



# Full wwPDB X-ray Structure Validation Report ⓘ

Aug 21, 2020 – 10:39 AM BST

PDB ID : 4V7R  
Title : Yeast 80S ribosome.  
Authors : Ben-Shem, A.; Jenner, L.; Yusupova, G.; Yusupov, M.  
Deposited on : 2010-07-23  
Resolution : 4.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

---

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.13  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.13

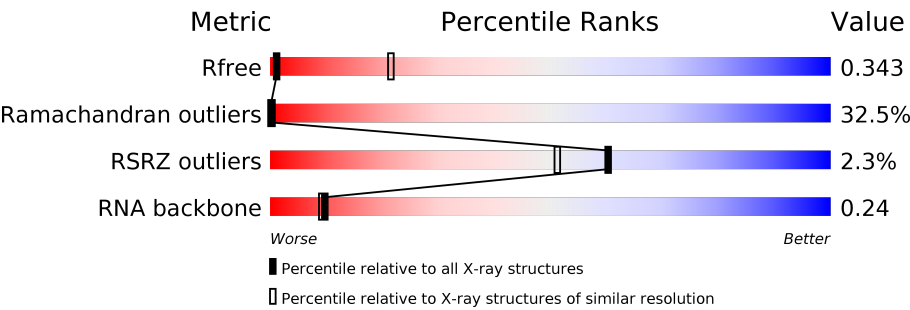
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 4.00 Å.

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





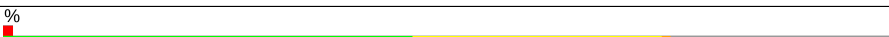
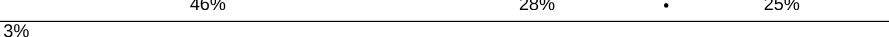



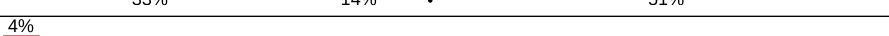



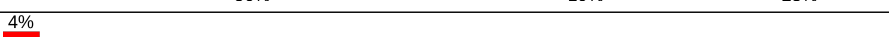








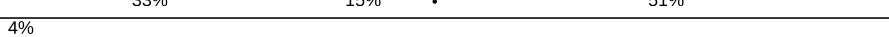



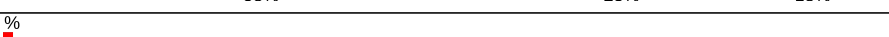
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R <sub>free</sub>	130704	1087 (4.30-3.70)
Ramachandran outliers	138981	1108 (4.30-3.70)
RSRZ outliers	127900	1028 (4.34-3.66)
RNA backbone	3102	1048 (5.00-3.00)

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

Mol	Chain	Length	Quality of chain
1	A1	1800	<div><div>3%</div><div><div></div><div>36%</div><div>54%</div><div>9%</div><div>.</div></div></div>
1	C1	1800	<div><div>3%</div><div><div></div><div>36%</div><div>54%</div><div>10%</div><div>.</div></div></div>
2	AA	252	<div><div>2%</div><div><div></div><div>56%</div><div>26%</div><div>5%</div><div>13%</div></div></div>
2	CA	252	<div><div>%</div><div><div></div><div>56%</div><div>27%</div><div>5%</div><div>13%</div></div></div>
3	AB	254	<div><div>%</div><div><div></div><div>55%</div><div>27%</div><div>.</div><div>14%</div></div></div>
3	CB	254	<div><div>%</div><div><div></div><div>56%</div><div>27%</div><div>.</div><div>14%</div></div></div>
4	AC	240	<div><div>%</div><div><div></div><div>54%</div><div>24%</div><div>.</div><div>21%</div></div></div>



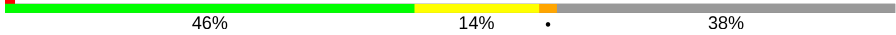
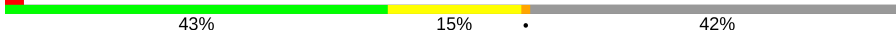
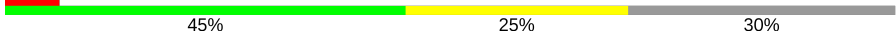
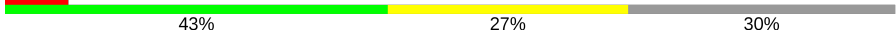
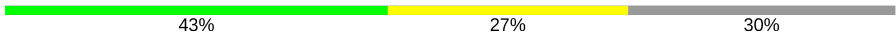
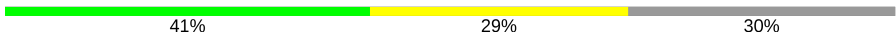


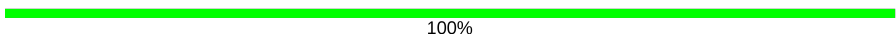
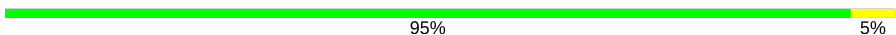

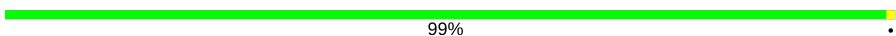



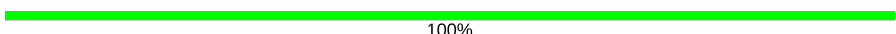
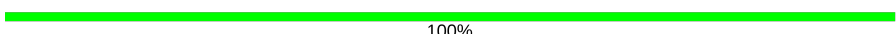
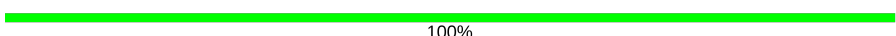

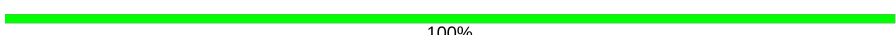
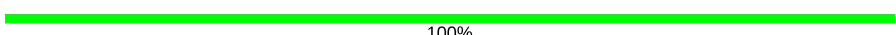
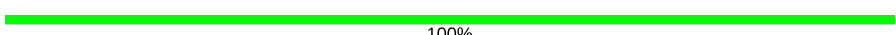

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	CC	240	
5	AD	225	
5	CD	225	
6	AE	197	
6	CE	197	
7	AF	156	
7	CF	156	
8	AG	151	
8	CG	151	
9	AH	137	
9	CH	137	
10	AI	142	
10	CI	142	
11	AJ	143	
11	CJ	143	
12	AK	136	
12	CK	136	
13	AL	146	
13	CL	146	
14	AM	144	
14	CM	144	
15	AN	121	
15	CN	121	
16	AO	130	
16	CO	130	

Continued on next page...

*Continued from previous page...*

Mol	Chain	Length	Quality of chain
17	AP	145	
17	CP	145	
18	AQ	108	
18	CQ	108	
19	AR	67	
19	CR	67	
20	AS	56	
20	CS	56	
21	AT	319	
21	CT	319	
22	Aa	20	
22	Bo	20	
22	Ca	20	
23	Ab	105	
23	Cb	105	
24	Ac	93	
24	Cc	93	
25	Ad	35	
25	Cd	35	
26	Ae	21	
26	Bj	21	
26	Dj	21	
27	Af	11	
28	Ah	41	
28	Ch	41	





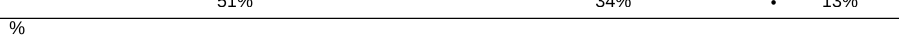




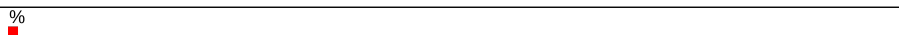
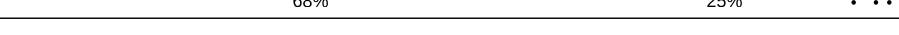










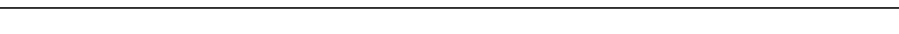
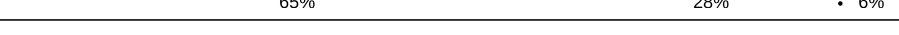


*Continued on next page...*

Continued from previous page...

Mol	Chain	Length	Quality of chain
29	B1	3396	
29	D1	3396	
30	B2	121	
30	D2	121	
31	B3	158	
31	D3	158	
32	BA	217	
32	DA	217	
33	BB	254	
33	DB	254	
34	BC	387	
34	DC	387	
35	BD	362	
35	DD	362	
36	BE	297	
36	DE	297	
37	BF	176	
37	DF	176	
38	BG	244	
38	DG	244	
39	BH	256	
39	DH	256	
40	BI	191	
40	DI	191	
41	BJ	221	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
41	DJ	221	
42	BK	174	
42	DK	174	
43	BN	138	
43	DN	138	
44	BO	204	
44	DO	204	
45	BP	199	
45	DP	199	
46	BQ	184	
46	DQ	184	
47	BR	186	
47	DR	186	
48	BS	189	
48	DS	189	
49	BT	160	
49	DT	160	
50	BU	137	
50	DU	137	
51	BV	155	
51	DV	155	
52	BW	142	
52	DW	142	
53	BX	127	
53	DX	127	








Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
54	BY	149	
54	DY	149	
55	BZ	105	
55	DZ	105	
56	Ba	113	
56	Da	113	
57	Bb	130	
57	Db	130	
58	Bc	120	
58	Dc	120	
59	Bd	88	
59	Dd	88	
60	Be	51	
60	De	51	
61	Bf	106	
61	Df	106	
62	Bg	92	
62	Dg	92	
63	Bh	44	
63	Dh	44	
64	Bi	12	
64	Di	12	
65	Bk	16	
65	Dk	16	
66	Bl	19	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
67	Bm	9	 100%
68	Bn	27	 100%
69	Bp	8	 100%
70	Bq	17	 100%
71	Br	23	 100%
72	DL	165	 50% 31% 16%
73	DM	312	 26% 15% 58%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	A1	1930	-	-	-	X
74	OHX	A1	1983	-	-	-	X
74	OHX	B1	3548	-	-	-	X
74	OHX	B1	3571	-	-	-	X
74	OHX	B1	3602	-	-	-	X
74	OHX	D1	3573	-	-	-	X
74	OHX	D1	3586	-	-	-	X
74	OHX	D1	3593	-	-	-	X
74	OHX	D1	3605	-	-	-	X
74	OHX	D3	211	-	-	-	X



## 2 Entry composition

There are 74 unique types of molecules in this entry. The entry contains 309610 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A1	1789	Total	C	N	O	P	0	0	0
			38107	17037	6732	12549	1789			
1	C1	1789	Total	C	N	O	P	0	0	0
			38107	17037	6732	12549	1789			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	AA	220	Total	C	N	O	0	0	0
			1090	650	220	220			
2	CA	220	Total	C	N	O	0	0	0
			1090	650	220	220			

- Molecule 3 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	AB	219	Total	C	N	O	0	0	0
			1074	636	219	219			
3	CB	219	Total	C	N	O	0	0	0
			1074	636	219	219			

- Molecule 4 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	AC	189	Total	C	N	O	0	0	0
			928	550	189	189			
4	CC	189	Total	C	N	O	0	0	0
			928	550	189	189			

- Molecule 5 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	AD	169	Total	C	N	O	0	0	0
			836	498	169	169			
5	CD	169	Total	C	N	O	0	0	0
			836	498	169	169			

- Molecule 6 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
6	AE	157	Total	C	N	O	0	0	0
			777	463	157	157			
6	CE	157	Total	C	N	O	0	0	0
			777	463	157	157			

- Molecule 7 is a protein called 40S ribosomal protein S11.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
7	AF	77	Total	C	N	O	0	0	0
			382	228	77	77			
7	CF	77	Total	C	N	O	0	0	0
			382	228	77	77			

- Molecule 8 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
8	AG	117	Total	C	N	O	0	0	0
			580	346	117	117			
8	CG	117	Total	C	N	O	0	0	0
			580	346	117	117			

- Molecule 9 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AH	128	Total	C	N	O	0	0	0
			627	371	128	128			
9	CH	128	Total	C	N	O	0	0	0
			627	371	128	128			

- Molecule 10 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	AI	121	Total	C	N	O	0	0	0
			596	354	121	121			

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	CI	121	Total	C	N	O	0	0	0
			596	354	121	121			

- Molecule 11 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
11	AJ	134	Total	C	N	O	0	0	0
			658	390	134	134			
11	CJ	134	Total	C	N	O	0	0	0
			658	390	134	134			

- Molecule 12 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
12	AK	67	Total	C	N	O	0	0	0
			332	198	67	67			
12	CK	67	Total	C	N	O	0	0	0
			332	198	67	67			

- Molecule 13 is a protein called 40S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	AL	120	Total	C	N	O	0	0	0
			591	351	120	120			
13	CL	120	Total	C	N	O	0	0	0
			591	351	120	120			

- Molecule 14 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	AM	106	Total	C	N	O	0	0	0
			521	309	106	106			
14	CM	106	Total	C	N	O	0	0	0
			521	309	106	106			

- Molecule 15 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	AN	111	Total	C	N	O	0	0	0
			551	329	111	111			
15	CN	111	Total	C	N	O	0	0	0
			551	329	111	111			

- Molecule 16 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
16	AO	127	Total	C	N	O	0	0	0
			622	368	127	127			
16	CO	127	Total	C	N	O	0	0	0
			622	368	127	127			

- Molecule 17 is a protein called 40S ribosomal protein S23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	AP	116	Total	C	N	O	0	0	0
			566	334	116	116			
17	CP	116	Total	C	N	O	0	0	0
			566	334	116	116			

- Molecule 18 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AQ	67	Total	C	N	O	0	0	0
			332	198	67	67			
18	CQ	63	Total	C	N	O	0	0	0
			312	186	63	63			

- Molecule 19 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
19	AR	47	Total	C	N	O	0	0	0
			230	136	47	47			
19	CR	47	Total	C	N	O	0	0	0
			230	136	47	47			

- Molecule 20 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	AS	39	Total	C	N	O	0	0	0
			190	112	39	39			
20	CS	39	Total	C	N	O	0	0	0
			190	112	39	39			

- Molecule 21 is a protein called Guanine nucleotide-binding protein subunit beta-like protein; RACK-1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AT	313	Total	C	N	O	0	0	0
			1543	917	313	313			
21	CT	313	Total	C	N	O	0	0	0
			1543	917	313	313			

- Molecule 22 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
22	Aa	20	Total	C	N	O	0	0	0
			100	60	20	20			
22	Bo	20	Total	C	N	O	0	0	0
			100	60	20	20			
22	Ca	20	Total	C	N	O	0	0	0
			100	60	20	20			

- Molecule 23 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	Ab	105	Total	C	N	O	0	0	0
			525	315	105	105			
23	Cb	105	Total	C	N	O	0	0	0
			525	315	105	105			

- Molecule 24 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
24	Ac	93	Total	C	N	O	0	0	0
			465	279	93	93			
24	Cc	93	Total	C	N	O	0	0	0
			465	279	93	93			

- Molecule 25 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
25	Ad	35	Total	C	N	O	0	0	0
			175	105	35	35			
25	Cd	35	Total	C	N	O	0	0	0
			175	105	35	35			

- Molecule 26 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	Ae	21	Total	C	N	O	0	0	0
			105	63	21	21			
26	Bj	21	Total	C	N	O	0	0	0
			105	63	21	21			
26	Dj	21	Total	C	N	O	0	0	0
			105	63	21	21			

- Molecule 27 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	Af	11	Total	C	N	O	0	0	0
			55	33	11	11			

- Molecule 28 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
28	Ah	41	Total	C	N	O	0	0	0
			205	123	41	41			
28	Ch	41	Total	C	N	O	0	0	0
			205	123	41	41			

- Molecule 29 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B1	3206	Total	C	N	O	P	0	0	0
			68577	30632	12365	22374	3206			
29	D1	3206	Total	C	N	O	P	0	0	0
			68577	30632	12365	22374	3206			

- Molecule 30 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B2	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
30	D2	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 31 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B3	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D3	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 32 is a protein called 60S ribosomal protein L1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
32	BA	213	Total	C	N	O	0	0	0
			1055	629	213	213			
32	DA	213	Total	C	N	O	0	0	0
			1055	629	213	213			

- Molecule 33 is a protein called 60S ribosomal protein L2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
33	BB	234	Total	C	N	O	0	0	0
			1106	638	234	234			
33	DB	234	Total	C	N	O	0	0	0
			1106	638	234	234			

- Molecule 34 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
34	BC	364	Total	C	N	O	0	0	0
			1791	1063	364	364			
34	DC	364	Total	C	N	O	0	0	0
			1791	1063	364	364			

- Molecule 35 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	BD	268	Total	C	N	O	0	0	0
			1312	776	268	268			
35	DD	268	Total	C	N	O	0	0	0
			1312	776	268	268			

- Molecule 36 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	BE	287	Total	C	N	O	0	0	0
			1412	838	287	287			
36	DE	287	Total	C	N	O	0	0	0
			1412	838	287	287			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BE	112	ARG	LYS	CONFLICT	UNP P26321
DE	112	ARG	LYS	CONFLICT	UNP P26321

- Molecule 37 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
37	BF	176	Total	C	N	O	0	0	0
			873	521	176	176			
37	DF	176	Total	C	N	O	0	0	0
			873	521	176	176			

- Molecule 38 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
38	BG	215	Total	C	N	O	0	0	0
			1061	631	215	215			
38	DG	215	Total	C	N	O	0	0	0
			1061	631	215	215			

- Molecule 39 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	BH	173	Total	C	N	O	0	0	0
			856	510	173	173			
39	DH	173	Total	C	N	O	0	0	0
			856	510	173	173			

- Molecule 40 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	BI	191	Total	C	N	O	0	0	0
			942	560	191	191			
40	DI	191	Total	C	N	O	0	0	0
			942	560	191	191			

- Molecule 41 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	BJ	208	Total	C	N	O	0	0	0
			1027	611	208	208			

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	DJ	208	Total	C	N	O	0	0	0
			1027	611	208	208			

- Molecule 42 is a protein called 60S ribosomal protein L11-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	BK	165	Total	C	N	O	0	0	0
			810	480	165	165			
42	DK	165	Total	C	N	O	0	0	0
			810	480	165	165			

- Molecule 43 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	BN	120	Total	C	N	O	0	0	0
			593	353	120	120			
43	DN	120	Total	C	N	O	0	0	0
			593	353	120	120			

- Molecule 44 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BO	187	Total	C	N	O	0	0	0
			923	549	187	187			
44	DO	187	Total	C	N	O	0	0	0
			923	549	187	187			

- Molecule 45 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	BP	196	Total	C	N	O	0	0	0
			967	575	196	196			
45	DP	196	Total	C	N	O	0	0	0
			967	575	196	196			

- Molecule 46 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
46	BQ	154	Total	C	N	O	0	0	0
			761	453	154	154			
46	DQ	154	Total	C	N	O	0	0	0
			761	453	154	154			

- Molecule 47 is a protein called 60S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
47	BR	143	Total	C	N	O	0	0	0
			706	420	143	143			
47	DR	143	Total	C	N	O	0	0	0
			706	420	143	143			

- Molecule 48 is a protein called 60S ribosomal protein L19.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	BS	188	Total	C	N	O	0	0	0
			931	555	188	188			
48	DS	188	Total	C	N	O	0	0	0
			931	555	188	188			

- Molecule 49 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	BT	119	Total	C	N	O	0	0	0
			586	348	119	119			
49	DT	119	Total	C	N	O	0	0	0
			586	348	119	119			

- Molecule 50 is a protein called 60S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
50	BU	129	Total	C	N	O	0	0	0
			631	373	129	129			
50	DU	129	Total	C	N	O	0	0	0
			631	373	129	129			

- Molecule 51 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	BV	59	Total	C	N	O	0	0	0
			291	173	59	59			
51	DV	59	Total	C	N	O	0	0	0
			291	173	59	59			

- Molecule 52 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	BW	94	Total	C	N	O	0	0	0
			468	280	94	94			
52	DW	94	Total	C	N	O	0	0	0
			468	280	94	94			

- Molecule 53 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	BX	107	Total	C	N	O	0	0	0
			530	316	107	107			
53	DX	107	Total	C	N	O	0	0	0
			530	316	107	107			

- Molecule 54 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
54	BY	149	Total	C	N	O	0	0	0
			727	429	149	149			
54	DY	149	Total	C	N	O	0	0	0
			727	429	149	149			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BY	38	GLU	GLN	CONFLICT	UNP P02406
DY	38	GLU	GLN	CONFLICT	UNP P02406

- Molecule 55 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
55	BZ	98	Total	C	N	O	0	0	0
			481	285	98	98			
55	DZ	98	Total	C	N	O	0	0	0
			481	285	98	98			

- Molecule 56 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
56	Ba	86	Total	C	N	O	0	0	0
			425	253	86	86			
56	Da	86	Total	C	N	O	0	0	0
			425	253	86	86			

- Molecule 57 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
57	Bb	125	Total	C	N	O	0	0	0
			618	368	125	125			
57	Db	125	Total	C	N	O	0	0	0
			618	368	125	125			

- Molecule 58 is a protein called 60S ribosomal protein L35.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
58	Bc	68	Total	C	N	O	0	0	0
			339	203	68	68			
58	Dc	68	Total	C	N	O	0	0	0
			339	203	68	68			

- Molecule 59 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
59	Bd	72	Total	C	N	O	0	0	0
			352	208	72	72			
59	Dd	72	Total	C	N	O	0	0	0
			352	208	72	72			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
60	Be	48	Total	C	N	O	0	0	0
			240	144	48	48			
60	De	48	Total	C	N	O	0	0	0
			240	144	48	48			

- Molecule 61 is a protein called 60S ribosomal protein L42.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
61	Bf	95	Total	C	N	O	0	0	0
			467	277	95	95			
61	Df	95	Total	C	N	O	0	0	0
			467	277	95	95			

- Molecule 62 is a protein called 60S ribosomal protein L43.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
62	Bg	83	Total	C	N	O	0	0	0
			407	241	83	83			
62	Dg	83	Total	C	N	O	0	0	0
			407	241	83	83			

- Molecule 63 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
63	Bh	44	Total	C	N	O	0	0	0
			220	132	44	44			
63	Dh	44	Total	C	N	O	0	0	0
			220	132	44	44			

- Molecule 64 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
64	Bi	12	Total	C	N	O	0	0	0
			60	36	12	12			
64	Di	12	Total	C	N	O	0	0	0
			60	36	12	12			

- Molecule 65 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
65	Bk	16	Total	C	N	O	0	0	0
			80	48	16	16			
65	Dk	16	Total	C	N	O	0	0	0
			80	48	16	16			

- Molecule 66 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
66	Bl	19	Total	C	N	O	0	0	0
			95	57	19	19			

- Molecule 67 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
67	Bm	9	Total	C	N	O	0	0	0
			45	27	9	9			

- Molecule 68 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
68	Bn	27	Total	C	N	O	0	0	0
			135	81	27	27			

- Molecule 69 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
69	Bp	8	Total	C	N	O	0	0	0
			40	24	8	8			

- Molecule 70 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
70	Bq	17	Total	C	N	O	0	0	0
			85	51	17	17			

- Molecule 71 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
71	Br	23	Total	C	N	O	0	0	0
			115	69	23	23			

- Molecule 72 is a protein called 60S ribosomal protein L12.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
72	DL	138	Total	C	N	O	0	0	0
			679	403	138	138			

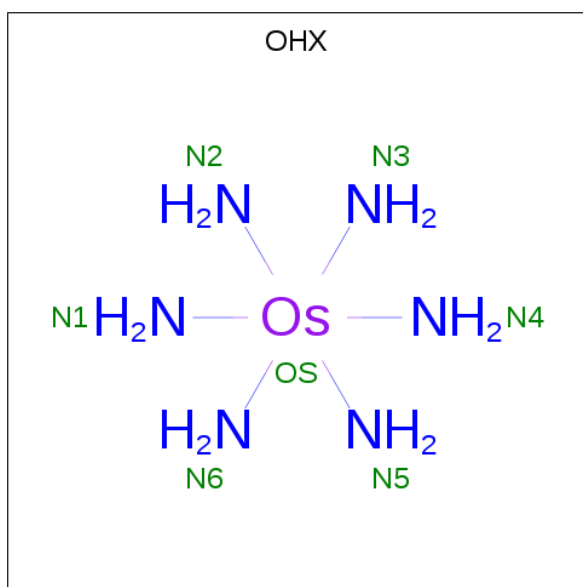
- Molecule 73 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
73	DM	130	Total	C	N	O	0	0	0
			641	381	130	130			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
DM	83	TYR	ASN	CONFLICT	UNP P05317

- Molecule 74 is osmium (III) hexamine (three-letter code: OHX) (formula: H<sub>12</sub>N<sub>6</sub>Os).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	AL	1	Total	N	Os	0	0
			7	6	1		
74	AS	1	Total	N	Os	0	0
			7	6	1		
74	AT	1	Total	N	Os	0	0
			7	6	1		
74	Ac	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	BC	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	BO	1	Total	N	Os	0	0
			7	6	1		
74	BT	1	Total	N	Os	0	0
			7	6	1		
74	Bd	1	Total	N	Os	0	0
			7	6	1		
74	Bd	1	Total	N	Os	0	0
			7	6	1		
74	Bg	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	CI	1	Total	N	Os	0	0
			7	6	1		
74	CS	1	Total	N	Os	0	0
			7	6	1		
74	CS	1	Total	N	Os	0	0
			7	6	1		
74	CT	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	DC	1	Total	N	Os	0	0
			7	6	1		

*Continued on next page...*



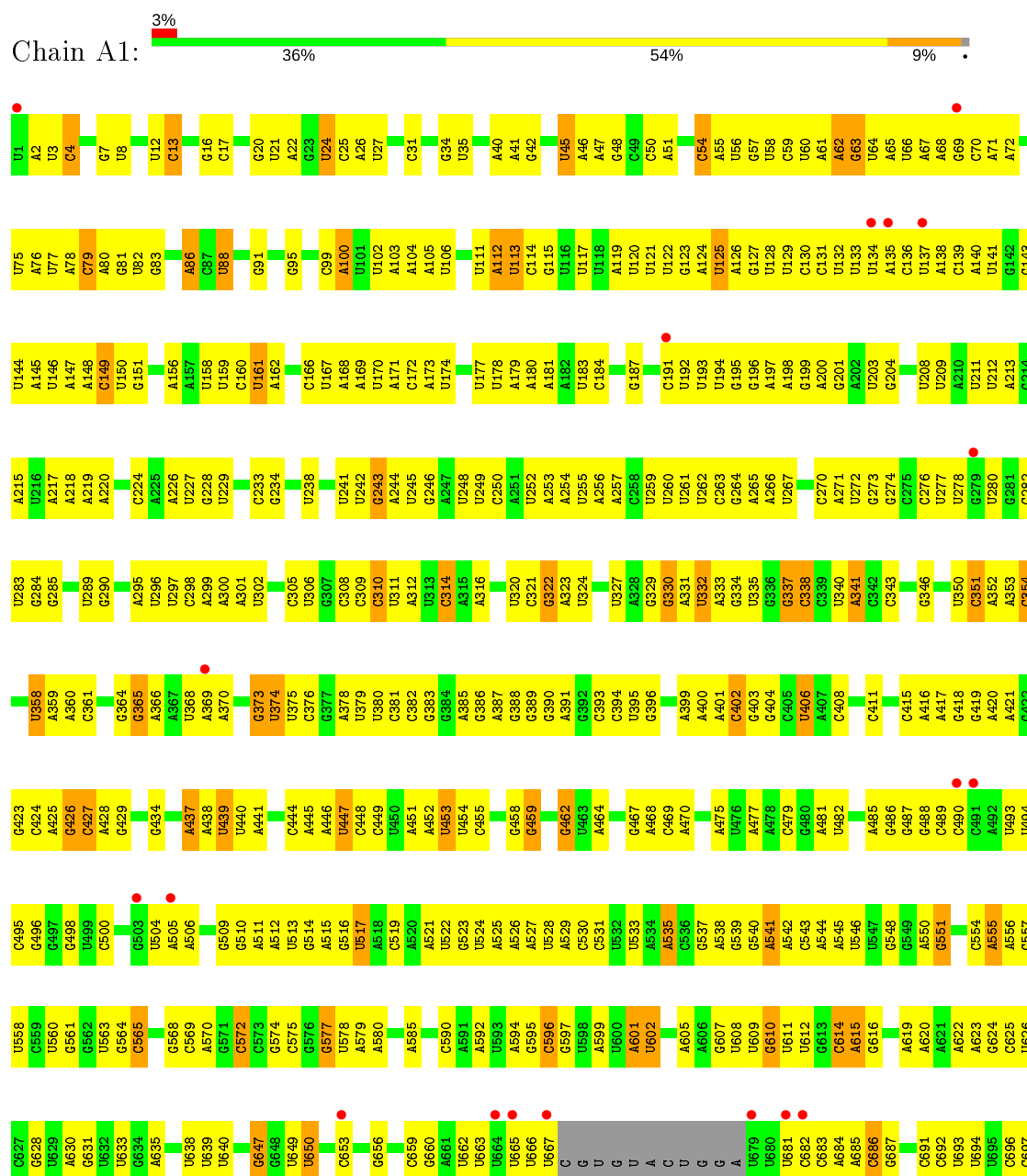
*Continued from previous page...*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	DE	1	Total	N	Os	0	0
			7	6	1		
74	DJ	1	Total	N	Os	0	0
			7	6	1		
74	DO	1	Total	N	Os	0	0
			7	6	1		
74	DO	1	Total	N	Os	0	0
			7	6	1		
74	DT	1	Total	N	Os	0	0
			7	6	1		
74	Dd	1	Total	N	Os	0	0
			7	6	1		
74	Dd	1	Total	N	Os	0	0
			7	6	1		
74	Dg	1	Total	N	Os	0	0
			7	6	1		

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

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron 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 dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). 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: 18S ribosomal RNA

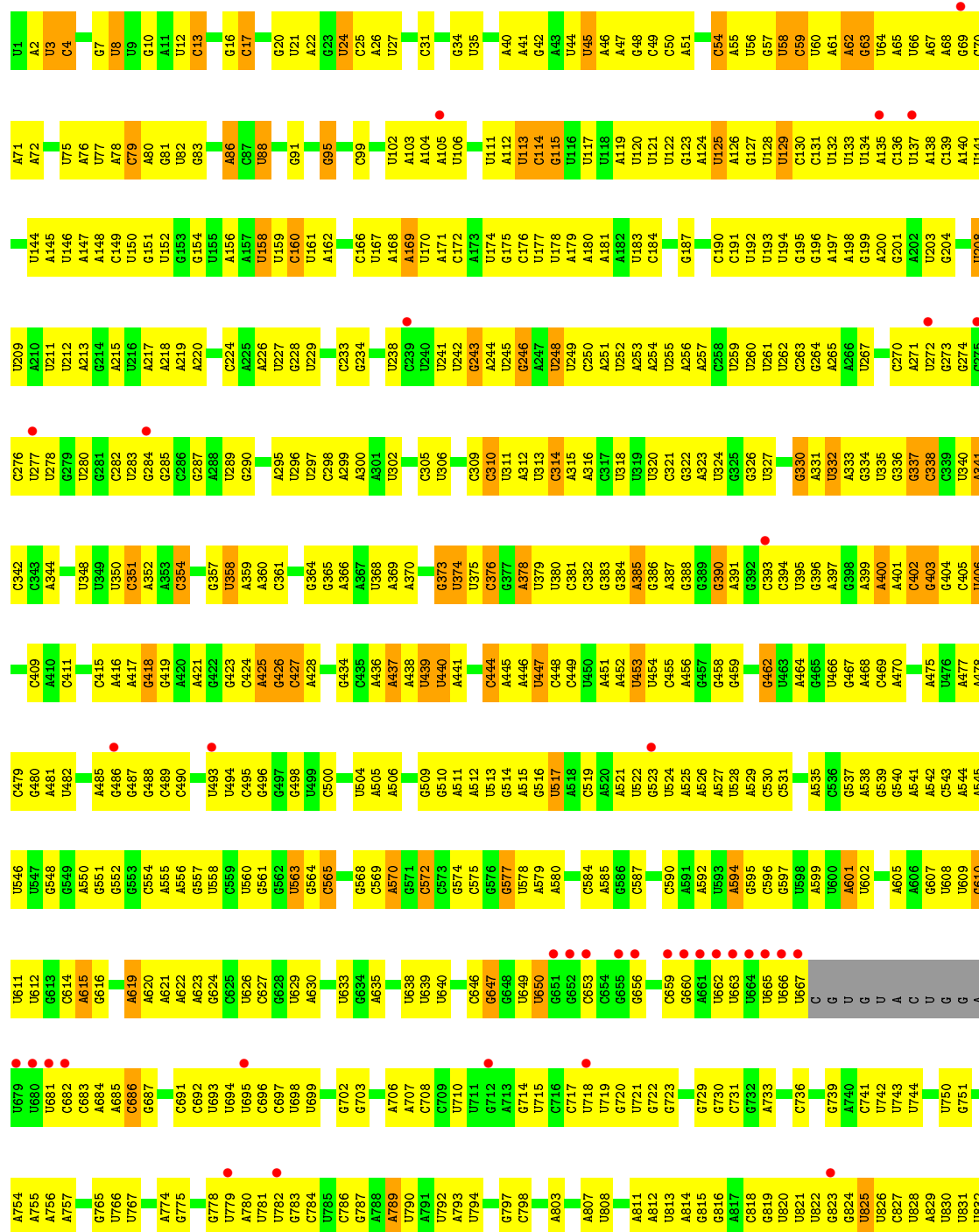


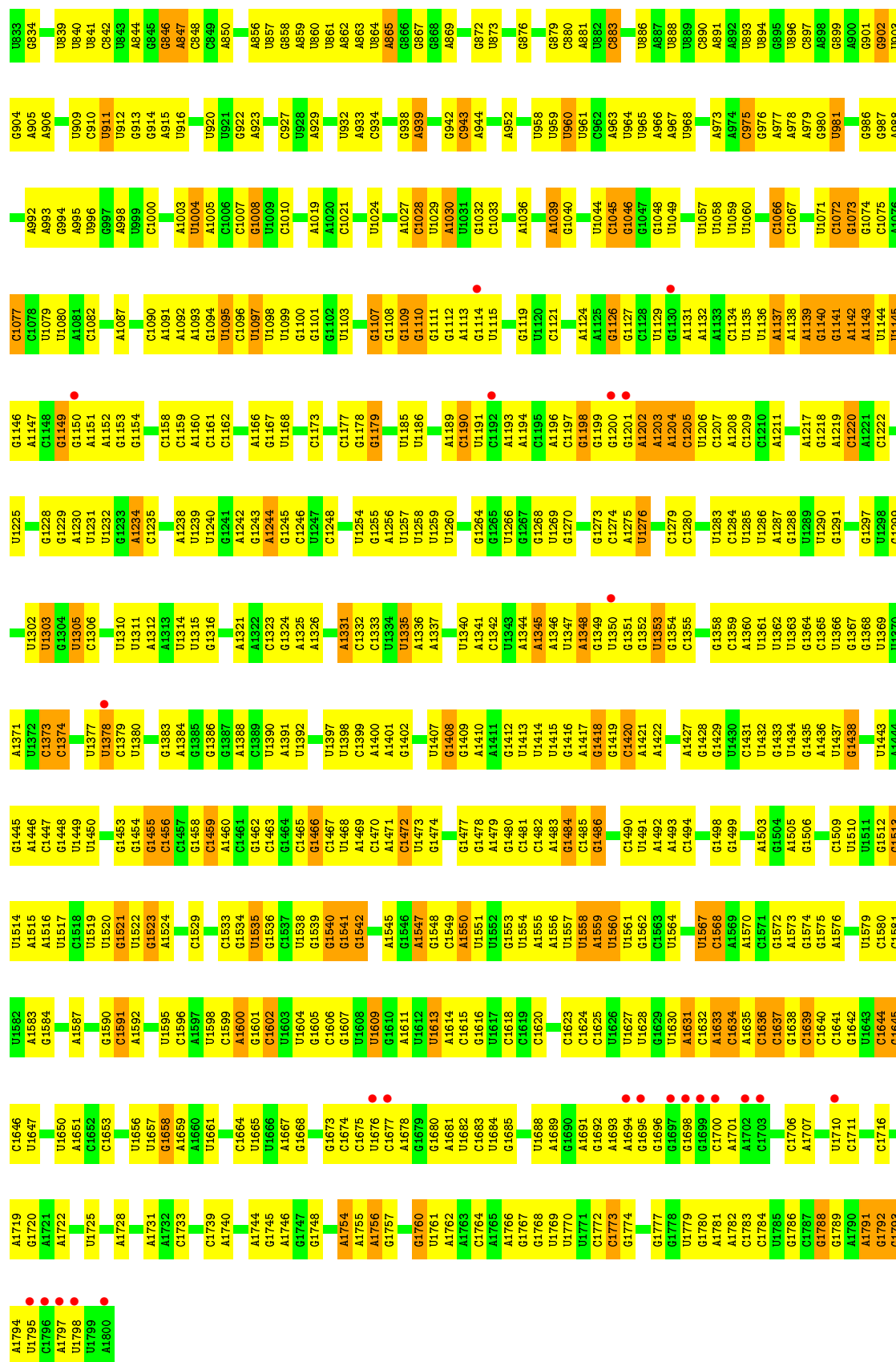
U698	U699	U700	U701	U702	U703	U704	U705	U706	U707	U708	U709	U710	U711	U712	U713	U714	U715	U716	U717	U718	U719	U720	U721	U722	U723	U724	U725	U726	U727	U728	U729	U730	U731	U732	U733	U734	U735	U736	U737	U738	U739	U740	U741	U742	U743	U744	U745	U746	U747	U748	U749	U750	U751	U752	U753	U754	U755	U756	U757	U758	U759	U760	U761	U762	U763	U764	U765	U766	U767	U768	U769	U770	U771	U772	U773	U774	U775	U776	U777	U778	U779	U780	U781	U782	U783	U784	U785	U786	U787	U788	U789	U790	U791	U792	U793	U794	U795	U796	U797	U798	U799	U800	U801	U802	U803	U804	U805	U806	U807	U808	U809	U810	U811	U812	U813	U814	U815	U816	U817	U818	U819	U820	U821	U822	U823	U824	U825	U826	U827	U828	U829	U830	U831	U832	U833	U834	U835	U836	U837	U838	U839	U840	U841	U842	U843	U844	U845	U846	U847	U848	U849	U850	U851	U852	U853	U854	U855	U856	U857	U858	U859	U860	U861	U862	U863	U864	U865	U866	U867	U868	U869	U870	U871	U872	U873	U874	U875	U876	U877	U878	U879	U880	U881	U882	U883	U884	U885	U886	U887	U888	U889	U890	U891	U892	U893	U894	U895	U896	U897	U898	U899	U900	U901	U902	U903	U904	U905	U906	U907	U908	U909	U910	U911	U912	U913	U914	U915	U916	U917	U918	U919	U920	U921	U922	U923	U924	U925	U926	U927	U928	U929	U930	U931	U932	U933	U934	U935	U936	U937	U938	U939	U940	U941	U942	U943	U944	U945	U946	U947	U948	U949	U950	U951	U952	U953	U954	U955	U956	U957	U958	U959	U960	U961	U962	U963	U964	U965	U966	U967	U968	U969	U970	U971	U972	U973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073	U1074	U1075	U1076	U1077	U1078	U1079	U1080	U1081	U1082	U1083	U1084	U1085	U1086	U1087	U1088	U1089	U1090	U1091	U1092	U1093	U1094	U1095	U1096	U1097	U1098	U1099	U1100	U1101	U1102	U1103	U1104	U1105	U1106	U1107	U1108	U1109	U1110	U1111	U1112	U1113	U1114	U1115	U1116	U1117	U1118	U1119	U1120	U1121	U1122	U1123	U1124	U1125	U1126	U1127	U1128	U1129	U1130	U1131	U1132	U1133	U1134	U1135	U1136	U1137	U1138	U1139	U1140	U1141	U1142	U1143	U1144	U1145	U1146	U1147	U1148	U1149	U1150	U1151	U1152	U1153	U1154	U1155	U1156	U1157	U1158	U1159	U1160	U1161	U1162	U1163	U1164	U1165	U1166	U1167	U1168	U1169	U1170	U1171	U1172	U1173	U1174	U1175	U1176	U1177	U1178	U1179	U1180	U1181	U1182	U1183	U1184	U1185	U1186	U1187	U1188	U1189	U1190	U1191	U1192	U1193	U1194	U1195	U1196	U1197	U1198	U1199	U1200	U1201	U1202	U1203	U1204	U1205	U1206	U1207	U1208	U1209	U1210	U1211	U1212	U1213	U1214	U1215	U1216	U1217	U1218	U1219	U1220	U1221	U1222	U1223	U1224	U1225	U1226	U1227	U1228	U1229	U1230	U1231	U1232	U1233	U1234	U1235	U1236	U1237	U1238	U1239	U1240	U1241	U1242	U1243	U1244	U1245	U1246	U1247	U1248	U1249	U1250	U1251	U1252	U1253	U1254	U1255	U1256	U1257	U1258	U1259	U1260	U1261	U1262	U1263	U1264	U1265	U1266	U1267	U1268	U1269	U1270	U1271	U1272	U1273	U1274	U1275	U1276	U1277	U1278	U1279	U1280	U1281	U1282	U1283	U1284	U1285	U1286	U1287	U1288	U1289	U1290	U1291	U1292	U1293	U1294	U1295	U1296	U1297	U1298	U1299	U1300	U1301	U1302	U1303	U1304	U1305	U1306	U1307	U1308	U1309	U1310	U1311	U1312	U1313	U1314	U1315	U1316	U1317	U1318	U1319	U1320	U1321	U1322	U1323	U1324	U1325	U1326	U1327	U1328	U1329	U1330	U1331	U1332	U1333	U1334	U1335	U1336	U1337	U1338	U1339	U1340	U1341	U1342	U1343	U1344	U1345	U1346	U1347	U1348	U1349	U1350	U1351	U1352	U1353	U1354	U1355	U1356	U1357	U1358	U1359	U1360	U1361	U1362	U1363	U1364	U1365	U1366	U1367	U1368	U1369	U1370	U1371	U1372	U1373	U1374	U1375	U1376	U1377	U1378	U1379	U1380	U1381	U1382	U1383	U1384	U1385	U1386	U1387	U1388	U1389	U1390	U1391	U1392	U1393	U1394	U1395	U1396	U1397	U1398	U1399	U1400	U1401	U1402	U1403	U1404	U1405	U1406	U1407	U1408	U1409	U1410	U1411	U1412	U1413	U1414	U1415	U1416	U1417	U1418	U1419	U1420	U1421	U1422	U1423	U1424	U1425	U1426	U1427	U1428	U1429	U1430	U1431	U1432	U1433	U1434	U1435	U1436	U1437	U1438	U1439	U1440	U1441	U1442	U1443	U1444	U1445	U1446	U1447	U1448	U1449	U1450	U1451	U1452	U1453	U1454	U1455	U1456	U1457	U1458	U1459	U1460	U1461	U1462	U1463	U1464	U1465	U1466	U1467	U1468	U1469	U1470	U1471	U1472	U1473	U1474	U1475	U1476	U1477	U1478	U1479	U1480	U1481	U1482	U1483	U1484	U1485	U1486	U1487	U1488	U1489	U1490	U1491	U1492	U1493	U1494	U1495	U1496	U1497	U1498	U1499	U1500	U1501	U1502	U1503	U1504	U1505	U1506	U1507	U1508	U1509	U1510	U1511	U1512	U1513	U1514	U1515	U1516	U1517	U1518	U1519	U1520	U1521	U1522	U1523	U1524	U1525	U1526	U1527	U1528	U1529	U1530	U1531	U1532	U1533	U1534	U1535	U1536	U1537	U1538	U1539	U1540	U1541	U1542	U1543	U1544	U1545	U1546	U1547	U1548	U1549	U1550	U1551	U1552	U1553	U1554	U1555	U1556	U1557	U1558	U1559	U1560	U1561	U1562	U1563	U1564	U1565	U1566	U1567	U1568	U1569	U1570	U1571	U1572	U1573	U1574	U1575	U1576	U1577	U1578	U1579	U1580	U1581	U1582	U1583	U1584	U1585	U1586	U1587	U1588	U1589	U1590	U1591	U1592	U1593	U1594	U1595	U1596	U1597	U1598	U1599	U1600	U1601	U1602	U1603	U1604	U1605	U1606	U1607	U1608	U1609	U1610	U1611	U1612	U1613	U1614	U1615	U1616	U1617	U1618	U1619	U1620	U1621	U1622	U1623	U1624	U1625	U1626	U1627	U1628	U1629	U1630	U1631	U1632	U1633	U1634	U1635	U1636	U1637	U1638	U1639	U1640	U1641	U1642	U1643	U1644	U1645	U1646	U1647	U1648	U1649	U1650	U1651	U1652	U1653	U1654	U1655	U1656	U1657	U1658	U1659	U1660	U1661	U1662	U1663	U1664	U1665	U1666	U1667	U1668	U1669	U1670	U1671	U1672	U1673	U1674	U1675	U1676	U1677	U1678	U1679	U1680	U1681	U1682	U1683	U1684	U1685	U1686	U1687	U1688	U1689	U1690	U1691	U1692	U1693	U1694	U1695	U1696	U1697	U1698	U1699	U1700	U1701	U1702	U1703	U1704	U1705	U1706	U1707	U1708	U1709	U1710	U1711	U1712	U1713	U1714	U1715	U1716	U1717	U1718	U1719	U1720	U1721	U1722	U1723	U1724	U1725	U1726	U1727	U1728	U1729	U1730	U1731	U1732	U1733	U1734	U1735	U1736	U1737	U1738	U1739	U1740	U1741	U1742	U1743	U1744	U1745	U1746	U1747	U1748	U1749	U1750	U1751	U1752	U1753	U1754	U1755	U1756	U1757	U1758	U1759	U1760	U1761	U1762	U1763	U1764	U1765	U1766	U1767	U1768	U1769	U1770	U1771	U1772	U1773	U1774	U1775	U1776	U1777	U1778	U1779	U1780	U1781	U1782	U1783	U1784	U1785	U1786	U1787	U1788	U1789	U1790	U1791	U1792	U1793	U1794	U1795	U1796	U1797	U1798	U1799	U1800	U1801	U1802	U1803	U1804	U1805	U1806	U1807	U1808	U1809	U1810	U1811	U1812	U1813	U1814	U1815	U1816	U1817	U1818	U1819	U1820	U1821	U1822	U1823	U1824	U1825	U1826	U1827	U1828	U1829	U1830	U1831	U1832	U1833	U1834	U1835	U1836	U1837	U1838	U1839	U1840	U1841	U1842	U1843	U1844	U1845	U1846	U1847	U1848	U1849	U1850	U1851	U1852	U1853	U1854	U1855	U1856	U1857	U1858	U1859	U1860	U1861	U1862	U1863	U1864	U1865	U1866	U1867	U1868	U1869	U1870	U1871	U1872	U1873	U1874	U1875	U1876	U1877	U1878	U1879	U1880	U1881	U1882	U1883	U1884	U1885	U1886	U1887	U1888	U1889	U1890	U1891	U1892	U1893	U1894	U1895	U1896	U1897	U1898	U1899	U1900	U1901	U1902	U1903	U1904	U1905	U1906	U1907	U1908	U1909	U1910	U1911	U1912	U1913	U1914	U1915	U1916	U1917	U1918	U1919	U1920	U1921	U1922	U1923	U1924	U1925	U1926	U1927	U1928	U1929	U1930	U1931	U1932	U1933	U1934	U1935	U1936	U1937	U1938	U1939	U1940	U1941	U1942	U1943	U1944	U1945	U1946	U1947	U1948	U1949	U1950	U1951	U1952	U19
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-----



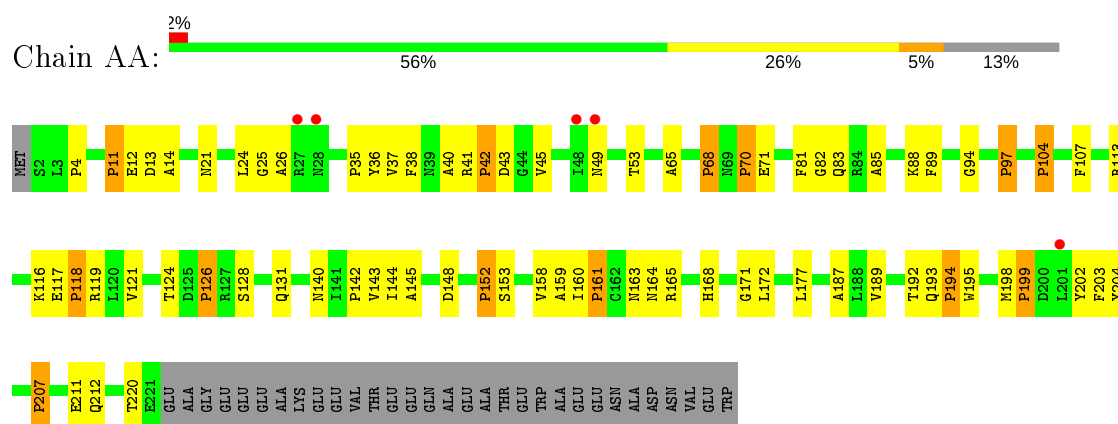
• Molecule 1: 18S ribosomal RNA

Chain C1: 3% 36% 54% 10%

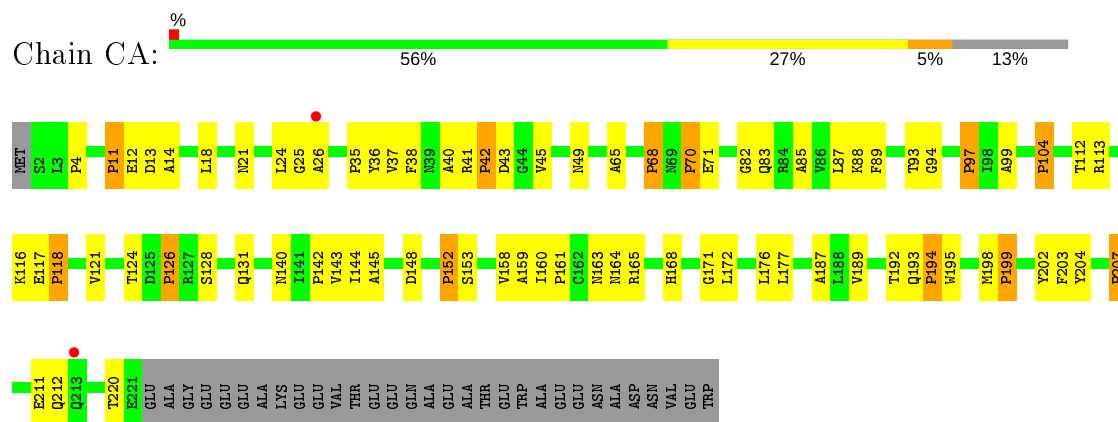




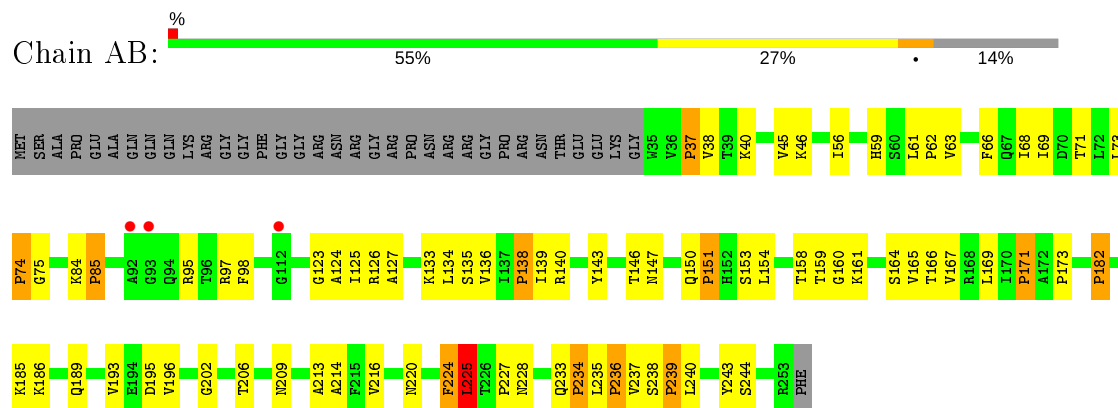
● Molecule 2: 40S ribosomal protein S0-A



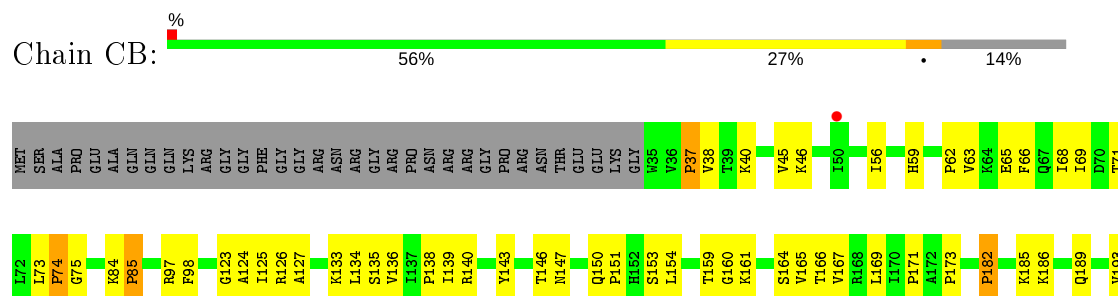
• Molecule 2: 40S ribosomal protein S0-A



