-C1'-N9	5.22	112.37	108.20
35	BB	1541	C	C5-C6-N1	5.22	123.61	121.00
35	BB	1998	A	P-O5'-C5'	5.22	129.25	120.90
35	BB	2337	G	C4-N9-C1'	5.22	133.28	126.50
35	BB	2536	G	C5-N7-C8	-5.22	101.69	104.30
35	BB	2641	G	P-O3'-C3'	-5.22	113.44	119.70
35	BB	2748	A	C4-N9-C1'	-5.22	116.91	126.30
35	BB	2803	G	C6-C5-N7	-5.22	127.27	130.40
1	AA	192	A	N9-C4-C5	-5.21	103.71	105.80
1	AA	371	A	N9-C4-C5	5.21	107.89	105.80
1	AA	1398	A	C8-N9-C4	-5.21	103.71	105.80
1	AA	1487	G	C5-N7-C8	5.21	106.91	104.30
34	BA	24	G	N7-C8-N9	5.21	115.71	113.10
35	BB	137	U	C4-C5-C6	5.21	122.83	119.70
35	BB	320	A	C6-N1-C2	5.21	121.73	118.60
35	BB	715	A	C4'-C3'-C2'	-5.21	97.39	102.60
35	BB	836	G	C5-C6-O6	-5.21	125.47	128.60
35	BB	1128	G	N7-C8-N9	-5.21	110.49	113.10
35	BB	1138	G	OP1-P-OP2	-5.21	111.78	119.60
35	BB	1156	A	P-O5'-C5'	-5.21	112.56	120.90
35	BB	1595	C	C6-N1-C1'	5.21	127.06	120.80
35	BB	1667	G	C3'-C2'-C1'	-5.21	97.33	101.50
35	BB	1953	A	P-O5'-C5'	-5.21	112.56	120.90
35	BB	2885	G	C4-C5-N7	5.21	112.89	110.80
56	BY	76	ARG	NE-CZ-NH2	-5.21	117.69	120.30
1	AA	33	A	C6-N1-C2	-5.21	115.47	118.60
1	AA	1127	G	N1-C2-N3	-5.21	120.77	123.90
22	AV	6	C	N3-C4-C5	-5.21	119.81	121.90
34	BA	14	U	N1-C2-N3	5.21	118.03	114.90
35	BB	869	G	O4'-C1'-N9	5.21	112.37	108.20
35	BB	914	G	C5'-C4'-O4'	5.21	115.36	109.10
35	BB	2010	G	C4'-C3'-C2'	-5.21	97.39	102.60
35	BB	2118	U	P-O3'-C3'	-5.21	113.44	119.70
1	AA	80	A	C1'-O4'-C4'	-5.21	105.73	109.90
1	AA	532	A	C4-C5-N7	-5.21	108.09	110.70
1	AA	1387	G	N1-C6-O6	5.21	123.03	119.90
9	AI	106	ASP	CB-CG-OD2	-5.21	113.61	118.30
22	AV	51	A	C5-C6-N1	-5.21	115.09	117.70
22	AV	61	C	N3-C4-C5	-5.21	119.81	121.90
35	BB	582	A	C2-N3-C4	-5.21	108.00	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	950	G	N3-C2-N2	5.21	123.55	119.90
35	BB	1567	G	P-O5'-C5'	-5.21	112.56	120.90
35	BB	2437	G	N3-C4-C5	-5.21	125.99	128.60
35	BB	2801	G	N7-C8-N9	5.21	115.71	113.10
1	AA	1216	A	P-O3'-C3'	-5.21	113.45	119.70
1	AA	1267	C	N1-C2-O2	5.21	122.03	118.90
1	AA	1415	G	C2-N3-C4	5.21	114.50	111.90
1	AA	1462	C	P-O3'-C3'	-5.21	113.45	119.70
10	AJ	50	THR	N-CA-CB	5.21	120.20	110.30
35	BB	945	A	N9-C1'-C2'	-5.21	106.27	112.00
35	BB	1162	G	N3-C4-N9	-5.21	122.87	126.00
35	BB	1296	G	N3-C4-C5	-5.21	126.00	128.60
35	BB	1600	C	N1-C2-N3	-5.21	115.55	119.20
35	BB	2065	C	P-O5'-C5'	5.21	129.24	120.90
38	BE	68	ALA	N-CA-CB	5.21	117.39	110.10
1	AA	24	U	N1-C2-N3	5.21	118.03	114.90
1	AA	120	A	C2-N3-C4	-5.21	108.00	110.60
1	AA	592	G	C8-N9-C4	-5.21	104.32	106.40
1	AA	1254	A	C4-C5-C6	5.21	119.60	117.00
1	AA	1334	G	N3-C2-N2	5.21	123.55	119.90
6	AF	95	ALA	CB-CA-C	-5.21	102.29	110.10
22	AV	7	G	N7-C8-N9	-5.21	110.50	113.10
23	AX	19	A	P-O3'-C3'	-5.21	113.45	119.70
35	BB	128	C	C4'-C3'-C2'	-5.21	97.39	102.60
35	BB	336	C	C1'-O4'-C4'	-5.21	105.73	109.90
35	BB	413	C	C1'-O4'-C4'	5.21	114.07	109.90
35	BB	493	G	N9-C1'-C2'	-5.21	106.27	112.00
35	BB	499	U	C4-C5-C6	5.21	122.83	119.70
35	BB	1224	U	O4'-C1'-N1	5.21	112.37	108.20
35	BB	1227	G	C5-C6-N1	-5.21	108.90	111.50
35	BB	1307	A	N1-C2-N3	5.21	131.91	129.30
35	BB	1578	U	C3'-C2'-C1'	5.21	105.67	101.50
35	BB	1826	G	N3-C4-C5	-5.21	126.00	128.60
35	BB	2279	G	O4'-C1'-N9	5.21	112.37	108.20
1	AA	1456	A	C4-C5-C6	5.21	119.60	117.00
8	AH	40	LYS	CD-CE-NZ	-5.21	99.73	111.70
34	BA	12	C	C4-C5-C6	-5.21	114.80	117.40
35	BB	375	G	N3-C2-N2	5.21	123.55	119.90
35	BB	743	A	C5-C6-N6	-5.21	119.53	123.70
35	BB	800	A	C3'-C2'-C1'	-5.21	97.33	101.50
35	BB	847	U	N3-C4-O4	5.21	123.05	119.40
35	BB	1347	A	N3-C4-C5	-5.21	123.16	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1921	G	C5-N7-C8	5.21	106.90	104.30
35	BB	2518	A	C5-C6-N1	-5.21	115.10	117.70
35	BB	2562	U	O4'-C1'-N1	5.21	112.36	108.20
1	AA	272	C	C5-C6-N1	5.21	123.60	121.00
1	AA	526	C	C5-C6-N1	5.21	123.60	121.00
1	AA	973	G	O5'-P-OP2	-5.21	101.02	105.70
1	AA	1048	G	C2-N3-C4	-5.21	109.30	111.90
1	AA	1373	G	C2-N3-C4	5.21	114.50	111.90
35	BB	126	A	O4'-C1'-N9	5.21	112.36	108.20
35	BB	1136	G	C4-C5-C6	5.21	121.92	118.80
35	BB	1567	G	C3'-C2'-C1'	-5.21	97.34	101.50
1	AA	431	A	C8-N9-C4	-5.20	103.72	105.80
1	AA	1195	C	N3-C2-O2	-5.20	118.26	121.90
1	AA	1277	C	C2-N1-C1'	-5.20	113.08	118.80
1	AA	1303	C	N3-C4-N4	5.20	121.64	118.00
1	AA	1377	A	C5-C6-N6	-5.20	119.54	123.70
1	AA	1447	A	N3-C4-C5	-5.20	123.16	126.80
35	BB	17	G	P-O3'-C3'	-5.20	113.46	119.70
35	BB	30	G	OP1-P-OP2	-5.20	111.79	119.60
35	BB	537	G	C8-N9-C4	-5.20	104.32	106.40
35	BB	565	C	N3-C4-N4	5.20	121.64	118.00
35	BB	639	U	N3-C4-O4	5.20	123.04	119.40
35	BB	864	G	OP1-P-O3'	5.20	116.65	105.20
35	BB	1009	A	C5-C6-N6	-5.20	119.54	123.70
35	BB	1454	C	C5-C4-N4	-5.20	116.56	120.20
35	BB	1569	A	N3-C4-C5	-5.20	123.16	126.80
35	BB	2114	A	C4-C5-N7	-5.20	108.10	110.70
35	BB	2345	G	N3-C2-N2	5.20	123.54	119.90
35	BB	2472	G	C5-N7-C8	-5.20	101.70	104.30
35	BB	2540	C	C2-N1-C1'	-5.20	113.08	118.80
40	BG	69	ALA	N-CA-CB	5.20	117.39	110.10
51	BR	13	ARG	O-C-N	5.20	131.02	122.70
1	AA	172	A	C8-N9-C4	-5.20	103.72	105.80
1	AA	275	G	N1-C2-N3	-5.20	120.78	123.90
1	AA	383	A	N1-C6-N6	5.20	121.72	118.60
1	AA	428	G	N1-C2-N2	-5.20	111.52	116.20
1	AA	1475	G	C4-C5-N7	-5.20	108.72	110.80
35	BB	119	A	C5'-C4'-O4'	5.20	115.34	109.10
35	BB	1025	G	C6-C5-N7	-5.20	127.28	130.40
35	BB	1823	G	OP1-P-OP2	-5.20	111.80	119.60
35	BB	2102	G	N7-C8-N9	-5.20	110.50	113.10
35	BB	2834	G	C2-N3-C4	-5.20	109.30	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	16	A	C5-N7-C8	5.20	106.50	103.90
1	AA	252	U	C5-C6-N1	5.20	125.30	122.70
1	AA	342	C	N1-C2-O2	-5.20	115.78	118.90
1	AA	571	U	C2-N3-C4	-5.20	123.88	127.00
1	AA	1510	C	O5'-C5'-C4'	-5.20	101.82	111.70
5	AE	64	GLU	OE1-CD-OE2	5.20	129.54	123.30
34	BA	110	C	P-O5'-C5'	5.20	129.22	120.90
35	BB	46	G	C6-C5-N7	-5.20	127.28	130.40
35	BB	590	A	OP1-P-OP2	-5.20	111.80	119.60
35	BB	1134	A	C6-C5-N7	-5.20	128.66	132.30
35	BB	1483	G	N9-C4-C5	-5.20	103.32	105.40
35	BB	1715	G	N3-C4-C5	-5.20	126.00	128.60
35	BB	2290	G	P-O3'-C3'	-5.20	113.46	119.70
35	BB	2625	G	C2-N3-C4	5.20	114.50	111.90
35	BB	2814	A	OP2-P-O3'	5.20	116.64	105.20
1	AA	341	C	C2-N1-C1'	5.20	124.52	118.80
1	AA	681	A	P-O3'-C3'	-5.20	113.46	119.70
17	AQ	14	ASP	CB-CG-OD1	-5.20	113.62	118.30
34	BA	25	U	N3-C2-O2	5.20	125.84	122.20
34	BA	59	A	N9-C4-C5	5.20	107.88	105.80
35	BB	35	G	N1-C2-N3	-5.20	120.78	123.90
35	BB	457	A	N7-C8-N9	-5.20	111.20	113.80
35	BB	569	U	N1-C2-O2	-5.20	119.16	122.80
35	BB	718	A	N9-C1'-C2'	-5.20	106.28	112.00
35	BB	914	G	N1-C6-O6	5.20	123.02	119.90
35	BB	949	G	O4'-C1'-N9	5.20	112.36	108.20
35	BB	1867	G	C4-C5-N7	5.20	112.88	110.80
35	BB	1981	A	N3-C4-C5	-5.20	123.16	126.80
35	BB	2046	G	C2-N3-C4	5.20	114.50	111.90
35	BB	2364	C	C2-N1-C1'	5.20	124.52	118.80
35	BB	2502	G	N3-C4-C5	-5.20	126.00	128.60
35	BB	2536	G	C5-C6-N1	-5.20	108.90	111.50
1	AA	726	C	C6-N1-C2	-5.20	118.22	120.30
1	AA	1184	G	C6-N1-C2	5.20	128.22	125.10
1	AA	1409	C	P-O3'-C3'	-5.20	113.46	119.70
34	BA	73	A	O4'-C1'-N9	5.20	112.36	108.20
35	BB	207	A	C5-N7-C8	-5.20	101.30	103.90
35	BB	384	A	C6-N1-C2	5.20	121.72	118.60
35	BB	2282	G	N1-C6-O6	5.20	123.02	119.90
35	BB	2570	G	C4'-C3'-C2'	-5.20	97.40	102.60
35	BB	2632	A	C8-N9-C4	-5.20	103.72	105.80
35	BB	2769	U	N1-C2-O2	-5.20	119.16	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	BU	2	ALA	N-CA-CB	5.20	117.38	110.10
1	AA	85	U	O4'-C1'-N1	5.20	112.36	108.20
1	AA	177	G	N1-C6-O6	5.20	123.02	119.90
1	AA	888	G	C8-N9-C1'	5.20	133.75	127.00
1	AA	1329	A	C5'-C4'-C3'	5.20	124.31	116.00
1	AA	1509	C	N1-C2-O2	-5.20	115.78	118.90
22	AV	24	G	O4'-C1'-N9	5.20	112.36	108.20
30	B5	53	ARG	CG-CD-NE	-5.20	100.89	111.80
34	BA	100	G	N3-C2-N2	5.20	123.54	119.90
35	BB	87	U	C1'-O4'-C4'	5.20	114.06	109.90
35	BB	433	C	N3-C4-C5	-5.20	119.82	121.90
35	BB	558	U	C2-N3-C4	-5.20	123.88	127.00
35	BB	945	A	C4-C5-N7	-5.20	108.10	110.70
35	BB	1423	G	O4'-C1'-N9	5.20	112.36	108.20
35	BB	1615	C	C5-C4-N4	-5.20	116.56	120.20
35	BB	1752	C	C6-N1-C2	-5.20	118.22	120.30
35	BB	1857	G	C5-N7-C8	-5.20	101.70	104.30
35	BB	2141	G	C1'-O4'-C4'	5.20	114.06	109.90
35	BB	2437	G	C4-C5-N7	-5.20	108.72	110.80
35	BB	2512	C	N3-C4-C5	-5.20	119.82	121.90
35	BB	2722	G	C4-C5-C6	5.20	121.92	118.80
41	BH	144	VAL	O-C-N	5.20	131.01	122.70
1	AA	1038	C	C4-C5-C6	-5.19	114.80	117.40
1	AA	1283	U	C5-C4-O4	-5.19	122.78	125.90
35	BB	425	G	C2-N3-C4	5.19	114.50	111.90
35	BB	741	U	C1'-O4'-C4'	5.19	114.06	109.90
35	BB	2409	G	N9-C4-C5	-5.19	103.32	105.40
35	BB	2776	A	C1'-O4'-C4'	-5.19	105.75	109.90
1	AA	55	A	O4'-C1'-C2'	-5.19	100.61	105.80
1	AA	619	U	C2-N3-C4	5.19	130.12	127.00
1	AA	1206	G	N3-C4-C5	5.19	131.20	128.60
1	AA	1276	G	C3'-C2'-C1'	5.19	105.65	101.50
1	AA	1323	G	O4'-C1'-N9	5.19	112.35	108.20
35	BB	285	G	N3-C2-N2	5.19	123.53	119.90
35	BB	413	C	N3-C4-C5	-5.19	119.82	121.90
35	BB	614	A	N9-C4-C5	5.19	107.88	105.80
35	BB	862	G	C6-C5-N7	-5.19	127.28	130.40
35	BB	1128	G	N1-C2-N3	-5.19	120.78	123.90
35	BB	1184	U	C6-N1-C2	5.19	124.11	121.00
35	BB	1340	U	C6-N1-C2	-5.19	117.89	121.00
35	BB	1597	A	C4'-C3'-C2'	-5.19	97.41	102.60
35	BB	1658	C	O5'-C5'-C4'	-5.19	101.83	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1894	C	C4-C5-C6	-5.19	114.80	117.40
35	BB	1937	A	C5-C6-N6	-5.19	119.55	123.70
35	BB	2114	A	C5-C6-N1	-5.19	115.10	117.70
35	BB	2216	G	C6-C5-N7	-5.19	127.28	130.40
35	BB	2219	U	C5-C6-N1	-5.19	120.10	122.70
35	BB	2645	G	O4'-C1'-N9	5.19	112.35	108.20
35	BB	2668	G	C4-C5-N7	-5.19	108.72	110.80
35	BB	2747	G	C5-C6-N1	-5.19	108.90	111.50
35	BB	2788	C	C4'-C3'-C2'	-5.19	97.41	102.60
1	AA	146	G	N7-C8-N9	-5.19	110.50	113.10
1	AA	518	C	C1'-O4'-C4'	5.19	114.05	109.90
1	AA	596	A	N3-C4-C5	-5.19	123.17	126.80
1	AA	631	C	N1-C2-O2	5.19	122.02	118.90
1	AA	633	G	C6-N1-C2	5.19	128.21	125.10
18	AR	56	ARG	NH1-CZ-NH2	-5.19	113.69	119.40
35	BB	1326	U	C4-C5-C6	5.19	122.81	119.70
35	BB	1949	G	N1-C6-O6	5.19	123.02	119.90
35	BB	2031	A	C5'-C4'-O4'	5.19	115.33	109.10
35	BB	2164	C	N1-C2-O2	5.19	122.02	118.90
35	BB	2369	A	O5'-C5'-C4'	-5.19	101.84	111.70
35	BB	2395	C	C5-C4-N4	-5.19	116.57	120.20
35	BB	2507	C	C3'-C2'-C1'	5.19	105.65	101.50
35	BB	2758	A	N7-C8-N9	-5.19	111.20	113.80
36	BC	170	TYR	N-CA-CB	5.19	119.94	110.60
36	BC	200	MET	CA-CB-CG	5.19	122.12	113.30
1	AA	18	C	C5-C4-N4	-5.19	116.57	120.20
1	AA	347	G	C4-C5-C6	5.19	121.91	118.80
1	AA	417	G	N3-C4-N9	5.19	129.11	126.00
1	AA	521	G	C4'-C3'-C2'	-5.19	97.41	102.60
1	AA	1180	A	C1'-O4'-C4'	-5.19	105.75	109.90
1	AA	1238	A	C5-C6-N1	-5.19	115.11	117.70
1	AA	1369	C	N1-C2-O2	5.19	122.01	118.90
1	AA	1489	G	C8-N9-C4	5.19	108.48	106.40
2	AB	217	ALA	N-CA-CB	-5.19	102.84	110.10
12	AL	65	TYR	CD1-CE1-CZ	5.19	124.47	119.80
35	BB	1360	G	C4'-C3'-C2'	-5.19	97.41	102.60
35	BB	1726	C	C5-C4-N4	-5.19	116.57	120.20
35	BB	2003	A	N7-C8-N9	-5.19	111.21	113.80
35	BB	2628	C	N3-C4-N4	5.19	121.63	118.00
1	AA	158	G	C2-N3-C4	5.19	114.49	111.90
1	AA	195	A	N1-C6-N6	5.19	121.71	118.60
1	AA	317	U	O4'-C1'-N1	5.19	112.35	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	325	A	C5'-C4'-C3'	5.19	124.30	116.00
1	AA	493	A	C4-C5-C6	5.19	119.59	117.00
1	AA	1076	U	O5'-C5'-C4'	-5.19	101.84	111.70
1	AA	1148	U	N3-C4-O4	5.19	123.03	119.40
1	AA	1159	U	O4'-C1'-C2'	-5.19	100.61	105.80
1	AA	1216	A	C5-N7-C8	5.19	106.49	103.90
1	AA	1221	G	P-O3'-C3'	-5.19	113.47	119.70
1	AA	1251	A	C4-C5-N7	5.19	113.29	110.70
1	AA	1507	A	C4-C5-C6	5.19	119.59	117.00
35	BB	230	G	N1-C6-O6	5.19	123.01	119.90
35	BB	744	U	C5-C6-N1	5.19	125.29	122.70
35	BB	1681	G	P-O5'-C5'	5.19	129.20	120.90
35	BB	1956	U	P-O3'-C3'	-5.19	113.48	119.70
35	BB	2669	G	C4'-C3'-C2'	-5.19	97.41	102.60
36	BC	161	VAL	CG1-CB-CG2	-5.19	102.60	110.90
1	AA	121	U	C3'-C2'-C1'	5.19	105.65	101.50
1	AA	1486	G	C4-C5-N7	-5.19	108.73	110.80
9	AI	18	VAL	CA-CB-CG1	5.19	118.68	110.90
35	BB	671	C	C6-N1-C2	-5.19	118.23	120.30
35	BB	672	C	C6-N1-C2	5.19	122.37	120.30
35	BB	1085	A	OP2-P-O3'	5.19	116.61	105.20
35	BB	1254	A	C4-C5-C6	5.19	119.59	117.00
35	BB	1475	G	P-O3'-C3'	5.19	125.92	119.70
35	BB	1530	G	N9-C4-C5	-5.19	103.33	105.40
35	BB	2314	A	O4'-C1'-N9	5.19	112.35	108.20
1	AA	124	C	C6-N1-C2	5.18	122.37	120.30
1	AA	608	A	C4-C5-C6	5.18	119.59	117.00
1	AA	1017	U	C5-C4-O4	-5.18	122.79	125.90
1	AA	1082	A	O4'-C1'-N9	5.18	112.35	108.20
1	AA	1288	A	C5-C6-N1	-5.18	115.11	117.70
2	AB	152	ASP	N-CA-CB	5.18	119.93	110.60
34	BA	30	C	C5-C6-N1	5.18	123.59	121.00
35	BB	55	G	O4'-C1'-N9	5.18	112.35	108.20
35	BB	1660	G	N3-C4-N9	5.18	129.11	126.00
35	BB	1896	G	O4'-C1'-C2'	5.18	112.27	107.60
35	BB	2072	C	C2-N3-C4	5.18	122.49	119.90
35	BB	2836	U	C5-C4-O4	-5.18	122.79	125.90
37	BD	86	GLU	N-CA-C	-5.18	97.00	111.00
55	BW	57	TYR	CD1-CG-CD2	5.18	123.60	117.90
1	AA	872	A	N1-C6-N6	5.18	121.71	118.60
1	AA	881	G	C3'-C2'-C1'	5.18	105.65	101.50
1	AA	1034	G	C4-C5-C6	5.18	121.91	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	63	A	O4'-C1'-N9	5.18	112.35	108.20
35	BB	579	G	P-O5'-C5'	-5.18	112.61	120.90
35	BB	773	U	C5'-C4'-C3'	-5.18	107.71	116.00
35	BB	939	G	C4-C5-C6	5.18	121.91	118.80
35	BB	944	C	C4-C5-C6	-5.18	114.81	117.40
35	BB	1042	G	N7-C8-N9	-5.18	110.51	113.10
35	BB	1245	G	N1-C6-O6	5.18	123.01	119.90
35	BB	1888	G	C8-N9-C4	5.18	108.47	106.40
35	BB	1948	G	N3-C2-N2	-5.18	116.27	119.90
1	AA	115	G	P-O5'-C5'	-5.18	112.61	120.90
1	AA	220	G	N1-C2-N2	-5.18	111.54	116.20
1	AA	957	U	C4-C5-C6	-5.18	116.59	119.70
34	BA	100	G	C6-C5-N7	-5.18	127.29	130.40
35	BB	424	G	P-O5'-C5'	5.18	129.19	120.90
35	BB	1548	A	C8-N9-C4	5.18	107.87	105.80
35	BB	1761	C	C4'-C3'-C2'	-5.18	97.42	102.60
35	BB	2446	G	N1-C2-N2	-5.18	111.54	116.20
35	BB	2503	A	O5'-C5'-C4'	-5.18	101.86	111.70
39	BF	137	PHE	CB-CA-C	-5.18	100.04	110.40
1	AA	178	C	C5-C4-N4	5.18	123.83	120.20
1	AA	265	G	N7-C8-N9	-5.18	110.51	113.10
1	AA	283	U	C4-C5-C6	-5.18	116.59	119.70
1	AA	296	U	C6-N1-C2	-5.18	117.89	121.00
1	AA	384	G	C4-C5-N7	5.18	112.87	110.80
1	AA	553	A	C6-C5-N7	-5.18	128.67	132.30
1	AA	1196	A	P-O3'-C3'	-5.18	113.48	119.70
1	AA	1431	A	O4'-C1'-N9	5.18	112.34	108.20
7	AG	118	ARG	NE-CZ-NH2	-5.18	117.71	120.30
20	AT	10	ALA	CB-CA-C	-5.18	102.33	110.10
34	BA	28	C	O4'-C1'-N1	5.18	112.34	108.20
34	BA	98	G	C5-N7-C8	-5.18	101.71	104.30
34	BA	110	C	C5-C6-N1	5.18	123.59	121.00
35	BB	879	G	P-O3'-C3'	-5.18	113.48	119.70
35	BB	1093	G	O4'-C1'-N9	5.18	112.34	108.20
35	BB	1127	A	O4'-C1'-N9	5.18	112.34	108.20
35	BB	1202	G	C4'-C3'-C2'	-5.18	97.42	102.60
35	BB	1267	U	C1'-O4'-C4'	5.18	114.04	109.90
35	BB	1629	U	C4-C5-C6	-5.18	116.59	119.70
35	BB	1896	G	C5-C6-O6	-5.18	125.49	128.60
35	BB	2418	A	N9-C4-C5	5.18	107.87	105.80
1	AA	433	G	C5-C6-O6	-5.18	125.49	128.60
1	AA	1212	U	C6-N1-C1'	-5.18	113.95	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	837	C	C1'-O4'-C4'	5.18	114.04	109.90
35	BB	891	G	P-O3'-C3'	5.18	125.91	119.70
35	BB	1272	A	C5-C6-N1	-5.18	115.11	117.70
35	BB	2616	C	C4'-C3'-C2'	-5.18	97.42	102.60
36	BC	16	VAL	N-CA-C	-5.18	97.02	111.00
36	BC	269	ARG	N-CA-CB	5.18	119.92	110.60
41	BH	86	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	AA	9	G	N7-C8-N9	-5.18	110.51	113.10
1	AA	145	G	C2-N3-C4	5.18	114.49	111.90
1	AA	215	C	N3-C2-O2	-5.18	118.28	121.90
1	AA	257	G	N1-C2-N2	-5.18	111.54	116.20
1	AA	428	G	N7-C8-N9	5.18	115.69	113.10
1	AA	648	A	C1'-O4'-C4'	5.18	114.04	109.90
1	AA	955	U	N3-C4-C5	-5.18	111.49	114.60
1	AA	1447	A	C6-N1-C2	5.18	121.71	118.60
35	BB	216	A	N7-C8-N9	5.18	116.39	113.80
35	BB	343	C	C2-N3-C4	5.18	122.49	119.90
35	BB	359	G	C6-C5-N7	-5.18	127.29	130.40
35	BB	897	C	N1-C2-N3	-5.18	115.58	119.20
35	BB	1742	U	C6-N1-C2	5.18	124.11	121.00
35	BB	1758	U	N3-C4-O4	5.18	123.02	119.40
35	BB	2566	A	C5-C6-N1	-5.18	115.11	117.70
35	BB	2743	U	C2-N1-C1'	5.18	123.91	117.70
48	BO	93	ASP	CB-CG-OD2	5.18	122.96	118.30
1	AA	501	C	P-O3'-C3'	-5.17	113.49	119.70
1	AA	1314	C	C4'-C3'-C2'	-5.17	97.43	102.60
1	AA	1492	A	C4-C5-N7	-5.17	108.11	110.70
35	BB	168	G	C8-N9-C4	-5.17	104.33	106.40
35	BB	658	U	C4-C5-C6	-5.17	116.59	119.70
35	BB	873	C	C6-N1-C2	5.17	122.37	120.30
35	BB	962	G	C3'-C2'-C1'	5.17	105.64	101.50
35	BB	1593	A	C6-C5-N7	5.17	135.92	132.30
35	BB	2540	C	C5-C4-N4	-5.17	116.58	120.20
35	BB	2886	A	C3'-C2'-C1'	-5.17	97.36	101.50
1	AA	645	G	C4'-C3'-C2'	-5.17	97.43	102.60
13	AM	50	GLY	N-CA-C	-5.17	100.17	113.10
35	BB	59	U	N1-C2-N3	-5.17	111.80	114.90
35	BB	141	G	C1'-O4'-C4'	-5.17	105.76	109.90
35	BB	216	A	C6-C5-N7	-5.17	128.68	132.30
35	BB	867	C	N3-C4-C5	-5.17	119.83	121.90
35	BB	944	C	C5'-C4'-C3'	-5.17	107.72	116.00
35	BB	2110	G	C4-C5-C6	-5.17	115.70	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2138	G	O5'-P-OP2	5.17	116.91	110.70
35	BB	2141	G	C6-C5-N7	-5.17	127.30	130.40
35	BB	2216	G	C2-N3-C4	5.17	114.49	111.90
35	BB	2298	A	OP1-P-OP2	-5.17	111.84	119.60
35	BB	2378	A	OP1-P-OP2	-5.17	111.84	119.60
37	BD	121	THR	CA-CB-CG2	-5.17	105.16	112.40
1	AA	37	U	N1-C1'-C2'	-5.17	106.31	112.00
1	AA	147	G	O4'-C1'-N9	5.17	112.34	108.20
1	AA	359	G	N1-C2-N2	5.17	120.85	116.20
1	AA	456	A	N9-C4-C5	5.17	107.87	105.80
1	AA	949	A	C4'-C3'-C2'	-5.17	97.43	102.60
1	AA	1033	G	OP1-P-OP2	-5.17	111.84	119.60
1	AA	1067	A	P-O3'-C3'	5.17	125.91	119.70
1	AA	1271	A	P-O3'-C3'	-5.17	113.50	119.70
1	AA	1295	U	N1-C2-O2	-5.17	119.18	122.80
9	AI	129	ARG	NE-CZ-NH1	5.17	122.89	120.30
22	AV	7	G	C2-N3-C4	5.17	114.49	111.90
35	BB	549	G	C6-N1-C2	5.17	128.20	125.10
35	BB	876	C	N3-C4-C5	-5.17	119.83	121.90
35	BB	958	U	C1'-O4'-C4'	-5.17	105.76	109.90
35	BB	1099	G	OP1-P-OP2	-5.17	111.84	119.60
35	BB	1214	A	C6-N1-C2	5.17	121.70	118.60
35	BB	1304	A	C2-N3-C4	-5.17	108.01	110.60
35	BB	1473	G	C6-N1-C2	-5.17	122.00	125.10
35	BB	1745	A	N7-C8-N9	5.17	116.39	113.80
35	BB	1792	G	C5-N7-C8	5.17	106.89	104.30
35	BB	2574	G	P-O3'-C3'	5.17	125.91	119.70
35	BB	2664	G	C4-C5-N7	5.17	112.87	110.80
46	BM	92	TRP	CD1-CG-CD2	5.17	110.44	106.30
1	AA	206	C	C4-C5-C6	5.17	119.98	117.40
1	AA	1197	A	P-O5'-C5'	5.17	129.17	120.90
11	AK	28	ASN	O-C-N	-5.17	114.43	122.70
35	BB	1444	G	N1-C2-N2	-5.17	111.55	116.20
35	BB	1818	U	N3-C4-O4	5.17	123.02	119.40
35	BB	1846	G	C1'-O4'-C4'	-5.17	105.76	109.90
35	BB	2153	C	N3-C4-N4	5.17	121.62	118.00
1	AA	16	A	C5-C6-N6	-5.17	119.57	123.70
1	AA	90	C	C4-C5-C6	5.17	119.98	117.40
1	AA	380	G	C4'-C3'-C2'	-5.17	97.43	102.60
1	AA	622	A	C8-N9-C4	-5.17	103.73	105.80
1	AA	1202	U	O4'-C1'-N1	5.17	112.33	108.20
1	AA	1348	U	C1'-O4'-C4'	5.17	114.03	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BA	64	G	N3-C4-C5	-5.17	126.02	128.60
35	BB	500	G	N1-C2-N2	-5.17	111.55	116.20
35	BB	668	A	C5-C6-N1	-5.17	115.12	117.70
35	BB	837	C	C6-N1-C1'	-5.17	114.60	120.80
35	BB	1538	G	N1-C2-N3	-5.17	120.80	123.90
35	BB	1578	U	O4'-C1'-N1	5.17	112.33	108.20
35	BB	1840	G	C8-N9-C4	5.17	108.47	106.40
35	BB	2751	G	C8-N9-C1'	-5.17	120.28	127.00
1	AA	146	G	O4'-C1'-C2'	-5.17	100.63	105.80
1	AA	399	G	C6-N1-C2	-5.17	122.00	125.10
1	AA	417	G	N9-C4-C5	-5.17	103.33	105.40
1	AA	456	A	C4-C5-N7	-5.17	108.12	110.70
1	AA	640	A	N9-C4-C5	5.17	107.87	105.80
1	AA	1011	C	C4'-C3'-C2'	5.17	107.77	102.60
1	AA	1338	G	C5-N7-C8	5.17	106.88	104.30
15	AO	38	LEU	N-CA-CB	5.17	120.73	110.40
20	AT	77	ASN	CB-CA-C	-5.17	100.07	110.40
22	AV	38	U	N3-C2-O2	5.17	125.82	122.20
31	B6	26	ASN	C-N-CA	5.17	133.15	122.30
34	BA	16	G	C4-C5-N7	5.17	112.87	110.80
35	BB	7	G	N1-C6-O6	5.17	123.00	119.90
35	BB	294	A	C6-N1-C2	-5.17	115.50	118.60
35	BB	487	C	C3'-C2'-C1'	5.17	105.63	101.50
35	BB	852	U	N1-C2-N3	-5.17	111.80	114.90
35	BB	908	C	OP1-P-OP2	-5.17	111.85	119.60
35	BB	1673	G	OP2-P-O3'	5.17	116.57	105.20
35	BB	1721	G	C6-C5-N7	-5.17	127.30	130.40
35	BB	2003	A	C2-N3-C4	-5.17	108.02	110.60
35	BB	2190	G	C8-N9-C4	5.17	108.47	106.40
35	BB	2378	A	C6-C5-N7	-5.17	128.68	132.30
35	BB	2704	C	O5'-P-OP1	5.17	116.90	110.70
51	BR	42	ALA	CB-CA-C	-5.17	102.35	110.10
1	AA	169	C	O4'-C4'-C3'	-5.17	98.83	104.00
1	AA	629	A	C6-N1-C2	-5.17	115.50	118.60
1	AA	1018	G	P-O3'-C3'	-5.17	113.50	119.70
1	AA	1023	U	C5'-C4'-C3'	5.17	124.26	116.00
1	AA	1527	U	N3-C4-C5	5.17	117.70	114.60
35	BB	89	A	C4-C5-N7	-5.17	108.12	110.70
35	BB	412	A	C4-C5-N7	-5.17	108.12	110.70
35	BB	641	U	OP1-P-OP2	-5.17	111.85	119.60
35	BB	1530	G	N3-C4-N9	5.17	129.10	126.00
35	BB	1909	C	P-O3'-C3'	-5.17	113.50	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	BJ	44	TYR	CZ-CE2-CD2	-5.17	115.15	119.80
44	BK	9	ASN	O-C-N	-5.17	114.44	122.70
1	AA	66	A	C6-C5-N7	-5.16	128.69	132.30
1	AA	131	A	P-O5'-C5'	-5.16	112.64	120.90
1	AA	402	G	N9-C4-C5	5.16	107.47	105.40
1	AA	421	U	C4-C5-C6	5.16	122.80	119.70
1	AA	563	A	C2-N3-C4	5.16	113.18	110.60
1	AA	884	U	C6-N1-C2	5.16	124.10	121.00
1	AA	1302	C	C5-C4-N4	-5.16	116.59	120.20
22	AV	21	A	C5-C6-N1	-5.16	115.12	117.70
22	AV	56	C	N3-C4-N4	5.16	121.61	118.00
35	BB	336	C	P-O5'-C5'	-5.16	112.64	120.90
35	BB	2378	A	O4'-C1'-N9	5.16	112.33	108.20
35	BB	2426	A	N1-C2-N3	5.16	131.88	129.30
35	BB	2797	U	O4'-C4'-C3'	-5.16	98.84	104.00
35	BB	2798	U	N1-C2-O2	-5.16	119.19	122.80
35	BB	2887	A	N1-C6-N6	5.16	121.70	118.60
54	BU	2	ALA	N-CA-C	-5.16	97.06	111.00
1	AA	1073	U	C5-C4-O4	-5.16	122.80	125.90
1	AA	1431	A	O4'-C1'-C2'	5.16	112.25	107.60
34	BA	78	A	C8-N9-C4	5.16	107.86	105.80
35	BB	518	G	N3-C2-N2	5.16	123.51	119.90
35	BB	1026	G	C4'-C3'-C2'	-5.16	97.44	102.60
35	BB	1076	C	C5-C6-N1	-5.16	118.42	121.00
35	BB	1325	U	C2-N1-C1'	5.16	123.89	117.70
35	BB	1416	G	C5'-C4'-O4'	5.16	115.30	109.10
35	BB	2430	A	C5-N7-C8	5.16	106.48	103.90
35	BB	2481	G	C2-N3-C4	5.16	114.48	111.90
1	AA	646	G	P-O3'-C3'	-5.16	113.51	119.70
34	BA	8	C	C2-N1-C1'	5.16	124.48	118.80
34	BA	41	G	C8-N9-C4	-5.16	104.34	106.40
35	BB	181	A	C4-C5-C6	5.16	119.58	117.00
35	BB	263	G	N3-C4-C5	-5.16	126.02	128.60
35	BB	684	G	C5-C6-O6	-5.16	125.50	128.60
35	BB	742	A	C4-C5-C6	5.16	119.58	117.00
35	BB	1978	A	N7-C8-N9	-5.16	111.22	113.80
35	BB	2019	A	C8-N9-C4	5.16	107.86	105.80
35	BB	2059	A	C4-C5-C6	5.16	119.58	117.00
35	BB	2874	C	C6-N1-C2	-5.16	118.23	120.30
1	AA	119	A	C5'-C4'-O4'	5.16	115.29	109.10
1	AA	314	C	N3-C4-N4	5.16	121.61	118.00
1	AA	461	A	P-O3'-C3'	-5.16	113.51	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	711	G	C6-C5-N7	-5.16	127.31	130.40
1	AA	859	G	C2-N3-C4	5.16	114.48	111.90
1	AA	986	U	N3-C2-O2	-5.16	118.59	122.20
34	BA	83	G	C8-N9-C4	-5.16	104.34	106.40
35	BB	274	C	C5-C4-N4	-5.16	116.59	120.20
35	BB	653	U	O4'-C1'-N1	5.16	112.33	108.20
35	BB	1649	G	C5-C6-O6	-5.16	125.50	128.60
35	BB	1801	A	O4'-C1'-N9	5.16	112.33	108.20
35	BB	1935	G	N3-C2-N2	5.16	123.51	119.90
35	BB	2026	U	C6-N1-C2	-5.16	117.91	121.00
35	BB	2524	G	C5'-C4'-O4'	-5.16	102.91	109.10
35	BB	2578	G	P-O3'-C3'	-5.16	113.51	119.70
35	BB	2644	G	N3-C4-C5	-5.16	126.02	128.60
1	AA	224	U	C5-C6-N1	5.16	125.28	122.70
1	AA	255	G	N3-C2-N2	5.16	123.51	119.90
1	AA	573	A	O4'-C1'-N9	5.16	112.33	108.20
1	AA	979	C	C3'-C2'-C1'	-5.16	97.38	101.50
1	AA	1003	G	C5'-C4'-C3'	-5.16	107.75	116.00
1	AA	1064	G	C2-N3-C4	5.16	114.48	111.90
6	AF	24	ARG	NE-CZ-NH1	5.16	122.88	120.30
34	BA	25	U	C6-N1-C1'	5.16	128.42	121.20
34	BA	44	G	C8-N9-C4	-5.16	104.34	106.40
35	BB	206	U	C6-N1-C2	5.16	124.09	121.00
35	BB	503	A	O4'-C1'-N9	5.16	112.33	108.20
35	BB	856	G	N9-C1'-C2'	-5.16	106.33	112.00
35	BB	1051	G	N3-C2-N2	5.16	123.51	119.90
35	BB	1088	A	N3-C4-N9	5.16	131.53	127.40
35	BB	1256	G	OP2-P-O3'	5.16	116.55	105.20
35	BB	2269	G	N3-C2-N2	-5.16	116.29	119.90
35	BB	2734	A	N9-C4-C5	5.16	107.86	105.80
1	AA	63	C	C6-N1-C2	-5.16	118.24	120.30
1	AA	357	G	C8-N9-C4	5.16	108.46	106.40
1	AA	624	C	N3-C4-C5	-5.16	119.84	121.90
1	AA	1387	G	C5-C6-O6	-5.16	125.51	128.60
11	AK	17	ASP	CB-CA-C	5.16	120.71	110.40
35	BB	17	G	C6-C5-N7	-5.16	127.31	130.40
35	BB	52	A	N1-C2-N3	5.16	131.88	129.30
35	BB	175	G	N3-C4-C5	5.16	131.18	128.60
35	BB	239	C	N3-C4-N4	5.16	121.61	118.00
35	BB	1505	A	N7-C8-N9	5.16	116.38	113.80
35	BB	1524	G	C5-C6-N1	-5.16	108.92	111.50
35	BB	1805	A	C5-C6-N1	-5.16	115.12	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2130	U	O4'-C4'-C3'	-5.16	98.84	104.00
35	BB	2346	A	N9-C4-C5	5.16	107.86	105.80
38	BE	147	LEU	CB-CA-C	-5.16	100.41	110.20
1	AA	188	C	N3-C4-N4	5.15	121.61	118.00
1	AA	1287	A	C5'-C4'-O4'	5.15	115.28	109.10
35	BB	956	G	O4'-C1'-N9	5.15	112.32	108.20
35	BB	2052	A	P-O3'-C3'	-5.15	113.52	119.70
1	AA	119	A	O4'-C1'-C2'	5.15	112.24	107.60
1	AA	371	A	C8-N9-C4	5.15	107.86	105.80
1	AA	382	A	N9-C4-C5	5.15	107.86	105.80
1	AA	519	C	OP1-P-OP2	-5.15	111.87	119.60
1	AA	553	A	C5-N7-C8	5.15	106.48	103.90
1	AA	633	G	N1-C6-O6	5.15	122.99	119.90
1	AA	705	G	OP1-P-OP2	-5.15	111.87	119.60
16	AP	39	PHE	CB-CG-CD1	5.15	124.41	120.80
35	BB	58	G	C5-C6-N1	-5.15	108.92	111.50
35	BB	278	A	C4-N9-C1'	5.15	135.57	126.30
35	BB	920	A	C8-N9-C4	-5.15	103.74	105.80
35	BB	1168	G	N7-C8-N9	5.15	115.68	113.10
35	BB	1431	A	N1-C2-N3	5.15	131.88	129.30
35	BB	1510	G	O4'-C4'-C3'	-5.15	98.85	104.00
35	BB	1562	U	O4'-C1'-N1	5.15	112.32	108.20
35	BB	1641	A	C5-N7-C8	5.15	106.48	103.90
35	BB	1729	U	C2-N1-C1'	5.15	123.88	117.70
35	BB	1900	A	C8-N9-C4	-5.15	103.74	105.80
35	BB	2183	A	O4'-C4'-C3'	-5.15	98.85	104.00
35	BB	2491	U	C5'-C4'-C3'	-5.15	107.75	116.00
35	BB	2537	U	O5'-P-OP2	5.15	116.88	110.70
35	BB	2543	G	C5'-C4'-C3'	-5.15	107.76	116.00
35	BB	2581	G	C2-N3-C4	5.15	114.48	111.90
35	BB	2728	U	C5-C4-O4	-5.15	122.81	125.90
49	BP	34	GLY	C-N-CA	5.15	134.58	121.70
1	AA	295	C	C2-N1-C1'	5.15	124.47	118.80
1	AA	305	G	O4'-C1'-C2'	-5.15	100.65	105.80
1	AA	328	C	C6-N1-C1'	-5.15	114.62	120.80
1	AA	652	U	O4'-C1'-N1	5.15	112.32	108.20
1	AA	801	U	O4'-C4'-C3'	-5.15	98.85	104.00
1	AA	900	A	C6-C5-N7	-5.15	128.69	132.30
1	AA	1112	C	C4-C5-C6	5.15	119.97	117.40
1	AA	1482	G	N7-C8-N9	5.15	115.68	113.10
12	AL	118	VAL	N-CA-CB	5.15	122.83	111.50
25	B0	68	ALA	N-CA-CB	5.15	117.31	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	B5	195	ALA	O-C-N	-5.15	114.46	122.70
35	BB	27	G	N1-C6-O6	5.15	122.99	119.90
35	BB	73	A	C4-C5-N7	-5.15	108.12	110.70
35	BB	217	A	C6-N1-C2	5.15	121.69	118.60
35	BB	535	G	N9-C4-C5	5.15	107.46	105.40
35	BB	612	G	C6-C5-N7	-5.15	127.31	130.40
35	BB	713	G	C8-N9-C1'	-5.15	120.30	127.00
35	BB	931	U	C2-N1-C1'	5.15	123.88	117.70
35	BB	936	A	C5-C6-N1	-5.15	115.12	117.70
35	BB	1595	C	C2-N1-C1'	-5.15	113.13	118.80
35	BB	1750	G	O4'-C4'-C3'	-5.15	98.85	104.00
35	BB	2876	G	C8-N9-C1'	5.15	133.70	127.00
1	AA	702	A	C6-C5-N7	-5.15	128.70	132.30
35	BB	414	C	C4-C5-C6	5.15	119.97	117.40
35	BB	632	A	C5-N7-C8	5.15	106.47	103.90
35	BB	974	G	C8-N9-C1'	-5.15	120.31	127.00
35	BB	1436	G	N3-C4-C5	5.15	131.18	128.60
35	BB	1486	U	C3'-C2'-C1'	-5.15	97.38	101.50
35	BB	2742	G	N1-C2-N3	-5.15	120.81	123.90
55	BW	63	ILE	N-CA-CB	5.15	122.64	110.80
1	AA	143	A	N7-C8-N9	-5.15	111.23	113.80
1	AA	442	G	N9-C4-C5	5.15	107.46	105.40
1	AA	466	A	N1-C2-N3	-5.15	126.73	129.30
1	AA	500	G	C5'-C4'-O4'	-5.15	102.92	109.10
1	AA	846	G	N9-C4-C5	-5.15	103.34	105.40
25	B0	40	GLU	N-CA-CB	5.15	119.87	110.60
35	BB	188	G	C1'-O4'-C4'	-5.15	105.78	109.90
35	BB	1689	A	P-O5'-C5'	5.15	129.14	120.90
35	BB	1763	G	C5-C6-O6	-5.15	125.51	128.60
35	BB	2252	G	C8-N9-C4	-5.15	104.34	106.40
36	BC	246	PRO	N-CD-CG	5.15	110.92	103.20
1	AA	7	A	N1-C2-N3	5.15	131.87	129.30
1	AA	1279	G	C6-C5-N7	-5.15	127.31	130.40
1	AA	1347	G	C4-C5-C6	5.15	121.89	118.80
34	BA	108	A	P-O3'-C3'	5.15	125.88	119.70
35	BB	46	G	C8-N9-C4	-5.15	104.34	106.40
35	BB	174	U	C5-C4-O4	-5.15	122.81	125.90
35	BB	622	G	C6-C5-N7	-5.15	127.31	130.40
35	BB	792	A	N9-C1'-C2'	-5.15	106.34	112.00
35	BB	1893	C	O4'-C1'-N1	5.15	112.32	108.20
35	BB	2385	C	N1-C2-N3	-5.15	115.60	119.20
1	AA	22	G	N1-C2-N3	-5.14	120.81	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	422	C	N1-C2-O2	5.14	121.99	118.90
1	AA	639	G	C4-C5-N7	5.14	112.86	110.80
1	AA	870	U	C5-C4-O4	-5.14	122.81	125.90
1	AA	1021	A	P-O5'-C5'	5.14	129.13	120.90
1	AA	1147	C	N1-C2-N3	-5.14	115.60	119.20
1	AA	1440	U	O4'-C1'-N1	5.14	112.32	108.20
1	AA	1462	C	O4'-C4'-C3'	-5.14	98.86	104.00
35	BB	463	G	N1-C2-N3	-5.14	120.81	123.90
35	BB	634	C	N3-C2-O2	5.14	125.50	121.90
35	BB	864	G	C5-C6-N1	-5.14	108.93	111.50
35	BB	951	C	C4-C5-C6	5.14	119.97	117.40
35	BB	1202	G	N3-C4-N9	-5.14	122.91	126.00
35	BB	1626	A	C5-N7-C8	5.14	106.47	103.90
1	AA	125	U	P-O3'-C3'	-5.14	113.53	119.70
1	AA	155	A	C8-N9-C4	-5.14	103.74	105.80
1	AA	168	G	C5-C6-N1	-5.14	108.93	111.50
1	AA	759	A	OP1-P-OP2	-5.14	111.89	119.60
3	AC	202	PHE	CB-CG-CD2	-5.14	117.20	120.80
35	BB	82	U	C6-N1-C2	-5.14	117.92	121.00
35	BB	381	G	N1-C6-O6	5.14	122.98	119.90
35	BB	653	U	N3-C2-O2	-5.14	118.60	122.20
35	BB	1007	C	C2-N3-C4	5.14	122.47	119.90
35	BB	1288	G	C5-N7-C8	5.14	106.87	104.30
35	BB	1723	G	N3-C4-N9	-5.14	122.92	126.00
35	BB	2286	G	OP1-P-OP2	-5.14	111.89	119.60
35	BB	2306	C	P-O3'-C3'	5.14	125.87	119.70
35	BB	2404	U	C2-N1-C1'	-5.14	111.53	117.70
35	BB	2599	G	C8-N9-C1'	5.14	133.69	127.00
35	BB	2638	G	C5'-C4'-O4'	5.14	115.27	109.10
35	BB	2686	G	C4-N9-C1'	5.14	133.18	126.50
35	BB	2755	C	C2-N1-C1'	5.14	124.46	118.80
35	BB	2764	A	C2-N3-C4	5.14	113.17	110.60
1	AA	117	G	P-O5'-C5'	5.14	129.12	120.90
34	BA	4	C	C4-C5-C6	5.14	119.97	117.40
34	BA	50	A	C5-N7-C8	5.14	106.47	103.90
34	BA	57	A	C4-C5-C6	5.14	119.57	117.00
35	BB	662	G	C2-N3-C4	-5.14	109.33	111.90
35	BB	1177	G	C1'-O4'-C4'	5.14	114.01	109.90
35	BB	1732	C	OP1-P-OP2	-5.14	111.89	119.60
35	BB	1920	C	N1-C1'-C2'	-5.14	106.34	112.00
35	BB	2045	C	C1'-O4'-C4'	-5.14	105.79	109.90
35	BB	2250	G	OP2-P-O3'	5.14	116.51	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2498	C	C5-C4-N4	5.14	123.80	120.20
35	BB	2737	G	P-O5'-C5'	5.14	129.12	120.90
1	AA	195	A	O4'-C4'-C3'	-5.14	98.86	104.00
1	AA	430	A	O4'-C1'-N9	5.14	112.31	108.20
1	AA	431	A	O4'-C1'-N9	5.14	112.31	108.20
1	AA	691	G	C5'-C4'-O4'	5.14	115.27	109.10
1	AA	826	C	C5-C4-N4	-5.14	116.60	120.20
1	AA	1109	C	C4-C5-C6	5.14	119.97	117.40
1	AA	1137	C	C2-N1-C1'	5.14	124.45	118.80
34	BA	118	C	N3-C2-O2	5.14	125.50	121.90
35	BB	219	A	C5-C6-N1	-5.14	115.13	117.70
35	BB	451	U	C1'-O4'-C4'	-5.14	105.79	109.90
35	BB	619	G	C5-C6-O6	-5.14	125.52	128.60
35	BB	1104	C	N3-C4-N4	5.14	121.60	118.00
35	BB	1298	C	N1-C2-N3	-5.14	115.60	119.20
35	BB	2253	G	C6-N1-C2	-5.14	122.02	125.10
35	BB	2471	A	N7-C8-N9	-5.14	111.23	113.80
35	BB	2525	G	C4-N9-C1'	-5.14	119.82	126.50
1	AA	868	C	N3-C4-C5	5.14	123.95	121.90
1	AA	1222	G	N1-C2-N2	5.14	120.82	116.20
1	AA	1356	G	O4'-C1'-N9	5.14	112.31	108.20
1	AA	1455	G	O4'-C1'-N9	5.14	112.31	108.20
1	AA	1479	C	P-O3'-C3'	-5.14	113.53	119.70
3	AC	129	PHE	CB-CG-CD1	5.14	124.40	120.80
35	BB	2566	A	N7-C8-N9	-5.14	111.23	113.80
1	AA	42	G	C8-N9-C4	5.14	108.45	106.40
1	AA	85	U	C2-N1-C1'	5.14	123.86	117.70
1	AA	183	C	N1-C2-O2	-5.14	115.82	118.90
1	AA	482	A	C3'-C2'-C1'	-5.14	97.39	101.50
1	AA	1238	A	N1-C6-N6	5.14	121.68	118.60
1	AA	1289	A	N1-C2-N3	-5.14	126.73	129.30
1	AA	1334	G	C2-N3-C4	-5.14	109.33	111.90
34	BA	21	G	C4-C5-N7	5.14	112.86	110.80
35	BB	242	G	C6-N1-C2	5.14	128.18	125.10
35	BB	283	G	C5'-C4'-C3'	5.14	124.22	116.00
35	BB	825	A	N7-C8-N9	-5.14	111.23	113.80
35	BB	979	A	C8-N9-C4	5.14	107.86	105.80
35	BB	1200	C	O4'-C1'-N1	5.14	112.31	108.20
35	BB	1228	G	C8-N9-C1'	5.14	133.68	127.00
35	BB	1930	G	P-O3'-C3'	5.14	125.86	119.70
35	BB	2114	A	C5-N7-C8	5.14	106.47	103.90
35	BB	2530	A	C5-C6-N1	-5.14	115.13	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2676	C	N3-C4-N4	5.14	121.59	118.00
35	BB	2722	G	O5'-C5'-C4'	-5.14	101.94	111.70
1	AA	47	C	N1-C2-O2	-5.13	115.82	118.90
1	AA	126	G	O4'-C1'-N9	5.13	112.31	108.20
1	AA	266	G	C4-C5-N7	-5.13	108.75	110.80
1	AA	645	G	N1-C2-N2	5.13	120.82	116.20
1	AA	1127	G	O4'-C1'-N9	-5.13	104.09	108.20
1	AA	1185	G	N3-C4-C5	-5.13	126.03	128.60
1	AA	1190	G	C6-N1-C2	5.13	128.18	125.10
1	AA	1305	G	N3-C4-N9	-5.13	122.92	126.00
8	AH	14	ARG	C-N-CA	5.13	134.54	121.70
34	BA	9	G	O4'-C1'-N9	5.13	112.31	108.20
35	BB	102	U	C4-C5-C6	-5.13	116.62	119.70
35	BB	386	G	N1-C2-N3	-5.13	120.82	123.90
35	BB	632	A	C4-C5-C6	5.13	119.57	117.00
35	BB	845	A	C8-N9-C4	-5.13	103.75	105.80
35	BB	1051	G	C5'-C4'-C3'	5.13	124.21	116.00
35	BB	1208	C	N3-C4-N4	5.13	121.59	118.00
35	BB	1268	A	C2-N3-C4	-5.13	108.03	110.60
35	BB	1448	G	N3-C4-C5	5.13	131.17	128.60
35	BB	1476	U	C4'-C3'-C2'	-5.13	97.47	102.60
35	BB	1568	G	OP2-P-O3'	5.13	116.50	105.20
35	BB	1599	U	OP1-P-OP2	-5.13	111.90	119.60
35	BB	1699	G	C4-N9-C1'	5.13	133.17	126.50
35	BB	1745	A	C6-N1-C2	-5.13	115.52	118.60
35	BB	2055	C	N1-C1'-C2'	-5.13	106.35	112.00
35	BB	2239	G	C5-C6-N1	-5.13	108.93	111.50
35	BB	2379	G	N7-C8-N9	5.13	115.67	113.10
35	BB	2398	U	C2-N3-C4	5.13	130.08	127.00
35	BB	2788	C	N3-C4-N4	5.13	121.59	118.00
1	AA	105	G	C5-C6-N1	-5.13	108.93	111.50
12	AL	94	TYR	N-CA-CB	5.13	119.84	110.60
35	BB	216	A	N3-C4-C5	-5.13	123.21	126.80
35	BB	1119	U	O4'-C1'-N1	5.13	112.31	108.20
35	BB	1567	G	C2-N3-C4	5.13	114.47	111.90
35	BB	1796	U	N3-C4-O4	5.13	122.99	119.40
35	BB	1933	G	C2-N3-C4	5.13	114.47	111.90
1	AA	438	U	C1'-O4'-C4'	5.13	114.00	109.90
1	AA	1013	G	N1-C2-N3	-5.13	120.82	123.90
1	AA	1142	G	C4-C5-C6	5.13	121.88	118.80
1	AA	1362	A	N1-C2-N3	5.13	131.87	129.30
1	AA	1447	A	P-O3'-C3'	5.13	125.86	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1490	U	C5'-C4'-C3'	-5.13	107.79	116.00
35	BB	87	U	C5-C6-N1	-5.13	120.13	122.70
35	BB	531	C	C4-C5-C6	5.13	119.97	117.40
35	BB	784	G	P-O3'-C3'	-5.13	113.54	119.70
35	BB	907	G	N9-C4-C5	-5.13	103.35	105.40
35	BB	1241	A	C8-N9-C4	-5.13	103.75	105.80
35	BB	1360	G	N1-C6-O6	5.13	122.98	119.90
35	BB	1366	A	C6-N1-C2	5.13	121.68	118.60
35	BB	1427	A	C1'-O4'-C4'	5.13	114.01	109.90
35	BB	2614	A	C5-C6-N6	-5.13	119.59	123.70
35	BB	2736	A	C5'-C4'-O4'	5.13	115.26	109.10
1	AA	711	G	C5-C6-N1	-5.13	108.94	111.50
1	AA	1018	G	C5-C6-O6	-5.13	125.52	128.60
1	AA	1211	U	C5-C6-N1	-5.13	120.14	122.70
1	AA	1267	C	N1-C2-N3	-5.13	115.61	119.20
1	AA	1350	A	O4'-C1'-N9	5.13	112.30	108.20
35	BB	521	U	C5-C6-N1	5.13	125.27	122.70
35	BB	643	A	C4-C5-N7	-5.13	108.14	110.70
35	BB	985	C	N3-C2-O2	5.13	125.49	121.90
35	BB	1157	G	C8-N9-C4	-5.13	104.35	106.40
35	BB	1159	U	C1'-O4'-C4'	5.13	114.00	109.90
35	BB	1726	C	N3-C4-N4	5.13	121.59	118.00
35	BB	2519	U	N1-C2-O2	-5.13	119.21	122.80
35	BB	2692	G	P-O5'-C5'	-5.13	112.69	120.90
1	AA	363	A	N1-C2-N3	-5.13	126.74	129.30
1	AA	596	A	C5-C6-N1	-5.13	115.14	117.70
1	AA	842	U	O5'-P-OP1	-5.13	101.08	105.70
1	AA	853	C	C2-N1-C1'	-5.13	113.16	118.80
1	AA	1081	A	C5-C6-N1	-5.13	115.14	117.70
1	AA	1480	A	C5-C6-N1	-5.13	115.14	117.70
2	AB	126	ASP	CB-CG-OD1	-5.13	113.69	118.30
34	BA	53	A	OP1-P-OP2	-5.13	111.91	119.60
35	BB	345	A	C8-N9-C4	-5.13	103.75	105.80
35	BB	780	G	C4-C5-C6	5.13	121.88	118.80
35	BB	1087	G	C3'-C2'-C1'	-5.13	97.40	101.50
35	BB	1129	A	C6-C5-N7	-5.13	128.71	132.30
35	BB	1743	G	C6-C5-N7	-5.13	127.32	130.40
35	BB	2248	C	C3'-C2'-C1'	-5.13	97.40	101.50
35	BB	2441	U	N3-C2-O2	5.13	125.79	122.20
35	BB	2452	C	N1-C2-O2	5.13	121.98	118.90
35	BB	2746	U	N3-C2-O2	5.13	125.79	122.20
1	AA	50	A	O4'-C1'-N9	5.13	112.30	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	315	A	C2-N3-C4	-5.13	108.04	110.60
1	AA	459	A	C2-N3-C4	-5.13	108.04	110.60
1	AA	802	A	C5-C6-N6	-5.13	119.60	123.70
1	AA	1075	U	C1'-O4'-C4'	5.13	114.00	109.90
1	AA	1126	U	N3-C4-C5	-5.13	111.52	114.60
1	AA	1336	C	N3-C4-C5	-5.13	119.85	121.90
1	AA	1449	C	C5-C6-N1	5.13	123.56	121.00
34	BA	57	A	C5-C6-N1	-5.13	115.14	117.70
35	BB	343	C	O3'-P-O5'	-5.13	94.26	104.00
35	BB	850	U	N3-C4-O4	5.13	122.99	119.40
35	BB	1277	G	C8-N9-C4	-5.13	104.35	106.40
35	BB	2047	C	N1-C2-N3	5.13	122.79	119.20
35	BB	2182	U	C2-N3-C4	-5.13	123.92	127.00
35	BB	2318	G	C8-N9-C4	5.13	108.45	106.40
35	BB	2336	A	C6-N1-C2	5.13	121.68	118.60
35	BB	2560	A	N7-C8-N9	5.13	116.36	113.80
35	BB	2579	C	C2-N3-C4	5.13	122.46	119.90
1	AA	81	A	C8-N9-C4	-5.12	103.75	105.80
34	BA	7	G	N9-C4-C5	-5.12	103.35	105.40
35	BB	138	U	C6-N1-C1'	-5.12	114.03	121.20
35	BB	191	A	C2-N3-C4	-5.12	108.04	110.60
35	BB	930	G	C5-N7-C8	-5.12	101.74	104.30
35	BB	1033	U	C6-N1-C2	5.12	124.08	121.00
35	BB	2537	U	N1-C2-N3	-5.12	111.83	114.90
35	BB	2751	G	C5-C6-N1	-5.12	108.94	111.50
1	AA	33	A	O4'-C1'-N9	5.12	112.30	108.20
1	AA	460	A	N1-C6-N6	5.12	121.67	118.60
1	AA	761	G	O4'-C1'-N9	5.12	112.30	108.20
1	AA	775	G	C5-N7-C8	-5.12	101.74	104.30
1	AA	1030	U	C5-C6-N1	5.12	125.26	122.70
1	AA	1228	C	C4-C5-C6	-5.12	114.84	117.40
35	BB	290	U	P-O5'-C5'	5.12	129.10	120.90
35	BB	610	C	C1'-O4'-C4'	5.12	114.00	109.90
35	BB	878	A	N1-C2-N3	5.12	131.86	129.30
35	BB	904	G	C2-N3-C4	5.12	114.46	111.90
35	BB	1445	G	C6-N1-C2	-5.12	122.03	125.10
35	BB	1891	G	N1-C2-N3	-5.12	120.83	123.90
35	BB	2168	G	N3-C2-N2	5.12	123.49	119.90
35	BB	2210	U	O4'-C1'-N1	5.12	112.30	108.20
35	BB	2795	C	C5-C4-N4	-5.12	116.61	120.20
35	BB	2890	G	C5-C6-O6	-5.12	125.53	128.60
35	BB	2892	G	N9-C4-C5	-5.12	103.35	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	306	A	C6-C5-N7	-5.12	128.71	132.30
1	AA	509	A	O4'-C1'-N9	5.12	112.30	108.20
1	AA	727	G	C5-C6-O6	-5.12	125.53	128.60
1	AA	976	G	C4'-C3'-C2'	5.12	107.72	102.60
1	AA	1025	U	C6-N1-C1'	-5.12	114.03	121.20
1	AA	1301	U	O4'-C1'-N1	5.12	112.30	108.20
29	B4	8	ILE	CB-CA-C	5.12	121.84	111.60
35	BB	38	A	P-O5'-C5'	-5.12	112.71	120.90
35	BB	213	A	C4-C5-C6	5.12	119.56	117.00
35	BB	508	A	C6-N1-C2	-5.12	115.53	118.60
35	BB	1287	A	N3-C4-C5	-5.12	123.22	126.80
35	BB	1331	G	OP2-P-O3'	5.12	116.47	105.20
35	BB	1581	G	N7-C8-N9	5.12	115.66	113.10
35	BB	1740	G	O5'-P-OP1	-5.12	101.09	105.70
35	BB	2001	C	C2-N3-C4	5.12	122.46	119.90
35	BB	2037	A	N1-C2-N3	5.12	131.86	129.30
35	BB	2491	U	C5-C4-O4	-5.12	122.83	125.90
35	BB	2493	U	N1-C2-O2	-5.12	119.22	122.80
35	BB	2603	G	N7-C8-N9	-5.12	110.54	113.10
35	BB	2632	A	C5'-C4'-O4'	5.12	115.25	109.10
35	BB	2709	G	C4-C5-N7	-5.12	108.75	110.80
44	BK	82	ASN	CB-CA-C	-5.12	100.16	110.40
1	AA	966	G	C4-N9-C1'	-5.12	119.84	126.50
1	AA	1407	C	C5-C6-N1	-5.12	118.44	121.00
7	AG	101	ARG	NE-CZ-NH2	5.12	122.86	120.30
35	BB	940	G	C3'-C2'-C1'	-5.12	97.40	101.50
35	BB	1573	G	C4-N9-C1'	-5.12	119.84	126.50
35	BB	1583	A	N7-C8-N9	5.12	116.36	113.80
35	BB	2076	U	C5'-C4'-C3'	5.12	124.19	116.00
36	BC	68	ARG	NE-CZ-NH1	-5.12	117.74	120.30
39	BF	111	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	AA	277	C	O4'-C1'-N1	5.12	112.30	108.20
1	AA	475	C	N3-C4-N4	5.12	121.58	118.00
1	AA	530	G	C4'-C3'-C2'	-5.12	97.48	102.60
1	AA	1329	A	N9-C4-C5	5.12	107.85	105.80
34	BA	99	A	N3-C4-C5	-5.12	123.22	126.80
35	BB	239	C	OP1-P-O3'	5.12	116.46	105.20
35	BB	674	G	N1-C2-N3	-5.12	120.83	123.90
35	BB	1027	A	C5-C6-N1	-5.12	115.14	117.70
35	BB	1272	A	C1'-O4'-C4'	-5.12	105.81	109.90
35	BB	2294	G	N3-C4-C5	-5.12	126.04	128.60
35	BB	2361	G	C6-C5-N7	5.12	133.47	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	2643	G	C5-C6-O6	-5.12	125.53	128.60
35	BB	2759	G	N1-C2-N3	-5.12	120.83	123.90
1	AA	667	G	P-O5'-C5'	-5.12	112.71	120.90
35	BB	608	A	C3'-C2'-C1'	5.12	105.59	101.50
35	BB	2375	G	N1-C2-N3	5.12	126.97	123.90
35	BB	2411	A	N3-C4-C5	-5.12	123.22	126.80
41	BH	93	SER	CB-CA-C	5.12	119.82	110.10
1	AA	256	U	C5'-C4'-C3'	-5.12	107.81	116.00
1	AA	375	U	C1'-O4'-C4'	-5.12	105.81	109.90
1	AA	773	G	C4-N9-C1'	-5.12	119.85	126.50
1	AA	815	A	C6-N1-C2	5.12	121.67	118.60
1	AA	908	A	C8-N9-C4	-5.12	103.75	105.80
1	AA	1275	A	C5-C6-N6	-5.12	119.61	123.70
24	AZ	23	ALA	CA-C-N	5.12	128.45	117.20
35	BB	197	A	C5'-C4'-O4'	5.12	115.24	109.10
35	BB	256	A	C3'-C2'-C1'	5.12	105.59	101.50
35	BB	409	G	OP2-P-O3'	5.12	116.45	105.20
35	BB	1372	U	C4-C5-C6	5.12	122.77	119.70
35	BB	1829	A	C2-N3-C4	-5.12	108.04	110.60
35	BB	1839	G	C5-N7-C8	-5.12	101.74	104.30
35	BB	1931	U	C4-C5-C6	-5.12	116.63	119.70
35	BB	2012	G	C5-C6-O6	-5.12	125.53	128.60
35	BB	2071	A	C2-N3-C4	-5.12	108.04	110.60
35	BB	2125	G	C5-N7-C8	5.12	106.86	104.30
35	BB	2209	G	C5-N7-C8	-5.12	101.74	104.30
1	AA	216	U	O5'-P-OP1	5.11	116.84	110.70
1	AA	371	A	N3-C4-N9	5.11	131.49	127.40
1	AA	651	C	C4-C5-C6	5.11	119.96	117.40
1	AA	791	G	C5'-C4'-O4'	5.11	115.24	109.10
1	AA	1517	G	C1'-O4'-C4'	5.11	113.99	109.90
35	BB	22	C	P-O3'-C3'	5.11	125.83	119.70
35	BB	362	A	O4'-C1'-N9	5.11	112.29	108.20
35	BB	575	A	C6-N1-C2	-5.11	115.53	118.60
35	BB	661	A	C1'-O4'-C4'	-5.11	105.81	109.90
35	BB	718	A	N1-C2-N3	5.11	131.86	129.30
35	BB	1454	C	N3-C2-O2	5.11	125.48	121.90
35	BB	1962	C	C2-N3-C4	5.11	122.46	119.90
35	BB	1986	C	O4'-C1'-N1	5.11	112.29	108.20
35	BB	2068	U	P-O3'-C3'	5.11	125.84	119.70
35	BB	2234	G	O4'-C1'-N9	5.11	112.29	108.20
35	BB	2381	A	C5-N7-C8	5.11	106.46	103.90
35	BB	2729	G	C5-C6-N1	-5.11	108.94	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2777	G	N3-C4-N9	5.11	129.07	126.00
44	BK	17	ARG	NE-CZ-NH2	-5.11	117.74	120.30
52	BS	4	ILE	CA-CB-CG1	5.11	120.71	111.00
1	AA	88	U	N1-C2-O2	5.11	126.38	122.80
1	AA	297	G	C6-C5-N7	-5.11	127.33	130.40
1	AA	871	U	N3-C4-C5	-5.11	111.53	114.60
1	AA	1237	C	N1-C2-O2	5.11	121.97	118.90
1	AA	1343	G	P-O3'-C3'	-5.11	113.57	119.70
35	BB	794	A	C4-C5-N7	-5.11	108.14	110.70
35	BB	1777	U	C4-C5-C6	5.11	122.77	119.70
35	BB	1809	A	N1-C2-N3	-5.11	126.74	129.30
35	BB	2558	C	N3-C2-O2	5.11	125.48	121.90
56	BY	18	LYS	N-CA-CB	5.11	119.80	110.60
1	AA	100	G	P-O3'-C3'	-5.11	113.57	119.70
1	AA	172	A	N1-C6-N6	5.11	121.67	118.60
14	AN	53	ASP	CB-CG-OD2	-5.11	113.70	118.30
35	BB	34	U	C4'-C3'-C2'	-5.11	97.49	102.60
35	BB	81	G	C8-N9-C4	-5.11	104.36	106.40
35	BB	183	C	OP1-P-O3'	5.11	116.44	105.20
35	BB	392	U	C1'-O4'-C4'	5.11	113.99	109.90
35	BB	700	G	C6-N1-C2	-5.11	122.03	125.10
35	BB	706	A	N9-C1'-C2'	-5.11	106.38	112.00
35	BB	753	A	C4-C5-C6	5.11	119.56	117.00
35	BB	756	A	C2-N3-C4	5.11	113.16	110.60
35	BB	913	U	C5'-C4'-C3'	5.11	124.18	116.00
35	BB	1080	A	N3-C4-C5	-5.11	123.22	126.80
35	BB	1108	U	C5-C4-O4	5.11	128.97	125.90
35	BB	1346	G	N7-C8-N9	5.11	115.66	113.10
35	BB	1346	G	P-O5'-C5'	-5.11	112.72	120.90
35	BB	1383	A	N3-C4-C5	-5.11	123.22	126.80
35	BB	1413	A	N3-C4-C5	-5.11	123.22	126.80
35	BB	1814	G	C3'-C2'-C1'	5.11	105.59	101.50
35	BB	1884	G	N1-C2-N3	-5.11	120.83	123.90
35	BB	2676	C	C1'-O4'-C4'	-5.11	105.81	109.90
41	BH	3	VAL	N-CA-C	-5.11	97.20	111.00
50	BQ	75	TYR	CD1-CE1-CZ	5.11	124.40	119.80
55	BW	30	ILE	N-CA-C	-5.11	97.20	111.00
1	AA	20	U	C2-N3-C4	5.11	130.06	127.00
1	AA	1087	G	C5-C6-N1	-5.11	108.94	111.50
1	AA	1143	G	C5-C6-O6	-5.11	125.53	128.60
1	AA	1401	G	C2-N3-C4	-5.11	109.35	111.90
35	BB	235	U	N3-C4-C5	5.11	117.67	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	486	C	C5-C6-N1	-5.11	118.44	121.00
35	BB	526	A	C5-N7-C8	5.11	106.45	103.90
35	BB	879	G	P-O5'-C5'	-5.11	112.73	120.90
35	BB	1613	G	P-O3'-C3'	-5.11	113.57	119.70
43	BJ	74	TYR	N-CA-C	-5.11	97.20	111.00
1	AA	487	A	P-O5'-C5'	-5.11	112.73	120.90
1	AA	659	U	C5-C4-O4	-5.11	122.84	125.90
1	AA	901	A	C4-C5-C6	5.11	119.55	117.00
1	AA	1088	G	P-O3'-C3'	-5.11	113.57	119.70
1	AA	1195	C	N1-C1'-C2'	-5.11	106.38	112.00
1	AA	1204	A	C5-C6-N1	-5.11	115.15	117.70
1	AA	1232	U	N3-C4-O4	5.11	122.98	119.40
7	AG	99	ALA	CB-CA-C	-5.11	102.44	110.10
34	BA	86	G	O4'-C1'-N9	5.11	112.29	108.20
35	BB	131	A	N7-C8-N9	-5.11	111.25	113.80
35	BB	173	A	O4'-C4'-C3'	-5.11	98.89	104.00
35	BB	269	C	C5-C4-N4	-5.11	116.62	120.20
35	BB	674	G	C5-C6-N1	-5.11	108.95	111.50
35	BB	1829	A	N1-C6-N6	5.11	121.66	118.60
35	BB	1830	C	C5'-C4'-O4'	5.11	115.23	109.10
35	BB	2634	A	OP2-P-O3'	5.11	116.44	105.20
35	BB	2660	A	C5-N7-C8	5.11	106.45	103.90
35	BB	2702	G	C6-N1-C2	5.11	128.16	125.10
35	BB	2883	A	N9-C4-C5	5.11	107.84	105.80
40	BG	89	VAL	C-N-CA	5.11	133.03	122.30
54	BU	13	LEU	CA-CB-CG	5.11	127.05	115.30
1	AA	675	A	O5'-C5'-C4'	-5.11	102.00	111.70
1	AA	1339	A	C6-C5-N7	-5.11	128.73	132.30
1	AA	1368	A	C3'-C2'-C1'	5.11	105.58	101.50
22	AV	17(A)	U	O4'-C1'-N1	5.11	112.28	108.20
32	B7	13	PHE	CD1-CE1-CZ	5.11	126.23	120.10
35	BB	446	G	N3-C4-N9	5.11	129.06	126.00
35	BB	497	A	N3-C4-N9	-5.11	123.32	127.40
35	BB	1199	U	C2-N1-C1'	-5.11	111.57	117.70
35	BB	2146	C	C4'-C3'-C2'	-5.11	97.50	102.60
35	BB	2502	G	O4'-C1'-C2'	5.11	112.20	107.60
35	BB	2521	C	O4'-C1'-N1	5.11	112.28	108.20
35	BB	2546	U	P-O3'-C3'	5.11	125.83	119.70
35	BB	2590	A	C5-N7-C8	5.11	106.45	103.90
35	BB	2605	U	C6-N1-C2	-5.11	117.94	121.00
35	BB	2809	A	C5'-C4'-C3'	5.11	124.17	116.00
35	BB	2844	G	N1-C6-O6	5.11	122.96	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	965	U	N3-C4-O4	5.10	122.97	119.40
35	BB	72	U	N1-C2-N3	-5.10	111.84	114.90
35	BB	143	C	P-O5'-C5'	5.10	129.07	120.90
35	BB	550	C	C5-C6-N1	5.10	123.55	121.00
35	BB	860	U	C1'-O4'-C4'	5.10	113.98	109.90
35	BB	890	C	C5-C6-N1	5.10	123.55	121.00
35	BB	1176	U	O4'-C1'-N1	5.10	112.28	108.20
35	BB	1893	C	C5'-C4'-O4'	-5.10	102.97	109.10