• Molecule 3: 40S ribosomal protein S2

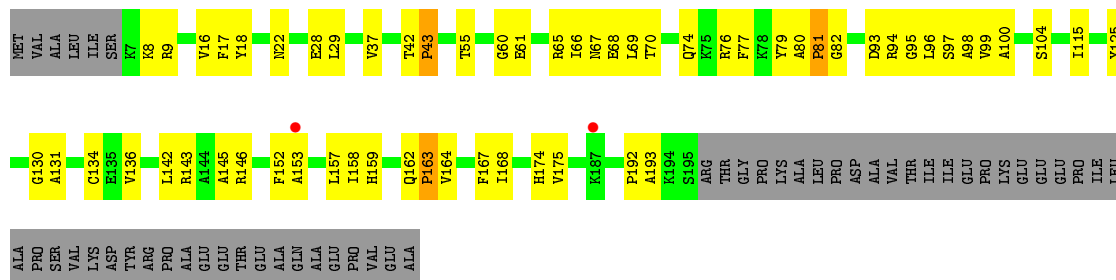


• Molecule 3: 40S ribosomal protein S2

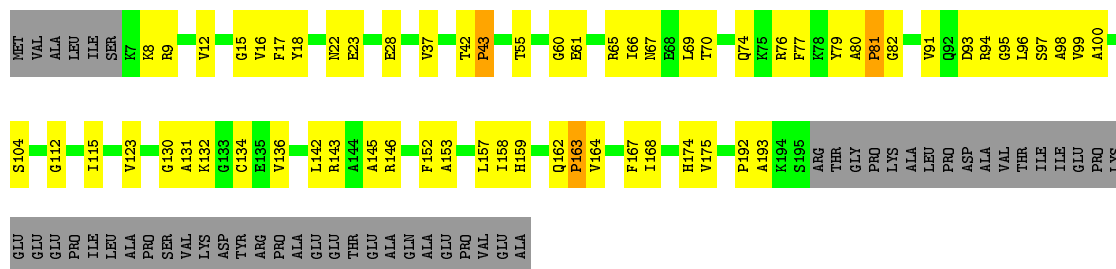




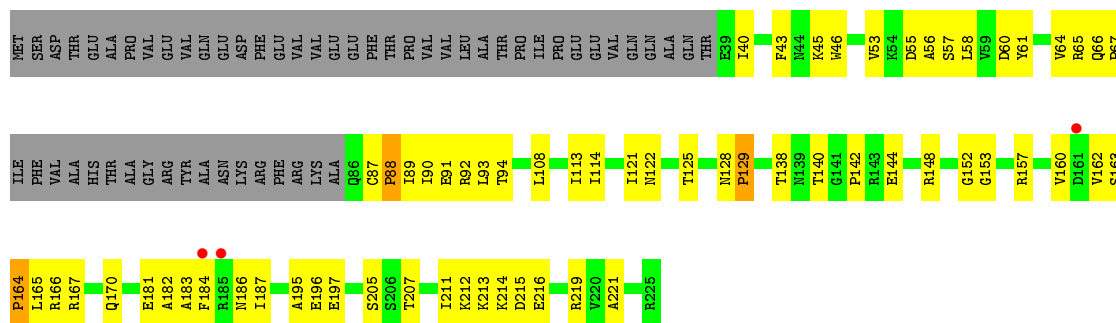
- Molecule 4: 40S ribosomal protein S3



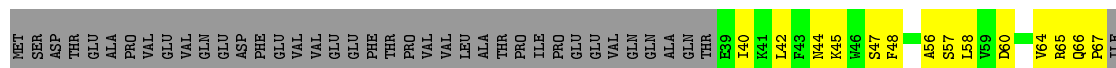
- Molecule 4: 40S ribosomal protein S3

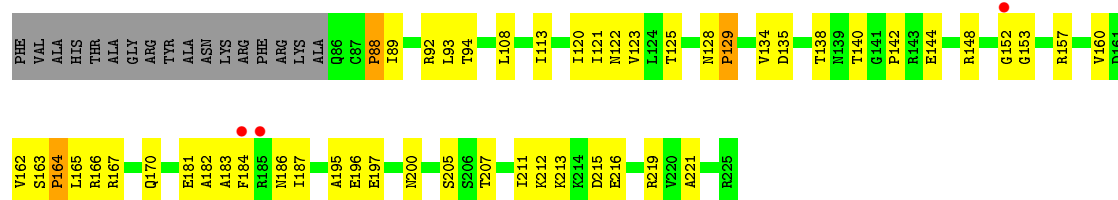


- Molecule 5: 40S ribosomal protein S5

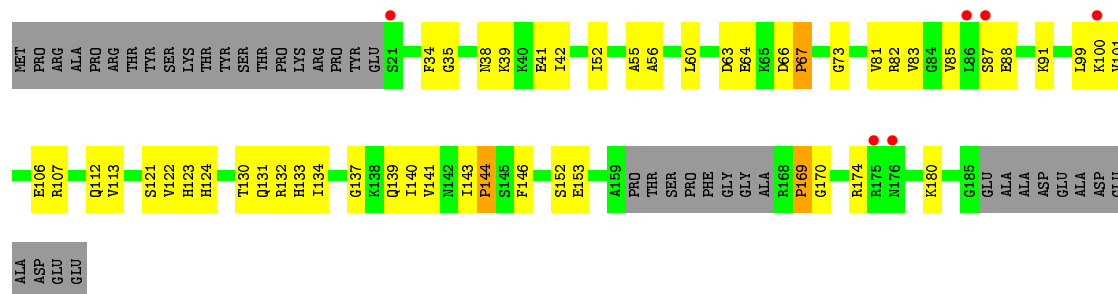


- Molecule 5: 40S ribosomal protein S5

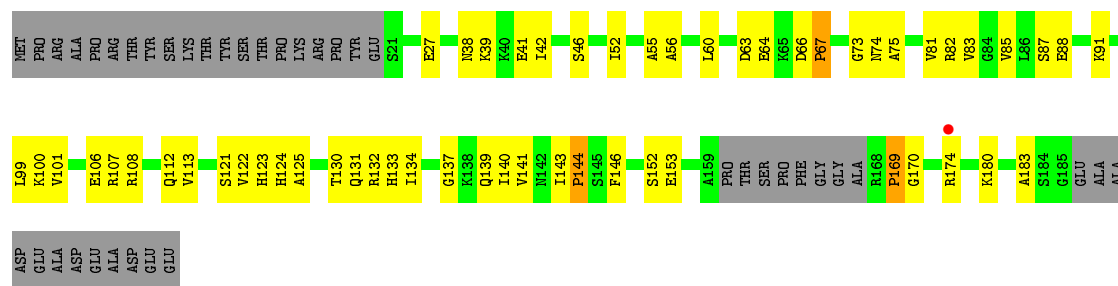




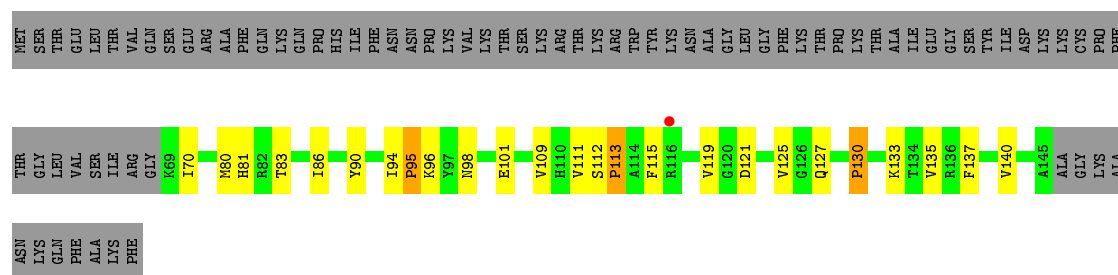
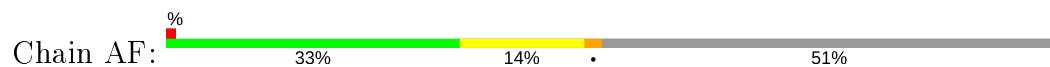
• Molecule 6: 40S ribosomal protein S9-A



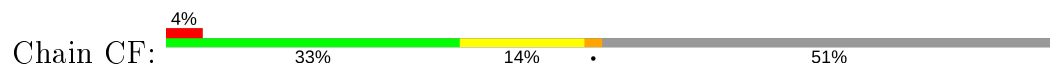
• Molecule 6: 40S ribosomal protein S9-A



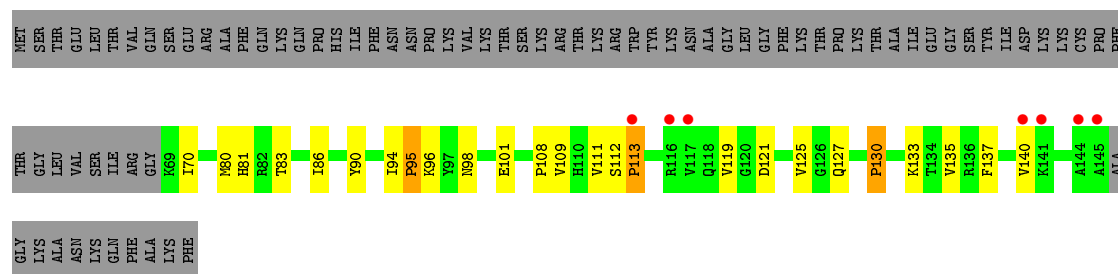
• Molecule 7: 40S ribosomal protein S11



• Molecule 7: 40S ribosomal protein S11

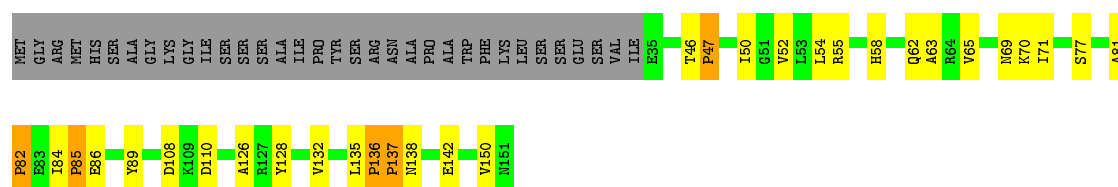






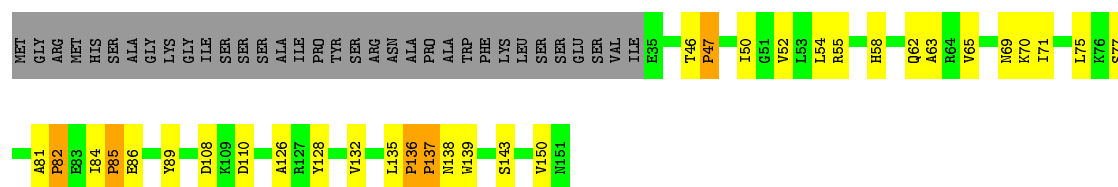
• Molecule 8: 40S ribosomal protein S13

Chain AG:



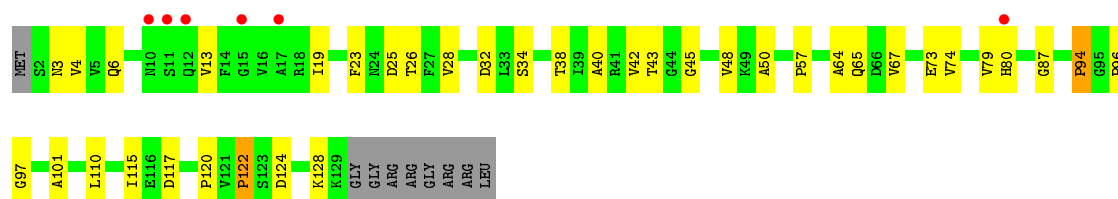
• Molecule 8: 40S ribosomal protein S13

Chain CG:



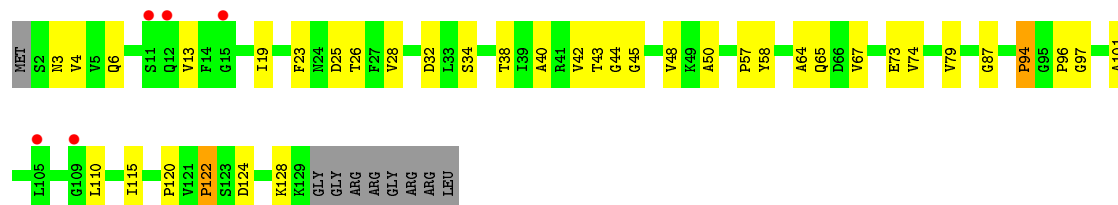
• Molecule 9: 40S ribosomal protein S14-A

Chain AH: 4% 66% 26% 7%

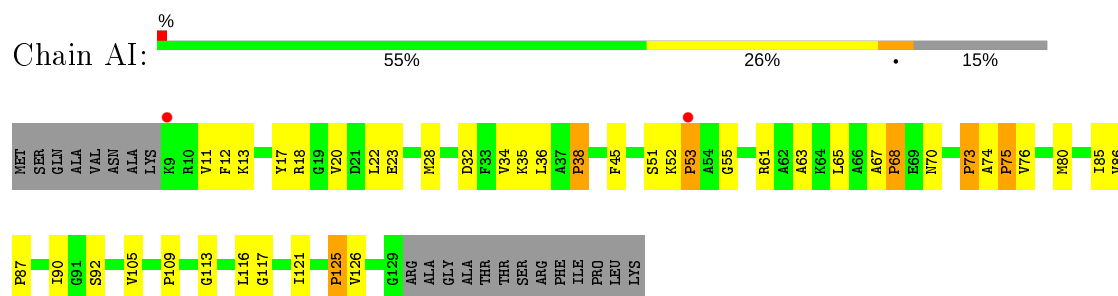


• Molecule 9: 40S ribosomal protein S14-A

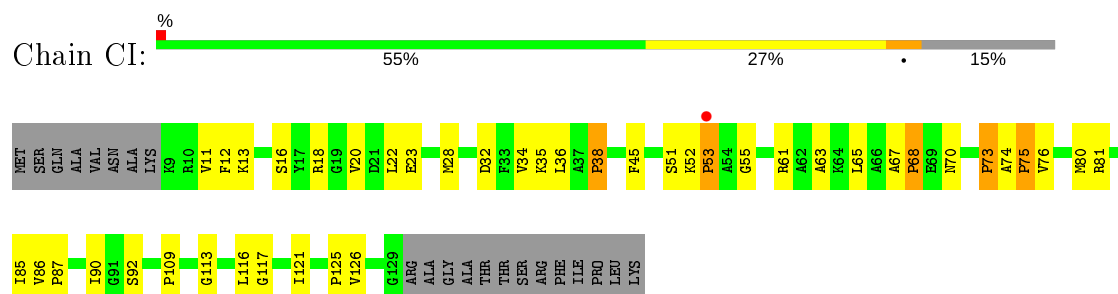
Chain CH: 4% 66% 26% 7%



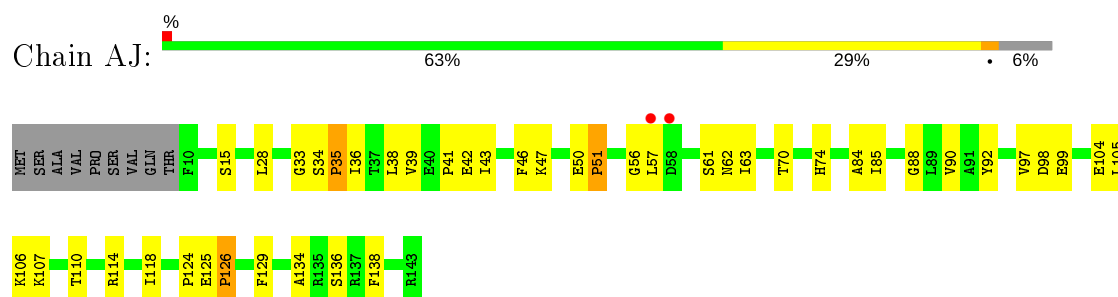
- Molecule 10: 40S ribosomal protein S15



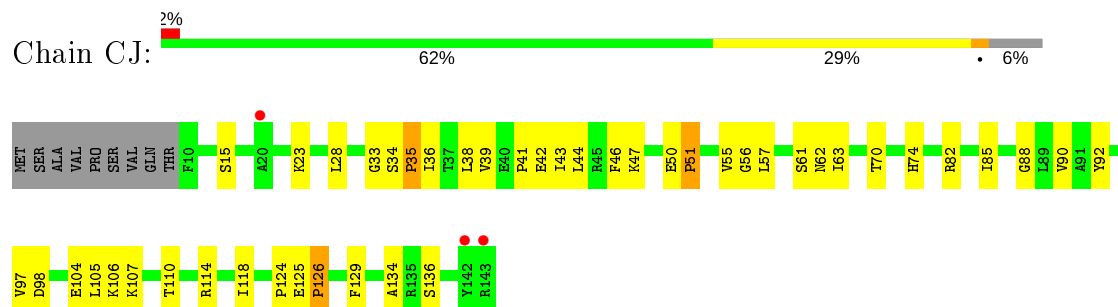
- Molecule 10: 40S ribosomal protein S15



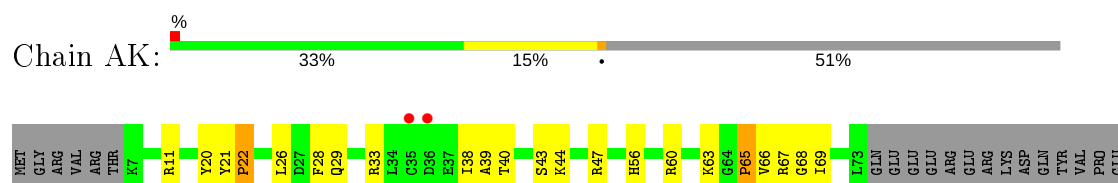
- Molecule 11: 40S ribosomal protein S16



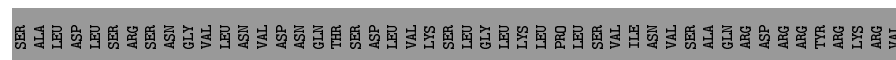
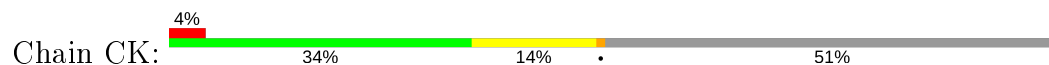
- Molecule 11: 40S ribosomal protein S16



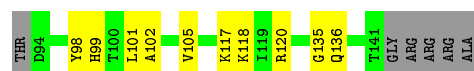
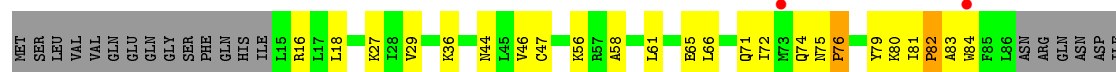
- Molecule 12: 40S ribosomal protein S17-A



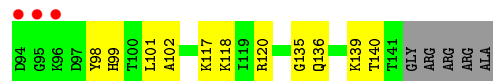
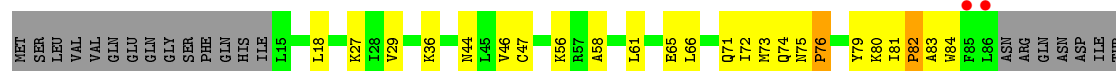
- Molecule 12: 40S ribosomal protein S17-A



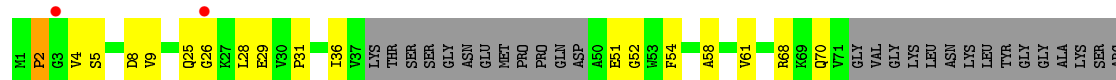
- Molecule 13: 40S ribosomal protein S18



- Molecule 13: 40S ribosomal protein S18

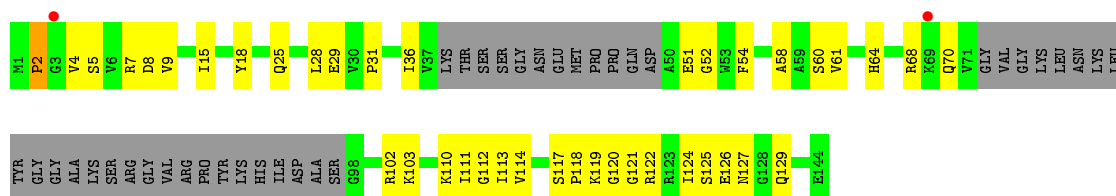


- Molecule 14: 40S ribosomal protein S19-A

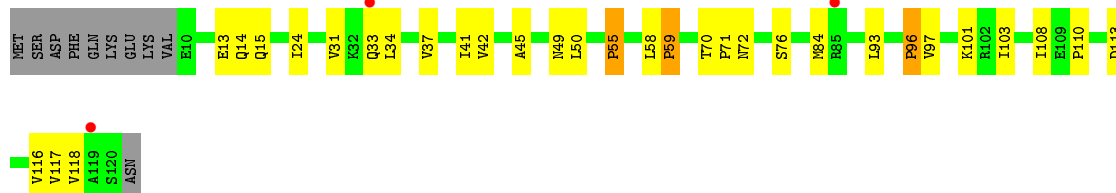


- Molecule 14: 40S ribosomal protein S19-A

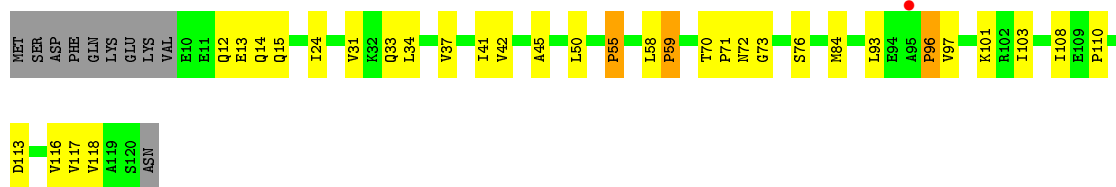




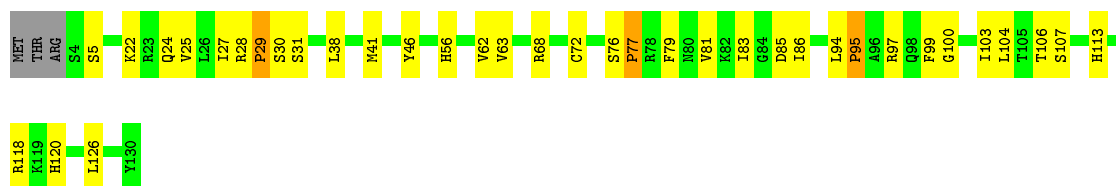
- Molecule 15: 40S ribosomal protein S20



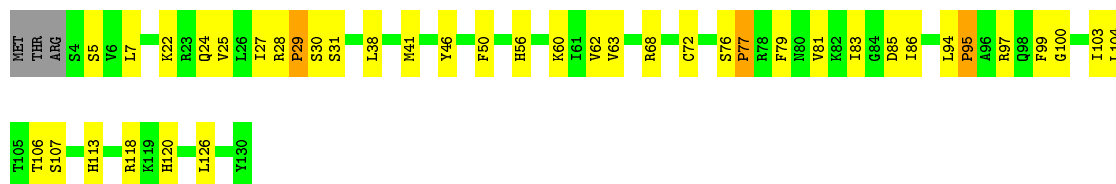
- Molecule 15: 40S ribosomal protein S20



- Molecule 16: 40S ribosomal protein S22-A

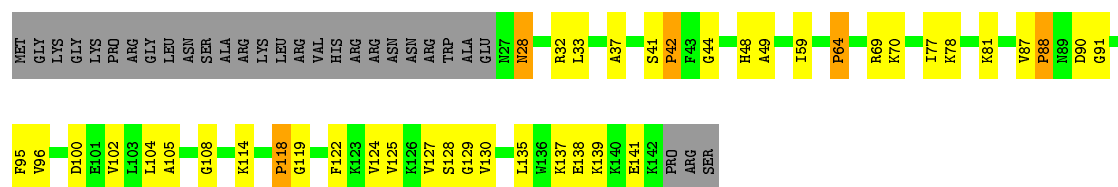


- Molecule 16: 40S ribosomal protein S22-A



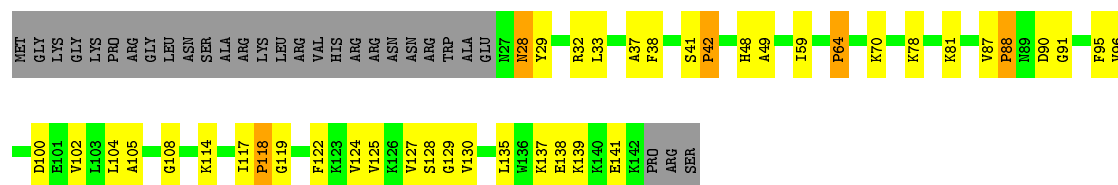
- Molecule 17: 40S ribosomal protein S23

Chain AP: 



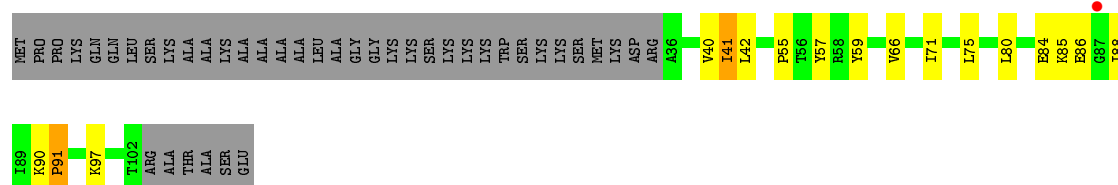
- Molecule 17: 40S ribosomal protein S23

Chain CP: 

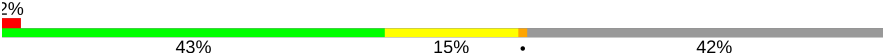


- Molecule 18: 40S ribosomal protein S25-A

Chain AQ: 



- Molecule 18: 40S ribosomal protein S25-A

Chain CQ: 

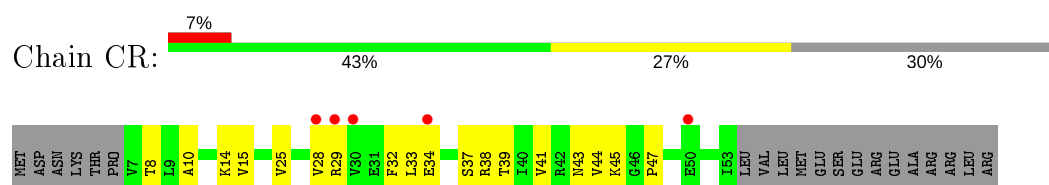


- Molecule 19: 40S ribosomal protein S28-A

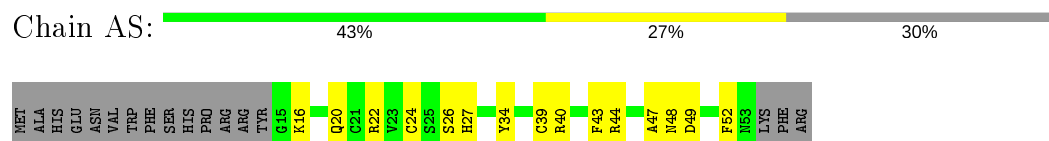
Chain AR: 



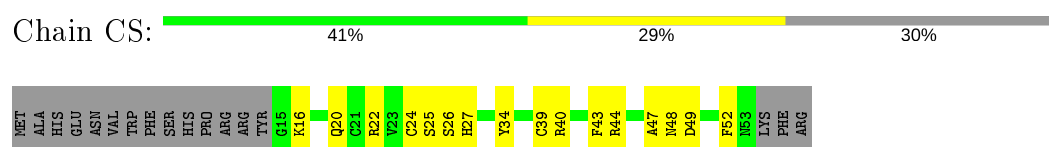
- Molecule 19: 40S ribosomal protein S28-A



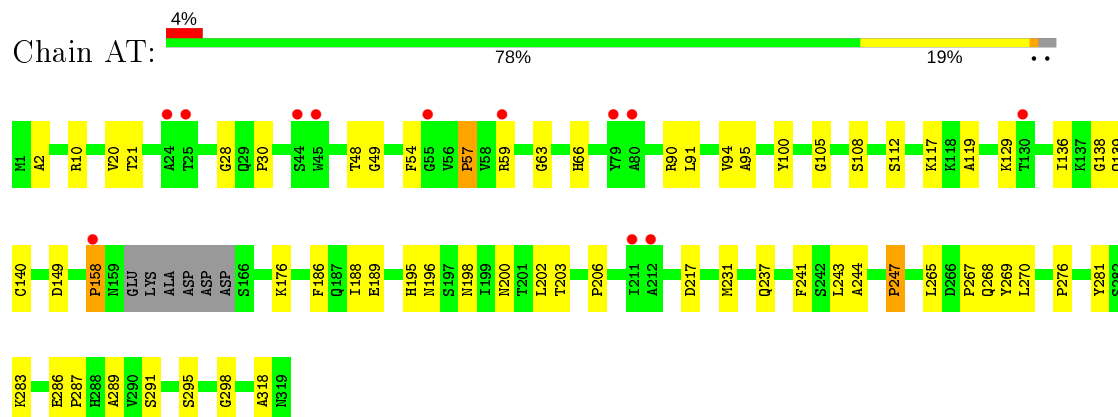
- Molecule 20: 40S ribosomal protein S29-A



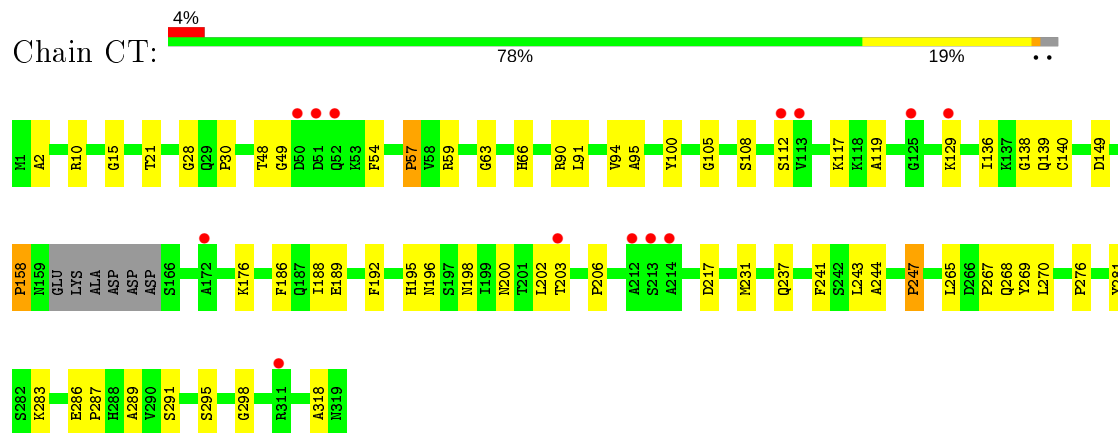
- Molecule 20: 40S ribosomal protein S29-A



- Molecule 21: Guanine nucleotide-binding protein subunit beta-like protein; RACK-1



- Molecule 21: Guanine nucleotide-binding protein subunit beta-like protein; RACK-1



- Molecule 22: Unassigned secondary structure

Chain Aa:  100%

There are no outlier residues recorded for this chain.

- Molecule 22: Unassigned secondary structure

Chain Bo:  95% 5%



- Molecule 22: Unassigned secondary structure

Chain Ca:  100%

There are no outlier residues recorded for this chain.

- Molecule 23: Unassigned secondary structure

Chain Ab:  99% .



- Molecule 23: Unassigned secondary structure

Chain Cb:  99% .



- Molecule 24: Unassigned secondary structure

Chain Ac:  99% .



- Molecule 24: Unassigned secondary structure

Chain Cc:  100%

There are no outlier residues recorded for this chain.

- Molecule 25: Unassigned secondary structure

Chain Ad:  100%

There are no outlier residues recorded for this chain.

- Molecule 25: Unassigned secondary structure

Chain Cd:  100%

There are no outlier residues recorded for this chain.

- Molecule 26: Unassigned secondary structure

Chain Ae:  100%

There are no outlier residues recorded for this chain.

- Molecule 26: Unassigned secondary structure

Chain Bj:  100%

There are no outlier residues recorded for this chain.

- Molecule 26: Unassigned secondary structure

Chain Dj:  100%

There are no outlier residues recorded for this chain.

- Molecule 27: Unassigned secondary structure

Chain Af:  100%

There are no outlier residues recorded for this chain.

- Molecule 28: Unassigned secondary structure

Chain Ah:  100%

There are no outlier residues recorded for this chain.

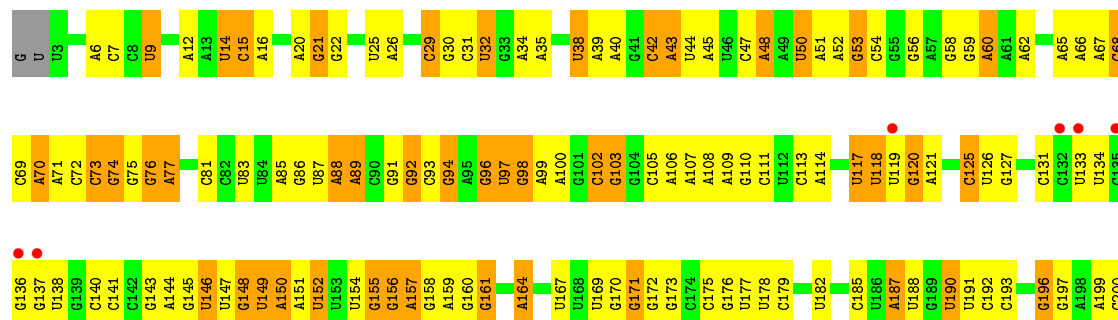
- Molecule 28: Unassigned secondary structure

Chain Ch:  100%

There are no outlier residues recorded for this chain.

- Molecule 29: 25S ribosomal RNA

Chain B1:  2% 29% 47% 19% 6%





A1120	A1054	U985	A920	G880	U790	C729	A660	C596	U528	G	G400	G337	A266	A201
U1123	A1056	G986	A921	C861	A791	C730	G661	G597	A529	U	U401	A338	G267	G202
U1124	U987	U982	U922	U862	G792	U731	U662	A603	A529	G	A402	C339	A268	G203
U1125	U989	C923	C923	C863	G793	G732	A665	A605	G531	G	G403	C340	G269	A204
	U1059	G924	G924	U864	G794	G733	A666	U605	G532	U	G404	G341	U270	C205
U1128	U1060			U865	G795	G734	A667	U606	A533	U	U405	A342	G271	G206
A1061	A992	C927		A866	G796	A735	C667	C806	A533	A	G406	U343	G272	U207
A1062	G993			G867	G799	A736	G668	A607		G	A407	A344	G273	C208
A1063	G994	U930		C868	G800	A737	U669	G609	U536	G	U408	G345	U208	A209
G1131	U995	C931	A1064	G869	A801	G738	C670	G610	G538	G	A409	G346	U209	U210
A1065	A996	U932	A1065	G870	C802	G739	U671	G611	G539	G	U410		G274	A211
A1133	A997	A933	A933	U871	C803	U741		A611	U540	A		A349	G282	
U1067	A998	G934	G934	U872	C804	G742	G674	A612	U541	U	A417	C350	G283	G214
C1068	G999	U935	U935	C873	G805	G743	C675	G613	U541	U	A418	A351	A284	G215
	U1071	A936	A936	U874	A806	A744	G676	C614	U541	C	G419	A352	A285	G216
A1136	G1001	G937	G937	G875	A807	C745	A677	U615	C544	U	G420	G353	U217	U217
U1138	U1002	C938	C938	A876	A808	A746	U678	G616	U545	C	G421	U354	G287	G218
A1003	U939	U939	U939	A877	C809	A747	U679	G617	U546	G	A422	C354	G288	A219
U1074	U1004	G940	G940	C877	G809	A748	G680	C618	U547	C	G423	A357	G289	G220
G1005	G1005	G941	G941	U879	U811	C749	U681	A619	U548	A	G424	G358	G290	A221
U1077	U1007	U942	U942	G880	G812	G750	U682	A620	U549	U	A428	U359	U292	A222
U1078	U1008	C943	C943	C881	G813	A751	U683	A621	U550	U	U429	G360	C283	U223
A1079	U1009	U944	U944	A882	U814	C752	G684	A622	U551	U	U430	A361	U294	C224
A1080	U1010	C945	C945	A883	G815	G753	G685	U623	U552	A	U431	U362	A295	C225
U1081	U1011	U946	U946	A884	A816	A754	G686	G624	U553	C	U432	G363	A296	C226
U1082	G1012	G947	G947	U885	A817	A755	U687	G625	U554	U	U433	G364	G297	G227
	U1013			C886	U818	U756		U626	A559	U	G434	A365	U298	U228
U1014	C949	C949	C949	U887	G819	C757	A691	U627	A560	U	G435	A366	U299	G229
U1015	U950	U950	U950	A888	A820	C758	A692	A628	C561	U	U436	G367	G300	U230
A1085	U951	A951	A951	U889	U821	U759	A693	U629	C562	U	G437	A368	G301	U231
C1086	U1016			U890	G822	G760	G694	A630	U563	U	U438	A369	U302	
U1017	G1017	A952	A952	C891	G823	A761		U631	A564	U	G439	U370	G303	G237
A1091	U1018	G953	G953	U892	U825	U762	A697	G632	A565	U	U440	A371	G304	A238
C1092	G1019	U954	U954	C893	G826	G763	U698	C633	G566	U	U441	A372	U305	G239
A1093	U955	U955	U955	G894	U827	U764	A699	C634	C500	U		A373	U306	U240
U1024	A827	U956	U956	A895	G828	C765		G635	A501	U	G	A374	A307	G241
U1025	C957	C957	C957	A896	U829	U766	G703	G636	A572	U	G	A375	A308	C242
A1026	U958	C958	C958	U897	G830	U767	U704	C637	C573	U		A376		G243
U1027	G959	G959	G959	U898	A831	C768	A705	C638	C574	U		A377		G244
U1028	U960	U960	U960	U899	G832	C769	A706	G639	G575	U	G	A378	U245	U245
G1029	C961	C961	C961	G900	U833	G770	U707	U640	C576	U	U	U380	U246	U246
A1030	A962	A962	A962	G901	U834	A771		C641	C577	U	U	U381	C247	C247
G963	U963	U963	U963	G902	G835	U772	A711	U642	A578	U	U	U382	U248	U248
G964	A964	A964	A964	G903	G836	G773	G712	U643	G579	U	U	U383	U249	U249
A965	U965	U965	U965	U904	A837	G774	U713	G644	C580	U	G	A384	U250	U250
U966	A967	A967	A967	U905	G838	A775	G714	A645	U581	U	U	A385	G251	G251
C1038	G968	G968	G968	A906	C839	U776	A715	A646	G582	U	U	A386	U252	U252
C969	U969	U969	U969	G907	C840	U777	A716	A647	G583	U	C	A387	A324	A253
U1041	A970	A970	A970	G908	A841	U778	C717	G648	G584	U	C	A388	A325	A254
U1042	G971	G971	G971	G909	G842	G779	G718	A649	A585	U	C	A389	A326	A255
C1043	U1043	U1043	U1043	G910	A845	A780	U719	C850	C586	U	U	G390	U326	G256
U1044	C975	C975	C975	C911	A846	A781	A720	G851	A516	C	C	A391	U327	U257
A1047				G912	A847	U782	G721	G852	G517	U	U	A392	U328	G258
G1113	G1113	G1113	G1113	A913	A848	A783	G722	A853	A519	U	G	U393	U329	C259
A1048	G978	G978	G978	A914	G849	A784	U723	C654	G590	U	U	G394	G331	C260
U979	U979	U979	U979	A915		G785	U724	C655	A521	U	C	A395	U261	U261
A1049	G1114	G1114	G1114	G916		A786	G725	A856	A592	U	C	A396	G332	G262
U1050	A980	A980	A980	G917	G857	A787	G726	A857	C593	U	C	A397	G333	C263
U1051	U981	U981	U981	C918	G858	G727	G727	G858	U594	U	U	A398	G334	G264
C1118	U1052	U1052	U1052	A917	C788	G728	G728	G659	C525	U	U	A399	A336	A265
A1053	G984	G984	G984	U919	G859	A789	G728							

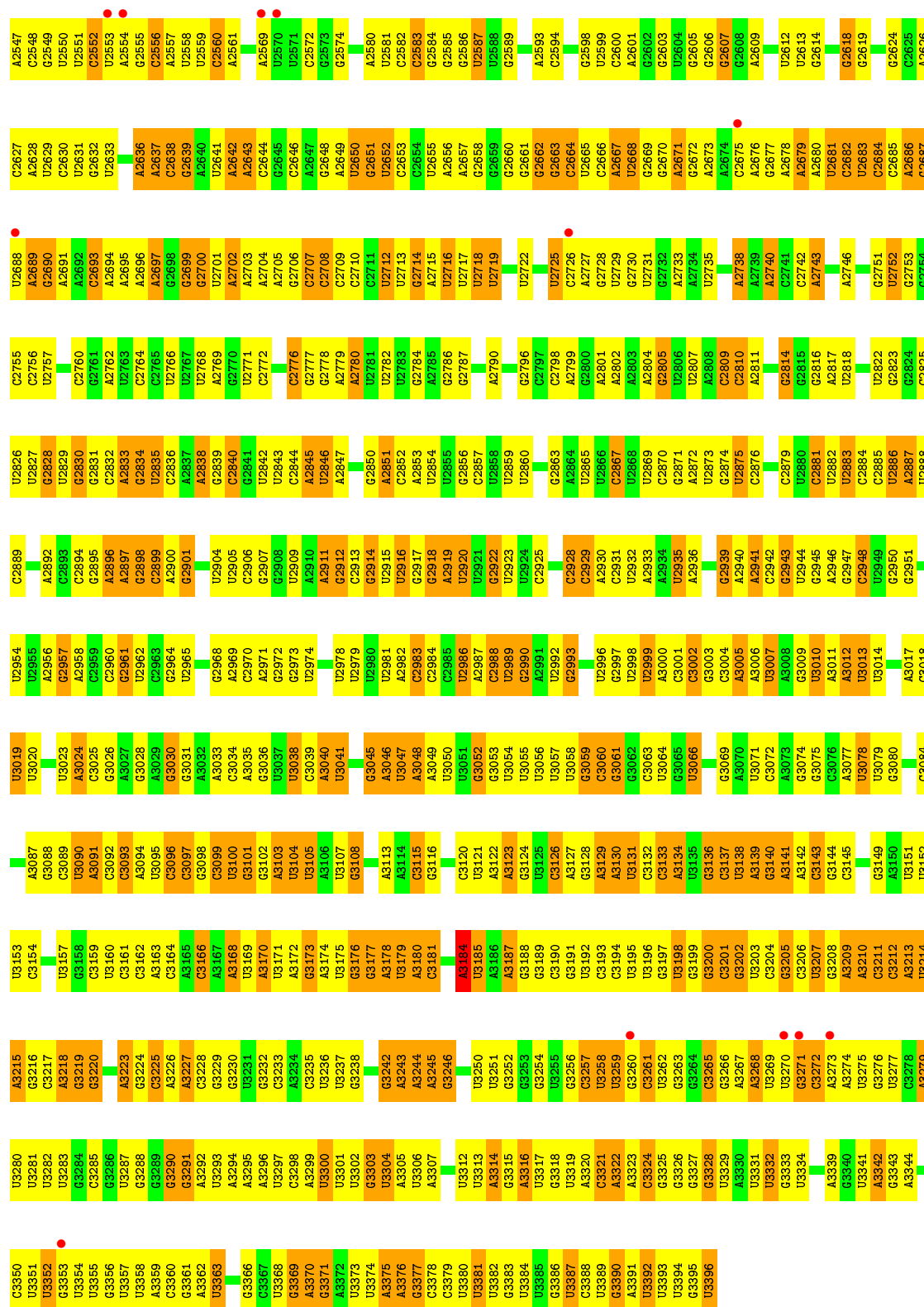


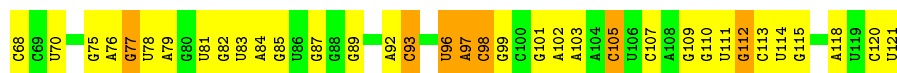
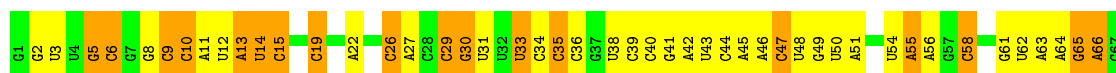
A3049	C3985	U2916	G2778	C2710	A2647	G2574	U2497	G2429	U2292	A2215	A2142
G3052	U2986	G2917	A2779	C2711	G2648	A2580	U2498	A2432	A2295	G2218	A2143
G3053	C2987	G2918	A2780	U2712	U2649	A2581	A2499	A2433	A2296	G2219	A2144
U3054	C2988	A2919	U2781	U2713	U2650	G2582	A2500	U2434	U2297	A2222	C2146
U3055	U2989	U2920	U2782	G2714	G2651	C2583	U2501	U2435	U2298	A2223	A2147
U3056	G2990	U2921	U2783	G2715	U2652	G2584	G2502	U2436	A2235	A2224	U2148
A2991	A2991	G2922	G2784	U2716	C2653	G2584	G2503	U2437	A2239	A2224	A2149
U2992	U2992	U2923	G2785	U2717	G2654	G2585	U2504	A2438	G2300	C2227	A2150
G2993	U2993	U2924	G2787	U2718	A2656	G2586	U2505	A2439	U2301	G2227	C2151
			A2790	U2719	A2657	U2587	U2508		G2302	C2237	C2152
				U2720	G2658	G2588			G2303	U2241	U2153
				U2721		G2589			C2304		
				U2722		A2593			C2305		
				A2723		G2594			C2306		
				U2724		G2595			G2307		
				U2725		U2596			C2308		
				U2726		U2597			U2309		
				U2727		G2598			U2310		
				U2728		U2599			G2311		
				U2729		G2600			A2312		
				U2730		A2601			A2313		
				U2731		G2602			G2248		
				U2732		G2603			G2249		
				U2733		G2604			G2250		
				U2734		U2605			G2251		
				U2735		G2606			G2252		
				U2736		U2607			G2253		
				U2737		G2608			G2254		
				U2738		U2609			A2255		
				U2739		G2610			A2256		
				U2740		U2611			A2257		
				U2741		G2612			U2258		
				U2742		U2613			U2259		
				U2743		G2614			G2260		
				U2744		U2615			G2261		
				U2745		G2616			G2262		
				U2746		U2617			G2263		
				U2747		G2618			G2264		
				U2748		U2619			G2265		
				U2749		G2620			G2266		
				U2750		U2621			G2267		
				U2751		G2622			A2270		
				U2752		U2623			U2271		
				U2753		G2624			U2272		
				U2754		U2625			U2273		
				U2755		G2626			U2274		
				U2756		U2627			A2275		
				U2757		G2628			U2276		
				U2758		U2629			U2277		
				U2759		G2630			U2278		
				U2760		U2631			U2279		
				U2761		G2632			U2280		
				U2762		U2633			U2281		
				U2763		G2634			U2282		
				U2764		U2635			U2283		
				U2765		G2636			U2284		
				U2766		U2637			U2285		
				U2767		G2638			U2286		
				U2768		U2639			U2287		
				U2769		G2640			U2288		
				U2770		U2641			U2289		
				U2771		G2642			U2290		
				U2772		U2643			U2291		
				U2773		G2644					
				U2774		U2645					
				U2775		G2646					
				U2776		U2647					
				U2777		G2648					
				U2778		U2649					
				U2779		G2650					
				U2780		U2651					
				U2781		G2652					
				U2782		U2653					
				U2783		G2654					
				U2784		U2655					
				U2785		G2656					
				U2786		U2657					
				U2787		G2658					
				U2788		U2659					
				U2789		G2660					
				U2790		U2661					
				U2791		G2662					
				U2792		U2663					
				U2793		G2664					
				U2794		U2665					
				U2795		G2666					
				U2796		U2667					
				U2797		G2668					
				U2798		U2669					
				U2799		G2670					
				U2800		U2671					
				U2801		G2672					
				U2802		U2673					
				U2803		G2674					
				U2804		U2675					
				U2805		G2676					
				U2806		U2677					
				U2807		G2678					
				U2808		U2679					
				U2809		G2680					
				U2810		U2681					
				U2811		G2682					
				U2812		U2683					
				U2813		G2684					
				U2814		U2685					
				U2815		G2686					
				U2816		U2687					
				U2817		G2688					
				U2818		U2689					
				U2819		G2690					
				U2820		U2691					
				U2821		G2692					
				U2822		U2693					
				U2823		G2694					
				U2824		U2695					
				U2825		G2696					
				U2826		U2697					
				U2827		G2698					
				U2828		U2699					
				U2829		G2700					
				U2830		U2701					
				U2831		G2702					
				U2832		U2703					
				U2833		G2704					
				U2834		U2705					
				U2835		G2706					
				U2836		U2707					
				U2837		G2708					
				U2838		U2709					
				U2839		G2710					
				U2840		U2711					
				U2841		G2712					
				U2842		U2713					
				U2843		G2714					
				U2844		U2715					
				U2845		G2716					
				U2846		U2717					
				U2847		G2718					
				U2848		U2719					
				U2849		G2720					
				U2850		U2721					
				U2851		G2722					
				U2852		U2723					
				U2853		G2724					
				U2854		U2725					
				U2855		G2726					
				U2856		U2727					
				U2857		G2728					
				U2858		U2729					
				U2859		G2730					
				U2860		U2731					
				U2861		G2732					
				U2862		U2733					
				U2863		A2734					
				U2864		G2735					
				U2865		U2736					
				U2866		G2737					
				U2867		U2738					
				U2868		G2739					
				U2869		U2740					
				U2870		G2741					
				U2871		U2742					
				U2872		G2743					
				U2873		U2744					
				U2874		G2745					
				U2875		U2746					
				U2876		G2747					
				U2877		U2748					
				U2878		G2749					
				U2879		U2750					
				U2880		G2751					
				U2881		U2752					
				U2882		G2753					
				U2883		U2754					
				U2884		G2755					
				U2885		U2756					
				U2886		G2757					
				U2887		U2758					
				U2888		G2759					
				U2889		U2760					



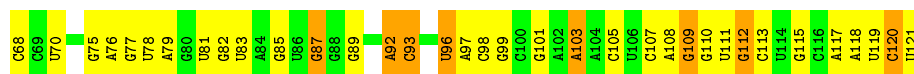




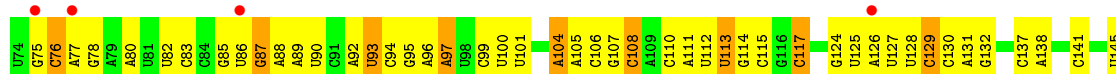
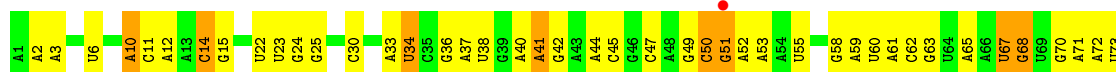




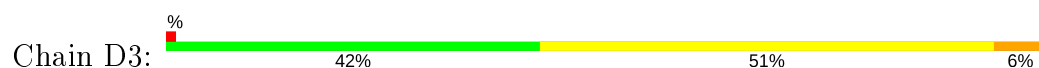
• Molecule 30: 5S ribosomal RNA



• Molecule 31: 5.8S ribosomal RNA



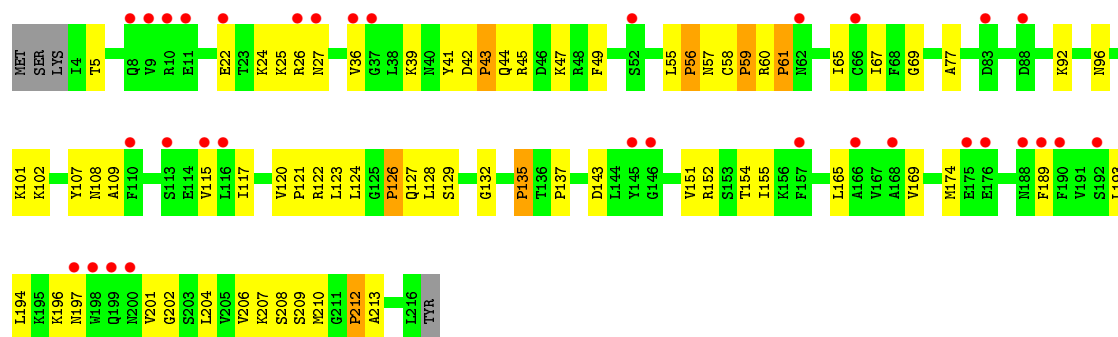
• Molecule 31: 5.8S ribosomal RNA



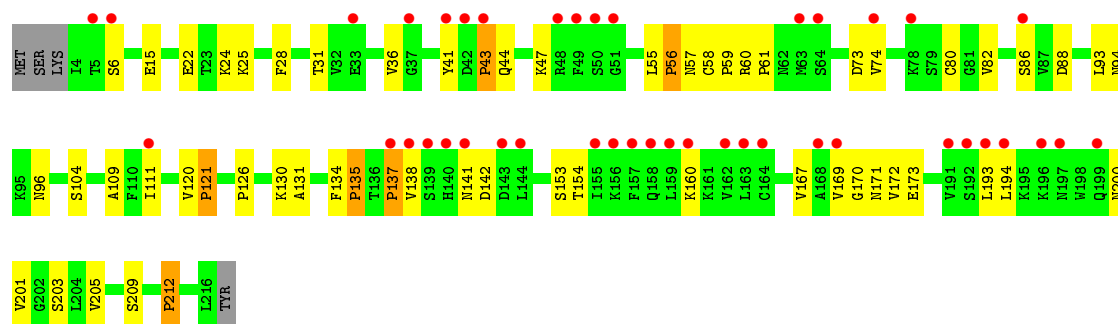
• Molecule 32: 60S ribosomal protein L1



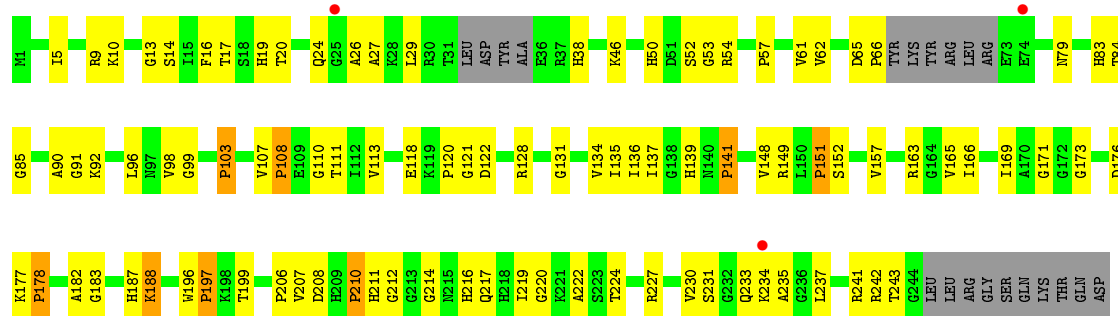




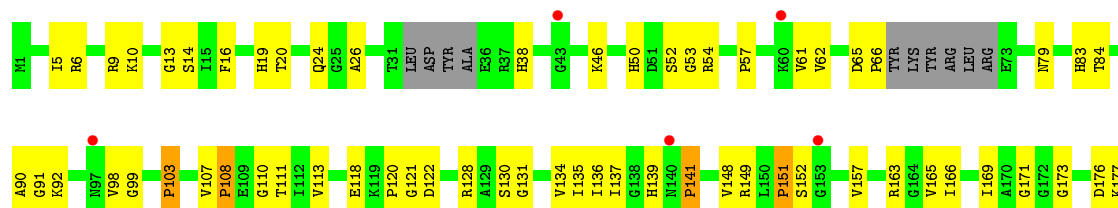
• Molecule 32: 60S ribosomal protein L1



• Molecule 33: 60S ribosomal protein L2



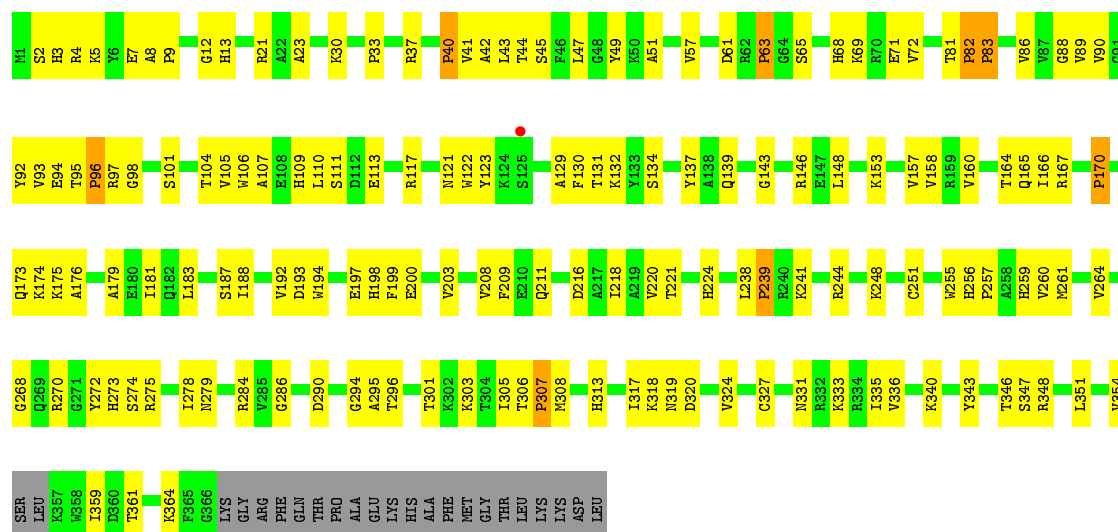
• Molecule 33: 60S ribosomal protein L2





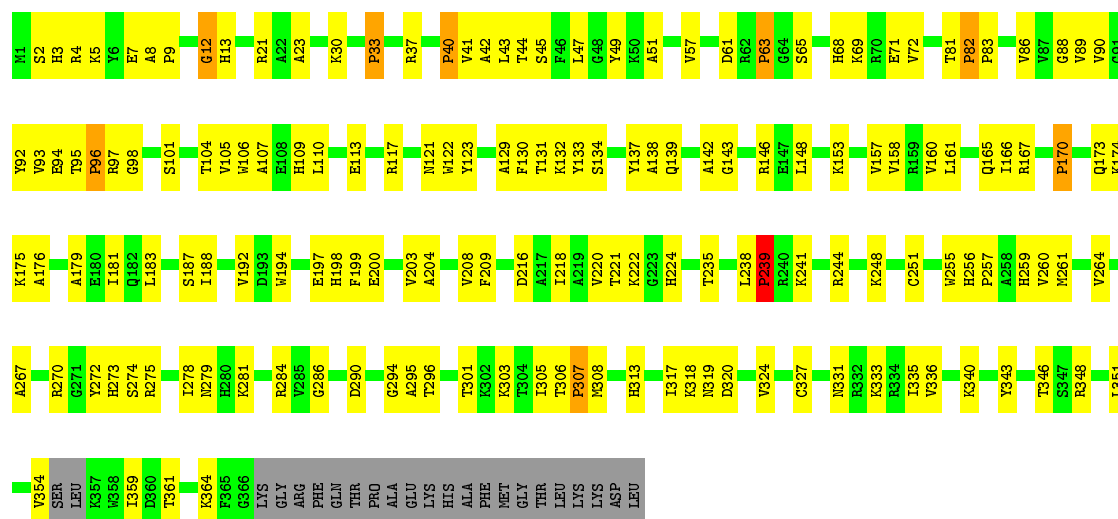
• Molecule 34: 60S ribosomal protein L3

Chain BC: 54% 38% 6%



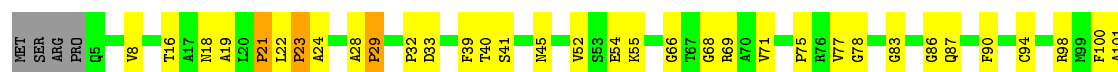
• Molecule 34: 60S ribosomal protein L3

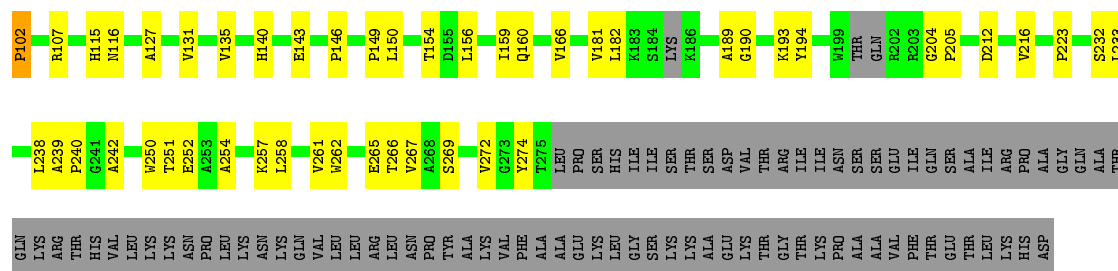
Chain DC: 53% 39% 6%



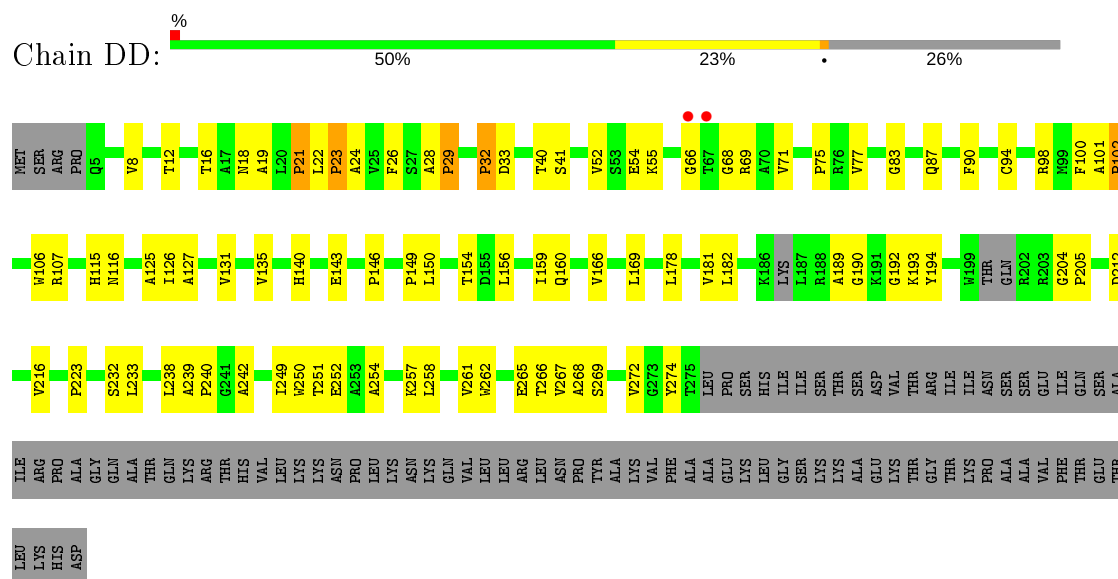
• Molecule 35: 60S ribosomal protein L4-A

Chain BD: 51% 22% 26%

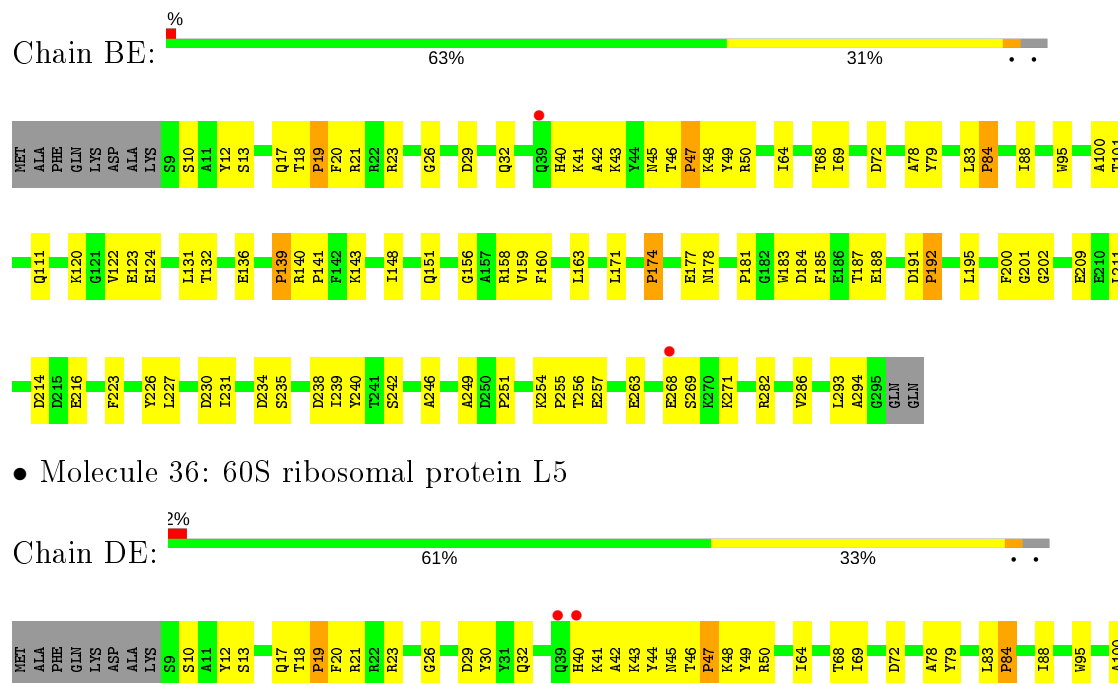


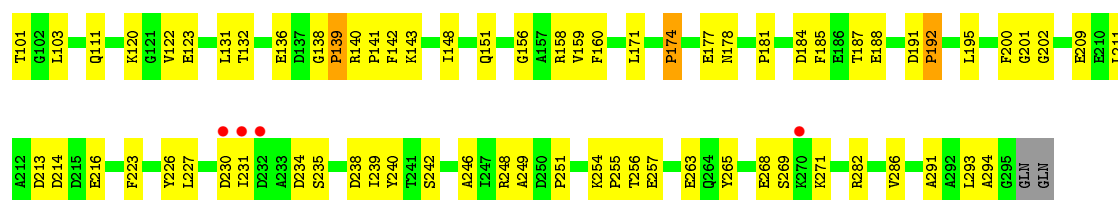


• Molecule 35: 60S ribosomal protein L4-A

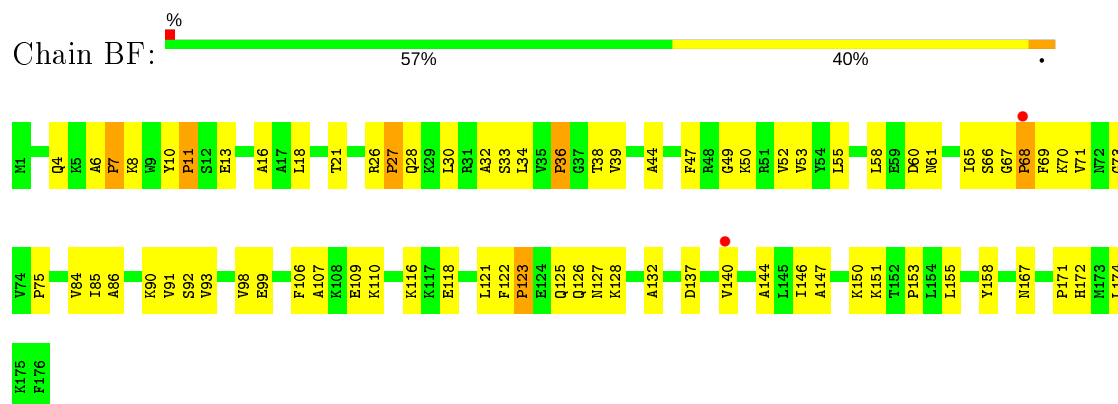


• Molecule 36: 60S ribosomal protein L5

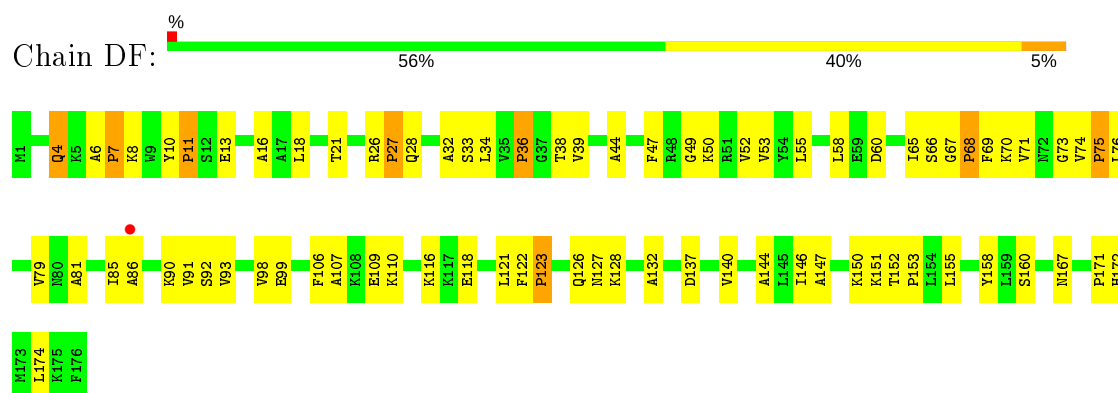




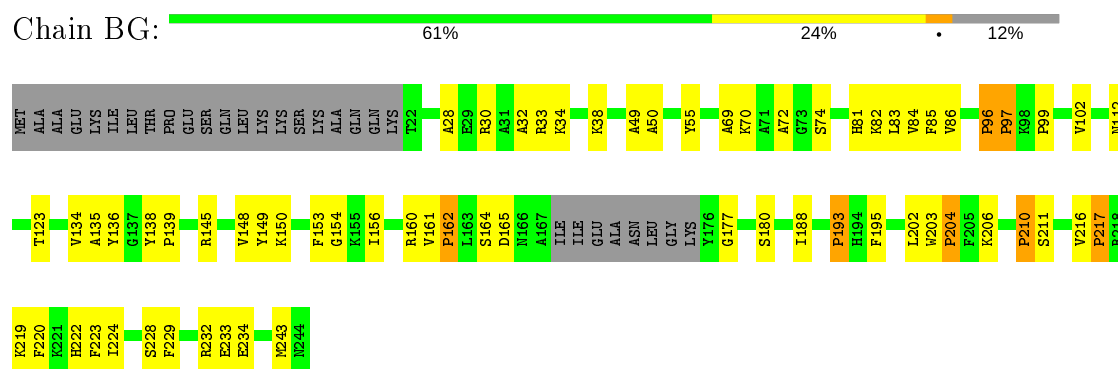
• Molecule 37: 60S ribosomal protein L6-A



• Molecule 37: 60S ribosomal protein L6-A

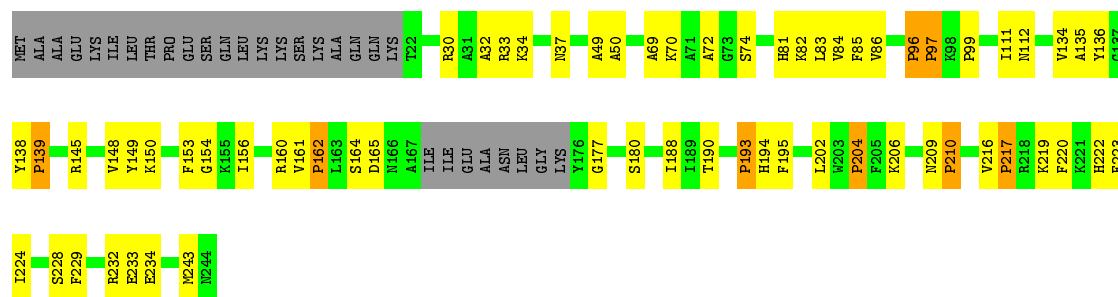


• Molecule 38: 60S ribosomal protein L7-A

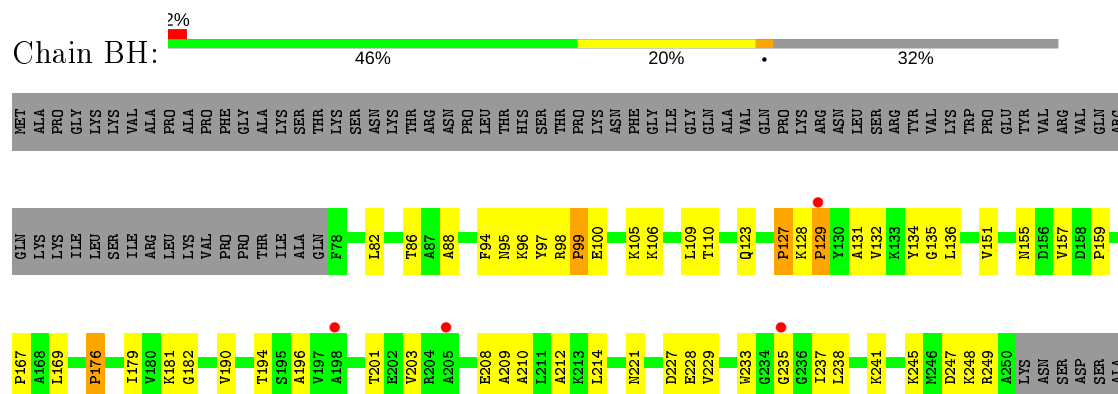


• Molecule 38: 60S ribosomal protein L7-A

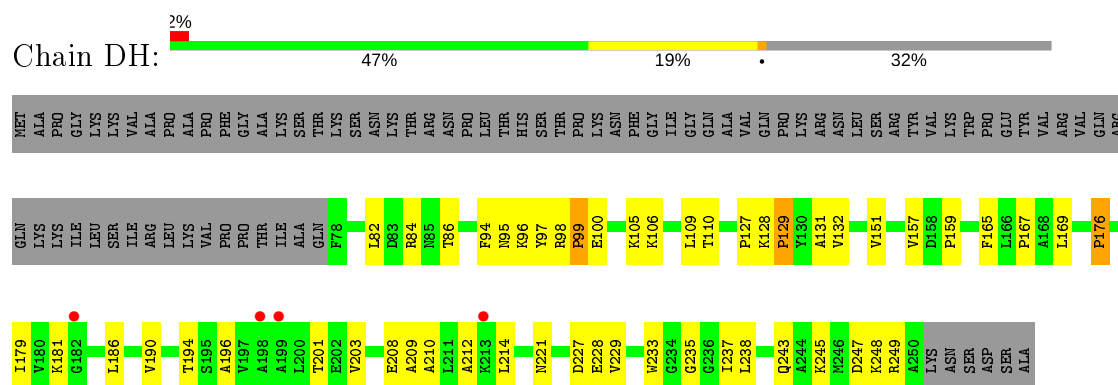




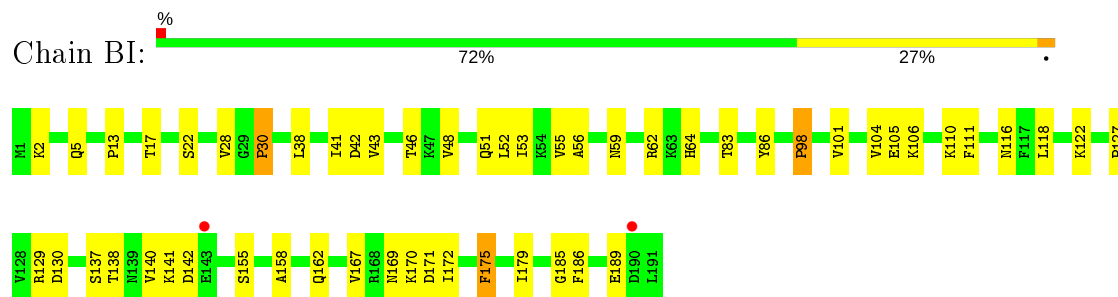
- Molecule 39: 60S ribosomal protein L8-A



- Molecule 39: 60S ribosomal protein L8-A

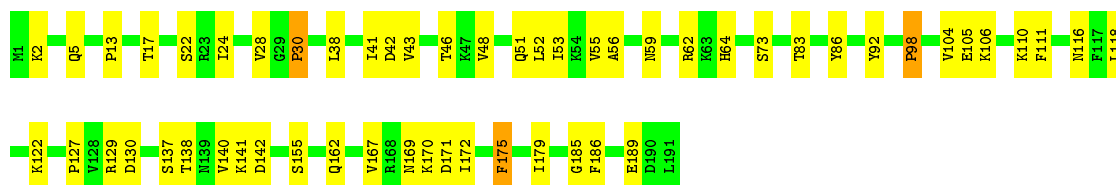


- Molecule 40: 60S ribosomal protein L9-A



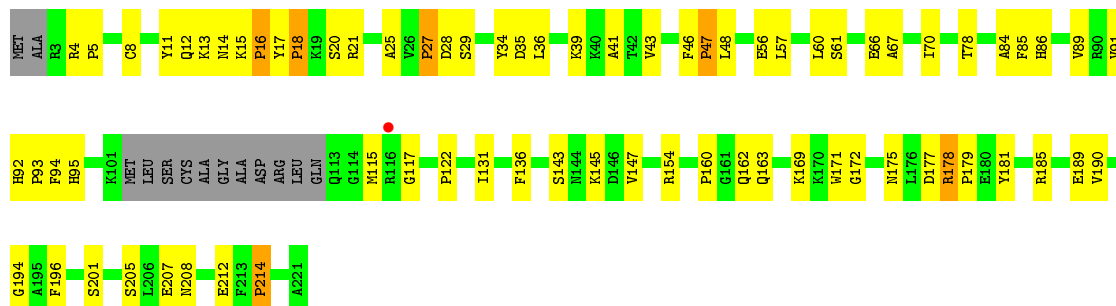
- Molecule 40: 60S ribosomal protein L9-A





- Molecule 41: 60S ribosomal protein L10

Chain BJ: 61% 31% 6%



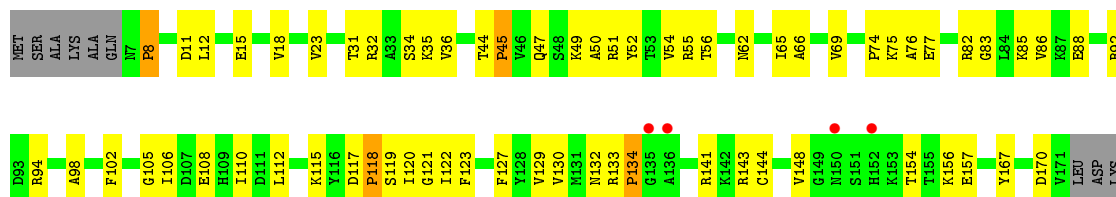
- Molecule 41: 60S ribosomal protein L10

Chain DJ: 60% 30% 6%



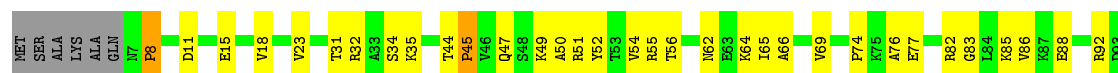
- Molecule 42: 60S ribosomal protein L11-A

Chain BK: 57% 36% 5%



- Molecule 42: 60S ribosomal protein L11-A

Chain DK: 59% 34% 5%



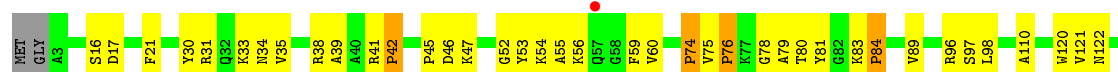
- Molecule 43: 60S ribosomal protein L14-A



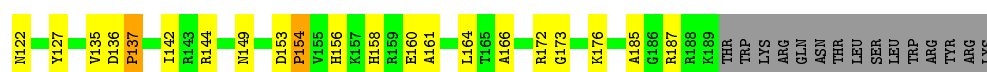
- Molecule 43: 60S ribosomal protein L14-A



- Molecule 44: 60S ribosomal protein L15-A



- Molecule 44: 60S ribosomal protein L15-A



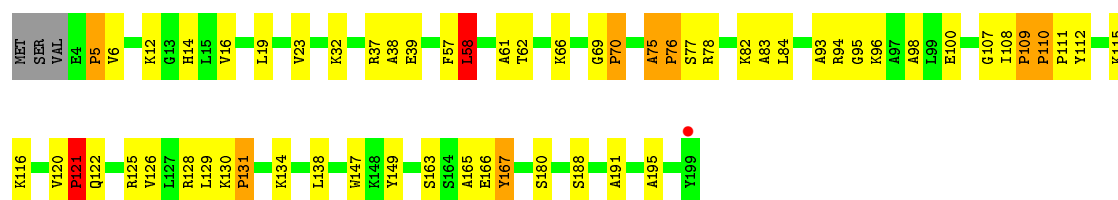
- Molecule 45: 60S ribosomal protein L16-A

Chain BP: 



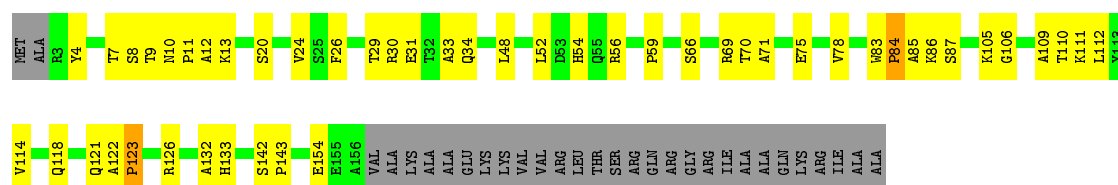
- Molecule 45: 60S ribosomal protein L16-A

Chain DP: 



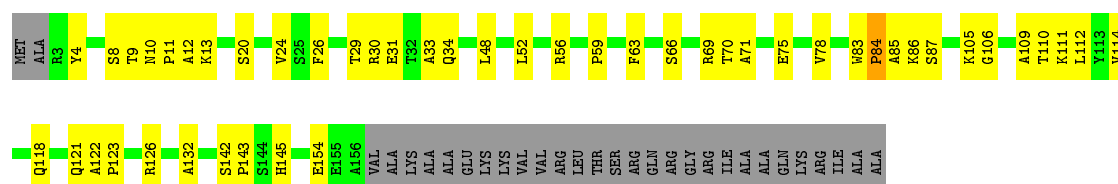
- Molecule 46: 60S ribosomal protein L17-A

Chain BQ: 



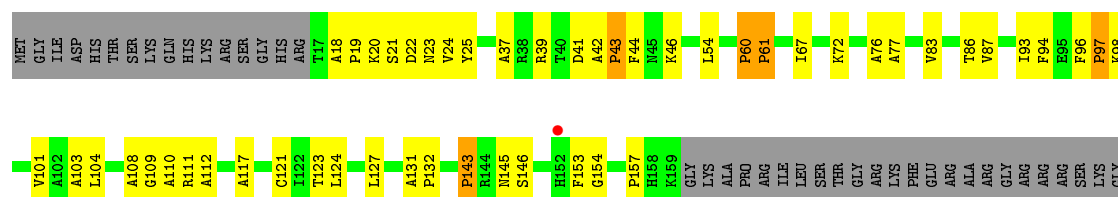
- Molecule 46: 60S ribosomal protein L17-A

Chain DQ: 



- Molecule 47: 60S ribosomal protein L18

Chain BR: 





PHE  
LYS  
VAL

- Molecule 47: 60S ribosomal protein L18


Chain DR: 

MET GLY ILE ASP HIS THR SER LYS GLN HIS LYS ARG SER GLY HIS ARG  
T17 A18 P19 K20 S21 D22 N23 V24 A37 R38 R39 T40 D41 A42 P43 F44 M45 K46 P60 P61 I67 K72 A76 A77 V83 V87 I93 F94 E95 F96 P97 K98 V101 A102 A103

L104 A108 G109 A110 R111 A112 A117 E120 C121 T122 T123 L124 L127 A128 A131 P132 P143 R144 N145 S146 A149 H152 F153 G154 P157 H158 K159 GLY LYS ALA PRO ARG ILE LEU SER THR GLY ARG LYS PHE GLU ARG ALA ARG GLY ARG ARG ARG SER LYS GLY


PHE  
LYS  
VAL

- Molecule 48: 60S ribosomal protein L19

Chain BS: 

MET A2 N3 K8 A12 V17 G18 K19 R20 D25 P26 A33 K53 A54 V55 K60 A67 R71 E72 G77 P90 R97 R104 L105 L106 H121 K128 G129 N130 K133 H134 K135 E140 I143 D152 A153 A159

- Molecule 48: 60S ribosomal protein L19

Chain DS: 

MET A2 N3 A12 V17 G18 K19 R20 D25 P26 N27 R38 V55 K60 R71 E72 P90 I96 R104 L105 L106 H121 K128 G129 N130 K133 H134 K135 E140 I143 A147 N156 E157 E158 A159 E160 R163 L164 K165 M166 R167

A168 A169 R170 D171 R172 A173 A174 Q175 R176 V177 A178 E179 K180 R181 D182 L185 K186 A187 D188 A189

- Molecule 49: 60S ribosomal protein L21-A

Chain BT: 

MET GLY K3 S9 R10 T11 A12 Y13 M14 F15 Q16 F19 A24 A27 L27 S28 T29 Y30 L31 K32 V33 Y34 K35 V36 K42 K43 Q46 S47 T48 Q49 K50 G51 M52 P53 B54 K55 P56 Y57 Q58 G59 V64 Y65 N66 V67 T68 K69 S70 S71 V72 G73 V74 I75 I76 N77

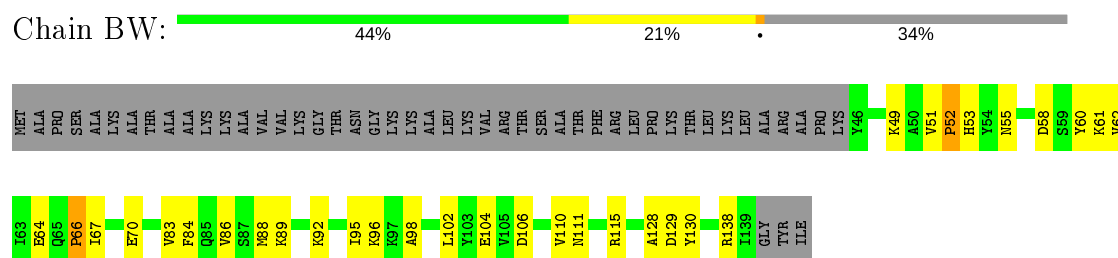
K78 K79 W80 G81 L85 H98 S99 R108 V109 K110 A121 G122 GLY VAL ALA VAL GLN LEU LYS ARG GLN PRO ALA GLN PRO ARG GLU SER ARG ILE VAL SER THR GLU GLY ASN VAL PRO GLN THR LEU ALA VAL TYR GLU THR PHE ILE

- Molecule 49: 60S ribosomal protein L21-A

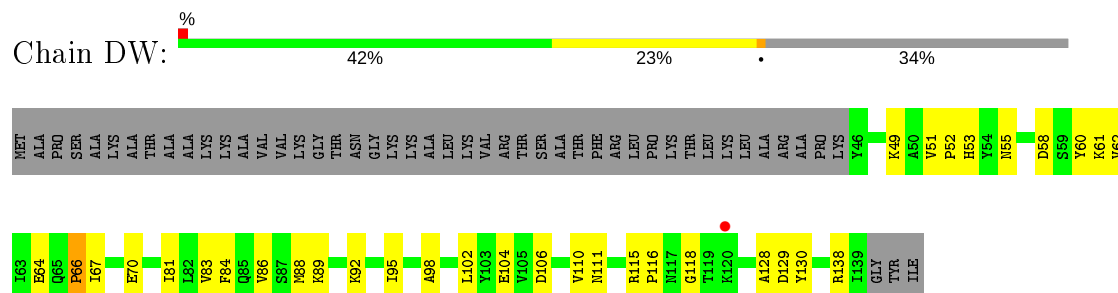
Chain DT: 



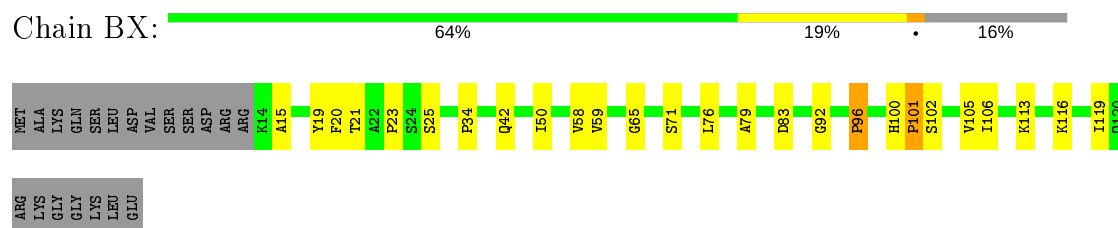
- Molecule 52: 60S ribosomal protein L25



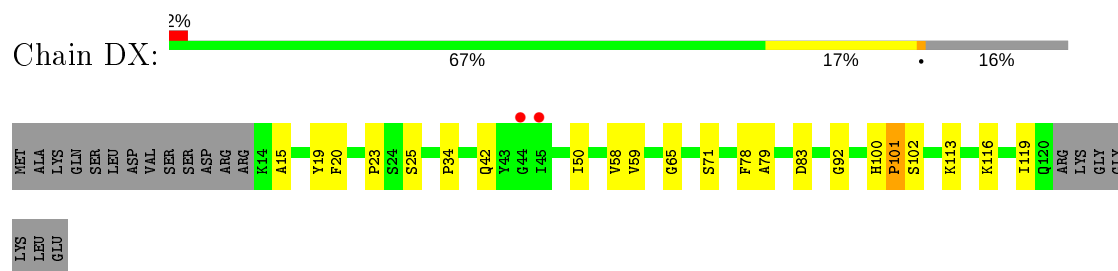
- Molecule 52: 60S ribosomal protein L25



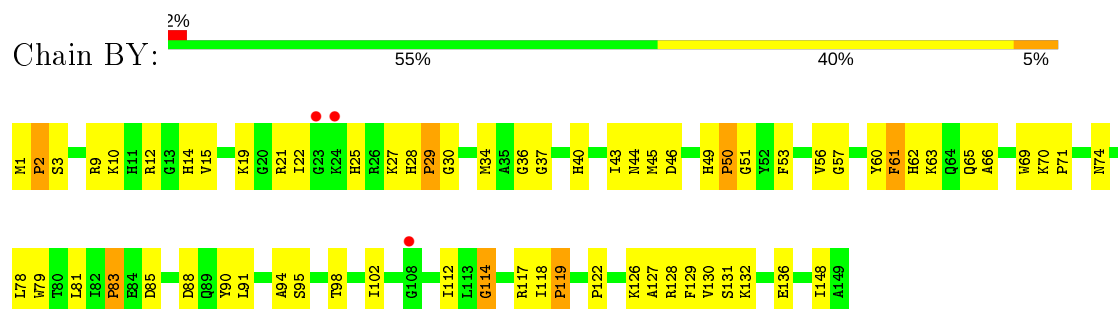
- Molecule 53: 60S ribosomal protein L26-A



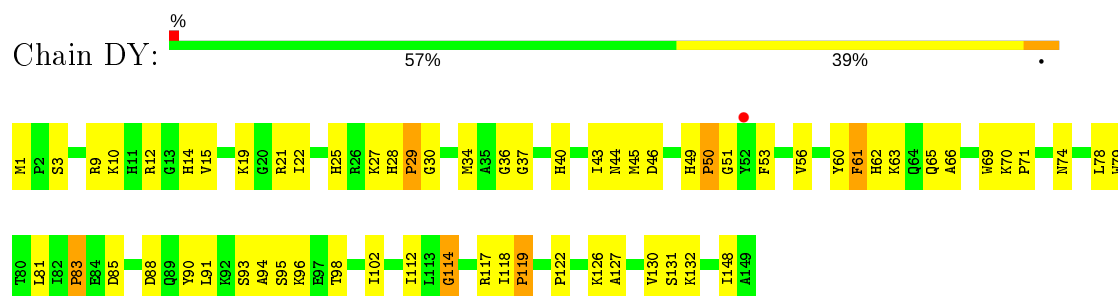
- Molecule 53: 60S ribosomal protein L26-A



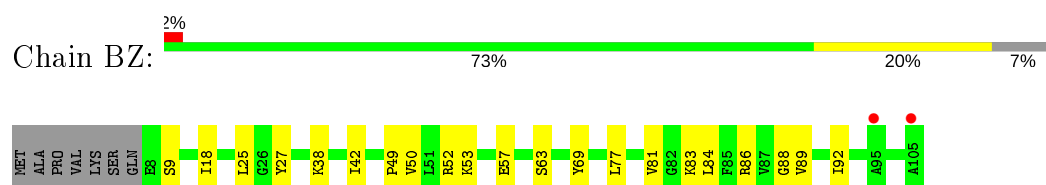
- Molecule 54: 60S ribosomal protein L28



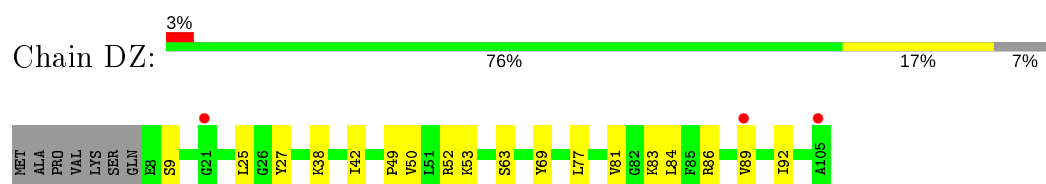
- Molecule 54: 60S ribosomal protein L28



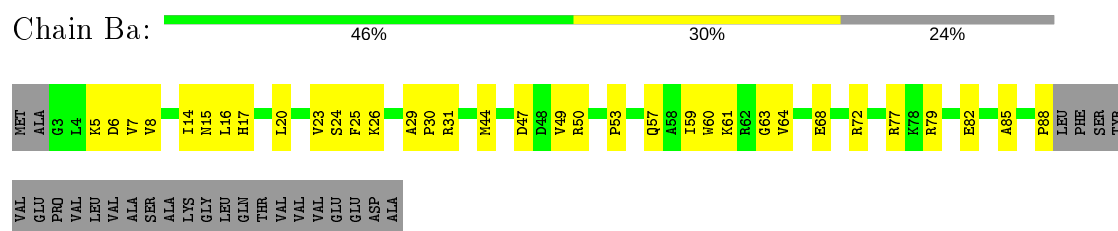
- Molecule 55: 60S ribosomal protein L30



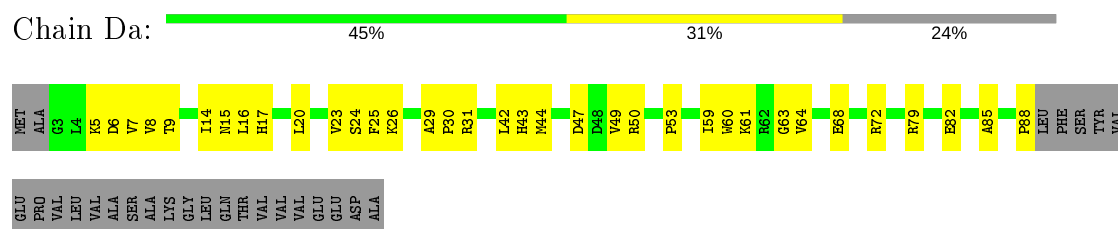
- Molecule 55: 60S ribosomal protein L30



- Molecule 56: 60S ribosomal protein L31-A

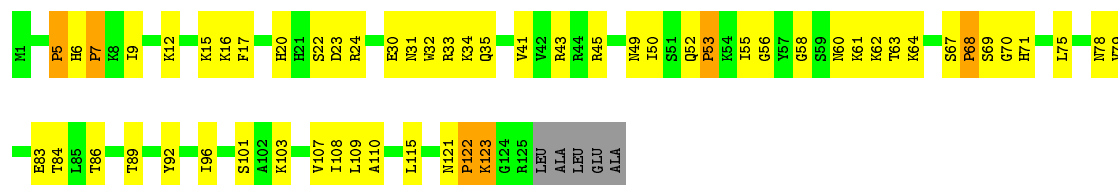


- Molecule 56: 60S ribosomal protein L31-A

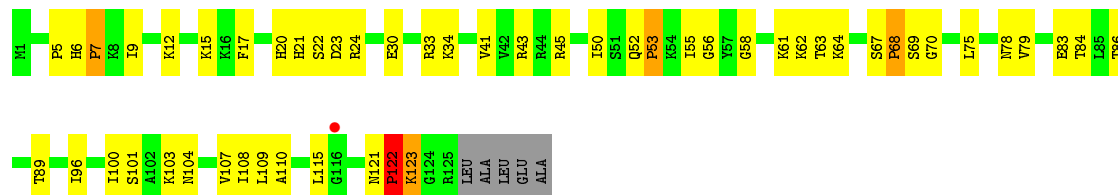


- Molecule 57: 60S ribosomal protein L32

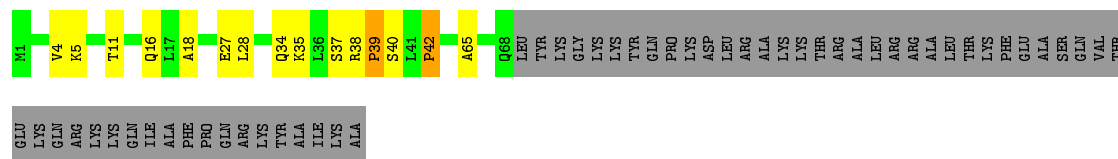




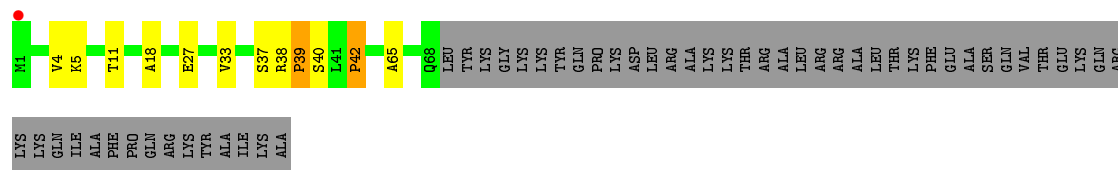
- Molecule 57: 60S ribosomal protein L32



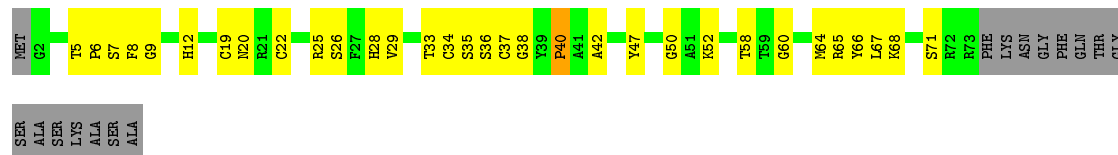
- Molecule 58: 60S ribosomal protein L35



- Molecule 58: 60S ribosomal protein L35

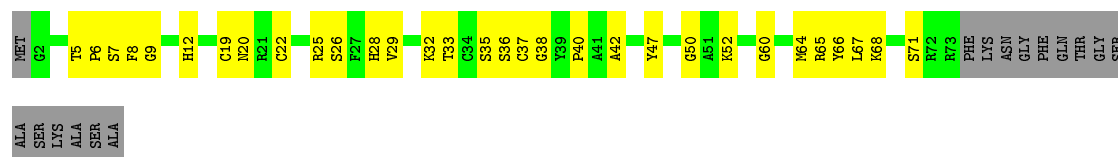


- Molecule 59: 60S ribosomal protein L37-A



- Molecule 59: 60S ribosomal protein L37-A





- Molecule 60: 60S ribosomal protein L39



- Molecule 60: 60S ribosomal protein L39



- Molecule 61: 60S ribosomal protein L42



- Molecule 61: 60S ribosomal protein L42



- Molecule 62: 60S ribosomal protein L43



- Molecule 62: 60S ribosomal protein L43





- Molecule 63: Unassigned secondary structure

Chain Bh:  100%

There are no outlier residues recorded for this chain.

- Molecule 63: Unassigned secondary structure

Chain Dh:  100%

There are no outlier residues recorded for this chain.

- Molecule 64: Unassigned secondary structure

Chain Bi:  100%

There are no outlier residues recorded for this chain.

- Molecule 64: Unassigned secondary structure

Chain Di:  100%

There are no outlier residues recorded for this chain.

- Molecule 65: Unassigned secondary structure

Chain Bk:  100%

There are no outlier residues recorded for this chain.

- Molecule 65: Unassigned secondary structure

Chain Dk:  100%

There are no outlier residues recorded for this chain.

- Molecule 66: Unassigned secondary structure

Chain Bl:  100%

There are no outlier residues recorded for this chain.

- Molecule 67: Unassigned secondary structure

Chain Bm:  100%

There are no outlier residues recorded for this chain.

- Molecule 68: Unassigned secondary structure

Chain Bn:  100%

There are no outlier residues recorded for this chain.

- Molecule 69: Unassigned secondary structure

Chain Bp:  100%

There are no outlier residues recorded for this chain.

- Molecule 70: Unassigned secondary structure

Chain Bq: 

There are no outlier residues recorded for this chain.

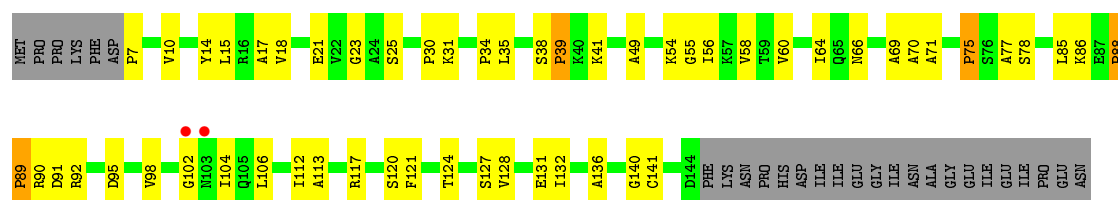
- Molecule 71: Unassigned secondary structure

Chain Br:  100%

There are no outlier residues recorded for this chain.