35	BB	2023	C	C2-N3-C4	-5.10	117.35	119.90
35	BB	2262	U	N3-C4-O4	5.10	122.97	119.40
35	BB	2785	C	N1-C2-N3	-5.10	115.63	119.20
47	BN	80	PHE	CZ-CE2-CD2	-5.10	113.97	120.10
1	AA	50	A	C5'-C4'-C3'	-5.10	107.84	116.00
1	AA	446	G	C4'-C3'-C2'	-5.10	97.50	102.60
1	AA	489	C	N3-C2-O2	5.10	125.47	121.90
1	AA	1069	C	O4'-C1'-N1	5.10	112.28	108.20
35	BB	600	G	O4'-C1'-N9	5.10	112.28	108.20
35	BB	663	G	N1-C6-O6	5.10	122.96	119.90
35	BB	717	C	C2-N3-C4	5.10	122.45	119.90
35	BB	1674	G	C4-C5-C6	5.10	121.86	118.80
35	BB	1723	G	N3-C4-C5	5.10	131.15	128.60
35	BB	1959	G	N3-C4-N9	-5.10	122.94	126.00
35	BB	2352	A	C6-N1-C2	5.10	121.66	118.60
35	BB	2486	C	N3-C4-N4	5.10	121.57	118.00
1	AA	98	A	N9-C1'-C2'	-5.10	106.39	112.00
1	AA	677	U	C5'-C4'-C3'	-5.10	107.84	116.00
1	AA	802	A	N7-C8-N9	-5.10	111.25	113.80
1	AA	922	G	C8-N9-C1'	5.10	133.63	127.00
1	AA	1034	G	N3-C4-N9	-5.10	122.94	126.00
1	AA	1159	U	C2-N3-C4	5.10	130.06	127.00
35	BB	123	G	C4-N9-C1'	-5.10	119.87	126.50
35	BB	529	A	C8-N9-C4	-5.10	103.76	105.80
1	AA	82	G	C3'-C2'-C1'	-5.10	97.42	101.50
1	AA	827	U	N1-C2-O2	-5.10	119.23	122.80
1	AA	1058	G	C6-C5-N7	-5.10	127.34	130.40
35	BB	54	G	C3'-C2'-C1'	5.10	105.58	101.50
35	BB	72	U	N3-C2-O2	-5.10	118.63	122.20
35	BB	386	G	P-O3'-C3'	-5.10	113.58	119.70
35	BB	567	U	N1-C2-N3	-5.10	111.84	114.90
35	BB	761	A	O4'-C1'-N9	5.10	112.28	108.20
35	BB	1105	U	C5-C6-N1	5.10	125.25	122.70
35	BB	1254	A	C5-C6-N6	5.10	127.78	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1728	C	N3-C4-N4	5.10	121.57	118.00
35	BB	2134	A	N3-C4-C5	-5.10	123.23	126.80
35	BB	2140	G	O4'-C1'-N9	5.10	112.28	108.20
35	BB	2367	G	C5-N7-C8	-5.10	101.75	104.30
35	BB	2704	C	C4-C5-C6	5.10	119.95	117.40
49	BP	35	SER	N-CA-CB	5.10	118.15	110.50
1	AA	431	A	P-O3'-C3'	5.10	125.82	119.70
1	AA	558	G	N3-C4-N9	5.10	129.06	126.00
1	AA	906	A	O4'-C4'-C3'	-5.10	98.90	104.00
1	AA	1005	A	C5'-C4'-C3'	-5.10	107.84	116.00
1	AA	1064	G	C8-N9-C1'	5.10	133.63	127.00
1	AA	1419	G	O5'-C5'-C4'	-5.10	102.01	111.70
9	AI	112	ARG	NE-CZ-NH1	-5.10	117.75	120.30
14	AN	41	TRP	CB-CG-CD2	-5.10	119.97	126.60
20	AT	58	ASP	N-CA-CB	5.10	119.77	110.60
22	AV	71	C	C2-N3-C4	5.10	122.45	119.90
35	BB	27	G	C4'-C3'-C2'	-5.10	97.50	102.60
35	BB	238	C	OP1-P-OP2	-5.10	111.95	119.60
35	BB	327	G	C4'-C3'-C2'	-5.10	97.50	102.60
35	BB	534	U	O4'-C1'-N1	5.10	112.28	108.20
35	BB	1145	C	C2-N3-C4	5.10	122.45	119.90
35	BB	1954	G	C5-C6-N1	5.10	114.05	111.50
35	BB	2038	G	N3-C4-N9	-5.10	122.94	126.00
35	BB	2276	G	N3-C4-C5	5.10	131.15	128.60
35	BB	2553	G	P-O3'-C3'	5.10	125.82	119.70
35	BB	2554	U	P-O5'-C5'	5.10	129.06	120.90
35	BB	2894	G	C4-N9-C1'	5.10	133.13	126.50
39	BF	96	TRP	CE3-CZ3-CH2	5.10	126.81	121.20
1	AA	281	G	C8-N9-C1'	-5.10	120.38	127.00
1	AA	772	U	C5-C6-N1	5.10	125.25	122.70
22	AV	5	A	C5-C6-N6	-5.10	119.62	123.70
35	BB	581	C	C6-N1-C2	-5.10	118.26	120.30
35	BB	804	A	C6-C5-N7	-5.10	128.73	132.30
35	BB	1954	G	N3-C4-C5	-5.10	126.05	128.60
49	BP	98	TYR	CD1-CE1-CZ	-5.10	115.21	119.80
1	AA	209	U	C5-C4-O4	-5.09	122.84	125.90
1	AA	344	A	C2-N3-C4	5.09	113.15	110.60
1	AA	1001	C	C2-N1-C1'	5.09	124.41	118.80
1	AA	1015	G	N3-C4-C5	-5.09	126.05	128.60
1	AA	1111	A	C4-C5-C6	5.09	119.55	117.00
1	AA	1139	G	C5-C6-N1	-5.09	108.95	111.50
1	AA	1173	U	N1-C2-N3	-5.09	111.84	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	51	G	N9-C1'-C2'	-5.09	106.40	112.00
35	BB	279	A	N1-C2-N3	5.09	131.85	129.30
35	BB	321	U	C1'-O4'-C4'	-5.09	105.83	109.90
35	BB	328	U	C5-C6-N1	5.09	125.25	122.70
35	BB	453	A	N3-C4-C5	5.09	130.37	126.80
35	BB	726	G	P-O5'-C5'	5.09	129.05	120.90
35	BB	1244	A	C5-N7-C8	5.09	106.45	103.90
35	BB	1610	A	C5'-C4'-C3'	-5.09	107.85	116.00
35	BB	1744	A	C5-C6-N1	-5.09	115.15	117.70
35	BB	2426	A	N9-C4-C5	5.09	107.84	105.80
35	BB	2824	C	N3-C4-N4	5.09	121.57	118.00
1	AA	78	A	OP2-P-O3'	5.09	116.40	105.20
1	AA	165	G	C2-N3-C4	5.09	114.45	111.90
1	AA	217	C	C6-N1-C1'	-5.09	114.69	120.80
13	AM	22	TYR	CG-CD1-CE1	-5.09	117.22	121.30
35	BB	1973	G	N1-C6-O6	5.09	122.96	119.90
35	BB	2132	U	O4'-C1'-N1	5.09	112.27	108.20
35	BB	2539	C	N1-C2-N3	-5.09	115.64	119.20
44	BK	121	GLU	OE1-CD-OE2	5.09	129.41	123.30
1	AA	112	G	C4-C5-C6	5.09	121.86	118.80
1	AA	196	A	C2-N3-C4	-5.09	108.06	110.60
1	AA	445	G	C5-C6-N1	-5.09	108.95	111.50
1	AA	445	G	N3-C4-N9	-5.09	122.94	126.00
1	AA	634	C	C3'-C2'-C1'	-5.09	97.43	101.50
1	AA	868	C	P-O5'-C5'	-5.09	112.75	120.90
1	AA	918	A	N9-C4-C5	5.09	107.84	105.80
1	AA	1272	G	C4-C5-C6	5.09	121.86	118.80
1	AA	1327	C	N1-C2-O2	-5.09	115.84	118.90
35	BB	218	A	O4'-C4'-C3'	5.09	110.17	106.10
35	BB	250	G	C5-C6-O6	5.09	131.66	128.60
35	BB	577	G	N3-C2-N2	5.09	123.46	119.90
35	BB	911	A	C1'-O4'-C4'	5.09	113.97	109.90
35	BB	913	U	C2-N3-C4	5.09	130.05	127.00
35	BB	1120	G	N3-C4-N9	-5.09	122.95	126.00
35	BB	1733	G	C4-C5-N7	-5.09	108.76	110.80
35	BB	1829	A	O4'-C1'-N9	5.09	112.27	108.20
35	BB	2031	A	C4-C5-N7	-5.09	108.16	110.70
35	BB	2209	G	C8-N9-C4	-5.09	104.36	106.40
35	BB	2780	G	C6-C5-N7	-5.09	127.34	130.40
35	BB	2799	A	N9-C4-C5	5.09	107.84	105.80
1	AA	96	U	C3'-C2'-C1'	5.09	105.57	101.50
1	AA	574	A	C5-C6-N6	-5.09	119.63	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	686	U	C1'-O4'-C4'	-5.09	105.83	109.90
1	AA	726	C	C4'-C3'-C2'	-5.09	97.51	102.60
1	AA	784	A	C5-N7-C8	5.09	106.44	103.90
1	AA	1094	G	O3'-P-O5'	-5.09	94.33	104.00
1	AA	1104	G	C6-N1-C2	-5.09	122.05	125.10
1	AA	1340	A	C1'-O4'-C4'	5.09	113.97	109.90
22	AV	7	G	N1-C2-N2	-5.09	111.62	116.20
29	B4	38	PHE	CB-CG-CD2	-5.09	117.24	120.80
35	BB	207	A	N9-C4-C5	-5.09	103.76	105.80
35	BB	401	A	C5-C6-N6	-5.09	119.63	123.70
35	BB	617	G	N7-C8-N9	-5.09	110.56	113.10
35	BB	705	A	P-O3'-C3'	5.09	125.81	119.70
35	BB	815	C	C2-N3-C4	5.09	122.44	119.90
35	BB	903	C	O4'-C1'-N1	5.09	112.27	108.20
35	BB	953	G	N9-C4-C5	-5.09	103.36	105.40
35	BB	1168	G	N1-C2-N3	-5.09	120.85	123.90
35	BB	1482	G	N3-C2-N2	5.09	123.46	119.90
35	BB	1504	A	N7-C8-N9	5.09	116.34	113.80
35	BB	1957	C	C4'-C3'-C2'	-5.09	97.51	102.60
35	BB	2490	G	C5-C6-N1	-5.09	108.95	111.50
35	BB	2880	C	C5-C6-N1	-5.09	118.45	121.00
40	BG	136	ASP	N-CA-CB	5.09	119.76	110.60
1	AA	391	G	C4'-C3'-C2'	-5.09	97.51	102.60
1	AA	585	G	N3-C4-N9	5.09	129.05	126.00
35	BB	1023	U	N3-C2-O2	5.09	125.76	122.20
35	BB	1964	G	C4-C5-C6	5.09	121.85	118.80
1	AA	831	A	C4-C5-C6	5.09	119.54	117.00
1	AA	919	A	C4-C5-N7	5.09	113.24	110.70
1	AA	971	G	N1-C6-O6	5.09	122.95	119.90
1	AA	1373	G	O4'-C4'-C3'	-5.09	98.91	104.00
1	AA	1498	U	C5-C6-N1	-5.09	120.16	122.70
1	AA	1534	A	O4'-C1'-N9	5.09	112.27	108.20
2	AB	183	PHE	CB-CG-CD1	5.09	124.36	120.80
30	B5	179	ASP	O-C-N	-5.09	114.56	122.70
35	BB	301	G	C4-C5-N7	-5.09	108.77	110.80
35	BB	404	A	N9-C4-C5	-5.09	103.77	105.80
35	BB	435	C	C5-C4-N4	-5.09	116.64	120.20
35	BB	599	A	C4-C5-C6	5.09	119.54	117.00
35	BB	671	C	C5-C4-N4	-5.09	116.64	120.20
35	BB	863	A	C5-C6-N1	-5.09	115.16	117.70
35	BB	986	C	N3-C2-O2	5.09	125.46	121.90
35	BB	1037	G	C4-C5-C6	5.09	121.85	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1120	G	OP1-P-OP2	-5.09	111.97	119.60
35	BB	1173	U	N3-C4-O4	5.09	122.96	119.40
35	BB	1174	U	C4-C5-C6	-5.09	116.65	119.70
35	BB	1318	U	C6-N1-C2	-5.09	117.95	121.00
35	BB	1412	U	N1-C2-O2	5.09	126.36	122.80
35	BB	1488	C	OP1-P-O3'	5.09	116.39	105.20
35	BB	1664	A	C4-C5-N7	-5.09	108.16	110.70
35	BB	2197	U	N1-C2-N3	-5.09	111.85	114.90
35	BB	2288	A	N7-C8-N9	-5.09	111.26	113.80
35	BB	2566	A	N1-C2-N3	-5.09	126.76	129.30
35	BB	2855	C	N1-C1'-C2'	-5.09	106.41	112.00
35	BB	2884	U	C4-C5-C6	5.09	122.75	119.70
1	AA	378	G	N3-C2-N2	5.08	123.46	119.90
1	AA	660	C	C5-C4-N4	-5.08	116.64	120.20
1	AA	1359	C	C5'-C4'-O4'	5.08	115.20	109.10
1	AA	1368	A	OP1-P-OP2	-5.08	111.97	119.60
35	BB	189	G	C4-C5-C6	5.08	121.85	118.80
35	BB	396	G	N9-C1'-C2'	-5.08	106.41	112.00
35	BB	1071	G	C5-C6-O6	-5.08	125.55	128.60
35	BB	1868	C	C2-N1-C1'	-5.08	113.21	118.80
35	BB	1880	U	C6-N1-C2	-5.08	117.95	121.00
35	BB	1981	A	N1-C2-N3	5.08	131.84	129.30
35	BB	2622	U	N1-C2-O2	5.08	126.36	122.80
35	BB	2741	A	OP1-P-OP2	-5.08	111.97	119.60
1	AA	520	A	C4-C5-N7	-5.08	108.16	110.70
1	AA	644	U	C2-N3-C4	-5.08	123.95	127.00
1	AA	664	G	C6-C5-N7	-5.08	127.35	130.40
1	AA	947	G	C6-C5-N7	-5.08	127.35	130.40
1	AA	1513	A	OP1-P-OP2	-5.08	111.97	119.60
35	BB	115	C	C5'-C4'-O4'	-5.08	103.00	109.10
35	BB	265	A	C4'-C3'-C2'	-5.08	97.52	102.60
35	BB	1284	A	O4'-C1'-N9	5.08	112.27	108.20
35	BB	1346	G	C8-N9-C4	-5.08	104.37	106.40
35	BB	1399	C	C4-C5-C6	5.08	119.94	117.40
35	BB	1776	G	C3'-C2'-C1'	5.08	105.57	101.50
35	BB	1984	G	C3'-C2'-C1'	5.08	105.57	101.50
35	BB	2068	U	C4'-C3'-C2'	-5.08	97.52	102.60
35	BB	2619	C	N1-C2-O2	5.08	121.95	118.90
35	BB	2623	G	N1-C2-N2	5.08	120.78	116.20
35	BB	2708	G	C2-N3-C4	5.08	114.44	111.90
35	BB	2708	G	C5-C6-N1	-5.08	108.96	111.50
35	BB	2840	C	C6-N1-C2	-5.08	118.27	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	113	G	N3-C4-N9	-5.08	122.95	126.00
1	AA	146	G	C3'-C2'-C1'	5.08	105.57	101.50
1	AA	501	C	C3'-C2'-C1'	-5.08	97.44	101.50
1	AA	529	G	C5-C6-N1	5.08	114.04	111.50
1	AA	669	G	C3'-C2'-C1'	-5.08	97.44	101.50
1	AA	883	C	N1-C2-O2	-5.08	115.85	118.90
1	AA	1079	G	C6-C5-N7	-5.08	127.35	130.40
1	AA	1186	G	N1-C6-O6	5.08	122.95	119.90
1	AA	1304	G	N9-C4-C5	-5.08	103.37	105.40
1	AA	1388	C	C3'-C2'-C1'	-5.08	97.44	101.50
1	AA	1522	U	N3-C2-O2	-5.08	118.64	122.20
5	AE	24	VAL	CA-CB-CG1	5.08	118.52	110.90
12	AL	120	ARG	NE-CZ-NH2	-5.08	117.76	120.30
34	BA	117	G	C8-N9-C4	-5.08	104.37	106.40
35	BB	205	G	C5-C6-O6	-5.08	125.55	128.60
35	BB	377	G	P-O3'-C3'	-5.08	113.60	119.70
35	BB	1001	A	C4-C5-N7	5.08	113.24	110.70
35	BB	1679	A	OP2-P-O3'	5.08	116.38	105.20
35	BB	1818	U	N3-C2-O2	5.08	125.76	122.20
35	BB	1920	C	C6-N1-C2	-5.08	118.27	120.30
35	BB	1921	G	C6-N1-C2	5.08	128.15	125.10
35	BB	2844	G	C5'-C4'-C3'	-5.08	107.87	116.00
1	AA	1380	U	OP1-P-OP2	-5.08	111.98	119.60
35	BB	1234	U	N1-C2-N3	-5.08	111.85	114.90
35	BB	1237	A	C4'-C3'-C2'	-5.08	97.52	102.60
35	BB	1674	G	N3-C4-N9	-5.08	122.95	126.00
35	BB	2396	G	C5'-C4'-C3'	-5.08	107.87	116.00
53	BT	84	TYR	N-CA-CB	5.08	119.74	110.60
1	AA	195	A	N9-C1'-C2'	-5.08	106.41	112.00
1	AA	283	U	O4'-C1'-N1	5.08	112.26	108.20
1	AA	306	A	C6-N1-C2	5.08	121.65	118.60
1	AA	664	G	C5-C6-N1	-5.08	108.96	111.50
1	AA	1313	U	C5-C6-N1	5.08	125.24	122.70
1	AA	1350	A	C2-N3-C4	-5.08	108.06	110.60
1	AA	1499	A	N3-C4-C5	-5.08	123.25	126.80
4	AD	162	GLU	OE1-CD-OE2	5.08	129.40	123.30
22	AV	32	A	N1-C6-N6	5.08	121.65	118.60
27	B2	54	VAL	CA-CB-CG1	-5.08	103.28	110.90
34	BA	79	G	C5'-C4'-C3'	-5.08	107.88	116.00
35	BB	35	G	O4'-C4'-C3'	-5.08	98.92	104.00
35	BB	153	U	C3'-C2'-C1'	5.08	105.56	101.50
35	BB	179	C	N3-C4-N4	5.08	121.56	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	192	C	O4'-C1'-N1	5.08	112.26	108.20
35	BB	1633	G	N7-C8-N9	-5.08	110.56	113.10
35	BB	1669	A	N9-C4-C5	5.08	107.83	105.80
35	BB	2137	U	P-O3'-C3'	5.08	125.80	119.70
35	BB	2184	A	C1'-O4'-C4'	5.08	113.96	109.90
35	BB	2383	G	O4'-C1'-N9	5.08	112.26	108.20
51	BR	55	ASP	N-CA-CB	5.08	119.74	110.60
1	AA	138	G	C4-N9-C1'	-5.08	119.90	126.50
1	AA	670	G	N3-C4-C5	5.08	131.14	128.60
10	AJ	70	HIS	CA-CB-CG	-5.08	104.97	113.60
34	BA	72	G	C6-C5-N7	-5.08	127.35	130.40
35	BB	1941	C	C4-C5-C6	-5.08	114.86	117.40
35	BB	2214	C	C6-N1-C2	-5.08	118.27	120.30
35	BB	2588	G	C8-N9-C1'	-5.08	120.40	127.00
35	BB	2598	A	C8-N9-C4	5.08	107.83	105.80
1	AA	45	G	C5'-C4'-O4'	-5.08	103.01	109.10
1	AA	241	G	C4-C5-C6	5.08	121.84	118.80
1	AA	354	G	O4'-C1'-N9	5.08	112.26	108.20
1	AA	623	C	OP2-P-O3'	5.08	116.36	105.20
1	AA	723	U	N3-C2-O2	5.08	125.75	122.20
1	AA	738	C	C4-C5-C6	-5.08	114.86	117.40
1	AA	833	G	C4-C5-C6	5.08	121.85	118.80
1	AA	997	U	N1-C2-N3	-5.08	111.85	114.90
1	AA	1400	C	C1'-O4'-C4'	-5.08	105.84	109.90
4	AD	174	ALA	CA-C-N	5.08	126.35	116.20
6	AF	92	THR	CA-CB-CG2	-5.08	105.29	112.40
35	BB	56	A	N1-C6-N6	5.08	121.65	118.60
35	BB	78	U	C6-N1-C2	-5.08	117.95	121.00
35	BB	181	A	N3-C4-C5	-5.08	123.25	126.80
35	BB	437	U	N3-C4-O4	5.08	122.95	119.40
35	BB	553	G	N7-C8-N9	-5.08	110.56	113.10
35	BB	670	A	C4-N9-C1'	5.08	135.44	126.30
35	BB	679	C	P-O5'-C5'	-5.08	112.78	120.90
35	BB	1400	U	P-O3'-C3'	-5.08	113.61	119.70
35	BB	1478	G	O4'-C1'-N9	5.08	112.26	108.20
35	BB	1501	G	N9-C4-C5	-5.08	103.37	105.40
35	BB	1623	G	C8-N9-C4	5.08	108.43	106.40
35	BB	1667	G	C6-N1-C2	5.08	128.15	125.10
35	BB	2110	G	C1'-O4'-C4'	5.08	113.96	109.90
35	BB	2257	U	O4'-C1'-N1	5.08	112.26	108.20
35	BB	2610	C	C3'-C2'-C1'	-5.08	97.44	101.50
35	BB	2627	G	P-O3'-C3'	5.08	125.79	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	BQ	18	LYS	N-CA-CB	5.08	119.74	110.60
1	AA	32	A	N3-C4-C5	-5.07	123.25	126.80
1	AA	190	A	C3'-C2'-C1'	-5.07	97.44	101.50
1	AA	645	G	C5-N7-C8	5.07	106.84	104.30
1	AA	1019	A	N1-C2-N3	-5.07	126.76	129.30
1	AA	1275	A	C1'-O4'-C4'	-5.07	105.84	109.90
1	AA	1410	A	O4'-C1'-N9	5.07	112.26	108.20
2	AB	158	ASP	O-C-N	-5.07	114.58	122.70
13	AM	75	SER	CB-CA-C	-5.07	100.46	110.10
35	BB	249	C	O4'-C4'-C3'	5.07	110.16	106.10
35	BB	268	C	N3-C2-O2	-5.07	118.35	121.90
35	BB	857	G	P-O3'-C3'	-5.07	113.61	119.70
35	BB	916	G	C1'-O4'-C4'	-5.07	105.84	109.90
35	BB	1454	C	C5-C6-N1	5.07	123.54	121.00
35	BB	1496	A	C4-C5-C6	5.07	119.54	117.00
35	BB	2149	U	P-O3'-C3'	5.07	125.79	119.70
35	BB	2220	U	C5-C4-O4	5.07	128.94	125.90
35	BB	2402	U	C4-C5-C6	-5.07	116.66	119.70
1	AA	133	U	N1-C2-O2	-5.07	119.25	122.80
1	AA	432	A	C3'-C2'-C1'	-5.07	97.44	101.50
1	AA	722	G	N9-C4-C5	5.07	107.43	105.40
35	BB	32	C	C6-N1-C2	-5.07	118.27	120.30
35	BB	877	A	C5-N7-C8	5.07	106.44	103.90
35	BB	1235	G	C5-C6-N1	-5.07	108.96	111.50
35	BB	2810	A	C5-C6-N6	-5.07	119.64	123.70
47	BN	45	ARG	NE-CZ-NH1	-5.07	117.76	120.30
1	AA	6	G	C4-C5-N7	5.07	112.83	110.80
1	AA	84	U	N3-C4-O4	5.07	122.95	119.40
1	AA	141	G	P-O5'-C5'	-5.07	112.79	120.90
1	AA	303	A	C5-N7-C8	-5.07	101.36	103.90
1	AA	585	G	N1-C6-O6	5.07	122.94	119.90
1	AA	633	G	N1-C2-N2	-5.07	111.64	116.20
1	AA	689	C	C2-N1-C1'	5.07	124.38	118.80
2	AB	77	GLU	N-CA-CB	5.07	119.73	110.60
35	BB	44	A	N7-C8-N9	-5.07	111.27	113.80
35	BB	127	A	O4'-C1'-N9	5.07	112.26	108.20
35	BB	656	G	C6-N1-C2	5.07	128.14	125.10
35	BB	956	G	P-O3'-C3'	-5.07	113.61	119.70
35	BB	1203	U	C3'-C2'-C1'	5.07	105.56	101.50
35	BB	1309	G	N3-C4-C5	-5.07	126.06	128.60
35	BB	1683	U	P-O5'-C5'	5.07	129.01	120.90
35	BB	1938	A	C5-C6-N1	-5.07	115.17	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2093	G	N3-C4-C5	5.07	131.14	128.60
35	BB	2238	G	C8-N9-C4	5.07	108.43	106.40
35	BB	2751	G	C4-C5-C6	5.07	121.84	118.80
45	BL	48	ARG	NE-CZ-NH2	5.07	122.83	120.30
48	BO	97	PHE	O-C-N	5.07	130.81	122.70
1	AA	773	G	N3-C4-N9	5.07	129.04	126.00
1	AA	868	C	N3-C2-O2	-5.07	118.35	121.90
35	BB	378	C	P-O3'-C3'	-5.07	113.62	119.70
35	BB	1473	G	N3-C4-N9	-5.07	122.96	126.00
35	BB	1643	G	N1-C2-N3	-5.07	120.86	123.90
35	BB	2117	A	N9-C1'-C2'	-5.07	106.42	112.00
35	BB	2396	G	C5-C6-N1	5.07	114.03	111.50
35	BB	2471	A	C4'-C3'-C2'	-5.07	97.53	102.60
1	AA	400	C	C1'-O4'-C4'	5.07	113.95	109.90
1	AA	567	G	C4-C5-N7	5.07	112.83	110.80
1	AA	1372	U	N1-C2-N3	5.07	117.94	114.90
2	AB	31	PHE	CB-CG-CD2	-5.07	117.25	120.80
35	BB	679	C	OP1-P-O3'	5.07	116.35	105.20
35	BB	680	C	N3-C2-O2	5.07	125.45	121.90
35	BB	1354	A	C4-N9-C1'	-5.07	117.18	126.30
35	BB	1357	C	C2-N3-C4	5.07	122.43	119.90
35	BB	1444	G	O4'-C1'-C2'	-5.07	100.73	105.80
35	BB	1536	C	OP1-P-O3'	5.07	116.35	105.20
35	BB	1810	A	C8-N9-C4	-5.07	103.77	105.80
35	BB	2002	G	N3-C2-N2	5.07	123.45	119.90
35	BB	2257	U	C5-C6-N1	-5.07	120.17	122.70
35	BB	2261	C	C6-N1-C1'	-5.07	114.72	120.80
35	BB	2669	G	P-O3'-C3'	-5.07	113.62	119.70
1	AA	354	G	C5-C6-O6	-5.07	125.56	128.60
1	AA	548	G	N1-C6-O6	5.07	122.94	119.90
1	AA	615	G	N3-C2-N2	5.07	123.45	119.90
1	AA	1293	C	N3-C4-N4	5.07	121.55	118.00
1	AA	1295	U	C2-N3-C4	-5.07	123.96	127.00
1	AA	1297	G	N3-C2-N2	5.07	123.45	119.90
35	BB	187	G	N3-C4-C5	5.07	131.13	128.60
35	BB	264	C	N3-C2-O2	5.07	125.45	121.90
35	BB	420	C	P-O5'-C5'	-5.07	112.79	120.90
35	BB	682	G	O4'-C1'-N9	5.07	112.25	108.20
35	BB	735	A	O4'-C1'-N9	5.07	112.25	108.20
35	BB	760	G	O4'-C1'-N9	5.07	112.25	108.20
35	BB	1145	C	C4-C5-C6	-5.07	114.87	117.40
35	BB	1771	C	C1'-O4'-C4'	-5.07	105.85	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2280	G	N1-C2-N3	-5.07	120.86	123.90
35	BB	2334	U	C2'-C3'-O3'	5.07	121.81	113.70
35	BB	2718	G	C6-N1-C2	5.07	128.14	125.10
1	AA	130	A	C5-C6-N1	-5.06	115.17	117.70
1	AA	273	U	O4'-C1'-N1	5.06	112.25	108.20
1	AA	463	U	N3-C2-O2	5.06	125.75	122.20
1	AA	541	G	C8-N9-C4	5.06	108.43	106.40
1	AA	1093	A	C6-C5-N7	-5.06	128.75	132.30
35	BB	595	C	N3-C4-N4	5.06	121.55	118.00
35	BB	845	A	O4'-C1'-N9	5.06	112.25	108.20
35	BB	1017	G	N3-C4-N9	5.06	129.04	126.00
35	BB	1056	G	C5'-C4'-C3'	5.06	124.10	116.00
35	BB	1667	G	OP2-P-O3'	5.06	116.34	105.20
35	BB	2042	A	N7-C8-N9	-5.06	111.27	113.80
35	BB	2152	G	C5'-C4'-O4'	5.06	115.18	109.10
35	BB	2251	G	N1-C2-N2	-5.06	111.64	116.20
1	AA	164	G	OP1-P-OP2	-5.06	112.01	119.60
1	AA	580	C	C2-N3-C4	-5.06	117.37	119.90
1	AA	587	G	P-O3'-C3'	5.06	125.78	119.70
1	AA	650	G	N3-C2-N2	5.06	123.44	119.90
1	AA	891	U	N3-C4-O4	5.06	122.94	119.40
1	AA	1017	U	P-O3'-C3'	-5.06	113.62	119.70
1	AA	1064	G	C6-N1-C2	5.06	128.14	125.10
1	AA	1397	C	OP1-P-OP2	-5.06	112.01	119.60
34	BA	54	G	C3'-C2'-C1'	-5.06	97.45	101.50
34	BA	61	G	O4'-C1'-N9	5.06	112.25	108.20
34	BA	84	G	O4'-C1'-N9	5.06	112.25	108.20
35	BB	339	U	P-O3'-C3'	-5.06	113.62	119.70
35	BB	715	A	C6-N1-C2	-5.06	115.56	118.60
35	BB	738	G	C3'-C2'-C1'	5.06	105.55	101.50
35	BB	1696	G	N7-C8-N9	-5.06	110.57	113.10
35	BB	1949	G	O4'-C1'-N9	5.06	112.25	108.20
35	BB	2076	U	C6-N1-C2	-5.06	117.96	121.00
35	BB	2103	C	N1-C2-N3	-5.06	115.66	119.20
35	BB	2284	A	C5-N7-C8	5.06	106.43	103.90
35	BB	2338	C	C5'-C4'-C3'	5.06	124.10	116.00
40	BG	150	TYR	CB-CG-CD2	5.06	124.04	121.00
1	AA	349	A	O4'-C1'-N9	5.06	112.25	108.20
1	AA	396	C	O4'-C1'-N1	5.06	112.25	108.20
35	BB	1413	A	C5-N7-C8	5.06	106.43	103.90
35	BB	2016	U	C3'-C2'-C1'	5.06	105.55	101.50
52	BS	77	ASP	N-CA-CB	5.06	119.71	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	166	U	C2-N3-C4	5.06	130.04	127.00
1	AA	255	G	C6-C5-N7	-5.06	127.36	130.40
1	AA	262	A	C4'-C3'-C2'	-5.06	97.54	102.60
1	AA	1443	C	C2-N1-C1'	5.06	124.37	118.80
4	AD	159	GLU	OE1-CD-OE2	5.06	129.37	123.30
13	AM	55	LEU	CB-CG-CD2	5.06	119.60	111.00
22	AV	21	A	O4'-C1'-N9	5.06	112.25	108.20
35	BB	295	G	C4'-C3'-C2'	-5.06	97.54	102.60
35	BB	311	A	C8-N9-C4	-5.06	103.78	105.80
35	BB	715	A	OP1-P-OP2	-5.06	112.01	119.60
35	BB	965	C	N3-C4-C5	-5.06	119.88	121.90
35	BB	1006	C	C4-C5-C6	5.06	119.93	117.40
35	BB	1440	U	C3'-C2'-C1'	5.06	105.55	101.50
35	BB	2171	A	O4'-C1'-C2'	-5.06	100.74	105.80
35	BB	2311	A	C4-C5-C6	5.06	119.53	117.00
35	BB	2366	A	N3-C4-N9	5.06	131.45	127.40
1	AA	423	G	N1-C2-N3	-5.06	120.87	123.90
1	AA	501	C	N1-C2-O2	5.06	121.93	118.90
1	AA	682	G	C8-N9-C1'	5.06	133.57	127.00
4	AD	24	VAL	O-C-N	-5.06	114.61	122.70
7	AG	64	ALA	CB-CA-C	-5.06	102.51	110.10
35	BB	255	A	C6-C5-N7	-5.06	128.76	132.30
35	BB	309	A	O4'-C1'-N9	5.06	112.25	108.20
35	BB	752	A	O4'-C1'-N9	5.06	112.25	108.20
35	BB	874	G	N1-C6-O6	5.06	122.93	119.90
35	BB	927	A	C2-N3-C4	-5.06	108.07	110.60
35	BB	1329	U	OP1-P-OP2	-5.06	112.01	119.60
35	BB	1651	G	C4-C5-C6	5.06	121.83	118.80
35	BB	1845	G	N3-C4-N9	5.06	129.03	126.00
35	BB	1888	G	C5-C6-O6	-5.06	125.57	128.60
35	BB	2017	U	O4'-C1'-C2'	5.06	112.15	107.60
41	BH	81	ALA	N-CA-CB	5.06	117.18	110.10
1	AA	143	A	O4'-C4'-C3'	5.06	110.14	106.10
1	AA	202	G	C4'-C3'-C2'	-5.06	97.54	102.60
1	AA	497	G	N7-C8-N9	-5.06	110.57	113.10
34	BA	108	A	C4-C5-N7	-5.06	108.17	110.70
35	BB	248	G	C5-N7-C8	5.06	106.83	104.30
35	BB	483	A	C4-C5-C6	5.06	119.53	117.00
35	BB	720	U	P-O3'-C3'	-5.06	113.63	119.70
35	BB	1055	G	C8-N9-C1'	5.06	133.57	127.00
35	BB	1383	A	C2'-C3'-O3'	5.06	121.79	113.70
35	BB	1419	A	C4-C5-C6	5.06	119.53	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	448	A	C8-N9-C4	5.05	107.82	105.80
1	AA	766	A	C4'-C3'-C2'	-5.05	97.55	102.60
1	AA	1029	U	C5'-C4'-O4'	-5.05	103.04	109.10
1	AA	1421	G	C4'-C3'-C2'	-5.05	97.55	102.60
10	AJ	28	THR	CA-CB-CG2	-5.05	105.32	112.40
17	AQ	33	TYR	CG-CD2-CE2	5.05	125.34	121.30
34	BA	101	A	C6-N1-C2	-5.05	115.57	118.60
35	BB	3	U	O4'-C1'-C2'	-5.05	100.75	105.80
35	BB	68	G	C5-N7-C8	5.05	106.83	104.30
35	BB	277	G	C6-N1-C2	5.05	128.13	125.10
35	BB	1558	C	C4-C5-C6	-5.05	114.87	117.40
35	BB	1837	C	C5-C4-N4	5.05	123.74	120.20
35	BB	2417	C	N1-C2-O2	5.05	121.93	118.90
35	BB	2448	A	P-O3'-C3'	5.05	125.77	119.70
35	BB	2478	A	C4-C5-N7	-5.05	108.17	110.70
35	BB	2489	U	O4'-C1'-C2'	5.05	112.15	107.60
35	BB	2684	U	N3-C2-O2	5.05	125.74	122.20
35	BB	2698	U	N3-C4-C5	-5.05	111.57	114.60
35	BB	2863	C	N1-C2-O2	5.05	121.93	118.90
1	AA	799	G	C4-C5-C6	5.05	121.83	118.80
1	AA	1466	C	O4'-C4'-C3'	-5.05	98.95	104.00
35	BB	1072	C	N3-C4-N4	5.05	121.54	118.00
35	BB	1695	G	O5'-P-OP2	5.05	116.76	110.70
35	BB	1808	A	C5-C6-N1	-5.05	115.17	117.70
35	BB	1977	A	N3-C4-C5	-5.05	123.26	126.80
35	BB	2531	A	O4'-C1'-C2'	-5.05	100.75	105.80
35	BB	2902	C	C4'-C3'-C2'	-5.05	97.55	102.60
1	AA	20	U	C5-C4-O4	-5.05	122.87	125.90
1	AA	109	A	C5-N7-C8	-5.05	101.37	103.90
1	AA	755	G	C2-N3-C4	5.05	114.43	111.90
1	AA	1246	A	C5-N7-C8	5.05	106.43	103.90
1	AA	1285	A	C5-C6-N1	-5.05	115.17	117.70
34	BA	98	G	N3-C4-C5	5.05	131.13	128.60
35	BB	224	U	O4'-C1'-N1	5.05	112.24	108.20
35	BB	259	G	C5'-C4'-O4'	5.05	115.16	109.10
35	BB	317	G	N7-C8-N9	-5.05	110.57	113.10
35	BB	343	C	C6-N1-C2	-5.05	118.28	120.30
35	BB	675	A	C6-N1-C2	-5.05	115.57	118.60
35	BB	792	A	C5-N7-C8	5.05	106.43	103.90
35	BB	1328	A	N9-C4-C5	5.05	107.82	105.80
35	BB	1591	A	C2-N3-C4	-5.05	108.07	110.60
35	BB	1805	A	N7-C8-N9	5.05	116.33	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1887	C	C4'-C3'-C2'	-5.05	97.55	102.60
35	BB	1982	U	N3-C4-O4	5.05	122.94	119.40
35	BB	2070	A	N3-C4-C5	5.05	130.34	126.80
35	BB	2146	C	C4-C5-C6	5.05	119.93	117.40
35	BB	2206	C	N1-C2-O2	-5.05	115.87	118.90
35	BB	2721	A	C6-C5-N7	-5.05	128.76	132.30
35	BB	2732	G	O4'-C1'-C2'	5.05	112.15	107.60
35	BB	2759	G	C4-C5-C6	5.05	121.83	118.80
35	BB	2813	A	N7-C8-N9	5.05	116.33	113.80
38	BE	77	ILE	CB-CA-C	-5.05	101.50	111.60
41	BH	11	ASN	CB-CA-C	5.05	120.50	110.40
45	BL	30	THR	N-CA-CB	5.05	119.90	110.30
1	AA	151	A	C5-C6-N6	-5.05	119.66	123.70
1	AA	1089	G	OP1-P-OP2	-5.05	112.03	119.60
1	AA	1183	U	N3-C2-O2	5.05	125.73	122.20
1	AA	1336	C	C5'-C4'-O4'	5.05	115.16	109.10
1	AA	1355	G	C4'-C3'-C2'	-5.05	97.55	102.60
1	AA	1404	C	C5-C6-N1	5.05	123.53	121.00
34	BA	18	G	C4-C5-C6	5.05	121.83	118.80
35	BB	86	G	N3-C4-N9	-5.05	122.97	126.00
35	BB	115	C	N1-C2-O2	5.05	121.93	118.90
35	BB	257	C	C4'-C3'-C2'	-5.05	97.55	102.60
35	BB	350	G	N1-C2-N2	-5.05	111.66	116.20
35	BB	455	C	C6-N1-C1'	-5.05	114.74	120.80
35	BB	497	A	C6-N1-C2	-5.05	115.57	118.60
35	BB	610	C	N3-C4-C5	-5.05	119.88	121.90
35	BB	927	A	N1-C2-N3	5.05	131.82	129.30
35	BB	1105	U	P-O3'-C3'	-5.05	113.64	119.70
35	BB	1260	A	N1-C2-N3	5.05	131.82	129.30
35	BB	1468	U	N1-C2-N3	5.05	117.93	114.90
35	BB	1807	G	C6-N1-C2	-5.05	122.07	125.10
35	BB	2083	G	N3-C4-N9	-5.05	122.97	126.00
35	BB	2239	G	C4-C5-C6	5.05	121.83	118.80
35	BB	2838	G	C5-N7-C8	-5.05	101.78	104.30
1	AA	1310	G	C4'-C3'-C2'	-5.05	97.55	102.60
35	BB	1974	C	C3'-C2'-C1'	5.05	105.54	101.50
35	BB	1989	G	N9-C4-C5	5.05	107.42	105.40
39	BF	134	GLN	N-CA-CB	5.05	119.69	110.60
1	AA	203	G	C5-C6-N1	-5.05	108.98	111.50
1	AA	576	C	C5-C6-N1	5.05	123.52	121.00
1	AA	583	A	C5-C6-N6	-5.05	119.66	123.70
1	AA	606	G	C5-C6-N1	-5.05	108.98	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	823	C	OP2-P-O3'	5.05	116.30	105.20
1	AA	997	U	C5-C6-N1	5.05	125.22	122.70
1	AA	1257	A	N7-C8-N9	-5.05	111.28	113.80
5	AE	115	GLU	N-CA-C	-5.05	97.38	111.00
14	AN	99	SER	N-CA-C	-5.05	97.37	111.00
22	AV	4	C	C4'-C3'-C2'	-5.05	97.55	102.60
35	BB	204	A	P-O3'-C3'	5.05	125.76	119.70
35	BB	283	G	P-O5'-C5'	5.05	128.97	120.90
35	BB	284	U	N3-C4-O4	5.05	122.93	119.40
35	BB	570	G	N3-C2-N2	5.05	123.43	119.90
35	BB	902	C	C5'-C4'-O4'	-5.05	103.04	109.10
35	BB	1097	U	O4'-C1'-N1	5.05	112.24	108.20
35	BB	1312	U	C6-N1-C2	5.05	124.03	121.00
35	BB	1574	C	N3-C2-O2	5.05	125.43	121.90
35	BB	1944	U	C1'-O4'-C4'	5.05	113.94	109.90
35	BB	2150	C	N3-C2-O2	5.05	125.43	121.90
35	BB	2846	G	N7-C8-N9	-5.05	110.58	113.10
1	AA	660	C	P-O5'-C5'	5.04	128.97	120.90
1	AA	773	G	P-O5'-C5'	-5.04	112.83	120.90
7	AG	116	ALA	C-N-CA	5.04	134.31	121.70
35	BB	143	C	C6-N1-C2	-5.04	118.28	120.30
35	BB	751	A	N1-C2-N3	-5.04	126.78	129.30
35	BB	1992	G	N3-C4-N9	-5.04	122.97	126.00
35	BB	2572	A	C6-N1-C2	5.04	121.63	118.60
35	BB	2574	G	C2-N3-C4	-5.04	109.38	111.90
35	BB	2761	A	O5'-C5'-C4'	-5.04	102.11	111.70
1	AA	103	U	C5-C4-O4	-5.04	122.87	125.90
1	AA	237	G	C8-N9-C1'	5.04	133.56	127.00
1	AA	282	A	C5'-C4'-O4'	5.04	115.15	109.10
1	AA	393	A	N3-C4-C5	-5.04	123.27	126.80
1	AA	716	A	C1'-O4'-C4'	5.04	113.93	109.90
1	AA	779	C	N1-C2-N3	5.04	122.73	119.20
1	AA	1506	U	C4'-C3'-C2'	-5.04	97.56	102.60
35	BB	119	A	C4-C5-C6	5.04	119.52	117.00
35	BB	338	G	C8-N9-C4	-5.04	104.38	106.40
35	BB	438	G	C3'-C2'-C1'	-5.04	97.47	101.50
35	BB	585	G	N3-C2-N2	5.04	123.43	119.90
35	BB	653	U	N3-C4-O4	5.04	122.93	119.40
35	BB	696	G	N3-C2-N2	5.04	123.43	119.90
35	BB	748	G	C5'-C4'-O4'	5.04	115.15	109.10
35	BB	787	C	C5'-C4'-C3'	-5.04	107.93	116.00
35	BB	801	G	O4'-C1'-N9	5.04	112.23	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1130	U	C1'-O4'-C4'	5.04	113.93	109.90
35	BB	1968	G	N1-C2-N3	-5.04	120.87	123.90
35	BB	2320	U	N3-C4-O4	5.04	122.93	119.40
35	BB	2588	G	C4-N9-C1'	5.04	133.06	126.50
35	BB	2603	G	C5'-C4'-O4'	5.04	115.15	109.10
35	BB	2766	A	C5'-C4'-O4'	5.04	115.15	109.10
35	BB	2798	U	P-O3'-C3'	-5.04	113.65	119.70
39	BF	134	GLN	O-C-N	5.04	130.77	122.70
1	AA	76	G	N3-C2-N2	5.04	123.43	119.90
1	AA	100	G	P-O5'-C5'	-5.04	112.83	120.90
1	AA	616	G	C5-C6-O6	-5.04	125.58	128.60
1	AA	1264	U	C1'-O4'-C4'	5.04	113.93	109.90
1	AA	1304	G	C8-N9-C4	-5.04	104.38	106.40
1	AA	1374	A	N7-C8-N9	-5.04	111.28	113.80
5	AE	51	LYS	O-C-N	5.04	130.77	122.70
9	AI	7	GLY	N-CA-C	-5.04	100.50	113.10
18	AR	71	ASP	CB-CG-OD1	-5.04	113.76	118.30
35	BB	26	G	N3-C2-N2	5.04	123.43	119.90
35	BB	1135	C	O4'-C4'-C3'	-5.04	98.96	104.00
35	BB	1914	C	P-O3'-C3'	5.04	125.75	119.70
35	BB	2014	A	C8-N9-C4	-5.04	103.78	105.80
35	BB	2293	G	N1-C2-N2	5.04	120.74	116.20
35	BB	2296	U	C6-N1-C2	-5.04	117.97	121.00
35	BB	2491	U	O4'-C1'-C2'	-5.04	100.76	105.80
35	BB	2558	C	C2-N3-C4	5.04	122.42	119.90
1	AA	34	C	C1'-O4'-C4'	5.04	113.93	109.90
1	AA	922	G	N3-C2-N2	5.04	123.43	119.90
1	AA	1020	G	C5'-C4'-O4'	5.04	115.15	109.10
22	AV	27	C	N3-C4-C5	-5.04	119.88	121.90
35	BB	188	G	P-O5'-C5'	-5.04	112.84	120.90
35	BB	244	A	C5-N7-C8	5.04	106.42	103.90
35	BB	402	A	C6-C5-N7	-5.04	128.77	132.30
35	BB	516	C	C2-N3-C4	5.04	122.42	119.90
35	BB	687	C	C5'-C4'-C3'	-5.04	107.94	116.00
35	BB	1331	G	N7-C8-N9	5.04	115.62	113.10
35	BB	1356	G	O4'-C1'-N9	5.04	112.23	108.20
35	BB	1795	C	P-O5'-C5'	5.04	128.96	120.90
35	BB	1804	C	C2-N1-C1'	5.04	124.34	118.80
35	BB	1935	G	N3-C4-C5	-5.04	126.08	128.60
35	BB	2117	A	N1-C6-N6	5.04	121.62	118.60
35	BB	2385	C	O5'-C5'-C4'	-5.04	102.12	111.70
1	AA	45	G	P-O3'-C3'	5.04	125.75	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	323	U	C3'-C2'-C1'	-5.04	97.47	101.50
1	AA	620	C	C5-C4-N4	-5.04	116.67	120.20
1	AA	1260	G	C5-C6-N1	5.04	114.02	111.50
1	AA	1266	G	P-O5'-C5'	-5.04	112.84	120.90
1	AA	1437	A	C1'-O4'-C4'	5.04	113.93	109.90
1	AA	1519	A	N7-C8-N9	5.04	116.32	113.80
4	AD	169	TRP	N-CA-CB	5.04	119.67	110.60
22	AV	11	C	N3-C4-N4	5.04	121.53	118.00
35	BB	1	G	N3-C2-N2	5.04	123.43	119.90
35	BB	232	G	C5-C6-O6	-5.04	125.58	128.60
35	BB	414	C	N1-C2-N3	5.04	122.73	119.20
35	BB	516	C	P-O3'-C3'	-5.04	113.65	119.70
35	BB	677	A	C6-C5-N7	-5.04	128.77	132.30
35	BB	694	U	C2-N1-C1'	5.04	123.75	117.70
35	BB	1381	G	O5'-C5'-C4'	-5.04	102.13	111.70
35	BB	1426	G	N3-C4-N9	5.04	129.02	126.00
35	BB	1640	A	C4-C5-C6	5.04	119.52	117.00
35	BB	1712	U	C6-N1-C2	-5.04	117.98	121.00
35	BB	1924	C	C4'-C3'-C2'	-5.04	97.56	102.60
35	BB	2033	A	C5'-C4'-O4'	5.04	115.15	109.10
35	BB	2359	C	N1-C2-O2	-5.04	115.88	118.90
35	BB	2397	G	O4'-C4'-C3'	-5.04	98.96	104.00
35	BB	2727	A	C4-C5-C6	5.04	119.52	117.00
55	BW	47	VAL	CA-CB-CG2	-5.04	103.34	110.90
1	AA	685	G	C5-C6-O6	-5.04	125.58	128.60
35	BB	770	G	C5-C6-O6	-5.04	125.58	128.60
35	BB	773	U	C4-C5-C6	-5.04	116.68	119.70
35	BB	877	A	N3-C4-N9	-5.04	123.37	127.40
35	BB	1248	G	N3-C2-N2	5.04	123.43	119.90
35	BB	1475	G	O4'-C1'-N9	5.04	112.23	108.20
35	BB	1579	A	C4-C5-C6	5.04	119.52	117.00
35	BB	1677	A	C4-C5-N7	-5.04	108.18	110.70
35	BB	1888	G	C6-N1-C2	5.04	128.12	125.10
39	BF	8	LYS	CA-CB-CG	5.04	124.48	113.40
1	AA	176	C	C6-N1-C1'	-5.04	114.76	120.80
1	AA	334	C	N1-C2-N3	5.04	122.72	119.20
1	AA	478	A	C2-N3-C4	-5.04	108.08	110.60
1	AA	845	A	C4-C5-C6	5.04	119.52	117.00
1	AA	902	G	C5-C6-N1	-5.04	108.98	111.50
1	AA	1132	C	OP1-P-OP2	-5.04	112.05	119.60
1	AA	1320	C	C4-C5-C6	5.04	119.92	117.40
16	AP	40	ASN	N-CA-C	-5.04	97.41	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	AS	9	PHE	CD1-CE1-CZ	-5.04	114.06	120.10
27	B2	29	ARG	NE-CZ-NH2	5.04	122.82	120.30
34	BA	27	C	C2-N1-C1'	5.04	124.34	118.80
35	BB	118	A	N7-C8-N9	-5.04	111.28	113.80
35	BB	266	G	C4'-C3'-C2'	-5.04	97.56	102.60
35	BB	586	A	C4-C5-C6	5.04	119.52	117.00
35	BB	1016	G	C4'-C3'-C2'	-5.04	97.56	102.60
35	BB	1059	G	N3-C2-N2	5.04	123.42	119.90
35	BB	1578	U	P-O3'-C3'	5.04	125.74	119.70
35	BB	2113	U	C5-C4-O4	-5.04	122.88	125.90
35	BB	2126	A	C4-C5-C6	5.04	119.52	117.00
35	BB	2232	C	O4'-C1'-N1	5.04	112.23	108.20
35	BB	2289	G	C4-N9-C1'	5.04	133.05	126.50
35	BB	2392	A	C8-N9-C4	-5.04	103.78	105.80
35	BB	2555	U	C4'-C3'-C2'	-5.04	97.56	102.60
35	BB	2732	G	C4-C5-C6	5.04	121.82	118.80
40	BG	129	GLU	N-CA-CB	5.04	119.66	110.60
1	AA	231	U	N1-C2-N3	-5.03	111.88	114.90
1	AA	295	C	N1-C2-N3	-5.03	115.68	119.20
1	AA	858	G	C5-C6-O6	-5.03	125.58	128.60
1	AA	1032	G	C1'-O4'-C4'	-5.03	105.87	109.90
1	AA	1046	A	C2-N3-C4	-5.03	108.08	110.60
1	AA	1076	U	N3-C2-O2	5.03	125.72	122.20
11	AK	121	ARG	NE-CZ-NH2	-5.03	117.78	120.30
35	BB	60	G	N3-C4-C5	-5.03	126.08	128.60
35	BB	69	C	N3-C4-N4	5.03	121.52	118.00
35	BB	321	U	O4'-C1'-N1	5.03	112.23	108.20
35	BB	577	G	C4-C5-N7	5.03	112.81	110.80
35	BB	699	A	P-O3'-C3'	5.03	125.74	119.70
35	BB	839	U	C6-N1-C2	5.03	124.02	121.00
35	BB	844	A	C5-C6-N6	-5.03	119.67	123.70
35	BB	942	G	C8-N9-C1'	5.03	133.54	127.00
35	BB	966	G	N9-C4-C5	5.03	107.41	105.40
35	BB	1023	U	N3-C4-O4	5.03	122.92	119.40
35	BB	1286	A	C8-N9-C4	5.03	107.81	105.80
35	BB	1382	G	C4'-C3'-C2'	-5.03	97.57	102.60
35	BB	1509	A	P-O5'-C5'	-5.03	112.85	120.90
35	BB	1916	A	C4-C5-N7	-5.03	108.18	110.70
35	BB	2116	G	C8-N9-C4	-5.03	104.39	106.40
1	AA	561	U	C2-N1-C1'	5.03	123.74	117.70
1	AA	867	G	OP1-P-OP2	-5.03	112.05	119.60
1	AA	970	C	C1'-O4'-C4'	-5.03	105.87	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	1441	G	C5-C6-N1	-5.03	108.98	111.50
35	BB	2526	G	O4'-C1'-N9	5.03	112.22	108.20
35	BB	2693	G	C5-C6-N1	-5.03	108.98	111.50
1	AA	305	G	C5-N7-C8	5.03	106.81	104.30
1	AA	357	G	N1-C2-N2	5.03	120.73	116.20
1	AA	387	U	P-O5'-C5'	-5.03	112.85	120.90
1	AA	854	U	P-O3'-C3'	-5.03	113.66	119.70
1	AA	1393	U	OP2-P-O3'	5.03	116.27	105.20
1	AA	1457	G	P-O3'-C3'	-5.03	113.67	119.70
5	AE	28	ARG	N-CA-CB	5.03	119.66	110.60
35	BB	252	G	C3'-C2'-C1'	5.03	105.52	101.50
35	BB	631	A	N1-C2-N3	5.03	131.81	129.30
35	BB	771	G	C4-C5-C6	5.03	121.82	118.80
35	BB	1039	A	C6-N1-C2	5.03	121.62	118.60
35	BB	1143	A	N3-C4-N9	5.03	131.42	127.40
35	BB	1179	G	C5'-C4'-O4'	5.03	115.14	109.10
35	BB	1916	A	C5-C6-N1	-5.03	115.19	117.70
35	BB	2052	A	C4'-C3'-C2'	-5.03	97.57	102.60
35	BB	2078	C	C6-N1-C2	-5.03	118.29	120.30
35	BB	2502	G	C4-C5-C6	5.03	121.82	118.80
35	BB	2513	A	C5-N7-C8	5.03	106.42	103.90
35	BB	2541	A	C5-N7-C8	5.03	106.42	103.90
1	AA	18	C	O4'-C4'-C3'	-5.03	98.97	104.00
1	AA	431	A	N7-C8-N9	-5.03	111.28	113.80
1	AA	1170	A	N3-C4-C5	-5.03	123.28	126.80
35	BB	717	C	P-O3'-C3'	-5.03	113.67	119.70
35	BB	988	A	C5-C6-N6	-5.03	119.68	123.70
35	BB	2232	C	C1'-O4'-C4'	5.03	113.92	109.90
35	BB	2320	U	O4'-C1'-N1	5.03	112.22	108.20
35	BB	2579	C	C6-N1-C2	-5.03	118.29	120.30
1	AA	370	C	N3-C4-C5	-5.03	119.89	121.90
1	AA	575	G	N7-C8-N9	-5.03	110.59	113.10
1	AA	808	C	C5-C6-N1	5.03	123.51	121.00
34	BA	114	C	N1-C2-O2	5.03	121.92	118.90
35	BB	7	G	N9-C4-C5	-5.03	103.39	105.40
35	BB	237	C	C2-N1-C1'	5.03	124.33	118.80
35	BB	250	G	C4-N9-C1'	-5.03	119.96	126.50
35	BB	1196	C	P-O3'-C3'	-5.03	113.67	119.70
35	BB	1286	A	P-O5'-C5'	-5.03	112.86	120.90
35	BB	1570	A	C5-C6-N1	5.03	120.21	117.70
35	BB	2137	U	P-O5'-C5'	5.03	128.94	120.90
35	BB	2496	C	O4'-C1'-N1	5.03	112.22	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	2685	G	N1-C6-O6	5.03	122.92	119.90
35	BB	2764	A	C4-C5-N7	-5.03	108.19	110.70
35	BB	2780	G	N3-C4-N9	5.03	129.02	126.00
35	BB	2887	A	C5-N7-C8	5.03	106.41	103.90
1	AA	151	A	O4'-C1'-N9	5.03	112.22	108.20
1	AA	666	G	C6-N1-C2	5.03	128.12	125.10
1	AA	937	A	C6-C5-N7	-5.03	128.78	132.30
22	AV	69	G	N7-C8-N9	-5.03	110.59	113.10
34	BA	23	G	C4-C5-C6	5.03	121.81	118.80
35	BB	12	U	C2-N3-C4	-5.03	123.98	127.00
35	BB	42	A	C5-C6-N6	-5.03	119.68	123.70
35	BB	142	A	C5-N7-C8	5.03	106.41	103.90
35	BB	417	C	P-O3'-C3'	-5.03	113.67	119.70
35	BB	463	G	P-O3'-C3'	-5.03	113.67	119.70
35	BB	621	A	C4-C5-C6	5.03	119.51	117.00
35	BB	833	A	C4-C5-N7	-5.03	108.19	110.70
35	BB	1060	U	C6-N1-C2	-5.03	117.98	121.00
35	BB	1193	G	C8-N9-C4	-5.03	104.39	106.40
35	BB	1259	G	C4-C5-C6	5.03	121.81	118.80
35	BB	1336	A	C5-C6-N6	-5.03	119.68	123.70
35	BB	1345	C	C5-C4-N4	-5.03	116.68	120.20
35	BB	1792	G	C4-N9-C1'	-5.03	119.97	126.50
35	BB	2289	G	P-O3'-C3'	-5.03	113.67	119.70
35	BB	2482	A	C5'-C4'-O4'	5.03	115.13	109.10
35	BB	2510	C	P-O3'-C3'	5.03	125.73	119.70
35	BB	2823	A	O4'-C1'-N9	5.03	112.22	108.20
1	AA	375	U	OP1-P-OP2	-5.02	112.06	119.60
1	AA	555	U	OP2-P-O3'	5.02	116.25	105.20
1	AA	1453	G	C6-C5-N7	-5.02	127.39	130.40
35	BB	5	A	C8-N9-C4	-5.02	103.79	105.80
35	BB	500	G	C8-N9-C4	5.02	108.41	106.40
35	BB	517	C	O4'-C4'-C3'	-5.02	98.98	104.00
35	BB	880	G	P-O5'-C5'	-5.02	112.86	120.90
35	BB	1322	A	C6-C5-N7	-5.02	128.78	132.30
35	BB	1394	U	P-O3'-C3'	-5.02	113.67	119.70
35	BB	1430	G	C5-C6-O6	-5.02	125.58	128.60
35	BB	2420	C	C5-C4-N4	-5.02	116.68	120.20
1	AA	373	A	N3-C4-N9	5.02	131.42	127.40
1	AA	659	U	O5'-P-OP1	-5.02	101.18	105.70
1	AA	670	G	N7-C8-N9	-5.02	110.59	113.10
1	AA	682	G	N1-C2-N2	-5.02	111.68	116.20
1	AA	785	G	N3-C2-N2	5.02	123.42	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1074	G	C4-C5-C6	5.02	121.81	118.80
1	AA	1352	C	OP1-P-OP2	-5.02	112.07	119.60
14	AN	23	ARG	NE-CZ-NH1	5.02	122.81	120.30
22	AV	5	A	C5-C6-N1	-5.02	115.19	117.70
35	BB	137	U	N1-C2-O2	-5.02	119.28	122.80
35	BB	141	G	C4'-C3'-C2'	-5.02	97.58	102.60
35	BB	152	A	C4-C5-N7	-5.02	108.19	110.70
35	BB	484	C	C6-N1-C1'	5.02	126.83	120.80
35	BB	578	G	C6-N1-C2	5.02	128.11	125.10
35	BB	969	G	C4-C5-N7	5.02	112.81	110.80
35	BB	1233	C	N1-C2-O2	-5.02	115.89	118.90
35	BB	1938	A	C5-C6-N6	-5.02	119.68	123.70
1	AA	183	C	P-O3'-C3'	5.02	125.72	119.70
1	AA	206	C	C2-N3-C4	5.02	122.41	119.90
1	AA	681	A	N7-C8-N9	-5.02	111.29	113.80
35	BB	449	A	O4'-C1'-N9	5.02	112.22	108.20
35	BB	724	U	OP1-P-OP2	-5.02	112.07	119.60
35	BB	930	G	C5'-C4'-O4'	5.02	115.12	109.10
35	BB	1102	C	N1-C2-N3	-5.02	115.69	119.20
35	BB	1141	U	C5-C6-N1	-5.02	120.19	122.70
35	BB	1385	A	C6-N1-C2	5.02	121.61	118.60
35	BB	2120	G	N3-C4-C5	5.02	131.11	128.60
35	BB	2698	U	C6-N1-C2	-5.02	117.99	121.00
1	AA	335	C	C6-N1-C2	-5.02	118.29	120.30
1	AA	475	C	C2-N1-C1'	5.02	124.32	118.80
1	AA	877	G	O3'-P-O5'	-5.02	94.46	104.00
1	AA	1527	U	O4'-C1'-N1	5.02	112.22	108.20
35	BB	153	U	C1'-O4'-C4'	5.02	113.92	109.90
35	BB	233	A	C4-C5-N7	-5.02	108.19	110.70
35	BB	332	A	N9-C4-C5	5.02	107.81	105.80
35	BB	701	G	N1-C2-N2	-5.02	111.68	116.20
35	BB	885	C	C2-N3-C4	5.02	122.41	119.90
35	BB	1085	A	N1-C2-N3	-5.02	126.79	129.30
35	BB	1138	G	N1-C2-N3	-5.02	120.89	123.90
35	BB	1701	A	O4'-C1'-N9	5.02	112.22	108.20
35	BB	2064	C	C5-C6-N1	5.02	123.51	121.00
35	BB	2728	U	C3'-C2'-C1'	5.02	105.52	101.50
52	BS	57	ASN	N-CA-CB	5.02	119.64	110.60
1	AA	49	U	C6-N1-C2	-5.02	117.99	121.00
1	AA	363	A	N3-C4-C5	-5.02	123.29	126.80
1	AA	378	G	C6-C5-N7	-5.02	127.39	130.40
1	AA	483	C	C5-C6-N1	5.02	123.51	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	536	C	C5-C4-N4	-5.02	116.69	120.20
1	AA	677	U	N1-C2-O2	-5.02	119.29	122.80
1	AA	678	U	N3-C2-O2	-5.02	118.69	122.20
1	AA	1015	G	O5'-P-OP1	5.02	116.72	110.70
35	BB	35	G	C4-N9-C1'	5.02	133.02	126.50
35	BB	607	U	C4'-C3'-C2'	-5.02	97.58	102.60
35	BB	704	G	C3'-C2'-C1'	5.02	105.51	101.50
35	BB	829	A	N3-C4-N9	5.02	131.41	127.40
35	BB	882	G	C6-C5-N7	-5.02	127.39	130.40
35	BB	1695	G	N3-C4-C5	-5.02	126.09	128.60
35	BB	2230	G	N3-C4-C5	5.02	131.11	128.60
35	BB	2245	U	N3-C4-C5	5.02	117.61	114.60
1	AA	191	G	N1-C2-N3	-5.02	120.89	123.90
1	AA	246	A	O4'-C1'-N9	5.02	112.21	108.20
1	AA	1170	A	OP1-P-OP2	-5.02	112.08	119.60
1	AA	1417	G	P-O3'-C3'	-5.02	113.68	119.70
34	BA	77	U	C3'-C2'-C1'	-5.02	97.49	101.50
34	BA	112	G	N9-C4-C5	5.02	107.41	105.40
35	BB	589	U	N3-C2-O2	5.02	125.71	122.20
35	BB	650	C	C6-N1-C2	-5.02	118.29	120.30
35	BB	816	C	C2-N3-C4	5.02	122.41	119.90
35	BB	854	C	N1-C1'-C2'	-5.02	106.48	112.00
35	BB	945	A	C6-N1-C2	-5.02	115.59	118.60
35	BB	1620	G	O4'-C1'-N9	5.02	112.21	108.20
35	BB	2038	G	C6-C5-N7	-5.02	127.39	130.40
1	AA	34	C	N3-C4-C5	-5.01	119.89	121.90
1	AA	189	A	N3-C4-C5	-5.01	123.29	126.80
1	AA	482	A	C5-C6-N1	-5.01	115.19	117.70
1	AA	551	U	N3-C2-O2	5.01	125.71	122.20
2	AB	15	PHE	N-CA-CB	5.01	119.63	110.60
34	BA	106	G	C4-C5-N7	5.01	112.81	110.80
35	BB	926	G	P-O5'-C5'	5.01	128.92	120.90
35	BB	989	G	C5'-C4'-C3'	-5.01	107.98	116.00
35	BB	1133	A	N7-C8-N9	-5.01	111.29	113.80
35	BB	1298	C	N3-C4-N4	5.01	121.51	118.00
35	BB	1515	A	C6-N1-C2	5.01	121.61	118.60
35	BB	1844	C	C6-N1-C1'	-5.01	114.78	120.80
35	BB	1922	G	N1-C2-N3	-5.01	120.89	123.90
35	BB	2067	G	C5-N7-C8	-5.01	101.79	104.30
35	BB	2148	G	N1-C2-N2	5.01	120.71	116.20
35	BB	2795	C	C2-N3-C4	5.01	122.41	119.90
41	BH	82	SER	C-N-CA	5.01	134.24	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	83	C	O4'-C1'-N1	5.01	112.21	108.20
35	BB	206	U	N1-C2-N3	-5.01	111.89	114.90
35	BB	612	G	N3-C4-C5	-5.01	126.09	128.60
35	BB	1254	A	C2'-C3'-O3'	5.01	121.72	113.70
35	BB	1472	C	N1-C2-O2	5.01	121.91	118.90
35	BB	1587	G	N9-C1'-C2'	5.01	120.52	114.00
35	BB	1624	U	C5-C6-N1	5.01	125.21	122.70
35	BB	1979	U	C5-C6-N1	5.01	125.21	122.70
35	BB	2328	A	N3-C4-N9	5.01	131.41	127.40
35	BB	2719	G	C8-N9-C4	-5.01	104.39	106.40
1	AA	41	G	C1'-O4'-C4'	-5.01	105.89	109.90
1	AA	211	G	C5-N7-C8	5.01	106.81	104.30
1	AA	659	U	N3-C4-O4	5.01	122.91	119.40
1	AA	1241	G	N3-C4-C5	-5.01	126.09	128.60
1	AA	1300	G	C2-N3-C4	-5.01	109.39	111.90
1	AA	1521	C	C2-N3-C4	5.01	122.41	119.90
12	AL	82	ARG	CD-NE-CZ	5.01	130.62	123.60
34	BA	14	U	C2-N1-C1'	5.01	123.71	117.70
34	BA	23	G	N1-C2-N3	-5.01	120.89	123.90
35	BB	60	G	N3-C2-N2	5.01	123.41	119.90
35	BB	242	G	N9-C4-C5	-5.01	103.39	105.40
35	BB	683	U	N3-C4-C5	-5.01	111.59	114.60
35	BB	879	G	C5-N7-C8	-5.01	101.79	104.30
35	BB	1035	U	C4'-C3'-C2'	-5.01	97.59	102.60
35	BB	1060	U	N3-C2-O2	-5.01	118.69	122.20
35	BB	1191	G	C4-C5-C6	5.01	121.81	118.80
35	BB	1236	G	N1-C2-N3	-5.01	120.89	123.90
35	BB	1279	G	N1-C2-N3	-5.01	120.89	123.90
35	BB	1353	A	C6-C5-N7	-5.01	128.79	132.30
35	BB	1639	C	N3-C4-N4	5.01	121.51	118.00
35	BB	1697	G	C4-C5-C6	5.01	121.81	118.80
35	BB	1719	G	N1-C2-N3	-5.01	120.89	123.90
35	BB	2147	A	O4'-C1'-C2'	5.01	112.11	107.60
35	BB	2548	U	N1-C2-O2	-5.01	119.29	122.80
41	BH	31	VAL	CA-CB-CG2	-5.01	103.38	110.90
41	BH	76	GLU	C-N-CA	5.01	134.23	121.70
1	AA	207	C	C4'-C3'-C2'	-5.01	97.59	102.60
1	AA	873	A	N9-C4-C5	5.01	107.80	105.80
1	AA	1363	A	O4'-C1'-N9	5.01	112.21	108.20
28	B3	16	ARG	NE-CZ-NH2	-5.01	117.80	120.30
35	BB	2	G	C2-N3-C4	-5.01	109.39	111.90
35	BB	325	G	C5-C6-O6	-5.01	125.59	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	543	G	P-O5'-C5'	-5.01	112.89	120.90
35	BB	841	G	C4'-C3'-C2'	-5.01	97.59	102.60
35	BB	941	A	C4-C5-N7	-5.01	108.19	110.70
35	BB	974	G	C4-N9-C1'	5.01	133.01	126.50
35	BB	1450	G	N3-C4-C5	5.01	131.10	128.60
35	BB	2780	G	C8-N9-C4	5.01	108.40	106.40
41	BH	47	PHE	CB-CG-CD1	-5.01	117.29	120.80
45	BL	61	LEU	CB-CG-CD2	5.01	119.52	111.00
1	AA	462	G	P-O3'-C3'	5.01	125.71	119.70
1	AA	719	C	O4'-C1'-N1	5.01	112.21	108.20
1	AA	741	G	N1-C2-N3	-5.01	120.89	123.90
1	AA	770	C	N1-C2-N3	-5.01	115.69	119.20
20	AT	24	ARG	NH1-CZ-NH2	5.01	124.91	119.40
35	BB	1148	U	P-O3'-C3'	-5.01	113.69	119.70
35	BB	1648	U	C6-N1-C2	5.01	124.00	121.00
35	BB	1987	A	C5-C6-N6	-5.01	119.69	123.70
35	BB	2799	A	C4-C5-C6	5.01	119.50	117.00
1	AA	182	A	C3'-C2'-C1'	5.01	105.51	101.50
1	AA	449	G	N3-C2-N2	5.01	123.41	119.90
1	AA	888	G	C5-N7-C8	5.01	106.80	104.30
1	AA	924	C	N3-C4-N4	5.01	121.50	118.00
1	AA	1229	A	O4'-C1'-N9	5.01	112.20	108.20
1	AA	1471	U	OP1-P-OP2	-5.01	112.09	119.60
10	AJ	59	LYS	CA-CB-CG	5.01	124.42	113.40
35	BB	91	A	C5'-C4'-O4'	5.01	115.11	109.10
35	BB	143	C	O3'-P-O5'	-5.01	94.49	104.00
35	BB	275	C	N3-C4-N4	5.01	121.50	118.00
35	BB	818	G	C8-N9-C1'	-5.01	120.49	127.00
35	BB	1221	C	C6-N1-C2	5.01	122.30	120.30
35	BB	1299	G	C8-N9-C4	-5.01	104.40	106.40
35	BB	1486	U	P-O5'-C5'	5.01	128.91	120.90
35	BB	1687	G	C4-C5-N7	5.01	112.80	110.80
35	BB	1744	A	C8-N9-C4	-5.01	103.80	105.80
35	BB	1797	G	N1-C2-N2	5.01	120.71	116.20
35	BB	1938	A	C4-C5-C6	5.01	119.50	117.00
35	BB	1956	U	C2-N3-C4	5.01	130.00	127.00
35	BB	2186	G	N7-C8-N9	5.01	115.60	113.10
35	BB	2610	C	C5-C6-N1	5.01	123.50	121.00
35	BB	2825	G	C8-N9-C4	5.01	108.40	106.40
43	BJ	129	GLU	O-C-N	-5.01	114.69	122.70
1	AA	575	G	C2-N3-C4	5.00	114.40	111.90
1	AA	745	G	C5'-C4'-C3'	-5.00	107.99	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	144	A	N1-C2-N3	-5.00	126.80	129.30
35	BB	305	C	N3-C2-O2	-5.00	118.40	121.90
35	BB	569	U	C6-N1-C2	-5.00	118.00	121.00
35	BB	1444	G	C4-C5-C6	5.00	121.80	118.80
35	BB	1752	C	P-O5'-C5'	5.00	128.91	120.90
35	BB	2392	A	C6-N1-C2	5.00	121.60	118.60
35	BB	2455	G	O5'-P-OP1	-5.00	101.20	105.70
35	BB	2589	A	C5-C6-N6	-5.00	119.70	123.70
54	BU	81	ARG	NE-CZ-NH1	-5.00	117.80	120.30
1	AA	21	G	OP1-P-OP2	-5.00	112.10	119.60
1	AA	38	G	N9-C4-C5	-5.00	103.40	105.40
1	AA	113	G	C4-C5-N7	5.00	112.80	110.80
1	AA	208	U	N1-C2-O2	-5.00	119.30	122.80
1	AA	633	G	N1-C2-N3	-5.00	120.90	123.90
1	AA	699	C	O4'-C1'-C2'	-5.00	100.80	105.80
1	AA	740	U	C5-C6-N1	5.00	125.20	122.70
1	AA	1000	A	C5-N7-C8	5.00	106.40	103.90
20	AT	65	LEU	CB-CG-CD1	5.00	119.50	111.00
29	B4	43	ARG	NE-CZ-NH1	5.00	122.80	120.30
30	B5	65	LEU	CB-CG-CD2	-5.00	102.50	111.00
34	BA	98	G	C6-N1-C2	5.00	128.10	125.10
35	BB	28	A	N1-C6-N6	5.00	121.60	118.60
35	BB	122	G	P-O5'-C5'	5.00	128.91	120.90
35	BB	213	A	O4'-C4'-C3'	-5.00	99.00	104.00
35	BB	461	C	C5-C4-N4	-5.00	116.70	120.20
35	BB	523	C	C2-N3-C4	5.00	122.40	119.90
35	BB	536	G	C4-N9-C1'	-5.00	120.00	126.50
35	BB	897	C	C3'-C2'-C1'	5.00	105.50	101.50
35	BB	1114	C	O5'-C5'-C4'	-5.00	102.19	111.70
35	BB	1248	G	OP1-P-OP2	-5.00	112.09	119.60
35	BB	1512	C	N1-C2-O2	-5.00	115.90	118.90
35	BB	1516	G	C5-C6-O6	-5.00	125.60	128.60
35	BB	1732	C	C5-C6-N1	5.00	123.50	121.00
35	BB	1732	C	O4'-C4'-C3'	-5.00	99.00	104.00
35	BB	1953	A	C5-C6-N6	-5.00	119.70	123.70
35	BB	2419	U	C3'-C2'-C1'	5.00	105.50	101.50
35	BB	2526	G	N7-C8-N9	-5.00	110.60	113.10
38	BE	187	VAL	CG1-CB-CG2	5.00	118.91	110.90
41	BH	49	ALA	CB-CA-C	-5.00	102.59	110.10
1	AA	651	C	C2-N3-C4	-5.00	117.40	119.90
1	AA	1004	A	C5'-C4'-C3'	5.00	124.00	116.00
1	AA	1061	G	C4-C5-C6	5.00	121.80	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1304	G	C4-C5-C6	-5.00	115.80	118.80
1	AA	1308	U	C1'-O4'-C4'	5.00	113.90	109.90
13	AM	11	HIS	N-CA-CB	5.00	119.60	110.60
21	AU	16	ARG	NE-CZ-NH2	-5.00	117.80	120.30
23	AX	17	C	O4'-C1'-N1	5.00	112.20	108.20
25	B0	68	ALA	O-C-N	5.00	130.70	122.70
35	BB	223	A	N9-C4-C5	-5.00	103.80	105.80
35	BB	581	C	C1'-O4'-C4'	5.00	113.90	109.90
35	BB	1000	A	C4-C5-C6	5.00	119.50	117.00
35	BB	1132	U	C2-N3-C4	5.00	130.00	127.00
35	BB	1248	G	N3-C4-N9	5.00	129.00	126.00
35	BB	1371	G	N7-C8-N9	5.00	115.60	113.10
35	BB	2124	G	C5'-C4'-C3'	5.00	124.00	116.00
35	BB	2609	U	C1'-O4'-C4'	-5.00	105.90	109.90