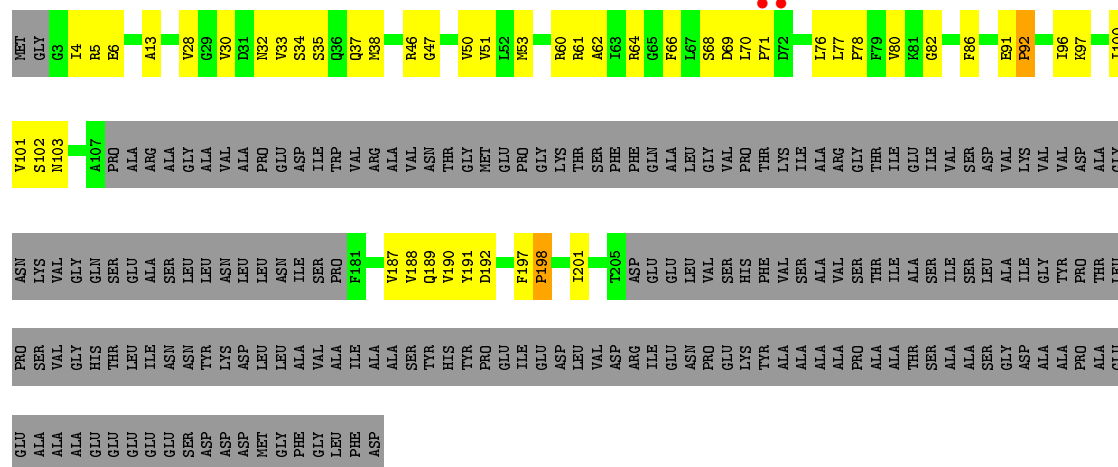
- Molecule 72: 60S ribosomal protein L12

Chain DL: 



- Molecule 73: 60S acidic ribosomal protein P0

Chain DM:  %





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	437.11Å 288.38Å 306.56Å 90.00° 99.13° 90.00°	Depositor
Resolution (Å)	268.00 – 4.00 268.66 – 4.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (268.00-4.00) 97.9 (268.66-4.00)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.57 (at 4.02Å)	Xtriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.278 , 0.341 0.283 , 0.343	Depositor DCC
$R_{free}$ test set	12353 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	147.1	Xtriage
Anisotropy	0.257	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.16 , 252.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.42$ , $\langle L^2 \rangle = 0.25$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.87	EDS
Total number of atoms	309610	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	139.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.68% of the height of the origin peak. No significant pseudotranslation is detected.*

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

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

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
1	A1	0.77	20/42619 (0.0%)	1.32	552/66408 (0.8%)
1	C1	0.83	25/42619 (0.1%)	1.37	627/66408 (0.9%)
2	AA	0.45	0/1089	0.86	16/1517 (1.1%)
2	CA	0.50	0/1089	0.87	15/1517 (1.0%)
3	AB	0.54	0/1073	0.91	13/1488 (0.9%)
3	CB	0.56	0/1073	0.91	10/1488 (0.7%)
4	AC	0.50	0/927	0.68	4/1286 (0.3%)
4	CC	0.47	0/927	0.67	4/1286 (0.3%)
5	AD	0.45	0/834	0.71	5/1159 (0.4%)
5	CD	0.50	0/834	0.79	5/1159 (0.4%)
6	AE	0.49	0/775	0.70	3/1077 (0.3%)
6	CE	0.53	0/775	0.73	3/1077 (0.3%)
7	AF	0.60	0/381	0.88	3/530 (0.6%)
7	CF	0.59	0/381	0.90	4/530 (0.8%)
8	AG	0.51	0/579	0.78	5/806 (0.6%)
8	CG	0.52	0/579	0.79	5/806 (0.6%)
9	AH	0.43	0/626	0.71	4/867 (0.5%)
9	CH	0.44	0/626	0.72	4/867 (0.5%)
10	AI	0.45	0/595	0.90	8/826 (1.0%)
10	CI	0.52	0/595	0.91	7/826 (0.8%)
11	AJ	0.49	0/657	0.78	5/911 (0.5%)
11	CJ	0.55	0/657	0.81	5/911 (0.5%)
12	AK	0.44	0/331	0.74	2/460 (0.4%)
12	CK	0.41	0/331	0.70	2/460 (0.4%)
13	AL	0.47	0/589	0.70	2/816 (0.2%)
13	CL	0.50	0/589	0.72	2/816 (0.2%)
14	AM	0.54	0/518	0.83	3/715 (0.4%)
14	CM	0.68	1/518 (0.2%)	0.89	3/715 (0.4%)
15	AN	0.51	0/550	0.84	5/766 (0.7%)
15	CN	0.52	0/550	0.86	5/766 (0.7%)
16	AO	0.53	0/621	0.83	3/860 (0.3%)
16	CO	0.56	0/621	0.85	3/860 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	AP	0.61	0/565	0.92	4/781 (0.5%)
17	CP	0.68	0/565	0.97	5/781 (0.6%)
18	AQ	0.41	0/331	0.68	2/460 (0.4%)
18	CQ	0.44	0/311	0.74	2/432 (0.5%)
19	AR	0.40	0/229	0.63	1/316 (0.3%)
19	CR	0.42	0/229	0.68	1/316 (0.3%)
20	AS	0.54	0/189	0.70	0/260
20	CS	0.58	0/189	0.73	0/260
21	AT	0.43	0/1541	0.61	8/2141 (0.4%)
21	CT	0.45	0/1541	0.61	8/2141 (0.4%)
29	B1	1.11	229/76764 (0.3%)	1.79	2866/119684 (2.4%)
29	D1	1.08	218/76764 (0.3%)	1.75	2607/119684 (2.2%)
30	B2	1.06	8/2883 (0.3%)	1.70	90/4491 (2.0%)
30	D2	1.17	10/2883 (0.3%)	1.84	112/4491 (2.5%)
31	B3	0.91	6/3746 (0.2%)	1.41	64/5832 (1.1%)
31	D3	0.79	1/3746 (0.0%)	1.28	40/5832 (0.7%)
32	BA	0.34	0/1054	0.63	9/1468 (0.6%)
32	DA	0.33	0/1054	0.61	9/1468 (0.6%)
33	BB	0.62	0/1103	0.92	11/1501 (0.7%)
33	DB	0.53	0/1103	0.87	11/1501 (0.7%)
34	BC	0.70	0/1790	1.05	9/2487 (0.4%)
34	DC	0.76	0/1790	1.08	12/2487 (0.5%)
35	BD	0.67	0/1311	0.95	9/1817 (0.5%)
35	DD	0.55	0/1311	0.90	12/1817 (0.7%)
36	BE	0.53	0/1411	0.93	9/1960 (0.5%)
36	DE	0.59	0/1411	0.97	9/1960 (0.5%)
37	BF	0.76	0/872	1.20	10/1215 (0.8%)
37	DF	0.85	0/872	1.21	12/1215 (1.0%)
38	BG	0.73	0/1059	1.06	8/1471 (0.5%)
38	DG	0.75	0/1059	1.05	9/1471 (0.6%)
39	BH	0.48	0/855	0.79	6/1190 (0.5%)
39	DH	0.45	0/855	0.76	6/1190 (0.5%)
40	BI	0.64	0/941	0.86	4/1308 (0.3%)
40	DI	0.73	0/941	0.92	5/1308 (0.4%)
41	BJ	0.66	0/1025	0.89	8/1424 (0.6%)
41	DJ	0.71	0/1025	0.91	9/1424 (0.6%)
42	BK	0.56	0/809	0.86	5/1122 (0.4%)
42	DK	0.61	0/809	0.87	4/1122 (0.4%)
43	BN	0.71	0/592	1.05	6/823 (0.7%)
43	DN	0.82	0/592	1.14	6/823 (0.7%)
44	BO	0.59	0/922	0.88	7/1282 (0.5%)
44	DO	0.51	0/922	0.86	7/1282 (0.5%)
45	BP	0.80	0/966	1.12	10/1343 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
45	DP	0.84	1/966 (0.1%)	1.14	12/1343 (0.9%)
46	BQ	0.72	0/760	0.94	5/1057 (0.5%)
46	DQ	0.65	0/760	0.87	4/1057 (0.4%)
47	BR	0.70	0/705	1.00	6/980 (0.6%)
47	DR	0.60	0/705	0.94	7/980 (0.7%)
48	BS	0.52	0/930	0.63	2/1295 (0.2%)
48	DS	0.48	0/930	0.58	2/1295 (0.2%)
49	BT	0.68	0/585	0.85	0/812
49	DT	0.70	0/585	0.87	0/812
50	BU	0.63	0/630	0.86	5/872 (0.6%)
50	DU	0.75	0/630	0.93	5/872 (0.6%)
51	BV	0.54	0/290	0.84	2/402 (0.5%)
51	DV	0.58	0/290	0.85	2/402 (0.5%)
52	BW	0.55	0/467	0.84	2/651 (0.3%)
52	DW	0.49	0/467	0.81	3/651 (0.5%)
53	BX	0.55	0/529	0.78	4/736 (0.5%)
53	DX	0.49	0/529	0.74	3/736 (0.4%)
54	BY	0.70	0/726	1.10	9/1004 (0.9%)
54	DY	0.62	0/726	1.03	8/1004 (0.8%)
55	BZ	0.49	0/480	0.62	1/665 (0.2%)
55	DZ	0.46	0/480	0.62	1/665 (0.2%)
56	Ba	0.62	0/424	0.94	3/589 (0.5%)
56	Da	0.59	0/424	0.92	3/589 (0.5%)
57	Bb	0.72	0/617	1.13	6/858 (0.7%)
57	Db	0.61	0/617	1.07	6/858 (0.7%)
58	Bc	0.53	0/338	0.82	2/471 (0.4%)
58	Dc	0.45	0/338	0.74	2/471 (0.4%)
59	Bd	0.63	0/351	0.97	2/485 (0.4%)
59	Dd	0.54	0/351	0.89	2/485 (0.4%)
60	Be	0.59	0/239	0.85	2/333 (0.6%)
60	De	0.46	0/239	0.79	2/333 (0.6%)
61	Bf	0.47	0/466	0.68	2/646 (0.3%)
61	Df	0.39	0/466	0.66	2/646 (0.3%)
62	Bg	0.53	0/406	0.74	1/562 (0.2%)
62	Dg	0.49	0/406	0.67	0/562
72	DL	0.42	0/678	0.75	7/941 (0.7%)
73	DM	0.48	0/639	0.76	4/886 (0.5%)
All	All	0.92	519/326627 (0.2%)	1.50	7498/496371 (1.5%)

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
3	AB	0	2
3	CB	0	2
17	AP	0	1
17	CP	0	1
18	AQ	0	1
18	CQ	0	1
22	Bo	0	1
23	Ab	0	1
23	Cb	0	1
24	Ac	0	1
29	B1	0	3
29	D1	0	3
34	BC	0	5
34	DC	0	6
35	BD	0	1
35	DD	0	2
36	BE	0	1
36	DE	0	1
37	BF	0	4
37	DF	0	4
38	BG	0	1
38	DG	0	1
42	BK	0	1
42	DK	0	1
44	DO	0	1
45	BP	0	4
45	DP	0	5
49	BT	0	1
49	DT	0	1
51	BV	0	1
51	DV	0	1
54	BY	0	2
54	DY	0	2
56	Ba	0	1
56	Da	0	1
57	Bb	0	1
57	Db	0	1
All	All	0	68

All (519) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	3243	A	N9-C4	13.96	1.46	1.37

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	308	A	C6-N1	-13.36	1.26	1.35
29	B1	3184	A	C6-N1	-12.55	1.26	1.35
29	B1	308	A	C6-N1	-11.80	1.27	1.35
29	D1	2845	A	C6-N1	-11.64	1.27	1.35
29	B1	1951	C	C4-N4	-11.40	1.23	1.33
29	D1	3184	A	C6-N1	-11.23	1.27	1.35
29	D1	1951	C	C4-N4	-11.22	1.23	1.33
29	B1	2845	A	C6-N1	-11.09	1.27	1.35
29	D1	607	A	N9-C4	10.74	1.44	1.37
1	A1	1421	A	N9-C4	10.64	1.44	1.37
29	D1	1884	A	C6-N1	-10.64	1.28	1.35
29	D1	3176	G	N9-C4	-10.62	1.29	1.38
30	D2	13	A	N9-C4	-10.46	1.31	1.37
29	B1	2663	G	C6-N1	-10.41	1.32	1.39
29	B1	3176	G	N9-C4	-10.33	1.29	1.38
29	B1	505	G	N9-C4	-10.28	1.29	1.38
29	B1	1884	A	C6-N1	-10.08	1.28	1.35
29	B1	3243	A	N9-C4	10.08	1.43	1.37
29	B1	2520	A	C6-N1	-10.00	1.28	1.35
29	D1	505	G	N9-C4	-9.88	1.30	1.38
1	A1	825	U	C2-O2	-9.58	1.13	1.22
29	B1	588	G	C6-N1	-9.46	1.32	1.39
1	C1	825	U	C2-O2	-9.38	1.14	1.22
29	B1	45	A	N9-C4	-9.27	1.32	1.37
29	B1	607	A	N9-C4	9.24	1.43	1.37
29	D1	505	G	N3-C4	-9.20	1.29	1.35
30	D2	46	A	N9-C4	9.07	1.43	1.37
29	B1	2358	A	N9-C4	-8.98	1.32	1.37
1	C1	1421	A	N9-C4	8.97	1.43	1.37
29	D1	2362	C	N3-C4	-8.96	1.27	1.33
29	B1	505	G	N3-C4	-8.92	1.29	1.35
29	D1	3243	A	N3-C4	8.90	1.40	1.34
30	B2	13	A	N9-C4	-8.89	1.32	1.37
29	D1	2643	A	N9-C4	-8.74	1.32	1.37
29	D1	2377	G	N9-C4	-8.73	1.30	1.38
29	B1	2662	G	C6-N1	-8.72	1.33	1.39
29	D1	518	G	N9-C4	-8.66	1.31	1.38
29	D1	1317	A	C5-C6	-8.64	1.33	1.41
29	D1	2520	A	C6-N1	-8.60	1.29	1.35
29	B1	1887	A	N9-C4	-8.57	1.32	1.37
29	D1	513	G	N9-C4	-8.54	1.31	1.38
29	D1	647	A	N9-C4	-8.43	1.32	1.37

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	588	G	N3-C4	-8.37	1.29	1.35
29	B1	2636	A	N3-C4	-8.29	1.29	1.34
29	B1	2377	G	N3-C4	-8.21	1.29	1.35
29	B1	1158	A	N9-C4	-8.07	1.33	1.37
29	D1	1099	A	N9-C4	-8.06	1.33	1.37
29	B1	2601	A	N9-C4	-8.00	1.33	1.37
29	D1	1363	A	N9-C4	-7.98	1.33	1.37
29	D1	1381	A	N9-C4	-7.97	1.33	1.37
29	D1	94	G	N9-C4	-7.96	1.31	1.38
29	B1	2362	C	N3-C4	-7.88	1.28	1.33
29	B1	1381	A	N9-C4	-7.85	1.33	1.37
29	D1	45	A	N9-C4	-7.83	1.33	1.37
29	B1	1363	A	N9-C4	-7.83	1.33	1.37
29	D1	3370	A	N9-C4	-7.82	1.33	1.37
29	B1	1319	G	N9-C4	-7.75	1.31	1.38
29	D1	422	A	C5-C4	-7.72	1.33	1.38
29	B1	1482	A	N9-C4	7.64	1.42	1.37
29	D1	424	G	N7-C5	-7.56	1.34	1.39
29	B1	2377	G	N9-C4	-7.53	1.31	1.38
29	D1	1006	A	N3-C4	-7.51	1.30	1.34
29	D1	746	A	N9-C4	7.50	1.42	1.37
29	B1	3139	A	N9-C4	-7.42	1.33	1.37
29	D1	1915	A	N9-C4	-7.42	1.33	1.37
29	B1	652	G	C6-N1	-7.38	1.34	1.39
29	B1	1148	G	N7-C5	-7.37	1.34	1.39
29	D1	1317	A	N9-C4	-7.37	1.33	1.37
29	B1	3000	A	N9-C4	-7.33	1.33	1.37
29	B1	2969	A	N9-C4	-7.26	1.33	1.37
29	B1	1507	G	N9-C4	-7.25	1.32	1.38
29	B1	3323	A	N9-C4	-7.24	1.33	1.37
29	D1	3376	A	N9-C4	7.21	1.42	1.37
29	D1	3024	A	N9-C4	-7.20	1.33	1.37
29	B1	965	A	N9-C4	-7.19	1.33	1.37
29	B1	26	A	N9-C4	7.18	1.42	1.37
29	B1	1303	A	N9-C4	-7.16	1.33	1.37
29	D1	3139	A	N9-C4	-7.15	1.33	1.37
29	B1	513	G	N1-C2	-7.14	1.32	1.37
29	D1	3323	A	N9-C4	-7.14	1.33	1.37
30	B2	13	A	C2-N3	-7.11	1.27	1.33
29	B1	3273	A	N9-C4	7.11	1.42	1.37
30	B2	46	A	N9-C4	7.06	1.42	1.37
29	D1	3141	A	N9-C4	7.03	1.42	1.37

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	537	A	C6-N1	-7.02	1.30	1.35
29	B1	3396	U	N1-C2	7.01	1.44	1.38
29	D1	1148	G	N7-C5	-7.00	1.35	1.39
29	B1	70	A	N9-C4	7.00	1.42	1.37
29	D1	422	A	N3-C4	-7.00	1.30	1.34
29	D1	3176	G	N3-C4	-7.00	1.30	1.35
29	D1	513	G	C2-N2	-6.97	1.27	1.34
29	B1	537	A	C6-N1	-6.95	1.30	1.35
29	D1	589	A	N9-C4	6.94	1.42	1.37
29	D1	1041	U	N1-C2	-6.93	1.32	1.38
29	B1	1434	G	C6-N1	6.93	1.44	1.39
29	D1	2362	C	C2-N3	-6.92	1.30	1.35
29	D1	1329	U	N1-C2	-6.92	1.32	1.38
29	D1	1006	A	N9-C4	-6.91	1.33	1.37
29	B1	220	G	N9-C4	-6.88	1.32	1.38
29	D1	1006	A	N7-C5	-6.85	1.35	1.39
29	B1	1371	G	C6-N1	-6.83	1.34	1.39
29	D1	1887	A	N9-C4	-6.81	1.33	1.37
29	B1	3176	G	N3-C4	-6.81	1.30	1.35
29	D1	424	G	C5-C6	-6.81	1.35	1.42
29	B1	657	A	N9-C4	-6.80	1.33	1.37
29	B1	638	C	N1-C6	-6.79	1.33	1.37
29	B1	513	G	N9-C4	-6.77	1.32	1.38
30	D2	66	A	N9-C4	-6.76	1.33	1.37
29	B1	1190	A	N9-C4	6.74	1.41	1.37
29	D1	514	G	N9-C4	-6.74	1.32	1.38
29	D1	2377	G	N3-C4	-6.70	1.30	1.35
29	B1	882	A	C6-N1	-6.69	1.30	1.35
29	D1	1507	G	N9-C4	-6.69	1.32	1.38
29	B1	3243	A	N3-C4	6.68	1.38	1.34
29	B1	3008	A	N9-C4	-6.66	1.33	1.37
29	B1	2362	C	C2-N3	-6.64	1.30	1.35
29	D1	513	G	N1-C2	-6.64	1.32	1.37
1	A1	391	A	N9-C4	-6.63	1.33	1.37
29	D1	904	A	N9-C4	-6.61	1.33	1.37
29	D1	1143	A	N9-C4	-6.60	1.33	1.37
29	D1	2667	A	N9-C4	6.59	1.41	1.37
29	B1	417	A	N9-C4	-6.58	1.33	1.37
29	D1	3005	A	N3-C4	-6.58	1.30	1.34
29	D1	3180	A	N9-C4	6.56	1.41	1.37
29	D1	513	G	C2-N3	-6.56	1.27	1.32
1	A1	243	G	C1'-N9	-6.55	1.37	1.46

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	1148	G	C5-C6	-6.55	1.35	1.42
29	D1	2887	A	N9-C4	-6.55	1.33	1.37
29	B1	89	A	C5-C6	-6.54	1.35	1.41
29	D1	941	G	N1-C2	-6.53	1.32	1.37
29	D1	1303	A	N9-C4	-6.52	1.33	1.37
30	B2	96	U	C2-N3	-6.52	1.33	1.37
29	D1	2296	A	N3-C4	-6.49	1.30	1.34
29	B1	1410	U	C2-N3	-6.48	1.33	1.37
29	D1	417	A	N9-C4	-6.48	1.33	1.37
29	B1	421	G	N3-C4	-6.44	1.30	1.35
1	C1	939	A	N9-C4	6.44	1.41	1.37
29	B1	513	G	C2-N2	-6.42	1.28	1.34
29	B1	3176	G	C2-N3	-6.40	1.27	1.32
29	D1	518	G	N3-C4	-6.40	1.30	1.35
29	D1	422	A	N9-C4	-6.39	1.34	1.37
29	B1	2642	A	N3-C4	-6.36	1.31	1.34
29	B1	715	A	N9-C4	6.36	1.41	1.37
29	D1	1150	A	N9-C4	-6.36	1.34	1.37
29	D1	1147	G	C5-C6	-6.34	1.36	1.42
29	D1	3137	C	N3-C4	-6.34	1.29	1.33
29	D1	70	A	N9-C4	6.34	1.41	1.37
29	B1	2360	C	N1-C6	-6.30	1.33	1.37
29	B1	1503	A	N9-C4	-6.30	1.34	1.37
29	B1	357	A	N9-C4	-6.29	1.34	1.37
29	D1	509	U	N1-C2	6.28	1.44	1.38
29	D1	2296	A	N9-C4	-6.28	1.34	1.37
29	B1	2961	G	N9-C4	6.28	1.43	1.38
29	D1	505	G	C2-N3	-6.27	1.27	1.32
29	D1	2835	U	C4-C5	-6.26	1.38	1.43
29	B1	1148	G	N9-C4	-6.26	1.32	1.38
29	D1	3212	C	N3-C4	-6.26	1.29	1.33
1	C1	243	G	C1'-N9	-6.25	1.38	1.46
29	B1	34	A	N3-C4	-6.23	1.31	1.34
29	D1	1951	C	N3-C4	6.22	1.38	1.33
29	D1	3376	A	N7-C5	6.22	1.43	1.39
29	B1	899	U	C2-N3	-6.22	1.33	1.37
29	B1	3177	G	N3-C4	-6.21	1.31	1.35
29	B1	1097	G	C5-C6	6.21	1.48	1.42
29	D1	3322	A	N9-C4	-6.21	1.34	1.37
31	B3	34	U	N1-C2	6.20	1.44	1.38
29	B1	3210	A	N9-C4	-6.19	1.34	1.37
29	D1	3210	A	N9-C4	-6.19	1.34	1.37

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	718	G	N9-C4	6.19	1.43	1.38
29	D1	3176	G	C6-N1	-6.18	1.35	1.39
29	B1	1061	A	N9-C4	-6.18	1.34	1.37
29	B1	513	G	C2-N3	-6.17	1.27	1.32
29	D1	3177	G	N3-C4	-6.16	1.31	1.35
29	B1	3173	G	N9-C4	-6.16	1.33	1.38
29	D1	746	A	O3'-P	6.16	1.68	1.61
29	D1	3113	A	N9-C4	-6.16	1.34	1.37
30	D2	113	C	N1-C6	-6.15	1.33	1.37
29	D1	2358	A	N9-C4	-6.15	1.34	1.37
29	D1	706	A	N9-C4	-6.14	1.34	1.37
29	B1	1951	C	N3-C4	6.13	1.38	1.33
29	B1	2662	G	C6-O6	-6.12	1.18	1.24
29	D1	1317	A	N7-C5	-6.11	1.35	1.39
29	B1	2939	G	C6-N1	-6.11	1.35	1.39
29	B1	505	G	C2-N3	-6.11	1.27	1.32
29	B1	2283	G	N9-C8	6.11	1.42	1.37
29	D1	39	A	N9-C4	-6.10	1.34	1.37
29	D1	389	A	C6-N1	-6.10	1.31	1.35
29	B1	590	G	N9-C4	-6.10	1.33	1.38
29	B1	1506	A	C5-C6	-6.10	1.35	1.41
29	D1	189	G	C6-N1	-6.09	1.35	1.39
29	B1	3391	A	C6-N1	6.08	1.39	1.35
29	D1	3178	A	N9-C4	-6.07	1.34	1.37
29	D1	1174	G	N1-C2	-6.07	1.32	1.37
29	D1	2296	A	N7-C5	-6.06	1.35	1.39
29	D1	965	A	N9-C4	-6.05	1.34	1.37
29	D1	1911	A	N9-C4	-6.05	1.34	1.37
29	B1	60	A	N9-C4	-6.05	1.34	1.37
29	B1	94	G	N9-C4	-6.05	1.33	1.38
31	D3	3	A	N9-C4	-6.04	1.34	1.37
29	B1	3141	A	N9-C4	6.04	1.41	1.37
29	D1	1371	G	C6-N1	-6.02	1.35	1.39
29	B1	1610	G	C5-C6	-6.02	1.36	1.42
1	C1	1132	A	N9-C4	-6.00	1.34	1.37
29	D1	3035	A	N9-C4	6.00	1.41	1.37
29	D1	2601	A	N9-C4	-5.99	1.34	1.37
29	D1	1126	G	C6-N1	-5.98	1.35	1.39
29	D1	3168	A	C6-N1	-5.98	1.31	1.35
29	D1	2951	G	N9-C4	-5.97	1.33	1.38
29	D1	3219	G	C5-C6	-5.97	1.36	1.42
29	D1	1006	A	C6-N1	-5.97	1.31	1.35

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	826	G	C5-C4	-5.96	1.34	1.38
29	B1	1410	U	C4-O4	-5.96	1.18	1.23
29	B1	428	A	N7-C5	-5.95	1.35	1.39
1	C1	1137	A	N9-C4	-5.95	1.34	1.37
29	D1	646	A	N9-C4	-5.94	1.34	1.37
1	A1	1030	A	N9-C4	-5.94	1.34	1.37
29	D1	2302	G	N9-C4	-5.94	1.33	1.38
29	B1	3266	G	N3-C4	5.93	1.39	1.35
29	D1	2831	G	C5-C4	-5.93	1.34	1.38
29	D1	1172	G	N9-C8	-5.92	1.33	1.37
29	D1	666	A	N9-C4	-5.92	1.34	1.37
29	B1	1157	G	N3-C4	-5.92	1.31	1.35
31	B3	33	A	N9-C4	-5.92	1.34	1.37
29	D1	3137	C	C2-N3	-5.92	1.31	1.35
29	B1	666	A	N9-C4	-5.91	1.34	1.37
29	B1	746	A	O3'-P	5.90	1.68	1.61
29	B1	628	A	N9-C4	-5.90	1.34	1.37
29	B1	3230	G	C6-N1	-5.89	1.35	1.39
29	B1	2642	A	N9-C4	-5.89	1.34	1.37
29	B1	2956	A	N7-C5	-5.89	1.35	1.39
29	D1	3386	G	N7-C5	-5.89	1.35	1.39
29	D1	3297	U	N1-C2	5.88	1.43	1.38
1	A1	337	G	C5-C6	-5.88	1.36	1.42
29	B1	421	G	N7-C5	-5.88	1.35	1.39
29	B1	2663	G	C6-O6	-5.88	1.18	1.24
1	C1	129	U	C1'-N1	5.88	1.57	1.48
29	B1	2737	C	N1-C6	-5.87	1.33	1.37
29	B1	746	A	N9-C4	5.86	1.41	1.37
29	B1	3177	G	N9-C4	-5.85	1.33	1.38
29	D1	1433	A	N3-C4	-5.85	1.31	1.34
29	D1	2670	G	C6-N1	-5.85	1.35	1.39
29	D1	2918	G	N1-C2	-5.85	1.33	1.37
29	B1	272	G	C6-N1	-5.84	1.35	1.39
29	D1	994	G	N9-C8	-5.84	1.33	1.37
29	D1	1179	A	N7-C5	-5.83	1.35	1.39
29	B1	3074	G	C6-N1	-5.83	1.35	1.39
29	B1	219	A	N9-C4	-5.81	1.34	1.37
29	B1	3297	U	N1-C2	5.80	1.43	1.38
29	B1	3322	A	N9-C4	-5.80	1.34	1.37
1	C1	1030	A	N9-C4	-5.80	1.34	1.37
29	B1	589	A	N9-C4	5.80	1.41	1.37
29	B1	875	G	C6-N1	-5.80	1.35	1.39

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	3218	A	N9-C4	5.79	1.41	1.37
29	D1	513	G	C6-N1	-5.79	1.35	1.39
29	D1	99	A	N3-C4	-5.79	1.31	1.34
29	D1	3244	A	N7-C5	5.79	1.42	1.39
29	D1	1174	G	N3-C4	-5.78	1.31	1.35
1	C1	635	A	N9-C4	-5.78	1.34	1.37
30	B2	66	A	N9-C4	-5.77	1.34	1.37
29	D1	1320	C	N1-C6	-5.77	1.33	1.37
1	C1	62	A	P-OP2	-5.76	1.39	1.49
29	D1	1318	A	C5-C4	-5.76	1.34	1.38
29	B1	103	G	C6-N1	5.75	1.43	1.39
29	B1	916	G	N7-C5	-5.75	1.35	1.39
29	B1	841	A	N9-C4	5.74	1.41	1.37
29	B1	2172	A	N9-C4	-5.74	1.34	1.37
30	D2	108	A	N9-C4	-5.73	1.34	1.37
29	D1	2670	G	N3-C4	-5.73	1.31	1.35
29	D1	2706	G	C6-N1	-5.72	1.35	1.39
29	B1	3009	G	N3-C4	-5.72	1.31	1.35
1	A1	572	C	N1-C2	5.72	1.45	1.40
1	C1	326	G	C6-N1	-5.72	1.35	1.39
29	B1	1150	A	N9-C4	-5.71	1.34	1.37
29	B1	2396	G	N7-C5	-5.71	1.35	1.39
31	B3	97	A	N9-C4	-5.70	1.34	1.37
29	D1	1156	C	N1-C6	-5.70	1.33	1.37
1	A1	1455	G	C5-C6	5.70	1.48	1.42
29	D1	1928	G	N9-C4	-5.70	1.33	1.38
29	D1	996	A	N9-C4	-5.69	1.34	1.37
30	B2	5	G	N9-C4	-5.68	1.33	1.38
1	C1	621	A	C5-C4	-5.68	1.34	1.38
29	D1	2317	A	N3-C4	-5.68	1.31	1.34
29	D1	3391	A	C6-N1	5.68	1.39	1.35
29	D1	1892	G	N3-C4	-5.67	1.31	1.35
29	D1	1188	U	C2-N3	-5.67	1.33	1.37
29	B1	425	G	C6-N1	-5.67	1.35	1.39
1	C1	373	G	N9-C4	-5.66	1.33	1.38
29	B1	630	A	C5-C6	-5.66	1.35	1.41
29	D1	507	U	C2-N3	-5.66	1.33	1.37
1	C1	1602	C	N1-C6	-5.65	1.33	1.37
29	D1	1150	A	N3-C4	-5.65	1.31	1.34
29	D1	2150	G	C6-N1	-5.64	1.35	1.39
29	B1	357	A	N3-C4	-5.64	1.31	1.34
31	B3	3	A	N9-C4	-5.64	1.34	1.37

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	590	G	N9-C4	-5.63	1.33	1.38
29	B1	644	G	N3-C4	-5.62	1.31	1.35
29	D1	3272	C	N3-C4	5.62	1.37	1.33
29	D1	2380	U	N1-C2	-5.62	1.33	1.38
1	A1	337	G	N7-C5	-5.62	1.35	1.39
29	B1	1059	G	N9-C4	-5.62	1.33	1.38
29	B1	517	G	N3-C4	-5.61	1.31	1.35
29	D1	1174	G	C5-C4	-5.60	1.34	1.38
30	D2	103	A	N9-C4	-5.59	1.34	1.37
1	C1	592	A	N9-C4	-5.59	1.34	1.37
29	B1	341	G	N7-C5	-5.59	1.35	1.39
29	B1	1156	C	N1-C6	-5.59	1.33	1.37
29	B1	1377	G	C6-N1	-5.59	1.35	1.39
30	D2	13	A	C2-N3	-5.59	1.28	1.33
29	B1	2357	A	N3-C4	-5.58	1.31	1.34
29	B1	2123	G	C6-N1	-5.58	1.35	1.39
29	D1	941	G	N3-C4	-5.58	1.31	1.35
30	D2	113	C	N3-C4	-5.57	1.30	1.33
29	B1	1175	C	C2-N3	-5.57	1.31	1.35
29	B1	2958	A	N9-C4	-5.56	1.34	1.37
29	B1	2990	G	C5-C6	-5.56	1.36	1.42
29	D1	1380	G	N3-C4	-5.55	1.31	1.35
29	B1	39	A	N9-C4	-5.55	1.34	1.37
29	B1	3103	A	N9-C4	5.55	1.41	1.37
29	D1	94	G	N3-C4	-5.54	1.31	1.35
29	B1	2951	G	N9-C4	-5.54	1.33	1.38
29	D1	512	U	C4-O4	5.53	1.28	1.23
29	B1	996	A	N9-C4	-5.53	1.34	1.37
31	B3	131	A	N9-C4	-5.53	1.34	1.37
1	C1	1550	A	N9-C4	-5.53	1.34	1.37
29	D1	647	A	N3-C4	-5.53	1.31	1.34
29	B1	2327	U	C2-N3	-5.53	1.33	1.37
29	B1	941	G	N1-C2	-5.52	1.33	1.37
29	D1	2689	A	N9-C4	5.52	1.41	1.37
29	B1	660	A	N9-C4	-5.51	1.34	1.37
29	D1	3342	A	C6-N6	-5.50	1.29	1.33
29	B1	685	G	C6-N1	-5.49	1.35	1.39
29	D1	2333	C	N1-C6	-5.47	1.33	1.37
29	B1	783	A	P-O5'	5.46	1.65	1.59
29	B1	3035	A	N9-C4	5.46	1.41	1.37
29	B1	588	G	N1-C2	-5.45	1.33	1.37
29	B1	1901	A	N3-C4	-5.45	1.31	1.34

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	662	U	C2-N3	-5.45	1.33	1.37
29	D1	1151	U	C2-N3	5.44	1.41	1.37
29	D1	1152	G	N9-C4	-5.44	1.33	1.38
29	B1	103	G	N9-C4	-5.44	1.33	1.38
29	B1	1401	A	N9-C4	-5.44	1.34	1.37
29	D1	2294	U	C2-N3	-5.44	1.33	1.37
29	B1	2991	A	N9-C4	-5.43	1.34	1.37
29	B1	2663	G	C5-C4	-5.43	1.34	1.38
29	D1	3124	G	N7-C5	-5.43	1.35	1.39
29	B1	904	A	N9-C4	-5.43	1.34	1.37
29	D1	1188	U	N3-C4	-5.43	1.33	1.38
1	A1	1421	A	N3-C4	5.42	1.38	1.34
29	B1	2147	A	N9-C4	-5.42	1.34	1.37
29	B1	2902	A	N9-C4	-5.42	1.34	1.37
29	B1	1891	A	C5-C6	-5.42	1.36	1.41
29	D1	2919	A	N7-C5	-5.41	1.36	1.39
29	D1	88	A	N9-C4	-5.41	1.34	1.37
30	B2	55	A	N9-C4	5.41	1.41	1.37
29	B1	48	A	N9-C4	-5.40	1.34	1.37
29	D1	595	G	C5-C6	-5.40	1.36	1.42
29	D1	3017	A	C6-N1	-5.40	1.31	1.35
29	D1	3040	A	N3-C4	-5.40	1.31	1.34
1	A1	45	U	C5-C6	-5.40	1.29	1.34
29	D1	994	G	C5-C4	-5.40	1.34	1.38
29	D1	2892	A	N9-C4	-5.40	1.34	1.37
29	D1	747	A	O3'-P	5.39	1.67	1.61
29	D1	370	U	N1-C2	-5.39	1.33	1.38
29	B1	3307	A	N9-C4	-5.38	1.34	1.37
29	D1	1381	A	N3-C4	-5.38	1.31	1.34
29	B1	389	A	C6-N1	-5.38	1.31	1.35
29	B1	1401	A	C6-N1	-5.38	1.31	1.35
29	B1	1151	U	C4-O4	5.38	1.27	1.23
29	B1	1915	A	N3-C4	-5.38	1.31	1.34
29	B1	390	G	N9-C4	-5.37	1.33	1.38
29	B1	651	G	N3-C4	-5.37	1.31	1.35
29	D1	1322	U	C4-O4	5.37	1.27	1.23
29	D1	95	A	N9-C4	-5.37	1.34	1.37
29	B1	2341	A	N9-C4	-5.37	1.34	1.37
29	B1	2320	A	N9-C4	-5.36	1.34	1.37
29	B1	654	C	N1-C6	-5.36	1.33	1.37
29	D1	3295	A	N9-C4	-5.36	1.34	1.37
29	B1	2358	A	N3-C4	-5.36	1.31	1.34

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	610	G	N7-C5	-5.36	1.36	1.39
29	D1	3173	G	N9-C4	-5.36	1.33	1.38
1	C1	45	U	C2-N3	5.35	1.41	1.37
29	B1	2968	G	C6-N1	-5.35	1.35	1.39
29	D1	2879	C	N1-C2	-5.34	1.34	1.40
29	D1	2895	G	N3-C4	-5.34	1.31	1.35
29	B1	1371	G	C6-O6	-5.34	1.19	1.24
29	B1	505	G	C5-C4	-5.33	1.34	1.38
1	A1	426	G	C6-N1	-5.33	1.35	1.39
29	B1	3266	G	C5-C6	5.33	1.47	1.42
29	B1	1333	C	N1-C6	-5.33	1.33	1.37
29	D1	2916	U	C2-N3	5.33	1.41	1.37
29	B1	1205	A	N3-C4	-5.32	1.31	1.34
29	D1	2667	A	P-O5'	5.32	1.65	1.59
29	B1	2520	A	N1-C2	-5.32	1.29	1.34
1	A1	127	G	C1'-N9	-5.31	1.39	1.46
29	D1	1327	C	N3-C4	-5.31	1.30	1.33
29	D1	746	A	N3-C4	5.31	1.38	1.34
29	D1	417	A	N3-C4	-5.30	1.31	1.34
29	D1	2757	U	N1-C2	-5.30	1.33	1.38
1	A1	1746	A	N9-C4	-5.29	1.34	1.37
29	B1	2932	U	C2-N3	-5.28	1.34	1.37
29	B1	2357	A	C6-N1	-5.28	1.31	1.35
30	D2	64	A	N9-C4	5.27	1.41	1.37
29	B1	3122	A	N9-C4	-5.26	1.34	1.37
29	B1	514	G	N9-C4	-5.26	1.33	1.38
29	B1	1319	G	C5-C4	-5.26	1.34	1.38
29	B1	500	C	C2-O2	-5.26	1.19	1.24
29	B1	3168	A	C6-N1	-5.26	1.31	1.35
29	B1	1157	G	C6-N1	-5.25	1.35	1.39
29	B1	1444	G	N7-C5	-5.25	1.36	1.39
29	D1	2957	G	N9-C4	-5.25	1.33	1.38
29	B1	374	A	N9-C4	-5.24	1.34	1.37
29	B1	1751	G	N9-C4	5.23	1.42	1.38
29	B1	2279	A	N7-C5	-5.23	1.36	1.39
29	D1	2665	U	C2-N3	-5.23	1.34	1.37
29	B1	209	A	N3-C4	-5.23	1.31	1.34
29	D1	2876	C	N1-C6	-5.23	1.34	1.37
29	D1	512	U	N3-C4	5.22	1.43	1.38
1	A1	555	A	N9-C4	5.22	1.41	1.37
29	B1	357	A	C6-N1	-5.22	1.31	1.35
29	B1	2643	A	N9-C4	-5.22	1.34	1.37

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	615	A	N9-C4	5.21	1.41	1.37
29	B1	714	G	N9-C4	-5.21	1.33	1.38
29	B1	985	U	P-O5'	-5.21	1.54	1.59
29	B1	1891	A	N7-C5	-5.21	1.36	1.39
1	A1	453	U	P-OP1	-5.21	1.40	1.49
29	D1	3218	A	N9-C4	5.21	1.41	1.37
29	B1	1148	G	N3-C4	-5.19	1.31	1.35
29	D1	423	A	P-O5'	5.19	1.65	1.59
29	D1	1302	A	C5-C4	-5.19	1.35	1.38
29	D1	3266	G	N3-C4	5.19	1.39	1.35
29	D1	1174	G	C6-N1	-5.18	1.35	1.39
29	D1	2914	G	C6-N1	-5.18	1.35	1.39
31	B3	37	A	N9-C4	-5.18	1.34	1.37
29	D1	1099	A	N3-C4	-5.18	1.31	1.34
1	C1	127	G	C1'-N9	-5.17	1.39	1.46
29	B1	1898	G	N3-C4	-5.17	1.31	1.35
29	B1	900	G	N9-C8	-5.16	1.34	1.37
14	CM	60	SER	CA-CB	-5.16	1.45	1.52
29	B1	2302	G	C6-N1	-5.15	1.35	1.39
29	B1	2369	G	N7-C5	-5.15	1.36	1.39
29	D1	3366	G	N9-C4	-5.15	1.33	1.38
1	C1	453	U	P-OP2	-5.15	1.40	1.49
30	D2	117	A	N9-C4	-5.14	1.34	1.37
29	D1	1434	G	N9-C4	-5.14	1.33	1.38
29	D1	2300	G	N9-C8	-5.14	1.34	1.37
29	B1	651	G	N1-C2	-5.13	1.33	1.37
29	B1	3314	A	N9-C4	5.13	1.41	1.37
29	D1	1212	A	C6-N1	-5.13	1.31	1.35
29	D1	2913	C	N1-C2	-5.13	1.35	1.40
29	D1	3303	G	N9-C4	5.13	1.42	1.38
29	D1	3053	G	N3-C4	-5.13	1.31	1.35
29	D1	3024	A	N3-C4	-5.13	1.31	1.34
1	C1	1110	G	C6-N1	-5.13	1.35	1.39
29	D1	3266	G	C2-N3	5.13	1.36	1.32
1	C1	342	C	N1-C6	-5.13	1.34	1.37
1	A1	95	G	N9-C4	-5.12	1.33	1.38
29	B1	513	G	N3-C4	-5.12	1.31	1.35
29	D1	3036	G	C6-N1	-5.12	1.35	1.39
29	D1	3266	G	C5-C6	5.12	1.47	1.42
29	B1	651	G	N9-C4	-5.11	1.33	1.38
29	B1	949	C	N3-C4	-5.11	1.30	1.33
29	B1	1915	A	N9-C4	-5.11	1.34	1.37

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	DP	167	TYR	CA-CB	-5.11	1.42	1.53
29	B1	2910	A	C5-C4	-5.11	1.35	1.38
29	B1	3029	A	N9-C4	-5.11	1.34	1.37
1	C1	336	G	C6-N1	-5.11	1.35	1.39
29	B1	3009	G	N9-C4	-5.10	1.33	1.38
29	D1	2856	G	C5-C6	-5.10	1.37	1.42
29	B1	3032	A	N9-C4	-5.10	1.34	1.37
29	B1	1429	G	N1-C2	-5.10	1.33	1.37
29	B1	1318	A	C5-C4	-5.09	1.35	1.38
29	D1	1312	C	C2-O2	-5.08	1.19	1.24
29	D1	2390	A	N3-C4	-5.08	1.31	1.34
29	D1	1156	C	C4-C5	-5.08	1.38	1.43
29	D1	783	A	P-O5'	5.08	1.64	1.59
29	D1	2913	C	C2-N3	-5.08	1.31	1.35
29	B1	3342	A	C6-N6	-5.07	1.29	1.33
29	D1	1318	A	N3-C4	-5.07	1.31	1.34
29	B1	1330	A	N9-C4	-5.07	1.34	1.37
29	B1	750	G	C5-C6	5.07	1.47	1.42
29	D1	1179	A	C5-C6	-5.07	1.36	1.41
29	D1	390	G	N9-C4	-5.07	1.33	1.38
29	D1	2338	C	N3-C4	-5.06	1.30	1.33
29	D1	2377	G	C5-C4	-5.06	1.34	1.38
29	B1	512	U	C4-O4	5.06	1.27	1.23
1	A1	1421	A	C5-C6	5.06	1.45	1.41
29	B1	2830	G	N3-C4	-5.06	1.31	1.35
29	D1	1319	G	N9-C4	-5.06	1.33	1.38
29	B1	3212	C	N1-C2	-5.06	1.35	1.40
29	B1	1506	A	C6-N1	-5.05	1.32	1.35
29	D1	529	A	N9-C4	-5.05	1.34	1.37
29	D1	2986	U	N1-C6	-5.05	1.33	1.38
29	B1	511	G	N9-C4	-5.05	1.33	1.38
29	B1	609	G	C5-C4	5.05	1.41	1.38
29	D1	1380	G	N9-C4	-5.05	1.33	1.38
29	B1	2131	A	N7-C5	-5.04	1.36	1.39
29	D1	1047	A	N3-C4	-5.04	1.31	1.34
29	B1	1197	A	N3-C4	5.04	1.37	1.34
29	B1	3272	C	N3-C4	5.04	1.37	1.33
30	B2	13	A	N1-C2	-5.04	1.29	1.34
29	B1	366	A	N9-C4	-5.03	1.34	1.37
29	D1	2939	G	N1-C2	-5.03	1.33	1.37
29	D1	2389	C	N1-C6	-5.03	1.34	1.37
29	D1	1330	A	N9-C4	-5.03	1.34	1.37

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	863	C	N1-C6	-5.03	1.34	1.37
1	C1	373	G	N3-C4	-5.03	1.31	1.35
29	D1	1067	U	C2-N3	5.02	1.41	1.37
29	B1	1419	A	C6-N1	-5.02	1.32	1.35
1	C1	911	U	P-OP2	-5.02	1.40	1.49
1	C1	869	A	N9-C4	5.02	1.40	1.37
29	D1	3177	G	C6-N1	-5.02	1.36	1.39
29	B1	1410	U	N3-C4	-5.01	1.33	1.38
29	B1	1048	A	N9-C4	-5.01	1.34	1.37
29	B1	1434	G	N1-C2	5.01	1.41	1.37
29	D1	3245	A	C5-C6	-5.01	1.36	1.41
29	D1	2895	G	C6-N1	-5.01	1.36	1.39
29	B1	1098	A	N9-C4	-5.00	1.34	1.37
29	D1	3185	U	C2-N3	-5.00	1.34	1.37

All (7498) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	244	G	N1-C6-O6	43.40	145.94	119.90
29	B1	244	G	N1-C6-O6	41.87	145.02	119.90
29	D1	2845	A	N1-C6-N6	40.75	143.05	118.60
29	D1	2845	A	C6-N1-C2	39.78	142.47	118.60
29	B1	2845	A	N1-C6-N6	39.33	142.20	118.60
29	B1	2845	A	C6-N1-C2	38.60	141.76	118.60
29	D1	2845	A	C5-C6-N1	-36.02	99.69	117.70
29	B1	2845	A	C5-C6-N1	-33.95	100.72	117.70
29	D1	244	G	C5-C6-O6	-33.52	108.49	128.60
29	B1	244	G	C5-C6-O6	-32.38	109.17	128.60
29	B1	3184	A	C5-C6-N1	-31.90	101.75	117.70
1	C1	1455	G	N1-C6-O6	31.77	138.96	119.90
29	B1	2520	A	N1-C6-N6	31.72	137.63	118.60
29	B1	3184	A	N1-C6-N6	31.42	137.45	118.60
29	D1	3184	A	N1-C6-N6	30.18	136.71	118.60
29	D1	2520	A	N1-C6-N6	29.90	136.54	118.60
29	B1	308	A	C5-C6-N1	-29.85	102.78	117.70
29	B1	3184	A	C6-N1-C2	29.39	136.24	118.60
29	B1	1884	A	C5-C6-N1	-28.91	103.25	117.70
29	B1	1884	A	C6-N1-C2	28.79	135.87	118.60
29	D1	3184	A	C5-C6-N1	-28.75	103.32	117.70
1	A1	1455	G	N3-C2-N2	-28.67	99.83	119.90
29	B1	2520	A	C6-N1-C2	28.55	135.73	118.60
1	C1	1455	G	N3-C2-N2	-28.46	99.98	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1455	G	N1-C6-O6	28.06	136.74	119.90
29	D1	3184	A	C6-N1-C2	27.52	135.11	118.60
29	D1	2520	A	C6-N1-C2	26.71	134.62	118.60
29	B1	1884	A	N1-C6-N6	26.19	134.32	118.60
29	B1	308	A	C6-N1-C2	26.12	134.28	118.60
29	D1	1884	A	C6-N1-C2	25.89	134.13	118.60
29	D1	308	A	C5-C6-N1	-25.70	104.85	117.70
1	C1	1455	G	N1-C2-N2	25.68	139.31	116.20
29	D1	1884	A	C5-C6-N1	-25.59	104.90	117.70
29	D1	308	A	C6-N1-C2	25.24	133.74	118.60
29	D1	3212	C	N1-C2-O2	-25.07	103.86	118.90
29	B1	308	A	N1-C6-N6	24.99	133.60	118.60
1	A1	1455	G	N1-C2-N2	23.87	137.69	116.20
29	D1	1884	A	N1-C6-N6	23.83	132.90	118.60
29	D1	308	A	N1-C6-N6	23.49	132.69	118.60
29	D1	2520	A	C5-C6-N1	-22.93	106.23	117.70
29	B1	2845	A	N1-C2-N3	-22.84	117.88	129.30
29	B1	2520	A	C5-C6-N1	-22.45	106.47	117.70
1	C1	1455	G	C5-C6-O6	-22.26	115.24	128.60
29	B1	3212	C	N1-C2-O2	-21.82	105.81	118.90
1	C1	1455	G	C5-C6-N1	-21.57	100.71	111.50
29	D1	2845	A	N1-C2-N3	-21.57	118.52	129.30
29	D1	3176	G	N3-C4-N9	-21.18	113.29	126.00
29	B1	2520	A	N1-C2-N3	-21.05	118.78	129.30
29	B1	3179	U	N3-C4-O4	20.74	133.91	119.40
29	D1	505	G	N3-C2-N2	-20.40	105.62	119.90
29	D1	505	G	N3-C4-N9	-20.21	113.88	126.00
29	D1	272	G	N1-C6-O6	20.16	132.00	119.90
29	B1	2362	C	N1-C2-O2	-19.90	106.96	118.90
29	D1	2520	A	N1-C2-N3	-19.83	119.39	129.30
1	A1	1455	G	C5-C6-O6	-19.72	116.77	128.60
1	A1	1455	G	C5-C6-N1	-19.63	101.69	111.50
29	B1	272	G	N1-C6-O6	19.57	131.64	119.90
29	D1	1884	A	N1-C2-N3	-19.52	119.54	129.30
29	B1	505	G	N3-C2-N2	-19.43	106.30	119.90
29	B1	607	A	C8-N9-C4	-19.38	98.05	105.80
29	B1	505	G	N3-C4-N9	-19.22	114.47	126.00
29	D1	1951	C	N3-C4-C5	-19.21	114.22	121.90
29	D1	3179	U	N3-C4-O4	19.12	132.78	119.40
29	B1	3212	C	C2-N1-C1'	-19.08	97.81	118.80
29	B1	3176	G	N3-C4-N9	-18.90	114.66	126.00
29	B1	1951	C	N3-C4-C5	-18.48	114.51	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1434	G	N1-C6-O6	18.25	130.85	119.90
29	D1	3184	A	N1-C2-N3	-17.93	120.34	129.30
29	B1	3184	A	N1-C2-N3	-17.82	120.39	129.30
29	D1	2362	C	N1-C2-O2	-17.75	108.25	118.90
29	B1	3212	C	C6-N1-C1'	17.66	142.00	120.80
29	D1	308	A	N1-C2-N3	-17.66	120.47	129.30
29	D1	3212	C	C2-N1-C1'	-17.65	99.38	118.80
29	D1	518	G	N3-C4-C5	17.65	137.42	128.60
29	B1	1884	A	N1-C2-N3	-17.17	120.72	129.30
29	D1	1342	C	C6-N1-C2	17.14	127.16	120.30
29	B1	3179	U	N3-C2-O2	17.01	134.11	122.20
29	B1	2362	C	N3-C2-O2	17.00	133.80	121.90
29	B1	3176	G	N3-C4-C5	16.99	137.09	128.60
29	D1	3212	C	C6-N1-C1'	16.91	141.10	120.80
29	D1	1317	A	N1-C6-N6	16.74	128.65	118.60
29	D1	3176	G	N3-C4-C5	16.57	136.88	128.60
29	D1	3243	A	C2-N3-C4	16.55	118.88	110.60
1	C1	1455	G	C6-N1-C2	16.49	135.00	125.10
29	D1	2906	C	N1-C2-O2	-16.39	109.07	118.90
29	B1	3179	U	N1-C2-O2	-16.32	111.38	122.80
1	C1	825	U	N1-C2-N3	16.29	124.68	114.90
29	D1	607	A	C8-N9-C4	-16.27	99.29	105.80
1	C1	45	U	C2-N1-C1'	16.13	137.06	117.70
29	D1	518	G	C2-N3-C4	-16.11	103.85	111.90
29	D1	3025	C	C6-N1-C2	16.05	126.72	120.30
1	A1	825	U	N1-C2-N3	16.02	124.51	114.90
29	B1	3179	U	C5-C4-O4	-15.97	116.32	125.90
29	D1	3168	A	C6-N1-C2	15.88	128.13	118.60
29	B1	503	C	N1-C2-O2	-15.81	109.41	118.90
29	B1	308	A	N1-C2-N3	-15.78	121.41	129.30
29	D1	3179	U	C5-C4-O4	-15.77	116.44	125.90
29	B1	3168	A	C6-N1-C2	15.66	128.00	118.60
29	B1	3168	A	N1-C6-N6	15.61	127.96	118.60
29	D1	3168	A	N1-C6-N6	15.34	127.80	118.60
29	D1	513	G	N3-C4-N9	-15.31	116.81	126.00
29	B1	3257	C	C2-N1-C1'	-15.19	102.09	118.80
1	A1	45	U	C2-N1-C1'	15.19	135.92	117.70
29	D1	244	G	C5-C6-N1	-15.10	103.95	111.50
29	D1	3179	U	N1-C2-O2	-15.02	112.29	122.80
29	D1	505	G	N1-C2-N2	14.86	129.58	116.20
29	B1	606	C	C2-N1-C1'	14.84	135.12	118.80
1	C1	517	U	C2-N1-C1'	-14.80	99.93	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3179	U	N3-C2-O2	14.77	132.54	122.20
29	D1	2681	U	C2-N1-C1'	14.74	135.39	117.70
29	B1	244	G	C5-C6-N1	-14.66	104.17	111.50
29	D1	518	G	N3-C4-N9	-14.64	117.21	126.00
1	A1	1647	U	N3-C2-O2	14.64	132.45	122.20
29	B1	513	G	N3-C4-N9	-14.62	117.23	126.00
29	B1	505	G	N1-C2-N2	14.60	129.34	116.20
29	B1	2681	U	C2-N1-C1'	14.49	135.09	117.70
29	D1	513	G	N3-C4-C5	14.37	135.79	128.60
29	B1	1367	G	C5-C6-N1	-14.33	104.34	111.50
29	B1	102	C	C2-N1-C1'	14.32	134.55	118.80
29	D1	1450	G	N1-C6-O6	14.21	128.42	119.90
29	D1	505	G	N9-C4-C5	14.13	111.05	105.40
29	D1	1187	C	C6-N1-C2	14.11	125.95	120.30
1	A1	517	U	C2-N1-C1'	-14.08	100.80	117.70
29	D1	3219	G	C4-C5-N7	14.04	116.42	110.80
29	D1	1951	C	C2-N3-C4	14.01	126.91	119.90
29	D1	2689	A	C8-N9-C4	-14.00	100.20	105.80
29	B1	1951	C	C2-N3-C4	13.99	126.90	119.90
29	B1	32	U	C2-N1-C1'	-13.96	100.95	117.70
29	B1	577	C	N3-C2-O2	13.93	131.65	121.90
1	C1	1455	G	N1-C2-N3	-13.93	115.54	123.90
29	B1	3219	G	C4-C5-N7	13.83	116.33	110.80
29	D1	32	U	C2-N1-C1'	-13.79	101.16	117.70
1	A1	572	C	N1-C2-O2	13.75	127.15	118.90
29	B1	2689	A	C8-N9-C4	-13.74	100.30	105.80
29	D1	513	G	C2-N3-C4	-13.72	105.04	111.90
29	D1	2879	C	N3-C2-O2	13.69	131.49	121.90
29	B1	3219	G	N1-C6-O6	13.60	128.06	119.90
29	D1	3219	G	N1-C6-O6	13.55	128.03	119.90
1	A1	1437	U	C2-N1-C1'	-13.38	101.64	117.70
1	A1	1455	G	C6-N1-C2	13.37	133.12	125.10
29	D1	1317	A	C4-C5-N7	13.31	117.35	110.70
1	A1	610	G	C6-C5-N7	-13.30	122.42	130.40
29	D1	3176	G	N3-C2-N2	-13.31	110.59	119.90
29	B1	2990	G	N1-C6-O6	13.29	127.88	119.90
29	D1	2362	C	N3-C2-O2	13.29	131.21	121.90
1	C1	1647	U	N3-C2-O2	13.27	131.49	122.20
29	B1	1434	G	C5-C6-N1	-13.27	104.87	111.50
29	B1	32	U	C5-C6-N1	-13.25	116.07	122.70
1	A1	572	C	C2-N1-C1'	13.20	133.31	118.80
29	D1	2681	U	C6-N1-C1'	-13.13	102.81	121.20

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2681	U	C6-N1-C1'	-13.12	102.83	121.20
29	D1	3272	C	C6-N1-C2	-13.11	115.06	120.30
29	D1	514	G	N3-C4-N9	-12.98	118.21	126.00
29	B1	505	G	N3-C4-C5	12.94	135.07	128.60
29	D1	1434	G	N1-C6-O6	12.93	127.66	119.90
29	B1	3168	A	N1-C2-N3	-12.93	122.84	129.30
29	D1	2835	U	C5-C4-O4	-12.90	118.16	125.90
29	D1	606	C	C2-N1-C1'	12.90	132.99	118.80
29	B1	607	A	N7-C8-N9	12.89	120.25	113.80
29	D1	607	A	N7-C8-N9	12.89	120.25	113.80
30	D2	66	A	C6-N1-C2	12.89	126.33	118.60
29	B1	1507	G	N3-C4-C5	12.88	135.04	128.60
29	D1	505	G	N3-C4-C5	12.88	135.04	128.60
1	C1	1647	U	N3-C4-O4	12.87	128.41	119.40
29	B1	3001	C	C6-N1-C2	12.86	125.45	120.30
29	D1	3296	A	N1-C6-N6	12.84	126.30	118.60
1	A1	1647	U	C5-C4-O4	-12.83	118.20	125.90
29	D1	505	G	C5-C6-N1	-12.82	105.09	111.50
29	B1	3296	A	N1-C6-N6	12.81	126.29	118.60
29	B1	102	C	N1-C2-O2	12.79	126.58	118.90
1	A1	1234	A	N1-C6-N6	12.79	126.28	118.60
29	D1	3168	A	C5-C6-N1	-12.79	111.31	117.70
29	B1	1507	G	N3-C4-N9	-12.78	118.33	126.00
29	B1	3243	A	C2-N3-C4	12.77	116.99	110.60
29	B1	2520	A	C5-C6-N6	-12.74	113.50	123.70
1	C1	1647	U	C5-C4-O4	-12.74	118.26	125.90
29	B1	2845	A	C5-C6-N6	-12.71	113.53	123.70
29	D1	556	U	C5-C4-O4	12.66	133.50	125.90
29	D1	1192	C	C2-N1-C1'	12.65	132.72	118.80
29	B1	3297	U	N3-C2-O2	-12.64	113.35	122.20
29	D1	102	C	C2-N1-C1'	12.64	132.70	118.80
29	D1	424	G	C6-C5-N7	-12.60	122.84	130.40
29	B1	505	G	N9-C4-C5	12.60	110.44	105.40
29	D1	2667	A	C2-N3-C4	12.58	116.89	110.60
29	D1	3205	G	N1-C6-O6	-12.56	112.36	119.90
29	B1	3025	C	C6-N1-C2	12.56	125.32	120.30
1	A1	45	U	C5-C4-O4	-12.52	118.39	125.90
29	B1	335	G	N1-C6-O6	12.50	127.40	119.90
30	B2	13	A	C4-C5-C6	-12.50	110.75	117.00
1	A1	1647	U	N3-C4-O4	12.49	128.14	119.40
29	D1	94	G	N3-C4-N9	-12.48	118.51	126.00
29	D1	272	G	C5-C6-N1	-12.46	105.27	111.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1507	G	N3-C4-N9	-12.44	118.53	126.00
29	D1	3257	C	C2-N1-C1'	-12.44	105.12	118.80
1	C1	1234	A	N1-C6-N6	12.41	126.05	118.60
29	B1	577	C	N1-C2-O2	-12.39	111.46	118.90
30	B2	96	U	C5-C6-N1	-12.36	116.52	122.70
29	B1	2906	C	N1-C2-O2	-12.34	111.49	118.90
29	B1	556	U	C5-C4-O4	12.33	133.30	125.90
29	B1	723	U	C5-C4-O4	-12.30	118.52	125.90
29	B1	3192	U	N1-C2-O2	-12.27	114.21	122.80
29	B1	1751	G	N1-C6-O6	-12.26	112.54	119.90
29	B1	2663	G	N1-C6-O6	-12.26	112.54	119.90
29	D1	1190	A	C5-C6-N1	12.26	123.83	117.70
29	D1	3392	U	C2-N3-C4	-12.26	119.65	127.00
29	B1	272	G	C5-C6-N1	-12.25	105.38	111.50
29	B1	3296	A	C5-C6-N6	-12.23	113.92	123.70
29	B1	577	C	N3-C4-N4	12.19	126.53	118.00
29	B1	1097	G	C4-C5-N7	-12.17	105.93	110.80
29	D1	2916	U	C5-C4-O4	-12.17	118.60	125.90
29	D1	1367	G	C5-C6-N1	-12.15	105.43	111.50
1	A1	45	U	C6-N1-C1'	-12.13	104.22	121.20
29	D1	507	U	N3-C2-O2	-12.12	113.72	122.20
29	B1	3176	G	N3-C2-N2	-12.11	111.42	119.90
29	D1	2879	C	N1-C2-O2	-12.10	111.64	118.90
29	D1	3212	C	C2-N3-C4	-12.06	113.87	119.90
29	B1	2958	A	C8-N9-C4	12.02	110.61	105.80
30	D2	112	G	N1-C6-O6	-12.02	112.69	119.90
29	D1	2845	A	C5-C6-N6	-11.99	114.11	123.70
29	D1	3192	U	N1-C2-O2	-11.99	114.41	122.80
29	B1	3392	U	C2-N3-C4	-11.98	119.81	127.00
29	D1	3212	C	N1-C2-N3	11.95	127.57	119.20
29	D1	518	G	C5-C6-N1	-11.94	105.53	111.50
29	D1	3184	A	C5-C6-N6	-11.93	114.15	123.70
29	B1	969	C	C6-N1-C2	11.91	125.06	120.30
29	D1	2358	A	C8-N9-C4	11.90	110.56	105.80
1	A1	610	G	C4-N9-C1'	11.90	141.97	126.50
29	D1	1317	A	N9-C4-C5	-11.89	101.04	105.80
29	D1	963	G	C6-C5-N7	-11.88	123.27	130.40
29	D1	3176	G	C2-N3-C4	-11.84	105.98	111.90
29	B1	1887	A	C2-N3-C4	-11.83	104.69	110.60
1	C1	45	U	C6-N1-C1'	-11.79	104.70	121.20
1	C1	62	A	N1-C6-N6	-11.78	111.53	118.60
29	D1	3297	U	N3-C2-O2	-11.75	113.97	122.20

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	517	U	C6-N1-C1'	11.75	137.65	121.20
29	D1	3303	G	C4-C5-N7	-11.73	106.11	110.80
29	B1	3168	A	C5-C6-N1	-11.73	111.83	117.70
29	D1	389	A	C5-C6-N6	11.72	133.08	123.70
29	B1	588	G	C4-C5-N7	-11.71	106.11	110.80
31	B3	34	U	N3-C2-O2	-11.71	114.00	122.20
1	C1	1437	U	C2-N1-C1'	-11.67	103.69	117.70
29	B1	500	C	C2-N1-C1'	11.67	131.63	118.80
30	B2	66	A	C6-N1-C2	11.66	125.59	118.60
29	D1	1146	C	C6-N1-C2	11.65	124.96	120.30
29	B1	421	G	C6-C5-N7	-11.65	123.41	130.40
1	A1	1455	G	N1-C2-N3	-11.64	116.92	123.90
29	B1	1402	C	C6-N1-C2	11.64	124.95	120.30
29	B1	1151	U	N3-C4-C5	-11.63	107.62	114.60
29	D1	1450	G	C4-C5-N7	11.63	115.45	110.80
29	B1	606	C	N3-C4-N4	11.62	126.14	118.00
29	B1	557	A	C5-C6-N1	-11.61	111.89	117.70
29	D1	3219	G	C5-C6-O6	-11.61	121.64	128.60
29	B1	668	G	C8-N9-C4	11.61	111.04	106.40
29	B1	644	G	C5-C6-N1	-11.60	105.70	111.50
1	A1	62	A	N1-C6-N6	-11.59	111.65	118.60
29	D1	2330	C	C6-N1-C2	11.59	124.94	120.30
29	B1	2395	G	C8-N9-C4	-11.59	101.77	106.40
29	B1	718	G	N3-C4-C5	-11.58	122.81	128.60
29	B1	606	C	C6-N1-C1'	-11.57	106.92	120.80
29	D1	3363	U	N1-C2-O2	11.56	130.90	122.80
29	B1	3257	C	C6-N1-C1'	11.56	134.67	120.80
29	D1	3297	U	C2-N1-C1'	11.55	131.56	117.70
1	A1	437	A	C5-C6-N6	-11.54	114.47	123.70
29	D1	424	G	N1-C6-O6	11.52	126.81	119.90
29	B1	1192	C	C2-N1-C1'	11.51	131.46	118.80
29	B1	2358	A	C8-N9-C4	11.51	110.41	105.80
29	B1	3176	G	C4-N9-C1'	-11.51	111.54	126.50
1	C1	45	U	C5-C4-O4	-11.49	119.01	125.90
29	B1	3177	G	N3-C4-N9	-11.48	119.11	126.00
29	D1	606	C	C6-N1-C1'	-11.48	107.02	120.80
29	D1	1190	A	C2-N3-C4	11.47	116.33	110.60
29	B1	514	G	N3-C4-N9	-11.44	119.14	126.00
29	B1	2667	A	C2-N3-C4	11.44	116.32	110.60
29	D1	3272	C	C5-C6-N1	11.42	126.71	121.00
29	D1	1192	C	C6-N1-C2	-11.41	115.74	120.30
29	D1	3243	A	C5-C6-N6	-11.40	114.58	123.70

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	509	U	N3-C2-O2	-11.40	114.22	122.20
29	D1	2520	A	C5-C6-N6	-11.37	114.60	123.70
29	D1	2906	C	N3-C2-O2	11.36	129.85	121.90
29	D1	1323	G	C8-N9-C4	-11.35	101.86	106.40
29	D1	577	C	N3-C4-N4	11.26	125.88	118.00
29	B1	1148	G	C6-C5-N7	-11.23	123.66	130.40
29	D1	45	A	C8-N9-C4	11.21	110.28	105.80
29	D1	2377	G	N3-C4-N9	-11.21	119.27	126.00
29	B1	389	A	C5-C6-N6	11.20	132.66	123.70
29	D1	3177	G	N9-C4-C5	11.19	109.88	105.40
29	B1	586	C	N1-C2-O2	-11.18	112.19	118.90
29	D1	2682	C	C6-N1-C2	11.17	124.77	120.30
1	A1	1455	G	C4-C5-N7	-11.15	106.34	110.80
29	B1	3268	A	C8-N9-C4	11.14	110.26	105.80
29	D1	2278	C	N1-C2-O2	11.14	125.59	118.90
29	B1	589	A	C8-N9-C4	-11.14	101.34	105.80
29	B1	1506	A	C8-N9-C4	-11.14	101.34	105.80
30	D2	66	A	C5-C6-N1	-11.12	112.14	117.70
29	D1	1175	C	N3-C4-C5	11.12	126.35	121.90
1	C1	572	C	N1-C2-O2	11.10	125.56	118.90
1	A1	337	G	C4-C5-N7	11.10	115.24	110.80
29	B1	32	U	C2-N3-C4	-11.09	120.35	127.00
29	B1	963	G	C6-C5-N7	-11.08	123.75	130.40
29	D1	1147	G	N1-C6-O6	11.06	126.54	119.90
29	B1	338	A	C8-N9-C4	-11.06	101.38	105.80
29	D1	3176	G	N9-C4-C5	11.06	109.82	105.40
29	D1	390	G	N3-C4-N9	-11.05	119.37	126.00
29	D1	3168	A	N1-C2-N3	-11.03	123.79	129.30
30	D2	113	C	C2-N3-C4	-11.03	114.39	119.90
30	D2	112	G	N9-C4-C5	11.02	109.81	105.40
29	D1	1450	G	C6-C5-N7	-11.02	123.79	130.40
30	D2	111	U	C2-N1-C1'	11.02	130.92	117.70
1	A1	437	A	C6-N1-C2	-11.01	111.99	118.60
29	B1	656	A	C5-C6-N1	11.01	123.21	117.70
29	B1	3297	U	C2-N1-C1'	10.99	130.89	117.70
29	B1	644	G	C2-N3-C4	-10.99	106.41	111.90
1	C1	650	U	C5-C4-O4	-10.99	119.31	125.90
29	B1	513	G	C2-N3-C4	-10.97	106.41	111.90
29	D1	3266	G	C2-N3-C4	10.97	117.38	111.90
29	D1	389	A	N1-C6-N6	-10.96	112.02	118.60
29	B1	3184	A	C5-C6-N6	-10.96	114.93	123.70
1	C1	610	G	C4-N9-C1'	10.96	140.75	126.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	503	C	N1-C2-O2	-10.95	112.33	118.90
29	B1	390	G	N3-C4-N9	-10.94	119.44	126.00
29	B1	886	C	C6-N1-C2	10.93	124.67	120.30
29	D1	3177	G	N3-C4-N9	-10.93	119.44	126.00
29	D1	2362	C	C5-C6-N1	-10.93	115.53	121.00
29	B1	1148	G	N1-C6-O6	10.93	126.46	119.90
1	C1	572	C	C2-N1-C1'	10.93	130.82	118.80
29	D1	3176	G	N1-C2-N2	10.91	126.02	116.20
29	B1	1097	G	N9-C4-C5	10.89	109.76	105.40
29	B1	513	G	N3-C4-C5	10.87	134.04	128.60
29	D1	3176	G	C5-C6-N1	-10.87	106.07	111.50
29	D1	2667	A	C5-C6-N1	10.86	123.13	117.70
29	B1	2916	U	C5-C4-O4	-10.86	119.39	125.90
29	D1	2993	G	C5-C6-O6	10.86	135.11	128.60
1	C1	1639	C	C6-N1-C2	10.84	124.64	120.30
29	D1	556	U	N3-C4-O4	-10.84	111.81	119.40
29	D1	847	A	N1-C2-N3	10.84	134.72	129.30
29	D1	3212	C	C5-C6-N1	-10.82	115.59	121.00
30	D2	13	A	C4-C5-C6	-10.82	111.59	117.00
1	A1	1639	C	C6-N1-C2	10.82	124.63	120.30
29	D1	2993	G	C4-C5-N7	-10.81	106.47	110.80
29	B1	612	U	C5-C4-O4	-10.81	119.41	125.90
1	A1	517	U	C6-N1-C1'	10.79	136.31	121.20
1	A1	650	U	C5-C4-O4	-10.79	119.42	125.90
29	B1	3219	G	C6-C5-N7	-10.79	123.93	130.40
30	D2	13	A	N1-C6-N6	-10.78	112.13	118.60
29	B1	3077	A	C8-N9-C4	-10.77	101.49	105.80
29	B1	3090	U	C5-C6-N1	10.77	128.08	122.70
29	D1	3296	A	C5-C6-N6	-10.74	115.10	123.70
29	D1	1507	G	N3-C4-C5	10.74	133.97	128.60
29	B1	3322	A	C6-N1-C2	10.73	125.04	118.60
29	D1	3303	G	N3-C4-C5	-10.73	123.23	128.60
29	B1	3143	C	C5-C6-N1	10.71	126.36	121.00
29	B1	606	C	C5-C4-N4	-10.70	112.71	120.20
29	D1	272	G	C5-C6-O6	-10.68	122.19	128.60
29	B1	638	C	C2-N3-C4	-10.67	114.57	119.90
29	B1	504	A	N1-C6-N6	10.65	124.99	118.60
30	D2	113	C	C5-C6-N1	-10.65	115.68	121.00
1	C1	437	A	C5-C6-N6	-10.64	115.19	123.70
29	D1	2835	U	C5-C6-N1	10.64	128.02	122.70
29	B1	556	U	N3-C4-O4	-10.63	111.96	119.40
31	B3	92	A	C6-N1-C2	10.63	124.98	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2377	G	N3-C4-N9	-10.62	119.63	126.00
29	B1	3266	G	C2-N3-C4	10.62	117.21	111.90
29	B1	640	U	N1-C2-O2	-10.62	115.37	122.80
29	B1	505	G	N1-C6-O6	10.61	126.27	119.90
29	D1	1317	A	C6-C5-N7	-10.61	124.87	132.30
29	D1	3272	C	N3-C4-N4	10.61	125.43	118.00
29	B1	1067	U	C5-C4-O4	-10.60	119.54	125.90
29	B1	94	G	N3-C4-N9	-10.60	119.64	126.00
29	D1	2667	A	N1-C6-N6	-10.60	112.24	118.60
29	B1	588	G	N1-C2-N3	10.60	130.26	123.90
29	D1	577	C	N3-C2-O2	10.58	129.31	121.90
29	B1	3179	U	N3-C4-C5	-10.57	108.26	114.60
1	A1	610	G	C8-N9-C1'	-10.56	113.27	127.00
29	D1	518	G	N1-C6-O6	10.56	126.24	119.90
29	B1	518	G	N3-C4-C5	10.56	133.88	128.60
29	D1	1147	G	C4-C5-N7	10.56	115.02	110.80
31	D3	92	A	C6-N1-C2	10.55	124.93	118.60
29	B1	1190	A	C2-N3-C4	10.54	115.87	110.60
29	B1	500	C	C6-N1-C2	-10.54	116.08	120.30
29	B1	2939	G	C5-C6-O6	10.53	134.92	128.60
29	B1	2331	C	N1-C2-O2	-10.53	112.58	118.90
1	A1	358	U	N3-C2-O2	-10.52	114.84	122.20
1	A1	572	C	C5-C6-N1	10.51	126.25	121.00
29	B1	1917	C	C6-N1-C2	10.50	124.50	120.30
30	B2	13	A	N1-C6-N6	-10.50	112.30	118.60
29	D1	3243	A	N1-C2-N3	-10.50	124.05	129.30
29	D1	3132	C	C6-N1-C2	10.50	124.50	120.30
29	B1	3303	G	N3-C4-C5	-10.49	123.36	128.60
29	B1	3176	G	N1-C2-N2	10.48	125.64	116.20
29	B1	1508	C	C6-N1-C2	-10.48	116.11	120.30
29	D1	1320	C	N3-C4-N4	10.46	125.33	118.00
29	D1	3025	C	C5-C6-N1	-10.46	115.77	121.00
29	D1	2681	U	C5-C4-O4	-10.45	119.63	125.90
29	B1	2993	G	N1-C6-O6	-10.44	113.64	119.90
29	B1	3392	U	C2-N1-C1'	10.44	130.23	117.70
29	B1	963	G	N3-C4-N9	10.43	132.26	126.00
29	B1	1362	G	C8-N9-C4	10.43	110.57	106.40
29	D1	1169	A	N1-C6-N6	-10.43	112.34	118.60
30	B2	15	C	C6-N1-C1'	-10.42	108.29	120.80
29	B1	272	G	C5-C6-O6	-10.41	122.35	128.60
29	D1	2993	G	N9-C4-C5	10.40	109.56	105.40
29	D1	3176	G	C4-N9-C1'	-10.40	112.97	126.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2365	C	C6-N1-C2	10.40	124.46	120.30
29	D1	1317	A	C5-N7-C8	-10.40	98.70	103.90
1	A1	686	C	C2-N3-C4	-10.38	114.71	119.90
29	B1	1525	G	C8-N9-C1'	-10.39	113.50	127.00
29	D1	3137	C	C5-C6-N1	-10.38	115.81	121.00
29	B1	2391	G	C8-N9-C4	10.37	110.55	106.40
29	D1	963	G	C4-C5-N7	10.36	114.94	110.80
29	D1	3257	C	C6-N1-C1'	10.34	133.21	120.80
1	C1	1073	G	N3-C4-N9	10.34	132.20	126.00
29	B1	2195	C	N3-C4-C5	10.33	126.03	121.90
29	B1	421	G	C2-N3-C4	-10.32	106.74	111.90
29	D1	2333	C	C6-N1-C2	10.31	124.43	120.30
1	C1	686	C	C2-N3-C4	-10.31	114.74	119.90
29	D1	2876	C	C5-C6-N1	-10.30	115.85	121.00
29	B1	2990	G	C5-C6-O6	-10.29	122.43	128.60
29	B1	3176	G	C8-N9-C1'	10.28	140.37	127.00
29	B1	3257	C	N1-C2-O2	-10.28	112.73	118.90
29	D1	2913	C	C2-N1-C1'	-10.28	107.50	118.80
29	B1	3223	A	N1-C2-N3	-10.27	124.16	129.30
29	D1	726	G	N3-C4-C5	-10.27	123.46	128.60
29	B1	389	A	N1-C6-N6	-10.27	112.44	118.60
29	B1	1507	G	C8-N9-C1'	10.27	140.35	127.00
29	D1	2664	C	N3-C4-C5	10.25	126.00	121.90
1	A1	437	A	N1-C6-N6	10.25	124.75	118.60
29	B1	3130	A	N1-C6-N6	10.25	124.75	118.60
29	B1	3272	C	C6-N1-C2	-10.24	116.20	120.30
31	D3	34	U	N3-C2-O2	-10.24	115.03	122.20
1	C1	1653	C	C6-N1-C2	10.23	124.39	120.30
29	D1	1507	G	C8-N9-C1'	10.23	140.31	127.00
29	D1	3243	A	N3-C4-N9	10.22	135.58	127.40
29	B1	1148	G	C4-C5-N7	10.21	114.88	110.80
30	B2	112	G	N1-C6-O6	-10.20	113.78	119.90
29	B1	2993	G	N9-C4-C5	10.20	109.48	105.40
1	C1	437	A	C6-N1-C2	-10.20	112.48	118.60
29	B1	379	C	N3-C4-N4	10.19	125.13	118.00
29	D1	500	C	C2-N1-C1'	10.18	130.00	118.80
29	D1	1188	U	N3-C4-O4	-10.17	112.28	119.40
1	C1	869	A	C6-N1-C2	-10.16	112.50	118.60
29	B1	1317	A	N1-C6-N6	10.16	124.69	118.60
29	B1	102	C	C6-N1-C1'	-10.15	108.61	120.80
29	B1	1610	G	C4-C5-N7	10.15	114.86	110.80
29	B1	586	C	N3-C2-O2	10.15	129.01	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2378	C	C6-N1-C2	-10.15	116.24	120.30
29	B1	2879	C	N1-C2-O2	-10.13	112.82	118.90
29	D1	1067	U	C5-C4-O4	-10.13	119.82	125.90
29	D1	3176	G	C5-C6-O6	10.12	134.67	128.60
1	A1	1647	U	N1-C2-O2	-10.10	115.73	122.80
30	B2	96	U	C2-N3-C4	-10.10	120.94	127.00
29	B1	588	G	N9-C4-C5	10.10	109.44	105.40
29	D1	3244	A	C8-N9-C4	10.10	109.84	105.80
29	D1	1302	A	C2-N3-C4	10.09	115.64	110.60
29	B1	1434	G	N9-C4-C5	-10.09	101.37	105.40
29	B1	1434	G	C2-N3-C4	-10.08	106.86	111.90
1	C1	647	G	C6-N1-C2	-10.08	119.05	125.10
1	C1	610	G	C8-N9-C1'	-10.07	113.91	127.00
30	D2	15	C	C2-N1-C1'	10.07	129.88	118.80
34	DC	96	PRO	N-CA-CB	10.07	115.38	103.30
29	B1	3363	U	N1-C2-O2	10.06	129.84	122.80
29	D1	3243	A	N3-C4-C5	-10.06	119.76	126.80
30	D2	66	A	C5-C6-N6	10.05	131.74	123.70
29	B1	589	A	C2-N3-C4	10.05	115.62	110.60
29	B1	428	A	N1-C6-N6	10.05	124.63	118.60
29	D1	272	G	C6-N1-C2	10.04	131.12	125.10
29	B1	2681	U	C5-C4-O4	-10.03	119.88	125.90
29	B1	2289	U	C2-N3-C4	-10.03	120.98	127.00
29	D1	577	C	N1-C2-O2	-10.03	112.89	118.90
29	B1	515	C	N1-C2-O2	-10.02	112.89	118.90
29	B1	3219	G	C5-N7-C8	-10.02	99.29	104.30
29	B1	2993	G	C4-C5-N7	-9.99	106.80	110.80
29	D1	1434	G	C5-C6-N1	-9.99	106.50	111.50
29	B1	2892	A	N1-C6-N6	9.99	124.59	118.60
29	B1	2245	C	C6-N1-C2	-9.99	116.30	120.30
29	B1	1363	A	C8-N9-C4	9.98	109.79	105.80
29	B1	2115	G	C4-C5-N7	9.98	114.79	110.80
1	C1	437	A	N1-C6-N6	9.97	124.58	118.60
29	D1	3322	A	C6-N1-C2	9.97	124.58	118.60
1	A1	647	G	C6-N1-C2	-9.97	119.12	125.10
29	B1	513	G	C5-C6-O6	9.96	134.57	128.60
29	D1	402	A	N1-C6-N6	9.96	124.57	118.60
29	B1	3272	C	C5-C6-N1	9.95	125.98	121.00
29	D1	886	C	C6-N1-C2	9.95	124.28	120.30
29	B1	2689	A	N7-C8-N9	9.95	118.77	113.80
30	D2	15	C	C6-N1-C1'	-9.95	108.86	120.80
29	B1	192	C	N1-C2-O2	-9.95	112.93	118.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	D2	112	G	C4-C5-N7	-9.95	106.82	110.80
29	B1	3244	A	C8-N9-C4	9.94	109.78	105.80
29	B1	1367	G	N1-C6-O6	9.94	125.86	119.90
29	D1	3324	C	N3-C2-O2	-9.94	114.94	121.90
29	D1	515	C	N1-C2-O2	-9.93	112.94	118.90
1	A1	869	A	C6-N1-C2	-9.93	112.64	118.60
1	A1	610	G	N1-C6-O6	9.92	125.85	119.90
29	D1	3298	C	N3-C4-C5	9.91	125.86	121.90
29	D1	505	G	N1-C6-O6	9.90	125.84	119.90
29	D1	379	C	N3-C4-N4	9.90	124.93	118.00
29	D1	593	C	N1-C2-O2	9.89	124.84	118.90
29	B1	676	G	N3-C4-C5	-9.89	123.66	128.60
29	D1	2339	C	N3-C2-O2	-9.89	114.98	121.90
1	C1	825	U	C5-C4-O4	9.89	131.83	125.90
30	D2	13	A	C6-C5-N7	9.88	139.21	132.30
1	C1	825	U	C4-C5-C6	9.86	125.62	119.70
29	B1	370	U	N1-C2-O2	-9.85	115.90	122.80
29	B1	588	G	N1-C6-O6	-9.85	113.99	119.90
29	D1	1151	U	C6-N1-C2	-9.85	115.09	121.00
29	D1	3219	G	N9-C4-C5	-9.85	101.46	105.40
29	D1	3386	G	C6-C5-N7	-9.85	124.49	130.40
29	B1	1175	C	C2-N3-C4	-9.85	114.98	119.90
29	B1	3181	C	C4-C5-C6	-9.84	112.48	117.40
29	B1	73	C	C6-N1-C2	-9.83	116.37	120.30
29	B1	421	G	N1-C6-O6	9.83	125.80	119.90
29	D1	1147	G	C2-N3-C4	-9.83	106.98	111.90
29	D1	2929	C	C5-C4-N4	-9.83	113.32	120.20
29	D1	507	U	N1-C2-O2	9.82	129.68	122.80
29	B1	2391	G	N9-C4-C5	-9.82	101.47	105.40
29	B1	2398	A	N1-C6-N6	9.82	124.49	118.60
29	D1	3198	U	C2-N1-C1'	9.81	129.48	117.70
29	B1	656	A	C6-N1-C2	-9.81	112.72	118.60
29	D1	596	C	C6-N1-C2	-9.81	116.38	120.30
29	B1	1339	C	C6-N1-C2	-9.80	116.38	120.30
1	C1	1463	C	C6-N1-C2	9.80	124.22	120.30
29	B1	853	G	N1-C6-O6	-9.80	114.02	119.90
1	C1	939	A	C8-N9-C4	-9.79	101.89	105.80
29	B1	1056	U	C2-N1-C1'	9.78	129.44	117.70
29	B1	3095	U	N3-C2-O2	9.78	129.04	122.20
29	B1	832	G	N1-C6-O6	9.76	125.76	119.90
29	B1	1877	U	C2-N1-C1'	9.76	129.41	117.70
29	B1	832	G	C5-C6-O6	-9.75	122.75	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1884	A	C5-C6-N6	-9.75	115.90	123.70
30	D2	47	C	C2-N1-C1'	9.75	129.53	118.80
29	D1	513	G	C5-C6-O6	9.75	134.45	128.60
29	B1	1507	G	C4-N9-C1'	-9.75	113.83	126.50
29	D1	3176	G	C8-N9-C1'	9.74	139.66	127.00
29	B1	2283	G	C8-N9-C4	-9.73	102.51	106.40
29	B1	638	C	C5-C6-N1	-9.73	116.13	121.00
29	D1	2671	A	C5-C6-N6	-9.73	115.92	123.70
29	D1	503	C	C2-N3-C4	-9.73	115.04	119.90
29	B1	630	A	N1-C6-N6	9.71	124.43	118.60
29	B1	2377	G	N3-C2-N2	-9.71	113.10	119.90
30	B2	13	A	C6-C5-N7	9.71	139.10	132.30
29	D1	1548	C	C6-N1-C2	9.71	124.18	120.30
29	D1	1047	A	N1-C6-N6	-9.70	112.78	118.60
29	D1	2993	G	N1-C6-O6	-9.69	114.09	119.90
29	D1	1877	U	C2-N1-C1'	9.69	129.33	117.70
29	D1	3227	A	C6-N1-C2	9.69	124.41	118.60
29	D1	1434	G	C2-N3-C4	-9.69	107.06	111.90
29	D1	3137	C	C2-N3-C4	-9.68	115.06	119.90
29	B1	3303	G	C4-C5-N7	-9.68	106.93	110.80
29	B1	3390	G	N3-C4-N9	9.68	131.81	126.00
29	D1	424	G	C4-C5-N7	9.67	114.67	110.80
1	C1	572	C	C6-N1-C1'	-9.66	109.21	120.80
29	B1	1525	G	C4-N9-C1'	9.66	139.05	126.50
1	C1	1045	C	N1-C2-O2	9.66	124.69	118.90
29	D1	2689	A	N7-C8-N9	9.66	118.63	113.80
45	BP	131	PRO	N-CA-CB	9.65	114.89	103.30
29	B1	723	U	C2-N1-C1'	9.65	129.28	117.70
29	B1	3226	A	C5-C6-N6	9.65	131.42	123.70
29	B1	640	U	N3-C4-O4	9.64	126.15	119.40
29	D1	676	G	N3-C4-C5	-9.64	123.78	128.60
1	A1	1045	C	N1-C2-O2	9.64	124.68	118.90
29	D1	424	G	C5-C6-O6	-9.64	122.82	128.60
29	D1	3212	C	N3-C4-N4	-9.63	111.26	118.00
1	A1	1455	G	N9-C4-C5	9.63	109.25	105.40
29	B1	2186	U	C5-C4-O4	9.63	131.68	125.90
30	D2	46	A	C8-N9-C4	-9.62	101.95	105.80
1	A1	1090	C	C6-N1-C2	-9.62	116.45	120.30
29	D1	1329	U	N1-C2-O2	-9.62	116.07	122.80
29	B1	1047	A	N1-C6-N6	-9.62	112.83	118.60
30	B2	66	A	C5-C6-N6	9.61	131.39	123.70
29	D1	3181	C	N3-C4-C5	9.62	125.75	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1450	G	C5-C6-O6	-9.61	122.83	128.60
1	A1	647	G	C5-C6-O6	-9.60	122.84	128.60
29	B1	3243	A	C5-C6-N6	-9.60	116.02	123.70
1	A1	1437	U	C6-N1-C1'	9.58	134.61	121.20
29	B1	389	A	C6-N1-C2	9.57	124.34	118.60
29	D1	3223	A	C6-N1-C2	9.57	124.34	118.60
29	B1	1333	C	C6-N1-C2	9.57	124.13	120.30
30	D2	13	A	N3-C4-N9	-9.56	119.75	127.40
29	B1	3193	C	N1-C2-O2	-9.55	113.17	118.90
29	B1	505	G	C8-N9-C1'	9.54	139.40	127.00
29	D1	3200	G	C5-C6-O6	9.54	134.32	128.60
29	D1	1320	C	C2-N1-C1'	9.54	129.29	118.80
29	D1	3390	G	N3-C4-N9	9.53	131.72	126.00
29	B1	92	G	C4-N9-C1'	9.53	138.88	126.50
29	D1	1295	G	C8-N9-C4	9.52	110.21	106.40
29	D1	2809	C	C6-N1-C2	9.52	124.11	120.30
1	C1	1234	A	C6-N1-C2	9.52	124.31	118.60
29	B1	501	A	C8-N9-C4	9.51	109.61	105.80
29	D1	3176	G	C4-C5-N7	-9.51	106.99	110.80
29	B1	963	G	C4-N9-C1'	9.51	138.87	126.50
29	D1	1220	U	C3'-C2'-C1'	-9.51	93.89	101.50
1	C1	865	A	C8-N9-C4	9.51	109.60	105.80
29	D1	561	C	N1-C2-O2	-9.51	113.20	118.90
30	D2	13	A	C4-N9-C1'	-9.50	109.20	126.30
29	D1	2990	G	C5-C6-O6	-9.50	122.90	128.60
29	B1	744	A	N1-C6-N6	-9.50	112.90	118.60
29	B1	517	G	N9-C4-C5	9.50	109.20	105.40
29	D1	32	U	C5-C6-N1	-9.49	117.95	122.70
29	B1	3219	G	C5-C6-O6	-9.48	122.91	128.60
29	D1	503	C	N1-C2-N3	9.48	125.84	119.20
29	D1	1342	C	N3-C4-C5	9.48	125.69	121.90
29	B1	3392	U	N3-C2-O2	-9.47	115.57	122.20
29	B1	3227	A	C6-N1-C2	9.47	124.28	118.60
29	B1	3198	U	C2-N1-C1'	9.46	129.05	117.70
29	B1	2993	G	C5-C6-O6	9.46	134.27	128.60
29	B1	3272	C	N3-C4-N4	9.46	124.62	118.00
29	B1	3243	A	N1-C2-N3	-9.45	124.57	129.30
29	D1	1327	C	C2-N3-C4	-9.45	115.17	119.90
29	B1	661	G	C5-C6-N1	-9.45	106.78	111.50
29	D1	2916	U	N3-C4-O4	9.45	126.01	119.40
29	D1	886	C	C5-C6-N1	-9.44	116.28	121.00
29	D1	3001	C	C6-N1-C2	9.44	124.08	120.30

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B2	46	A	C8-N9-C4	-9.44	102.02	105.80
29	B1	102	C	N3-C2-O2	-9.44	115.29	121.90
29	B1	589	A	N3-C4-C5	-9.44	120.19	126.80
29	D1	514	G	N9-C4-C5	9.43	109.17	105.40
30	B2	15	C	C2-N1-C1'	9.43	129.17	118.80
29	B1	3200	G	C5-C6-O6	9.43	134.26	128.60
29	B1	2708	C	N3-C4-C5	9.43	125.67	121.90
30	B2	47	C	C2-N1-C1'	9.42	129.17	118.80
1	A1	1073	G	N3-C4-N9	9.40	131.64	126.00
29	D1	687	U	C2-N1-C1'	-9.40	106.42	117.70
1	A1	1620	C	C6-N1-C2	-9.40	116.54	120.30
29	D1	3257	C	N1-C2-O2	-9.40	113.26	118.90
29	B1	2671	A	C5-C6-N6	-9.40	116.18	123.70
29	D1	3266	G	N3-C4-C5	-9.39	123.90	128.60
29	B1	3266	G	N3-C4-C5	-9.39	123.91	128.60
29	B1	1317	A	N9-C4-C5	-9.39	102.04	105.80
29	B1	1506	A	C5-N7-C8	-9.39	99.21	103.90
29	B1	1056	U	C5-C4-O4	-9.38	120.27	125.90
1	C1	388	G	C8-N9-C4	-9.38	102.65	106.40
29	B1	1097	G	C5-C6-O6	9.37	134.22	128.60
29	B1	1434	G	C6-C5-N7	-9.36	124.79	130.40
29	B1	2278	C	N1-C2-O2	9.36	124.51	118.90
29	B1	3243	A	N3-C4-N9	9.35	134.88	127.40
29	B1	927	C	N1-C2-O2	-9.35	113.29	118.90
29	B1	1506	A	N7-C8-N9	9.34	118.47	113.80
29	B1	2331	C	C6-N1-C2	9.34	124.04	120.30
29	D1	890	C	N3-C4-C5	9.34	125.64	121.90
29	D1	2683	U	C5-C4-O4	-9.34	120.30	125.90
29	B1	227	G	C8-N9-C4	9.34	110.13	106.40
29	B1	503	C	N1-C2-N3	9.33	125.73	119.20
29	D1	3268	A	C8-N9-C4	9.33	109.53	105.80
29	B1	3177	G	N9-C4-C5	9.32	109.13	105.40
29	B1	3212	C	C5-C6-N1	-9.32	116.34	121.00
1	A1	1620	C	C2-N1-C1'	9.30	129.03	118.80
29	B1	503	C	C2-N3-C4	-9.30	115.25	119.90
29	D1	3177	G	C8-N9-C4	-9.29	102.68	106.40
29	B1	606	C	C5-C6-N1	9.29	125.64	121.00
29	B1	2894	C	C6-N1-C2	9.29	124.01	120.30
29	B1	1450	G	N1-C6-O6	9.28	125.47	119.90
29	B1	2362	C	N3-C4-N4	9.28	124.50	118.00
29	D1	1317	A	C5-C6-N6	-9.28	116.28	123.70
29	B1	687	U	C2-N1-C1'	-9.27	106.57	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1364	C	C6-N1-C2	9.27	124.01	120.30
29	D1	1589	A	N7-C8-N9	9.27	118.44	113.80
29	D1	3213	A	N1-C6-N6	9.27	124.16	118.60
1	A1	572	C	C6-N1-C2	-9.26	116.59	120.30
1	C1	1109	G	C5-C6-O6	-9.26	123.04	128.60
29	D1	723	U	C5-C4-O4	-9.26	120.34	125.90
29	B1	3184	A	C4-C5-C6	9.25	121.62	117.00
29	B1	338	A	N9-C4-C5	9.24	109.50	105.80
29	B1	3391	A	C5-C6-N6	-9.24	116.31	123.70
29	B1	2906	C	N3-C2-O2	9.24	128.37	121.90
1	C1	825	U	C6-N1-C2	-9.24	115.46	121.00
29	D1	29	C	N1-C2-O2	-9.24	113.36	118.90
29	D1	2380	U	N1-C2-O2	-9.24	116.33	122.80
1	A1	1045	C	N3-C2-O2	-9.23	115.44	121.90
30	B2	112	G	N9-C4-C5	9.23	109.09	105.40
29	B1	3106	A	N1-C6-N6	9.23	124.14	118.60
1	C1	1132	A	C2-N3-C4	-9.23	105.98	110.60
29	D1	308	A	C5-C6-N6	-9.23	116.32	123.70
1	A1	364	G	C5-C6-O6	9.22	134.13	128.60
29	D1	1212	A	C8-N9-C4	-9.21	102.11	105.80
29	D1	345	G	C5-C6-N1	-9.21	106.90	111.50
29	D1	575	G	N3-C2-N2	-9.21	113.46	119.90
29	D1	2879	C	C6-N1-C2	9.20	123.98	120.30
29	B1	640	U	C5-C6-N1	9.20	127.30	122.70
29	B1	103	G	N1-C6-O6	9.19	125.42	119.90
29	D1	3212	C	N3-C2-O2	9.19	128.33	121.90
29	D1	963	G	N3-C4-N9	9.19	131.51	126.00
29	D1	2339	C	N1-C2-O2	9.19	124.41	118.90
29	D1	3181	C	C6-N1-C1'	-9.19	109.78	120.80
29	B1	1317	A	C5-C6-N6	-9.18	116.35	123.70
1	A1	846	G	C5-C6-O6	9.18	134.11	128.60
29	B1	607	A	N9-C4-C5	9.18	109.47	105.80
29	B1	3212	C	N1-C2-N3	9.18	125.63	119.20
29	B1	1395	G	N1-C6-O6	-9.18	114.39	119.90
30	D2	112	G	C8-N9-C4	-9.18	102.73	106.40
29	D1	32	U	C6-N1-C1'	9.17	134.04	121.20
29	D1	1661	G	N3-C4-N9	9.17	131.50	126.00
29	D1	1288	U	C5-C4-O4	-9.17	120.40	125.90
1	C1	62	A	C5-C6-N6	9.16	131.03	123.70
29	D1	1507	G	C4-N9-C1'	-9.16	114.59	126.50
1	C1	1073	G	N3-C4-C5	-9.16	124.02	128.60
29	D1	3245	A	N1-C6-N6	9.16	124.09	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	825	U	C5-C4-O4	9.15	131.39	125.90
29	B1	410	U	N3-C4-C5	-9.15	109.11	114.60
29	B1	2398	A	C5-C6-N6	-9.15	116.38	123.70
29	B1	2961	G	N3-C4-C5	-9.14	124.03	128.60
29	B1	3212	C	N3-C4-N4	-9.14	111.60	118.00
29	D1	3181	C	C4-C5-C6	-9.13	112.83	117.40
29	B1	1175	C	C5-C6-N1	-9.13	116.44	121.00
29	B1	3212	C	N3-C2-O2	9.12	128.28	121.90
1	C1	1541	G	C4-N9-C1'	9.12	138.35	126.50
1	A1	1234	A	C6-N1-C2	9.11	124.07	118.60
29	B1	640	U	N3-C2-O2	9.11	128.58	122.20
29	D1	514	G	C6-C5-N7	9.09	135.86	130.40
29	D1	2687	G	C2-N3-C4	9.09	116.44	111.90
29	D1	94	G	N3-C4-C5	9.08	133.14	128.60
29	B1	630	A	N9-C4-C5	-9.07	102.17	105.80
29	D1	514	G	C4-N9-C1'	-9.07	114.70	126.50
29	B1	75	G	N1-C6-O6	9.07	125.34	119.90
29	D1	1165	A	C5-C6-N1	-9.07	113.17	117.70
29	D1	1056	U	C2-N1-C1'	9.05	128.56	117.70
29	D1	102	C	C6-N1-C1'	-9.05	109.94	120.80
29	B1	3221	C	C6-N1-C2	-9.05	116.68	120.30
29	B1	3219	G	N9-C4-C5	-9.04	101.78	105.40
29	D1	1166	G	C8-N9-C4	9.04	110.02	106.40
1	A1	610	G	C4-C5-N7	9.04	114.42	110.80
29	B1	577	C	C5-C4-N4	-9.04	113.88	120.20
29	B1	272	G	C6-N1-C2	9.03	130.52	125.10
34	BC	96	PRO	N-CA-CB	9.03	114.14	103.30
29	B1	1501	U	C2-N3-C4	-9.03	121.58	127.00
1	A1	62	A	C5-C6-N6	9.02	130.92	123.70
29	B1	70	A	C8-N9-C4	-9.02	102.19	105.80
29	D1	514	G	C8-N9-C1'	9.02	138.72	127.00
29	D1	421	G	C2-N3-C4	-9.02	107.39	111.90
29	B1	1148	G	C5-C6-O6	-9.01	123.19	128.60
29	B1	1425	U	C5-C6-N1	-9.01	118.20	122.70
29	B1	588	G	C5-C6-O6	9.01	134.00	128.60
30	D2	112	G	N3-C4-C5	-9.01	124.10	128.60
29	B1	2277	C	C5-C6-N1	-9.00	116.50	121.00
29	D1	3205	G	N3-C4-C5	-9.00	124.10	128.60
30	D2	15	C	N1-C2-O2	8.99	124.30	118.90
29	D1	505	G	C4-C5-N7	-8.99	107.20	110.80
1	A1	686	C	N1-C2-O2	-8.99	113.51	118.90
29	D1	2919	A	C8-N9-C4	-8.99	102.20	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2828	G	C5-C6-O6	-8.97	123.22	128.60
29	B1	3176	G	C2-N3-C4	-8.97	107.42	111.90
29	B1	3001	C	C5-C6-N1	-8.96	116.52	121.00
29	D1	2935	U	C5-C6-N1	-8.96	118.22	122.70
29	D1	379	C	C5-C4-N4	-8.96	113.93	120.20
29	D1	1056	U	C5-C4-O4	-8.95	120.53	125.90
1	A1	846	G	N1-C6-O6	-8.95	114.53	119.90
29	B1	1320	C	C2-N1-C1'	8.95	128.64	118.80
29	D1	1187	C	C5-C6-N1	-8.95	116.53	121.00
29	D1	1152	G	N1-C6-O6	8.94	125.27	119.90
29	D1	2262	A	C8-N9-C4	-8.94	102.22	105.80
29	D1	1190	A	C6-N1-C2	-8.94	113.24	118.60
29	B1	750	G	N1-C6-O6	-8.93	114.54	119.90
29	B1	1429	G	N3-C4-N9	8.93	131.36	126.00
29	D1	1124	U	N3-C2-O2	-8.93	115.95	122.20
30	D2	47	C	N3-C4-C5	8.93	125.47	121.90
1	A1	572	C	C6-N1-C1'	-8.93	110.09	120.80
29	B1	2312	A	C8-N9-C4	-8.92	102.23	105.80
29	B1	2835	U	C2-N1-C1'	8.92	128.40	117.70
29	D1	92	G	C4-N9-C1'	8.92	138.09	126.50
29	D1	2671	A	C6-N1-C2	-8.92	113.25	118.60
29	D1	2830	G	C5-C6-N1	-8.91	107.04	111.50
29	B1	1387	G	C5-N7-C8	-8.91	99.85	104.30
29	D1	1457	U	C5-C6-N1	-8.91	118.25	122.70
1	A1	825	U	C4-C5-C6	8.90	125.04	119.70
29	D1	746	A	C2-N3-C4	8.90	115.05	110.60
29	D1	1333	C	C5-C4-N4	-8.89	113.97	120.20
29	B1	1589	A	C8-N9-C4	-8.89	102.25	105.80
29	B1	966	U	C5-C4-O4	-8.88	120.57	125.90
29	D1	1147	G	C6-C5-N7	-8.88	125.07	130.40
29	D1	504	A	N1-C6-N6	8.88	123.93	118.60
29	B1	1192	C	C6-N1-C1'	-8.88	110.15	120.80
29	B1	1884	A	C5-C6-N6	-8.87	116.60	123.70
29	D1	676	G	N3-C4-N9	8.87	131.32	126.00
29	B1	118	U	N1-C2-O2	8.87	129.01	122.80
29	B1	3212	C	C5-C4-N4	8.87	126.41	120.20
29	D1	2278	C	C5-C6-N1	8.86	125.43	121.00
29	B1	669	U	C2-N1-C1'	8.86	128.33	117.70
29	D1	969	C	C6-N1-C2	8.85	123.84	120.30
29	B1	3303	G	N9-C4-C5	8.85	108.94	105.40
30	B2	13	A	N3-C4-N9	-8.85	120.32	127.40
1	C1	45	U	N3-C4-O4	8.85	125.59	119.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	92	G	C8-N9-C1'	-8.85	115.50	127.00
29	B1	26	A	C8-N9-C4	-8.84	102.26	105.80
29	B1	2889	C	C6-N1-C2	8.84	123.84	120.30
29	D1	1147	G	N3-C4-C5	8.84	133.02	128.60
29	D1	1362	G	C8-N9-C4	8.84	109.94	106.40
29	D1	927	C	N1-C2-O2	-8.84	113.60	118.90
29	B1	2247	G	C5-C6-O6	-8.83	123.30	128.60
29	D1	1589	A	C8-N9-C4	-8.82	102.27	105.80
29	D1	3291	G	N3-C4-N9	8.82	131.29	126.00
29	B1	94	G	N3-C4-C5	8.82	133.01	128.60
29	D1	1897	G	C5-C6-O6	-8.82	123.31	128.60
29	B1	102	C	C6-N1-C2	-8.81	116.77	120.30
29	D1	3219	G	C6-C5-N7	-8.81	125.11	130.40
29	B1	1196	C	N3-C2-O2	-8.81	115.73	121.90
29	B1	1589	A	N7-C8-N9	8.81	118.20	113.80
1	C1	1028	C	C6-N1-C1'	-8.81	110.23	120.80
29	D1	513	G	C4-N9-C1'	-8.81	115.05	126.50
29	D1	92	G	C4-C5-N7	8.81	114.32	110.80
29	B1	588	G	N3-C4-C5	-8.80	124.20	128.60
29	D1	3244	A	N7-C8-N9	-8.80	109.40	113.80
29	B1	2890	A	C8-N9-C4	-8.80	102.28	105.80
29	B1	1097	G	N1-C6-O6	-8.79	114.62	119.90
29	D1	1902	G	C8-N9-C1'	-8.79	115.57	127.00
29	D1	1420	C	C6-N1-C2	8.79	123.82	120.30
1	A1	572	C	N3-C2-O2	-8.79	115.75	121.90
29	B1	67	A	N1-C6-N6	-8.78	113.33	118.60
29	D1	92	G	C5-C6-O6	-8.78	123.33	128.60
29	D1	513	G	C6-C5-N7	8.78	135.67	130.40
29	B1	2331	C	N3-C2-O2	8.77	128.04	121.90
29	D1	2378	C	N1-C2-O2	-8.77	113.64	118.90
29	B1	978	G	C4-N9-C1'	8.77	137.90	126.50
30	B2	111	U	C2-N1-C1'	8.77	128.22	117.70
1	A1	391	A	C8-N9-C4	8.76	109.31	105.80
29	B1	655	C	C5-C6-N1	-8.76	116.62	121.00
29	B1	3170	A	C6-N1-C2	8.76	123.85	118.60
29	D1	73	C	C6-N1-C2	-8.76	116.80	120.30
29	B1	853	G	C5-C6-N1	8.75	115.87	111.50
29	B1	1434	G	N3-C4-C5	8.75	132.97	128.60
29	B1	1951	C	C5-C4-N4	8.74	126.32	120.20
29	D1	3243	A	N1-C6-N6	8.74	123.84	118.60
1	C1	1046	G	N3-C4-N9	8.74	131.24	126.00
29	B1	1380	G	C2-N3-C4	-8.73	107.53	111.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2701	U	C5-C4-O4	-8.73	120.66	125.90
29	B1	2302	G	N1-C6-O6	-8.73	114.66	119.90
29	D1	640	U	N1-C2-O2	-8.73	116.69	122.80
29	B1	1387	G	C4-C5-N7	8.73	114.29	110.80
29	D1	505	G	C8-N9-C1'	8.73	138.34	127.00
1	C1	650	U	N3-C4-O4	8.72	125.51	119.40
29	D1	1124	U	N1-C2-O2	8.72	128.91	122.80
29	D1	390	G	N3-C4-C5	8.72	132.96	128.60
29	D1	3179	U	N3-C4-C5	-8.72	109.37	114.60
29	B1	1402	C	N3-C4-C5	8.71	125.39	121.90
1	A1	337	G	C6-C5-N7	-8.71	125.17	130.40
29	B1	2961	G	N3-C4-N9	8.71	131.23	126.00
29	D1	3211	C	N1-C2-O2	-8.70	113.68	118.90
29	B1	125	C	C2-N1-C1'	8.70	128.37	118.80
29	B1	1439	U	C2-N3-C4	-8.70	121.78	127.00
29	B1	630	A	C5-C6-N6	-8.70	116.74	123.70
29	B1	422	A	N1-C2-N3	-8.69	124.95	129.30
29	D1	434	U	N1-C2-O2	-8.69	116.71	122.80
29	D1	2527	G	N3-C4-N9	-8.69	120.79	126.00
29	B1	2331	C	C2-N1-C1'	-8.68	109.25	118.80
29	D1	1047	A	N9-C4-C5	8.68	109.27	105.80
29	D1	2331	C	N1-C2-O2	-8.68	113.69	118.90
1	A1	1198	G	C8-N9-C4	-8.67	102.93	106.40
29	D1	3176	G	C6-N1-C2	8.67	130.30	125.10
31	D3	92	A	C5-C6-N1	-8.67	113.37	117.70
29	B1	3391	A	C6-N1-C2	-8.66	113.40	118.60
29	D1	557	A	C5-C6-N1	-8.66	113.37	117.70
1	A1	1135	U	N1-C2-O2	-8.66	116.74	122.80
29	B1	718	G	N3-C4-N9	8.65	131.19	126.00
29	B1	514	G	C4-N9-C1'	-8.65	115.25	126.50
29	B1	514	G	N3-C4-C5	8.65	132.93	128.60
29	D1	3219	G	C5-N7-C8	-8.65	99.97	104.30
1	C1	1437	U	C6-N1-C1'	8.65	133.31	121.20
29	B1	505	G	C4-N9-C1'	-8.65	115.26	126.50
29	D1	1330	A	C2-N3-C4	-8.64	106.28	110.60
29	D1	3272	C	N3-C4-C5	-8.64	118.44	121.90
1	C1	409	C	C6-N1-C2	-8.64	116.84	120.30
29	D1	583	G	C5-C6-O6	8.64	133.78	128.60
29	D1	1850	A	C2-N3-C4	-8.64	106.28	110.60
30	D2	47	C	C5-C6-N1	8.64	125.32	121.00
29	B1	556	U	N1-C2-O2	8.64	128.85	122.80
29	D1	2835	U	C2-N1-C1'	8.64	128.06	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	337	G	C5-C6-O6	-8.63	123.42	128.60
29	B1	514	G	C8-N9-C1'	8.63	138.22	127.00
29	B1	557	A	C6-N1-C2	8.63	123.78	118.60
29	D1	517	G	N3-C2-N2	-8.63	113.86	119.90
29	D1	1951	C	C5-C4-N4	8.63	126.24	120.20
31	B3	34	U	C6-N1-C2	-8.63	115.82	121.00
30	D2	29	C	C6-N1-C2	8.63	123.75	120.30
29	D1	3220	G	C4-N9-C1'	8.62	137.71	126.50
29	B1	3099	C	C5-C6-N1	8.62	125.31	121.00
29	B1	1387	G	N1-C6-O6	8.62	125.07	119.90
29	B1	3243	A	N1-C6-N6	8.62	123.77	118.60
29	B1	3392	U	C5-C4-O4	-8.62	120.73	125.90
29	B1	284	A	N1-C6-N6	-8.61	113.43	118.60
1	C1	1377	U	C5-C4-O4	-8.61	120.73	125.90
1	A1	1651	A	N1-C6-N6	8.61	123.77	118.60
1	C1	517	U	N1-C2-O2	-8.61	116.78	122.80
29	B1	150	A	C5-C6-N1	8.60	122.00	117.70
30	B2	112	G	C4-C5-N7	-8.60	107.36	110.80
1	C1	427	C	C6-N1-C2	8.60	123.74	120.30
30	D2	66	A	C2-N3-C4	-8.60	106.30	110.60
29	B1	3220	G	C8-N9-C4	-8.60	102.96	106.40
29	B1	1330	A	C2-N3-C4	-8.59	106.31	110.60
29	B1	32	U	C6-N1-C2	8.59	126.15	121.00
29	B1	2913	C	C2-N1-C1'	-8.59	109.35	118.80
29	D1	517	G	N3-C4-N9	-8.59	120.85	126.00
29	D1	586	C	N1-C2-O2	-8.59	113.75	118.90
29	D1	1300	G	C8-N9-C4	-8.59	102.97	106.40
29	B1	576	C	N1-C2-O2	-8.58	113.75	118.90
29	D1	963	G	N9-C4-C5	-8.58	101.97	105.40
1	C1	1560	U	N3-C4-O4	-8.58	113.39	119.40
29	B1	518	G	C2-N3-C4	-8.58	107.61	111.90
29	B1	1100	U	C5-C6-N1	-8.58	118.41	122.70
1	C1	1303	U	N1-C2-O2	-8.58	116.80	122.80
29	D1	2929	C	N3-C4-N4	8.58	124.00	118.00
45	DP	131	PRO	N-CA-CB	8.57	113.59	103.30
30	B2	66	A	C5-C6-N1	-8.57	113.42	117.70
29	D1	3176	G	C6-C5-N7	8.57	135.54	130.40
1	A1	825	U	C6-N1-C2	-8.57	115.86	121.00
29	B1	3035	A	C6-N1-C2	-8.57	113.46	118.60
29	D1	1175	C	C2-N3-C4	-8.57	115.62	119.90
29	B1	2605	G	N1-C6-O6	8.56	125.04	119.90
29	D1	2882	U	C5-C4-O4	-8.56	120.76	125.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2899	C	C6-N1-C2	-8.55	116.88	120.30
29	B1	1054	A	C8-N9-C4	8.55	109.22	105.80
31	B3	34	U	C3'-C2'-C1'	-8.55	94.66	101.50
29	D1	94	G	C5-C6-O6	8.54	133.73	128.60
29	B1	2377	G	N9-C4-C5	8.54	108.82	105.40
29	B1	3266	G	N1-C6-O6	-8.54	114.77	119.90
29	D1	244	G	C6-N1-C2	8.54	130.22	125.10
29	D1	1175	C	C6-N1-C2	8.54	123.72	120.30
29	B1	2683	U	C5-C4-O4	-8.54	120.78	125.90
29	B1	3143	C	N3-C2-O2	8.54	127.88	121.90
1	C1	1541	G	C4-C5-C6	8.54	123.92	118.80
29	B1	655	C	C2-N3-C4	-8.54	115.63	119.90
29	D1	2398	A	N1-C6-N6	8.54	123.72	118.60
29	B1	2391	G	C5-C6-O6	-8.54	123.48	128.60
29	B1	1792	C	N1-C2-O2	-8.53	113.78	118.90
29	D1	1887	A	C8-N9-C4	8.53	109.21	105.80
1	A1	1033	C	C6-N1-C2	8.53	123.71	120.30
29	D1	1292	C	C6-N1-C2	8.53	123.71	120.30
29	B1	2391	G	C2-N3-C4	-8.53	107.64	111.90
29	B1	3211	C	N1-C2-O2	-8.52	113.79	118.90
29	D1	590	G	C8-N9-C4	8.52	109.81	106.40
29	D1	3303	G	N9-C4-C5	8.52	108.81	105.40
29	B1	517	G	C8-N9-C4	-8.52	102.99	106.40
30	B2	13	A	C4-N9-C1'	-8.52	110.97	126.30
29	B1	1111	U	C2-N1-C1'	-8.51	107.49	117.70
29	D1	1370	G	C5-C6-O6	-8.51	123.50	128.60
29	B1	39	A	C5-N7-C8	-8.50	99.65	103.90
29	B1	1887	A	C5-C6-N1	-8.50	113.45	117.70
29	B1	402	A	N1-C6-N6	8.50	123.70	118.60
1	C1	517	U	C5-C4-O4	8.50	131.00	125.90
29	B1	3176	G	C6-C5-N7	8.50	135.50	130.40
29	D1	1450	G	C5-N7-C8	-8.50	100.05	104.30
29	B1	358	G	N1-C6-O6	8.49	125.00	119.90
29	D1	965	A	C8-N9-C4	8.48	109.19	105.80
29	D1	2990	G	N1-C6-O6	8.48	124.99	119.90
29	B1	52	A	C4-C5-C6	8.48	121.24	117.00
29	D1	1525	G	C8-N9-C1'	-8.48	115.98	127.00
29	D1	729	C	C6-N1-C1'	-8.48	110.63	120.80
29	B1	1317	A	C4-C5-N7	8.47	114.94	110.70
29	B1	612	U	N3-C4-O4	8.47	125.33	119.40
29	B1	2362	C	C2-N1-C1'	-8.47	109.48	118.80
29	B1	640	U	C6-N1-C2	-8.47	115.92	121.00