There are no chirality outliers.

All (2342) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	100	G	Sidechain
1	AA	1001	C	Sidechain
1	AA	1003	G	Sidechain
1	AA	1005	A	Sidechain
1	AA	1006	G	Sidechain
1	AA	1007	U	Sidechain
1	AA	1008	U	Sidechain
1	AA	101	A	Sidechain
1	AA	1010	U	Sidechain
1	AA	1011	C	Sidechain
1	AA	1012	A	Sidechain
1	AA	1013	G	Sidechain
1	AA	1014	A	Sidechain
1	AA	1015	G	Sidechain
1	AA	1016	A	Sidechain
1	AA	1018	G	Sidechain
1	AA	1019	A	Sidechain
1	AA	1024	G	Sidechain
1	AA	1025	U	Sidechain
1	AA	1026	G	Sidechain
1	AA	1029	U	Sidechain
1	AA	103	U	Sidechain
1	AA	1031	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1035	A	Sidechain
1	AA	1039	G	Sidechain
1	AA	1042	A	Sidechain
1	AA	1044	A	Sidechain
1	AA	1046	A	Sidechain
1	AA	1047	G	Sidechain
1	AA	1048	G	Sidechain
1	AA	1049	U	Sidechain
1	AA	1050	G	Sidechain
1	AA	1053	G	Sidechain
1	AA	1055	A	Sidechain
1	AA	1056	U	Sidechain
1	AA	1058	G	Sidechain
1	AA	1059	C	Sidechain
1	AA	106	C	Sidechain
1	AA	1060	U	Sidechain
1	AA	1061	G	Sidechain
1	AA	1062	U	Sidechain
1	AA	1065	U	Sidechain
1	AA	1069	C	Sidechain
1	AA	107	G	Sidechain
1	AA	1070	U	Sidechain
1	AA	1071	C	Sidechain
1	AA	1073	U	Sidechain
1	AA	1075	U	Sidechain
1	AA	1076	U	Sidechain
1	AA	1077	G	Sidechain
1	AA	1080	A	Sidechain
1	AA	1082	A	Sidechain
1	AA	1084	G	Sidechain
1	AA	1085	U	Sidechain
1	AA	1086	U	Sidechain
1	AA	1087	G	Sidechain
1	AA	1089	G	Sidechain
1	AA	109	A	Sidechain
1	AA	1091	U	Sidechain
1	AA	1092	A	Sidechain
1	AA	1094	G	Sidechain
1	AA	1097	C	Sidechain
1	AA	1099	G	Sidechain
1	AA	11	G	Sidechain
1	AA	1101	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1104	G	Sidechain
1	AA	1106	G	Sidechain
1	AA	1108	G	Sidechain
1	AA	111	G	Sidechain
1	AA	1114	C	Sidechain
1	AA	1117	A	Sidechain
1	AA	1118	U	Sidechain
1	AA	1119	C	Sidechain
1	AA	112	G	Sidechain
1	AA	1122	U	Sidechain
1	AA	1124	G	Sidechain
1	AA	1125	U	Sidechain
1	AA	1128	C	Sidechain
1	AA	1129	C	Sidechain
1	AA	1130	A	Sidechain
1	AA	1131	G	Sidechain
1	AA	1132	C	Sidechain
1	AA	1135	U	Sidechain
1	AA	1136	C	Sidechain
1	AA	1139	G	Sidechain
1	AA	114	U	Sidechain
1	AA	1143	G	Sidechain
1	AA	1144	G	Sidechain
1	AA	1147	C	Sidechain
1	AA	115	G	Sidechain
1	AA	1150	A	Sidechain
1	AA	1151	A	Sidechain
1	AA	1152	A	Sidechain
1	AA	1153	G	Sidechain
1	AA	1156	G	Sidechain
1	AA	1158	C	Sidechain
1	AA	1161	C	Sidechain
1	AA	1165	U	Sidechain
1	AA	1166	G	Sidechain
1	AA	117	G	Sidechain
1	AA	1171	A	Sidechain
1	AA	1172	C	Sidechain
1	AA	1173	U	Sidechain
1	AA	1177	G	Sidechain
1	AA	1178	G	Sidechain
1	AA	118	U	Sidechain
1	AA	1180	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1181	G	Sidechain
1	AA	1185	G	Sidechain
1	AA	1187	G	Sidechain
1	AA	119	A	Sidechain
1	AA	1190	G	Sidechain
1	AA	1192	C	Sidechain
1	AA	1193	G	Sidechain
1	AA	1195	C	Sidechain
1	AA	12	U	Sidechain
1	AA	1200	C	Sidechain
1	AA	1203	C	Sidechain
1	AA	1205	U	Sidechain
1	AA	1206	G	Sidechain
1	AA	1207	G	Sidechain
1	AA	1208	C	Sidechain
1	AA	1211	U	Sidechain
1	AA	1216	A	Sidechain
1	AA	1218	C	Sidechain
1	AA	1219	A	Sidechain
1	AA	122	G	Sidechain
1	AA	1221	G	Sidechain
1	AA	1222	G	Sidechain
1	AA	1224	U	Sidechain
1	AA	1225	A	Sidechain
1	AA	1226	C	Sidechain
1	AA	1227	A	Sidechain
1	AA	123	U	Sidechain
1	AA	1231	G	Sidechain
1	AA	1236	A	Sidechain
1	AA	1237	C	Sidechain
1	AA	1240	U	Sidechain
1	AA	1244	G	Sidechain
1	AA	1246	A	Sidechain
1	AA	1248	A	Sidechain
1	AA	1250	A	Sidechain
1	AA	1252	A	Sidechain
1	AA	1258	G	Sidechain
1	AA	1259	C	Sidechain
1	AA	1260	G	Sidechain
1	AA	1261	A	Sidechain
1	AA	1267	C	Sidechain
1	AA	1269	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1272	G	Sidechain
1	AA	1274	A	Sidechain
1	AA	1276	G	Sidechain
1	AA	1277	C	Sidechain
1	AA	1278	G	Sidechain
1	AA	1279	G	Sidechain
1	AA	128	G	Sidechain
1	AA	1280	A	Sidechain
1	AA	1282	C	Sidechain
1	AA	1283	U	Sidechain
1	AA	1284	C	Sidechain
1	AA	1287	A	Sidechain
1	AA	1289	A	Sidechain
1	AA	1291	U	Sidechain
1	AA	1292	G	Sidechain
1	AA	1293	C	Sidechain
1	AA	1294	G	Sidechain
1	AA	1295	U	Sidechain
1	AA	1299	A	Sidechain
1	AA	13	U	Sidechain
1	AA	130	A	Sidechain
1	AA	1300	G	Sidechain
1	AA	1302	C	Sidechain
1	AA	1304	G	Sidechain
1	AA	1305	G	Sidechain
1	AA	1307	U	Sidechain
1	AA	1311	A	Sidechain
1	AA	1312	G	Sidechain
1	AA	1319	A	Sidechain
1	AA	1320	C	Sidechain
1	AA	1323	G	Sidechain
1	AA	1325	C	Sidechain
1	AA	1327	C	Sidechain
1	AA	133	U	Sidechain
1	AA	1330	U	Sidechain
1	AA	1331	G	Sidechain
1	AA	1334	G	Sidechain
1	AA	1335	U	Sidechain
1	AA	1337	G	Sidechain
1	AA	1339	A	Sidechain
1	AA	134	G	Sidechain
1	AA	1340	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1344	C	Sidechain
1	AA	1345	U	Sidechain
1	AA	1346	A	Sidechain
1	AA	1347	G	Sidechain
1	AA	1348	U	Sidechain
1	AA	1349	A	Sidechain
1	AA	1353	G	Sidechain
1	AA	1354	U	Sidechain
1	AA	1355	G	Sidechain
1	AA	136	C	Sidechain
1	AA	1360	A	Sidechain
1	AA	1363	A	Sidechain
1	AA	1365	G	Sidechain
1	AA	137	U	Sidechain
1	AA	1370	G	Sidechain
1	AA	1371	G	Sidechain
1	AA	1373	G	Sidechain
1	AA	1374	A	Sidechain
1	AA	1375	A	Sidechain
1	AA	1376	U	Sidechain
1	AA	1378	C	Sidechain
1	AA	1379	G	Sidechain
1	AA	1383	C	Sidechain
1	AA	1385	G	Sidechain
1	AA	1386	G	Sidechain
1	AA	1387	G	Sidechain
1	AA	1388	C	Sidechain
1	AA	1394	A	Sidechain
1	AA	1399	C	Sidechain
1	AA	14	U	Sidechain
1	AA	1401	G	Sidechain
1	AA	1403	C	Sidechain
1	AA	1404	C	Sidechain
1	AA	1413	A	Sidechain
1	AA	1415	G	Sidechain
1	AA	1418	A	Sidechain
1	AA	142	G	Sidechain
1	AA	1422	G	Sidechain
1	AA	1423	G	Sidechain
1	AA	1425	U	Sidechain
1	AA	1432	G	Sidechain
1	AA	1433	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1437	A	Sidechain
1	AA	1439	G	Sidechain
1	AA	1441	A	Sidechain
1	AA	1442	G	Sidechain
1	AA	1444	U	Sidechain
1	AA	1445	U	Sidechain
1	AA	1446	A	Sidechain
1	AA	1447	A	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	1465	A	Sidechain
1	AA	1468	A	Sidechain
1	AA	1469	C	Sidechain
1	AA	147	G	Sidechain
1	AA	1470	U	Sidechain
1	AA	1472	U	Sidechain
1	AA	1473	G	Sidechain
1	AA	1475	G	Sidechain
1	AA	1476	A	Sidechain
1	AA	1478	U	Sidechain
1	AA	1479	C	Sidechain
1	AA	1480	A	Sidechain
1	AA	1482	G	Sidechain
1	AA	1483	A	Sidechain
1	AA	1484	C	Sidechain
1	AA	1486	G	Sidechain
1	AA	1488	G	Sidechain
1	AA	1490	U	Sidechain
1	AA	1492	A	Sidechain
1	AA	1493	A	Sidechain
1	AA	1499	A	Sidechain
1	AA	1500	A	Sidechain
1	AA	1501	C	Sidechain
1	AA	1502	A	Sidechain
1	AA	1503	A	Sidechain
1	AA	1504	G	Sidechain
1	AA	1505	G	Sidechain
1	AA	1507	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1508	A	Sidechain
1	AA	151	A	Sidechain
1	AA	1512	U	Sidechain
1	AA	1513	A	Sidechain
1	AA	1516	G	Sidechain
1	AA	1517	G	Sidechain
1	AA	1518	A	Sidechain
1	AA	1519	A	Sidechain
1	AA	1520	C	Sidechain
1	AA	1521	C	Sidechain
1	AA	1522	U	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	153	C	Sidechain
1	AA	1531	A	Sidechain
1	AA	156	C	Sidechain
1	AA	157	U	Sidechain
1	AA	158	G	Sidechain
1	AA	161	A	Sidechain
1	AA	162	A	Sidechain
1	AA	163	C	Sidechain
1	AA	166	U	Sidechain
1	AA	173	U	Sidechain
1	AA	177	G	Sidechain
1	AA	18	C	Sidechain
1	AA	180	U	Sidechain
1	AA	181	A	Sidechain
1	AA	183	C	Sidechain
1	AA	185	U	Sidechain
1	AA	187	G	Sidechain
1	AA	188	C	Sidechain
1	AA	189	A	Sidechain
1	AA	19	A	Sidechain
1	AA	191	G	Sidechain
1	AA	193	C	Sidechain
1	AA	194	C	Sidechain
1	AA	195	A	Sidechain
1	AA	196	A	Sidechain
1	AA	197	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	200	G	Sidechain
1	AA	201	G	Sidechain
1	AA	202	G	Sidechain
1	AA	203	G	Sidechain
1	AA	205	A	Sidechain
1	AA	208	U	Sidechain
1	AA	210	C	Sidechain
1	AA	211	G	Sidechain
1	AA	212	G	Sidechain
1	AA	216	U	Sidechain
1	AA	217	C	Sidechain
1	AA	219	U	Sidechain
1	AA	22	G	Sidechain
1	AA	221	C	Sidechain
1	AA	223	A	Sidechain
1	AA	227	G	Sidechain
1	AA	229	U	Sidechain
1	AA	230	G	Sidechain
1	AA	233	C	Sidechain
1	AA	238	A	Sidechain
1	AA	239	U	Sidechain
1	AA	240	G	Sidechain
1	AA	242	G	Sidechain
1	AA	244	U	Sidechain
1	AA	245	U	Sidechain
1	AA	249	U	Sidechain
1	AA	25	C	Sidechain
1	AA	250	A	Sidechain
1	AA	251	G	Sidechain
1	AA	252	U	Sidechain
1	AA	253	A	Sidechain
1	AA	255	G	Sidechain
1	AA	259	G	Sidechain
1	AA	262	A	Sidechain
1	AA	264	C	Sidechain
1	AA	266	G	Sidechain
1	AA	27	G	Sidechain
1	AA	275	G	Sidechain
1	AA	276	G	Sidechain
1	AA	277	C	Sidechain
1	AA	278	G	Sidechain
1	AA	281	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	282	A	Sidechain
1	AA	283	U	Sidechain
1	AA	291	U	Sidechain
1	AA	292	G	Sidechain
1	AA	293	G	Sidechain
1	AA	295	C	Sidechain
1	AA	297	G	Sidechain
1	AA	298	A	Sidechain
1	AA	299	G	Sidechain
1	AA	30	U	Sidechain
1	AA	302	G	Sidechain
1	AA	303	A	Sidechain
1	AA	305	G	Sidechain
1	AA	306	A	Sidechain
1	AA	309	A	Sidechain
1	AA	31	G	Sidechain
1	AA	318	G	Sidechain
1	AA	323	U	Sidechain
1	AA	326	G	Sidechain
1	AA	327	A	Sidechain
1	AA	328	C	Sidechain
1	AA	331	G	Sidechain
1	AA	332	G	Sidechain
1	AA	333	U	Sidechain
1	AA	336	A	Sidechain
1	AA	339	C	Sidechain
1	AA	340	U	Sidechain
1	AA	342	C	Sidechain
1	AA	343	U	Sidechain
1	AA	345	C	Sidechain
1	AA	348	G	Sidechain
1	AA	349	A	Sidechain
1	AA	35	G	Sidechain
1	AA	350	G	Sidechain
1	AA	352	C	Sidechain
1	AA	354	G	Sidechain
1	AA	356	A	Sidechain
1	AA	36	C	Sidechain
1	AA	360	G	Sidechain
1	AA	361	G	Sidechain
1	AA	363	A	Sidechain
1	AA	365	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	366	A	Sidechain
1	AA	369	G	Sidechain
1	AA	37	U	Sidechain
1	AA	370	C	Sidechain
1	AA	372	C	Sidechain
1	AA	375	U	Sidechain
1	AA	377	G	Sidechain
1	AA	378	G	Sidechain
1	AA	380	G	Sidechain
1	AA	381	C	Sidechain
1	AA	383	A	Sidechain
1	AA	387	U	Sidechain
1	AA	388	G	Sidechain
1	AA	395	C	Sidechain
1	AA	396	C	Sidechain
1	AA	397	A	Sidechain
1	AA	399	G	Sidechain
1	AA	40	C	Sidechain
1	AA	400	C	Sidechain
1	AA	401	C	Sidechain
1	AA	402	G	Sidechain
1	AA	405	U	Sidechain
1	AA	406	G	Sidechain
1	AA	407	U	Sidechain
1	AA	408	A	Sidechain
1	AA	409	U	Sidechain
1	AA	410	G	Sidechain
1	AA	411	A	Sidechain
1	AA	412	A	Sidechain
1	AA	418	C	Sidechain
1	AA	420	U	Sidechain
1	AA	422	C	Sidechain
1	AA	423	G	Sidechain
1	AA	424	G	Sidechain
1	AA	425	G	Sidechain
1	AA	426	U	Sidechain
1	AA	428	G	Sidechain
1	AA	429	U	Sidechain
1	AA	43	C	Sidechain
1	AA	430	A	Sidechain
1	AA	431	A	Sidechain
1	AA	438	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	439	U	Sidechain
1	AA	44	A	Sidechain
1	AA	441	A	Sidechain
1	AA	442	G	Sidechain
1	AA	443	C	Sidechain
1	AA	444	G	Sidechain
1	AA	445	G	Sidechain
1	AA	446	G	Sidechain
1	AA	449	G	Sidechain
1	AA	450	G	Sidechain
1	AA	452	A	Sidechain
1	AA	455	G	Sidechain
1	AA	46	G	Sidechain
1	AA	460	A	Sidechain
1	AA	461	A	Sidechain
1	AA	462	G	Sidechain
1	AA	464	U	Sidechain
1	AA	468	A	Sidechain
1	AA	47	C	Sidechain
1	AA	471	U	Sidechain
1	AA	473	U	Sidechain
1	AA	474	G	Sidechain
1	AA	477	C	Sidechain
1	AA	478	A	Sidechain
1	AA	48	C	Sidechain
1	AA	482	A	Sidechain
1	AA	484	G	Sidechain
1	AA	486	U	Sidechain
1	AA	487	A	Sidechain
1	AA	489	C	Sidechain
1	AA	49	U	Sidechain
1	AA	490	C	Sidechain
1	AA	491	G	Sidechain
1	AA	493	A	Sidechain
1	AA	495	A	Sidechain
1	AA	496	A	Sidechain
1	AA	499	A	Sidechain
1	AA	5	U	Sidechain
1	AA	50	A	Sidechain
1	AA	504	C	Sidechain
1	AA	505	G	Sidechain
1	AA	509	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	512	U	Sidechain
1	AA	513	C	Sidechain
1	AA	517	G	Sidechain
1	AA	518	C	Sidechain
1	AA	519	C	Sidechain
1	AA	52	C	Sidechain
1	AA	524	G	Sidechain
1	AA	525	C	Sidechain
1	AA	526	C	Sidechain
1	AA	527	G	Sidechain
1	AA	532	A	Sidechain
1	AA	540	G	Sidechain
1	AA	542	G	Sidechain
1	AA	548	G	Sidechain
1	AA	551	U	Sidechain
1	AA	553	A	Sidechain
1	AA	558	G	Sidechain
1	AA	561	U	Sidechain
1	AA	565	U	Sidechain
1	AA	566	G	Sidechain
1	AA	567	G	Sidechain
1	AA	569	C	Sidechain
1	AA	571	U	Sidechain
1	AA	572	A	Sidechain
1	AA	573	A	Sidechain
1	AA	574	A	Sidechain
1	AA	578	C	Sidechain
1	AA	58	C	Sidechain
1	AA	581	G	Sidechain
1	AA	584	G	Sidechain
1	AA	587	G	Sidechain
1	AA	59	A	Sidechain
1	AA	590	U	Sidechain
1	AA	594	U	Sidechain
1	AA	595	A	Sidechain
1	AA	597	G	Sidechain
1	AA	598	U	Sidechain
1	AA	599	C	Sidechain
1	AA	6	G	Sidechain
1	AA	600	A	Sidechain
1	AA	608	A	Sidechain
1	AA	61	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	610	U	Sidechain
1	AA	612	C	Sidechain
1	AA	614	C	Sidechain
1	AA	615	G	Sidechain
1	AA	616	G	Sidechain
1	AA	619	U	Sidechain
1	AA	620	C	Sidechain
1	AA	622	A	Sidechain
1	AA	623	C	Sidechain
1	AA	624	C	Sidechain
1	AA	625	U	Sidechain
1	AA	626	G	Sidechain
1	AA	628	G	Sidechain
1	AA	63	C	Sidechain
1	AA	632	U	Sidechain
1	AA	633	G	Sidechain
1	AA	636	U	Sidechain
1	AA	638	U	Sidechain
1	AA	639	G	Sidechain
1	AA	64	G	Sidechain
1	AA	642	A	Sidechain
1	AA	644	U	Sidechain
1	AA	646	G	Sidechain
1	AA	648	A	Sidechain
1	AA	649	A	Sidechain
1	AA	650	G	Sidechain
1	AA	651	C	Sidechain
1	AA	652	U	Sidechain
1	AA	654	G	Sidechain
1	AA	657	U	Sidechain
1	AA	661	G	Sidechain
1	AA	664	G	Sidechain
1	AA	665	A	Sidechain
1	AA	667	G	Sidechain
1	AA	668	G	Sidechain
1	AA	669	G	Sidechain
1	AA	673	A	Sidechain
1	AA	674	G	Sidechain
1	AA	676	A	Sidechain
1	AA	681	A	Sidechain
1	AA	683	G	Sidechain
1	AA	684	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	69	G	Sidechain
1	AA	690	G	Sidechain
1	AA	696	A	Sidechain
1	AA	697	U	Sidechain
1	AA	7	A	Sidechain
1	AA	700	G	Sidechain
1	AA	701	U	Sidechain
1	AA	708	C	Sidechain
1	AA	709	U	Sidechain
1	AA	71	A	Sidechain
1	AA	711	G	Sidechain
1	AA	714	G	Sidechain
1	AA	718	A	Sidechain
1	AA	720	C	Sidechain
1	AA	722	G	Sidechain
1	AA	726	C	Sidechain
1	AA	728	A	Sidechain
1	AA	729	A	Sidechain
1	AA	73	C	Sidechain
1	AA	730	G	Sidechain
1	AA	732	C	Sidechain
1	AA	733	G	Sidechain
1	AA	734	G	Sidechain
1	AA	737	C	Sidechain
1	AA	738	C	Sidechain
1	AA	739	C	Sidechain
1	AA	740	U	Sidechain
1	AA	742	G	Sidechain
1	AA	747	A	Sidechain
1	AA	748	G	Sidechain
1	AA	75	G	Sidechain
1	AA	751	U	Sidechain
1	AA	752	G	Sidechain
1	AA	754	C	Sidechain
1	AA	755	G	Sidechain
1	AA	757	U	Sidechain
1	AA	758	C	Sidechain
1	AA	761	G	Sidechain
1	AA	762	U	Sidechain
1	AA	763	G	Sidechain
1	AA	764	C	Sidechain
1	AA	77	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	771	G	Sidechain
1	AA	772	U	Sidechain
1	AA	774	G	Sidechain
1	AA	776	G	Sidechain
1	AA	778	G	Sidechain
1	AA	779	C	Sidechain
1	AA	784	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	790	A	Sidechain
1	AA	791	G	Sidechain
1	AA	799	G	Sidechain
1	AA	80	A	Sidechain
1	AA	800	G	Sidechain
1	AA	801	U	Sidechain
1	AA	805	C	Sidechain
1	AA	809	G	Sidechain
1	AA	810	C	Sidechain
1	AA	814	A	Sidechain
1	AA	817	C	Sidechain
1	AA	818	G	Sidechain
1	AA	819	A	Sidechain
1	AA	820	U	Sidechain
1	AA	821	G	Sidechain
1	AA	822	U	Sidechain
1	AA	824	G	Sidechain
1	AA	827	U	Sidechain
1	AA	828	U	Sidechain
1	AA	829	G	Sidechain
1	AA	830	G	Sidechain
1	AA	836	G	Sidechain
1	AA	838	G	Sidechain
1	AA	839	C	Sidechain
1	AA	84	U	Sidechain
1	AA	841	C	Sidechain
1	AA	843	U	Sidechain
1	AA	844	G	Sidechain
1	AA	846	G	Sidechain
1	AA	847	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	849	G	Sidechain
1	AA	850	U	Sidechain
1	AA	852	G	Sidechain
1	AA	853	C	Sidechain
1	AA	855	U	Sidechain
1	AA	856	C	Sidechain
1	AA	858	G	Sidechain
1	AA	86	G	Sidechain
1	AA	860	A	Sidechain
1	AA	861	G	Sidechain
1	AA	863	U	Sidechain
1	AA	864	A	Sidechain
1	AA	865	A	Sidechain
1	AA	867	G	Sidechain
1	AA	869	G	Sidechain
1	AA	87	C	Sidechain
1	AA	870	U	Sidechain
1	AA	871	U	Sidechain
1	AA	872	A	Sidechain
1	AA	874	G	Sidechain
1	AA	875	U	Sidechain
1	AA	876	C	Sidechain
1	AA	879	C	Sidechain
1	AA	88	U	Sidechain
1	AA	883	C	Sidechain
1	AA	884	U	Sidechain
1	AA	886	G	Sidechain
1	AA	888	G	Sidechain
1	AA	890	G	Sidechain
1	AA	894	G	Sidechain
1	AA	895	G	Sidechain
1	AA	897	C	Sidechain
1	AA	898	G	Sidechain
1	AA	900	A	Sidechain
1	AA	903	G	Sidechain
1	AA	906	A	Sidechain
1	AA	909	A	Sidechain
1	AA	91	U	Sidechain
1	AA	915	A	Sidechain
1	AA	917	G	Sidechain
1	AA	918	A	Sidechain
1	AA	921	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	923	A	Sidechain
1	AA	925	G	Sidechain
1	AA	927	G	Sidechain
1	AA	929	G	Sidechain
1	AA	93	U	Sidechain
1	AA	931	C	Sidechain
1	AA	933	G	Sidechain
1	AA	937	A	Sidechain
1	AA	938	A	Sidechain
1	AA	94	G	Sidechain
1	AA	942	G	Sidechain
1	AA	943	U	Sidechain
1	AA	944	G	Sidechain
1	AA	945	G	Sidechain
1	AA	947	G	Sidechain
1	AA	948	C	Sidechain
1	AA	949	A	Sidechain
1	AA	95	C	Sidechain
1	AA	951	G	Sidechain
1	AA	952	U	Sidechain
1	AA	954	G	Sidechain
1	AA	955	U	Sidechain
1	AA	959	A	Sidechain
1	AA	962	C	Sidechain
1	AA	963	G	Sidechain
1	AA	964	A	Sidechain
1	AA	966	G	Sidechain
1	AA	969	A	Sidechain
1	AA	970	C	Sidechain
1	AA	971	G	Sidechain
1	AA	973	G	Sidechain
1	AA	974	A	Sidechain
1	AA	976	G	Sidechain
1	AA	978	A	Sidechain
1	AA	979	C	Sidechain
1	AA	98	A	Sidechain
1	AA	985	C	Sidechain
1	AA	988	G	Sidechain
1	AA	989	U	Sidechain
1	AA	99	C	Sidechain
1	AA	990	C	Sidechain
1	AA	992	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	994	A	Sidechain
1	AA	997	U	Sidechain
1	AA	999	C	Sidechain
2	AB	112	ARG	Sidechain
2	AB	136	ARG	Sidechain
2	AB	212	TYR	Sidechain
2	AB	89	PHE	Sidechain
2	AB	94	ARG	Sidechain
3	AC	126	ARG	Sidechain
3	AC	142	ARG	Sidechain
3	AC	155	ARG	Sidechain
3	AC	163	ARG	Sidechain
3	AC	39	ARG	Sidechain
3	AC	41	TYR	Sidechain
3	AC	53	ARG	Sidechain
4	AD	110	ARG	Sidechain
4	AD	114	ARG	Sidechain
4	AD	127	ARG	Sidechain
4	AD	134	TYR	Sidechain
4	AD	164	ARG	Sidechain
4	AD	181	PHE	Peptide
4	AD	187	ARG	Sidechain
4	AD	203	TYR	Sidechain
4	AD	3	TYR	Sidechain
4	AD	62	ARG	Sidechain
4	AD	64	TYR	Sidechain
5	AE	111	ARG	Peptide
5	AE	127	TYR	Sidechain
5	AE	19	ARG	Sidechain
5	AE	33	THR	Peptide
5	AE	94	PHE	Sidechain
6	AF	2	ARG	Sidechain
6	AF	44	ARG	Sidechain
6	AF	49	TYR	Sidechain
7	AG	118	ARG	Sidechain
7	AG	52	ARG	Sidechain
7	AG	77	ARG	Sidechain
8	AH	113	ARG	Sidechain
8	AH	12	ARG	Sidechain
8	AH	127	TYR	Sidechain
9	AI	121	ARG	Sidechain
9	AI	129	ARG	Sidechain