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2835	U	N3-C4-O4	8.47	125.33	119.40
29	B1	505	G	C5-C6-O6	-8.46	123.52	128.60
29	B1	630	A	C4-C5-N7	8.47	114.93	110.70
29	D1	630	A	N1-C6-N6	8.47	123.68	118.60
29	D1	729	C	N1-C2-O2	8.46	123.98	118.90
29	D1	1902	G	C8-N9-C4	8.46	109.79	106.40
1	A1	1244	A	N1-C6-N6	-8.46	113.53	118.60
29	B1	504	A	C6-C5-N7	-8.46	126.38	132.30
29	B1	3108	G	N3-C4-C5	8.46	132.83	128.60
29	B1	677	A	N1-C6-N6	8.45	123.67	118.60
29	D1	2665	U	C2-N3-C4	-8.45	121.93	127.00
29	B1	1175	C	N3-C4-C5	8.45	125.28	121.90
29	B1	2828	G	N1-C6-O6	8.45	124.97	119.90
31	B3	104	A	C8-N9-C4	8.45	109.18	105.80
29	D1	606	C	C5-C4-N4	-8.45	114.29	120.20
29	B1	3396	U	N3-C2-O2	-8.44	116.29	122.20
29	B1	2867	C	N1-C2-O2	-8.44	113.84	118.90
29	B1	364	G	N3-C4-N9	8.44	131.06	126.00
30	D2	13	A	C8-N9-C1'	8.44	142.89	127.70
29	B1	2183	A	C8-N9-C4	-8.44	102.42	105.80
29	D1	118	U	N1-C2-O2	8.44	128.71	122.80
29	B1	2602	G	C8-N9-C4	8.44	109.77	106.40
29	D1	729	C	C2-N1-C1'	8.44	128.08	118.80
29	D1	3392	U	C2-N1-C1'	8.44	127.82	117.70
29	B1	864	G	C8-N9-C4	8.43	109.77	106.40
29	D1	102	C	C5-C6-N1	8.43	125.21	121.00
29	D1	518	G	N3-C2-N2	-8.43	114.00	119.90
30	D2	13	A	C5-C6-N6	8.43	130.44	123.70
29	B1	2879	C	N3-C2-O2	8.43	127.80	121.90
29	B1	380	U	C2-N1-C1'	-8.42	107.59	117.70
29	B1	588	G	C6-N1-C2	-8.42	120.05	125.10
29	B1	2906	C	C2-N1-C1'	-8.42	109.54	118.80
30	D2	9	C	C6-N1-C2	-8.42	116.93	120.30
29	D1	2147	A	N1-C6-N6	8.42	123.65	118.60
29	B1	421	G	N7-C8-N9	8.41	117.31	113.10
29	B1	609	G	C5-C6-O6	8.41	133.65	128.60
29	B1	3173	G	N3-C4-C5	8.41	132.81	128.60
29	B1	2247	G	C4-C5-N7	8.41	114.17	110.80
1	A1	1421	A	C8-N9-C4	-8.41	102.44	105.80
29	D1	1434	G	N3-C4-C5	8.41	132.81	128.60
29	D1	2290	C	N1-C2-O2	-8.41	113.86	118.90
1	A1	1109	G	C5-C6-O6	-8.40	123.56	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	645	A	C8-N9-C4	-8.40	102.44	105.80
29	B1	2828	G	C5-C6-O6	-8.40	123.56	128.60
29	D1	931	C	C6-N1-C2	-8.40	116.94	120.30
29	B1	102	C	C5-C6-N1	8.40	125.20	121.00
29	B1	965	A	C8-N9-C4	8.40	109.16	105.80
29	B1	3386	G	C6-C5-N7	-8.40	125.36	130.40
29	D1	1324	U	C2-N1-C1'	8.40	127.78	117.70
29	B1	2337	C	N1-C2-O2	-8.39	113.86	118.90
29	B1	2988	C	C6-N1-C1'	-8.39	110.73	120.80
29	B1	3220	G	C4-N9-C1'	8.39	137.41	126.50
30	D2	13	A	N3-C4-C5	8.39	132.68	126.80
29	B1	421	G	C5-C6-N1	-8.39	107.31	111.50
29	D1	500	C	C6-N1-C1'	-8.39	110.73	120.80
29	B1	2147	A	N9-C4-C5	-8.38	102.45	105.80
29	D1	2906	C	C2-N1-C1'	-8.38	109.58	118.80
29	B1	421	G	C4-C5-C6	8.38	123.83	118.80
29	D1	1058	U	C5-C6-N1	-8.38	118.51	122.70
29	D1	1320	C	C6-N1-C1'	-8.38	110.75	120.80
29	B1	379	C	C5-C4-N4	-8.37	114.34	120.20
29	B1	716	A	C8-N9-C4	-8.37	102.45	105.80
1	C1	847	A	C6-N1-C2	-8.37	113.58	118.60
1	C1	337	G	C4-C5-N7	8.36	114.14	110.80
29	D1	3266	G	N1-C6-O6	-8.36	114.89	119.90
29	D1	3392	U	C6-N1-C1'	-8.36	109.50	121.20
29	B1	1362	G	N7-C8-N9	-8.36	108.92	113.10
29	B1	3132	C	N1-C2-O2	-8.36	113.89	118.90
30	B2	13	A	N3-C4-C5	8.35	132.65	126.80
29	D1	92	G	N3-C4-N9	8.35	131.01	126.00
1	A1	1109	G	N1-C6-O6	8.35	124.91	119.90
1	C1	1135	U	N1-C2-O2	-8.34	116.96	122.80
29	B1	2283	G	N3-C2-N2	-8.34	114.06	119.90
29	B1	2369	G	N1-C6-O6	8.34	124.90	119.90
29	D1	2889	C	C6-N1-C2	8.34	123.64	120.30
29	B1	513	G	N9-C4-C5	8.34	108.73	105.40
29	B1	1146	C	C6-N1-C2	8.33	123.63	120.30
29	B1	1387	G	N7-C8-N9	8.33	117.26	113.10
29	D1	557	A	C6-N1-C2	8.33	123.60	118.60
29	D1	747	A	N1-C6-N6	8.33	123.60	118.60
29	B1	517	G	N3-C4-N9	-8.32	121.00	126.00
29	D1	1928	G	C8-N9-C4	8.32	109.73	106.40
1	A1	517	U	N1-C2-O2	-8.32	116.98	122.80
1	C1	364	G	C5-C6-O6	8.32	133.59	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3143	C	C5-C6-N1	8.32	125.16	121.00
29	B1	1550	C	C6-N1-C2	8.31	123.62	120.30
1	C1	426	G	N9-C4-C5	-8.31	102.08	105.40
29	D1	2664	C	C6-N1-C2	8.31	123.62	120.30
29	D1	2278	C	C4-C5-C6	-8.31	113.25	117.40
29	B1	2663	G	C5-C6-N1	8.30	115.65	111.50
1	C1	647	G	C5-C6-O6	-8.30	123.62	128.60
29	D1	746	A	C5-C6-N1	8.30	121.85	117.70
29	B1	1292	C	C6-N1-C2	8.30	123.62	120.30
1	C1	610	G	C6-C5-N7	-8.30	125.42	130.40
1	A1	1377	U	C5-C4-O4	-8.30	120.92	125.90
29	B1	3181	C	C6-N1-C1'	-8.30	110.84	120.80
29	B1	1450	G	C6-C5-N7	-8.30	125.42	130.40
29	D1	963	G	C4-N9-C1'	8.30	137.29	126.50
29	D1	2669	G	C4-C5-N7	8.30	114.12	110.80
29	B1	3244	A	N7-C8-N9	-8.30	109.65	113.80
29	B1	92	G	C5-C6-O6	-8.29	123.63	128.60
29	B1	777	U	C5-C4-O4	-8.29	120.93	125.90
29	D1	1525	G	C4-N9-C1'	8.29	137.28	126.50
29	B1	978	G	C8-N9-C1'	-8.29	116.23	127.00
29	B1	3223	A	C6-N1-C2	8.29	123.57	118.60
29	B1	2689	A	N9-C4-C5	8.28	109.11	105.80
1	C1	958	U	C2-N3-C4	-8.28	122.03	127.00
29	B1	2643	A	C2-N3-C4	-8.27	106.46	110.60
29	B1	2958	A	N7-C8-N9	-8.27	109.66	113.80
29	B1	814	U	N3-C2-O2	8.27	127.99	122.20
29	D1	2377	G	N3-C4-C5	8.27	132.74	128.60
29	D1	2707	C	C6-N1-C2	8.27	123.61	120.30
29	B1	3181	C	C5-C6-N1	8.27	125.14	121.00
29	D1	125	C	C2-N1-C1'	8.27	127.89	118.80
29	B1	2611	U	C6-N1-C2	-8.27	116.04	121.00
29	D1	1111	U	C5-C6-N1	-8.27	118.57	122.70
29	B1	335	G	C6-C5-N7	-8.26	125.44	130.40
29	D1	2687	G	N3-C4-C5	-8.26	124.47	128.60
29	D1	695	C	C6-N1-C2	8.26	123.60	120.30
29	B1	1115	G	C6-C5-N7	-8.26	125.44	130.40
29	D1	3124	G	C8-N9-C4	-8.26	103.10	106.40
29	D1	2362	C	N3-C4-N4	8.26	123.78	118.00
29	D1	2846	U	N1-C2-N3	8.25	119.85	114.90
29	B1	685	G	C8-N9-C1'	-8.25	116.28	127.00
29	B1	3019	U	C2-N3-C4	-8.25	122.05	127.00
1	A1	337	G	C5-N7-C8	-8.24	100.18	104.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	978	G	N3-C4-C5	-8.24	124.48	128.60
29	D1	92	G	C6-C5-N7	-8.24	125.45	130.40
29	D1	685	G	C8-N9-C1'	-8.24	116.29	127.00
29	D1	1097	G	N9-C4-C5	8.24	108.70	105.40
29	D1	576	C	N1-C2-O2	-8.24	113.96	118.90
29	B1	1501	U	N3-C4-C5	8.24	119.54	114.60
30	D2	93	C	C5-C4-N4	-8.24	114.44	120.20
29	D1	3303	G	C5-N7-C8	8.23	108.42	104.30
29	B1	1661	G	N3-C4-N9	8.23	130.94	126.00
29	D1	1661	G	C8-N9-C1'	-8.23	116.30	127.00
29	D1	2337	C	N1-C2-O2	-8.23	113.96	118.90
30	D2	46	A	N3-C4-C5	-8.23	121.04	126.80
29	B1	1506	A	C4-C5-N7	8.22	114.81	110.70
29	B1	2667	A	C5-C6-N1	8.22	121.81	117.70
1	C1	1647	U	N1-C2-O2	-8.22	117.04	122.80
1	A1	650	U	N3-C4-O4	8.22	125.16	119.40
29	B1	866	A	C8-N9-C4	-8.22	102.51	105.80
29	D1	994	G	N3-C4-N9	8.22	130.93	126.00
29	D1	1146	C	C5-C6-N1	-8.22	116.89	121.00
29	B1	1424	C	C6-N1-C2	8.22	123.59	120.30
29	D1	1097	G	C4-C5-N7	-8.22	107.51	110.80
29	D1	3391	A	C6-N1-C2	-8.22	113.67	118.60
29	B1	513	G	C6-C5-N7	8.22	135.33	130.40
29	B1	1187	C	C6-N1-C2	8.22	123.59	120.30
1	C1	1177	C	C6-N1-C2	8.21	123.58	120.30
1	A1	847	A	C6-N1-C2	-8.21	113.67	118.60
29	B1	505	G	C5-C6-N1	-8.21	107.39	111.50
29	D1	648	C	C4-C5-C6	8.21	121.51	117.40
29	D1	3205	G	C5-C6-N1	8.21	115.61	111.50
29	B1	726	G	C4-N9-C1'	8.21	137.17	126.50
1	C1	1455	G	N9-C4-C5	8.21	108.68	105.40
29	D1	1111	U	C6-N1-C2	8.20	125.92	121.00
29	B1	32	U	C6-N1-C1'	8.20	132.69	121.20
29	D1	1320	C	C5-C4-N4	-8.20	114.46	120.20
29	B1	2303	A	C8-N9-C4	8.20	109.08	105.80
29	D1	1147	G	N9-C4-C5	-8.20	102.12	105.40
29	B1	661	G	N3-C4-C5	8.20	132.70	128.60
29	B1	3215	A	C8-N9-C4	-8.20	102.52	105.80
29	B1	3390	G	C4-N9-C1'	8.20	137.15	126.50
29	D1	3170	A	C6-N1-C2	8.20	123.52	118.60
29	B1	343	U	N3-C2-O2	-8.19	116.47	122.20
29	D1	1191	U	N1-C2-N3	-8.19	109.98	114.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1609	C	C6-N1-C2	8.19	123.58	120.30
29	B1	2988	C	C2-N1-C1'	8.19	127.81	118.80
29	B1	1196	C	N1-C2-O2	8.19	123.81	118.90
1	A1	1481	C	C6-N1-C2	-8.18	117.03	120.30
1	A1	1187	U	C5-C4-O4	-8.18	120.99	125.90
1	A1	1421	A	C2-N3-C4	8.18	114.69	110.60
29	D1	370	U	N1-C2-O2	-8.18	117.07	122.80
29	B1	38	U	C6-N1-C2	8.18	125.91	121.00
29	B1	421	G	N1-C2-N3	8.18	128.81	123.90
29	B1	2391	G	N1-C6-O6	8.18	124.81	119.90
29	D1	89	A	N9-C4-C5	-8.18	102.53	105.80
29	D1	1288	U	N3-C4-O4	8.17	125.12	119.40
29	B1	2990	G	C4-C5-N7	8.17	114.07	110.80
29	B1	3303	G	N1-C6-O6	-8.17	115.00	119.90
29	D1	726	G	C4-N9-C1'	8.17	137.12	126.50
29	B1	1148	G	C5-N7-C8	-8.16	100.22	104.30
29	B1	2807	U	N3-C2-O2	8.16	127.92	122.20
1	C1	54	C	C5-C4-N4	-8.16	114.49	120.20
29	D1	505	G	C6-C5-N7	8.16	135.30	130.40
29	B1	1320	C	C5-C4-N4	-8.16	114.49	120.20
1	C1	1564	U	N3-C2-O2	8.16	127.91	122.20
29	D1	3376	A	C5-N7-C8	8.16	107.98	103.90
29	B1	3099	C	C4-C5-C6	-8.15	113.32	117.40
29	D1	52	A	C4-C5-C6	8.15	121.08	117.00
29	D1	327	A	C5-C6-N1	-8.14	113.63	117.70
29	D1	1315	U	N1-C2-N3	-8.14	110.02	114.90
29	B1	1003	A	C8-N9-C4	-8.14	102.54	105.80
29	B1	1207	G	C5-C6-O6	-8.14	123.72	128.60
29	B1	1111	U	C6-N1-C2	8.14	125.88	121.00
30	B2	113	C	C2-N3-C4	-8.14	115.83	119.90
29	B1	590	G	N3-C4-C5	8.13	132.67	128.60
29	B1	718	G	C2-N3-C4	8.13	115.97	111.90
29	D1	504	A	N9-C4-C5	-8.13	102.55	105.80
29	D1	654	C	C5-C6-N1	-8.13	116.93	121.00
1	A1	1174	C	C6-N1-C2	8.13	123.55	120.30
29	B1	387	A	C6-N1-C2	8.13	123.48	118.60
29	B1	410	U	C6-N1-C2	-8.13	116.12	121.00
29	B1	676	G	C4-N9-C1'	8.13	137.07	126.50
29	B1	729	C	C2-N1-C1'	8.13	127.74	118.80
29	B1	963	G	N3-C4-C5	-8.13	124.54	128.60
29	D1	435	C	C5-C6-N1	-8.13	116.94	121.00
29	D1	2957	G	N3-C4-N9	-8.13	121.12	126.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1063	G	N3-C4-C5	8.13	132.66	128.60
29	B1	3268	A	N7-C8-N9	-8.12	109.74	113.80
1	A1	1046	G	N3-C4-N9	8.12	130.87	126.00
1	C1	846	G	N1-C6-O6	-8.12	115.03	119.90
1	C1	1345	A	C5-C6-N1	-8.11	113.64	117.70
29	D1	606	C	N3-C4-N4	8.11	123.68	118.00
30	D2	14	U	C2-N3-C4	8.11	131.87	127.00
29	D1	1313	G	N1-C6-O6	-8.11	115.03	119.90
29	D1	2882	U	C2-N1-C1'	8.11	127.43	117.70
29	B1	1148	G	C2-N3-C4	-8.10	107.85	111.90
1	C1	1134	C	C6-N1-C2	8.10	123.54	120.30
29	D1	2671	A	C5-C6-N1	8.10	121.75	117.70
29	D1	2933	A	N1-C6-N6	-8.10	113.74	118.60
29	B1	3297	U	C6-N1-C2	-8.10	116.14	121.00
29	D1	92	G	N9-C4-C5	-8.10	102.16	105.40
44	DO	84	PRO	N-CA-CB	8.10	113.02	103.30
29	D1	102	C	N1-C2-O2	8.09	123.76	118.90
1	C1	1028	C	C2-N1-C1'	8.09	127.70	118.80
29	D1	1420	C	N3-C4-C5	8.09	125.14	121.90
29	B1	2390	A	N1-C6-N6	-8.09	113.75	118.60
29	B1	2837	A	N1-C6-N6	-8.09	113.75	118.60
29	D1	2913	C	C6-N1-C1'	8.09	130.50	120.80
1	C1	590	C	C6-N1-C2	-8.08	117.07	120.30
29	D1	3226	A	C2-N3-C4	-8.08	106.56	110.60
43	DN	49	PRO	N-CA-CB	8.08	113.00	103.30
29	B1	747	A	N1-C6-N6	8.08	123.45	118.60
29	D1	3215	A	C8-N9-C4	-8.08	102.57	105.80
29	B1	1458	U	C5-C6-N1	-8.08	118.66	122.70
29	B1	1887	A	N3-C4-C5	8.08	132.46	126.80
29	B1	257	U	C5-C4-O4	-8.08	121.05	125.90
29	B1	1296	C	C6-N1-C2	-8.07	117.07	120.30
29	B1	2982	A	N1-C6-N6	-8.07	113.75	118.60
30	B2	14	U	C2-N3-C4	8.07	131.84	127.00
29	D1	654	C	C6-N1-C2	8.07	123.53	120.30
29	B1	1431	G	C4-C5-N7	-8.07	107.57	110.80
29	D1	3324	C	N1-C2-O2	8.07	123.74	118.90
29	B1	1192	C	N1-C2-O2	8.07	123.74	118.90
29	D1	2879	C	C2-N1-C1'	-8.06	109.93	118.80
1	C1	426	G	C4-C5-N7	8.06	114.03	110.80
29	B1	607	A	N3-C4-C5	-8.06	121.16	126.80
38	DG	97	PRO	N-CA-CB	8.06	112.97	103.30
29	B1	1490	A	C8-N9-C4	8.06	109.02	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3376	A	N1-C6-N6	-8.06	113.77	118.60
29	D1	2391	G	C5-C6-O6	-8.05	123.77	128.60
29	D1	1899	G	C8-N9-C4	8.05	109.62	106.40
29	B1	963	G	C8-N9-C1'	-8.05	116.54	127.00
29	D1	597	G	C5-C6-O6	-8.05	123.77	128.60
29	D1	726	G	N3-C4-N9	8.04	130.83	126.00
29	B1	2906	C	C6-N1-C2	8.04	123.52	120.30
29	B1	752	C	C2-N1-C1'	8.04	127.64	118.80
1	A1	1498	G	N3-C4-N9	8.03	130.82	126.00
1	A1	423	G	C8-N9-C4	-8.03	103.19	106.40
29	B1	744	A	C5-N7-C8	8.03	107.92	103.90
30	B2	96	U	N1-C2-N3	8.03	119.72	114.90
29	D1	2377	G	N3-C2-N2	-8.03	114.28	119.90
29	B1	518	G	N3-C2-N2	-8.03	114.28	119.90
29	B1	3108	G	N3-C4-N9	-8.02	121.19	126.00
1	C1	374	U	C5-C4-O4	-8.02	121.09	125.90
29	B1	840	C	C6-N1-C2	8.02	123.51	120.30
29	B1	3242	G	C2-N3-C4	8.02	115.91	111.90
1	C1	310	C	C5-C4-N4	-8.02	114.59	120.20
29	D1	723	U	C2-N1-C1'	8.02	127.32	117.70
29	D1	1297	C	C5-C4-N4	-8.02	114.59	120.20
29	D1	1141	C	C6-N1-C2	8.02	123.51	120.30
29	D1	1151	U	N3-C4-C5	-8.02	109.79	114.60
29	D1	514	G	N3-C4-C5	8.01	132.61	128.60
29	D1	575	G	N9-C4-C5	8.01	108.60	105.40
1	C1	1745	G	N1-C6-O6	-8.01	115.10	119.90
29	D1	2913	C	N1-C2-O2	-8.01	114.10	118.90
29	B1	2708	C	C5-C4-N4	-8.00	114.60	120.20
29	D1	1312	C	C2-N3-C4	-8.00	115.90	119.90
1	A1	1234	A	C5-C6-N1	-8.00	113.70	117.70
30	D2	96	U	C5-C6-N1	-8.00	118.70	122.70
1	A1	869	A	C5-C6-N1	7.99	121.69	117.70
29	D1	1294	A	C2-N3-C4	7.99	114.59	110.60
29	B1	244	G	C6-N1-C2	7.99	129.89	125.10
1	C1	62	A	N9-C4-C5	7.99	109.00	105.80
29	D1	1166	G	N9-C4-C5	-7.99	102.20	105.40
29	B1	2912	G	C8-N9-C4	-7.99	103.21	106.40
29	B1	1377	G	N1-C6-O6	-7.98	115.11	119.90
29	D1	987	U	C5-C6-N1	-7.98	118.71	122.70
29	B1	92	G	C8-N9-C1'	-7.98	116.63	127.00
29	B1	3025	C	C5-C6-N1	-7.98	117.01	121.00
29	D1	2705	A	C4-C5-C6	-7.98	113.01	117.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	341	G	N1-C6-O6	7.98	124.69	119.90
29	B1	1419	A	C8-N9-C4	-7.98	102.61	105.80
1	C1	1220	C	C2-N1-C1'	7.98	127.58	118.80
29	B1	1168	U	C5-C6-N1	-7.97	118.71	122.70
43	DN	73	PRO	N-CA-CB	7.97	112.87	103.30
29	B1	2989	U	C5-C6-N1	-7.97	118.72	122.70
1	A1	1173	C	C6-N1-C2	7.97	123.49	120.30
29	B1	2362	C	C5-C6-N1	-7.97	117.02	121.00
29	B1	3323	A	C6-N1-C2	7.97	123.38	118.60
29	B1	608	A	N1-C6-N6	7.97	123.38	118.60
29	D1	2289	U	C5-C6-N1	-7.96	118.72	122.70
29	D1	3390	G	C4-N9-C1'	7.96	136.85	126.50
29	D1	3300	U	C5-C4-O4	7.96	130.68	125.90
29	D1	3314	A	C6-N1-C2	-7.96	113.83	118.60
1	A1	1486	G	N1-C6-O6	7.96	124.67	119.90
1	C1	1024	U	C5-C6-N1	-7.96	118.72	122.70
29	B1	882	A	N1-C6-N6	-7.95	113.83	118.60
29	B1	1387	G	C6-C5-N7	-7.95	125.63	130.40
29	B1	395	A	N1-C6-N6	-7.95	113.83	118.60
1	A1	1453	G	C8-N9-C4	7.95	109.58	106.40
29	B1	503	C	C6-N1-C1'	7.95	130.34	120.80
29	B1	3143	C	C2-N3-C4	7.95	123.87	119.90
29	B1	2913	C	N1-C2-O2	-7.95	114.13	118.90
16	CO	95	PRO	N-CA-CB	7.95	112.83	103.30
29	D1	3328	G	C8-N9-C4	7.95	109.58	106.40
45	BP	121	PRO	N-CA-CB	7.94	112.83	103.30
29	B1	518	G	N3-C4-N9	-7.94	121.24	126.00
29	D1	729	C	C5-C4-N4	-7.94	114.64	120.20
29	D1	1312	C	N1-C2-N3	7.94	124.76	119.20
29	B1	2882	U	C2-N1-C1'	7.94	127.23	117.70
29	D1	32	U	C2-N3-C4	-7.94	122.24	127.00
29	B1	402	A	C6-C5-N7	-7.93	126.75	132.30
29	D1	634	C	C6-N1-C2	7.93	123.47	120.30
29	D1	3266	G	N3-C4-N9	7.93	130.76	126.00
1	C1	1408	G	N3-C4-C5	-7.93	124.64	128.60
29	B1	89	A	C2-N3-C4	-7.92	106.64	110.60
29	D1	2889	C	N1-C2-O2	-7.92	114.15	118.90
29	B1	575	G	N3-C2-N2	-7.92	114.36	119.90
29	B1	1661	G	C6-C5-N7	-7.92	125.65	130.40
29	D1	3242	G	C8-N9-C4	-7.92	103.23	106.40
29	D1	380	U	C2-N1-C1'	-7.92	108.20	117.70
29	D1	2122	G	N1-C6-O6	7.91	124.65	119.90

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2811	A	N1-C6-N6	-7.91	113.85	118.60
29	B1	992	A	C8-N9-C4	-7.91	102.64	105.80
29	D1	941	G	C4-C5-N7	-7.91	107.64	110.80
29	B1	1884	A	C2-N3-C4	-7.91	106.65	110.60
29	B1	886	C	C5-C6-N1	-7.90	117.05	121.00
1	C1	1725	U	C2-N1-C1'	7.90	127.18	117.70
29	D1	1897	G	C4-C5-N7	7.90	113.96	110.80
29	B1	52	A	C6-C5-N7	-7.90	126.77	132.30
29	B1	723	U	N3-C4-O4	7.90	124.93	119.40
29	B1	1065	A	C2-N3-C4	7.90	114.55	110.60
29	B1	3314	A	C8-N9-C4	-7.90	102.64	105.80
29	D1	3132	C	N1-C2-O2	-7.90	114.16	118.90
29	D1	3291	G	N1-C2-N2	-7.90	109.09	116.20
1	A1	569	C	C6-N1-C2	7.89	123.46	120.30
1	A1	1141	G	C8-N9-C1'	-7.89	116.74	127.00
45	DP	121	PRO	N-CA-CB	7.89	112.76	103.30
29	D1	370	U	C2-N1-C1'	-7.88	108.24	117.70
29	D1	777	U	C5-C4-O4	-7.88	121.17	125.90
29	B1	3090	U	C5-C4-O4	-7.88	121.17	125.90
29	B1	513	G	C5-C6-N1	-7.88	107.56	111.50
29	D1	1193	A	N1-C6-N6	7.88	123.33	118.60
29	B1	537	A	N1-C6-N6	-7.87	113.88	118.60
1	A1	374	U	C5-C4-O4	-7.87	121.18	125.90
29	B1	654	C	C5-C6-N1	-7.87	117.06	121.00
29	D1	676	G	C4-N9-C1'	7.87	136.73	126.50
29	D1	3342	A	C5-C6-N1	7.87	121.64	117.70
29	B1	308	A	C5-C6-N6	-7.87	117.40	123.70
29	B1	424	G	C6-C5-N7	-7.87	125.68	130.40
29	D1	1661	G	C4-N9-C1'	7.87	136.72	126.50
29	B1	1500	G	N1-C6-O6	-7.86	115.18	119.90
29	D1	3143	C	C5-C4-N4	-7.86	114.70	120.20
29	B1	3390	G	N3-C4-C5	-7.86	124.67	128.60
29	B1	1897	G	C5-C6-O6	-7.86	123.89	128.60
31	D3	34	U	C3'-C2'-C1'	-7.86	95.21	101.50
29	B1	2391	G	C4-C5-N7	7.86	113.94	110.80
29	D1	390	G	C4-N9-C1'	-7.85	116.29	126.50
29	B1	877	C	C6-N1-C2	-7.85	117.16	120.30
29	D1	923	C	C6-N1-C2	7.85	123.44	120.30
29	B1	341	G	C6-C5-N7	-7.85	125.69	130.40
29	B1	2290	C	N1-C2-O2	-7.85	114.19	118.90
29	B1	1178	G	C2-N3-C4	7.85	115.82	111.90
29	D1	1124	U	C2-N1-C1'	7.85	127.12	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1579	U	C5-C4-O4	-7.85	121.19	125.90
29	B1	422	A	C4-N9-C1'	-7.84	112.18	126.30
29	D1	577	C	C5-C4-N4	-7.84	114.71	120.20
29	B1	340	C	C6-N1-C2	-7.84	117.16	120.30
29	B1	625	G	C8-N9-C4	7.84	109.54	106.40
29	B1	782	U	C5-C4-O4	-7.84	121.19	125.90
1	C1	1073	G	C5-C6-N1	7.84	115.42	111.50
29	D1	2811	A	C5-C6-N6	7.84	129.97	123.70
1	A1	358	U	N1-C2-O2	7.84	128.29	122.80
29	B1	2611	U	C5-C4-O4	7.84	130.60	125.90
30	B2	47	C	C6-N1-C1'	-7.84	111.40	120.80
1	C1	1788	G	N3-C2-N2	-7.84	114.42	119.90
29	D1	389	A	C6-N1-C2	7.84	123.30	118.60
29	D1	3376	A	N7-C8-N9	-7.83	109.88	113.80
29	B1	2184	U	C5-C4-O4	-7.83	121.20	125.90
29	D1	2331	C	C6-N1-C2	7.83	123.43	120.30
29	D1	2845	A	C2-N3-C4	-7.83	106.68	110.60
29	D1	2889	C	N3-C2-O2	7.83	127.38	121.90
29	D1	2380	U	N1-C2-N3	7.83	119.60	114.90
29	B1	1917	C	N3-C2-O2	7.83	127.38	121.90
29	D1	429	U	N1-C2-O2	-7.82	117.32	122.80
29	B1	1928	G	C8-N9-C4	7.82	109.53	106.40
29	B1	42	C	C6-N1-C2	7.82	123.43	120.30
29	B1	299	G	N1-C6-O6	7.82	124.59	119.90
29	B1	685	G	C4-N9-C1'	7.82	136.66	126.50
1	C1	1541	G	C6-C5-N7	-7.82	125.71	130.40
29	D1	2867	C	N1-C2-O2	-7.82	114.21	118.90
29	D1	3213	A	N9-C4-C5	-7.82	102.67	105.80
29	B1	504	A	N9-C4-C5	-7.81	102.67	105.80
29	B1	3181	C	C2-N1-C1'	7.81	127.39	118.80
29	D1	1212	A	N7-C8-N9	7.81	117.70	113.80
29	B1	1661	G	C4-N9-C1'	7.81	136.65	126.50
29	B1	424	G	C5-C6-O6	-7.81	123.92	128.60
1	C1	869	A	C5-C6-N1	7.80	121.60	117.70
1	C1	1159	C	C2-N1-C1'	7.80	127.38	118.80
29	D1	2689	A	N9-C4-C5	7.80	108.92	105.80
29	B1	3054	U	N1-C2-O2	7.79	128.25	122.80
29	B1	2671	A	N1-C6-N6	7.79	123.27	118.60
29	B1	640	U	N3-C4-C5	-7.79	109.93	114.60
29	B1	561	C	N1-C2-O2	-7.79	114.23	118.90
29	B1	3179	U	C2-N3-C4	7.79	131.67	127.00
1	C1	1244	A	N1-C6-N6	-7.79	113.93	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1331	A	N1-C6-N6	-7.79	113.93	118.60
29	B1	390	G	N3-C4-C5	7.78	132.49	128.60
29	D1	3108	G	N9-C4-C5	7.78	108.51	105.40
29	B1	50	U	N3-C2-O2	-7.78	116.75	122.20
29	B1	1432	C	C2-N1-C1'	7.78	127.36	118.80
29	B1	3297	U	C2-N3-C4	-7.78	122.33	127.00
29	D1	3138	U	C5-C4-O4	-7.78	121.23	125.90
29	B1	2353	G	C4-C5-N7	7.78	113.91	110.80
29	B1	3272	C	N3-C4-C5	-7.77	118.79	121.90
29	B1	1327	C	N3-C4-C5	7.77	125.01	121.90
29	D1	2262	A	N7-C8-N9	7.77	117.69	113.80
29	D1	2667	A	N1-C2-N3	-7.77	125.42	129.30
29	D1	2897	A	C5-C6-N1	7.76	121.58	117.70
29	B1	3392	U	C6-N1-C1'	-7.76	110.33	121.20
1	C1	1541	G	C8-N9-C1'	-7.76	116.91	127.00
29	D1	816	A	C2-N3-C4	7.76	114.48	110.60
29	D1	1160	C	C2-N3-C4	7.76	123.78	119.90
29	D1	1710	C	C2-N1-C1'	7.76	127.34	118.80
29	D1	2964	G	N1-C6-O6	-7.76	115.25	119.90
29	D1	3242	G	C2-N3-C4	7.76	115.78	111.90
29	D1	3243	A	C5-C6-N1	7.76	121.58	117.70
57	Db	68	PRO	N-CA-CB	7.76	112.61	103.30
29	D1	3391	A	C5-C6-N6	-7.75	117.50	123.70
30	D2	47	C	C4-C5-C6	-7.75	113.52	117.40
29	D1	2919	A	N7-C8-N9	7.75	117.68	113.80
29	B1	3000	A	C6-N1-C2	7.75	123.25	118.60
29	D1	2283	G	C2-N3-C4	-7.75	108.03	111.90
29	D1	3324	C	C2-N1-C1'	7.75	127.32	118.80
29	B1	404	G	C4-N9-C1'	7.75	136.57	126.50
29	D1	2358	A	N7-C8-N9	-7.74	109.93	113.80
29	B1	744	A	C4-C5-N7	-7.74	106.83	110.70
29	D1	1208	U	N1-C2-O2	7.74	128.22	122.80
1	A1	45	U	N3-C4-O4	7.74	124.82	119.40
29	D1	978	G	C8-N9-C1'	-7.73	116.95	127.00
29	B1	88	A	C8-N9-C4	7.73	108.89	105.80
29	D1	3322	A	C5-C6-N1	-7.73	113.83	117.70
29	D1	505	G	C4-N9-C1'	-7.73	116.45	126.50
29	D1	1171	G	C8-N9-C4	-7.73	103.31	106.40
29	D1	589	A	C2-N3-C4	7.72	114.46	110.60
29	D1	3173	G	N3-C4-C5	7.72	132.46	128.60
29	B1	2283	G	N1-C6-O6	7.72	124.53	119.90
1	C1	1459	C	C5-C6-N1	-7.72	117.14	121.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	125	C	C6-N1-C1'	-7.71	111.55	120.80
29	D1	1192	C	C6-N1-C1'	-7.71	111.55	120.80
29	D1	2883	U	C5-C6-N1	-7.71	118.84	122.70
29	D1	1123	U	N1-C2-O2	-7.71	117.40	122.80
29	D1	1207	G	C4-C5-N7	7.71	113.88	110.80
29	B1	92	G	N3-C4-N9	7.71	130.62	126.00
29	D1	1178	G	C8-N9-C4	-7.71	103.32	106.40
29	D1	3390	G	N3-C4-C5	-7.70	124.75	128.60
29	B1	3300	U	N3-C2-O2	-7.70	116.81	122.20
29	B1	2391	G	N3-C4-C5	7.70	132.45	128.60
29	B1	3176	G	C5-C6-N1	-7.69	107.65	111.50
1	A1	1085	G	C8-N9-C4	7.69	109.48	106.40
29	B1	2851	A	N1-C6-N6	-7.69	113.98	118.60
29	B1	1610	G	C5-N7-C8	-7.69	100.45	104.30
29	D1	2906	C	C5-C6-N1	-7.69	117.16	121.00
29	D1	2289	U	C2-N3-C4	-7.69	122.39	127.00
29	B1	729	C	C6-N1-C1'	-7.68	111.58	120.80
1	C1	825	U	N1-C2-O2	-7.68	117.42	122.80
29	D1	2355	G	N3-C4-N9	7.68	130.61	126.00
29	D1	3226	A	C5-C6-N1	-7.68	113.86	117.70
29	B1	1409	G	C5-C6-N1	7.68	115.34	111.50
1	C1	846	G	C5-C6-O6	7.68	133.21	128.60
29	B1	661	G	C2-N3-C4	-7.68	108.06	111.90
1	A1	1620	C	N3-C2-O2	-7.68	116.53	121.90
29	B1	1648	A	C2-N3-C4	7.68	114.44	110.60
29	B1	597	G	C4-C5-N7	7.67	113.87	110.80
29	B1	2354	C	N1-C2-O2	7.67	123.50	118.90
29	D1	390	G	C8-N9-C1'	7.67	136.98	127.00
29	B1	215	G	C8-N9-C4	-7.67	103.33	106.40
29	D1	2669	G	C6-C5-N7	-7.67	125.80	130.40
29	D1	3103	A	C6-N1-C2	-7.67	114.00	118.60
29	B1	574	U	N3-C2-O2	7.67	127.57	122.20
29	B1	1432	C	C5-C6-N1	7.67	124.83	121.00
29	B1	3103	A	N3-C4-C5	-7.66	121.44	126.80
29	D1	1208	U	N3-C4-O4	-7.66	114.03	119.40
29	D1	963	G	C8-N9-C1'	-7.66	117.04	127.00
29	D1	1192	C	C5-C6-N1	7.66	124.83	121.00
31	B3	87	G	N3-C4-N9	7.66	130.59	126.00
29	B1	1323	G	C8-N9-C4	-7.65	103.34	106.40
29	B1	3314	A	C6-N1-C2	-7.65	114.01	118.60
29	B1	1123	U	N1-C2-O2	-7.65	117.44	122.80
1	A1	358	U	C2-N1-C1'	7.65	126.88	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1725	U	C2-N1-C1'	7.65	126.88	117.70
29	B1	1434	G	C8-N9-C4	7.65	109.46	106.40
29	B1	2835	U	C5-C4-O4	-7.65	121.31	125.90
29	D1	583	G	N1-C6-O6	-7.64	115.31	119.90
29	D1	1928	G	N3-C4-C5	7.64	132.42	128.60
1	A1	1591	C	C2-N1-C1'	-7.64	110.40	118.80
29	D1	1120	A	C6-N1-C2	-7.64	114.02	118.60
29	D1	2390	A	N9-C4-C5	7.64	108.86	105.80
29	B1	1151	U	N3-C4-O4	7.64	124.75	119.40
29	B1	390	G	C8-N9-C1'	7.64	136.93	127.00
29	B1	1322	U	N3-C4-C5	-7.63	110.02	114.60
29	D1	513	G	C8-N9-C1'	7.63	136.93	127.00
29	D1	752	C	C2-N1-C1'	7.63	127.20	118.80
29	B1	3143	C	C6-N1-C2	-7.63	117.25	120.30
31	B3	92	A	C5-C6-N1	-7.63	113.88	117.70
29	D1	2706	G	N1-C6-O6	-7.63	115.32	119.90
29	B1	421	G	C4-N9-C1'	7.63	136.41	126.50
31	D3	68	G	N3-C4-N9	-7.63	121.42	126.00
29	D1	1175	C	C5-C6-N1	-7.62	117.19	121.00
29	B1	244	G	C4-C5-C6	7.62	123.37	118.80
29	B1	556	U	N3-C2-O2	-7.62	116.86	122.20
29	B1	1439	U	C5-C4-O4	-7.62	121.33	125.90
29	D1	3108	G	C8-N9-C1'	7.62	136.91	127.00
29	B1	574	U	C5-C4-O4	-7.62	121.33	125.90
29	B1	2115	G	C5-N7-C8	-7.62	100.49	104.30
29	D1	1097	G	C5-C6-O6	7.62	133.17	128.60
29	D1	1331	U	C5-C6-N1	-7.62	118.89	122.70
29	B1	370	U	C2-N1-C1'	-7.61	108.56	117.70
29	B1	3054	U	N3-C2-O2	-7.61	116.87	122.20
29	D1	2391	G	C4-C5-N7	7.61	113.84	110.80
29	B1	751	A	C5-C6-N1	7.61	121.50	117.70
29	B1	3390	G	C8-N9-C1'	-7.61	117.11	127.00
44	BO	84	PRO	N-CA-CB	7.61	112.43	103.30
29	D1	341	G	N1-C6-O6	7.61	124.46	119.90
30	D2	10	C	C2-N1-C1'	7.61	127.17	118.80
29	D1	718	G	N3-C4-C5	-7.60	124.80	128.60
29	B1	3342	A	C5-C6-N1	7.60	121.50	117.70
1	C1	1595	U	N3-C4-O4	7.60	124.72	119.40
29	B1	390	G	C4-N9-C1'	-7.60	116.62	126.50
29	B1	726	G	N3-C4-C5	-7.60	124.80	128.60
29	B1	3303	G	C2-N3-C4	7.60	115.70	111.90
29	B1	584	G	C8-N9-C4	7.59	109.44	106.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	505	G	C6-C5-N7	7.59	134.96	130.40
29	B1	1420	C	N3-C4-C5	7.59	124.94	121.90
1	C1	647	G	C5-C6-N1	7.59	115.30	111.50
1	A1	1418	G	C5-C6-O6	-7.59	124.05	128.60
29	D1	3099	C	N1-C2-N3	-7.59	113.89	119.20
29	D1	3291	G	C8-N9-C1'	-7.59	117.14	127.00
29	B1	1060	U	C2-N1-C1'	7.59	126.81	117.70
29	B1	3263	G	N1-C6-O6	-7.59	115.35	119.90
29	D1	3235	C	C2-N3-C4	-7.58	116.11	119.90
1	A1	1606	C	C6-N1-C2	7.58	123.33	120.30
31	B3	93	U	C6-N1-C2	7.58	125.55	121.00
29	B1	978	G	N3-C4-N9	7.58	130.55	126.00
29	B1	2335	G	N1-C6-O6	-7.58	115.35	119.90
29	D1	1388	U	N1-C2-O2	-7.58	117.49	122.80
29	D1	2331	C	C2-N1-C1'	-7.58	110.46	118.80
29	D1	3059	G	C4-C5-N7	7.58	113.83	110.80
29	B1	2380	U	C2-N3-C4	-7.58	122.45	127.00
29	B1	2990	G	C2-N3-C4	-7.58	108.11	111.90
29	B1	3391	A	N1-C6-N6	7.58	123.15	118.60
29	B1	1292	C	N1-C2-O2	-7.58	114.36	118.90
29	B1	2277	C	C2-N3-C4	-7.57	116.11	119.90
29	B1	2341	A	C8-N9-C4	7.57	108.83	105.80
29	D1	1314	C	N1-C2-O2	7.57	123.44	118.90
29	D1	1480	G	C4-C5-N7	7.57	113.83	110.80
29	D1	2331	C	C5-C6-N1	-7.57	117.22	121.00
30	D2	49	G	C2-N3-C4	7.57	115.68	111.90
29	B1	2636	A	N1-C2-N3	7.57	133.08	129.30
29	B1	3103	A	C6-N1-C2	-7.57	114.06	118.60
29	D1	978	G	C4-N9-C1'	7.57	136.34	126.50
29	B1	1318	A	C5-C6-N1	7.56	121.48	117.70
29	B1	2993	G	C6-C5-N7	7.56	134.94	130.40
1	A1	54	C	C6-N1-C2	7.56	123.33	120.30
29	B1	3207	U	N3-C4-O4	-7.56	114.11	119.40
29	D1	1327	C	C5-C6-N1	-7.56	117.22	121.00
29	D1	3265	C	N1-C2-O2	7.56	123.44	118.90
29	B1	2993	G	C8-N9-C4	-7.56	103.38	106.40
29	B1	787	G	C6-C5-N7	-7.55	125.87	130.40
29	B1	3392	U	N1-C2-N3	7.55	119.43	114.90
29	D1	625	G	C5-C6-N1	-7.55	107.72	111.50
29	D1	366	A	C8-N9-C4	7.55	108.82	105.80
29	D1	3000	A	C6-N1-C2	7.55	123.13	118.60
29	B1	2247	G	C6-C5-N7	-7.55	125.87	130.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1323	G	N7-C8-N9	7.55	116.88	113.10
29	D1	125	C	C6-N1-C1'	-7.55	111.74	120.80
29	B1	659	G	N3-C4-N9	7.55	130.53	126.00
29	B1	1085	A	C8-N9-C4	-7.55	102.78	105.80
30	B2	13	A	C8-N9-C1'	7.55	141.28	127.70
29	D1	1450	G	N9-C4-C5	-7.55	102.38	105.40
29	D1	2752	U	N3-C2-O2	-7.55	116.92	122.20
29	D1	3314	A	N1-C2-N3	7.55	133.07	129.30
29	D1	95	A	C8-N9-C4	7.54	108.82	105.80
29	D1	647	A	C2-N3-C4	-7.54	106.83	110.60
29	D1	2957	G	N3-C4-C5	7.54	132.37	128.60
1	A1	1220	C	C2-N1-C1'	7.54	127.09	118.80
29	B1	3266	G	C4-C5-N7	-7.54	107.78	110.80
1	A1	1073	G	N3-C4-C5	-7.54	124.83	128.60
29	B1	1751	G	N3-C4-C5	-7.53	124.83	128.60
29	B1	2358	A	N7-C8-N9	-7.53	110.03	113.80
29	D1	2392	C	N3-C4-C5	7.53	124.91	121.90
29	D1	2646	C	C6-N1-C2	7.53	123.31	120.30
29	D1	3342	A	C6-N1-C2	-7.53	114.08	118.60
29	D1	2302	G	N3-C4-C5	7.53	132.36	128.60
1	A1	1541	G	C4-N9-C1'	7.53	136.28	126.50
1	A1	63	G	C4-C5-N7	-7.52	107.79	110.80
29	B1	2201	G	N1-C6-O6	7.52	124.42	119.90
29	D1	3213	A	C4-C5-N7	7.52	114.46	110.70
29	B1	3220	G	N7-C8-N9	7.52	116.86	113.10
29	B1	434	U	N1-C2-O2	-7.52	117.54	122.80
29	B1	3273	A	C8-N9-C4	-7.52	102.79	105.80
29	D1	2398	A	C5-C6-N6	-7.52	117.69	123.70
29	B1	790	U	C5-C6-N1	-7.52	118.94	122.70
29	B1	638	C	C6-N1-C2	7.51	123.31	120.30
29	B1	428	A	C6-C5-N7	-7.51	127.04	132.30
30	D2	66	A	N3-C4-C5	7.51	132.06	126.80
1	C1	1045	C	N3-C2-O2	-7.51	116.64	121.90
29	B1	1710	C	C2-N1-C1'	7.51	127.06	118.80
29	D1	1547	G	N3-C4-N9	7.51	130.50	126.00
29	D1	1899	G	N7-C8-N9	-7.51	109.35	113.10
29	D1	3035	A	N3-C4-N9	7.50	133.40	127.40
29	B1	1892	G	C4-C5-N7	-7.50	107.80	110.80
29	B1	2683	U	C2-N1-C1'	7.50	126.70	117.70
29	B1	2835	U	N3-C4-O4	7.50	124.65	119.40
29	D1	29	C	N3-C2-O2	7.50	127.15	121.90
29	B1	1152	G	C5-C6-N1	-7.50	107.75	111.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1363	A	C4-C5-C6	-7.50	113.25	117.00
29	B1	3188	G	N9-C4-C5	-7.50	102.40	105.40
29	D1	1432	C	C2-N1-C1'	7.50	127.05	118.80
29	D1	1547	G	N9-C4-C5	-7.50	102.40	105.40
1	A1	517	U	C5-C6-N1	-7.49	118.95	122.70
29	B1	573	C	N1-C2-O2	-7.49	114.40	118.90
29	D1	3307	A	C2-N3-C4	-7.49	106.85	110.60
29	B1	1661	G	C8-N9-C1'	-7.49	117.26	127.00
29	D1	2876	C	C2-N3-C4	-7.49	116.15	119.90
29	D1	3181	C	C2-N1-C1'	7.49	127.04	118.80
29	B1	750	G	C6-C5-N7	7.49	134.90	130.40
29	B1	3120	C	C6-N1-C2	7.49	123.30	120.30
29	B1	3250	U	C5-C6-N1	-7.49	118.95	122.70
58	Bc	39	PRO	N-CA-CB	7.49	112.29	103.30
29	D1	509	U	C5-C4-O4	7.48	130.39	125.90
29	D1	625	G	C2-N3-C4	-7.48	108.16	111.90
29	B1	1152	G	C2-N3-C4	-7.48	108.16	111.90
29	B1	2618	G	C5-C6-O6	7.48	133.09	128.60
29	B1	299	G	C6-C5-N7	-7.48	125.91	130.40
29	B1	424	G	C4-C5-N7	7.48	113.79	110.80
29	B1	432	G	N1-C6-O6	7.48	124.39	119.90
29	B1	2957	G	N3-C4-N9	-7.48	121.51	126.00
29	B1	654	C	C2-N3-C4	-7.47	116.16	119.90
29	B1	1459	C	C2-N3-C4	-7.47	116.16	119.90
30	D2	66	A	N3-C4-N9	-7.47	121.42	127.40
30	D2	111	U	C5-C6-N1	7.47	126.44	122.70
1	A1	1620	C	N1-C2-O2	7.47	123.38	118.90
29	B1	2241	U	C5-C4-O4	7.47	130.38	125.90
29	D1	517	G	N9-C4-C5	7.47	108.39	105.40
29	D1	744	A	N1-C6-N6	-7.47	114.12	118.60
1	A1	517	U	C5-C4-O4	7.47	130.38	125.90
29	B1	2823	G	C6-C5-N7	7.46	134.88	130.40
29	D1	895	A	C8-N9-C4	-7.46	102.81	105.80
42	DK	8	PRO	N-CA-CB	7.46	112.26	103.30
47	BR	143	PRO	N-CA-CB	7.46	112.25	103.30
29	B1	3188	G	C8-N9-C4	7.46	109.38	106.40
29	D1	875	G	C8-N9-C1'	-7.46	117.31	127.00
29	B1	3176	G	C6-N1-C2	7.46	129.57	125.10
29	B1	3376	A	N1-C6-N6	-7.46	114.13	118.60
1	C1	1535	U	C5-C6-N1	7.46	126.43	122.70
29	D1	52	A	N3-C4-N9	7.46	133.36	127.40
29	D1	608	A	N1-C6-N6	7.45	123.07	118.60