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Mol	Chain	Res	Type	Group
9	AI	20	ILE	Peptide
9	AI	32	ARG	Sidechain
9	AI	48	ARG	Sidechain
9	AI	6	TYR	Sidechain
9	AI	89	TYR	Sidechain
10	AJ	48	ARG	Sidechain
10	AJ	49	PHE	Sidechain
10	AJ	62	ARG	Sidechain
10	AJ	68	ARG	Sidechain
10	AJ	7	ARG	Sidechain
10	AJ	72	ARG	Sidechain
11	AK	104	PHE	Sidechain
11	AK	51	PHE	Sidechain
11	AK	52	ARG	Sidechain
12	AL	109	ARG	Sidechain
12	AL	37	TYR	Sidechain
12	AL	65	TYR	Sidechain
12	AL	93	ARG	Sidechain
12	AL	94	TYR	Sidechain
13	AM	112	ARG	Sidechain
13	AM	2	ARG	Sidechain
13	AM	22	TYR	Sidechain
13	AM	25	GLY	Peptide
13	AM	69	ARG	Sidechain
13	AM	86	ARG	Sidechain
13	AM	89	ARG	Sidechain
13	AM	91	ARG	Sidechain
13	AM	92	ARG	Sidechain
14	AN	74	ARG	Sidechain
14	AN	8	ARG	Sidechain
14	AN	89	ARG	Sidechain
15	AO	37	HIS	Sidechain
15	AO	68	TYR	Sidechain
15	AO	71	ARG	Sidechain
15	AO	76	ARG	Sidechain
15	AO	79	ARG	Sidechain
15	AO	87	ARG	Sidechain
16	AP	17	TYR	Sidechain
16	AP	28	ARG	Sidechain
16	AP	5	ARG	Sidechain
16	AP	51	ARG	Sidechain
17	AQ	33	TYR	Sidechain

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Mol	Chain	Res	Type	Group
18	AR	22	TYR	Sidechain
18	AR	42	ARG	Sidechain
18	AR	50	TYR	Sidechain
18	AR	56	ARG	Sidechain
18	AR	69	TYR	Sidechain
19	AS	54	ARG	Sidechain
19	AS	74	ALA	Peptide
19	AS	77	ARG	Sidechain
19	AS	79	TYR	Sidechain
20	AT	17	ARG	Sidechain
20	AT	28	ARG	Sidechain
20	AT	74	HIS	Sidechain
22	AV	13	C	Sidechain
22	AV	3	G	Sidechain
22	AV	33	U	Sidechain
22	AV	37	G	Sidechain
22	AV	39	G	Sidechain
22	AV	4	C	Sidechain
22	AV	5	A	Sidechain
22	AV	66	C	Sidechain
22	AV	67	G	Sidechain
22	AV	69	G	Sidechain
22	AV	70	C	Sidechain
22	AV	71	C	Sidechain
22	AV	75	C	Sidechain
23	AX	13	A	Sidechain
23	AX	14	A	Sidechain
23	AX	15	A	Sidechain
23	AX	20	G	Sidechain
25	B0	36	ARG	Sidechain
25	B0	49	ARG	Sidechain
25	B0	52	ALA	Peptide
25	B0	73	ARG	Sidechain
26	B1	26	PHE	Sidechain
28	B3	12	ARG	Sidechain
28	B3	51	ARG	Sidechain
29	B4	13	SER	Peptide
29	B4	37	LYS	Peptide
29	B4	48	TYR	Sidechain
30	B5	144	THR	Peptide
30	B5	164	ARG	Sidechain
30	B5	208	TYR	Sidechain