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	107	A	C8-N9-C4	-7.45	102.82	105.80
29	B1	364	G	N9-C4-C5	-7.45	102.42	105.40
29	B1	1907	C	C5-C6-N1	-7.45	117.27	121.00
29	D1	102	C	C6-N1-C2	-7.45	117.32	120.30
29	D1	3212	C	C5-C4-N4	7.45	125.41	120.20
29	B1	946	U	C2-N1-C1'	7.45	126.64	117.70
57	Bb	123	LYS	N-CA-C	-7.45	90.89	111.00
29	B1	2929	C	C5-C4-N4	-7.45	114.99	120.20
29	D1	1296	C	C6-N1-C2	-7.45	117.32	120.30
1	A1	13	C	C2-N1-C1'	7.44	126.98	118.80
29	B1	1124	U	N1-C2-O2	7.44	128.01	122.80
29	D1	1054	A	C8-N9-C4	7.44	108.78	105.80
29	D1	1434	G	N9-C4-C5	-7.44	102.42	105.40
44	DO	137	PRO	N-CA-CB	7.44	112.23	103.30
29	B1	2147	A	N1-C6-N6	7.44	123.06	118.60
29	B1	531	G	N3-C2-N2	-7.44	114.69	119.90
29	D1	1111	U	C2-N1-C1'	-7.44	108.78	117.70
29	D1	1192	C	N1-C2-O2	7.44	123.36	118.90
29	D1	1342	C	C5-C6-N1	-7.44	117.28	121.00
29	B1	1432	C	C6-N1-C2	-7.43	117.33	120.30
29	D1	3376	A	C2-N3-C4	7.43	114.32	110.60
1	A1	1159	C	C2-N1-C1'	7.43	126.97	118.80
29	D1	404	G	C4-N9-C1'	7.43	136.16	126.50
29	D1	1065	A	C2-N3-C4	7.43	114.31	110.60
29	B1	89	A	C4-C5-N7	7.43	114.41	110.70
1	C1	338	C	C2-N1-C1'	7.43	126.97	118.80
29	D1	2662	G	C4-C5-N7	7.43	113.77	110.80
29	D1	3059	G	C5-C6-O6	-7.43	124.14	128.60
1	C1	1455	G	C8-N9-C4	-7.42	103.43	106.40
29	D1	2701	U	C5-C4-O4	-7.42	121.44	125.90
29	D1	2757	U	N1-C2-O2	-7.42	117.60	122.80
29	B1	3132	C	N3-C2-O2	7.42	127.10	121.90
29	B1	345	G	C5-C6-N1	-7.42	107.79	111.50
29	B1	1855	U	N1-C2-O2	7.42	128.00	122.80
29	B1	885	U	C5-C6-N1	-7.42	118.99	122.70
29	B1	2283	G	N3-C4-N9	-7.42	121.55	126.00
1	C1	16	G	N3-C4-N9	7.42	130.45	126.00
29	D1	3291	G	C4-N9-C1'	7.42	136.14	126.50
30	D2	113	C	C4-C5-C6	7.42	121.11	117.40
1	A1	1073	G	C4-N9-C1'	7.42	136.14	126.50
42	BK	8	PRO	N-CA-CB	7.41	112.20	103.30
29	D1	2892	A	N1-C6-N6	7.41	123.05	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1234	A	C5-C6-N1	-7.41	114.00	117.70
29	B1	645	A	N9-C4-C5	7.41	108.76	105.80
29	B1	1677	G	C5-C6-O6	7.41	133.04	128.60
29	D1	1187	C	N1-C2-O2	-7.41	114.45	118.90
29	D1	3108	G	N3-C4-N9	-7.41	121.56	126.00
29	D1	287	G	N1-C6-O6	7.41	124.34	119.90
29	D1	3390	G	C8-N9-C1'	-7.41	117.37	127.00
1	A1	1028	C	C6-N1-C1'	-7.40	111.92	120.80
29	D1	3314	A	C4-C5-C6	7.40	120.70	117.00
29	D1	669	U	C2-N1-C1'	7.40	126.58	117.70
1	A1	610	G	N7-C8-N9	7.40	116.80	113.10
1	A1	1421	A	N1-C6-N6	-7.40	114.16	118.60
29	B1	581	U	N3-C2-O2	-7.40	117.02	122.20
31	D3	87	G	N3-C4-C5	-7.40	124.90	128.60
29	B1	867	G	C5-C6-N1	-7.40	107.80	111.50
47	DR	143	PRO	N-CA-CB	7.40	112.18	103.30
30	B2	15	C	C5-C4-N4	-7.40	115.02	120.20
29	D1	577	C	N3-C4-C5	-7.40	118.94	121.90
1	A1	1772	C	C6-N1-C2	7.39	123.26	120.30
29	B1	503	C	C6-N1-C2	-7.39	117.34	120.30
56	Da	53	PRO	N-CA-CB	7.39	112.17	103.30
29	B1	3226	A	N1-C6-N6	-7.39	114.16	118.60
29	D1	614	C	N3-C4-C5	7.39	124.86	121.90
29	D1	2892	A	C2-N3-C4	-7.39	106.90	110.60
29	D1	3386	G	C5-C6-N1	-7.39	107.80	111.50
1	A1	1141	G	C4-N9-C1'	7.39	136.11	126.50
29	B1	1335	C	N1-C2-O2	-7.39	114.47	118.90
29	D1	503	C	C6-N1-C1'	7.39	129.67	120.80
29	D1	1367	G	C2-N3-C4	-7.39	108.21	111.90
1	A1	1121	C	N1-C2-O2	-7.39	114.47	118.90
29	B1	3035	A	C5-C6-N1	7.39	121.39	117.70
1	C1	427	C	N3-C2-O2	7.39	127.07	121.90
29	D1	588	G	N3-C2-N2	-7.39	114.73	119.90
29	B1	873	C	N3-C2-O2	7.38	127.07	121.90
29	B1	2115	G	C5-C6-O6	-7.38	124.17	128.60
1	C1	55	A	N1-C6-N6	-7.38	114.17	118.60
29	D1	3137	C	N3-C4-C5	7.38	124.85	121.90
29	D1	723	U	N3-C4-O4	7.38	124.57	119.40
29	B1	2667	A	N1-C6-N6	-7.38	114.17	118.60
29	D1	3300	U	N3-C2-O2	-7.38	117.03	122.20
29	D1	2851	A	N1-C6-N6	-7.38	114.17	118.60
29	D1	963	G	C5-C6-O6	-7.38	124.17	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3386	G	C4-N9-C1'	7.38	136.09	126.50
29	B1	3212	C	C2-N3-C4	-7.38	116.21	119.90
29	D1	1855	U	N1-C2-O2	7.38	127.96	122.80
29	D1	3207	U	N1-C2-N3	7.38	119.33	114.90
29	B1	3211	C	N3-C2-O2	7.38	127.06	121.90
1	C1	79	C	C2-N1-C1'	7.37	126.91	118.80
29	D1	94	G	N9-C4-C5	7.37	108.35	105.40
29	D1	3138	U	N3-C4-O4	7.37	124.56	119.40
29	D1	3093	C	C6-N1-C2	7.37	123.25	120.30
1	C1	1579	U	C5-C4-O4	-7.37	121.48	125.90
31	B3	68	G	N3-C4-N9	-7.36	121.58	126.00
1	C1	54	C	N3-C4-C5	7.36	124.84	121.90
29	D1	2339	C	C2-N1-C1'	7.36	126.90	118.80
29	D1	3192	U	N3-C2-O2	7.36	127.35	122.20
1	A1	1547	A	C8-N9-C4	7.36	108.75	105.80
29	B1	1610	G	C5-C6-O6	-7.36	124.18	128.60
29	D1	1193	A	C5-C6-N6	-7.36	117.81	123.70
29	D1	2992	U	C5-C4-O4	-7.36	121.48	125.90
29	B1	29	C	N3-C2-O2	7.36	127.05	121.90
29	B1	2683	U	C6-N1-C1'	-7.36	110.90	121.20
38	BG	97	PRO	N-CA-CB	7.36	112.13	103.30
1	A1	1421	A	N3-C4-C5	-7.36	121.65	126.80
29	B1	2960	C	C6-N1-C2	7.36	123.24	120.30
29	D1	2665	U	N3-C4-C5	7.36	119.01	114.60
29	D1	3035	A	C6-C5-N7	-7.36	127.15	132.30
29	D1	3096	C	N1-C2-O2	-7.36	114.49	118.90
29	B1	917	A	N1-C6-N6	-7.35	114.19	118.60
29	B1	52	A	C6-N1-C2	-7.35	114.19	118.60
29	B1	537	A	C5-C6-N6	7.35	129.58	123.70
29	B1	687	U	C6-N1-C1'	7.35	131.49	121.20
29	B1	2395	G	N7-C8-N9	7.35	116.78	113.10
29	D1	1426	C	C6-N1-C2	7.35	123.24	120.30
29	D1	2419	A	N1-C6-N6	7.35	123.01	118.60
29	D1	2882	U	C5-C6-N1	7.35	126.37	122.70
29	B1	1902	G	C8-N9-C1'	-7.35	117.45	127.00
29	D1	435	C	C6-N1-C2	7.35	123.24	120.30
29	D1	2876	C	C6-N1-C2	7.35	123.24	120.30
29	D1	2993	G	C8-N9-C4	-7.34	103.46	106.40
29	D1	2946	A	C8-N9-C4	-7.34	102.86	105.80
29	B1	1320	C	N3-C4-N4	7.34	123.14	118.00
1	C1	979	A	N1-C6-N6	-7.34	114.19	118.60
29	D1	2906	C	C6-N1-C2	7.34	123.24	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2681	U	N1-C2-N3	-7.34	110.50	114.90
43	BN	49	PRO	N-CA-CB	7.34	112.10	103.30
29	D1	422	A	N7-C8-N9	-7.34	110.13	113.80
29	B1	3257	C	C5-C6-N1	-7.33	117.33	121.00
29	B1	193	C	C6-N1-C2	-7.33	117.37	120.30
29	B1	511	G	N3-C4-N9	-7.33	121.60	126.00
30	D2	92	A	C8-N9-C4	7.33	108.73	105.80
29	D1	189	G	N1-C6-O6	-7.33	115.50	119.90
56	Ba	53	PRO	N-CA-CB	7.33	112.09	103.30
29	B1	500	C	C6-N1-C1'	-7.32	112.01	120.80
29	D1	1501	U	C2-N1-C1'	-7.32	108.91	117.70
29	D1	2420	C	C6-N1-C2	-7.32	117.37	120.30
29	B1	422	A	C8-N9-C4	7.32	108.73	105.80
29	B1	3320	A	C6-N1-C2	7.32	122.99	118.60
1	C1	1733	C	C6-N1-C2	7.32	123.23	120.30
29	D1	3132	C	C5-C6-N1	-7.32	117.34	121.00
29	D1	504	A	C6-C5-N7	-7.32	127.18	132.30
29	D1	2823	G	N3-C4-N9	-7.32	121.61	126.00
29	D1	3244	A	C4-C5-C6	-7.32	113.34	117.00
29	D1	2827	U	N3-C2-O2	-7.31	117.08	122.20
29	B1	651	G	C8-N9-C4	7.31	109.32	106.40
29	B1	3297	U	N1-C2-N3	7.31	119.29	114.90
29	D1	2693	C	N3-C4-C5	7.31	124.82	121.90
1	A1	1377	U	N3-C4-O4	7.31	124.51	119.40
29	B1	1803	C	N3-C4-C5	7.30	124.82	121.90
16	AO	95	PRO	N-CA-CB	7.30	112.06	103.30
29	B1	517	G	N3-C2-N2	-7.30	114.79	119.90
29	B1	1917	C	N1-C2-O2	-7.30	114.52	118.90
29	D1	1501	U	C5-C6-N1	-7.30	119.05	122.70
29	D1	2881	C	C6-N1-C2	7.30	123.22	120.30
29	B1	1076	C	C2-N1-C1'	7.30	126.83	118.80
29	D1	636	C	C6-N1-C2	7.30	123.22	120.30
1	A1	631	G	C8-N9-C4	-7.30	103.48	106.40
29	B1	89	A	N1-C6-N6	7.30	122.98	118.60
29	D1	2668	U	N3-C2-O2	-7.30	117.09	122.20
1	A1	337	G	N1-C6-O6	7.29	124.28	119.90
29	B1	2679	A	N1-C6-N6	7.29	122.97	118.60
45	BP	76	PRO	N-CA-CB	7.29	112.05	103.30
29	D1	1861	G	C2-N3-C4	-7.29	108.25	111.90
29	B1	3243	A	N3-C4-C5	-7.29	121.70	126.80
29	D1	2939	G	N1-C6-O6	-7.29	115.53	119.90
29	D1	257	U	C5-C4-O4	-7.29	121.53	125.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2297	U	N3-C2-O2	7.29	127.30	122.20
29	D1	3220	G	C8-N9-C4	-7.28	103.49	106.40
29	B1	638	C	N3-C4-C5	7.28	124.81	121.90
29	B1	278	U	N1-C2-O2	-7.28	117.70	122.80
29	B1	1436	U	C5-C4-O4	7.28	130.27	125.90
31	B3	47	C	C6-N1-C2	7.28	123.21	120.30
29	B1	589	A	C4-N9-C1'	7.28	139.40	126.30
1	A1	610	G	C4-C5-C6	7.27	123.16	118.80
29	B1	677	A	N7-C8-N9	7.27	117.44	113.80
29	B1	3300	U	C5-C4-O4	7.27	130.26	125.90
1	C1	91	G	N3-C4-C5	7.27	132.24	128.60
29	D1	586	C	N3-C2-O2	7.27	126.99	121.90
1	C1	610	G	N3-C4-N9	7.27	130.36	126.00
29	B1	3001	C	C2-N3-C4	-7.27	116.27	119.90
29	B1	963	G	C4-C5-N7	7.27	113.71	110.80
29	B1	3175	U	N3-C2-O2	-7.26	117.11	122.20
29	B1	3396	U	C2-N1-C1'	7.26	126.42	117.70
29	D1	192	C	N1-C2-O2	-7.26	114.54	118.90
29	D1	2838	A	C8-N9-C4	7.26	108.70	105.80
29	B1	1677	G	N1-C6-O6	-7.26	115.55	119.90
1	C1	45	U	N3-C2-O2	-7.26	117.12	122.20
1	C1	1335	U	N1-C2-O2	7.26	127.88	122.80
29	B1	171	G	N3-C4-N9	7.25	130.35	126.00
29	B1	674	G	N1-C6-O6	7.25	124.25	119.90
29	D1	847	A	C2-N3-C4	-7.25	106.97	110.60
29	D1	1661	G	N9-C4-C5	-7.25	102.50	105.40
29	B1	421	G	C5-N7-C8	-7.25	100.67	104.30
29	D1	3101	G	C5-C6-O6	-7.25	124.25	128.60
31	B3	42	G	N3-C4-C5	7.25	132.22	128.60
1	C1	1203	A	C8-N9-C4	-7.25	102.90	105.80
29	B1	387	A	C5-C6-N1	-7.25	114.08	117.70
29	B1	3265	C	N1-C2-O2	7.25	123.25	118.90
29	D1	875	G	C4-N9-C1'	7.25	135.92	126.50
29	D1	1085	A	N1-C6-N6	7.25	122.95	118.60
29	D1	1609	C	N3-C2-O2	7.25	126.97	121.90
29	B1	927	C	C6-N1-C2	7.24	123.20	120.30
11	CJ	41	PRO	N-CA-CB	7.24	111.99	103.30
29	D1	2296	A	C8-N9-C4	-7.24	102.90	105.80
29	D1	244	G	C4-C5-C6	7.24	123.14	118.80
29	B1	1450	G	N7-C8-N9	7.24	116.72	113.10
29	B1	1506	A	C5-C6-N6	-7.24	117.91	123.70
29	D1	685	G	C4-N9-C1'	7.24	135.91	126.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3304	U	N1-C2-N3	-7.24	110.56	114.90
29	B1	39	A	C4-C5-N7	7.23	114.32	110.70
29	D1	859	G	C5-C6-O6	-7.23	124.26	128.60
29	D1	1381	A	N1-C6-N6	-7.23	114.26	118.60
29	D1	593	C	N3-C2-O2	-7.23	116.84	121.90
29	D1	2362	C	C2-N1-C1'	-7.23	110.85	118.80
29	B1	719	U	C5-C4-O4	-7.23	121.56	125.90
29	D1	612	U	C5-C4-O4	-7.22	121.57	125.90
1	C1	1788	G	C4-C5-N7	-7.22	107.91	110.80
29	D1	2123	G	N1-C6-O6	-7.22	115.57	119.90
29	B1	2302	G	C6-C5-N7	7.22	134.73	130.40
29	D1	677	A	C8-N9-C4	-7.22	102.91	105.80
29	D1	2673	A	C5-C6-N6	-7.22	117.92	123.70
29	B1	3036	G	C8-N9-C4	7.22	109.29	106.40
1	C1	686	C	N3-C4-C5	7.22	124.79	121.90
29	D1	589	A	N3-C4-C5	-7.22	121.75	126.80
1	A1	427	C	N3-C2-O2	7.22	126.95	121.90
29	D1	556	U	N1-C2-O2	7.22	127.85	122.80
29	B1	1501	U	C5-C6-N1	-7.21	119.09	122.70
29	D1	1060	U	C6-N1-C1'	-7.21	111.10	121.20
29	D1	2195	C	C6-N1-C2	7.21	123.19	120.30
29	D1	2988	C	C2-N1-C1'	7.21	126.73	118.80
29	B1	2689	A	N1-C2-N3	7.21	132.91	129.30
29	D1	851	C	C6-N1-C2	7.21	123.18	120.30
29	D1	1379	G	N1-C6-O6	7.21	124.23	119.90
29	B1	422	A	C4-C5-C6	-7.21	113.39	117.00
29	B1	1187	C	N3-C2-O2	7.21	126.95	121.90
54	BY	2	PRO	N-CA-CB	7.21	111.95	103.30
29	D1	2139	A	N1-C6-N6	-7.21	114.28	118.60
29	D1	3099	C	C6-N1-C1'	-7.21	112.15	120.80
29	D1	953	G	C4-C5-N7	7.20	113.68	110.80
29	D1	2248	C	C6-N1-C2	7.20	123.18	120.30
29	D1	1434	G	C6-C5-N7	-7.20	126.08	130.40
1	A1	1301	U	C6-N1-C2	7.20	125.32	121.00
1	A1	1789	G	C8-N9-C4	7.20	109.28	106.40
29	B1	577	C	N3-C4-C5	-7.20	119.02	121.90
29	B1	1928	G	N3-C4-C5	7.20	132.20	128.60
29	D1	963	G	N1-C6-O6	7.20	124.22	119.90
1	A1	1498	G	N3-C4-C5	-7.19	125.00	128.60
29	B1	3095	U	N1-C2-O2	-7.19	117.77	122.80
29	B1	1434	G	C5-C6-O6	-7.19	124.29	128.60
29	D1	949	C	C2-N3-C4	-7.19	116.31	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	877	C	C2-N1-C1'	7.19	126.71	118.80
29	B1	1184	A	C5-C6-N6	7.19	129.45	123.70
30	D2	30	G	N3-C4-C5	7.19	132.19	128.60
29	B1	3213	A	N1-C6-N6	7.19	122.91	118.60
1	A1	373	G	N3-C4-C5	7.18	132.19	128.60
34	BC	9	PRO	N-CA-CB	7.18	111.92	103.30
29	D1	3193	C	N1-C2-O2	-7.18	114.59	118.90
29	B1	3322	A	C5-C6-N6	7.18	129.44	123.70
44	DO	76	PRO	N-CA-CB	7.18	111.91	103.30
29	D1	3177	G	N3-C2-N2	-7.17	114.88	119.90
29	D1	3250	U	C5-C6-N1	-7.17	119.11	122.70
29	B1	21	G	C4-C5-N7	7.17	113.67	110.80
29	B1	429	U	N1-C2-N3	7.17	119.20	114.90
29	B1	1154	A	C2-N3-C4	7.17	114.19	110.60
37	BF	11	PRO	N-CA-CB	7.17	111.91	103.30
29	D1	1002	A	C5-C6-N1	7.17	121.29	117.70
29	D1	1165	A	N1-C6-N6	7.17	122.90	118.60
29	B1	1194	G	C8-N9-C4	-7.17	103.53	106.40
1	A1	310	C	C5-C4-N4	-7.17	115.18	120.20
29	D1	3202	G	C8-N9-C4	7.17	109.27	106.40
1	A1	62	A	N9-C4-C5	7.17	108.67	105.80
29	B1	634	C	C2-N3-C4	-7.17	116.32	119.90
29	B1	881	C	C6-N1-C2	7.17	123.17	120.30
29	D1	1322	U	N3-C4-O4	7.17	124.42	119.40
29	B1	866	A	N7-C8-N9	7.17	117.38	113.80
29	B1	3297	U	C5-C4-O4	-7.16	121.60	125.90
29	D1	590	G	N3-C4-C5	7.16	132.18	128.60
45	DP	107	GLY	N-CA-C	-7.16	95.19	113.10
29	B1	712	G	C8-N9-C1'	-7.16	117.69	127.00
1	C1	1541	G	N3-C4-C5	-7.16	125.02	128.60
29	D1	2988	C	C6-N1-C1'	-7.16	112.21	120.80
1	A1	1567	U	C2-N1-C1'	7.16	126.29	117.70
29	B1	2325	G	C5-N7-C8	-7.16	100.72	104.30
29	B1	3114	A	C8-N9-C4	7.16	108.66	105.80
29	B1	3193	C	N3-C2-O2	7.16	126.91	121.90
29	D1	1589	A	C5-N7-C8	-7.16	100.32	103.90
29	D1	3181	C	C6-N1-C2	7.16	123.16	120.30
29	B1	1367	G	C4-C5-C6	7.16	123.09	118.80
1	C1	1073	G	C4-N9-C1'	7.16	135.80	126.50
29	D1	1047	A	C8-N9-C4	-7.16	102.94	105.80
29	D1	3198	U	C6-N1-C1'	-7.16	111.18	121.20
29	D1	3025	C	C2-N1-C1'	-7.15	110.93	118.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	513	G	C4-N9-C1'	-7.15	117.20	126.50
1	A1	1220	C	C6-N1-C1'	-7.15	112.22	120.80
29	B1	2939	G	C4-C5-N7	-7.15	107.94	110.80
29	B1	3074	G	C8-N9-C4	7.15	109.26	106.40
29	B1	1648	A	C5-C6-N1	7.15	121.27	117.70
29	D1	1303	A	C2-N3-C4	-7.15	107.03	110.60
29	D1	1859	A	N1-C6-N6	7.15	122.89	118.60
29	B1	286	U	N1-C2-O2	7.14	127.80	122.80
29	D1	88	A	C2-N3-C4	-7.14	107.03	110.60
29	D1	999	G	C5-C6-N1	7.14	115.07	111.50
1	A1	825	U	N1-C2-O2	-7.14	117.80	122.80
1	C1	1644	C	C2-N3-C4	-7.14	116.33	119.90
47	DR	61	PRO	N-CA-CB	7.14	111.87	103.30
29	B1	1426	C	N1-C2-O2	-7.14	114.62	118.90
29	B1	1333	C	C5-C6-N1	-7.13	117.43	121.00
1	C1	1602	C	C2-N1-C1'	7.13	126.65	118.80
29	D1	568	G	C4-C5-N7	7.13	113.65	110.80
29	B1	300	G	N1-C6-O6	7.13	124.18	119.90
29	D1	3184	A	C6-C5-N7	-7.13	127.31	132.30
29	B1	2917	G	C8-N9-C4	7.13	109.25	106.40
29	B1	2939	G	N1-C6-O6	-7.13	115.62	119.90
29	B1	497	C	N3-C4-C5	7.13	124.75	121.90
47	BR	61	PRO	N-CA-CB	7.13	111.85	103.30
29	D1	1045	C	N1-C2-O2	-7.13	114.62	118.90
29	B1	1898	G	N9-C4-C5	7.13	108.25	105.40
30	D2	113	C	N1-C2-N3	7.12	124.19	119.20
29	B1	1060	U	C5-C4-O4	-7.12	121.62	125.90
29	B1	2700	G	C5-C6-O6	-7.12	124.33	128.60
1	C1	1408	G	C4-N9-C1'	7.12	135.76	126.50
29	D1	3089	C	C5-C6-N1	7.12	124.56	121.00
29	D1	3376	A	C6-C5-N7	7.12	137.28	132.30
29	D1	726	G	C8-N9-C1'	-7.12	117.75	127.00
29	D1	2823	G	C8-N9-C1'	7.11	136.25	127.00
31	D3	87	G	N3-C4-N9	7.11	130.27	126.00
1	A1	332	U	N3-C2-O2	-7.11	117.22	122.20
29	B1	634	C	C5-C6-N1	-7.11	117.44	121.00
29	D1	3252	G	C5-C6-N1	7.11	115.06	111.50
29	B1	2673	A	C5-C6-N6	-7.11	118.01	123.70
29	B1	3177	G	N3-C2-N2	-7.11	114.92	119.90
29	B1	3176	G	N9-C4-C5	7.11	108.24	105.40
29	B1	3257	C	C6-N1-C2	7.11	123.14	120.30
29	D1	117	U	C5-C4-O4	-7.11	121.64	125.90

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	358	U	C2-N1-C1'	7.10	126.22	117.70
1	C1	1109	G	N1-C6-O6	7.10	124.16	119.90
1	C1	1331	A	N9-C4-C5	7.10	108.64	105.80
29	B1	853	G	C2-N3-C4	7.10	115.45	111.90
29	B1	3263	G	N9-C4-C5	7.10	108.24	105.40
29	B1	341	G	C5-C6-O6	-7.10	124.34	128.60
29	D1	2277	C	C6-N1-C2	7.10	123.14	120.30
1	A1	55	A	N1-C6-N6	-7.09	114.34	118.60
1	A1	306	U	C5-C6-N1	-7.09	119.15	122.70
29	B1	923	C	C6-N1-C2	7.09	123.14	120.30
29	B1	3090	U	C4-C5-C6	-7.09	115.44	119.70
29	D1	890	C	C6-N1-C2	7.09	123.14	120.30
29	B1	1379	G	N1-C6-O6	7.09	124.16	119.90
29	B1	1429	G	N3-C4-C5	-7.09	125.05	128.60
29	B1	2361	A	C5-C6-N1	7.09	121.25	117.70
29	D1	515	C	N3-C2-O2	7.09	126.86	121.90
1	A1	596	C	C6-N1-C2	7.09	123.14	120.30
29	B1	32	U	N3-C4-O4	-7.09	114.44	119.40
29	B1	1111	U	N3-C2-O2	7.09	127.16	122.20
29	B1	1751	G	C5-C6-O6	7.09	132.85	128.60
29	D1	257	U	C2-N1-C1'	7.09	126.20	117.70
29	D1	52	A	C6-C5-N7	-7.08	127.34	132.30
29	D1	656	A	C5-C6-N1	7.08	121.24	117.70
29	D1	1445	U	C5-C6-N1	-7.08	119.16	122.70
29	D1	52	A	C6-N1-C2	-7.08	114.35	118.60
29	D1	2964	G	C5-C6-O6	7.08	132.85	128.60
29	D1	3108	G	C8-N9-C4	-7.08	103.57	106.40
29	D1	2669	G	N3-C4-N9	7.08	130.25	126.00
29	B1	497	C	N3-C2-O2	-7.08	116.94	121.90
30	B2	112	G	C8-N9-C4	-7.08	103.57	106.40
29	D1	3386	G	N7-C8-N9	7.08	116.64	113.10
29	B1	644	G	C4-C5-C6	7.08	123.05	118.80
1	A1	1591	C	C6-N1-C1'	7.08	129.29	120.80
29	B1	890	C	N3-C4-C5	7.08	124.73	121.90
29	D1	941	G	N9-C4-C5	7.08	108.23	105.40
29	D1	978	G	N3-C4-N9	7.08	130.25	126.00
29	D1	402	A	C6-C5-N7	-7.07	127.35	132.30
29	D1	1499	C	N1-C2-O2	-7.07	114.66	118.90
29	D1	341	G	C4-C5-N7	7.07	113.63	110.80
29	D1	2925	C	C6-N1-C2	-7.07	117.47	120.30
29	D1	2681	U	N3-C4-O4	7.07	124.35	119.40
36	DE	174	PRO	N-CA-CB	7.07	111.78	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	750	G	C4-C5-N7	-7.07	107.97	110.80
29	D1	2845	A	C4-C5-C6	7.07	120.53	117.00
29	B1	3192	U	C6-N1-C1'	7.07	131.09	121.20
1	C1	981	U	C2-N1-C1'	7.07	126.18	117.70
29	D1	624	G	N9-C4-C5	-7.07	102.57	105.40
29	B1	659	G	C4-N9-C1'	7.06	135.68	126.50
29	B1	2267	C	N1-C2-O2	-7.06	114.66	118.90
29	B1	597	G	C5-C6-O6	-7.06	124.36	128.60
29	D1	3220	G	N3-C4-C5	-7.06	125.07	128.60
29	B1	3043	C	C6-N1-C2	7.06	123.12	120.30
29	D1	2892	A	C5-C6-N1	-7.06	114.17	117.70
29	B1	2881	C	N1-C2-O2	-7.06	114.67	118.90
1	C1	1462	G	C8-N9-C4	7.06	109.22	106.40
29	D1	352	A	N1-C6-N6	-7.06	114.37	118.60
29	B1	190	U	C2-N1-C1'	-7.05	109.24	117.70
29	B1	1168	U	C2-N1-C1'	-7.05	109.24	117.70
29	D1	3227	A	N3-C4-N9	-7.05	121.76	127.40
29	B1	994	G	N3-C4-N9	7.05	130.23	126.00
29	D1	1592	G	C5-C6-N1	-7.05	107.97	111.50
29	B1	2247	G	N1-C6-O6	7.05	124.13	119.90
29	D1	1187	C	N3-C2-O2	7.05	126.83	121.90
30	D2	111	U	C6-N1-C1'	-7.05	111.33	121.20
29	D1	1042	U	N3-C2-O2	7.04	127.13	122.20
29	D1	2342	U	C5-C6-N1	-7.04	119.18	122.70
29	B1	3273	A	C2-N3-C4	7.04	114.12	110.60
29	B1	3386	G	C5-C6-N1	-7.04	107.98	111.50
1	C1	374	U	C6-N1-C1'	-7.04	111.34	121.20
1	A1	1335	U	N1-C2-O2	7.04	127.73	122.80
29	B1	1894	U	C5-C6-N1	-7.04	119.18	122.70
29	D1	2370	G	N1-C6-O6	-7.04	115.68	119.90
29	D1	3266	G	C5-N7-C8	7.04	107.82	104.30
29	B1	1097	G	C8-N9-C4	-7.03	103.59	106.40
29	D1	507	U	C6-N1-C2	-7.03	116.78	121.00
29	D1	562	C	N1-C2-O2	-7.03	114.68	118.90
29	D1	886	C	C2-N3-C4	-7.03	116.38	119.90
29	D1	999	G	N3-C4-C5	-7.03	125.08	128.60
45	DP	58	LEU	N-CA-C	-7.03	92.01	111.00
29	B1	1753	G	C8-N9-C4	7.03	109.21	106.40
29	B1	2342	U	C5-C6-N1	-7.03	119.18	122.70
29	D1	2391	G	N9-C4-C5	-7.03	102.59	105.40
29	B1	103	G	C5-C6-O6	-7.03	124.38	128.60
29	B1	335	G	C5-C6-O6	-7.03	124.38	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1052	U	N1-C2-O2	-7.03	117.88	122.80
29	D1	1298	C	N1-C2-O2	-7.03	114.68	118.90
29	D1	1364	C	N3-C2-O2	7.03	126.82	121.90
29	D1	1368	U	C2-N1-C1'	7.03	126.14	117.70
29	B1	750	G	C5-C6-O6	7.03	132.82	128.60
29	B1	1321	G	C8-N9-C4	7.03	109.21	106.40
29	B1	89	A	C6-C5-N7	-7.02	127.39	132.30
29	B1	2669	G	C6-C5-N7	-7.02	126.19	130.40
29	B1	1052	U	N3-C2-O2	7.02	127.11	122.20
29	B1	1115	G	C4-C5-N7	7.02	113.61	110.80
29	B1	1184	A	N1-C6-N6	-7.02	114.39	118.60
29	D1	1371	G	C4-C5-N7	7.02	113.61	110.80
29	B1	3322	A	C5-C6-N1	-7.02	114.19	117.70
1	C1	248	U	C5-C4-O4	-7.01	121.69	125.90
29	D1	3297	U	C6-N1-C1'	-7.01	111.38	121.20
29	B1	3184	A	C6-C5-N7	-7.01	127.39	132.30
29	B1	729	C	C5-C4-N4	-7.01	115.29	120.20
29	D1	422	A	C4-N9-C1'	-7.01	113.68	126.30
29	D1	3143	C	N3-C4-N4	7.01	122.91	118.00
1	A1	338	C	C2-N1-C1'	7.01	126.51	118.80
29	B1	3143	C	N1-C2-O2	-7.01	114.69	118.90
1	C1	1149	G	N3-C4-C5	-7.01	125.09	128.60
29	B1	723	U	C6-N1-C1'	-7.01	111.39	121.20
29	B1	2924	U	N3-C2-O2	7.01	127.11	122.20
29	B1	3004	C	C6-N1-C2	-7.01	117.50	120.30
29	D1	594	U	C2-N1-C1'	7.01	126.11	117.70
29	D1	1861	G	N3-C4-C5	7.01	132.10	128.60
29	D1	655	C	C6-N1-C2	7.00	123.10	120.30
29	B1	3063	C	N3-C4-C5	7.00	124.70	121.90
29	D1	1329	U	N3-C2-O2	7.00	127.10	122.20
29	D1	2248	C	N3-C2-O2	7.00	126.80	121.90
29	B1	1501	U	C2-N1-C1'	-7.00	109.30	117.70
1	C1	597	G	C5-C6-O6	-7.00	124.40	128.60
29	D1	656	A	C6-N1-C2	-7.00	114.40	118.60
29	B1	668	G	N7-C8-N9	-7.00	109.60	113.10
29	D1	875	G	C6-C5-N7	-7.00	126.20	130.40
29	B1	1060	U	C6-N1-C1'	-7.00	111.41	121.20
29	B1	328	U	N1-C2-N3	7.00	119.10	114.90
30	B2	13	A	C5-C6-N6	7.00	129.30	123.70
29	D1	503	C	C6-N1-C2	-7.00	117.50	120.30
29	D1	2394	G	C5-C6-O6	6.99	132.80	128.60
29	B1	1097	G	C6-C5-N7	6.99	134.59	130.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2355	G	C8-N9-C1'	-6.99	117.91	127.00
29	D1	2362	C	C4-C5-C6	6.99	120.90	117.40
29	B1	1120	A	C6-N1-C2	-6.99	114.41	118.60
30	B2	10	C	C2-N1-C1'	6.99	126.49	118.80
37	BF	171	PRO	N-CA-CB	6.99	111.69	103.30
1	C1	1567	U	C5-C6-N1	6.99	126.19	122.70
29	B1	215	G	C4-C5-N7	6.98	113.59	110.80
29	B1	2385	G	C4-C5-N7	6.98	113.59	110.80
29	B1	2611	U	N1-C2-N3	6.98	119.09	114.90
29	D1	2127	U	N1-C2-O2	-6.98	117.91	122.80
29	B1	513	G	C8-N9-C1'	6.98	136.08	127.00
29	B1	514	G	C6-C5-N7	6.98	134.59	130.40
29	B1	2147	A	C8-N9-C4	6.98	108.59	105.80
29	B1	3307	A	C2-N3-C4	-6.98	107.11	110.60
29	B1	1292	C	N3-C2-O2	6.98	126.79	121.90
29	B1	793	C	N1-C2-O2	6.98	123.09	118.90
29	D1	1172	G	C8-N9-C4	6.98	109.19	106.40
29	D1	1592	G	N1-C6-O6	6.98	124.09	119.90
29	B1	45	A	N3-C4-C5	6.98	131.68	126.80
29	B1	2916	U	N3-C4-O4	6.98	124.28	119.40
29	B1	3001	C	N3-C4-C5	6.98	124.69	121.90
29	B1	1547	G	N3-C4-N9	6.97	130.19	126.00
29	D1	3322	A	C5-C6-N6	6.97	129.28	123.70
29	D1	3380	U	C2-N1-C1'	-6.97	109.33	117.70
29	B1	1341	U	C6-N1-C2	6.97	125.18	121.00
29	D1	1165	A	C6-N1-C2	6.97	122.78	118.60
61	Df	5	PRO	N-CA-CB	6.97	111.67	103.30
29	B1	3035	A	N3-C4-N9	6.97	132.97	127.40
29	D1	3201	C	C5-C6-N1	6.97	124.48	121.00
29	D1	2957	G	C2-N3-C4	-6.97	108.42	111.90
1	A1	610	G	C5-N7-C8	-6.97	100.82	104.30
29	B1	222	A	N1-C6-N6	6.97	122.78	118.60
1	A1	1567	U	C5-C6-N1	6.96	126.18	122.70
1	C1	517	U	N3-C4-O4	-6.96	114.53	119.40
1	C1	1331	A	C8-N9-C4	-6.96	103.01	105.80
29	D1	3322	A	N3-C4-N9	-6.96	121.83	127.40
29	B1	281	G	N1-C6-O6	6.96	124.08	119.90
5	CD	129	PRO	N-CA-CB	6.96	111.65	103.30
29	D1	1004	U	C5-C6-N1	6.96	126.18	122.70
29	D1	1706	C	C6-N1-C2	-6.96	117.52	120.30
29	D1	2705	A	N1-C2-N3	-6.96	125.82	129.30
29	D1	3392	U	N3-C2-O2	-6.96	117.33	122.20

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1141	G	C8-N9-C1'	-6.96	117.95	127.00
1	A1	939	A	C8-N9-C4	-6.96	103.02	105.80
29	D1	507	U	C2-N1-C1'	6.96	126.05	117.70
29	D1	3291	G	N3-C2-N2	6.96	124.77	119.90
1	A1	1141	G	C6-C5-N7	-6.96	126.23	130.40
29	B1	1827	C	N1-C2-O2	-6.96	114.73	118.90
29	D1	1285	G	N3-C4-N9	6.96	130.17	126.00
29	D1	3386	G	C4-C5-C6	6.96	122.97	118.80
29	B1	1431	G	C5-N7-C8	6.96	107.78	104.30
29	D1	2297	U	C6-N1-C2	6.95	125.17	121.00
29	D1	2681	U	N1-C2-N3	-6.95	110.73	114.90
1	C1	478	A	C8-N9-C4	6.95	108.58	105.80
29	B1	1061	A	C8-N9-C4	6.95	108.58	105.80
29	B1	3272	C	C2-N1-C1'	6.95	126.45	118.80
1	C1	517	U	C5-C6-N1	-6.95	119.22	122.70
29	D1	2187	G	C5-C6-O6	6.95	132.77	128.60
30	D2	46	A	C2-N3-C4	6.95	114.08	110.60
1	A1	95	G	C8-N9-C4	6.95	109.18	106.40
29	B1	2353	G	C5-C6-O6	-6.95	124.43	128.60
29	B1	2969	A	C2-N3-C4	-6.95	107.13	110.60
29	B1	2990	G	N3-C2-N2	-6.95	115.04	119.90
29	B1	1166	G	N9-C4-C5	-6.95	102.62	105.40
29	B1	2913	C	C6-N1-C1'	6.95	129.14	120.80
1	C1	1028	C	N1-C2-O2	6.95	123.07	118.90
29	B1	2248	C	N1-C2-O2	-6.95	114.73	118.90
29	D1	648	C	N3-C2-O2	-6.95	117.04	121.90
29	B1	1178	G	N1-C2-N3	-6.94	119.73	123.90
29	B1	3099	C	N1-C2-N3	-6.94	114.34	119.20
29	D1	575	G	N1-C2-N2	6.94	122.45	116.20
1	C1	584	C	C6-N1-C2	6.94	123.08	120.30
29	D1	387	A	C6-N1-C2	6.94	122.77	118.60
29	D1	613	G	C5-C6-O6	-6.94	124.44	128.60
29	B1	1547	G	N3-C2-N2	6.94	124.76	119.90
1	C1	565	C	C2-N1-C1'	-6.94	111.17	118.80
29	B1	2990	G	C5-N7-C8	-6.94	100.83	104.30
29	D1	1431	G	N1-C6-O6	-6.94	115.74	119.90
29	D1	3392	U	N3-C4-C5	6.94	118.76	114.60
29	D1	827	A	C2-N3-C4	6.94	114.07	110.60
34	DC	267	ALA	N-CA-C	-6.94	92.27	111.00
29	B1	661	G	C6-N1-C2	6.93	129.26	125.10
29	D1	615	U	C5-C4-O4	-6.93	121.74	125.90
1	A1	577	G	C4-N9-C1'	6.93	135.51	126.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2355	G	C6-C5-N7	-6.93	126.24	130.40
29	D1	2297	U	N1-C2-O2	-6.93	117.95	122.80
29	D1	2990	G	C4-C5-N7	6.93	113.57	110.80
29	D1	3297	U	C5-C4-O4	-6.93	121.74	125.90
29	B1	2957	G	N3-C4-C5	6.93	132.06	128.60
31	B3	52	A	N1-C6-N6	-6.93	114.44	118.60
29	D1	504	A	C4-C5-N7	6.93	114.16	110.70
29	D1	639	G	C2-N3-C4	-6.93	108.44	111.90
2	CA	70	PRO	N-CA-CB	6.92	111.61	103.30
29	D1	2247	G	N9-C4-C5	-6.92	102.63	105.40
29	D1	2607	G	C6-C5-N7	-6.92	126.25	130.40
29	B1	1751	G	C8-N9-C4	-6.92	103.63	106.40
29	D1	3297	U	C2-N3-C4	-6.92	122.85	127.00
37	DF	75	PRO	N-CA-CB	6.92	111.61	103.30
29	B1	1123	U	N3-C2-O2	6.92	127.04	122.20
29	B1	2147	A	C2-N3-C4	-6.92	107.14	110.60
1	C1	1459	C	C4-C5-C6	6.92	120.86	117.40
29	B1	873	C	N1-C2-O2	-6.92	114.75	118.90
29	B1	1405	U	C2-N1-C1'	-6.92	109.40	117.70
29	D1	651	G	N1-C6-O6	6.92	124.05	119.90
29	B1	512	U	N3-C4-O4	6.92	124.24	119.40
29	B1	589	A	N9-C4-C5	6.91	108.56	105.80
61	Bf	5	PRO	N-CA-CB	6.91	111.60	103.30
1	C1	1773	C	N3-C2-O2	6.91	126.74	121.90
29	D1	1710	C	C6-N1-C1'	-6.91	112.50	120.80
29	D1	3307	A	N1-C2-N3	6.91	132.76	129.30
29	B1	2602	G	N1-C6-O6	6.91	124.05	119.90
29	B1	3095	U	C5-C4-O4	-6.91	121.75	125.90
29	D1	788	C	N3-C4-C5	-6.91	119.14	121.90
29	D1	1010	G	C4-C5-N7	6.91	113.56	110.80
29	D1	1172	G	C4-C5-N7	-6.91	108.04	110.80
1	A1	1792	G	C5-C6-O6	-6.91	124.46	128.60
29	B1	1307	G	C8-N9-C1'	-6.91	118.02	127.00
18	CQ	91	PRO	N-CA-CB	6.91	111.59	103.30
45	DP	76	PRO	N-CA-CB	6.91	111.59	103.30
72	DL	75	PRO	N-CA-CB	6.90	111.58	103.30
29	D1	1340	G	C8-N9-C4	6.90	109.16	106.40
29	D1	3392	U	C5-C4-O4	-6.90	121.76	125.90
29	B1	1187	C	N1-C2-O2	-6.90	114.76	118.90
29	D1	1317	A	C2-N3-C4	-6.90	107.15	110.60
29	B1	1190	A	C5-C6-N1	6.90	121.15	117.70
29	D1	509	U	N1-C2-O2	6.90	127.63	122.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1198	C	N1-C2-O2	6.90	123.04	118.90
29	B1	1499	C	N1-C2-O2	-6.90	114.76	118.90
30	D2	47	C	C6-N1-C1'	-6.90	112.52	120.80
1	A1	1773	C	N3-C2-O2	6.89	126.73	121.90
29	B1	1860	G	C8-N9-C4	6.89	109.16	106.40
1	C1	1792	G	C5-C6-O6	-6.89	124.46	128.60
29	D1	675	C	C4-C5-C6	-6.89	113.95	117.40
29	B1	52	A	N1-C2-N3	6.89	132.75	129.30
29	D1	417	A	C2-N3-C4	-6.89	107.15	110.60
29	B1	2527	G	N3-C4-N9	-6.89	121.87	126.00
50	BU	50	PRO	N-CA-CB	6.89	111.57	103.30
1	C1	79	C	C6-N1-C2	-6.89	117.54	120.30
29	D1	509	U	C6-N1-C2	-6.89	116.87	121.00
29	D1	2607	G	N1-C6-O6	6.89	124.03	119.90
29	B1	780	A	C5-C6-N1	-6.89	114.26	117.70
45	BP	5	PRO	N-CA-CB	6.89	111.56	103.30
29	D1	597	G	C4-C5-N7	6.89	113.56	110.80
12	AK	65	PRO	N-CA-CB	6.89	111.56	103.30
29	B1	150	A	C6-N1-C2	-6.89	114.47	118.60
29	B1	1434	G	C4-C5-N7	6.89	113.55	110.80
29	D1	588	G	N1-C2-N3	6.89	128.03	123.90
29	B1	511	G	N3-C4-C5	6.88	132.04	128.60
29	B1	3019	U	N1-C2-O2	-6.88	117.98	122.80
29	B1	3065	G	N1-C6-O6	-6.88	115.77	119.90
29	B1	3201	C	C5-C6-N1	6.88	124.44	121.00
29	D1	1501	U	C2-N3-C4	-6.88	122.87	127.00
29	B1	120	G	C4-N9-C1'	-6.88	117.56	126.50
29	B1	1858	A	C8-N9-C4	-6.88	103.05	105.80
29	B1	360	G	C5-C6-O6	6.88	132.73	128.60
29	B1	1457	U	C5-C6-N1	-6.88	119.26	122.70
31	B3	53	A	C5-C6-N1	6.88	121.14	117.70
43	BN	73	PRO	N-CA-CB	6.88	111.55	103.30
29	D1	587	U	C6-N1-C2	6.88	125.12	121.00
1	A1	1486	G	C5-C6-O6	-6.87	124.48	128.60
29	B1	630	A	C6-C5-N7	-6.87	127.49	132.30
29	B1	1151	U	C6-N1-C2	-6.87	116.88	121.00
29	B1	3296	A	C2-N3-C4	6.87	114.04	110.60
1	C1	1121	C	C2-N1-C1'	-6.87	111.24	118.80
29	B1	1612	A	N1-C6-N6	-6.87	114.48	118.60
37	BF	49	GLY	N-CA-C	-6.87	95.92	113.10
12	CK	65	PRO	N-CA-CB	6.87	111.55	103.30
29	D1	1050	U	C5-C6-N1	-6.87	119.26	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3170	A	C5-C6-N1	-6.87	114.27	117.70
30	D2	112	G	C6-C5-N7	6.87	134.52	130.40
29	B1	1363	A	N7-C8-N9	-6.87	110.37	113.80
29	B1	2354	C	N3-C2-O2	-6.87	117.09	121.90
34	BC	307	PRO	N-CA-CB	6.87	111.54	103.30
1	C1	1547	A	C4-C5-C6	-6.87	113.57	117.00
31	D3	92	A	C5-C6-N6	6.87	129.19	123.70
29	B1	918	C	N1-C2-O2	-6.87	114.78	118.90
29	D1	2664	C	C6-N1-C1'	-6.87	112.56	120.80
30	D2	119	U	C2-N1-C1'	6.87	125.94	117.70
1	A1	1331	A	N9-C4-C5	6.86	108.55	105.80
29	B1	338	A	N1-C6-N6	-6.86	114.48	118.60
1	C1	1567	U	C2-N1-C1'	6.86	125.94	117.70
29	D1	164	A	C5-C6-N6	-6.86	118.21	123.70
29	D1	1060	U	C2-N1-C1'	6.86	125.94	117.70
29	D1	429	U	N3-C4-O4	6.86	124.20	119.40
29	D1	3132	C	N3-C2-O2	6.86	126.70	121.90
1	A1	343	C	C2-N3-C4	-6.86	116.47	119.90
29	B1	867	G	N1-C6-O6	6.86	124.02	119.90
29	B1	1056	U	C6-N1-C1'	-6.86	111.59	121.20
29	B1	1880	U	C5-C6-N1	-6.86	119.27	122.70
1	C1	318	U	C6-N1-C2	6.86	125.12	121.00
29	D1	1902	G	N9-C4-C5	-6.86	102.66	105.40
1	A1	1606	C	N1-C2-O2	-6.86	114.78	118.90
29	B1	1897	G	N1-C6-O6	6.86	124.02	119.90
29	B1	272	G	C2-N3-C4	-6.86	108.47	111.90
30	D2	112	G	C2-N3-C4	6.86	115.33	111.90
29	D1	904	A	C2-N3-C4	-6.85	107.17	110.60
29	D1	2834	G	C5-C6-N1	6.85	114.93	111.50
1	A1	1560	U	N3-C4-O4	-6.85	114.60	119.40
29	B1	86	G	C4-N9-C1'	-6.85	117.59	126.50
29	B1	1427	U	C5-C4-O4	6.85	130.01	125.90
34	DC	9	PRO	N-CA-CB	6.85	111.52	103.30
1	A1	1028	C	C2-N1-C1'	6.85	126.33	118.80
29	B1	185	C	N3-C4-C5	6.85	124.64	121.90
29	B1	1318	A	C2-N3-C4	6.85	114.03	110.60
31	B3	34	U	N1-C2-O2	6.85	127.59	122.80
1	C1	1520	U	N1-C2-O2	-6.85	118.01	122.80
29	D1	1186	G	N1-C2-N2	-6.85	110.04	116.20
29	B1	1525	G	N3-C4-N9	6.85	130.11	126.00
29	D1	999	G	C2-N3-C4	6.85	115.32	111.90
31	B3	117	C	N1-C2-O2	-6.84	114.79	118.90