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Mol	Chain	Res	Type	Group
30	B5	60	ARG	Sidechain
30	B5	71	ARG	Sidechain
30	B5	9	ARG	Sidechain
31	B6	12	ARG	Sidechain
31	B6	28	ARG	Sidechain
31	B6	39	ARG	Peptide
32	B7	25	HIS	Sidechain
34	BA	10	G	Sidechain
34	BA	100	G	Sidechain
34	BA	105	G	Sidechain
34	BA	107	G	Sidechain
34	BA	108	A	Sidechain
34	BA	112	G	Sidechain
34	BA	113	C	Sidechain
34	BA	114	C	Sidechain
34	BA	115	A	Sidechain
34	BA	116	G	Sidechain
34	BA	117	G	Sidechain
34	BA	12	C	Sidechain
34	BA	16	G	Sidechain
34	BA	17	C	Sidechain
34	BA	18	G	Sidechain
34	BA	2	G	Sidechain
34	BA	21	G	Sidechain
34	BA	24	G	Sidechain
34	BA	26	C	Sidechain
34	BA	27	C	Sidechain
34	BA	31	C	Sidechain
34	BA	37	C	Sidechain
34	BA	4	C	Sidechain
34	BA	40	U	Sidechain
34	BA	41	G	Sidechain
34	BA	44	G	Sidechain
34	BA	45	A	Sidechain
34	BA	47	C	Sidechain
34	BA	49	C	Sidechain
34	BA	5	U	Sidechain
34	BA	51	G	Sidechain
34	BA	54	G	Sidechain
34	BA	58	A	Sidechain
34	BA	59	A	Sidechain
34	BA	61	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	64	G	Sidechain
34	BA	66	A	Sidechain
34	BA	68	C	Sidechain
34	BA	7	G	Sidechain
34	BA	70	C	Sidechain
34	BA	71	C	Sidechain
34	BA	72	G	Sidechain
34	BA	75	G	Sidechain
34	BA	78	A	Sidechain
34	BA	79	G	Sidechain
34	BA	83	G	Sidechain
34	BA	87	U	Sidechain
34	BA	90	C	Sidechain
34	BA	92	C	Sidechain
34	BA	96	G	Sidechain
35	BB	1	G	Sidechain
35	BB	1002	G	Sidechain
35	BB	1005	C	Sidechain
35	BB	1008	A	Sidechain
35	BB	1010	A	Sidechain
35	BB	1011	G	Sidechain
35	BB	1015	U	Sidechain
35	BB	102	U	Sidechain
35	BB	1021	A	Sidechain
35	BB	1023	U	Sidechain
35	BB	1025	G	Sidechain
35	BB	1026	G	Sidechain
35	BB	1027	A	Sidechain
35	BB	1031	G	Sidechain
35	BB	1035	U	Sidechain
35	BB	1037	G	Sidechain
35	BB	104	A	Sidechain
35	BB	1040	A	Sidechain
35	BB	1041	G	Sidechain
35	BB	1045	C	Sidechain
35	BB	1046	A	Sidechain
35	BB	1047	G	Sidechain
35	BB	1048	A	Sidechain
35	BB	1049	C	Sidechain
35	BB	1051	G	Sidechain
35	BB	1052	C	Sidechain
35	BB	1053	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1055	G	Sidechain
35	BB	1057	A	Sidechain
35	BB	1059	G	Sidechain
35	BB	1060	U	Sidechain
35	BB	1061	U	Sidechain
35	BB	1062	G	Sidechain
35	BB	1064	C	Sidechain
35	BB	1067	A	Sidechain
35	BB	1069	A	Sidechain
35	BB	1071	G	Sidechain
35	BB	1074	G	Sidechain
35	BB	1077	A	Sidechain
35	BB	1079	C	Sidechain
35	BB	108	G	Sidechain
35	BB	1081	U	Sidechain
35	BB	1085	A	Sidechain
35	BB	109	C	Sidechain
35	BB	1095	A	Sidechain
35	BB	1097	U	Sidechain
35	BB	1098	A	Sidechain
35	BB	1099	G	Sidechain
35	BB	11	C	Sidechain
35	BB	1103	A	Sidechain
35	BB	1107	G	Sidechain
35	BB	1108	U	Sidechain
35	BB	1109	C	Sidechain
35	BB	111	A	Sidechain
35	BB	1110	G	Sidechain
35	BB	1115	G	Sidechain
35	BB	112	U	Sidechain
35	BB	1120	G	Sidechain
35	BB	1123	C	Sidechain
35	BB	1124	G	Sidechain
35	BB	1125	G	Sidechain
35	BB	1126	A	Sidechain
35	BB	1129	A	Sidechain
35	BB	113	U	Sidechain
35	BB	1131	G	Sidechain
35	BB	1133	A	Sidechain
35	BB	1137	G	Sidechain
35	BB	1138	G	Sidechain
35	BB	1143	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1148	U	Sidechain
35	BB	1149	G	Sidechain
35	BB	1151	A	Sidechain
35	BB	1153	C	Sidechain
35	BB	1154	G	Sidechain
35	BB	1159	U	Sidechain
35	BB	116	C	Sidechain
35	BB	1164	C	Sidechain
35	BB	1165	A	Sidechain
35	BB	1166	G	Sidechain
35	BB	1167	C	Sidechain
35	BB	1170	C	Sidechain
35	BB	1171	G	Sidechain
35	BB	1172	C	Sidechain
35	BB	1173	U	Sidechain
35	BB	1174	U	Sidechain
35	BB	1177	G	Sidechain
35	BB	1180	U	Sidechain
35	BB	1184	U	Sidechain
35	BB	1185	G	Sidechain
35	BB	1186	G	Sidechain
35	BB	1187	G	Sidechain
35	BB	1188	U	Sidechain
35	BB	1191	G	Sidechain
35	BB	1192	G	Sidechain
35	BB	1195	G	Sidechain
35	BB	1198	U	Sidechain
35	BB	12	U	Sidechain
35	BB	1204	A	Sidechain
35	BB	1206	G	Sidechain
35	BB	1207	C	Sidechain
35	BB	1209	U	Sidechain
35	BB	1211	C	Sidechain
35	BB	1212	G	Sidechain
35	BB	1216	G	Sidechain
35	BB	122	G	Sidechain
35	BB	1220	G	Sidechain
35	BB	1221	C	Sidechain
35	BB	1222	U	Sidechain
35	BB	1223	G	Sidechain
35	BB	1224	U	Sidechain
35	BB	123	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1231	U	Sidechain
35	BB	1234	U	Sidechain
35	BB	1235	G	Sidechain
35	BB	1237	A	Sidechain
35	BB	1238	G	Sidechain
35	BB	1242	U	Sidechain
35	BB	1244	A	Sidechain
35	BB	1245	G	Sidechain
35	BB	1249	U	Sidechain
35	BB	1250	G	Sidechain
35	BB	1252	G	Sidechain
35	BB	1253	A	Sidechain
35	BB	1254	A	Sidechain
35	BB	1255	U	Sidechain
35	BB	1260	A	Sidechain
35	BB	1264	A	Sidechain
35	BB	1267	U	Sidechain
35	BB	1269	A	Sidechain
35	BB	127	A	Sidechain
35	BB	1270	C	Sidechain
35	BB	1273	U	Sidechain
35	BB	1274	A	Sidechain
35	BB	1275	A	Sidechain
35	BB	1276	A	Sidechain
35	BB	1277	G	Sidechain
35	BB	1281	G	Sidechain
35	BB	1282	U	Sidechain
35	BB	1283	G	Sidechain
35	BB	1286	A	Sidechain
35	BB	1288	G	Sidechain
35	BB	1290	C	Sidechain
35	BB	1292	G	Sidechain
35	BB	1298	C	Sidechain
35	BB	1300	G	Sidechain
35	BB	1302	A	Sidechain
35	BB	1303	G	Sidechain
35	BB	1306	C	Sidechain
35	BB	1310	G	Sidechain
35	BB	1311	G	Sidechain
35	BB	1312	U	Sidechain
35	BB	1316	U	Sidechain
35	BB	1319	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	132	G	Sidechain
35	BB	1320	C	Sidechain
35	BB	1321	A	Sidechain
35	BB	1322	A	Sidechain
35	BB	1325	U	Sidechain
35	BB	1327	A	Sidechain
35	BB	1332	G	Sidechain
35	BB	1334	G	Sidechain
35	BB	1336	A	Sidechain
35	BB	1338	G	Sidechain
35	BB	134	G	Sidechain
35	BB	1343	G	Sidechain
35	BB	1346	G	Sidechain
35	BB	1347	A	Sidechain
35	BB	1349	C	Sidechain
35	BB	135	U	Sidechain
35	BB	1350	C	Sidechain
35	BB	1351	C	Sidechain
35	BB	1359	A	Sidechain
35	BB	136	G	Sidechain
35	BB	1360	G	Sidechain
35	BB	1361	G	Sidechain
35	BB	1363	C	Sidechain
35	BB	1367	A	Sidechain
35	BB	1368	G	Sidechain
35	BB	1369	G	Sidechain
35	BB	1371	G	Sidechain
35	BB	1372	U	Sidechain
35	BB	1373	A	Sidechain
35	BB	1374	G	Sidechain
35	BB	1376	C	Sidechain
35	BB	1377	G	Sidechain
35	BB	1381	G	Sidechain
35	BB	1382	G	Sidechain
35	BB	1384	A	Sidechain
35	BB	1387	A	Sidechain
35	BB	1388	G	Sidechain
35	BB	1389	G	Sidechain
35	BB	139	U	Sidechain
35	BB	1390	U	Sidechain
35	BB	1394	U	Sidechain
35	BB	1396	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1399	C	Sidechain
35	BB	140	C	Sidechain
35	BB	1401	G	Sidechain
35	BB	1404	C	Sidechain
35	BB	1406	U	Sidechain
35	BB	1408	G	Sidechain
35	BB	141	G	Sidechain
35	BB	1413	A	Sidechain
35	BB	1415	U	Sidechain
35	BB	1416	G	Sidechain
35	BB	1418	G	Sidechain
35	BB	1419	A	Sidechain
35	BB	1421	G	Sidechain
35	BB	1423	G	Sidechain
35	BB	1424	G	Sidechain
35	BB	1427	A	Sidechain
35	BB	1428	C	Sidechain
35	BB	1429	G	Sidechain
35	BB	1433	A	Sidechain
35	BB	1435	G	Sidechain
35	BB	1438	U	Sidechain
35	BB	1441	G	Sidechain
35	BB	1442	U	Sidechain
35	BB	1445	G	Sidechain
35	BB	1447	C	Sidechain
35	BB	1449	G	Sidechain
35	BB	1451	C	Sidechain
35	BB	1453	A	Sidechain
35	BB	1459	G	Sidechain
35	BB	1461	C	Sidechain
35	BB	1463	C	Sidechain
35	BB	1465	G	Sidechain
35	BB	1467	U	Sidechain
35	BB	1468	U	Sidechain
35	BB	1469	A	Sidechain
35	BB	1470	A	Sidechain
35	BB	1471	G	Sidechain
35	BB	1473	G	Sidechain
35	BB	1474	U	Sidechain
35	BB	1475	G	Sidechain
35	BB	1477	A	Sidechain
35	BB	1479	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	148	U	Sidechain
35	BB	1480	C	Sidechain
35	BB	1482	G	Sidechain
35	BB	1487	U	Sidechain
35	BB	1488	C	Sidechain
35	BB	1490	A	Sidechain
35	BB	1491	G	Sidechain
35	BB	1493	C	Sidechain
35	BB	1494	A	Sidechain
35	BB	1496	A	Sidechain
35	BB	1498	C	Sidechain
35	BB	15	G	Sidechain
35	BB	150	U	Sidechain
35	BB	1501	G	Sidechain
35	BB	1503	A	Sidechain
35	BB	1506	U	Sidechain
35	BB	1508	A	Sidechain
35	BB	1509	A	Sidechain
35	BB	1510	G	Sidechain
35	BB	1513	U	Sidechain
35	BB	1514	G	Sidechain
35	BB	1517	G	Sidechain
35	BB	1519	G	Sidechain
35	BB	152	A	Sidechain
35	BB	1520	U	Sidechain
35	BB	1521	G	Sidechain
35	BB	1522	A	Sidechain
35	BB	1524	G	Sidechain
35	BB	1525	A	Sidechain
35	BB	1528	A	Sidechain
35	BB	1532	A	Sidechain
35	BB	1533	C	Sidechain
35	BB	1535	A	Sidechain
35	BB	1537	G	Sidechain
35	BB	1538	G	Sidechain
35	BB	1539	U	Sidechain
35	BB	1540	G	Sidechain
35	BB	1545	A	Sidechain
35	BB	1547	C	Sidechain
35	BB	1548	A	Sidechain
35	BB	1552	A	Sidechain
35	BB	1553	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1555	G	Sidechain
35	BB	1558	C	Sidechain
35	BB	1559	U	Sidechain
35	BB	1560	G	Sidechain
35	BB	1561	C	Sidechain
35	BB	1562	U	Sidechain
35	BB	1564	C	Sidechain
35	BB	1569	A	Sidechain
35	BB	1573	G	Sidechain
35	BB	1574	C	Sidechain
35	BB	1578	U	Sidechain
35	BB	158	U	Sidechain
35	BB	1582	C	Sidechain
35	BB	1583	A	Sidechain
35	BB	1587	G	Sidechain
35	BB	1588	G	Sidechain
35	BB	159	G	Sidechain
35	BB	1590	A	Sidechain
35	BB	1591	A	Sidechain
35	BB	1596	A	Sidechain
35	BB	1597	A	Sidechain
35	BB	16	C	Sidechain
35	BB	160	A	Sidechain
35	BB	1602	U	Sidechain
35	BB	1605	C	Sidechain
35	BB	1607	C	Sidechain
35	BB	1608	A	Sidechain
35	BB	161	A	Sidechain
35	BB	1610	A	Sidechain
35	BB	1613	G	Sidechain
35	BB	1614	A	Sidechain
35	BB	1616	A	Sidechain
35	BB	1617	C	Sidechain
35	BB	1618	A	Sidechain
35	BB	1619	G	Sidechain
35	BB	1620	G	Sidechain
35	BB	1621	U	Sidechain
35	BB	1622	G	Sidechain
35	BB	1628	G	Sidechain
35	BB	163	C	Sidechain
35	BB	1631	G	Sidechain
35	BB	1635	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1636	U	Sidechain
35	BB	1638	C	Sidechain
35	BB	164	C	Sidechain
35	BB	1646	C	Sidechain
35	BB	1651	G	Sidechain
35	BB	1652	A	Sidechain
35	BB	1653	G	Sidechain
35	BB	1657	U	Sidechain
35	BB	1659	G	Sidechain
35	BB	1660	G	Sidechain
35	BB	1661	G	Sidechain
35	BB	1662	U	Sidechain
35	BB	1668	A	Sidechain
35	BB	1671	U	Sidechain
35	BB	1672	A	Sidechain
35	BB	1674	G	Sidechain
35	BB	1676	A	Sidechain
35	BB	1678	A	Sidechain
35	BB	168	G	Sidechain
35	BB	1680	U	Sidechain
35	BB	1681	G	Sidechain
35	BB	1682	G	Sidechain
35	BB	1686	C	Sidechain
35	BB	1688	U	Sidechain
35	BB	169	G	Sidechain
35	BB	1692	U	Sidechain
35	BB	1693	U	Sidechain
35	BB	1695	G	Sidechain
35	BB	1696	G	Sidechain
35	BB	1697	G	Sidechain
35	BB	1698	A	Sidechain
35	BB	1699	G	Sidechain
35	BB	1700	A	Sidechain
35	BB	1702	G	Sidechain
35	BB	1707	G	Sidechain
35	BB	171	U	Sidechain
35	BB	1710	G	Sidechain
35	BB	1714	U	Sidechain
35	BB	1715	G	Sidechain
35	BB	1716	U	Sidechain
35	BB	1718	G	Sidechain
35	BB	172	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1720	U	Sidechain
35	BB	1721	G	Sidechain
35	BB	1724	G	Sidechain
35	BB	1725	U	Sidechain
35	BB	173	A	Sidechain
35	BB	1730	C	Sidechain
35	BB	1731	G	Sidechain
35	BB	1734	G	Sidechain
35	BB	1736	U	Sidechain
35	BB	1740	G	Sidechain
35	BB	1741	C	Sidechain
35	BB	1747	U	Sidechain
35	BB	1754	A	Sidechain
35	BB	1756	G	Sidechain
35	BB	1759	A	Sidechain
35	BB	1760	C	Sidechain
35	BB	1761	C	Sidechain
35	BB	1763	G	Sidechain
35	BB	1765	U	Sidechain
35	BB	1767	G	Sidechain
35	BB	1768	C	Sidechain
35	BB	1769	U	Sidechain
35	BB	177	G	Sidechain
35	BB	1777	U	Sidechain
35	BB	1778	U	Sidechain
35	BB	1779	U	Sidechain
35	BB	1780	A	Sidechain
35	BB	1781	U	Sidechain
35	BB	1783	A	Sidechain
35	BB	1784	A	Sidechain
35	BB	1785	A	Sidechain
35	BB	1786	A	Sidechain
35	BB	1787	A	Sidechain
35	BB	1788	C	Sidechain
35	BB	1791	A	Sidechain
35	BB	1794	A	Sidechain
35	BB	1797	G	Sidechain
35	BB	180	G	Sidechain
35	BB	1800	C	Sidechain
35	BB	1801	A	Sidechain
35	BB	1802	A	Sidechain
35	BB	1803	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1807	G	Sidechain
35	BB	1809	A	Sidechain
35	BB	1813	G	Sidechain
35	BB	1814	G	Sidechain
35	BB	1815	A	Sidechain
35	BB	1816	C	Sidechain
35	BB	1818	U	Sidechain
35	BB	1820	U	Sidechain
35	BB	1821	A	Sidechain
35	BB	1823	G	Sidechain
35	BB	1825	U	Sidechain
35	BB	1826	G	Sidechain
35	BB	1829	A	Sidechain
35	BB	1839	G	Sidechain
35	BB	1841	U	Sidechain
35	BB	1842	G	Sidechain
35	BB	1844	C	Sidechain
35	BB	1845	G	Sidechain
35	BB	1846	G	Sidechain
35	BB	1854	A	Sidechain
35	BB	1855	U	Sidechain
35	BB	1856	U	Sidechain
35	BB	1857	G	Sidechain
35	BB	1858	A	Sidechain
35	BB	1859	U	Sidechain
35	BB	1860	G	Sidechain
35	BB	1863	G	Sidechain
35	BB	1866	A	Sidechain
35	BB	1868	C	Sidechain
35	BB	1869	G	Sidechain
35	BB	187	G	Sidechain
35	BB	1872	A	Sidechain
35	BB	1875	G	Sidechain
35	BB	1876	A	Sidechain
35	BB	1878	G	Sidechain
35	BB	188	G	Sidechain
35	BB	1880	U	Sidechain
35	BB	1885	A	Sidechain
35	BB	1888	G	Sidechain
35	BB	1891	G	Sidechain
35	BB	1896	G	Sidechain
35	BB	1898	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1899	A	Sidechain
35	BB	190	A	Sidechain
35	BB	1901	A	Sidechain
35	BB	1903	G	Sidechain
35	BB	1904	G	Sidechain
35	BB	1905	C	Sidechain
35	BB	1907	G	Sidechain
35	BB	191	A	Sidechain
35	BB	1911	U	Sidechain
35	BB	1913	A	Sidechain
35	BB	1914	C	Sidechain
35	BB	1917	U	Sidechain
35	BB	1918	A	Sidechain
35	BB	192	C	Sidechain
35	BB	1920	C	Sidechain
35	BB	1921	G	Sidechain
35	BB	1923	U	Sidechain
35	BB	1927	A	Sidechain
35	BB	1929	G	Sidechain
35	BB	1930	G	Sidechain
35	BB	1931	U	Sidechain
35	BB	1933	G	Sidechain
35	BB	1937	A	Sidechain
35	BB	194	G	Sidechain
35	BB	1940	U	Sidechain
35	BB	1941	C	Sidechain
35	BB	1942	C	Sidechain
35	BB	1943	U	Sidechain
35	BB	1945	G	Sidechain
35	BB	1949	G	Sidechain
35	BB	195	A	Sidechain
35	BB	1952	A	Sidechain
35	BB	1953	A	Sidechain
35	BB	1957	C	Sidechain
35	BB	196	A	Sidechain
35	BB	1960	A	Sidechain
35	BB	1961	C	Sidechain
35	BB	1963	U	Sidechain
35	BB	1964	G	Sidechain
35	BB	1966	A	Sidechain
35	BB	197	A	Sidechain
35	BB	1971	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	1974	C	Sidechain
35	BB	1975	G	Sidechain
35	BB	1976	U	Sidechain
35	BB	1978	A	Sidechain
35	BB	1979	U	Sidechain
35	BB	198	C	Sidechain
35	BB	1980	G	Sidechain
35	BB	1981	A	Sidechain
35	BB	1982	U	Sidechain
35	BB	1983	G	Sidechain
35	BB	1986	C	Sidechain
35	BB	1989	G	Sidechain
35	BB	1993	U	Sidechain
35	BB	1996	C	Sidechain
35	BB	1998	A	Sidechain
35	BB	1999	C	Sidechain
35	BB	20	C	Sidechain
35	BB	2002	G	Sidechain
35	BB	2003	A	Sidechain
35	BB	2005	A	Sidechain
35	BB	2009	A	Sidechain
35	BB	2010	G	Sidechain
35	BB	2011	U	Sidechain
35	BB	2012	G	Sidechain
35	BB	2019	A	Sidechain
35	BB	2021	C	Sidechain
35	BB	2023	C	Sidechain
35	BB	2025	C	Sidechain
35	BB	2026	U	Sidechain
35	BB	2029	G	Sidechain
35	BB	2034	U	Sidechain
35	BB	2035	G	Sidechain
35	BB	2037	A	Sidechain
35	BB	2043	C	Sidechain
35	BB	2044	C	Sidechain
35	BB	2046	G	Sidechain
35	BB	2047	C	Sidechain
35	BB	2048	G	Sidechain
35	BB	205	G	Sidechain
35	BB	2053	G	Sidechain
35	BB	2054	A	Sidechain
35	BB	2057	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	2058	A	Sidechain
35	BB	2059	A	Sidechain
35	BB	206	U	Sidechain
35	BB	2062	A	Sidechain
35	BB	2065	C	Sidechain
35	BB	2066	C	Sidechain
35	BB	2068	U	Sidechain
35	BB	2069	G	Sidechain
35	BB	207	A	Sidechain
35	BB	2070	A	Sidechain
35	BB	2071	A	Sidechain
35	BB	2072	C	Sidechain
35	BB	2073	C	Sidechain
35	BB	2074	U	Sidechain
35	BB	2075	U	Sidechain
35	BB	2076	U	Sidechain
35	BB	2081	U	Sidechain
35	BB	2085	U	Sidechain
35	BB	2086	U	Sidechain
35	BB	2088	A	Sidechain
35	BB	2093	G	Sidechain
35	BB	210	C	Sidechain
35	BB	2100	G	Sidechain
35	BB	2102	G	Sidechain
35	BB	2104	C	Sidechain
35	BB	2106	U	Sidechain
35	BB	2109	U	Sidechain
35	BB	2115	G	Sidechain
35	BB	2117	A	Sidechain
35	BB	2119	A	Sidechain
35	BB	2122	U	Sidechain
35	BB	2124	G	Sidechain
35	BB	2125	G	Sidechain
35	BB	2126	A	Sidechain
35	BB	2128	G	Sidechain
35	BB	213	A	Sidechain
35	BB	2130	U	Sidechain
35	BB	2133	G	Sidechain
35	BB	2135	A	Sidechain
35	BB	2137	U	Sidechain
35	BB	2138	G	Sidechain
35	BB	2139	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	2142	A	Sidechain
35	BB	2144	G	Sidechain
35	BB	2146	C	Sidechain
35	BB	2147	A	Sidechain
35	BB	2148	G	Sidechain
35	BB	2149	U	Sidechain
35	BB	215	G	Sidechain
35	BB	2150	C	Sidechain
35	BB	2151	U	Sidechain
35	BB	2152	G	Sidechain
35	BB	2156	G	Sidechain
35	BB	2157	G	Sidechain
35	BB	2158	A	Sidechain
35	BB	2159	G	Sidechain
35	BB	2166	U	Sidechain
35	BB	2167	U	Sidechain
35	BB	2168	G	Sidechain
35	BB	217	A	Sidechain
35	BB	2170	A	Sidechain
35	BB	2172	U	Sidechain
35	BB	2173	A	Sidechain
35	BB	2176	A	Sidechain
35	BB	2178	C	Sidechain
35	BB	218	A	Sidechain
35	BB	2180	U	Sidechain
35	BB	2181	U	Sidechain
35	BB	2182	U	Sidechain
35	BB	2183	A	Sidechain
35	BB	2186	G	Sidechain
35	BB	2187	U	Sidechain
35	BB	2189	U	Sidechain
35	BB	219	A	Sidechain
35	BB	2190	G	Sidechain
35	BB	2192	U	Sidechain
35	BB	2197	U	Sidechain
35	BB	220	G	Sidechain
35	BB	2201	G	Sidechain
35	BB	2203	U	Sidechain
35	BB	2204	G	Sidechain
35	BB	2205	A	Sidechain
35	BB	2206	C	Sidechain
35	BB	2209	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	221	A	Sidechain
35	BB	2213	U	Sidechain
35	BB	2219	U	Sidechain
35	BB	2222	C	Sidechain
35	BB	2224	G	Sidechain
35	BB	2226	C	Sidechain
35	BB	2227	A	Sidechain
35	BB	2228	G	Sidechain
35	BB	223	A	Sidechain
35	BB	2230	G	Sidechain
35	BB	2231	U	Sidechain
35	BB	2234	G	Sidechain
35	BB	2238	G	Sidechain
35	BB	2239	G	Sidechain
35	BB	2240	U	Sidechain
35	BB	2242	G	Sidechain
35	BB	2243	U	Sidechain
35	BB	2247	A	Sidechain
35	BB	2249	U	Sidechain
35	BB	2251	G	Sidechain
35	BB	2252	G	Sidechain
35	BB	2253	G	Sidechain
35	BB	2256	G	Sidechain
35	BB	2258	C	Sidechain
35	BB	2261	C	Sidechain
35	BB	2262	U	Sidechain
35	BB	2267	A	Sidechain
35	BB	2268	A	Sidechain
35	BB	2269	G	Sidechain
35	BB	2271	G	Sidechain
35	BB	2272	U	Sidechain
35	BB	2279	G	Sidechain
35	BB	2281	A	Sidechain
35	BB	2282	G	Sidechain
35	BB	2285	C	Sidechain
35	BB	2287	A	Sidechain
35	BB	2288	A	Sidechain
35	BB	2289	G	Sidechain
35	BB	229	C	Sidechain
35	BB	2290	G	Sidechain
35	BB	2292	U	Sidechain
35	BB	2294	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	2296	U	Sidechain
35	BB	2297	A	Sidechain
35	BB	2299	U	Sidechain
35	BB	23	G	Sidechain
35	BB	230	G	Sidechain
35	BB	2300	C	Sidechain
35	BB	2301	C	Sidechain
35	BB	2302	U	Sidechain
35	BB	2303	G	Sidechain
35	BB	2305	U	Sidechain
35	BB	2307	G	Sidechain
35	BB	2308	G	Sidechain
35	BB	231	A	Sidechain
35	BB	2310	C	Sidechain
35	BB	2312	U	Sidechain
35	BB	2313	C	Sidechain
35	BB	2316	G	Sidechain
35	BB	2317	A	Sidechain
35	BB	2318	G	Sidechain
35	BB	232	G	Sidechain
35	BB	2320	U	Sidechain
35	BB	2322	A	Sidechain
35	BB	2327	A	Sidechain
35	BB	2329	U	Sidechain
35	BB	2330	G	Sidechain
35	BB	2333	A	Sidechain
35	BB	2335	A	Sidechain
35	BB	2336	A	Sidechain
35	BB	234	U	Sidechain
35	BB	2340	A	Sidechain
35	BB	2343	U	Sidechain
35	BB	2345	G	Sidechain
35	BB	2348	U	Sidechain
35	BB	235	U	Sidechain
35	BB	2350	C	Sidechain
35	BB	2352	A	Sidechain
35	BB	2355	G	Sidechain
35	BB	2356	U	Sidechain
35	BB	2357	G	Sidechain
35	BB	236	C	Sidechain
35	BB	2360	G	Sidechain
35	BB	2362	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	2363	G	Sidechain
35	BB	2368	C	Sidechain
35	BB	2369	A	Sidechain
35	BB	237	C	Sidechain
35	BB	2372	U	Sidechain
35	BB	2375	G	Sidechain
35	BB	2379	G	Sidechain
35	BB	2381	A	Sidechain
35	BB	2382	G	Sidechain
35	BB	2383	G	Sidechain
35	BB	2385	C	Sidechain
35	BB	2388	A	Sidechain
35	BB	2389	G	Sidechain
35	BB	2390	U	Sidechain
35	BB	2392	A	Sidechain
35	BB	2393	U	Sidechain
35	BB	24	G	Sidechain
35	BB	2400	G	Sidechain
35	BB	2401	U	Sidechain
35	BB	2402	U	Sidechain
35	BB	2403	C	Sidechain
35	BB	2404	U	Sidechain
35	BB	2405	G	Sidechain
35	BB	2406	A	Sidechain
35	BB	2407	A	Sidechain
35	BB	2408	U	Sidechain
35	BB	2410	G	Sidechain
35	BB	2412	A	Sidechain
35	BB	2414	G	Sidechain
35	BB	2415	G	Sidechain
35	BB	242	G	Sidechain
35	BB	2428	G	Sidechain
35	BB	2429	G	Sidechain
35	BB	243	U	Sidechain
35	BB	2432	A	Sidechain
35	BB	2437	G	Sidechain
35	BB	2440	C	Sidechain
35	BB	2441	U	Sidechain
35	BB	2442	C	Sidechain
35	BB	2444	G	Sidechain
35	BB	2447	G	Sidechain
35	BB	2448	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	2449	U	Sidechain
35	BB	245	G	Sidechain
35	BB	2454	G	Sidechain
35	BB	2455	G	Sidechain
35	BB	2456	C	Sidechain
35	BB	2457	U	Sidechain
35	BB	2458	G	Sidechain
35	BB	2459	A	Sidechain
35	BB	246	C	Sidechain
35	BB	2461	A	Sidechain
35	BB	2462	C	Sidechain
35	BB	2467	C	Sidechain
35	BB	2469	A	Sidechain
35	BB	2471	A	Sidechain
35	BB	2472	G	Sidechain
35	BB	2475	C	Sidechain
35	BB	2476	A	Sidechain
35	BB	2477	U	Sidechain
35	BB	2479	U	Sidechain
35	BB	248	G	Sidechain
35	BB	2483	C	Sidechain
35	BB	2486	C	Sidechain
35	BB	2488	G	Sidechain
35	BB	249	C	Sidechain
35	BB	2491	U	Sidechain
35	BB	2492	U	Sidechain
35	BB	2494	G	Sidechain
35	BB	2495	G	Sidechain
35	BB	25	U	Sidechain
35	BB	2500	U	Sidechain
35	BB	2503	A	Sidechain
35	BB	2504	U	Sidechain
35	BB	2505	G	Sidechain
35	BB	2507	C	Sidechain
35	BB	251	A	Sidechain
35	BB	2515	C	Sidechain
35	BB	2516	A	Sidechain
35	BB	2517	C	Sidechain
35	BB	2523	G	Sidechain
35	BB	2525	G	Sidechain
35	BB	2528	U	Sidechain
35	BB	253	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	2530	A	Sidechain
35	BB	2532	G	Sidechain
35	BB	2534	A	Sidechain
35	BB	2535	G	Sidechain
35	BB	2536	G	Sidechain
35	BB	2538	C	Sidechain
35	BB	2540	C	Sidechain
35	BB	2541	A	Sidechain
35	BB	2542	A	Sidechain
35	BB	2546	U	Sidechain
35	BB	255	A	Sidechain
35	BB	2550	G	Sidechain
35	BB	2551	C	Sidechain
35	BB	2553	G	Sidechain
35	BB	2556	C	Sidechain
35	BB	2557	G	Sidechain
35	BB	2560	A	Sidechain
35	BB	2561	U	Sidechain
35	BB	2565	A	Sidechain
35	BB	2568	U	Sidechain
35	BB	257	C	Sidechain
35	BB	2570	G	Sidechain
35	BB	2572	A	Sidechain
35	BB	2574	G	Sidechain
35	BB	2576	G	Sidechain
35	BB	2578	G	Sidechain
35	BB	2580	U	Sidechain
35	BB	2581	G	Sidechain
35	BB	2582	G	Sidechain
35	BB	2583	G	Sidechain
35	BB	2584	U	Sidechain
35	BB	2585	U	Sidechain
35	BB	2587	A	Sidechain
35	BB	2588	G	Sidechain
35	BB	2593	U	Sidechain
35	BB	2596	U	Sidechain
35	BB	2598	A	Sidechain
35	BB	26	G	Sidechain
35	BB	260	G	Sidechain
35	BB	2601	C	Sidechain
35	BB	2602	A	Sidechain
35	BB	2604	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	261	G	Sidechain
35	BB	2610	C	Sidechain
35	BB	2612	C	Sidechain
35	BB	2613	U	Sidechain
35	BB	2614	A	Sidechain
35	BB	2616	C	Sidechain
35	BB	2618	G	Sidechain
35	BB	2619	C	Sidechain
35	BB	262	A	Sidechain
35	BB	2620	C	Sidechain
35	BB	2622	U	Sidechain
35	BB	2624	G	Sidechain
35	BB	2627	G	Sidechain
35	BB	263	G	Sidechain
35	BB	2631	G	Sidechain
35	BB	2637	U	Sidechain
35	BB	264	C	Sidechain
35	BB	2641	G	Sidechain
35	BB	2643	G	Sidechain
35	BB	2645	G	Sidechain
35	BB	2648	G	Sidechain
35	BB	265	A	Sidechain
35	BB	2650	U	Sidechain
35	BB	2652	C	Sidechain
35	BB	2654	A	Sidechain
35	BB	2656	U	Sidechain
35	BB	2659	G	Sidechain
35	BB	2661	G	Sidechain
35	BB	2662	A	Sidechain
35	BB	2663	G	Sidechain
35	BB	2664	G	Sidechain
35	BB	2666	C	Sidechain
35	BB	2669	G	Sidechain
35	BB	2670	A	Sidechain
35	BB	2674	G	Sidechain
35	BB	2679	A	Sidechain
35	BB	268	C	Sidechain
35	BB	2680	U	Sidechain
35	BB	2683	C	Sidechain
35	BB	2685	G	Sidechain
35	BB	2688	G	Sidechain
35	BB	2689	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	2690	U	Sidechain
35	BB	2692	G	Sidechain
35	BB	2694	G	Sidechain
35	BB	2695	U	Sidechain
35	BB	2699	C	Sidechain
35	BB	2700	A	Sidechain
35	BB	2702	G	Sidechain
35	BB	2703	C	Sidechain
35	BB	2706	A	Sidechain
35	BB	2708	G	Sidechain
35	BB	271	G	Sidechain
35	BB	2711	A	Sidechain
35	BB	2713	U	Sidechain
35	BB	2715	C	Sidechain
35	BB	2716	C	Sidechain
35	BB	2717	C	Sidechain
35	BB	2720	U	Sidechain
35	BB	2722	G	Sidechain
35	BB	2724	U	Sidechain
35	BB	2727	A	Sidechain
35	BB	273	G	Sidechain
35	BB	2731	G	Sidechain
35	BB	2732	G	Sidechain
35	BB	2735	G	Sidechain
35	BB	2737	G	Sidechain
35	BB	2738	A	Sidechain
35	BB	2739	U	Sidechain
35	BB	274	C	Sidechain
35	BB	2741	A	Sidechain
35	BB	2742	G	Sidechain
35	BB	2744	G	Sidechain
35	BB	2746	U	Sidechain
35	BB	2751	G	Sidechain
35	BB	2756	U	Sidechain
35	BB	2759	G	Sidechain
35	BB	2765	A	Sidechain
35	BB	2766	A	Sidechain
35	BB	277	G	Sidechain
35	BB	2770	G	Sidechain
35	BB	2771	C	Sidechain
35	BB	2773	C	Sidechain
35	BB	2774	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	2775	G	Sidechain
35	BB	2776	A	Sidechain
35	BB	2778	A	Sidechain
35	BB	2779	U	Sidechain
35	BB	278	A	Sidechain
35	BB	2782	G	Sidechain
35	BB	2784	U	Sidechain
35	BB	2785	C	Sidechain
35	BB	2786	U	Sidechain
35	BB	2787	C	Sidechain
35	BB	2788	C	Sidechain
35	BB	279	A	Sidechain
35	BB	2790	U	Sidechain
35	BB	2791	G	Sidechain
35	BB	2792	A	Sidechain
35	BB	2794	C	Sidechain
35	BB	2798	U	Sidechain
35	BB	28	A	Sidechain
35	BB	280	U	Sidechain
35	BB	2802	G	Sidechain
35	BB	2804	U	Sidechain
35	BB	2806	C	Sidechain
35	BB	2809	A	Sidechain
35	BB	2810	A	Sidechain
35	BB	2813	A	Sidechain
35	BB	2816	G	Sidechain
35	BB	2818	U	Sidechain
35	BB	282	A	Sidechain
35	BB	2828	G	Sidechain
35	BB	2829	A	Sidechain
35	BB	2831	G	Sidechain
35	BB	2832	U	Sidechain
35	BB	2838	G	Sidechain
35	BB	2847	U	Sidechain
35	BB	2848	G	Sidechain
35	BB	2849	U	Sidechain
35	BB	285	G	Sidechain
35	BB	2850	A	Sidechain
35	BB	2851	A	Sidechain
35	BB	2854	G	Sidechain
35	BB	2856	A	Sidechain
35	BB	2858	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	286	U	Sidechain
35	BB	2866	U	Sidechain
35	BB	2867	G	Sidechain
35	BB	287	G	Sidechain
35	BB	2872	A	Sidechain
35	BB	2874	C	Sidechain
35	BB	2876	G	Sidechain
35	BB	2877	G	Sidechain
35	BB	2879	A	Sidechain
35	BB	2881	U	Sidechain
35	BB	2884	U	Sidechain
35	BB	2885	G	Sidechain
35	BB	2886	A	Sidechain
35	BB	2888	C	Sidechain
35	BB	289	G	Sidechain
35	BB	2890	G	Sidechain
35	BB	2891	U	Sidechain
35	BB	2892	G	Sidechain
35	BB	2895	G	Sidechain
35	BB	2897	U	Sidechain
35	BB	2900	A	Sidechain
35	BB	2901	C	Sidechain
35	BB	2902	C	Sidechain
35	BB	2903	U	Sidechain
35	BB	292	U	Sidechain
35	BB	293	U	Sidechain
35	BB	294	A	Sidechain
35	BB	295	G	Sidechain
35	BB	300	A	Sidechain
35	BB	303	G	Sidechain
35	BB	304	U	Sidechain
35	BB	309	A	Sidechain
35	BB	310	A	Sidechain
35	BB	313	G	Sidechain
35	BB	316	C	Sidechain
35	BB	321	U	Sidechain
35	BB	324	A	Sidechain
35	BB	325	G	Sidechain
35	BB	327	G	Sidechain
35	BB	333	G	Sidechain
35	BB	336	C	Sidechain
35	BB	338	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	339	U	Sidechain
35	BB	340	A	Sidechain
35	BB	344	A	Sidechain
35	BB	345	A	Sidechain
35	BB	346	A	Sidechain
35	BB	347	A	Sidechain
35	BB	35	G	Sidechain
35	BB	350	G	Sidechain
35	BB	352	A	Sidechain
35	BB	353	C	Sidechain
35	BB	354	A	Sidechain
35	BB	356	G	Sidechain
35	BB	358	U	Sidechain
35	BB	359	G	Sidechain
35	BB	36	G	Sidechain
35	BB	361	G	Sidechain
35	BB	363	G	Sidechain
35	BB	364	C	Sidechain
35	BB	366	C	Sidechain
35	BB	367	G	Sidechain
35	BB	37	C	Sidechain
35	BB	370	G	Sidechain
35	BB	372	G	Sidechain
35	BB	373	U	Sidechain
35	BB	376	G	Sidechain
35	BB	377	G	Sidechain
35	BB	379	G	Sidechain
35	BB	381	G	Sidechain
35	BB	385	C	Sidechain
35	BB	387	U	Sidechain
35	BB	388	G	Sidechain
35	BB	39	G	Sidechain
35	BB	390	U	Sidechain
35	BB	392	U	Sidechain
35	BB	395	U	Sidechain
35	BB	40	U	Sidechain
35	BB	400	G	Sidechain
35	BB	401	A	Sidechain
35	BB	402	A	Sidechain
35	BB	404	A	Sidechain
35	BB	405	U	Sidechain
35	BB	407	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	410	G	Sidechain
35	BB	411	G	Sidechain
35	BB	414	C	Sidechain
35	BB	415	A	Sidechain
35	BB	417	C	Sidechain
35	BB	419	U	Sidechain
35	BB	420	C	Sidechain
35	BB	421	C	Sidechain
35	BB	422	A	Sidechain
35	BB	426	C	Sidechain
35	BB	428	A	Sidechain
35	BB	429	A	Sidechain
35	BB	43	G	Sidechain
35	BB	431	U	Sidechain
35	BB	434	U	Sidechain
35	BB	437	U	Sidechain
35	BB	438	G	Sidechain
35	BB	442	G	Sidechain
35	BB	443	A	Sidechain
35	BB	446	G	Sidechain
35	BB	449	A	Sidechain
35	BB	450	G	Sidechain
35	BB	452	G	Sidechain
35	BB	457	A	Sidechain
35	BB	458	G	Sidechain
35	BB	459	U	Sidechain
35	BB	46	G	Sidechain
35	BB	463	G	Sidechain
35	BB	464	U	Sidechain
35	BB	465	G	Sidechain
35	BB	466	A	Sidechain
35	BB	467	G	Sidechain
35	BB	468	G	Sidechain
35	BB	472	A	Sidechain
35	BB	473	G	Sidechain
35	BB	475	C	Sidechain
35	BB	479	A	Sidechain
35	BB	480	A	Sidechain
35	BB	484	C	Sidechain
35	BB	485	C	Sidechain
35	BB	488	G	Sidechain
35	BB	489	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	491	G	Sidechain
35	BB	492	A	Sidechain
35	BB	494	G	Sidechain
35	BB	495	G	Sidechain
35	BB	497	A	Sidechain
35	BB	499	U	Sidechain
35	BB	5	A	Sidechain
35	BB	50	U	Sidechain
35	BB	500	G	Sidechain
35	BB	501	A	Sidechain
35	BB	505	A	Sidechain
35	BB	506	G	Sidechain
35	BB	507	A	Sidechain
35	BB	508	A	Sidechain
35	BB	51	G	Sidechain
35	BB	510	C	Sidechain
35	BB	511	U	Sidechain
35	BB	512	G	Sidechain
35	BB	513	A	Sidechain
35	BB	514	A	Sidechain
35	BB	52	A	Sidechain
35	BB	520	G	Sidechain
35	BB	521	U	Sidechain
35	BB	530	G	Sidechain
35	BB	532	A	Sidechain
35	BB	537	G	Sidechain
35	BB	539	G	Sidechain
35	BB	54	G	Sidechain
35	BB	542	C	Sidechain
35	BB	543	G	Sidechain
35	BB	544	C	Sidechain
35	BB	546	U	Sidechain
35	BB	548	G	Sidechain
35	BB	55	G	Sidechain
35	BB	551	G	Sidechain
35	BB	553	G	Sidechain
35	BB	555	G	Sidechain
35	BB	565	C	Sidechain
35	BB	567	U	Sidechain
35	BB	568	U	Sidechain
35	BB	569	U	Sidechain
35	BB	570	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	574	A	Sidechain
35	BB	575	A	Sidechain
35	BB	577	G	Sidechain
35	BB	578	G	Sidechain
35	BB	580	U	Sidechain
35	BB	590	A	Sidechain
35	BB	594	U	Sidechain
35	BB	596	U	Sidechain
35	BB	597	G	Sidechain
35	BB	598	U	Sidechain
35	BB	599	A	Sidechain
35	BB	60	G	Sidechain
35	BB	600	G	Sidechain
35	BB	602	A	Sidechain
35	BB	610	C	Sidechain
35	BB	611	C	Sidechain
35	BB	612	G	Sidechain
35	BB	615	U	Sidechain
35	BB	616	A	Sidechain
35	BB	617	G	Sidechain
35	BB	619	G	Sidechain
35	BB	62	U	Sidechain
35	BB	622	G	Sidechain
35	BB	624	C	Sidechain
35	BB	625	G	Sidechain
35	BB	628	G	Sidechain
35	BB	629	G	Sidechain
35	BB	630	G	Sidechain
35	BB	631	A	Sidechain
35	BB	633	A	Sidechain
35	BB	634	C	Sidechain
35	BB	635	C	Sidechain
35	BB	636	G	Sidechain
35	BB	638	G	Sidechain
35	BB	64	A	Sidechain
35	BB	640	C	Sidechain
35	BB	642	U	Sidechain
35	BB	645	C	Sidechain
35	BB	646	U	Sidechain
35	BB	647	G	Sidechain
35	BB	648	G	Sidechain
35	BB	650	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	651	G	Sidechain
35	BB	653	U	Sidechain
35	BB	658	U	Sidechain
35	BB	659	G	Sidechain
35	BB	66	C	Sidechain
35	BB	660	C	Sidechain
35	BB	661	A	Sidechain
35	BB	663	G	Sidechain
35	BB	664	G	Sidechain
35	BB	668	A	Sidechain
35	BB	669	G	Sidechain
35	BB	673	C	Sidechain
35	BB	674	G	Sidechain
35	BB	675	A	Sidechain
35	BB	676	A	Sidechain
35	BB	68	G	Sidechain
35	BB	680	C	Sidechain
35	BB	682	G	Sidechain
35	BB	685	A	Sidechain
35	BB	686	U	Sidechain
35	BB	687	C	Sidechain
35	BB	688	U	Sidechain
35	BB	689	A	Sidechain
35	BB	696	G	Sidechain
35	BB	698	C	Sidechain
35	BB	70	G	Sidechain
35	BB	700	G	Sidechain
35	BB	703	U	Sidechain
35	BB	704	G	Sidechain
35	BB	708	G	Sidechain
35	BB	710	U	Sidechain
35	BB	711	G	Sidechain
35	BB	712	G	Sidechain
35	BB	713	G	Sidechain
35	BB	714	U	Sidechain
35	BB	715	A	Sidechain
35	BB	720	U	Sidechain
35	BB	722	A	Sidechain
35	BB	723	C	Sidechain
35	BB	725	G	Sidechain
35	BB	726	G	Sidechain
35	BB	728	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	730	A	Sidechain
35	BB	732	C	Sidechain
35	BB	733	G	Sidechain
35	BB	737	C	Sidechain
35	BB	738	G	Sidechain
35	BB	744	U	Sidechain
35	BB	748	G	Sidechain
35	BB	749	A	Sidechain
35	BB	75	G	Sidechain
35	BB	750	A	Sidechain
35	BB	752	A	Sidechain
35	BB	755	U	Sidechain
35	BB	758	C	Sidechain
35	BB	76	C	Sidechain
35	BB	760	G	Sidechain
35	BB	761	A	Sidechain
35	BB	763	G	Sidechain
35	BB	764	A	Sidechain
35	BB	767	U	Sidechain
35	BB	77	G	Sidechain
35	BB	771	G	Sidechain
35	BB	772	C	Sidechain
35	BB	773	U	Sidechain
35	BB	774	G	Sidechain
35	BB	775	G	Sidechain
35	BB	778	G	Sidechain
35	BB	78	U	Sidechain
35	BB	780	G	Sidechain
35	BB	784	G	Sidechain
35	BB	785	G	Sidechain
35	BB	787	C	Sidechain
35	BB	79	C	Sidechain
35	BB	791	C	Sidechain
35	BB	794	A	Sidechain
35	BB	795	C	Sidechain
35	BB	797	G	Sidechain
35	BB	798	G	Sidechain
35	BB	799	G	Sidechain
35	BB	800	A	Sidechain
35	BB	801	G	Sidechain
35	BB	805	G	Sidechain
35	BB	809	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	81	G	Sidechain
35	BB	811	U	Sidechain
35	BB	814	C	Sidechain
35	BB	817	C	Sidechain
35	BB	82	U	Sidechain
35	BB	820	A	Sidechain
35	BB	821	A	Sidechain
35	BB	823	C	Sidechain
35	BB	824	U	Sidechain
35	BB	826	U	Sidechain
35	BB	830	G	Sidechain
35	BB	833	A	Sidechain
35	BB	838	C	Sidechain
35	BB	84	A	Sidechain
35	BB	842	U	Sidechain
35	BB	847	U	Sidechain
35	BB	849	A	Sidechain
35	BB	85	G	Sidechain
35	BB	852	U	Sidechain
35	BB	857	G	Sidechain
35	BB	858	G	Sidechain
35	BB	859	G	Sidechain
35	BB	86	G	Sidechain
35	BB	863	A	Sidechain
35	BB	864	G	Sidechain
35	BB	869	G	Sidechain
35	BB	871	U	Sidechain
35	BB	872	U	Sidechain
35	BB	877	A	Sidechain
35	BB	88	G	Sidechain
35	BB	880	G	Sidechain
35	BB	882	G	Sidechain
35	BB	883	G	Sidechain
35	BB	887	U	Sidechain
35	BB	89	A	Sidechain
35	BB	891	G	Sidechain
35	BB	892	A	Sidechain
35	BB	894	U	Sidechain
35	BB	896	A	Sidechain
35	BB	897	C	Sidechain
35	BB	898	C	Sidechain
35	BB	899	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	9	G	Sidechain
35	BB	901	C	Sidechain
35	BB	903	C	Sidechain
35	BB	906	U	Sidechain
35	BB	907	G	Sidechain
35	BB	909	A	Sidechain
35	BB	91	A	Sidechain
35	BB	911	A	Sidechain
35	BB	912	C	Sidechain
35	BB	915	C	Sidechain
35	BB	917	A	Sidechain
35	BB	919	U	Sidechain
35	BB	921	C	Sidechain
35	BB	924	G	Sidechain
35	BB	926	G	Sidechain
35	BB	93	G	Sidechain
35	BB	933	A	Sidechain
35	BB	937	C	Sidechain
35	BB	938	G	Sidechain
35	BB	939	G	Sidechain
35	BB	943	A	Sidechain
35	BB	945	A	Sidechain
35	BB	946	C	Sidechain
35	BB	947	A	Sidechain
35	BB	949	G	Sidechain
35	BB	95	A	Sidechain
35	BB	950	G	Sidechain
35	BB	952	G	Sidechain
35	BB	953	G	Sidechain
35	BB	954	G	Sidechain
35	BB	955	U	Sidechain
35	BB	956	G	Sidechain
35	BB	957	C	Sidechain
35	BB	958	U	Sidechain
35	BB	959	A	Sidechain
35	BB	96	C	Sidechain
35	BB	962	G	Sidechain
35	BB	963	U	Sidechain
35	BB	966	G	Sidechain
35	BB	968	C	Sidechain
35	BB	969	G	Sidechain
35	BB	971	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BB	972	A	Sidechain
35	BB	974	G	Sidechain
35	BB	976	G	Sidechain
35	BB	979	A	Sidechain
35	BB	98	G	Sidechain
35	BB	980	A	Sidechain
35	BB	981	A	Sidechain
35	BB	982	C	Sidechain
35	BB	984	A	Sidechain
35	BB	988	A	Sidechain
35	BB	989	G	Sidechain
35	BB	991	C	Sidechain
35	BB	995	C	Sidechain
35	BB	998	C	Sidechain
36	BC	132	ARG	Sidechain
36	BC	174	ARG	Sidechain
36	BC	188	ARG	Sidechain
36	BC	261	ARG	Sidechain
36	BC	269	ARG	Sidechain
36	BC	61	TYR	Sidechain
36	BC	82	TYR	Sidechain
36	BC	86	ARG	Sidechain
37	BD	124	ARG	Sidechain
37	BD	13	ARG	Sidechain
37	BD	151	THR	Peptide
37	BD	156	PHE	Sidechain
37	BD	184	ARG	Sidechain
37	BD	89	GLU	Peptide
38	BE	117	ARG	Sidechain
38	BE	170	ARG	Sidechain
38	BE	49	ARG	Sidechain
38	BE	57	LYS	Peptide
38	BE	88	ARG	Peptide
39	BF	111	ARG	Sidechain
39	BF	124	ARG	Sidechain
39	BF	127	TYR	Sidechain
39	BF	142	TYR	Sidechain
39	BF	147	ARG	Sidechain
39	BF	173	ASP	Peptide
39	BF	18	GLU	Peptide
39	BF	21	TYR	Sidechain
39	BF	6	TYR	Sidechain

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Mol	Chain	Res	Type	Group
39	BF	82	TYR	Sidechain
40	BG	150	TYR	Sidechain
40	BG	156	TYR	Sidechain
40	BG	83	THR	Peptide
41	BH	31	VAL	Peptide
43	BJ	112	GLY	Peptide
43	BJ	13	ARG	Sidechain
43	BJ	16	TYR	Sidechain
43	BJ	35	ARG	Sidechain
44	BK	17	ARG	Sidechain
44	BK	30	ARG	Sidechain
44	BK	70	ARG	Peptide
44	BK	71	ARG	Peptide
44	BK	88	ASN	Peptide
45	BL	41	ARG	Sidechain
46	BM	10	ARG	Sidechain
46	BM	37	GLY	Peptide
46	BM	66	ARG	Sidechain
47	BN	112	TYR	Sidechain
47	BN	4	ARG	Sidechain
47	BN	80	PHE	Sidechain
47	BN	86	ARG	Sidechain
47	BN	95	THR	Peptide
48	BO	102	ARG	Sidechain
48	BO	13	ARG	Sidechain
49	BP	108	ARG	Sidechain
49	BP	51	ASN	Peptide
49	BP	60	VAL	Peptide
49	BP	61	ARG	Sidechain
49	BP	97	TYR	Sidechain
50	BQ	10	ARG	Sidechain
50	BQ	23	TYR	Sidechain
50	BQ	24	TYR	Sidechain
50	BQ	57	ARG	Sidechain
50	BQ	6	GLY	Peptide
51	BR	21	ARG	Sidechain
51	BR	89	HIS	Sidechain
51	BR	90	ARG	Sidechain
52	BS	25	ARG	Sidechain
53	BT	76	ARG	Sidechain
54	BU	6	ARG	Sidechain
54	BU	95	PHE	Sidechain

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Mol	Chain	Res	Type	Group
55	BW	18	ARG	Sidechain
55	BW	19	ARG	Sidechain
55	BW	57	TYR	Sidechain
55	BW	82	TYR	Sidechain
56	BY	19	ARG	Sidechain
56	BY	34	SER	Mainchain
56	BY	40	ARG	Sidechain
56	BY	54	ARG	Sidechain
56	BY	68	PHE	Peptide

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	32831	0	16502	183	0
2	AB	1704	0	1732	3	0
3	AC	1624	0	1699	12	0
4	AD	1643	0	1710	5	0
5	AE	1105	0	1148	6	0
6	AF	817	0	808	7	0
7	AG	1174	0	1230	5	0
8	AH	979	0	1034	1	0
9	AI	1022	0	1070	9	0
10	AJ	786	0	828	3	0
11	AK	877	0	887	9	0
12	AL	955	0	1019	2	0
13	AM	876	0	937	7	0
14	AN	774	0	827	2	0
15	AO	716	0	742	3	0
16	AP	638	0	656	0	0
17	AQ	648	0	691	4	0
18	AR	455	0	478	1	0
19	AS	637	0	665	5	0
20	AT	665	0	714	4	0
21	AU	425	0	449	2	0
22	AV	1649	0	832	21	0
23	AX	236	0	121	10	0
24	AZ	100	0	99	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	B0	625	0	655	1	0
26	B1	509	0	543	1	0
27	B2	449	0	491	1	0
28	B3	444	0	461	3	0
29	B4	409	0	440	0	0
30	B5	1733	0	1824	4	0
31	B6	377	0	418	3	0
32	B7	504	0	574	5	0
33	B8	302	0	343	0	0
34	BA	2464	0	1246	8	0
35	BB	62321	0	31294	336	0
36	BC	2082	0	2157	14	0
37	BD	1565	0	1616	8	0
38	BE	1552	0	1619	9	0
39	BF	1420	0	1460	9	0
40	BG	1316	0	1364	4	0
41	BH	1111	0	1148	1	0
42	BI	1032	0	1088	118	0
43	BJ	1129	0	1162	8	0
44	BK	930	0	1003	6	0
45	BL	1045	0	1117	6	0
46	BM	1074	0	1157	4	0
47	BN	960	0	1000	2	0
48	BO	892	0	923	2	0
49	BP	917	0	965	4	0
50	BQ	947	0	1022	8	0
51	BR	816	0	839	8	0
52	BS	857	0	922	3	0
53	BT	738	0	807	5	0
54	BU	755	0	807	10	0
55	BW	753	0	780	5	0
56	BY	596	0	610	1	0
All	All	145960	0	98733	840	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 3.

All (840) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:35:G:N2	23:AX:18:C:C2	2.08	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BI:11:GLN:HG2	42:BI:55:PRO:HB3	1.51	0.91
42:BI:140:GLU:O	42:BI:141:ASP:OXT	1.91	0.89
42:BI:27:LEU:HD23	42:BI:27:LEU:H	1.43	0.82
42:BI:121:ILE:HD13	42:BI:121:ILE:H	1.44	0.82
42:BI:21:PRO:HB2	42:BI:22:PRO:HD3	1.63	0.80
42:BI:9:LYS:HG2	42:BI:57:VAL:HG13	1.63	0.79
42:BI:45:THR:HA	42:BI:48:ILE:HG22	1.66	0.78
42:BI:105:LEU:HD13	42:BI:129:GLU:HG2	1.67	0.76
42:BI:102:ARG:HG3	42:BI:141:ASP:HA	1.66	0.75
42:BI:72:THR:HG21	42:BI:112:LYS:HA	1.69	0.75
42:BI:20:SER:HB3	42:BI:21:PRO:HD3	1.69	0.74
42:BI:55:PRO:HD3	42:BI:74:PRO:HD3	1.70	0.74
22:AV:35:G:N2	23:AX:18:C:N3	2.35	0.74
22:AV:35:G:C2	23:AX:18:C:C2	2.79	0.71
36:BC:257:ARG:HE	36:BC:260:LYS:H	1.39	0.70
42:BI:105:LEU:HD11	42:BI:139:VAL:HG21	1.73	0.70
42:BI:85:ILE:HD13	42:BI:137:LEU:HD21	1.73	0.70
42:BI:73:PRO:HG2	42:BI:78:LEU:HD21	1.75	0.69
54:BU:82:VAL:HG11	54:BU:93:ARG:HH11	1.56	0.69
50:BQ:87:VAL:HG12	51:BR:39:LEU:HD22	1.76	0.68
1:AA:827:U:H2'	1:AA:870:U:H3	1.59	0.67
35:BB:2091:C:H3'	35:BB:2092:U:H5"	1.77	0.67
1:AA:781:A:H2'	1:AA:782:A:H5'	1.75	0.67
5:AE:137:ARG:HE	5:AE:137:ARG:HA	1.60	0.67
35:BB:2132:U:H3'	35:BB:2132:U:H6	1.60	0.66
42:BI:112:LYS:O	42:BI:116:MET:HG3	1.96	0.66
35:BB:1082:U:C4	35:BB:1086:A:C2	2.84	0.65
35:BB:962:G:H21	35:BB:2250:G:H1	1.43	0.65
35:BB:877:A:C2	35:BB:901:C:C2	2.84	0.65
42:BI:121:ILE:HD13	42:BI:121:ILE:N	2.12	0.64
35:BB:900:A:H2'	35:BB:901:C:H5'	1.79	0.64
42:BI:27:LEU:HD12	42:BI:32:VAL:HG11	1.78	0.64
54:BU:35:VAL:H	54:BU:39:ASN:HD21	1.45	0.64
42:BI:123:ALA:HA	42:BI:126:ARG:HH12	1.63	0.64
1:AA:243:A:H4'	1:AA:244:U:H5'	1.78	0.63
42:BI:41:PHE:O	42:BI:45:THR:HG23	1.98	0.63
35:BB:1358:G:C2	35:BB:1372:U:C5	2.87	0.63
1:AA:1305:G:H21	1:AA:1332:A:H8	1.46	0.63
1:AA:764:C:H2'	1:AA:765:G:H5'	1.81	0.62
53:BT:15:HIS:CE1	53:BT:17:SER:HB2	2.34	0.62
42:BI:72:THR:HG22	42:BI:115:ASP:OD2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BI:42:ASN:HA	42:BI:45:THR:OG1	1.99	0.62
42:BI:78:LEU:HA	42:BI:81:LYS:HE2	1.82	0.62
22:AV:35:G:C2	23:AX:18:C:N3	2.68	0.61
35:BB:28:A:C2	35:BB:513:A:C8	2.88	0.61
35:BB:1082:U:C5	35:BB:1083:U:C5	2.88	0.61
42:BI:27:LEU:H	42:BI:27:LEU:CD2	2.13	0.61
35:BB:2132:U:H3'	35:BB:2132:U:C6	2.35	0.61
42:BI:20:SER:O	42:BI:25:PRO:HD2	2.00	0.61
35:BB:2091:C:H3'	35:BB:2092:U:C5'	2.31	0.61
35:BB:940:G:H2'	35:BB:941:A:H4'	1.83	0.61
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.82	0.61
42:BI:121:ILE:H	42:BI:121:ILE:CD1	2.14	0.60
35:BB:1024:G:H3'	35:BB:1025:G:H5"	1.82	0.60
45:BL:81:ASP:HA	45:BL:84:LYS:HD2	1.83	0.60
9:AI:83:THR:HG22	9:AI:97:LEU:HD22	1.84	0.60
35:BB:337:C:C5	35:BB:338:G:C8	2.89	0.60
49:BP:77:SER:HB3	49:BP:80:VAL:HG23	1.84	0.60
1:AA:920:U:H2'	1:AA:921:U:C6	2.37	0.60
35:BB:571:U:C5	35:BB:575:A:C6	2.90	0.59
46:BM:33:LEU:HD11	46:BM:117:PHE:HB3	1.84	0.59
42:BI:32:VAL:HG22	42:BI:60:VAL:HG21	1.85	0.59
1:AA:1526:G:OP1	21:AU:37:TYR:CG	2.55	0.59
9:AI:10:ARG:H	9:AI:80:HIS:CD2	2.21	0.59
35:BB:1216:G:H5"	50:BQ:10:ARG:HH12	1.65	0.59
23:AX:17:C:H2'	23:AX:18:C:C5	2.38	0.59
1:AA:979:C:H3'	1:AA:980:C:C6	2.38	0.58
36:BC:141:HIS:CE1	36:BC:190:THR:HB	2.38	0.58
42:BI:25:PRO:O	42:BI:29:GLN:HG3	2.03	0.58
35:BB:1551:A:H3'	35:BB:1552:A:H5"	1.84	0.58
1:AA:82:G:H3'	1:AA:83:C:H4'	1.85	0.58
1:AA:673:A:H4'	6:AF:86:ARG:HE	1.69	0.58
1:AA:1306:A:C2	1:AA:1332:A:H1'	2.39	0.58
39:BF:4:HIS:HB2	39:BF:96:TRP:CE2	2.39	0.57
51:BR:36:ALA:HB2	51:BR:58:VAL:HG12	1.86	0.57
42:BI:99:LYS:HD3	42:BI:99:LYS:H	1.69	0.57
1:AA:1526:G:C4	1:AA:1527:U:C5	2.93	0.57
35:BB:1978:A:C5	35:BB:1979:U:C5	2.92	0.57
42:BI:45:THR:CA	42:BI:48:ILE:HG22	2.35	0.57
35:BB:2123:G:H22	35:BB:2176:A:H1'	1.70	0.57
39:BF:134:GLN:HE21	39:BF:149:ARG:HD2	1.68	0.57
1:AA:667:G:H4'	15:AO:50:HIS:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1437:C:H2'	35:BB:1438:U:C6	2.39	0.57
42:BI:37:PHE:CZ	42:BI:58:ILE:HD11	2.40	0.57
35:BB:1803:A:C8	35:BB:1804:C:C6	2.93	0.56
42:BI:108:ILE:HG22	42:BI:128:ILE:HD13	1.88	0.56
51:BR:26:ASP:O	51:BR:27:ILE:HG22	2.05	0.56
42:BI:17:ALA:O	42:BI:18:ASN:CB	2.54	0.56
42:BI:125:THR:O	42:BI:129:GLU:HG3	2.05	0.56
30:B5:1:MET:HE1	35:BB:2175:C:H5	1.71	0.56
35:BB:641:U:C5	35:BB:642:U:C4	2.94	0.56
35:BB:1082:U:N3	35:BB:1086:A:C2	2.74	0.56
1:AA:350:G:H2'	1:AA:351:G:C8	2.41	0.56
35:BB:250:G:C6	35:BB:251:A:C6	2.94	0.56
1:AA:413:G:H21	1:AA:428:G:H1'	1.70	0.56
7:AG:78:ARG:HE	23:AX:13:A:N6	2.04	0.56
35:BB:851:C:H2'	35:BB:852:U:C6	2.41	0.56
1:AA:516:U:C4	1:AA:517:G:C6	2.94	0.56
32:B7:60:CYS:O	32:B7:61:LEU:HD23	2.06	0.56
55:BW:44:HIS:CE1	55:BW:85:LYS:HA	2.41	0.56
35:BB:1273:U:H5'	47:BN:12:ARG:HH12	1.71	0.55
42:BI:129:GLU:HB3	42:BI:133:ARG:HH12	1.71	0.55
35:BB:98:G:H22	54:BU:6:ARG:HH22	1.54	0.55
35:BB:877:A:C6	35:BB:901:C:N3	2.75	0.55
35:BB:418:C:C4	35:BB:419:U:C4	2.94	0.55
56:BY:51:GLY:HA2	56:BY:59:PHE:H	1.72	0.55
1:AA:973:G:H3'	1:AA:974:A:H5"	1.89	0.55
30:B5:1:MET:SD	35:BB:2174:C:H3'	2.47	0.55
1:AA:1111:A:H61	3:AC:175:HIS:HB3	1.72	0.55
35:BB:819:A:C4	35:BB:1189:A:C2	2.95	0.55
42:BI:54:ILE:HD13	42:BI:55:PRO:N	2.22	0.55
1:AA:1110:A:H3'	1:AA:1111:A:H8	1.72	0.55
6:AF:18:VAL:HG21	6:AF:58:HIS:CD2	2.42	0.55
35:BB:1100:C:H2'	35:BB:1101:U:H6	1.71	0.55
42:BI:49:GLU:CB	42:BI:52:LEU:HD12	2.37	0.55
35:BB:704:G:H2'	35:BB:726:G:H22	1.72	0.55
35:BB:1410:G:C6	35:BB:1411:U:C4	2.94	0.54
35:BB:1805:A:H5"	36:BC:247:TRP:CD2	2.43	0.54
1:AA:71:A:H61	1:AA:99:C:H1'	1.72	0.54
5:AE:33:THR:HG22	5:AE:34:ALA:H	1.72	0.54
11:AK:21:HIS:CE1	11:AK:23:HIS:HB2	2.42	0.54
35:BB:1269:A:H2'	35:BB:1270:C:C6	2.42	0.54
35:BB:2643:G:C6	35:BB:2644:G:C6	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:2308:G:H5'	35:BB:2308:G:C8	2.42	0.54
42:BI:71:LYS:HB3	42:BI:115:ASP:OD2	2.07	0.54
35:BB:880:G:H2'	35:BB:881:G:C8	2.43	0.54
35:BB:2147:A:H3'	35:BB:2148:G:H5'	1.88	0.54
35:BB:2229:U:H2'	35:BB:2230:G:H8	1.73	0.54
1:AA:818:G:H3'	1:AA:819:A:H5"	1.89	0.54
11:AK:20:ALA:HB2	11:AK:81:LEU:HD22	1.89	0.54
42:BI:76:ALA:HA	42:BI:135:MET:SD	2.48	0.54
35:BB:1022:G:C6	35:BB:1141:U:C5	2.96	0.54
35:BB:1057:A:C2	35:BB:1082:U:C2	2.95	0.54
35:BB:1311:G:H21	35:BB:1603:A:H62	1.55	0.54
35:BB:1483:G:C6	35:BB:1484:U:C4	2.96	0.54
35:BB:877:A:N1	35:BB:901:C:C2	2.76	0.54
42:BI:140:GLU:C	42:BI:141:ASP:OXT	2.38	0.54
42:BI:63:ASP:O	42:BI:64:ARG:HB2	2.08	0.53
35:BB:2128:G:C6	35:BB:2160:C:C5	2.96	0.53
5:AE:57:ALA:HA	5:AE:60:GLN:HB3	1.90	0.53
20:AT:24:ARG:HE	20:AT:28:ARG:HE	1.56	0.53
35:BB:2723:C:C4	35:BB:2724:U:C4	2.97	0.53
1:AA:1531:A:H2'	1:AA:1532:U:C6	2.43	0.53
1:AA:668:G:H21	15:AO:45:HIS:HE1	1.57	0.53
42:BI:52:LEU:HD22	42:BI:81:LYS:HD3	1.90	0.53
42:BI:99:LYS:HD3	42:BI:99:LYS:N	2.24	0.53
42:BI:57:VAL:HG23	42:BI:71:LYS:NZ	2.24	0.53
35:BB:396:G:C6	35:BB:397:U:C4	2.97	0.53
35:BB:1858:A:C2	35:BB:1885:A:H1'	2.44	0.53
18:AR:38:ILE:HG22	18:AR:39:VAL:H	1.73	0.52
44:BK:30:ARG:HH21	44:BK:33:ALA:HB1	1.74	0.52
6:AF:38:ARG:HH12	6:AF:96:VAL:HG12	1.74	0.52
42:BI:54:ILE:HD13	42:BI:54:ILE:C	2.30	0.52
1:AA:1446:A:H3'	1:AA:1447:A:H5"	1.91	0.52
35:BB:1065:U:H3	35:BB:1069:A:H2'	1.73	0.52
35:BB:15:G:C4	35:BB:16:C:C6	2.98	0.52
35:BB:962:G:N2	35:BB:2250:G:H1	2.08	0.52
42:BI:32:VAL:HG22	42:BI:60:VAL:CG2	2.40	0.52
36:BC:172:THR:HA	36:BC:182:LYS:HA	1.90	0.52
35:BB:1995:U:H2'	35:BB:1996:C:C5	2.44	0.52
42:BI:3:LYS:HG2	42:BI:4:VAL:H	1.75	0.52
42:BI:57:VAL:HG23	42:BI:71:LYS:HZ1	1.73	0.52
35:BB:19:A:C2	35:BB:522:A:C2	2.98	0.52
35:BB:1805:A:H4'	36:BC:247:TRP:CZ2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:2345:G:C4	35:BB:2347:C:C5	2.98	0.52
42:BI:85:ILE:CD1	42:BI:137:LEU:HD21	2.39	0.52
50:BQ:87:VAL:CG1	51:BR:39:LEU:HD22	2.40	0.52
1:AA:664:G:H22	1:AA:741:G:H1	1.57	0.51
35:BB:831:G:H22	45:BL:53:GLY:H	1.58	0.51
35:BB:870:U:C2'	35:BB:871:U:H5"	2.40	0.51
42:BI:79:LEU:HD11	42:BI:131:THR:OG1	2.09	0.51
46:BM:19:GLY:CA	46:BM:38:ARG:HH12	2.23	0.51
55:BW:4:ILE:HG21	55:BW:42:LEU:HD23	1.91	0.51
35:BB:2014:A:C2	35:BB:2015:A:N1	2.78	0.51
42:BI:21:PRO:CB	42:BI:22:PRO:HD3	2.38	0.51
1:AA:184:G:C6	1:AA:185:U:C4	2.98	0.51
1:AA:688:G:C6	1:AA:700:G:C5	2.98	0.51
35:BB:424:G:C6	35:BB:425:G:C5	2.99	0.51
43:BJ:77:HIS:CD2	43:BJ:79:GLY:H	2.29	0.51
35:BB:589:U:H2'	35:BB:590:A:C8	2.45	0.51
40:BG:96:ALA:HB2	40:BG:103:ASN:HD22	1.75	0.51
35:BB:720:U:H2'	35:BB:721:A:C8	2.46	0.51
35:BB:1844:C:H5'	36:BC:254:LYS:H	1.75	0.51
1:AA:646:G:C5	1:AA:647:C:C5	2.99	0.51
1:AA:1390:U:H2'	1:AA:1391:U:C6	2.46	0.51
42:BI:45:THR:HA	42:BI:48:ILE:CG2	2.39	0.51
22:AV:33:U:C4	22:AV:35:G:OP2	2.63	0.51
35:BB:1506:U:H2'	35:BB:1507:C:C6	2.46	0.51
1:AA:507:C:H3'	1:AA:508:U:H5"	1.92	0.51
42:BI:126:ARG:HH11	42:BI:126:ARG:HB3	1.76	0.51
1:AA:858:G:C5	1:AA:869:G:C5	2.98	0.51
2:AB:103:TRP:CH2	2:AB:107:ARG:HD2	2.46	0.51
7:AG:78:ARG:HE	23:AX:13:A:H61	1.59	0.51
1:AA:895:G:C5	1:AA:896:C:C5	2.99	0.51
35:BB:18:U:H2'	35:BB:19:A:C8	2.46	0.51
39:BF:4:HIS:HB2	39:BF:96:TRP:CD2	2.46	0.51
1:AA:699:C:H2'	1:AA:700:G:H5"	1.92	0.50
26:B1:25:GLN:HB3	26:B1:29:ARG:HH11	1.76	0.50
35:BB:15:G:C5	35:BB:16:C:C5	2.99	0.50
35:BB:2267:A:C8	35:BB:2267:A:H3'	2.45	0.50
30:B5:173:THR:HG21	30:B5:192:LEU:HG	1.93	0.50
35:BB:704:G:C2'	35:BB:726:G:H22	2.24	0.50
35:BB:2792:A:H3'	35:BB:2793:C:H5"	1.93	0.50
42:BI:52:LEU:HD13	42:BI:81:LYS:HZ3	1.77	0.50
35:BB:480:A:H3'	35:BB:481:G:H5"	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:2591:C:H2'	35:BB:2592:G:C8	2.46	0.50
42:BI:92:PRO:O	42:BI:93:ASN:HB2	2.12	0.50
42:BI:72:THR:HG23	42:BI:112:LYS:NZ	2.27	0.50
35:BB:1000:A:H2'	35:BB:1001:A:C8	2.47	0.50
35:BB:2233:U:H2'	35:BB:2234:G:C8	2.45	0.50
35:BB:294:A:C5	35:BB:345:A:C5	2.99	0.50
1:AA:1320:C:H42	19:AS:36:ARG:HH11	1.60	0.50
35:BB:1206:G:C5	35:BB:1207:C:C5	3.00	0.50
3:AC:174:LEU:HD23	3:AC:200:TRP:CZ3	2.47	0.49
23:AX:16:C:C4	23:AX:17:C:C5	3.00	0.49
35:BB:2851:A:C5	35:BB:2852:G:C5	3.00	0.49
42:BI:78:LEU:HD13	42:BI:108:ILE:HG23	1.93	0.49
1:AA:1012:A:C6	1:AA:1013:G:C6	3.00	0.49
35:BB:569:U:C4	35:BB:570:G:C6	3.00	0.49
35:BB:584:C:H5"	50:BQ:2:ARG:HH12	1.77	0.49
35:BB:2063:C:C5	35:BB:2064:C:C5	2.99	0.49
42:BI:10:LEU:O	42:BI:10:LEU:HD12	2.13	0.49
42:BI:24:GLY:HA2	42:BI:34:ILE:HD12	1.93	0.49
1:AA:914:A:C6	1:AA:915:A:C5	3.00	0.49
35:BB:2360:G:N2	35:BB:2428:G:C4	2.80	0.49
4:AD:145:ARG:HE	4:AD:148:ALA:HB2	1.77	0.49
10:AJ:39:PRO:HA	10:AJ:74:VAL:HA	1.94	0.49
35:BB:950:G:C5	35:BB:951:C:C5	3.00	0.49
35:BB:870:U:H2'	35:BB:871:U:H5"	1.94	0.49
1:AA:1492:A:H2'	35:BB:1913:A:C2	2.48	0.49
35:BB:1100:C:H2'	35:BB:1101:U:C6	2.48	0.49
43:BJ:47:HIS:CE1	43:BJ:48:VAL:HG22	2.48	0.49
35:BB:2131:U:O3'	35:BB:2132:U:H4'	2.13	0.49
35:BB:2557:G:H2'	35:BB:2558:C:C6	2.47	0.49
35:BB:2709:G:C6	35:BB:2710:C:C4	3.01	0.49
3:AC:48:LYS:HD2	3:AC:74:ILE:HG22	1.95	0.49
4:AD:9:LYS:O	4:AD:12:ARG:HB2	2.13	0.49
35:BB:204:A:O3'	35:BB:205:G:H4'	2.12	0.49
35:BB:2540:C:C4	35:BB:2541:A:C5	3.01	0.49
36:BC:70:LYS:H	36:BC:101:ARG:HH12	1.61	0.49
55:BW:30:ILE:HG23	55:BW:72:VAL:HG11	1.94	0.49
55:BW:80:HIS:CG	55:BW:81:PRO:HD2	2.48	0.49
1:AA:527:G:C5	1:AA:528:C:C5	3.01	0.49
3:AC:133:MET:HB2	3:AC:150:VAL:HG21	1.94	0.49
35:BB:396:G:C5	35:BB:397:U:C5	3.00	0.48
35:BB:974:G:C6	35:BB:1186:G:C6	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:1584:U:H2'	35:BB:1585:C:H5'	1.95	0.48
35:BB:2776:A:C5	35:BB:2782:G:C4	3.01	0.48
54:BU:41:VAL:HG22	54:BU:60:LYS:O	2.13	0.48
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.47	0.48
35:BB:24:G:C5	35:BB:25:U:C4	3.01	0.48
1:AA:795:C:C5	1:AA:796:C:C5	3.00	0.48
1:AA:895:G:C6	1:AA:896:C:C4	3.02	0.48
35:BB:1351:C:H2'	35:BB:1352:U:O4'	2.12	0.48
1:AA:1239:A:H62	1:AA:1299:A:H62	1.61	0.48
22:AV:35:G:N2	23:AX:18:C:N1	2.56	0.48
35:BB:711:G:C6	35:BB:712:G:C5	3.01	0.48
35:BB:976:G:C6	35:BB:988:A:C2	3.00	0.48
35:BB:2234:G:C4	35:BB:2235:G:C8	3.02	0.48
42:BI:17:ALA:O	42:BI:18:ASN:HB3	2.13	0.48
42:BI:85:ILE:HD12	42:BI:87:SER:O	2.13	0.48
42:BI:100:ILE:O	42:BI:139:VAL:HA	2.14	0.48
1:AA:668:G:H21	15:AO:45:HIS:CE1	2.31	0.48
35:BB:82:U:H3	35:BB:104:A:H61	1.61	0.48
35:BB:2235:G:C6	35:BB:2236:U:C4	3.01	0.48
42:BI:79:LEU:HD12	42:BI:135:MET:SD	2.53	0.48
42:BI:100:ILE:O	42:BI:139:VAL:HG13	2.13	0.48
44:BK:3:GLN:HA	44:BK:24:VAL:HG23	1.96	0.48
1:AA:1118:U:H2'	1:AA:1118:U:O2	2.14	0.48
1:AA:1446:A:C3'	1:AA:1447:A:H5"	2.44	0.48
35:BB:827:U:H4'	35:BB:828:U:OP2	2.14	0.48
35:BB:2123:G:N2	35:BB:2176:A:H1'	2.29	0.48
35:BB:2694:G:C6	35:BB:2695:U:C4	3.01	0.48
40:BG:53:PRO:HD3	40:BG:61:TRP:CH2	2.49	0.48
42:BI:129:GLU:HB3	42:BI:133:ARG:NH1	2.28	0.48
46:BM:114:ARG:HG3	46:BM:130:PHE:CE1	2.49	0.48
35:BB:460:A:C2	35:BB:470:A:C5	3.01	0.48
42:BI:11:GLN:HA	42:BI:55:PRO:HA	1.96	0.48
51:BR:5:PHE:HB3	51:BR:38:VAL:HA	1.96	0.48
1:AA:842:U:H3'	1:AA:843:U:H4'	1.94	0.48
1:AA:967:C:C4	1:AA:968:A:C5	3.02	0.48
22:AV:6:C:H2'	22:AV:7:G:H8	1.78	0.48
35:BB:17:G:H2'	35:BB:18:U:C6	2.49	0.48
35:BB:1025:G:C5	35:BB:1135:C:H1'	2.49	0.48
42:BI:19:PRO:HB2	42:BI:22:PRO:HD2	1.95	0.48
52:BS:30:SER:H	52:BS:33:LEU:HD13	1.78	0.48
1:AA:836:G:C6	1:AA:851:G:C6	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:34:G:C2	22:AV:35:G:C4	3.02	0.48
44:BK:114:LYS:H	44:BK:114:LYS:HD3	1.79	0.48
5:AE:29:ILE:HG21	5:AE:53:ARG:HH21	1.79	0.47
42:BI:18:ASN:HB2	42:BI:38:CYS:SG	2.53	0.47
53:BT:68:LYS:HG2	53:BT:69:ARG:H	1.79	0.47
1:AA:879:C:H2'	1:AA:880:C:O4'	2.14	0.47
1:AA:920:U:H2'	1:AA:921:U:H6	1.79	0.47
20:AT:66:ILE:O	20:AT:67:HIS:CG	2.68	0.47
35:BB:46:G:C6	35:BB:180:G:C6	3.02	0.47
35:BB:1878:G:C5	35:BB:1879:C:C5	3.02	0.47
35:BB:2073:C:H5"	36:BC:227:VAL:HG13	1.95	0.47
35:BB:2132:U:C6	35:BB:2132:U:C3'	2.95	0.47
35:BB:2898:U:H2'	35:BB:2899:A:C8	2.49	0.47
54:BU:35:VAL:H	54:BU:39:ASN:ND2	2.10	0.47
1:AA:691:G:H1	11:AK:52:ARG:HH21	1.61	0.47
22:AV:6:C:H2'	22:AV:7:G:C8	2.49	0.47
35:BB:273:G:C5	35:BB:274:C:C5	3.02	0.47
39:BF:107:VAL:H	39:BF:108:PRO:CD	2.27	0.47
42:BI:37:PHE:HB2	42:BI:66:PHE:CE2	2.49	0.47
42:BI:75:ALA:O	42:BI:79:LEU:HG	2.13	0.47
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.49	0.47
35:BB:1268:A:C2	35:BB:2013:A:C4	3.02	0.47
35:BB:2684:U:C4	35:BB:2685:G:N7	2.82	0.47
42:BI:69:VAL:O	42:BI:69:VAL:HG23	2.14	0.47
42:BI:129:GLU:CB	42:BI:133:ARG:HH12	2.27	0.47
50:BQ:5:ARG:O	50:BQ:8:ILE:HG22	2.14	0.47
1:AA:199:A:H61	1:AA:218:U:H3	1.61	0.47
3:AC:88:LYS:HE2	3:AC:88:LYS:HA	1.95	0.47
35:BB:308:G:C8	35:BB:501:A:H1'	2.50	0.47
42:BI:102:ARG:CG	42:BI:141:ASP:HA	2.40	0.47
35:BB:695:G:N2	35:BB:696:G:H1'	2.30	0.47
35:BB:890:C:H41	35:BB:891:G:H21	1.63	0.47
4:AD:79:ALA:HA	4:AD:85:THR:HG21	1.96	0.47
6:AF:81:ASN:HD21	6:AF:83:ALA:HB3	1.80	0.47
9:AI:10:ARG:H	9:AI:80:HIS:HD2	1.60	0.47
35:BB:43:G:C2	35:BB:437:U:C2	3.03	0.47
35:BB:1871:A:C8	35:BB:1872:A:C5	3.03	0.47
35:BB:2064:C:H2'	35:BB:2065:C:C6	2.50	0.47
50:BQ:30:VAL:HG12	50:BQ:33:VAL:H	1.79	0.47
51:BR:11:GLN:O	51:BR:12:HIS:CG	2.68	0.47
1:AA:384:G:H2'	1:AA:385:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:600:A:H2'	1:AA:601:G:C8	2.50	0.47
1:AA:846:G:H2'	1:AA:846:G:N3	2.29	0.47
28:B3:22:THR:O	28:B3:24:VAL:HG23	2.15	0.47
35:BB:2214:C:C5	35:BB:2215:C:C5	3.03	0.47
35:BB:2229:U:H2'	35:BB:2230:G:C8	2.50	0.47
35:BB:2371:G:C6	35:BB:2372:U:C5	3.03	0.47
37:BD:56:LYS:HB2	37:BD:59:ARG:HG2	1.97	0.47
42:BI:27:LEU:HD23	42:BI:27:LEU:N	2.21	0.47
1:AA:98:A:H2'	1:AA:99:C:C6	2.49	0.47
12:AL:67:GLY:HA3	12:AL:116:TYR:CE2	2.50	0.47
35:BB:322:A:H3'	38:BE:163:ASN:HD21	1.80	0.47
35:BB:338:G:C5	35:BB:339:U:C5	3.02	0.47
42:BI:18:ASN:N	42:BI:19:PRO:CD	2.77	0.47
1:AA:1004:A:H1'	1:AA:1026:G:C6	2.50	0.47
19:AS:15:LEU:O	19:AS:18:VAL:HG12	2.16	0.47
35:BB:1437:C:H2'	35:BB:1438:U:H6	1.80	0.47
42:BI:140:GLU:CD	42:BI:140:GLU:H	2.19	0.47
1:AA:171:A:C2	1:AA:172:A:C2	3.03	0.46
1:AA:323:U:C5	1:AA:324:G:C5	3.03	0.46
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.50	0.46
31:B6:30:VAL:HA	31:B6:33:ARG:HH11	1.80	0.46
35:BB:570:G:C5	35:BB:2030:A:C6	3.02	0.46
52:BS:75:PHE:CZ	52:BS:104:THR:HG21	2.50	0.46
1:AA:1083:U:C5	1:AA:1084:G:C6	3.03	0.46
1:AA:1112:C:C5	3:AC:177:LEU:HD12	2.50	0.46
20:AT:46:ALA:HB1	20:AT:82:ILE:HG22	1.98	0.46
35:BB:1560:G:C5	35:BB:1561:C:C4	3.03	0.46
35:BB:1566:A:C6	36:BC:212:TRP:CZ3	3.03	0.46
42:BI:96:LYS:HD3	42:BI:138:VAL:HG21	1.98	0.46
35:BB:367:G:C6	35:BB:368:A:C5	3.04	0.46
35:BB:2292:U:H2'	35:BB:2293:G:C8	2.50	0.46
44:BK:11:ALA:HB2	44:BK:83:ALA:HB1	1.96	0.46
32:B7:63:TYR:CE2	35:BB:242:G:H5"	2.51	0.46
34:BA:75:G:H21	55:BW:88:HIS:CD2	2.33	0.46
35:BB:1461:C:C4	35:BB:1462:C:C5	3.04	0.46
1:AA:1026:G:C5	1:AA:1027:C:C5	3.04	0.46
35:BB:1059:G:H4'	42:BI:116:MET:HE2	1.96	0.46
50:BQ:56:PHE:HB3	50:BQ:60:TRP:CE2	2.51	0.46
1:AA:792:A:C2	1:AA:794:A:C4	3.03	0.46
1:AA:1390:U:C4	1:AA:1391:U:C4	3.03	0.46
22:AV:26:A:H61	22:AV:44:G:H1	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:2175:C:C2	35:BB:2176:A:C8	3.04	0.46
35:BB:2287:A:C2	35:BB:2289:G:C6	3.04	0.46
1:AA:332:G:C5	1:AA:333:U:C5	3.03	0.46
1:AA:665:A:C2	1:AA:733:G:C8	3.04	0.46
1:AA:978:A:C2	1:AA:1319:A:C4	3.03	0.46
35:BB:572:A:C2	35:BB:2033:A:C2	3.04	0.46
35:BB:877:A:C2	35:BB:900:A:N6	2.84	0.46
35:BB:2724:U:H2'	35:BB:2725:A:C8	2.51	0.46
42:BI:23:VAL:HG12	42:BI:24:GLY:N	2.30	0.46
53:BT:29:THR:HA	53:BT:87:LEU:HG	1.97	0.46
1:AA:1347:G:C4	1:AA:1373:G:C6	3.04	0.46
1:AA:1360:A:OP1	1:AA:1360:A:C8	2.69	0.46
5:AE:148:SER:HB2	5:AE:151:MET:HB2	1.97	0.46
13:AM:79:LEU:HA	13:AM:82:LEU:HD12	1.96	0.46
35:BB:877:A:C5	35:BB:901:C:N3	2.84	0.46
35:BB:1833:C:H2'	35:BB:1834:U:H6	1.81	0.46
42:BI:17:ALA:C	42:BI:19:PRO:HD3	2.36	0.46
1:AA:1295:U:H2'	1:AA:1296:C:C6	2.51	0.46
35:BB:1803:A:C8	35:BB:1804:C:C5	3.04	0.46
36:BC:12:ARG:HA	36:BC:15:VAL:HB	1.98	0.46
45:BL:8:PRO:HB3	45:BL:13:LYS:H	1.79	0.46
54:BU:45:GLN:HE22	54:BU:54:PRO:HD2	1.79	0.46
22:AV:70:C:H2'	22:AV:71:C:H5'	1.98	0.46
35:BB:1322:A:H2'	35:BB:1323:C:H5'	1.97	0.46
38:BE:3:LEU:O	38:BE:4:VAL:HG22	2.15	0.46
40:BG:44:HIS:CG	40:BG:45:ALA:N	2.84	0.46
42:BI:23:VAL:HG12	42:BI:27:LEU:HD21	1.96	0.46
1:AA:966:G:C2	22:AV:34:G:H5'	2.50	0.45
1:AA:1223:C:H3'	1:AA:1224:U:C5'	2.46	0.45
1:AA:1486:G:C6	1:AA:1487:G:C6	3.03	0.45
22:AV:2:G:C6	22:AV:3:G:C5	3.04	0.45
35:BB:2694:G:C5	35:BB:2695:U:C5	3.04	0.45
48:BO:31:THR:HG22	48:BO:33:ARG:H	1.81	0.45
1:AA:1190:G:OP2	3:AC:4:VAL:HG22	2.16	0.45
1:AA:1421:G:C2	1:AA:1480:A:C2	3.04	0.45
22:AV:36:G:H2'	22:AV:37:G:O4'	2.17	0.45
35:BB:173:A:C5	35:BB:174:U:C5	3.04	0.45
35:BB:940:G:H2'	35:BB:941:A:C4'	2.46	0.45
43:BJ:93:ILE:HG23	43:BJ:97:PRO:HG3	1.97	0.45
1:AA:519:C:C4	1:AA:520:A:C5	3.05	0.45
1:AA:1055:A:C2	1:AA:1056:U:H1'	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:18:LYS:HG3	32:B7:20:GLY:H	1.81	0.45
35:BB:504:A:H4'	35:BB:505:A:H5'	1.98	0.45
35:BB:2684:U:C4	35:BB:2685:G:C8	3.04	0.45
46:BM:43:ALA:HA	46:BM:46:ILE:HG13	1.98	0.45
47:BN:44:LEU:HD23	47:BN:113:ILE:HD13	1.99	0.45
1:AA:691:G:N2	1:AA:695:A:C8	2.85	0.45
1:AA:1148:U:C5	1:AA:1149:C:C4	3.04	0.45
11:AK:79:LYS:HA	11:AK:104:PHE:HA	1.99	0.45
35:BB:629:G:C6	35:BB:630:G:C5	3.04	0.45
1:AA:1044:A:C5	1:AA:1045:C:H1'	2.51	0.45
1:AA:1321:U:C6	1:AA:1321:U:OP2	2.69	0.45
7:AG:31:VAL:HG11	7:AG:108:ARG:HH12	1.80	0.45
35:BB:45:G:H5'	35:BB:46:G:H5'	1.99	0.45
35:BB:1302:A:H5'	35:BB:1608:A:OP1	2.17	0.45
1:AA:565:U:H5	1:AA:566:G:HO2'	1.62	0.45
7:AG:49:LEU:HB3	7:AG:60:ALA:HB1	1.98	0.45
34:BA:48:U:H2'	34:BA:49:C:C6	2.52	0.45
35:BB:1054:A:C2	35:BB:1106:G:C6	3.05	0.45
35:BB:2637:U:C5	35:BB:2638:G:C5	3.05	0.45
42:BI:49:GLU:HB3	42:BI:52:LEU:HD12	1.97	0.45
1:AA:455:G:C2	1:AA:478:A:C2	3.04	0.45
1:AA:1024:G:C5	1:AA:1025:U:C4	3.05	0.45
35:BB:370:G:C5	35:BB:424:G:C8	3.05	0.45
37:BD:122:VAL:HA	37:BD:127:PHE:H	1.82	0.45
42:BI:52:LEU:HD13	42:BI:81:LYS:NZ	2.32	0.45
42:BI:78:LEU:HD23	42:BI:81:LYS:HE2	1.98	0.45
35:BB:541:A:C5	35:BB:542:C:C5	3.04	0.45
35:BB:589:U:H2'	35:BB:590:A:H8	1.81	0.45
35:BB:1021:A:C2	35:BB:1023:U:C2	3.05	0.45
35:BB:2199:A:H2'	35:BB:2199:A:N3	2.31	0.45
37:BD:157:LYS:HB2	43:BJ:80:HIS:CD2	2.52	0.45
42:BI:27:LEU:HB2	42:BI:32:VAL:HG21	1.98	0.45
42:BI:46:ASP:HA	42:BI:50:LYS:HE2	1.99	0.45
1:AA:257:G:C2	1:AA:258:G:C8	3.05	0.45
1:AA:1526:G:OP1	21:AU:37:TYR:CD2	2.70	0.45
17:AQ:58:VAL:HG12	17:AQ:77:VAL:HA	1.99	0.45
35:BB:196:A:C2	35:BB:805:G:C6	3.04	0.45
35:BB:327:G:C6	35:BB:328:U:C4	3.05	0.45
35:BB:822:G:C6	35:BB:823:C:C4	3.05	0.45
35:BB:1025:G:C4	35:BB:1135:C:H1'	2.52	0.45
35:BB:1651:G:C6	35:BB:1652:A:C6	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:2809:A:C6	35:BB:2810:A:C6	3.05	0.45
1:AA:38:G:N1	1:AA:397:A:C2	2.85	0.45
13:AM:2:ARG:HA	13:AM:8:ILE:HG13	1.99	0.45
35:BB:2116:G:H2'	35:BB:2116:G:N3	2.31	0.45
42:BI:90:GLY:C	42:BI:92:PRO:HD3	2.38	0.45
42:BI:126:ARG:HB3	42:BI:126:ARG:NH1	2.32	0.45
1:AA:527:G:C6	1:AA:528:C:C5	3.06	0.44
1:AA:764:C:C2'	1:AA:765:G:H5'	2.46	0.44
9:AI:117:LEU:HD13	9:AI:121:ARG:HA	1.98	0.44
28:B3:2:VAL:HG22	35:BB:2015:A:C2	2.51	0.44
35:BB:748:G:C8	35:BB:750:A:C8	3.05	0.44
35:BB:825:A:C6	35:BB:826:U:C4	3.05	0.44
35:BB:1501:G:H4'	36:BC:94:LEU:HD21	1.99	0.44
37:BD:78:GLY:HA3	37:BD:80:TRP:CH2	2.52	0.44
37:BD:111:GLY:HA2	37:BD:201:LEU:HA	1.98	0.44
45:BL:121:THR:HB	45:BL:123:ARG:HG2	1.99	0.44
1:AA:224:U:H2'	1:AA:225:C:C6	2.52	0.44
1:AA:296:U:C4	1:AA:297:G:C5	3.05	0.44
35:BB:1027:A:C2	35:BB:2488:G:H5'	2.52	0.44
35:BB:1659:G:C6	35:BB:1660:G:C5	3.05	0.44
35:BB:2259:U:H2'	35:BB:2260:C:C6	2.52	0.44
22:AV:34:G:H2'	22:AV:35:G:C8	2.52	0.44
31:B6:19:ARG:NH1	35:BB:124:G:C5	2.85	0.44
35:BB:730:A:C2	35:BB:731:C:C6	3.05	0.44
35:BB:2117:A:C5'	35:BB:2148:G:H21	2.30	0.44
1:AA:468:A:H3'	1:AA:469:C:C6	2.52	0.44
1:AA:855:U:C2	1:AA:856:C:C5	3.06	0.44
10:AJ:25:ILE:HG21	10:AJ:91:ASP:HB2	1.99	0.44
28:B3:28:SER:HB3	28:B3:39:ARG:HH21	1.82	0.44
35:BB:841:G:C5	35:BB:842:U:C5	3.05	0.44
35:BB:919:U:H2'	35:BB:920:A:C8	2.52	0.44
35:BB:2758:A:H2'	35:BB:2759:G:H5'	1.99	0.44
42:BI:100:ILE:HG23	42:BI:104:GLN:OE1	2.17	0.44
42:BI:138:VAL:HG12	42:BI:139:VAL:N	2.31	0.44
31:B6:13:ASN:HD22	35:BB:125:A:H1'	1.83	0.44
35:BB:136:G:H2'	35:BB:137:U:C6	2.52	0.44
35:BB:2718:G:C6	35:BB:2719:G:C5	3.05	0.44
35:BB:2897:U:H2'	35:BB:2898:U:C6	2.53	0.44
38:BE:192:ALA:O	38:BE:196:VAL:HG23	2.18	0.44
39:BF:109:ARG:O	39:BF:110:ILE:HG23	2.18	0.44
54:BU:80:ASP:OD1	54:BU:95:PHE:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:579:A:C6	1:AA:763:G:C6	3.05	0.44
13:AM:15:VAL:HG13	13:AM:16:ILE:H	1.83	0.44
22:AV:34:G:C6	22:AV:35:G:C6	3.05	0.44
35:BB:2131:U:H3'	35:BB:2131:U:O2	2.17	0.44
42:BI:70:THR:HG23	42:BI:70:THR:O	2.17	0.44
1:AA:1366:C:C4	1:AA:1367:C:C5	3.06	0.44
17:AQ:5:ARG:HA	17:AQ:5:ARG:HD3	1.83	0.44
35:BB:780:G:H2'	35:BB:782:A:C5	2.52	0.44
35:BB:1506:U:C2	35:BB:1507:C:C5	3.06	0.44
35:BB:2513:A:C6	35:BB:2574:G:C6	3.05	0.44
35:BB:2643:G:C5	35:BB:2644:G:C5	3.06	0.44
42:BI:54:ILE:HD11	42:BI:71:LYS:N	2.33	0.44
54:BU:57:ILE:H	54:BU:57:ILE:HG13	1.59	0.44
1:AA:232:G:H1'	1:AA:262:A:N1	2.33	0.44
1:AA:1110:A:H3'	1:AA:1111:A:C8	2.50	0.44
1:AA:1442:G:C6	1:AA:1443:C:C4	3.06	0.44
35:BB:571:U:C4	35:BB:575:A:C5	3.06	0.44
35:BB:1231:U:H2'	35:BB:1232:G:H8	1.83	0.44
35:BB:1949:G:C6	35:BB:1950:G:C6	3.05	0.44
35:BB:2284:A:C5	35:BB:2285:C:C5	3.05	0.44
35:BB:2709:G:C5	35:BB:2710:C:C4	3.06	0.44
1:AA:151:A:C2	1:AA:152:A:H1'	2.53	0.44
1:AA:796:C:H4'	11:AK:126:ARG:HE	1.83	0.44
3:AC:38:VAL:HG21	3:AC:90:VAL:HG13	2.00	0.44
9:AI:35:GLU:CD	9:AI:35:GLU:H	2.21	0.44
11:AK:83:VAL:CG1	11:AK:85:VAL:HG23	2.48	0.44
35:BB:1144:A:C6	35:BB:1145:C:C4	3.05	0.44
35:BB:2870:C:C4	35:BB:2871:U:C4	3.06	0.44
42:BI:59:THR:O	42:BI:59:THR:HG23	2.18	0.44
42:BI:72:THR:OG1	42:BI:73:PRO:HD2	2.18	0.44
53:BT:5:GLU:HA	53:BT:8:LEU:HD12	2.00	0.44
1:AA:21:G:H2'	1:AA:22:G:C8	2.53	0.43
1:AA:72:A:C6	1:AA:73:C:C4	3.06	0.43
1:AA:202:G:N2	1:AA:216:U:C2	2.86	0.43
1:AA:517:G:H2'	1:AA:531:U:C5	2.53	0.43
1:AA:1144:G:N2	1:AA:1146:A:H62	2.16	0.43
39:BF:35:LEU:HG	39:BF:90:LEU:HD11	2.00	0.43
1:AA:1088:G:C6	1:AA:1089:G:C5	3.06	0.43
1:AA:1170:A:C8	1:AA:1171:A:C8	3.06	0.43
35:BB:773:U:H5'	35:BB:774:G:OP2	2.19	0.43
35:BB:2327:A:H2'	35:BB:2328:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BT:43:ILE:O	53:BT:46:ALA:HB3	2.18	0.43
20:AT:13:SER:O	20:AT:16:ALA:HB3	2.17	0.43
22:AV:37:G:C2	22:AV:38:U:H1'	2.53	0.43
35:BB:778:G:C5	35:BB:779:U:C4	3.06	0.43
35:BB:1054:A:C2	35:BB:1106:G:C5	3.06	0.43
35:BB:1056:G:H5'	35:BB:1057:A:H5'	2.00	0.43
35:BB:1707:G:C5	35:BB:1756:G:C6	3.07	0.43
35:BB:1893:C:H2'	35:BB:1894:C:H5'	2.01	0.43
42:BI:35:MET:HE3	42:BI:39:LYS:HG2	2.00	0.43
49:BP:45:VAL:H	49:BP:61:ARG:H	1.66	0.43
1:AA:1027:C:C2	1:AA:1035:A:C2	3.07	0.43
35:BB:200:U:C5	35:BB:201:C:C5	3.06	0.43
35:BB:469:G:OP1	38:BE:73:ILE:HD11	2.18	0.43
35:BB:1138:G:H2'	35:BB:1139:G:O4'	2.18	0.43
35:BB:1381:G:C6	35:BB:1382:G:C2	3.06	0.43
35:BB:1724:G:C6	35:BB:1725:U:C4	3.06	0.43
35:BB:1838:C:C5	35:BB:1899:A:C5	3.06	0.43
35:BB:2104:C:H4'	35:BB:2104:C:OP1	2.18	0.43
1:AA:872:A:C4	1:AA:874:G:C8	3.06	0.43
1:AA:1526:G:C5	1:AA:1527:U:C5	3.06	0.43
6:AF:41:ASP:HA	6:AF:60:VAL:HA	2.00	0.43
35:BB:352:A:C2	35:BB:353:C:C2	3.05	0.43
35:BB:1358:G:C2	35:BB:1372:U:H5	2.36	0.43
35:BB:2302:U:H2'	35:BB:2303:G:C8	2.54	0.43
1:AA:768:A:OP1	1:AA:804:U:H4'	2.18	0.43
1:AA:1108:G:OP1	3:AC:175:HIS:CD2	2.71	0.43
35:BB:287:G:C2	35:BB:354:A:C4	3.06	0.43
35:BB:300:A:H1'	35:BB:319:G:H1'	2.00	0.43
35:BB:945:A:C5	35:BB:2448:A:C2	3.07	0.43
38:BE:15:SER:HB2	38:BE:18:THR:HB	2.01	0.43
42:BI:21:PRO:HB2	42:BI:22:PRO:CD	2.42	0.43
44:BK:71:ARG:H	44:BK:105:ARG:HH21	1.67	0.43
1:AA:627:G:C6	1:AA:628:G:C5	3.07	0.43
35:BB:2117:A:H5"	35:BB:2148:G:H21	1.84	0.43
35:BB:2183:A:H2'	35:BB:2184:A:C8	2.54	0.43
35:BB:2648:G:H2'	35:BB:2649:C:C6	2.54	0.43
42:BI:112:LYS:HB2	42:BI:116:MET:SD	2.59	0.43
43:BJ:32:LEU:HD22	43:BJ:122:LEU:HD13	2.00	0.43
1:AA:646:G:C4	1:AA:647:C:C6	3.06	0.43
1:AA:825:A:C6	1:AA:826:C:C4	3.06	0.43
1:AA:1249:C:O2	9:AI:71:ILE:HD11	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1301:U:C2	1:AA:1303:C:C6	3.07	0.43
13:AM:38:ILE:HD13	13:AM:51:GLN:HB2	2.01	0.43
14:AN:26:LEU:HD23	14:AN:30:ILE:HD12	2.00	0.43
34:BA:9:G:C6	34:BA:10:G:C5	3.07	0.43
35:BB:2897:U:C4	35:BB:2898:U:C4	3.06	0.43
1:AA:246:A:C8	1:AA:279:A:C2	3.07	0.43
1:AA:313:A:C6	1:AA:314:C:C4	3.06	0.43
1:AA:462:G:H2'	1:AA:463:U:H6	1.83	0.43
1:AA:1063:C:H3'	1:AA:1064:G:H2'	2.01	0.43
35:BB:77:G:C2	35:BB:78:U:C2	3.07	0.43
35:BB:303:G:H2'	35:BB:304:U:O4'	2.17	0.43
35:BB:1712:U:C4	35:BB:1713:A:C5	3.07	0.43
35:BB:2511:U:H2'	35:BB:2512:C:O4'	2.19	0.43
38:BE:135:ALA:HB1	38:BE:139:LYS:NZ	2.34	0.43
1:AA:202:G:H21	1:AA:465:A:H61	1.67	0.43
1:AA:751:U:C4	1:AA:752:G:C2	3.06	0.43
35:BB:98:G:N2	54:BU:6:ARG:HH22	2.16	0.43
35:BB:297:G:C6	35:BB:298:G:C4	3.06	0.43
1:AA:473:U:H2'	1:AA:474:G:C8	2.53	0.42
1:AA:842:U:H4'	1:AA:843:U:OP2	2.19	0.42
1:AA:1082:A:C5	1:AA:1083:U:C4	3.07	0.42
1:AA:1309:G:C6	1:AA:1310:G:C5	3.07	0.42
35:BB:1726:C:H2'	35:BB:1727:C:C6	2.53	0.42
35:BB:2734:A:H2'	35:BB:2735:G:H5'	2.00	0.42
38:BE:22:ASP:HA	38:BE:114:ARG:HH22	1.83	0.42
39:BF:3:LEU:HD13	39:BF:3:LEU:HA	1.88	0.42
42:BI:12:VAL:HG13	42:BI:41:PHE:CE2	2.54	0.42
42:BI:123:ALA:HA	42:BI:126:ARG:NH1	2.33	0.42
42:BI:128:ILE:HA	42:BI:131:THR:HG23	2.00	0.42
1:AA:149:A:N6	1:AA:171:A:C8	2.87	0.42
1:AA:1133:G:C2	1:AA:1142:G:C2	3.07	0.42
3:AC:13:ILE:HG13	3:AC:14:VAL:HG22	2.01	0.42
35:BB:712:G:C6	35:BB:713:G:C4	3.07	0.42
35:BB:766:U:H2'	35:BB:767:U:C6	2.54	0.42
35:BB:890:C:H3'	35:BB:891:G:H4'	2.01	0.42
35:BB:2305:U:H3	39:BF:148:VAL:CG1	2.32	0.42
43:BJ:116:ARG:HA	43:BJ:119:PHE:CD2	2.54	0.42
1:AA:202:G:H21	1:AA:465:A:N6	2.18	0.42
2:AB:143:LEU:HD23	2:AB:143:LEU:HA	1.98	0.42
19:AS:62:THR:HG22	19:AS:63:ASP:H	1.83	0.42
35:BB:664:G:C5	35:BB:665:U:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:820:A:C2	35:BB:821:A:C4	3.07	0.42
35:BB:841:G:C6	35:BB:842:U:C4	3.07	0.42
35:BB:1172:C:H3'	35:BB:1173:U:H6	1.83	0.42
35:BB:1783:A:C2	35:BB:2587:A:C5	3.08	0.42
35:BB:1880:U:H2'	35:BB:1881:C:C6	2.54	0.42
35:BB:2051:A:C5	35:BB:2614:A:C5	3.07	0.42
36:BC:206:LYS:HG3	36:BC:209:ALA:H	1.84	0.42
1:AA:59:A:H3'	1:AA:60:A:C5'	2.49	0.42
1:AA:1130:A:C2	1:AA:1146:A:C4	3.07	0.42
1:AA:1225:A:C2	1:AA:1226:C:C2	3.08	0.42
1:AA:1332:A:H2'	1:AA:1333:A:C8	2.54	0.42
30:B5:37:LYS:HD2	35:BB:2130:U:OP2	2.19	0.42
35:BB:536:G:C6	35:BB:537:G:C4	3.07	0.42
35:BB:941:A:H2'	35:BB:942:G:C8	2.55	0.42
35:BB:1692:U:H2'	35:BB:1694:C:C5	2.55	0.42
35:BB:2601:C:H4'	35:BB:2602:A:OP2	2.18	0.42
42:BI:72:THR:CG2	42:BI:112:LYS:HD2	2.50	0.42
42:BI:73:PRO:HA	42:BI:74:PRO:HD3	1.92	0.42
1:AA:673:A:H2'	1:AA:674:G:C8	2.54	0.42
32:B7:29:ARG:HA	32:B7:29:ARG:NE	2.35	0.42
35:BB:663:G:C5	35:BB:664:G:N7	2.87	0.42
35:BB:1283:G:H21	35:BB:1329:U:H3	1.66	0.42
35:BB:1893:C:C5	35:BB:1894:C:C5	3.07	0.42
39:BF:69:ALA:HB3	39:BF:80:GLN:HA	2.02	0.42
42:BI:89:SER:HA	42:BI:97:VAL:HG11	2.01	0.42
48:BO:55:GLU:H	48:BO:55:GLU:CD	2.22	0.42
1:AA:113:G:H2'	1:AA:114:U:C6	2.55	0.42
1:AA:1506:U:H4'	11:AK:128:VAL:HG13	2.01	0.42
34:BA:29:A:C2	34:BA:30:C:C2	3.08	0.42
35:BB:1737:G:C6	35:BB:1738:G:N1	2.87	0.42
35:BB:2241:A:H2'	35:BB:2242:G:C8	2.55	0.42
35:BB:2898:U:H2'	35:BB:2899:A:H8	1.85	0.42
37:BD:33:ARG:HB2	37:BD:94:GLN:H	1.85	0.42
40:BG:87:GLN:HB3	40:BG:88:LEU:H	1.75	0.42
42:BI:91:LYS:HD2	42:BI:91:LYS:N	2.35	0.42
1:AA:226:G:C6	1:AA:227:G:C5	3.08	0.42
35:BB:918:A:C5	35:BB:919:U:H1'	2.55	0.42
35:BB:1681:G:C6	35:BB:1762:A:C6	3.07	0.42
43:BJ:140:LEU:HD12	43:BJ:140:LEU:HA	1.95	0.42
1:AA:448:A:C4	1:AA:487:A:C2	3.08	0.42
1:AA:580:C:H2'	1:AA:581:G:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:677:U:C4	1:AA:678:U:C5	3.07	0.42
1:AA:814:A:H5'	1:AA:1511:G:H4'	2.01	0.42
3:AC:174:LEU:HD23	3:AC:200:TRP:CE3	2.54	0.42
35:BB:883:G:H22	35:BB:894:U:H1'	1.85	0.42
35:BB:2352:A:H2'	35:BB:2353:G:H5'	2.00	0.42
38:BE:122:GLU:HA	38:BE:189:THR:HG22	2.02	0.42
42:BI:117:THR:O	42:BI:118:GLY:C	2.58	0.42
42:BI:129:GLU:O	42:BI:133:ARG:HG3	2.19	0.42
11:AK:20:ALA:CB	11:AK:81:LEU:HD22	2.49	0.42
35:BB:389:G:H2'	35:BB:390:U:H6	1.84	0.42
35:BB:605:G:C5	35:BB:606:U:C4	3.08	0.42
35:BB:631:A:C6	35:BB:632:A:C6	3.08	0.42
35:BB:1037:G:C6	35:BB:1038:G:N7	2.87	0.42
35:BB:1067:A:N7	35:BB:1068:G:C4	2.88	0.42
37:BD:67:HIS:CE1	37:BD:68:PHE:CE1	3.07	0.42
38:BE:14:VAL:HG21	38:BE:193:VAL:HG12	2.02	0.42
42:BI:68:PHE:CD1	42:BI:68:PHE:N	2.88	0.42
1:AA:429:U:H3'	4:AD:8:LEU:HD12	2.02	0.42
1:AA:469:C:C5	1:AA:470:C:C4	3.07	0.42
1:AA:942:G:C6	1:AA:943:U:C4	3.08	0.42
25:B0:4:CYS:O	25:B0:50:VAL:HA	2.19	0.42
42:BI:53:PRO:CG	42:BI:77:VAL:HG11	2.49	0.42
42:BI:54:ILE:HG23	42:BI:54:ILE:O	2.20	0.42
42:BI:131:THR:O	42:BI:135:MET:HG3	2.20	0.42
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.55	0.41
35:BB:460:A:C2	35:BB:470:A:C4	3.08	0.41
35:BB:722:A:C5	35:BB:723:C:C5	3.08	0.41
35:BB:1065:U:C5	35:BB:1066:U:C4	3.08	0.41
35:BB:1886:U:H2'	35:BB:1887:C:C6	2.55	0.41
35:BB:1995:U:H2'	35:BB:1996:C:C6	2.55	0.41
1:AA:439:U:C6	1:AA:440:C:C5	3.08	0.41
1:AA:1109:C:OP2	3:AC:175:HIS:CD2	2.74	0.41
1:AA:1188:A:H2'	1:AA:1189:U:H5'	2.02	0.41
1:AA:1458:G:N1	1:AA:1459:G:C5	2.88	0.41
9:AI:51:LEU:HB2	9:AI:56:MET:SD	2.60	0.41
35:BB:957:C:H42	35:BB:2494:G:H21	1.68	0.41
35:BB:1082:U:O4	35:BB:1086:A:C2	2.73	0.41
35:BB:1426:G:C6	35:BB:1427:A:C6	3.09	0.41
35:BB:1787:A:C4	35:BB:1788:C:C5	3.08	0.41
35:BB:2404:U:H2'	35:BB:2405:G:O4'	2.20	0.41
1:AA:518:C:H2'	1:AA:530:G:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:80:HIS:CE1	9:AI:105:ARG:HA	2.56	0.41
17:AQ:61:ARG:HD3	17:AQ:75:VAL:HG22	2.02	0.41
22:AV:36:G:N2	23:AX:17:C:H1'	2.34	0.41
35:BB:195:A:H5"	45:BL:47:ARG:HH11	1.85	0.41
35:BB:2038:G:C6	35:BB:2039:U:C4	3.08	0.41
35:BB:2517:C:C2	35:BB:2542:A:N6	2.89	0.41
41:BH:89:LYS:HD3	41:BH:126:GLY:HA2	2.01	0.41
35:BB:45:G:C5'	35:BB:46:G:H5'	2.50	0.41
35:BB:2116:G:H4'	35:BB:2146:C:C6	2.56	0.41
1:AA:735:C:H2'	1:AA:736:C:H6	1.85	0.41
35:BB:201:C:C5	35:BB:202:U:C5	3.08	0.41
35:BB:639:U:H2'	35:BB:640:C:C6	2.55	0.41
35:BB:2391:G:C4	35:BB:2424:C:C5	3.09	0.41
35:BB:2627:G:C5	35:BB:2628:C:C4	3.08	0.41
49:BP:47:ILE:HG23	49:BP:96:LEU:H	1.85	0.41
52:BS:66:ILE:HA	52:BS:69:LEU:HD12	2.02	0.41
1:AA:555:U:H2'	1:AA:556:C:C6	2.56	0.41
6:AF:42:TRP:HB2	6:AF:59:TYR:HB2	2.03	0.41
13:AM:84:CYS:HB2	19:AS:73:PHE:CE2	2.55	0.41
35:BB:568:U:O2	35:BB:570:G:C8	2.74	0.41
35:BB:1951:U:C2	35:BB:1954:G:C8	3.08	0.41
35:BB:2329:U:H2'	35:BB:2330:G:C8	2.55	0.41
35:BB:2351:G:N1	35:BB:2365:G:C6	2.89	0.41
35:BB:2731:G:C2	35:BB:2732:G:C6	3.09	0.41
44:BK:32:TYR:HB2	44:BK:33:ALA:H	1.73	0.41
1:AA:181:A:H1'	1:AA:182:A:C2	2.55	0.41
1:AA:299:G:H2'	1:AA:300:A:C8	2.55	0.41
1:AA:592:G:C6	1:AA:593:U:C4	3.09	0.41
5:AE:131:ASN:HA	5:AE:132:PRO:HD2	1.97	0.41
13:AM:9:PRO:O	13:AM:44:ILE:HG21	2.20	0.41
17:AQ:14:ASP:H	17:AQ:54:ILE:HD11	1.85	0.41
35:BB:297:G:H4'	54:BU:85:ARG:HE	1.86	0.41
35:BB:345:A:N3	35:BB:346:A:N1	2.68	0.41
35:BB:700:G:C6	35:BB:701:G:C5	3.08	0.41
35:BB:945:A:H3'	35:BB:946:C:H5"	2.03	0.41
35:BB:1348:C:C5	35:BB:1349:C:C6	3.09	0.41
42:BI:45:THR:O	42:BI:48:ILE:HG22	2.20	0.41
49:BP:44:GLY:HA3	49:BP:60:VAL:HG13	2.03	0.41
1:AA:208:U:C2	1:AA:212:G:N1	2.89	0.41
8:AH:66:GLN:HE22	8:AH:68:LYS:HB2	1.86	0.41
22:AV:72:G:C3'	22:AV:73:A:H5"	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:38:LYS:HG2	32:B7:42:HIS:CE1	2.56	0.41
35:BB:486:C:H2'	35:BB:487:C:H6	1.86	0.41
35:BB:1662:U:H2'	35:BB:1663:G:O4'	2.20	0.41
35:BB:1674:G:H21	35:BB:1677:A:H61	1.67	0.41
35:BB:2661:G:H2'	35:BB:2662:A:C8	2.55	0.41
1:AA:38:G:C6	1:AA:397:A:C2	3.09	0.41
1:AA:90:C:H2'	1:AA:91:U:C6	2.56	0.41
1:AA:486:U:H2'	1:AA:487:A:H8	1.86	0.41
1:AA:741:G:N2	1:AA:742:G:H1'	2.36	0.41
1:AA:1004:A:H1'	1:AA:1026:G:C5	2.56	0.41
1:AA:1018:G:H2'	1:AA:1019:A:C8	2.55	0.41
14:AN:81:ILE:H	14:AN:81:ILE:HG13	1.49	0.41
27:B2:33:HIS:CE1	27:B2:34:THR:O	2.74	0.41
34:BA:33:G:C2	34:BA:50:A:C2	3.08	0.41
35:BB:271:G:C6	35:BB:367:G:C6	3.09	0.41
35:BB:492:A:H2'	35:BB:493:G:O4'	2.21	0.41
35:BB:950:G:C4	35:BB:951:C:C6	3.09	0.41
35:BB:1081:U:H4'	42:BI:126:ARG:NH1	2.35	0.41
35:BB:2298:A:C6	35:BB:2299:U:C2	3.09	0.41
35:BB:2615:U:C2	35:BB:2616:C:C6	3.09	0.41
35:BB:2747:G:H1	35:BB:2754:U:H2'	1.86	0.41
42:BI:10:LEU:HD12	42:BI:10:LEU:C	2.41	0.41
42:BI:41:PHE:CE2	42:BI:45:THR:HG21	2.55	0.41
42:BI:56:VAL:CG2	42:BI:68:PHE:HB2	2.51	0.41
42:BI:99:LYS:HB2	42:BI:140:GLU:OE1	2.20	0.41
1:AA:332:G:C4	1:AA:333:U:C6	3.09	0.41
1:AA:529:G:H4'	1:AA:533:A:C2	2.56	0.41
1:AA:875:U:C4	1:AA:876:C:C5	3.09	0.41
1:AA:1302:C:C2	1:AA:1302:C:OP1	2.74	0.41
7:AG:8:GLN:CD	7:AG:9:ARG:H	2.24	0.41
22:AV:7:G:C6	22:AV:49:G:C5	3.09	0.41
34:BA:99:A:C5	34:BA:100:G:C5	3.08	0.41
35:BB:165:A:C2	35:BB:166:U:C2	3.09	0.41
35:BB:833:A:H2'	35:BB:834:G:C8	2.56	0.41
35:BB:1515:A:H2'	35:BB:1516:G:O4'	2.21	0.41
35:BB:2266:A:H4'	35:BB:2267:A:O5'	2.21	0.41
35:BB:2888:C:H2'	35:BB:2889:C:C6	2.56	0.41
42:BI:11:GLN:NE2	42:BI:74:PRO:HG3	2.35	0.41
51:BR:14:VAL:HG22	51:BR:16:GLU:H	1.85	0.41
1:AA:557:G:C6	1:AA:558:G:C2	3.09	0.40
1:AA:973:G:H3'	1:AA:974:A:H8	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:2:G:C2	35:BB:3:U:C2	3.09	0.40
35:BB:339:U:H2'	35:BB:340:A:C8	2.57	0.40
35:BB:850:U:H2'	35:BB:851:C:C6	2.57	0.40
35:BB:1432:G:H2'	35:BB:1433:A:C8	2.56	0.40
35:BB:2063:C:C6	35:BB:2064:C:C5	3.10	0.40
35:BB:2235:G:C2	35:BB:2236:U:C2	3.09	0.40
35:BB:2547:A:H2'	35:BB:2548:U:C6	2.56	0.40
35:BB:2731:G:H5"	35:BB:2732:G:OP2	2.21	0.40
37:BD:131:ASP:HB2	37:BD:139:SER:HB3	2.02	0.40
50:BQ:13:HIS:O	50:BQ:17:LEU:HG	2.21	0.40
1:AA:57:G:C6	1:AA:58:C:C4	3.09	0.40
1:AA:230:G:C6	1:AA:231:U:C4	3.09	0.40
1:AA:376:G:C2	1:AA:389:A:C2	3.08	0.40
1:AA:404:G:H1	1:AA:499:A:H62	1.69	0.40
4:AD:143:SER:HA	4:AD:178:GLU:HA	2.04	0.40
13:AM:78:ARG:HD2	19:AS:64:GLU:HG3	2.03	0.40
35:BB:341:C:H2'	35:BB:342:A:O4'	2.21	0.40
35:BB:670:A:H4'	35:BB:671:C:H5'	2.02	0.40
35:BB:811:U:H2'	45:BL:21:ARG:HA	2.03	0.40
35:BB:1416:G:C4	35:BB:1417:C:C5	3.09	0.40
35:BB:1481:U:H2'	35:BB:1482:G:H4'	2.03	0.40
42:BI:101:SER:OG	42:BI:104:GLN:HG3	2.21	0.40
1:AA:908:A:C2	1:AA:909:A:C4	3.09	0.40
6:AF:74:LEU:HA	6:AF:74:LEU:HD23	1.79	0.40
11:AK:83:VAL:HG12	11:AK:85:VAL:HG23	2.03	0.40
35:BB:132:G:O2'	35:BB:133:U:H5'	2.21	0.40
35:BB:311:A:O4'	35:BB:332:A:C4	2.75	0.40
35:BB:783:A:H2'	35:BB:784:G:H4'	2.02	0.40
35:BB:838:C:C5	35:BB:941:A:N6	2.89	0.40
35:BB:1171:G:C6	35:BB:1172:C:C4	3.09	0.40
35:BB:1378:A:C5	35:BB:1380:G:C5	3.10	0.40
35:BB:1759:A:C5	35:BB:1760:C:C4	3.09	0.40
36:BC:52:HIS:H	36:BC:216:ARG:NH2	2.18	0.40
43:BJ:132:HIS:N	43:BJ:132:HIS:CD2	2.88	0.40
51:BR:60:LYS:H	51:BR:100:GLY:HA3	1.86	0.40
1:AA:109:A:H3'	1:AA:110:C:H5'	2.03	0.40
1:AA:370:C:C2	1:AA:371:A:C8	3.10	0.40
2:AB:22:TRP:HA	2:AB:188:THR:HG23	2.02	0.40
10:AJ:23:ALA:HA	10:AJ:26:VAL:HG12	2.02	0.40
12:AL:53:ARG:HA	12:AL:63:THR:HA	2.04	0.40
34:BA:115:A:C2	34:BA:116:G:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:438:G:C2	35:BB:439:A:C4	3.10	0.40
35:BB:1499:C:C2	35:BB:1500:G:C8	3.09	0.40
35:BB:1684:G:C6	35:BB:1685:C:C4	3.09	0.40
35:BB:1818:U:C4	36:BC:152:GLN:HB2	2.57	0.40
35:BB:2051:A:C6	35:BB:2614:A:C4	3.10	0.40
35:BB:2702:G:H2'	35:BB:2703:C:C6	2.56	0.40
35:BB:2729:G:H2'	35:BB:2730:C:C6	2.56	0.40
1:AA:175:C:O2	1:AA:1447:A:H2	2.04	0.40
1:AA:369:G:C6	1:AA:370:C:C4	3.10	0.40
1:AA:496:A:H5'	1:AA:497:G:OP2	2.22	0.40
1:AA:1261:A:C2	1:AA:1262:C:H1'	2.57	0.40
9:AI:83:THR:HA	9:AI:97:LEU:HD13	2.04	0.40
22:AV:3:G:C2	22:AV:71:C:C2	3.08	0.40
34:BA:24:G:C6	34:BA:56:G:C2	3.10	0.40
35:BB:563:A:C5	35:BB:2018:G:C6	3.10	0.40
35:BB:877:A:C6	35:BB:901:C:C4	3.09	0.40
35:BB:1427:A:H4'	35:BB:1428:C:O4'	2.21	0.40
35:BB:1445:G:C5	35:BB:1446:C:C5	3.09	0.40
35:BB:2292:U:H2'	35:BB:2293:G:H8	1.85	0.40

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
2	AB	216/218 (99%)	159 (74%)	41 (19%)	16 (7%)	1 13
3	AC	204/206 (99%)	158 (78%)	31 (15%)	15 (7%)	1 13
4	AD	203/205 (99%)	160 (79%)	34 (17%)	9 (4%)	2 22
5	AE	148/150 (99%)	110 (74%)	27 (18%)	11 (7%)	1 13
6	AF	98/100 (98%)	73 (74%)	18 (18%)	7 (7%)	1 14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	AG	148/150 (99%)	109 (74%)	33 (22%)	6 (4%)	3	22
8	AH	127/129 (98%)	94 (74%)	27 (21%)	6 (5%)	2	21
9	AI	125/127 (98%)	99 (79%)	21 (17%)	5 (4%)	3	23
10	AJ	96/98 (98%)	71 (74%)	14 (15%)	11 (12%)	0	6
11	AK	115/117 (98%)	96 (84%)	14 (12%)	5 (4%)	2	22
12	AL	121/123 (98%)	100 (83%)	12 (10%)	9 (7%)	1	13
13	AM	111/113 (98%)	80 (72%)	19 (17%)	12 (11%)	0	7
14	AN	92/96 (96%)	57 (62%)	22 (24%)	13 (14%)	0	4
15	AO	86/88 (98%)	73 (85%)	11 (13%)	2 (2%)	6	33
16	AP	78/80 (98%)	62 (80%)	10 (13%)	6 (8%)	1	12
17	AQ	78/80 (98%)	65 (83%)	7 (9%)	6 (8%)	1	12
18	AR	53/55 (96%)	42 (79%)	8 (15%)	3 (6%)	1	17
19	AS	77/79 (98%)	61 (79%)	13 (17%)	3 (4%)	3	23
20	AT	83/85 (98%)	68 (82%)	13 (16%)	2 (2%)	6	33
21	AU	49/51 (96%)	41 (84%)	5 (10%)	3 (6%)	1	16
24	AZ	18/20 (90%)	16 (89%)	1 (6%)	1 (6%)	2	18
25	B0	75/77 (97%)	52 (69%)	20 (27%)	3 (4%)	3	23
26	B1	61/63 (97%)	45 (74%)	14 (23%)	2 (3%)	4	26
27	B2	56/58 (97%)	49 (88%)	7 (12%)	0	100	100
28	B3	54/56 (96%)	42 (78%)	9 (17%)	3 (6%)	2	18
29	B4	48/50 (96%)	39 (81%)	7 (15%)	2 (4%)	3	22
30	B5	232/234 (99%)	190 (82%)	37 (16%)	5 (2%)	6	35
31	B6	44/46 (96%)	29 (66%)	11 (25%)	4 (9%)	1	10
32	B7	62/64 (97%)	52 (84%)	5 (8%)	5 (8%)	1	12
33	B8	36/38 (95%)	30 (83%)	4 (11%)	2 (6%)	2	18
36	BC	269/271 (99%)	209 (78%)	47 (18%)	13 (5%)	2	20
37	BD	207/209 (99%)	149 (72%)	37 (18%)	21 (10%)	0	9
38	BE	199/201 (99%)	161 (81%)	23 (12%)	15 (8%)	1	13
39	BF	176/178 (99%)	131 (74%)	26 (15%)	19 (11%)	0	7
40	BG	171/176 (97%)	134 (78%)	28 (16%)	9 (5%)	2	19
41	BH	147/149 (99%)	111 (76%)	31 (21%)	5 (3%)	3	26

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	BI	139/141 (99%)	113 (81%)	21 (15%)	5 (4%)	3	25
43	BJ	140/142 (99%)	106 (76%)	24 (17%)	10 (7%)	1	14
44	BK	119/121 (98%)	95 (80%)	14 (12%)	10 (8%)	1	11
45	BL	141/143 (99%)	115 (82%)	16 (11%)	10 (7%)	1	14
46	BM	134/136 (98%)	105 (78%)	21 (16%)	8 (6%)	1	16
47	BN	118/120 (98%)	96 (81%)	16 (14%)	6 (5%)	2	19
48	BO	114/116 (98%)	98 (86%)	14 (12%)	2 (2%)	8	40
49	BP	112/114 (98%)	85 (76%)	19 (17%)	8 (7%)	1	14
50	BQ	115/117 (98%)	84 (73%)	21 (18%)	10 (9%)	1	11
51	BR	101/103 (98%)	80 (79%)	13 (13%)	8 (8%)	1	12
52	BS	108/110 (98%)	76 (70%)	21 (19%)	11 (10%)	0	8
53	BT	91/93 (98%)	60 (66%)	25 (28%)	6 (7%)	1	15
54	BU	94/102 (92%)	71 (76%)	16 (17%)	7 (7%)	1	13
55	BW	92/94 (98%)	76 (83%)	10 (11%)	6 (6%)	1	15
56	BY	77/79 (98%)	46 (60%)	18 (23%)	13 (17%)	0	3
All	All	5858/5971 (98%)	4523 (77%)	956 (16%)	379 (6%)	2	15

All (379) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AC	17	TRP
3	AC	116	ALA
5	AE	11	GLN
5	AE	17	VAL
9	AI	58	GLU
10	AJ	42	LEU
10	AJ	57	VAL
10	AJ	58	ASN
10	AJ	67	ILE
10	AJ	92	LEU
12	AL	32	VAL
13	AM	3	ILE
13	AM	104	ASN
14	AN	51	PRO
14	AN	80	ARG
16	AP	25	ARG
16	AP	45	GLU

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Mol	Chain	Res	Type
17	AQ	71	SER
18	AR	22	TYR
21	AU	32	ARG
26	B1	37	LEU
30	B5	217	THR
30	B5	225	ASP
37	BD	31	ALA
37	BD	71	ALA
37	BD	107	VAL
37	BD	152	PRO
38	BE	4	VAL
38	BE	183	PHE
39	BF	101	ARG
39	BF	112	ASP
40	BG	2	ARG
40	BG	100	ASN
41	BH	119	ASN
42	BI	18	ASN
43	BJ	132	HIS
43	BJ	140	LEU
44	BK	53	LYS
44	BK	71	ARG
45	BL	29	LYS
45	BL	113	ALA
47	BN	72	ASP
47	BN	119	SER
49	BP	25	VAL
50	BQ	71	ASN
50	BQ	73	ILE
50	BQ	87	VAL
50	BQ	88	GLU
51	BR	42	ALA
52	BS	61	ASN
52	BS	64	ALA
52	BS	76	VAL
52	BS	89	ALA
53	BT	38	ALA
54	BU	98	ASN
56	BY	14	ASP
56	BY	58	LEU
2	AB	22	TRP
2	AB	103	TRP

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Mol	Chain	Res	Type
2	AB	216	VAL
2	AB	218	ALA
2	AB	224	ARG
3	AC	7	ASN
3	AC	53	ARG
3	AC	82	ASP
3	AC	164	THR
4	AD	7	LYS
4	AD	36	ALA
4	AD	146	GLU
5	AE	25	LYS
5	AE	44	ARG
5	AE	89	THR
5	AE	119	VAL
6	AF	38	ARG
6	AF	63	ASN
6	AF	85	ILE
7	AG	116	ALA
8	AH	82	LEU
8	AH	95	MET
8	AH	116	ARG
10	AJ	17	LEU
10	AJ	33	GLY
10	AJ	35	GLN
10	AJ	85	ASP
11	AK	79	LYS
12	AL	33	CYS
12	AL	46	SER
12	AL	54	VAL
13	AM	16	ILE
13	AM	29	SER
13	AM	47	LEU
13	AM	87	GLY
14	AN	30	ILE
14	AN	43	ALA
14	AN	45	LEU
14	AN	99	SER
16	AP	12	LYS
16	AP	54	LEU
17	AQ	12	VAL
21	AU	29	ALA
26	B1	2	LYS

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Mol	Chain	Res	Type
31	B6	15	SER
32	B7	30	HIS
33	B8	7	VAL
36	BC	19	VAL
36	BC	35	LYS
36	BC	121	ALA
36	BC	168	GLY
36	BC	177	SER
37	BD	74	GLU
37	BD	118	PHE
37	BD	137	SER
37	BD	161	MET
37	BD	174	SER
38	BE	30	GLN
38	BE	116	ASP
38	BE	130	LYS
39	BF	44	ALA
39	BF	84	ILE
39	BF	103	ILE
39	BF	106	ALA
39	BF	145	VAL
40	BG	29	ASN
40	BG	39	ALA
40	BG	94	ARG
41	BH	91	PHE
43	BJ	47	HIS
43	BJ	111	LYS
44	BK	112	PHE
44	BK	113	MET
46	BM	55	ARG
46	BM	56	ALA
46	BM	67	VAL
46	BM	72	PRO
46	BM	73	ILE
46	BM	122	ALA
47	BN	63	ARG
49	BP	35	SER
49	BP	81	ASP
49	BP	105	LYS
51	BR	3	ALA
51	BR	16	GLU
51	BR	27	ILE

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Mol	Chain	Res	Type
51	BR	53	PHE
51	BR	65	ALA
52	BS	53	SER
53	BT	36	LYS
53	BT	73	ARG
54	BU	63	ALA
54	BU	94	PHE
55	BW	44	HIS
55	BW	66	ASP
56	BY	33	GLY
56	BY	69	GLU
56	BY	74	LYS
56	BY	75	ASN
2	AB	63	LYS
2	AB	84	LEU
3	AC	106	ARG
3	AC	126	ARG
4	AD	192	ALA
6	AF	94	HIS
6	AF	99	ALA
7	AG	118	ARG
7	AG	138	GLU
9	AI	9	GLY
10	AJ	79	PRO
11	AK	101	ALA
12	AL	24	GLU
12	AL	60	PHE
12	AL	90	PRO
13	AM	30	LYS
13	AM	105	ALA
14	AN	52	ARG
14	AN	61	ASN
17	AQ	49	ASN
17	AQ	63	CYS
17	AQ	66	LEU
18	AR	26	ALA
20	AT	47	GLN
21	AU	30	GLU
25	B0	17	ARG
28	B3	49	ARG
30	B5	159	GLY
30	B5	206	GLY

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Mol	Chain	Res	Type
31	B6	35	ARG
32	B7	49	VAL
36	BC	189	ALA
36	BC	205	GLY
36	BC	240	GLY
37	BD	30	GLU
37	BD	65	ALA
37	BD	175	LEU
37	BD	176	ASP
37	BD	194	PRO
37	BD	207	VAL
38	BE	2	GLU
38	BE	16	GLU
38	BE	45	ALA
38	BE	83	VAL
38	BE	106	LYS
39	BF	59	ILE
39	BF	107	VAL
39	BF	148	VAL
40	BG	136	ASP
41	BH	15	LEU
42	BI	23	VAL
43	BJ	59	ALA
43	BJ	71	ASP
44	BK	36	GLY
44	BK	92	GLU
44	BK	120	PRO
45	BL	43	GLY
45	BL	64	PHE
47	BN	42	LYS
49	BP	13	LYS
50	BQ	9	ALA
50	BQ	91	ARG
51	BR	98	ILE
52	BS	2	GLU
52	BS	30	SER
52	BS	62	ASP
54	BU	85	ARG
54	BU	99	SER
55	BW	45	ASP
55	BW	82	TYR
56	BY	40	ARG

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Mol	Chain	Res	Type
2	AB	33	ALA
2	AB	79	VAL
2	AB	156	LEU
3	AC	15	LYS
3	AC	107	LYS
3	AC	111	ASP
4	AD	47	LEU
4	AD	119	HIS
4	AD	147	LYS
7	AG	40	SER
8	AH	66	GLN
8	AH	72	GLU
9	AI	12	LYS
9	AI	121	ARG
12	AL	72	ASN
13	AM	7	ASN
13	AM	11	HIS
13	AM	22	TYR
14	AN	62	ARG
14	AN	66	THR
14	AN	68	ARG
15	AO	7	THR
17	AQ	5	ARG
24	AZ	18	ALA
25	B0	32	LEU
28	B3	44	ALA
29	B4	37	LYS
31	B6	33	ARG
32	B7	51	LYS
36	BC	58	LYS
36	BC	112	GLY
36	BC	132	ARG
37	BD	109	VAL
37	BD	151	THR
38	BE	96	VAL
39	BF	41	GLU
39	BF	46	LYS
39	BF	78	ILE
39	BF	82	TYR
40	BG	31	GLU
40	BG	175	LYS
43	BJ	81	ILE

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Mol	Chain	Res	Type
43	BJ	84	ILE
44	BK	91	SER
45	BL	36	LYS
45	BL	117	THR
45	BL	143	GLU
46	BM	61	GLY
47	BN	98	LEU
47	BN	100	CYS
48	BO	16	ARG
48	BO	107	ALA
49	BP	47	ILE
50	BQ	78	PHE
52	BS	31	GLN
52	BS	41	LYS
53	BT	28	ASN
54	BU	12	VAL
55	BW	10	LYS
55	BW	93	ARG
56	BY	52	CYS
56	BY	61	LYS
2	AB	47	PRO
2	AB	87	ASP
2	AB	132	GLU
2	AB	165	ALA
3	AC	42	LEU
3	AC	128	MET
3	AC	175	HIS
4	AD	68	GLU
4	AD	163	GLN
5	AE	131	ASN
5	AE	137	ARG
6	AF	79	ARG
7	AG	114	SER
10	AJ	16	ARG
12	AL	118	VAL
13	AM	65	GLU
15	AO	87	ARG
19	AS	23	GLU
19	AS	31	ARG
20	AT	67	HIS
25	B0	27	ARG
28	B3	20	ALA

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Mol	Chain	Res	Type
29	B4	33	LEU
32	B7	7	ARG
32	B7	43	LEU
36	BC	203	VAL
37	BD	122	VAL
37	BD	138	LEU
38	BE	164	LEU
38	BE	167	VAL
39	BF	2	LYS
39	BF	27	VAL
39	BF	74	ALA
39	BF	79	ARG
41	BH	123	ARG
42	BI	14	ALA
43	BJ	52	ASP
44	BK	6	THR
49	BP	54	LEU
49	BP	76	HIS
53	BT	21	SER
53	BT	70	HIS
54	BU	38	ILE
2	AB	72	LYS
5	AE	110	MET
6	AF	80	PHE
8	AH	43	GLY
9	AI	27	ILE
11	AK	125	LYS
14	AN	21	ALA
14	AN	31	SER
16	AP	17	TYR
18	AR	35	SER
30	B5	55	SER
33	B8	16	ILE
37	BD	203	VAL
39	BF	24	VAL
42	BI	2	LYS
46	BM	134	THR
50	BQ	81	GLY
52	BS	72	THR
56	BY	35	ILE
56	BY	73	PRO
2	AB	70	GLY

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Mol	Chain	Res	Type
3	AC	154	GLY
5	AE	15	ILE
5	AE	118	GLY
16	AP	36	VAL
37	BD	9	VAL
38	BE	89	PRO
42	BI	4	VAL
43	BJ	96	ARG
45	BL	122	VAL
11	AK	96	ILE
38	BE	82	GLY
40	BG	125	PRO
45	BL	100	ILE
50	BQ	33	VAL
56	BY	47	GLY
56	BY	50	VAL
7	AG	79	VAL
11	AK	15	VAL
31	B6	44	VAL
41	BH	16	GLY
19	AS	61	VAL
36	BC	125	PRO
44	BK	35	VAL
45	BL	114	GLY
50	BQ	39	ILE
51	BR	101	ILE

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
2	AB	180/180 (100%)	171 (95%)	9 (5%)	24 49
3	AC	170/170 (100%)	158 (93%)	12 (7%)	14 39
4	AD	172/172 (100%)	165 (96%)	7 (4%)	30 55
5	AE	113/113 (100%)	103 (91%)	10 (9%)	10 31

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	AF	87/87 (100%)	85 (98%)	2 (2%)	50	70
7	AG	123/123 (100%)	120 (98%)	3 (2%)	49	69
8	AH	104/104 (100%)	99 (95%)	5 (5%)	25	51
9	AI	105/105 (100%)	100 (95%)	5 (5%)	25	51
10	AJ	86/86 (100%)	81 (94%)	5 (6%)	20	45
11	AK	90/90 (100%)	86 (96%)	4 (4%)	28	53
12	AL	103/103 (100%)	98 (95%)	5 (5%)	25	50
13	AM	91/91 (100%)	89 (98%)	2 (2%)	52	71
14	AN	79/79 (100%)	76 (96%)	3 (4%)	33	57
15	AO	76/76 (100%)	69 (91%)	7 (9%)	9	29
16	AP	65/65 (100%)	62 (95%)	3 (5%)	27	52
17	AQ	74/74 (100%)	68 (92%)	6 (8%)	11	35
18	AR	48/48 (100%)	44 (92%)	4 (8%)	11	34
19	AS	70/70 (100%)	64 (91%)	6 (9%)	10	32
20	AT	65/65 (100%)	64 (98%)	1 (2%)	65	80
21	AU	44/44 (100%)	38 (86%)	6 (14%)	3	17
25	B0	67/67 (100%)	65 (97%)	2 (3%)	41	63
26	B1	55/55 (100%)	50 (91%)	5 (9%)	9	30
27	B2	48/48 (100%)	47 (98%)	1 (2%)	53	72
28	B3	47/47 (100%)	46 (98%)	1 (2%)	53	72
29	B4	45/45 (100%)	42 (93%)	3 (7%)	16	40
30	B5	181/181 (100%)	175 (97%)	6 (3%)	38	61
31	B6	38/38 (100%)	33 (87%)	5 (13%)	4	18
32	B7	51/51 (100%)	48 (94%)	3 (6%)	19	45
33	B8	34/34 (100%)	34 (100%)	0	100	100
36	BC	216/216 (100%)	204 (94%)	12 (6%)	21	46
37	BD	164/164 (100%)	146 (89%)	18 (11%)	6	22
38	BE	165/165 (100%)	157 (95%)	8 (5%)	25	51
39	BF	149/149 (100%)	143 (96%)	6 (4%)	31	55
40	BG	136/137 (99%)	125 (92%)	11 (8%)	11	35
41	BH	114/114 (100%)	110 (96%)	4 (4%)	36	59

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	BI	109/109 (100%)	104 (95%)	5 (5%)	27	52
43	BJ	116/116 (100%)	112 (97%)	4 (3%)	37	60
44	BK	102/102 (100%)	92 (90%)	10 (10%)	8	26
45	BL	102/102 (100%)	98 (96%)	4 (4%)	32	56
46	BM	109/109 (100%)	104 (95%)	5 (5%)	27	52
47	BN	100/100 (100%)	96 (96%)	4 (4%)	31	55
48	BO	86/86 (100%)	84 (98%)	2 (2%)	50	70
49	BP	99/99 (100%)	96 (97%)	3 (3%)	41	63
50	BQ	89/89 (100%)	83 (93%)	6 (7%)	16	40
51	BR	84/84 (100%)	76 (90%)	8 (10%)	8	28
52	BS	93/93 (100%)	87 (94%)	6 (6%)	17	42
53	BT	80/80 (100%)	68 (85%)	12 (15%)	3	15
54	BU	81/83 (98%)	76 (94%)	5 (6%)	18	43
55	BW	78/78 (100%)	73 (94%)	5 (6%)	17	42
56	BY	59/59 (100%)	54 (92%)	5 (8%)	10	33
All	All	4842/4845 (100%)	4568 (94%)	274 (6%)	24	45

All (274) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	17	HIS
2	AB	38	HIS
2	AB	72	LYS
2	AB	81	ASP
2	AB	101	THR
2	AB	103	TRP
2	AB	104	LYS
2	AB	174	GLU
2	AB	186	VAL
3	AC	14	VAL
3	AC	25	THR
3	AC	27	GLU
3	AC	38	VAL
3	AC	44	LYS
3	AC	83	VAL
3	AC	106	ARG
3	AC	133	MET

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Mol	Chain	Res	Type
3	AC	164	THR
3	AC	168	ARG
3	AC	171	ARG
3	AC	174	LEU
4	AD	34	GLU
4	AD	43	ARG
4	AD	71	PHE
4	AD	110	ARG
4	AD	136	VAL
4	AD	170	LEU
4	AD	198	LEU
5	AE	14	LEU
5	AE	70	MET
5	AE	85	LYS
5	AE	96	GLN
5	AE	100	GLU
5	AE	110	MET
5	AE	121	ASN
5	AE	137	ARG
5	AE	146	MET
5	AE	150	GLU
6	AF	55	HIS
6	AF	91	ARG
7	AG	2	ARG
7	AG	8	GLN
7	AG	135	LYS
8	AH	28	SER
8	AH	41	GLU
8	AH	65	PHE
8	AH	75	GLN
8	AH	117	GLN
9	AI	11	ARG
9	AI	35	GLU
9	AI	44	ARG
9	AI	60	LEU
9	AI	90	ASP
10	AJ	5	ARG
10	AJ	50	THR
10	AJ	56	HIS
10	AJ	73	LEU
10	AJ	75	ASP
11	AK	75	GLU

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Mol	Chain	Res	Type
11	AK	90	PRO
11	AK	93	GLU
11	AK	122	PRO
12	AL	29	LYS
12	AL	50	LYS
12	AL	54	VAL
12	AL	93	ARG
12	AL	115	LYS
13	AM	18	LEU
13	AM	91	ARG
14	AN	23	ARG
14	AN	81	ILE
14	AN	88	MET
15	AO	2	LEU
15	AO	46	LYS
15	AO	63	ARG
15	AO	72	LYS
15	AO	76	ARG
15	AO	77	TYR
15	AO	88	ARG
16	AP	34	GLU
16	AP	59	HIS
16	AP	67	ILE
17	AQ	7	LEU
17	AQ	51	GLU
17	AQ	56	ASP
17	AQ	66	LEU
17	AQ	73	THR
17	AQ	76	ARG
18	AR	19	GLU
18	AR	52	ARG
18	AR	65	SER
18	AR	72	ARG
19	AS	9	PHE
19	AS	11	ASP
19	AS	22	VAL
19	AS	23	GLU
19	AS	52	ASN
19	AS	60	PHE
20	AT	55	PRO
21	AU	3	ILE
21	AU	7	GLU

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Mol	Chain	Res	Type
21	AU	8	ASN
21	AU	16	ARG
21	AU	30	GLU
21	AU	53	LYS
25	B0	26	ARG
25	B0	47	THR
26	B1	9	LYS
26	B1	10	SER
26	B1	15	ASN
26	B1	50	VAL
26	B1	57	LEU
27	B2	3	THR
28	B3	51	ARG
29	B4	11	VAL
29	B4	32	LYS
29	B4	45	HIS
30	B5	44	VAL
30	B5	56	ASP
30	B5	166	ASP
30	B5	174	THR
30	B5	180	PHE
30	B5	213	SER
31	B6	5	PHE
31	B6	15	SER
31	B6	22	MET
31	B6	26	ASN
31	B6	34	ARG
32	B7	15	LYS
32	B7	27	ASN
32	B7	53	ASP
36	BC	10	PRO
36	BC	13	ARG
36	BC	25	LYS
36	BC	58	LYS
36	BC	120	ASP
36	BC	129	LEU
36	BC	140	VAL
36	BC	162	GLN
36	BC	164	VAL
36	BC	173	LEU
36	BC	212	TRP
36	BC	227	VAL

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Mol	Chain	Res	Type
37	BD	2	ILE
37	BD	17	GLU
37	BD	30	GLU
37	BD	33	ARG
37	BD	35	THR
37	BD	45	TYR
37	BD	46	ARG
37	BD	60	VAL
37	BD	74	GLU
37	BD	84	LEU
37	BD	105	LYS
37	BD	130	GLN
37	BD	149	ASN
37	BD	151	THR
37	BD	161	MET
37	BD	183	GLU
37	BD	197	THR
37	BD	201	LEU
38	BE	1	MET
38	BE	60	TRP
38	BE	79	ARG
38	BE	89	PRO
38	BE	134	LEU
38	BE	173	THR
38	BE	176	ASP
38	BE	185	LYS
39	BF	3	LEU
39	BF	55	ASP
39	BF	111	ARG
39	BF	129	MET
39	BF	135	ILE
39	BF	151	LEU
40	BG	21	GLN
40	BG	23	ILE
40	BG	25	ILE
40	BG	34	ARG
40	BG	36	LEU
40	BG	38	ASP
40	BG	72	ASN
40	BG	88	LEU
40	BG	123	GLU
40	BG	154	GLU

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Mol	Chain	Res	Type
40	BG	167	VAL
41	BH	12	LEU
41	BH	68	ARG
41	BH	97	ARG
41	BH	144	VAL
42	BI	54	ILE
42	BI	91	LYS
42	BI	99	LYS
42	BI	121	ILE
42	BI	140	GLU
43	BJ	52	ASP
43	BJ	124	VAL
43	BJ	132	HIS
43	BJ	135	GLN
44	BK	6	THR
44	BK	41	ILE
44	BK	49	ARG
44	BK	57	VAL
44	BK	61	VAL
44	BK	69	VAL
44	BK	71	ARG
44	BK	80	ASP
44	BK	89	ASN
44	BK	114	LYS
45	BL	3	LEU
45	BL	6	LEU
45	BL	51	GLU
45	BL	73	ILE
46	BM	22	GLN
46	BM	60	GLN
46	BM	66	ARG
46	BM	70	ASP
46	BM	71	LYS
47	BN	50	PRO
47	BN	85	PRO
47	BN	99	LYS
47	BN	112	TYR
48	BO	48	LEU
48	BO	69	ASP
49	BP	13	LYS
49	BP	42	PHE
49	BP	88	ARG

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Mol	Chain	Res	Type
50	BQ	14	LYS
50	BQ	18	LYS
50	BQ	33	VAL
50	BQ	38	VAL
50	BQ	40	LYS
50	BQ	99	VAL
51	BR	13	ARG
51	BR	21	ARG
51	BR	22	LEU
51	BR	64	VAL
51	BR	72	VAL
51	BR	78	ARG
51	BR	80	ARG
51	BR	86	GLN
52	BS	7	HIS
52	BS	20	VAL
52	BS	22	ASP
52	BS	31	GLN
52	BS	48	LYS
52	BS	82	MET
53	BT	3	ARG
53	BT	5	GLU
53	BT	7	LEU
53	BT	16	VAL
53	BT	29	THR
53	BT	32	LEU
53	BT	34	VAL
53	BT	61	LEU
53	BT	72	GLN
53	BT	86	THR
53	BT	91	GLN
53	BT	92	ASN
54	BU	3	LYS
54	BU	14	THR
54	BU	81	ARG
54	BU	85	ARG
54	BU	98	ASN
55	BW	1	MET
55	BW	29	ILE
55	BW	42	LEU
55	BW	68	LYS
55	BW	75	GLN

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Mol	Chain	Res	Type
56	BY	19	ARG
56	BY	25	PHE
56	BY	34	SER
56	BY	35	ILE
56	BY	65	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (80) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	17	HIS
2	AB	92	ASN
2	AB	167	HIS
2	AB	189	ASN
3	AC	139	ASN
3	AC	175	HIS
4	AD	88	ASN
5	AE	88	HIS
5	AE	96	GLN
5	AE	120	HIS
5	AE	134	ASN
5	AE	147	ASN
6	AF	3	HIS
6	AF	37	HIS
6	AF	68	GLN
6	AF	81	ASN
8	AH	66	GLN
8	AH	117	GLN
9	AI	80	HIS
9	AI	125	GLN
11	AK	23	HIS
13	AM	99	GLN
14	AN	65	GLN
15	AO	41	HIS
15	AO	45	HIS
15	AO	50	HIS
16	AP	59	HIS
17	AQ	46	HIS
19	AS	55	GLN
20	AT	19	HIS
20	AT	67	HIS
25	B0	15	ASN
25	B0	16	ASN

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Mol	Chain	Res	Type
25	B0	35	HIS
26	B1	36	GLN
26	B1	41	HIS
27	B2	33	HIS
28	B3	41	HIS
29	B4	18	HIS
29	B4	45	HIS
30	B5	103	GLN
30	B5	129	GLN
31	B6	6	GLN
32	B7	25	HIS
32	B7	42	HIS
36	BC	141	HIS
36	BC	225	ASN
37	BD	32	ASN
37	BD	67	HIS
38	BE	92	HIS
38	BE	163	ASN
38	BE	165	HIS
39	BF	134	GLN
40	BG	103	ASN
42	BI	11	GLN
42	BI	33	ASN
42	BI	93	ASN
43	BJ	40	HIS
43	BJ	77	HIS
43	BJ	80	HIS
43	BJ	132	HIS
44	BK	29	HIS
44	BK	89	ASN
47	BN	16	HIS
47	BN	31	HIS
49	BP	76	HIS
50	BQ	13	HIS
50	BQ	36	GLN
51	BR	66	HIS
51	BR	87	GLN
51	BR	89	HIS
51	BR	91	GLN
52	BS	61	ASN
52	BS	102	HIS
53	BT	15	HIS

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Mol	Chain	Res	Type
54	BU	39	ASN
54	BU	45	GLN
54	BU	98	ASN
55	BW	44	HIS
55	BW	88	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1529/1530 (99%)	269 (17%)	34 (2%)
22	AV	76/77 (98%)	15 (19%)	0
23	AX	10/11 (90%)	8 (80%)	0
34	BA	112/117 (95%)	16 (14%)	2 (1%)
35	BB	2902/2903 (99%)	471 (16%)	56 (1%)
All	All	4629/4638 (99%)	779 (16%)	92 (1%)

All (779) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	A
1	AA	9	G
1	AA	15	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	50	A
1	AA	51	A
1	AA	52	C
1	AA	55	A
1	AA	60	A
1	AA	61	G
1	AA	67	C
1	AA	70	U
1	AA	71	A
1	AA	75	G
1	AA	79	G
1	AA	80	A
1	AA	83	C
1	AA	84	U

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Mol	Chain	Res	Type
1	AA	85	U
1	AA	86	G
1	AA	88	U
1	AA	91	U
1	AA	101	A
1	AA	130	A
1	AA	144	G
1	AA	149	A
1	AA	155	A
1	AA	182	A
1	AA	197	A
1	AA	204	G
1	AA	205	A
1	AA	209	U
1	AA	210	C
1	AA	211	G
1	AA	239	U
1	AA	240	G
1	AA	243	A
1	AA	244	U
1	AA	245	U
1	AA	247	G
1	AA	252	U
1	AA	253	A
1	AA	257	G
1	AA	258	G
1	AA	266	G
1	AA	267	C
1	AA	280	C
1	AA	289	G
1	AA	306	A
1	AA	308	C
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	345	C
1	AA	352	C
1	AA	354	G
1	AA	367	U
1	AA	373	A
1	AA	374	A
1	AA	382	A

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Mol	Chain	Res	Type
1	AA	397	A
1	AA	398	U
1	AA	406	G
1	AA	408	A
1	AA	409	U
1	AA	411	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	416	G
1	AA	424	G
1	AA	429	U
1	AA	430	A
1	AA	435	A
1	AA	438	U
1	AA	451	A
1	AA	453	G
1	AA	456	A
1	AA	459	A
1	AA	460	A
1	AA	461	A
1	AA	462	G
1	AA	463	U
1	AA	465	A
1	AA	466	A
1	AA	468	A
1	AA	471	U
1	AA	482	A
1	AA	484	G
1	AA	485	U
1	AA	486	U
1	AA	493	A
1	AA	499	A
1	AA	508	U
1	AA	511	C
1	AA	512	U
1	AA	518	C
1	AA	524	G
1	AA	527	G
1	AA	533	A
1	AA	547	A
1	AA	562	U

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Mol	Chain	Res	Type
1	AA	563	A
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	C
1	AA	577	G
1	AA	596	A
1	AA	631	C
1	AA	632	U
1	AA	633	G
1	AA	653	U
1	AA	665	A
1	AA	666	G
1	AA	700	G
1	AA	702	A
1	AA	703	G
1	AA	721	G
1	AA	724	G
1	AA	731	G
1	AA	747	A
1	AA	748	G
1	AA	752	G
1	AA	755	G
1	AA	781	A
1	AA	782	A
1	AA	793	U
1	AA	794	A
1	AA	812	G
1	AA	815	A
1	AA	817	C
1	AA	819	A
1	AA	821	G
1	AA	828	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	847	G
1	AA	849	G
1	AA	873	A

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Mol	Chain	Res	Type
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	945	G
1	AA	960	U
1	AA	961	U
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	981	U
1	AA	993	G
1	AA	994	A
1	AA	996	A
1	AA	1004	A
1	AA	1018	G
1	AA	1020	G
1	AA	1028	C
1	AA	1030	U
1	AA	1032	G
1	AA	1034	G
1	AA	1035	A
1	AA	1036	A
1	AA	1050	G
1	AA	1053	G
1	AA	1055	A
1	AA	1065	U
1	AA	1066	C
1	AA	1070	U
1	AA	1085	U
1	AA	1086	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1112	C
1	AA	1118	U
1	AA	1119	C

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Mol	Chain	Res	Type
1	AA	1124	G
1	AA	1125	U
1	AA	1130	A
1	AA	1133	G
1	AA	1134	G
1	AA	1135	U
1	AA	1136	C
1	AA	1137	C
1	AA	1139	G
1	AA	1140	C
1	AA	1144	G
1	AA	1145	A
1	AA	1146	A
1	AA	1159	U
1	AA	1160	G
1	AA	1167	A
1	AA	1168	U
1	AA	1169	A
1	AA	1181	G
1	AA	1184	G
1	AA	1191	A
1	AA	1196	A
1	AA	1197	A
1	AA	1202	U
1	AA	1212	U
1	AA	1213	A
1	AA	1215	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1228	C
1	AA	1238	A
1	AA	1241	G
1	AA	1249	C
1	AA	1250	A
1	AA	1258	G
1	AA	1270	G
1	AA	1278	G
1	AA	1279	G
1	AA	1280	A
1	AA	1285	A
1	AA	1286	U

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Mol	Chain	Res	Type
1	AA	1287	A
1	AA	1297	G
1	AA	1300	G
1	AA	1301	U
1	AA	1303	C
1	AA	1305	G
1	AA	1316	G
1	AA	1320	C
1	AA	1321	U
1	AA	1323	G
1	AA	1331	G
1	AA	1336	C
1	AA	1346	A
1	AA	1353	G
1	AA	1363	A
1	AA	1364	U
1	AA	1380	U
1	AA	1381	U
1	AA	1399	C
1	AA	1419	G
1	AA	1432	G
1	AA	1446	A
1	AA	1448	C
1	AA	1451	U
1	AA	1452	C
1	AA	1454	G
1	AA	1493	A
1	AA	1494	G
1	AA	1497	G
1	AA	1499	A
1	AA	1503	A
1	AA	1506	U
1	AA	1517	G
1	AA	1520	C
1	AA	1528	U
1	AA	1529	G
1	AA	1530	G
22	AV	4	C
22	AV	5	A
22	AV	8	U
22	AV	19	G
22	AV	21	A

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Mol	Chain	Res	Type
22	AV	31	C
22	AV	33	U
22	AV	43	G
22	AV	48	C
22	AV	49	G
22	AV	53	G
22	AV	67	G
22	AV	71	C
22	AV	73	A
22	AV	76	A
23	AX	13	A
23	AX	14	A
23	AX	16	C
23	AX	17	C
23	AX	18	C
23	AX	19	A
23	AX	20	G
23	AX	22	A
34	BA	9	G
34	BA	14	U
34	BA	16	G
34	BA	26	C
34	BA	29	A
34	BA	30	C
34	BA	42	C
34	BA	45	A
34	BA	52	A
34	BA	53	A
34	BA	66	A
34	BA	67	G
34	BA	90	C
34	BA	91	C
34	BA	99	A
34	BA	109	A
35	BB	34	U
35	BB	35	G
35	BB	46	G
35	BB	71	A
35	BB	74	A
35	BB	75	G
35	BB	84	A
35	BB	91	A

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Mol	Chain	Res	Type
35	BB	95	A
35	BB	100	U
35	BB	101	A
35	BB	102	U
35	BB	103	A
35	BB	118	A
35	BB	120	U
35	BB	126	A
35	BB	128	C
35	BB	136	G
35	BB	137	U
35	BB	139	U
35	BB	140	C
35	BB	141	G
35	BB	143	C
35	BB	144	A
35	BB	160	A
35	BB	180	G
35	BB	181	A
35	BB	196	A
35	BB	199	A
35	BB	216	A
35	BB	221	A
35	BB	222	A
35	BB	233	A
35	BB	241	A
35	BB	248	G
35	BB	249	C
35	BB	255	A
35	BB	265	A
35	BB	266	G
35	BB	268	C
35	BB	271	G
35	BB	273	G
35	BB	276	U
35	BB	277	G
35	BB	281	C
35	BB	283	G
35	BB	285	G
35	BB	286	U
35	BB	294	A
35	BB	299	A

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Mol	Chain	Res	Type
35	BB	311	A
35	BB	321	U
35	BB	322	A
35	BB	329	G
35	BB	330	A
35	BB	333	G
35	BB	346	A
35	BB	352	A
35	BB	353	C
35	BB	362	A
35	BB	363	G
35	BB	364	C
35	BB	369	U
35	BB	371	A
35	BB	372	G
35	BB	386	G
35	BB	387	U
35	BB	406	G
35	BB	411	G
35	BB	412	A
35	BB	424	G
35	BB	451	U
35	BB	455	C
35	BB	456	C
35	BB	457	A
35	BB	479	A
35	BB	481	G
35	BB	490	C
35	BB	491	G
35	BB	504	A
35	BB	505	A
35	BB	508	A
35	BB	509	C
35	BB	512	G
35	BB	531	C
35	BB	532	A
35	BB	544	C
35	BB	545	U
35	BB	546	U
35	BB	547	A
35	BB	548	G
35	BB	549	G

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Mol	Chain	Res	Type
35	BB	550	C
35	BB	555	G
35	BB	563	A
35	BB	573	U
35	BB	575	A
35	BB	586	A
35	BB	588	U
35	BB	603	A
35	BB	613	A
35	BB	615	U
35	BB	627	A
35	BB	637	A
35	BB	646	U
35	BB	647	G
35	BB	653	U
35	BB	654	A
35	BB	655	A
35	BB	671	C
35	BB	686	U
35	BB	730	A
35	BB	746	U
35	BB	747	U
35	BB	757	G
35	BB	762	U
35	BB	764	A
35	BB	775	G
35	BB	782	A
35	BB	784	G
35	BB	785	G
35	BB	788	A
35	BB	793	A
35	BB	805	G
35	BB	812	C
35	BB	819	A
35	BB	827	U
35	BB	828	U
35	BB	846	U
35	BB	847	U
35	BB	858	G
35	BB	859	G
35	BB	869	G
35	BB	871	U

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Mol	Chain	Res	Type
35	BB	875	G
35	BB	876	C
35	BB	881	G
35	BB	887	U
35	BB	888	C
35	BB	891	G
35	BB	896	A
35	BB	897	C
35	BB	900	A
35	BB	901	C
35	BB	910	A
35	BB	912	C
35	BB	919	U
35	BB	931	U
35	BB	932	U
35	BB	941	A
35	BB	946	C
35	BB	958	U
35	BB	961	C
35	BB	973	A
35	BB	974	G
35	BB	983	A
35	BB	991	C
35	BB	995	C
35	BB	996	A
35	BB	1005	C
35	BB	1012	U
35	BB	1013	C
35	BB	1022	G
35	BB	1023	U
35	BB	1025	G
35	BB	1033	U
35	BB	1054	A
35	BB	1056	G
35	BB	1057	A
35	BB	1061	U
35	BB	1067	A
35	BB	1070	A
35	BB	1071	G
35	BB	1078	U
35	BB	1088	A
35	BB	1090	A

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Mol	Chain	Res	Type
35	BB	1095	A
35	BB	1096	A
35	BB	1104	C
35	BB	1112	G
35	BB	1116	G
35	BB	1130	U
35	BB	1132	U
35	BB	1133	A
35	BB	1134	A
35	BB	1135	C
35	BB	1136	G
35	BB	1139	G
35	BB	1142	A
35	BB	1176	U
35	BB	1205	A
35	BB	1206	G
35	BB	1238	G
35	BB	1241	A
35	BB	1242	U
35	BB	1248	G
35	BB	1250	G
35	BB	1253	A
35	BB	1256	G
35	BB	1266	G
35	BB	1271	G
35	BB	1272	A
35	BB	1273	U
35	BB	1275	A
35	BB	1276	A
35	BB	1300	G
35	BB	1301	A
35	BB	1312	U
35	BB	1313	U
35	BB	1321	A
35	BB	1325	U
35	BB	1332	G
35	BB	1337	G
35	BB	1341	G
35	BB	1352	U
35	BB	1365	A
35	BB	1368	G
35	BB	1374	G

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Mol	Chain	Res	Type
35	BB	1379	U
35	BB	1383	A
35	BB	1394	U
35	BB	1396	U
35	BB	1416	G
35	BB	1419	A
35	BB	1420	A
35	BB	1421	G
35	BB	1427	A
35	BB	1428	C
35	BB	1451	C
35	BB	1453	A
35	BB	1458	U
35	BB	1459	G
35	BB	1460	U
35	BB	1461	C
35	BB	1469	A
35	BB	1476	U
35	BB	1477	A
35	BB	1478	G
35	BB	1482	G
35	BB	1490	A
35	BB	1497	U
35	BB	1504	A
35	BB	1505	A
35	BB	1507	C
35	BB	1508	A
35	BB	1509	A
35	BB	1510	G
35	BB	1523	U
35	BB	1524	G
35	BB	1532	A
35	BB	1535	A
35	BB	1536	C
35	BB	1538	G
35	BB	1552	A
35	BB	1569	A
35	BB	1578	U
35	BB	1585	C
35	BB	1608	A
35	BB	1609	A
35	BB	1610	A

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Mol	Chain	Res	Type
35	BB	1618	A
35	BB	1634	A
35	BB	1635	A
35	BB	1640	A
35	BB	1647	U
35	BB	1648	U
35	BB	1654	A
35	BB	1674	G
35	BB	1699	G
35	BB	1700	A
35	BB	1714	U
35	BB	1715	G
35	BB	1729	U
35	BB	1731	G
35	BB	1733	G
35	BB	1738	G
35	BB	1756	G
35	BB	1758	U
35	BB	1761	C
35	BB	1762	A
35	BB	1764	C
35	BB	1773	A
35	BB	1776	G
35	BB	1781	U
35	BB	1800	C
35	BB	1801	A
35	BB	1808	A
35	BB	1809	A
35	BB	1816	C
35	BB	1829	A
35	BB	1870	C
35	BB	1884	G
35	BB	1896	G
35	BB	1906	G
35	BB	1913	A
35	BB	1914	C
35	BB	1929	G
35	BB	1930	G
35	BB	1937	A
35	BB	1938	A
35	BB	1940	U
35	BB	1955	U

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Mol	Chain	Res	Type
35	BB	1966	A
35	BB	1967	C
35	BB	1970	A
35	BB	1971	U
35	BB	1972	G
35	BB	1991	U
35	BB	1993	U
35	BB	1997	C
35	BB	2020	A
35	BB	2021	C
35	BB	2022	U
35	BB	2023	C
35	BB	2031	A
35	BB	2032	G
35	BB	2033	A
35	BB	2043	C
35	BB	2055	C
35	BB	2056	G
35	BB	2059	A
35	BB	2060	A
35	BB	2061	G
35	BB	2062	A
35	BB	2065	C
35	BB	2069	G
35	BB	2076	U
35	BB	2077	A
35	BB	2102	G
35	BB	2104	C
35	BB	2111	U
35	BB	2113	U
35	BB	2117	A
35	BB	2119	A
35	BB	2128	G
35	BB	2130	U
35	BB	2131	U
35	BB	2132	U
35	BB	2133	G
35	BB	2134	A
35	BB	2135	A
35	BB	2136	G
35	BB	2137	U
35	BB	2144	G

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Mol	Chain	Res	Type
35	BB	2145	C
35	BB	2146	C
35	BB	2148	G
35	BB	2149	U
35	BB	2152	G
35	BB	2153	C
35	BB	2155	U
35	BB	2158	A
35	BB	2159	G
35	BB	2160	C
35	BB	2163	A
35	BB	2164	C
35	BB	2165	C
35	BB	2166	U
35	BB	2167	U
35	BB	2176	A
35	BB	2179	C
35	BB	2181	U
35	BB	2187	U
35	BB	2192	U
35	BB	2198	A
35	BB	2203	U
35	BB	2204	G
35	BB	2212	A
35	BB	2213	U
35	BB	2214	C
35	BB	2225	A
35	BB	2226	C
35	BB	2238	G
35	BB	2239	G
35	BB	2250	G
35	BB	2251	G
35	BB	2266	A
35	BB	2278	A
35	BB	2279	G
35	BB	2283	C
35	BB	2286	G
35	BB	2287	A
35	BB	2288	A
35	BB	2297	A
35	BB	2305	U
35	BB	2307	G

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Mol	Chain	Res	Type
35	BB	2308	G
35	BB	2311	A
35	BB	2322	A
35	BB	2324	U
35	BB	2325	G
35	BB	2333	A
35	BB	2335	A
35	BB	2336	A
35	BB	2337	G
35	BB	2347	C
35	BB	2383	G
35	BB	2385	C
35	BB	2388	A
35	BB	2396	G
35	BB	2402	U
35	BB	2403	C
35	BB	2406	A
35	BB	2407	A
35	BB	2423	U
35	BB	2425	A
35	BB	2426	A
35	BB	2429	G
35	BB	2430	A
35	BB	2434	A
35	BB	2441	U
35	BB	2448	A
35	BB	2458	G
35	BB	2472	G
35	BB	2473	U
35	BB	2476	A
35	BB	2478	A
35	BB	2491	U
35	BB	2492	U
35	BB	2498	C
35	BB	2502	G
35	BB	2503	A
35	BB	2505	G
35	BB	2506	U
35	BB	2518	A
35	BB	2529	G
35	BB	2530	A
35	BB	2534	A

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Mol	Chain	Res	Type
35	BB	2535	G
35	BB	2554	U
35	BB	2555	U
35	BB	2566	A
35	BB	2567	G
35	BB	2573	C
35	BB	2586	U
35	BB	2602	A
35	BB	2609	U
35	BB	2613	U
35	BB	2629	U
35	BB	2630	G
35	BB	2682	A
35	BB	2689	U
35	BB	2713	U
35	BB	2714	G
35	BB	2726	A
35	BB	2744	G
35	BB	2748	A
35	BB	2751	G
35	BB	2757	A
35	BB	2765	A
35	BB	2778	A
35	BB	2791	G
35	BB	2793	C
35	BB	2796	U
35	BB	2797	U
35	BB	2798	U
35	BB	2799	A
35	BB	2800	A
35	BB	2808	G
35	BB	2809	A
35	BB	2820	A
35	BB	2821	A
35	BB	2832	U
35	BB	2836	U
35	BB	2849	U
35	BB	2850	A
35	BB	2867	G
35	BB	2872	A
35	BB	2873	A
35	BB	2883	A

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Mol	Chain	Res	Type
35	BB	2893	A

All (92) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	A
1	AA	51	A
1	AA	60	A
1	AA	85	U
1	AA	243	A
1	AA	279	A
1	AA	328	C
1	AA	366	A
1	AA	372	C
1	AA	381	C
1	AA	412	A
1	AA	428	G
1	AA	429	U
1	AA	461	A
1	AA	484	G
1	AA	485	U
1	AA	632	U
1	AA	815	A
1	AA	843	U
1	AA	845	A
1	AA	960	U
1	AA	976	G
1	AA	1049	U
1	AA	1065	U
1	AA	1137	C
1	AA	1168	U
1	AA	1201	A
1	AA	1214	C
1	AA	1226	C
1	AA	1257	A
1	AA	1278	G
1	AA	1300	G
1	AA	1319	A
1	AA	1529	G
34	BA	25	U
34	BA	66	A
35	BB	91	A

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Mol	Chain	Res	Type
35	BB	241	A
35	BB	320	A
35	BB	321	U
35	BB	455	C
35	BB	670	A
35	BB	827	U
35	BB	829	A
35	BB	858	G
35	BB	876	C
35	BB	880	G
35	BB	887	U
35	BB	889	C
35	BB	890	C
35	BB	891	G
35	BB	973	A
35	BB	1088	A
35	BB	1174	U
35	BB	1205	A
35	BB	1272	A
35	BB	1312	U
35	BB	1332	G
35	BB	1458	U
35	BB	1459	G
35	BB	1509	A
35	BB	1608	A
35	BB	1617	C
35	BB	1699	G
35	BB	1730	C
35	BB	1808	A
35	BB	1938	A
35	BB	1944	U
35	BB	1966	A
35	BB	2076	U
35	BB	2130	U
35	BB	2131	U
35	BB	2132	U
35	BB	2133	G
35	BB	2144	G
35	BB	2145	C
35	BB	2152	G
35	BB	2159	G
35	BB	2172	U

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Mol	Chain	Res	Type
35	BB	2282	G
35	BB	2286	G
35	BB	2307	G
35	BB	2308	G
35	BB	2336	A
35	BB	2402	U
35	BB	2406	A
35	BB	2423	U
35	BB	2425	A
35	BB	2491	U
35	BB	2601	C
35	BB	2602	A
35	BB	2756	U

5.4 Non-standard residues in protein, DNA, RNA chains (i)

1 non-standard protein/DNA/RNA residue is 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	$\#\|Z\| > 2$
22	5MU	AV	54	22	18,21,23	0.64	0	26,30,35	0.71	1 (3%)

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
22	5MU	AV	54	22	-	0/7/25/26	0/2/2/2

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AV	54	5MU	O4'-C1'-N1	2.42	113.90	108.36

There are no chirality outliers.

There are no torsion outliers.

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)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
54	BU	1
14	AN	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BU	4:ILE	C	6:ARG	N	4.65
1	AN	35:ALA	C	40:ARG	N	4.56

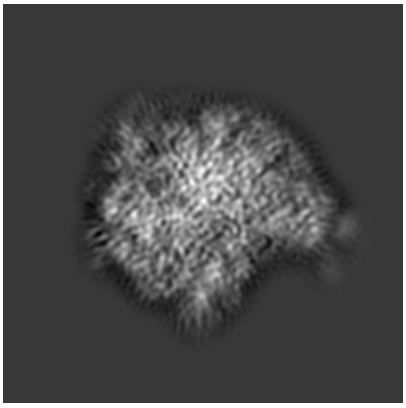
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-1657. These allow visual inspection of the internal detail of the map and identification of artifacts.

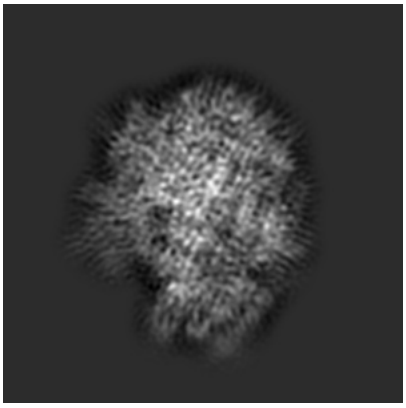
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections (i)

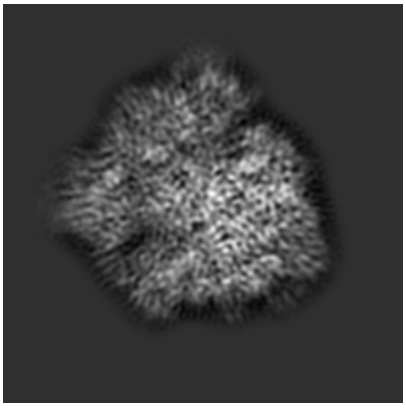
6.1.1 Primary map



X



Y

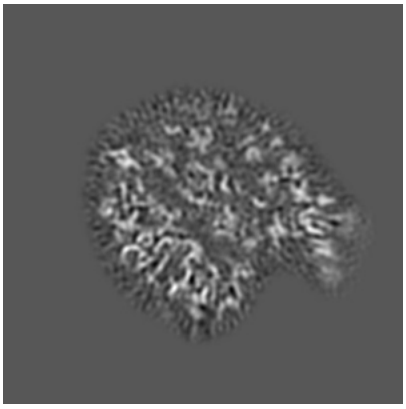


Z

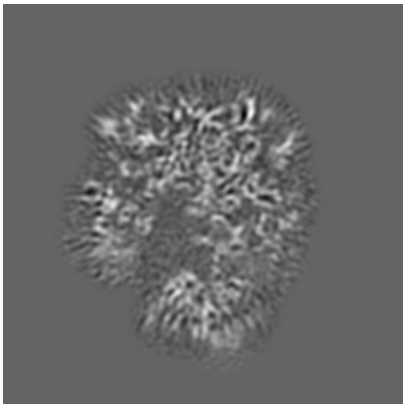
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

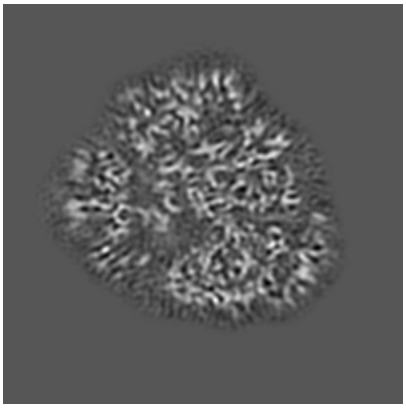
6.2.1 Primary map



X Index: 147



Y Index: 147

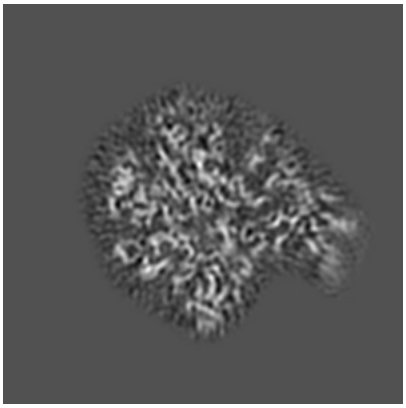


Z Index: 147

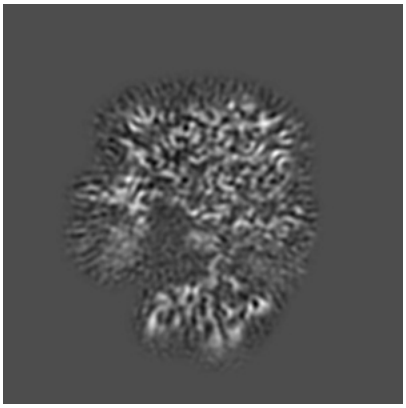
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

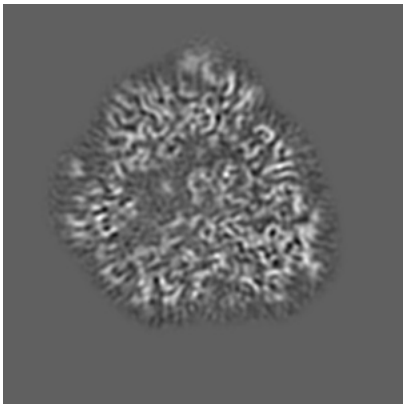
6.3.1 Primary map



X Index: 152



Y Index: 155



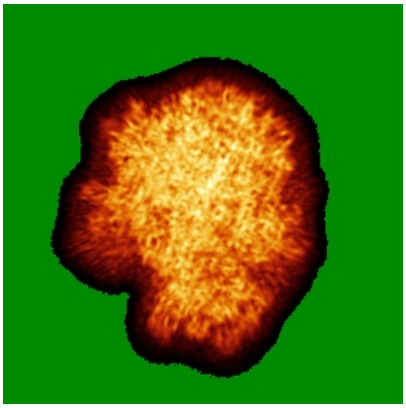
Z Index: 136

The images above show the largest variance slices of the map in three orthogonal directions.

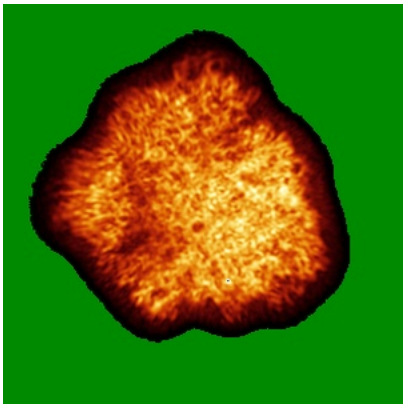
6.4 Orthogonal standard-deviation projections (False-color) (i)

6.4.1 Primary map

X



Y

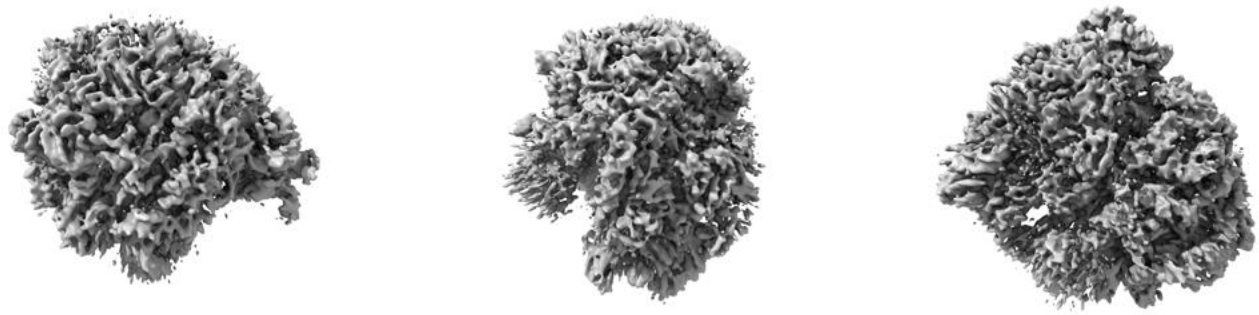


Z

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 0.12. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

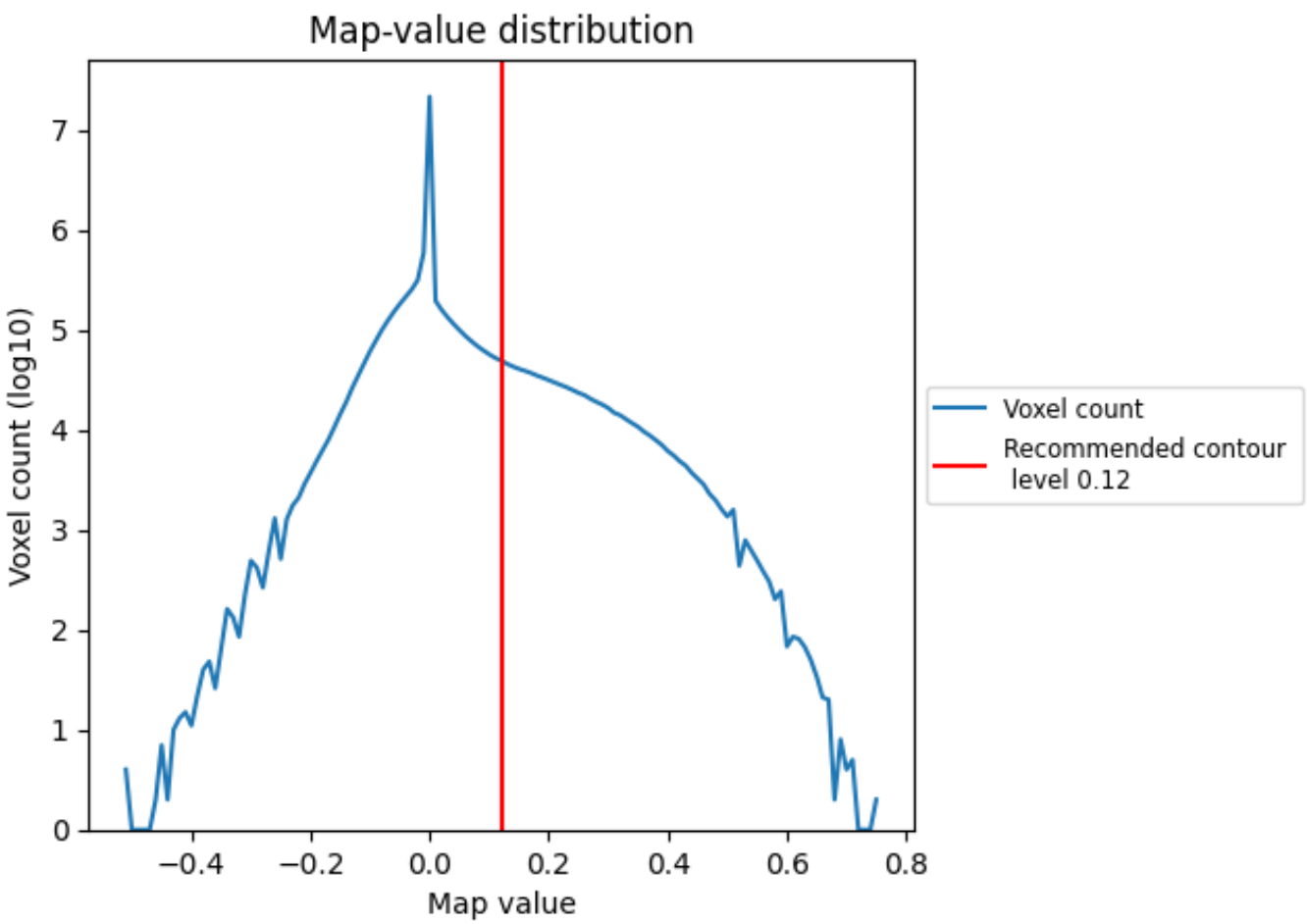
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis (i)

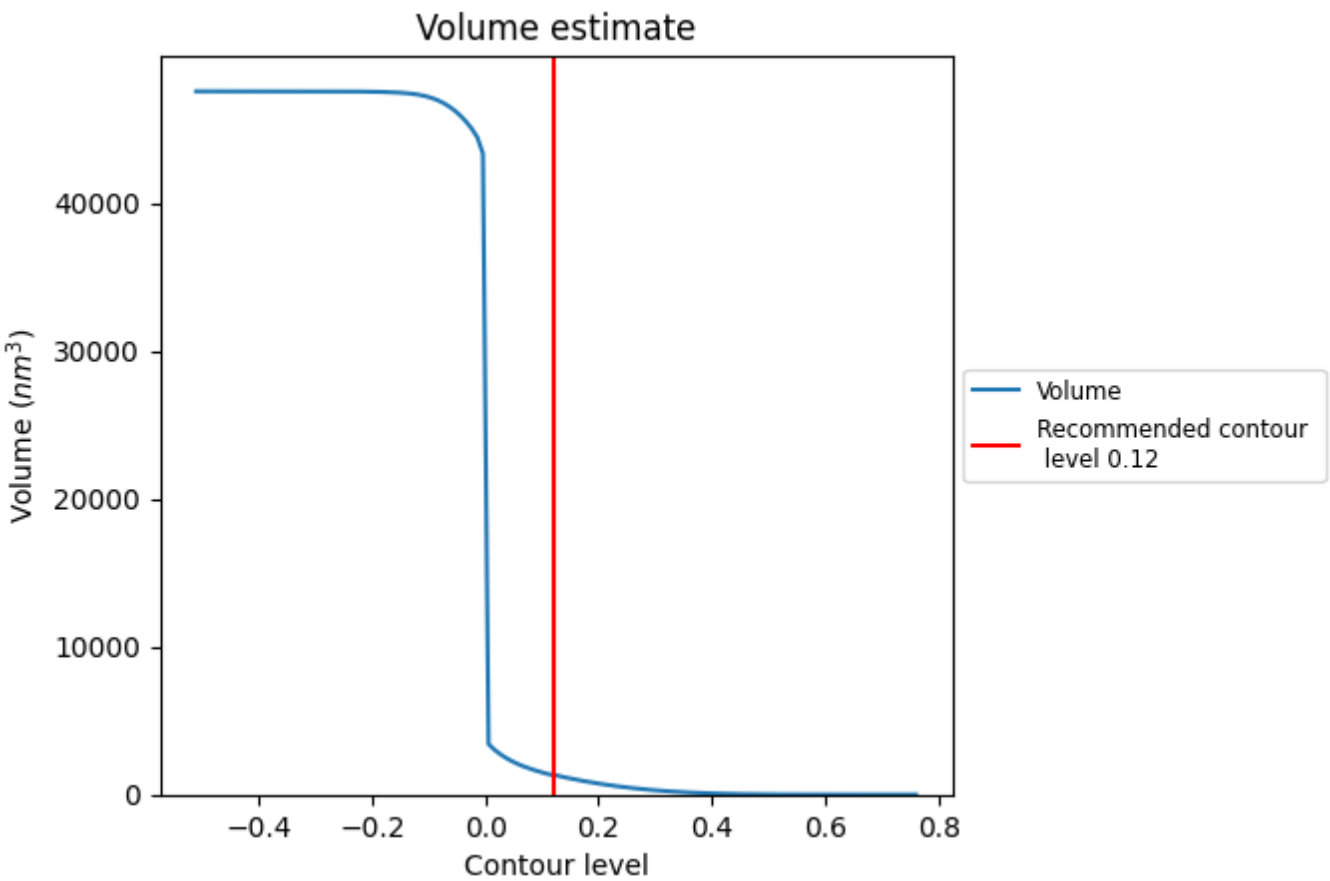
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution (i)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

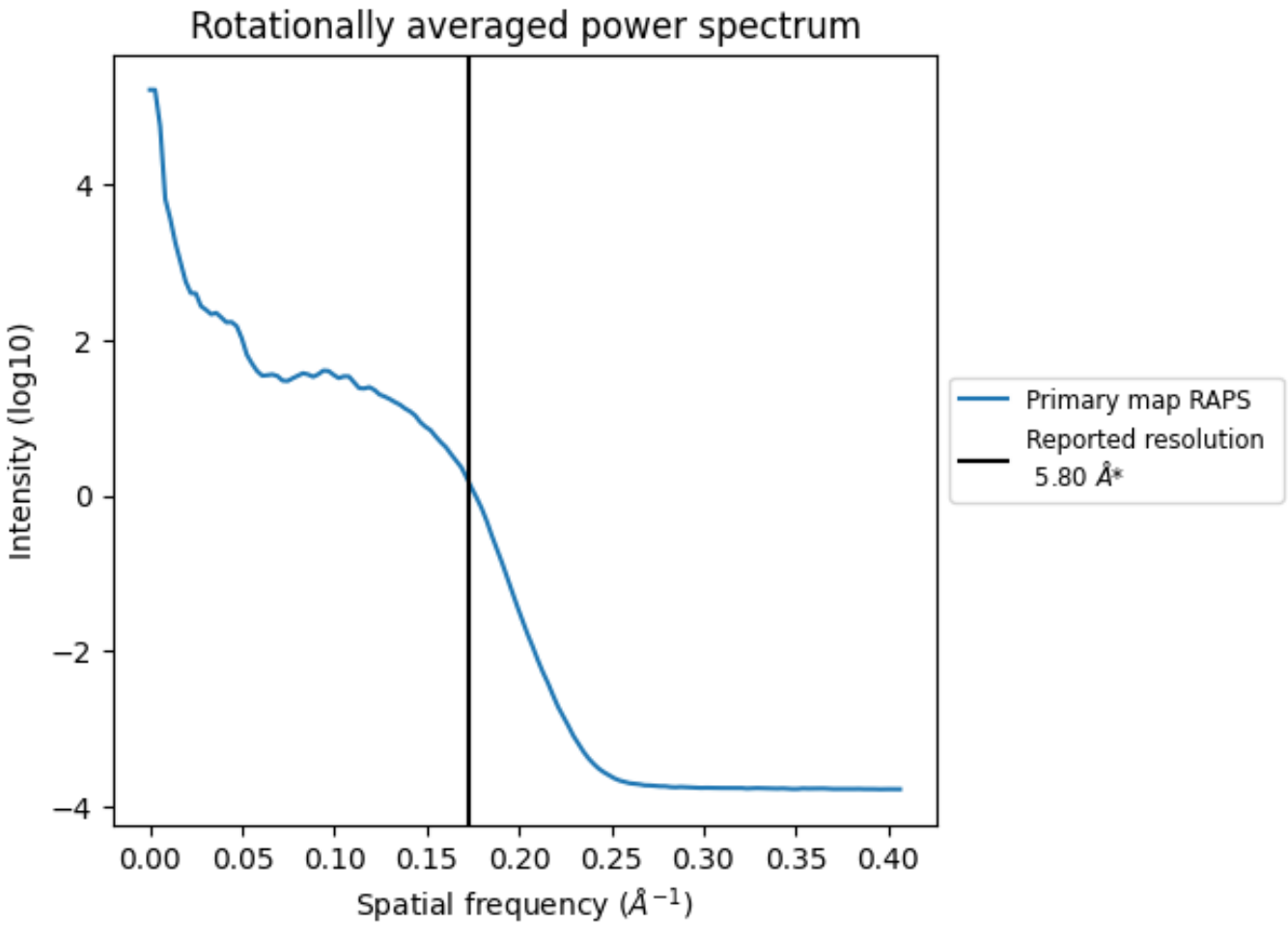
7.2 Volume estimate (i)



The volume at the recommended contour level is 1327 nm^3; this corresponds to an approximate mass of 1198 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 0.172 Å^{-1}

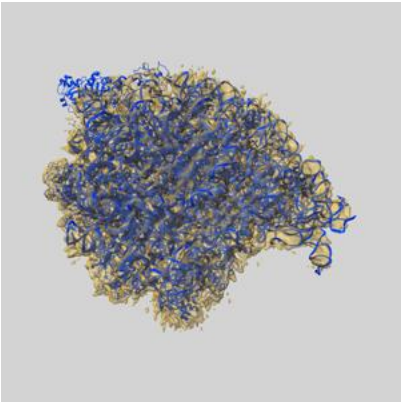
8 Fourier-Shell correlation (i)

This section was not generated. No FSC curve or half-maps provided.

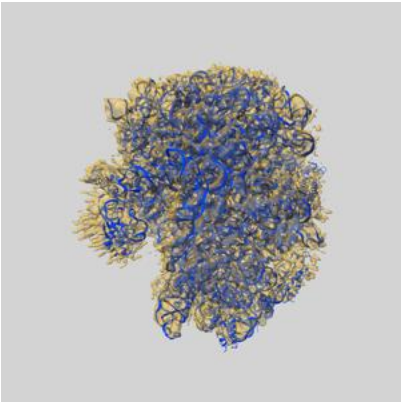
9 Map-model fit (i)

This section contains information regarding the fit between EMDB map EMD-1657 and PDB model 4V5H. Per-residue inclusion information can be found in section 3 on page 14.

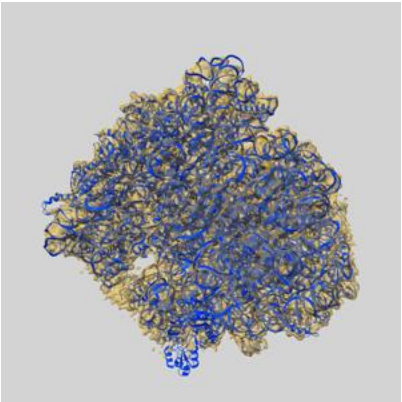
9.1 Map-model overlay (i)



X



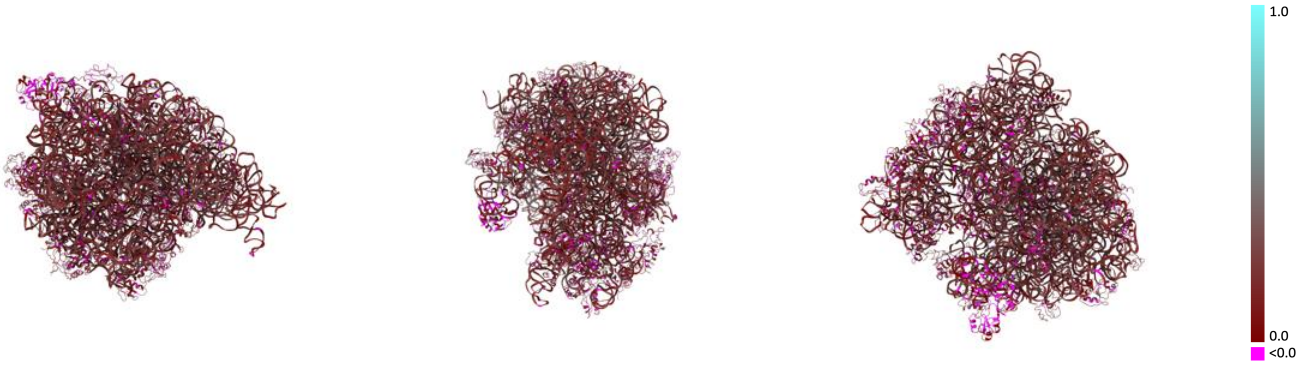
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.12 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

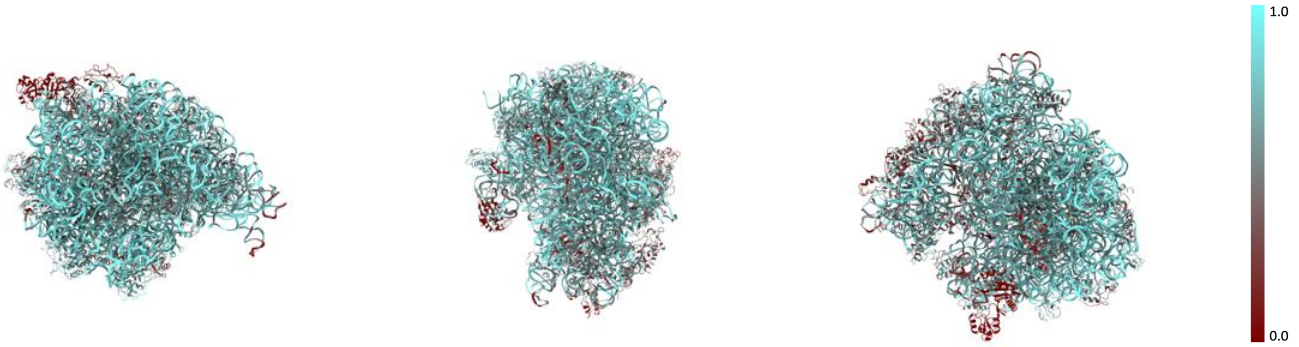
9.2 Q-score mapped to coordinate model (i)



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.

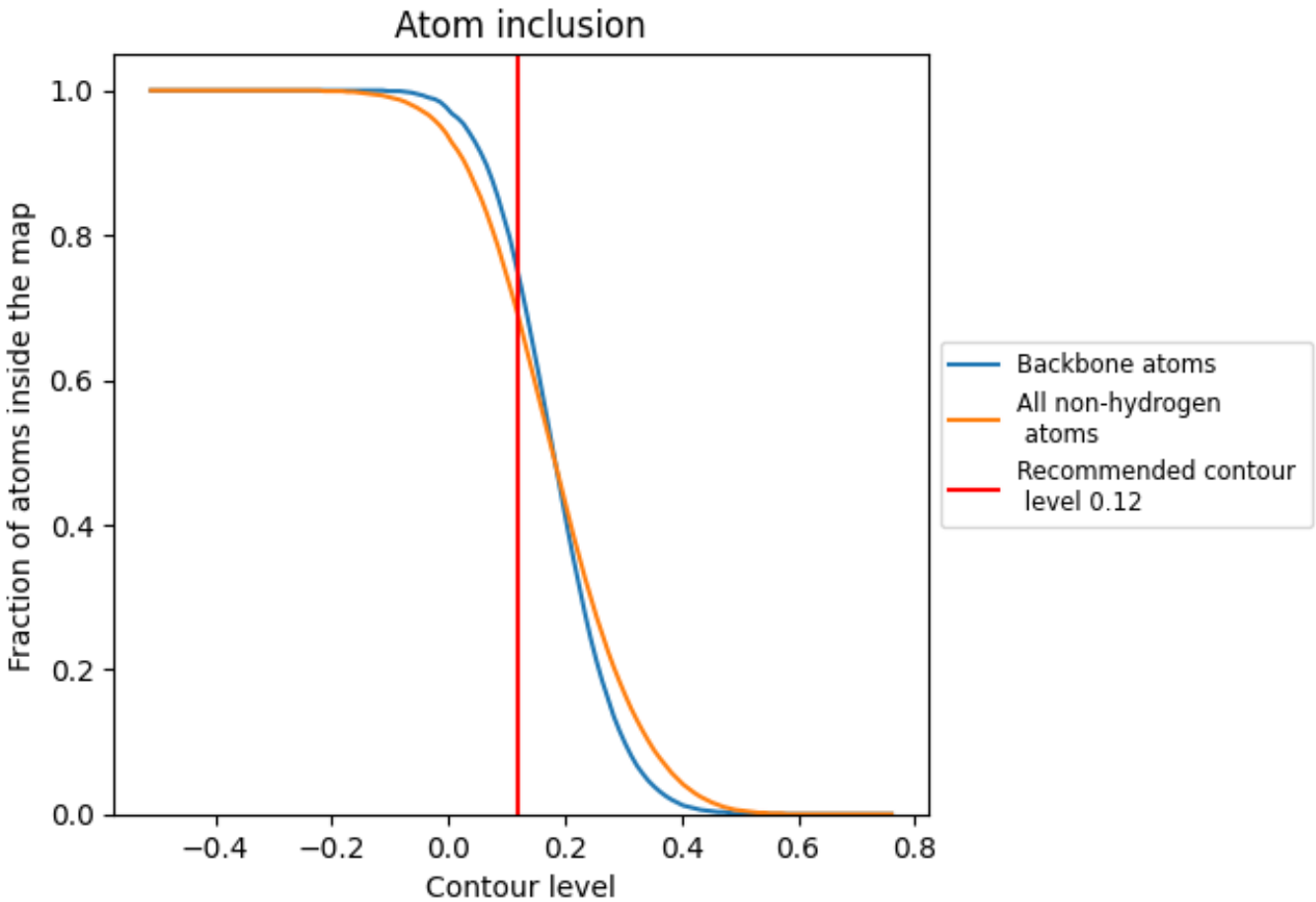
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.12).

9.4 Atom inclusion (i)



At the recommended contour level, 75% of all backbone atoms, 69% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (0.12) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6880	0.1890
AA	0.7560	0.2050
AB	0.3910	0.1500
AC	0.4960	0.1420
AD	0.4610	0.1350
AE	0.5320	0.1500
AF	0.6060	0.1760
AG	0.4700	0.1610
AH	0.5290	0.1450
AI	0.4710	0.1220
AJ	0.3250	0.1070
AK	0.5430	0.1610
AL	0.5160	0.1630
AM	0.5490	0.1550
AN	0.5610	0.1400
AO	0.5640	0.1650
AP	0.5310	0.1390
AQ	0.5680	0.1720
AR	0.5870	0.1720
AS	0.5860	0.1570
AT	0.5280	0.1460
AU	0.3500	0.1570
AV	0.5620	0.1430
AX	0.2630	0.1480
AZ	0.4900	0.3070
B0	0.5410	0.1620
B1	0.5510	0.1390
B2	0.5810	0.1740
B3	0.5650	0.1600
B4	0.5760	0.1680
B5	0.0180	-0.0010
B6	0.4650	0.1340
B7	0.5580	0.1530
B8	0.5620	0.1810
BA	0.8170	0.2140

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Chain	Atom inclusion	Q-score
BB	0.7850	0.2140
BC	0.5570	0.1700
BD	0.5980	0.1590
BE	0.4930	0.1400
BF	0.5940	0.1600
BG	0.6720	0.1850
BH	0.2460	0.1340
BI	0.2170	0.0320
BJ	0.6080	0.1750
BK	0.5070	0.1660
BL	0.5340	0.1610
BM	0.5540	0.1740
BN	0.5570	0.1360
BO	0.6230	0.1600
BP	0.5640	0.1720
BQ	0.5560	0.1160
BR	0.6200	0.1840
BS	0.5420	0.1360
BT	0.5230	0.1380
BU	0.5570	0.1560
BW	0.6440	0.1700
BY	0.5190	0.1080