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	16	G	N9-C4-C5	-6.84	102.66	105.40
29	D1	667	C	C6-N1-C2	6.84	123.04	120.30
29	D1	994	G	N3-C4-C5	-6.84	125.18	128.60
29	B1	3192	U	C2-N1-C1'	-6.84	109.49	117.70
31	B3	87	G	N3-C4-C5	-6.84	125.18	128.60
29	D1	3363	U	N3-C2-O2	-6.84	117.41	122.20
29	B1	335	G	C2-N3-C4	-6.84	108.48	111.90
29	D1	2689	A	N3-C4-C5	-6.84	122.01	126.80
29	B1	612	U	N1-C2-O2	-6.84	118.02	122.80
29	D1	1585	C	C6-N1-C2	6.84	123.03	120.30
29	B1	2681	U	N3-C4-O4	6.83	124.19	119.40
1	A1	1773	C	N1-C2-O2	-6.83	114.80	118.90
29	B1	1076	C	C6-N1-C1'	-6.83	112.61	120.80
29	D1	1126	G	N1-C2-N3	6.83	128.00	123.90
30	D2	112	G	C5-C6-O6	6.83	132.70	128.60
17	AP	64	PRO	N-CA-CB	6.83	111.49	103.30
1	C1	1141	G	C4-C5-N7	6.83	113.53	110.80
29	B1	2601	A	C6-N1-C2	6.83	122.69	118.60
1	C1	1140	G	N1-C6-O6	-6.83	115.81	119.90
29	D1	946	U	C5-C4-O4	-6.83	121.81	125.90
29	B1	410	U	N3-C4-O4	6.82	124.18	119.40
1	C1	3	U	C6-N1-C2	6.82	125.09	121.00
44	BO	76	PRO	N-CA-CB	6.82	111.48	103.30
29	D1	787	G	C6-C5-N7	-6.82	126.31	130.40
29	D1	1861	G	N3-C2-N2	-6.82	115.12	119.90
29	D1	3271	G	C2-N3-C4	6.82	115.31	111.90
29	B1	435	C	C5-C6-N1	-6.82	117.59	121.00
29	B1	498	A	C6-N1-C2	6.82	122.69	118.60
29	B1	1327	C	C2-N3-C4	-6.82	116.49	119.90
30	B2	58	C	C2-N1-C1'	6.82	126.30	118.80
15	CN	59	PRO	N-CA-CB	6.82	111.48	103.30
29	D1	352	A	C4-C5-N7	-6.82	107.29	110.70
29	D1	2712	U	C2-N1-C1'	6.82	125.88	117.70
31	B3	36	G	N3-C4-N9	6.82	130.09	126.00
29	B1	421	G	C8-N9-C4	-6.81	103.67	106.40
29	B1	511	G	C5-C6-N1	-6.81	108.09	111.50
29	D1	868	C	C5-C6-N1	-6.81	117.59	121.00
29	D1	1908	A	C2-N3-C4	6.81	114.01	110.60
29	D1	3035	A	C6-N1-C2	-6.81	114.51	118.60
29	B1	2277	C	N1-C2-O2	-6.81	114.81	118.90
29	B1	2283	G	N7-C8-N9	6.81	116.50	113.10
29	B1	1387	G	C8-N9-C4	-6.81	103.68	106.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2414	G	C5-C6-O6	6.81	132.68	128.60
29	D1	3138	U	C5-C6-N1	6.81	126.10	122.70
29	D1	3266	G	C4-C5-N7	-6.81	108.08	110.80
31	D3	68	G	C4-N9-C1'	-6.81	117.65	126.50
31	B3	47	C	C5-C6-N1	-6.81	117.60	121.00
29	B1	3059	G	C6-C5-N7	-6.80	126.32	130.40
29	D1	137	G	C6-C5-N7	-6.80	126.32	130.40
29	D1	505	G	C6-N1-C2	6.80	129.18	125.10
10	AI	68	PRO	N-CA-CB	6.80	111.46	103.30
29	B1	949	C	C2-N3-C4	-6.80	116.50	119.90
29	D1	605	U	C5-C4-O4	-6.80	121.82	125.90
17	AP	42	PRO	N-CA-CB	6.80	111.46	103.30
29	D1	1186	G	C5-N7-C8	-6.80	100.90	104.30
29	D1	3089	C	C6-N1-C2	-6.80	117.58	120.30
36	DE	139	PRO	N-CA-CB	6.80	111.46	103.30
29	D1	514	G	C4-C5-N7	-6.80	108.08	110.80
29	B1	1056	U	C5-C6-N1	6.80	126.10	122.70
36	BE	174	PRO	N-CA-CB	6.80	111.46	103.30
29	B1	589	A	C4-C5-C6	6.80	120.40	117.00
1	C1	1792	G	N9-C4-C5	-6.80	102.68	105.40
29	D1	1188	U	N3-C2-O2	-6.80	117.44	122.20
1	A1	1541	G	C8-N9-C1'	-6.79	118.17	127.00
29	B1	2187	G	C4-C5-N7	-6.79	108.08	110.80
29	B1	2312	A	C5-C6-N1	6.79	121.10	117.70
29	B1	793	C	C2-N1-C1'	6.79	126.27	118.80
29	B1	1661	G	C4-C5-N7	6.79	113.52	110.80
29	B1	3097	C	N1-C2-O2	-6.79	114.83	118.90
29	D1	500	C	C5-C4-N4	-6.79	115.45	120.20
29	D1	750	G	N9-C4-C5	6.79	108.12	105.40
29	D1	2832	C	C6-N1-C2	6.79	123.01	120.30
1	A1	4	C	N3-C4-C5	6.78	124.61	121.90
30	D2	85	G	N1-C6-O6	6.78	123.97	119.90
29	D1	2895	G	N9-C4-C5	6.78	108.11	105.40
1	A1	373	G	C5-C6-N1	-6.78	108.11	111.50
37	DF	171	PRO	N-CA-CB	6.78	111.44	103.30
29	D1	1255	C	C6-N1-C2	6.78	123.01	120.30
29	D1	3297	U	C6-N1-C2	-6.78	116.93	121.00
29	B1	877	C	N1-C2-O2	6.78	122.97	118.90
29	B1	2756	C	C2-N3-C4	-6.78	116.51	119.90
29	B1	3018	C	C2-N1-C1'	-6.78	111.34	118.80
29	D1	222	A	N9-C4-C5	-6.78	103.09	105.80
29	B1	42	C	N3-C4-C5	6.78	124.61	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3291	G	N3-C4-C5	-6.78	125.21	128.60
29	D1	3323	A	C6-N1-C2	6.78	122.67	118.60
1	A1	343	C	C5-C6-N1	-6.77	117.61	121.00
47	BR	157	PRO	N-CA-CB	6.77	111.43	103.30
29	D1	832	G	C5-C6-O6	-6.77	124.54	128.60
29	D1	1483	G	C5-C6-O6	6.77	132.66	128.60
1	A1	1463	C	C6-N1-C2	6.77	123.01	120.30
1	C1	1788	G	N3-C4-N9	-6.77	121.94	126.00
29	D1	637	C	C6-N1-C2	6.77	123.01	120.30
29	D1	3223	A	N1-C2-N3	-6.77	125.92	129.30
29	B1	1891	A	C6-C5-N7	-6.77	127.56	132.30
29	B1	2380	U	N1-C2-N3	6.77	118.96	114.90
1	A1	958	U	C2-N3-C4	-6.77	122.94	127.00
29	B1	557	A	C2-N3-C4	-6.76	107.22	110.60
29	B1	676	G	N3-C4-N9	6.76	130.06	126.00
29	D1	859	G	C8-N9-C1'	-6.76	118.21	127.00
29	B1	2811	A	N1-C6-N6	-6.76	114.54	118.60
1	C1	1595	U	N3-C4-C5	-6.76	110.54	114.60
1	A1	686	C	N3-C4-C5	6.76	124.60	121.90
1	A1	1198	G	N9-C4-C5	6.76	108.10	105.40
29	B1	3025	C	C2-N1-C1'	-6.76	111.36	118.80
30	B2	77	G	N3-C4-N9	6.76	130.06	126.00
29	B1	875	G	C8-N9-C1'	-6.76	118.21	127.00
29	D1	3328	G	C2-N3-C4	-6.76	108.52	111.90
29	D1	3323	A	C5-C6-N1	-6.76	114.32	117.70
1	A1	1159	C	C6-N1-C1'	-6.75	112.69	120.80
29	B1	220	G	C8-N9-C1'	-6.75	118.22	127.00
29	D1	810	A	C8-N9-C4	-6.75	103.10	105.80
29	D1	1147	G	C5-C6-N1	-6.75	108.12	111.50
1	A1	346	G	N9-C4-C5	-6.75	102.70	105.40
1	A1	993	A	N9-C4-C5	6.75	108.50	105.80
29	D1	3177	G	C8-N9-C1'	6.75	135.78	127.00
29	B1	606	C	C6-N1-C2	-6.75	117.60	120.30
29	B1	932	U	N3-C2-O2	6.75	126.92	122.20
1	C1	423	G	N1-C6-O6	-6.75	115.85	119.90
1	C1	1323	C	C6-N1-C2	6.75	123.00	120.30
29	D1	2278	C	C2-N1-C1'	6.75	126.22	118.80
1	A1	95	G	N3-C4-C5	6.75	131.97	128.60
29	B1	564	G	C5-C6-O6	-6.75	124.55	128.60
30	D2	49	G	N3-C4-C5	-6.75	125.23	128.60
29	B1	726	G	C8-N9-C1'	-6.74	118.23	127.00
29	D1	341	G	C5-C6-O6	-6.74	124.55	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1185	C	C6-N1-C2	6.74	123.00	120.30
29	D1	2135	U	C5-C6-N1	-6.74	119.33	122.70
29	D1	1382	G	C8-N9-C4	6.74	109.10	106.40
29	B1	726	G	N3-C4-N9	6.74	130.04	126.00
29	B1	1003	A	N7-C8-N9	6.74	117.17	113.80
29	B1	3291	G	N3-C4-N9	6.74	130.04	126.00
29	D1	1165	A	C2-N3-C4	-6.74	107.23	110.60
29	D1	3259	U	N3-C2-O2	6.74	126.92	122.20
29	B1	751	A	C6-N1-C2	-6.74	114.56	118.60
29	B1	896	A	C8-N9-C4	-6.74	103.11	105.80
29	B1	2339	C	N3-C2-O2	-6.74	117.18	121.90
29	B1	2824	G	C6-N1-C2	6.74	129.14	125.10
29	D1	1487	G	C5-C6-N1	6.74	114.87	111.50
29	B1	2906	C	C5-C6-N1	-6.74	117.63	121.00
31	B3	68	G	C4-N9-C1'	-6.74	117.74	126.50
29	B1	1175	C	N3-C4-N4	-6.73	113.29	118.00
29	D1	2863	G	N1-C6-O6	-6.73	115.86	119.90
29	B1	364	G	C5-C6-O6	-6.73	124.56	128.60
30	B2	15	C	N1-C2-O2	6.73	122.94	118.90
29	D1	151	A	C6-N1-C2	-6.73	114.56	118.60
29	D1	3375	A	C8-N9-C4	6.73	108.49	105.80
8	AG	137	PRO	N-CA-CB	6.73	111.38	103.30
29	D1	1431	G	C4-C5-N7	-6.73	108.11	110.80
30	D2	47	C	C5-C4-N4	-6.73	115.49	120.20
29	D1	746	A	N3-C4-C5	-6.73	122.09	126.80
29	B1	1297	C	C5-C4-N4	-6.73	115.49	120.20
29	D1	659	G	N3-C4-N9	6.73	130.04	126.00
15	AN	59	PRO	N-CA-CB	6.73	111.37	103.30
29	B1	890	C	C2-N3-C4	-6.72	116.54	119.90
29	B1	3181	C	N1-C2-N3	-6.72	114.49	119.20
29	D1	278	U	N1-C2-O2	-6.72	118.09	122.80
29	B1	832	G	C4-C5-N7	6.72	113.49	110.80
29	B1	2636	A	C6-N1-C2	-6.72	114.57	118.60
29	D1	573	C	N1-C2-O2	-6.72	114.87	118.90
29	D1	1188	U	C5-C4-O4	6.72	129.93	125.90
29	B1	1158	A	C8-N9-C4	6.72	108.49	105.80
30	B2	46	A	N3-C4-C5	-6.72	122.10	126.80
36	BE	19	PRO	N-CA-CB	6.72	111.36	103.30
1	C1	647	G	N3-C4-N9	6.72	130.03	126.00
1	C1	1421	A	C8-N9-C4	-6.72	103.11	105.80
29	D1	1067	U	N3-C4-O4	6.72	124.10	119.40
1	C1	1606	C	C6-N1-C2	6.72	122.99	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	387	A	C5-C6-N1	-6.72	114.34	117.70
29	D1	1048	A	C5-C6-N1	6.72	121.06	117.70
29	B1	2583	C	N1-C2-O2	-6.72	114.87	118.90
29	B1	2601	A	C8-N9-C4	6.72	108.49	105.80
29	D1	2333	C	C5-C6-N1	-6.72	117.64	121.00
29	B1	679	U	C5-C6-N1	-6.71	119.34	122.70
29	B1	1341	U	C5-C6-N1	-6.71	119.34	122.70
29	B1	504	A	C5-C6-N1	-6.71	114.34	117.70
29	D1	1207	G	C5-C6-O6	-6.71	124.57	128.60
1	C1	577	G	C4-N9-C1'	6.71	135.22	126.50
29	D1	370	U	N3-C2-O2	6.71	126.90	122.20
29	D1	630	A	C6-C5-N7	-6.71	127.60	132.30
29	B1	2380	U	C5-C6-N1	-6.71	119.34	122.70
1	A1	305	C	N1-C2-O2	-6.71	114.88	118.90
29	D1	1004	U	N3-C4-O4	6.71	124.10	119.40
29	B1	1431	G	N1-C6-O6	-6.71	115.88	119.90
51	BV	46	PRO	N-CA-CB	6.71	111.35	103.30
29	D1	505	G	C2-N3-C4	-6.71	108.55	111.90
29	D1	1661	G	C6-C5-N7	-6.71	126.38	130.40
29	B1	2180	G	C5-C6-N1	6.71	114.85	111.50
29	B1	137	G	C6-C5-N7	-6.70	126.38	130.40
29	B1	435	C	C6-N1-C2	6.70	122.98	120.30
29	B1	1424	C	C5-C6-N1	-6.70	117.65	121.00
1	C1	1591	C	C2-N1-C1'	-6.70	111.43	118.80
29	D1	1450	G	C2-N3-C4	-6.70	108.55	111.90
29	D1	1367	G	N1-C6-O6	6.70	123.92	119.90
1	A1	301	A	C8-N9-C4	6.70	108.48	105.80
1	C1	1331	A	C6-N1-C2	-6.70	114.58	118.60
29	B1	288	C	C5-C6-N1	-6.70	117.65	121.00
29	D1	3045	G	C6-C5-N7	-6.70	126.38	130.40
29	D1	1056	U	C5-C6-N1	6.70	126.05	122.70
1	A1	1335	U	N3-C2-O2	-6.70	117.51	122.20
29	B1	2312	A	C2-N3-C4	6.70	113.95	110.60
45	DP	5	PRO	N-CA-CB	6.70	111.33	103.30
29	B1	1769	G	N1-C6-O6	6.69	123.92	119.90
29	B1	1151	U	C4-C5-C6	6.69	123.72	119.70
1	C1	1792	G	C4-C5-N7	6.69	113.48	110.80
29	D1	712	G	C6-C5-N7	-6.69	126.38	130.40
29	D1	3368	U	N3-C2-O2	6.69	126.89	122.20
35	DD	240	PRO	N-CA-CB	6.69	111.33	103.30
1	A1	364	G	N1-C6-O6	-6.69	115.89	119.90
1	C1	306	U	C5-C6-N1	-6.69	119.36	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	816	A	C5-C6-N1	6.69	121.05	117.70
29	B1	1320	C	C6-N1-C1'	-6.69	112.78	120.80
31	B3	50	C	N1-C2-O2	-6.69	114.89	118.90
29	D1	1403	C	C6-N1-C2	6.69	122.97	120.30
29	D1	2916	U	N1-C2-N3	-6.68	110.89	114.90
29	D1	706	A	C5-C6-N1	-6.68	114.36	117.70
29	D1	1100	U	C5-C6-N1	-6.68	119.36	122.70
51	DV	46	PRO	N-CA-CB	6.68	111.32	103.30
29	B1	3044	G	C8-N9-C4	6.68	109.07	106.40
1	A1	628	G	C8-N9-C4	6.68	109.07	106.40
29	B1	92	G	C6-C5-N7	-6.68	126.39	130.40
29	B1	390	G	N9-C4-C5	6.68	108.07	105.40
29	B1	1427	U	N3-C4-O4	-6.68	114.72	119.40
29	B1	1368	U	C6-N1-C1'	-6.68	111.85	121.20
29	B1	3386	G	C4-N9-C1'	6.68	135.18	126.50
29	D1	1123	U	N3-C2-O2	6.68	126.87	122.20
29	B1	3139	A	N3-C4-N9	-6.67	122.06	127.40
29	B1	3265	C	C2-N1-C1'	6.67	126.14	118.80
1	C1	1139	A	N1-C6-N6	6.67	122.61	118.60
1	C1	1484	G	C8-N9-C4	-6.67	103.73	106.40
29	D1	190	U	C2-N1-C1'	-6.67	109.69	117.70
31	D3	68	G	C8-N9-C1'	6.67	135.68	127.00
29	B1	978	G	C4-C5-C6	6.67	122.80	118.80
29	B1	3272	C	C2-N3-C4	6.67	123.24	119.90
29	B1	3108	G	C4-N9-C1'	-6.67	117.83	126.50
29	B1	3192	U	N1-C2-N3	6.67	118.90	114.90
30	D2	15	C	C5-C4-N4	-6.67	115.53	120.20
1	A1	1073	G	C6-C5-N7	-6.67	126.40	130.40
1	C1	1374	C	N1-C2-O2	-6.67	114.90	118.90
38	DG	162	PRO	N-CA-CB	6.67	111.30	103.30
29	B1	284	A	C5-C6-N1	6.67	121.03	117.70
29	B1	2339	C	N1-C2-O2	6.67	122.90	118.90
29	D1	1151	U	N1-C2-N3	6.67	118.90	114.90
30	D2	9	C	N1-C2-N3	6.67	123.87	119.20
29	B1	52	A	C4-N9-C1'	6.67	138.30	126.30
29	D1	52	A	N3-C4-C5	-6.67	122.13	126.80
29	D1	1846	C	N3-C2-O2	-6.67	117.23	121.90
29	D1	2682	C	C5-C6-N1	-6.67	117.67	121.00
29	B1	3000	A	N3-C4-C5	6.67	131.47	126.80
1	A1	79	C	C2-N1-C1'	6.66	126.13	118.80
36	BE	139	PRO	N-CA-CB	6.66	111.30	103.30
1	C1	337	G	C5-N7-C8	-6.66	100.97	104.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	531	G	N3-C2-N2	-6.66	115.24	119.90
29	D1	2365	C	N3-C4-C5	6.66	124.56	121.90
29	D1	2421	U	C2-N1-C1'	-6.66	109.70	117.70
30	D2	29	C	C2-N1-C1'	-6.66	111.47	118.80
1	A1	1331	A	C8-N9-C4	-6.66	103.14	105.80
29	B1	424	G	N3-C4-N9	6.66	130.00	126.00
29	B1	853	G	C6-C5-N7	6.66	134.40	130.40
29	B1	1609	C	N3-C2-O2	6.66	126.56	121.90
31	D3	34	U	N1-C2-O2	6.66	127.46	122.80
29	B1	659	G	C8-N9-C1'	-6.66	118.34	127.00
29	D1	613	G	N1-C6-O6	6.66	123.89	119.90
29	B1	2669	G	C4-C5-N7	6.66	113.46	110.80
1	C1	332	U	N3-C2-O2	-6.66	117.54	122.20
1	A1	45	U	N3-C2-O2	-6.66	117.54	122.20
29	B1	742	G	C8-N9-C4	6.66	109.06	106.40
29	B1	3223	A	C4-C5-C6	-6.66	113.67	117.00
36	DE	47	PRO	N-CA-CB	6.66	111.29	103.30
29	B1	380	U	C6-N1-C1'	6.65	130.52	121.20
29	D1	586	C	N3-C4-C5	-6.65	119.24	121.90
29	B1	1331	U	C5-C6-N1	-6.65	119.38	122.70
29	D1	2368	A	C2-N3-C4	-6.65	107.27	110.60
1	A1	825	U	N3-C2-O2	-6.65	117.55	122.20
29	D1	3298	C	N1-C2-O2	6.65	122.89	118.90
29	B1	2830	G	C5-C6-N1	-6.65	108.18	111.50
1	A1	1645	G	N1-C6-O6	6.65	123.89	119.90
29	B1	2609	A	N1-C6-N6	-6.64	114.61	118.60
44	BO	154	PRO	N-CA-CB	6.64	111.27	103.30
29	D1	352	A	C5-N7-C8	6.64	107.22	103.90
29	D1	1063	G	N3-C4-N9	-6.64	122.01	126.00
29	D1	3297	U	N1-C2-O2	6.64	127.45	122.80
29	B1	716	A	N7-C8-N9	6.64	117.12	113.80
29	B1	1381	A	C8-N9-C4	6.64	108.46	105.80
29	B1	2304	C	C6-N1-C2	-6.64	117.64	120.30
29	B1	2355	G	N3-C4-N9	6.64	129.99	126.00
29	B1	3303	G	C8-N9-C4	-6.64	103.74	106.40
30	B2	113	C	C5-C6-N1	-6.64	117.68	121.00
31	B3	68	G	C8-N9-C1'	6.64	135.63	127.00
29	B1	3269	U	C2-N1-C1'	6.64	125.67	117.70
33	BB	103	PRO	N-CA-CB	6.64	111.27	103.30
29	D1	32	U	N3-C4-O4	-6.64	114.75	119.40
29	D1	2643	A	C5-C6-N1	-6.64	114.38	117.70
29	D1	3143	C	C4-C5-C6	-6.64	114.08	117.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3205	G	C2-N3-C4	6.64	115.22	111.90
29	D1	3261	C	C2-N3-C4	-6.64	116.58	119.90
29	D1	421	G	C5-C6-N1	-6.64	108.18	111.50
29	D1	963	G	N7-C8-N9	6.64	116.42	113.10
29	D1	2939	G	C5-C6-O6	6.64	132.58	128.60
1	A1	1437	U	N1-C2-O2	-6.64	118.15	122.80
29	B1	220	G	C2-N3-C4	-6.64	108.58	111.90
29	B1	2320	A	C8-N9-C4	6.64	108.45	105.80
29	D1	2377	G	C4-N9-C1'	-6.64	117.87	126.50
11	AJ	51	PRO	N-CA-CB	6.63	111.26	103.30
29	B1	814	U	N1-C2-O2	-6.63	118.16	122.80
1	C1	939	A	N7-C8-N9	6.63	117.12	113.80
29	D1	2661	G	N3-C4-C5	-6.63	125.28	128.60
29	D1	2913	C	C5-C6-N1	-6.63	117.68	121.00
1	A1	577	G	C6-C5-N7	-6.63	126.42	130.40
29	D1	2982	A	N1-C6-N6	-6.63	114.62	118.60
1	A1	565	C	C2-N1-C1'	-6.63	111.51	118.80
1	C1	79	C	N1-C2-O2	6.63	122.88	118.90
1	A1	45	U	C2-N3-C4	-6.63	123.02	127.00
29	B1	1339	C	N1-C2-N3	6.63	123.84	119.20
29	B1	1342	C	C6-N1-C2	6.63	122.95	120.30
29	B1	2435	G	C5-C6-O6	-6.63	124.62	128.60
29	B1	3205	G	C4-N9-C1'	6.63	135.12	126.50
29	D1	422	A	C8-N9-C4	6.63	108.45	105.80
29	D1	1888	U	C5-C6-N1	-6.63	119.39	122.70
29	D1	3244	A	C4-N9-C1'	-6.63	114.37	126.30
29	D1	3268	A	N7-C8-N9	-6.63	110.49	113.80
29	B1	9	U	N3-C2-O2	-6.63	117.56	122.20
33	BB	66	PRO	N-CA-CB	6.63	111.25	103.30
29	D1	1089	G	C6-N1-C2	-6.63	121.12	125.10
41	DJ	18	PRO	N-CA-CB	6.63	111.25	103.30
29	B1	727	G	N9-C4-C5	-6.62	102.75	105.40
29	B1	1307	G	N9-C4-C5	-6.62	102.75	105.40
29	D1	435	C	C2-N3-C4	-6.62	116.59	119.90
29	D1	793	C	C2-N1-C1'	6.62	126.09	118.80
29	D1	2669	G	N9-C4-C5	-6.62	102.75	105.40
29	D1	1885	U	C2-N3-C4	-6.62	123.03	127.00
29	D1	2881	C	N1-C2-O2	-6.62	114.93	118.90
1	A1	517	U	N3-C4-O4	-6.62	114.77	119.40
29	D1	1480	G	C5-C6-N1	6.62	114.81	111.50
1	C1	16	G	C8-N9-C1'	-6.62	118.40	127.00
1	C1	1046	G	N3-C4-C5	-6.62	125.29	128.60

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	94	G	C2-N3-C4	-6.61	108.59	111.90
29	B1	613	G	N1-C2-N2	-6.61	110.25	116.20
29	B1	2992	U	C5-C4-O4	-6.61	121.93	125.90
30	B2	46	A	C2-N3-C4	6.61	113.91	110.60
1	A1	647	G	N3-C4-C5	-6.61	125.30	128.60
29	B1	859	G	C8-N9-C1'	-6.61	118.41	127.00
29	D1	2706	G	C5-C6-N1	6.61	114.81	111.50
29	D1	89	A	C2-N3-C4	-6.61	107.30	110.60
1	A1	1418	G	C8-N9-C4	-6.61	103.76	106.40
29	B1	2990	G	C6-C5-N7	-6.61	126.44	130.40
29	B1	3226	A	C5-C6-N1	-6.61	114.40	117.70
1	C1	1418	G	N1-C6-O6	6.61	123.86	119.90
29	D1	1315	U	C4-C5-C6	-6.61	115.74	119.70
29	B1	2379	U	N1-C2-O2	-6.61	118.18	122.80
29	D1	1300	G	N9-C4-C5	6.61	108.04	105.40
29	B1	92	G	C4-C5-N7	6.60	113.44	110.80
29	B1	150	A	N1-C6-N6	-6.60	114.64	118.60
29	D1	963	G	C5-N7-C8	-6.60	101.00	104.30
29	B1	549	U	N1-C2-O2	6.60	127.42	122.80
29	D1	1861	G	N3-C4-N9	-6.60	122.04	126.00
30	D2	29	C	N3-C4-C5	6.60	124.54	121.90
30	D2	103	A	C5-N7-C8	-6.60	100.60	103.90
29	B1	54	C	C6-N1-C2	6.60	122.94	120.30
1	C1	1149	G	N3-C4-N9	6.60	129.96	126.00
29	D1	341	G	C6-C5-N7	-6.60	126.44	130.40
29	B1	21	G	C5-N7-C8	-6.60	101.00	104.30
29	B1	52	A	N3-C4-N9	6.60	132.68	127.40
29	D1	634	C	C5-C6-N1	-6.60	117.70	121.00
29	D1	1056	U	C6-N1-C1'	-6.60	111.96	121.20
29	D1	3242	G	N1-C2-N3	-6.60	119.94	123.90
30	D2	96	U	C2-N3-C4	-6.60	123.04	127.00
1	A1	1073	G	C8-N9-C1'	-6.60	118.42	127.00
29	B1	789	A	N1-C6-N6	-6.60	114.64	118.60
29	B1	2330	C	C2-N3-C4	-6.60	116.60	119.90
1	A1	1149	G	N3-C4-N9	6.60	129.96	126.00
31	B3	92	A	N1-C2-N3	-6.60	126.00	129.30
29	D1	1528	G	C8-N9-C4	6.60	109.04	106.40
29	B1	1418	A	C2-N3-C4	6.59	113.90	110.60
29	B1	3324	C	N3-C2-O2	-6.59	117.28	121.90
29	B1	1305	U	C5-C6-N1	-6.59	119.40	122.70
29	B1	3291	G	C4-N9-C1'	6.59	135.07	126.50
1	C1	1220	C	C6-N1-C1'	-6.59	112.89	120.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1121	C	C2-N1-C1'	-6.59	111.55	118.80
29	B1	103	G	N3-C4-C5	6.59	131.89	128.60
29	B1	2601	A	C4-C5-C6	-6.59	113.71	117.00
1	C1	305	C	C6-N1-C2	6.59	122.94	120.30
29	D1	513	G	C4-C5-C6	-6.59	114.85	118.80
29	D1	1892	G	C2-N3-C4	-6.59	108.61	111.90
29	B1	584	G	C5-C6-O6	-6.58	124.65	128.60
29	B1	2378	C	N3-C4-C5	6.58	124.53	121.90
29	D1	676	G	N1-C2-N2	-6.58	110.27	116.20
29	B1	1166	G	C8-N9-C4	6.58	109.03	106.40
29	B1	120	G	N3-C4-N9	-6.58	122.05	126.00
29	B1	703	G	C4-N9-C1'	-6.58	117.94	126.50
29	D1	1183	C	C6-N1-C2	6.58	122.93	120.30
10	A1	73	PRO	N-CA-CB	6.58	111.20	103.30
29	B1	655	C	C6-N1-C2	6.58	122.93	120.30
29	D1	3184	A	C4-C5-C6	6.58	120.29	117.00
29	B1	779	G	C6-C5-N7	-6.58	126.45	130.40
29	B1	2746	A	N1-C6-N6	-6.58	114.65	118.60
29	B1	227	G	N9-C4-C5	-6.58	102.77	105.40
29	B1	1168	U	C6-N1-C2	6.58	124.94	121.00
30	D2	58	C	C6-N1-C1'	-6.58	112.91	120.80
29	B1	1147	G	C4-C5-N7	6.57	113.43	110.80
29	D1	1367	G	C6-N1-C2	6.57	129.04	125.10
29	B1	622	A	C8-N9-C4	-6.57	103.17	105.80
29	B1	3138	U	C5-C4-O4	-6.57	121.96	125.90
29	D1	1169	A	C5-C6-N1	6.57	120.99	117.70
29	B1	1450	G	C4-C5-N7	6.57	113.43	110.80
29	B1	1608	C	C2-N1-C1'	6.57	126.03	118.80
29	B1	2689	A	C4-N9-C1'	6.57	138.13	126.30
29	B1	335	G	C5-C6-N1	-6.57	108.22	111.50
29	B1	1342	C	N3-C4-C5	6.57	124.53	121.90
29	B1	1870	C	C6-N1-C2	6.57	122.93	120.30
1	C1	552	G	C6-N1-C2	-6.57	121.16	125.10
30	D2	35	C	C6-N1-C1'	-6.57	112.92	120.80
29	B1	625	G	C2-N3-C4	-6.57	108.62	111.90
29	B1	3266	G	C5-N7-C8	6.57	107.58	104.30
29	B1	3322	A	N3-C4-N9	-6.57	122.15	127.40
1	C1	1149	G	C2-N3-C4	6.57	115.18	111.90
29	B1	1160	C	C6-N1-C2	6.56	122.93	120.30
1	A1	1778	G	N1-C6-O6	6.56	123.84	119.90
29	D1	2302	G	C8-N9-C4	6.56	109.03	106.40
29	D1	2919	A	C4-C5-C6	6.56	120.28	117.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	410	U	N1-C2-O2	-6.56	118.21	122.80
31	B3	50	C	C2-N1-C1'	-6.56	111.58	118.80
1	C1	1028	C	N3-C2-O2	-6.56	117.31	121.90
29	D1	150	A	C5-C6-N1	6.56	120.98	117.70
29	B1	3233	C	C5-C4-N4	-6.56	115.61	120.20
29	B1	2667	A	N1-C2-N3	-6.56	126.02	129.30
29	B1	2278	C	N1-C2-N3	-6.55	114.61	119.20
29	B1	2329	C	N1-C2-O2	-6.55	114.97	118.90
29	D1	1085	A	C5-C6-N1	-6.55	114.42	117.70
29	B1	3130	A	N9-C4-C5	-6.55	103.18	105.80
47	DR	157	PRO	N-CA-CB	6.55	111.16	103.30
11	AJ	41	PRO	N-CA-CB	6.55	111.16	103.30
29	B1	752	C	C6-N1-C1'	-6.55	112.94	120.80
29	B1	984	G	N3-C4-N9	-6.55	122.07	126.00
30	B2	111	U	C6-N1-C1'	-6.55	112.03	121.20
54	BY	29	PRO	N-CA-CB	6.55	111.16	103.30
29	D1	1331	U	C2-N1-C1'	-6.55	109.84	117.70
1	A1	684	A	C5-C6-N1	6.55	120.97	117.70
57	Bb	68	PRO	N-CA-CB	6.55	111.16	103.30
29	D1	92	G	N1-C6-O6	6.55	123.83	119.90
29	D1	3035	A	C4-C5-C6	6.55	120.28	117.00
29	D1	3261	C	N3-C4-N4	-6.55	113.42	118.00
29	B1	529	A	C6-N1-C2	6.55	122.53	118.60
29	B1	29	C	N1-C2-O2	-6.55	114.97	118.90
29	B1	3152	U	C5-C4-O4	-6.55	121.97	125.90
11	CJ	51	PRO	N-CA-CB	6.55	111.16	103.30
29	D1	3002	C	C6-N1-C2	6.55	122.92	120.30
29	D1	3137	C	N3-C4-N4	-6.55	113.42	118.00
4	AC	163	PRO	N-CA-CB	6.54	111.15	103.30
29	B1	402	A	C4-C5-C6	6.54	120.27	117.00
29	B1	933	A	C5-C6-N6	-6.54	118.47	123.70
29	B1	1055	A	N1-C6-N6	6.54	122.53	118.60
1	C1	1561	U	C5-C6-N1	-6.54	119.43	122.70
29	D1	2618	G	N9-C4-C5	6.54	108.02	105.40
29	B1	3266	G	N3-C4-N9	6.54	129.93	126.00
29	D1	1364	C	N1-C2-O2	-6.54	114.97	118.90
29	B1	2946	A	C8-N9-C4	-6.54	103.18	105.80
1	C1	1134	C	C5-C6-N1	-6.54	117.73	121.00
1	A1	647	G	C5-C6-N1	6.54	114.77	111.50
1	A1	1453	G	C4-N9-C1'	-6.54	118.00	126.50
29	B1	1500	G	C5-C6-N1	6.54	114.77	111.50
18	AQ	91	PRO	N-CA-CB	6.53	111.14	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1457	U	C4-C5-C6	6.53	123.62	119.70
29	B1	1905	G	C8-N9-C4	-6.53	103.79	106.40
29	D1	2743	A	C8-N9-C4	6.53	108.41	105.80
29	D1	3097	C	N1-C2-O2	-6.53	114.98	118.90
29	B1	76	G	N9-C4-C5	6.53	108.01	105.40
29	B1	370	U	C6-N1-C1'	6.53	130.34	121.20
29	B1	2919	A	C4-C5-C6	6.53	120.27	117.00
1	A1	1206	U	C5-C6-N1	6.53	125.97	122.70
29	B1	1342	C	N3-C2-O2	6.53	126.47	121.90
29	B1	1472	U	C5-C6-N1	-6.53	119.44	122.70
29	D1	1192	C	N3-C2-O2	-6.53	117.33	121.90
29	D1	1292	C	N3-C4-C5	6.53	124.51	121.90
29	D1	3012	A	C5-C6-N1	6.53	120.97	117.70
29	B1	2892	A	C4-C5-N7	6.53	113.97	110.70
29	D1	1507	G	N1-C2-N2	6.53	122.08	116.20
29	B1	515	C	N3-C4-C5	-6.53	119.29	121.90
1	C1	12	U	C5-C6-N1	-6.53	119.44	122.70
29	D1	214	G	C8-N9-C4	6.53	109.01	106.40
29	D1	3192	U	C2-N1-C1'	-6.53	109.87	117.70
30	D2	47	C	C6-N1-C2	-6.53	117.69	120.30
29	B1	969	C	C5-C6-N1	-6.53	117.74	121.00
29	B1	1877	U	C6-N1-C1'	-6.53	112.06	121.20
29	B1	3012	A	C8-N9-C4	-6.53	103.19	105.80
47	BR	97	PRO	N-CA-CB	6.53	111.13	103.30
1	C1	406	U	C6-N1-C2	6.53	124.92	121.00
2	AA	70	PRO	N-CA-CB	6.52	111.13	103.30
29	B1	2325	G	N7-C8-N9	6.52	116.36	113.10
29	D1	1751	G	C8-N9-C4	-6.52	103.79	106.40
29	D1	1915	A	C8-N9-C4	6.52	108.41	105.80
29	B1	3126	C	N3-C4-C5	6.52	124.51	121.90
29	D1	1156	C	N3-C4-N4	6.52	122.57	118.00
1	A1	353	A	N1-C6-N6	-6.52	114.69	118.60
29	D1	1010	G	N1-C6-O6	6.52	123.81	119.90
29	B1	588	G	C5-N7-C8	6.52	107.56	104.30
38	BG	99	PRO	N-CA-CB	6.52	111.12	103.30
4	CC	81	PRO	N-CA-CB	6.52	111.12	103.30
29	B1	1921	A	N1-C6-N6	6.51	122.51	118.60
1	A1	1294	G	C8-N9-C4	-6.51	103.80	106.40
1	C1	890	C	C2-N1-C1'	-6.51	111.64	118.80
1	C1	1437	U	C5-C6-N1	-6.51	119.44	122.70
29	B1	790	U	C2-N3-C4	-6.51	123.09	127.00
29	B1	2605	G	N3-C4-C5	6.51	131.85	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3307	A	N1-C2-N3	6.51	132.56	129.30
29	B1	3314	A	N3-C4-C5	-6.51	122.24	126.80
29	D1	868	C	C2-N3-C4	-6.51	116.64	119.90
29	D1	2752	U	N1-C2-O2	6.51	127.36	122.80
29	D1	3126	C	N1-C2-O2	-6.51	114.99	118.90
29	D1	3391	A	N1-C6-N6	6.51	122.51	118.60
29	B1	3184	A	C2-N3-C4	-6.51	107.34	110.60
29	D1	2355	G	C8-N9-C1'	-6.51	118.54	127.00
29	D1	3129	A	N1-C6-N6	-6.51	114.69	118.60
3	AB	37	PRO	N-CA-CB	6.51	111.11	103.30
29	B1	2513	U	N3-C4-O4	6.51	123.95	119.40
29	B1	3227	A	N3-C4-N9	-6.51	122.19	127.40
29	D1	380	U	C5-C4-O4	6.51	129.80	125.90
29	B1	1710	C	C6-N1-C1'	-6.50	112.99	120.80
29	D1	3139	A	N3-C4-N9	-6.50	122.20	127.40
29	B1	755	A	C5-C6-N1	6.50	120.95	117.70
29	D1	859	G	N3-C4-N9	6.50	129.90	126.00
29	D1	3386	G	N1-C6-O6	6.50	123.80	119.90
29	B1	1115	G	N1-C6-O6	6.50	123.80	119.90
38	BG	217	PRO	N-CA-CB	6.50	111.10	103.30
29	D1	2756	C	C2-N3-C4	-6.50	116.65	119.90
29	D1	2886	U	C2-N3-C4	-6.50	123.10	127.00
29	D1	3129	A	C8-N9-C4	-6.50	103.20	105.80
1	A1	62	A	C6-C5-N7	6.50	136.85	132.30
29	D1	89	A	C4-C5-N7	6.50	113.95	110.70
29	D1	2369	G	N3-C2-N2	-6.50	115.35	119.90
29	D1	2828	G	N1-C6-O6	6.50	123.80	119.90
31	D3	51	G	C4-N9-C1'	6.50	134.95	126.50
29	D1	1190	A	C5-C6-N6	-6.50	118.50	123.70
56	Da	30	PRO	N-CA-CB	6.50	111.09	103.30
29	B1	338	A	N3-C4-C5	-6.49	122.25	126.80
29	B1	257	U	C2-N1-C1'	6.49	125.49	117.70
29	B1	3393	U	C6-N1-C2	6.49	124.89	121.00
29	D1	2668	U	C2-N1-C1'	6.49	125.49	117.70
1	A1	1141	G	N3-C4-N9	6.49	129.90	126.00
29	B1	96	G	C2-N3-C4	-6.49	108.65	111.90
29	D1	594	U	C5-C4-O4	-6.49	122.00	125.90
29	D1	2330	C	N3-C2-O2	6.49	126.44	121.90
1	A1	373	G	N1-C6-O6	6.49	123.79	119.90
1	A1	1046	G	C6-C5-N7	-6.49	126.51	130.40
29	B1	2708	C	C6-N1-C2	6.49	122.89	120.30
29	D1	1363	A	C8-N9-C4	6.49	108.40	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	222	A	C5-C6-N6	-6.49	118.51	123.70
29	B1	1507	G	N1-C2-N2	6.49	122.04	116.20
29	D1	1307	G	C8-N9-C1'	-6.49	118.57	127.00
29	D1	1781	C	C2-N1-C1'	6.49	125.93	118.80
29	D1	2922	G	C6-C5-N7	-6.49	126.51	130.40
1	A1	1453	G	N3-C4-C5	6.48	131.84	128.60
29	D1	378	A	C2-N3-C4	6.48	113.84	110.60
31	B3	93	U	C5-C6-N1	-6.48	119.46	122.70
29	D1	2248	C	N1-C2-O2	-6.48	115.01	118.90
1	A1	1541	G	N3-C4-N9	6.48	129.89	126.00
29	B1	117	U	C5-C4-O4	-6.48	122.01	125.90
29	B1	592	A	C8-N9-C4	-6.48	103.21	105.80
29	B1	2289	U	N3-C4-C5	6.48	118.49	114.60
31	B3	100	U	C5-C4-O4	-6.48	122.01	125.90
3	CB	239	PRO	N-CA-CB	6.48	111.08	103.30
29	B1	3168	A	C5-C6-N6	-6.48	118.52	123.70
1	C1	621	A	N1-C6-N6	-6.48	114.71	118.60
29	D1	2283	G	N3-C4-N9	-6.48	122.11	126.00
1	A1	647	G	N3-C4-N9	6.48	129.89	126.00
1	A1	1591	C	C2-N3-C4	-6.48	116.66	119.90
29	D1	509	U	N3-C4-O4	-6.47	114.87	119.40
29	D1	2643	A	C2-N3-C4	-6.47	107.36	110.60
1	A1	1109	G	C6-C5-N7	-6.47	126.52	130.40
29	B1	1113	G	C8-N9-C1'	-6.47	118.59	127.00
29	D1	272	G	C2-N3-C4	-6.47	108.66	111.90
29	D1	1050	U	C2-N3-C4	-6.47	123.12	127.00
29	B1	2277	C	C6-N1-C2	6.47	122.89	120.30
1	A1	1651	A	C5-C6-N6	-6.47	118.53	123.70
29	B1	1506	A	N1-C6-N6	6.47	122.48	118.60
29	D1	1297	C	N3-C4-N4	6.47	122.53	118.00
29	D1	2838	A	N7-C8-N9	-6.47	110.56	113.80
29	D1	2935	U	N1-C2-N3	6.47	118.78	114.90
1	A1	346	G	C4-C5-N7	6.47	113.39	110.80
29	B1	404	G	C8-N9-C1'	-6.47	118.59	127.00
29	D1	2283	G	N3-C2-N2	-6.47	115.37	119.90
29	B1	2644	C	N3-C2-O2	-6.47	117.37	121.90
29	B1	3065	G	C5-C6-N1	6.47	114.73	111.50
29	D1	137	G	C4-C5-N7	6.47	113.39	110.80
31	B3	87	G	C4-N9-C1'	6.46	134.90	126.50
29	D1	1296	C	N3-C4-C5	6.46	124.49	121.90
29	D1	2909	U	N1-C2-O2	-6.46	118.28	122.80
29	B1	2700	G	C8-N9-C1'	-6.46	118.60	127.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	497	C	N3-C2-O2	-6.46	117.38	121.90
29	D1	670	C	N1-C2-O2	-6.46	115.02	118.90
29	D1	948	C	C6-N1-C2	6.46	122.89	120.30
29	D1	1190	A	C8-N9-C4	-6.46	103.22	105.80
29	D1	3137	C	N3-C2-O2	-6.46	117.38	121.90
29	B1	3328	G	C2-N3-C4	-6.46	108.67	111.90
29	B1	3396	U	N1-C2-O2	6.46	127.32	122.80
29	D1	676	G	C6-C5-N7	-6.46	126.53	130.40
29	D1	1171	G	N9-C4-C5	6.46	107.98	105.40
30	D2	109	G	C8-N9-C4	6.46	108.98	106.40
1	A1	1348	A	N1-C6-N6	6.46	122.47	118.60
29	B1	374	A	C8-N9-C4	6.46	108.38	105.80
33	BB	178	PRO	N-CA-CB	6.46	111.05	103.30
29	D1	3390	G	C6-C5-N7	-6.46	126.53	130.40
36	BE	47	PRO	N-CA-CB	6.45	111.04	103.30
29	D1	2262	A	C4-C5-C6	6.45	120.23	117.00
1	A1	625	C	N1-C2-O2	6.45	122.77	118.90
29	B1	2347	U	C5-C6-N1	-6.45	119.47	122.70
29	B1	3205	G	C8-N9-C1'	-6.45	118.61	127.00
1	C1	337	G	C6-C5-N7	-6.45	126.53	130.40
29	D1	1388	U	C5-C6-N1	-6.45	119.47	122.70
29	D1	1469	C	C6-N1-C2	-6.45	117.72	120.30
29	D1	2244	A	N1-C6-N6	-6.45	114.73	118.60
29	B1	1825	G	N3-C4-N9	-6.45	122.13	126.00
29	D1	593	C	C6-N1-C1'	-6.45	113.06	120.80
29	D1	1422	G	N1-C6-O6	6.45	123.77	119.90
29	B1	3244	A	C4-N9-C1'	-6.45	114.70	126.30
30	B2	85	G	N1-C6-O6	6.45	123.77	119.90
29	D1	2377	G	N9-C4-C5	6.45	107.98	105.40
29	D1	2683	U	C2-N1-C1'	6.45	125.44	117.70
29	B1	927	C	C2-N1-C1'	-6.44	111.71	118.80
29	D1	2700	G	N9-C4-C5	-6.44	102.82	105.40
51	DV	15	PRO	N-CA-CB	6.44	111.03	103.30
29	B1	304	G	C8-N9-C1'	-6.44	118.62	127.00
29	B1	607	A	C4-C5-C6	6.44	120.22	117.00
1	C1	1789	G	C8-N9-C4	6.44	108.98	106.40
29	B1	3228	C	N3-C4-N4	6.44	122.51	118.00
29	B1	3242	G	N1-C2-N3	-6.44	120.04	123.90
10	CI	68	PRO	N-CA-CB	6.44	111.03	103.30
29	D1	1298	C	N3-C2-O2	6.44	126.41	121.90
29	D1	2630	C	N3-C4-C5	6.44	124.48	121.90
29	D1	2683	U	C6-N1-C1'	-6.44	112.19	121.20

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2867	C	N3-C2-O2	6.44	126.41	121.90
29	B1	2187	G	C5-C6-O6	6.44	132.46	128.60
1	C1	1143	A	C5-C6-N1	6.44	120.92	117.70
4	AC	81	PRO	N-CA-CB	6.44	111.03	103.30
29	B1	2907	G	N3-C4-N9	-6.44	122.14	126.00
4	CC	43	PRO	N-CA-CB	6.44	111.03	103.30
29	D1	2683	U	C2-N3-C4	-6.44	123.14	127.00
30	D2	19	C	C2-N1-C1'	6.44	125.88	118.80
29	B1	2845	A	C2-N3-C4	-6.43	107.38	110.60
1	C1	572	C	N3-C2-O2	-6.43	117.40	121.90
1	C1	1620	C	C2-N1-C1'	6.43	125.88	118.80
29	D1	729	C	N3-C4-C5	6.43	124.47	121.90
29	D1	1374	G	C8-N9-C4	-6.43	103.83	106.40
29	D1	2290	C	N3-C2-O2	6.43	126.40	121.90
29	B1	364	G	C4-C5-N7	6.43	113.37	110.80
29	B1	3048	A	C5-N7-C8	-6.43	100.69	103.90
1	C1	62	A	C6-C5-N7	6.43	136.80	132.30
29	D1	1140	G	C2-N3-C4	-6.43	108.69	111.90
29	D1	3211	C	N3-C2-O2	6.43	126.40	121.90
29	B1	92	G	N3-C4-C5	-6.43	125.39	128.60
29	D1	2827	U	N1-C2-O2	6.43	127.30	122.80
29	D1	612	U	N3-C4-O4	6.43	123.90	119.40
29	D1	2347	U	C2-N1-C1'	-6.43	109.99	117.70
29	D1	2377	G	C8-N9-C1'	6.43	135.36	127.00
29	B1	157	A	C2-N3-C4	6.42	113.81	110.60
29	B1	1154	A	C5-C6-N1	6.42	120.91	117.70
29	D1	3200	G	C6-N1-C2	6.42	128.96	125.10
29	D1	2809	C	C5-C6-N1	-6.42	117.79	121.00
29	B1	927	C	N3-C2-O2	6.42	126.39	121.90
29	D1	837	A	C5-N7-C8	-6.42	100.69	103.90
29	D1	2683	U	N3-C4-C5	6.42	118.45	114.60
29	B1	2419	A	N1-C6-N6	-6.42	114.75	118.60
29	D1	518	G	C6-N1-C2	6.42	128.95	125.10
1	A1	1778	G	C5-C6-O6	-6.42	124.75	128.60
1	C1	1421	A	N3-C4-C5	-6.42	122.31	126.80
29	D1	2929	C	C6-N1-C2	-6.42	117.73	120.30
29	B1	1661	G	N9-C4-C5	-6.42	102.83	105.40
1	C1	577	G	C8-N9-C1'	-6.42	118.66	127.00
29	D1	380	U	C6-N1-C1'	6.42	130.18	121.20
29	D1	572	A	C5-C6-N6	-6.42	118.57	123.70
29	D1	779	G	C6-C5-N7	-6.42	126.55	130.40
29	D1	1389	G	C8-N9-C4	6.42	108.97	106.40

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2928	C	N3-C4-N4	6.42	122.49	118.00
29	D1	2933	A	N9-C4-C5	6.42	108.37	105.80
29	D1	3272	C	C2-N1-C1'	6.42	125.86	118.80
29	B1	3069	G	N1-C6-O6	6.42	123.75	119.90
29	B1	2689	A	N1-C6-N6	-6.41	114.75	118.60
31	B3	115	C	C6-N1-C2	6.41	122.87	120.30
1	C1	552	G	C5-C6-N1	6.41	114.71	111.50
1	C1	1408	G	C8-N9-C4	-6.41	103.83	106.40
10	CI	73	PRO	N-CA-CB	6.41	111.00	103.30
17	CP	42	PRO	N-CA-CB	6.41	111.00	103.30
29	D1	724	U	C5-C6-N1	-6.41	119.49	122.70
29	D1	2708	C	C5-C4-N4	-6.41	115.71	120.20
29	D1	3087	A	C8-N9-C4	6.41	108.37	105.80
37	DF	68	PRO	N-CA-CB	6.41	111.00	103.30
29	D1	1227	C	C2-N1-C1'	6.41	125.85	118.80
29	B1	3198	U	C5-C6-N1	6.41	125.91	122.70
1	C1	869	A	N3-C4-C5	-6.41	122.31	126.80
1	C1	1549	C	C4-C5-C6	6.41	120.61	117.40
29	D1	2830	G	C2-N3-C4	-6.41	108.70	111.90
29	B1	669	U	C6-N1-C1'	-6.41	112.23	121.20
1	C1	1564	U	N1-C2-O2	-6.41	118.31	122.80
29	D1	2391	G	C8-N9-C4	6.41	108.96	106.40
29	D1	2662	G	C5-C6-O6	-6.41	124.76	128.60
1	A1	16	G	N3-C4-N9	6.41	129.84	126.00
29	B1	2325	G	C8-N9-C4	-6.41	103.84	106.40
10	AI	38	PRO	N-CA-CB	6.40	110.98	103.30
37	BF	68	PRO	N-CA-CB	6.40	110.98	103.30
29	D1	2435	G	C5-C6-O6	-6.40	124.76	128.60
29	B1	343	U	N1-C2-O2	6.40	127.28	122.80
29	B1	880	G	C4-N9-C1'	-6.40	118.18	126.50
29	B1	3077	A	N9-C4-C5	6.40	108.36	105.80
29	B1	3210	A	C8-N9-C4	6.40	108.36	105.80
3	CB	74	PRO	N-CA-CB	6.40	110.98	103.30
29	D1	2396	G	C4-N9-C1'	6.40	134.82	126.50
29	D1	2912	G	C4-C5-N7	6.40	113.36	110.80
38	BG	162	PRO	N-CA-CB	6.40	110.98	103.30
4	CC	163	PRO	N-CA-CB	6.40	110.98	103.30
29	D1	2587	U	N3-C4-O4	6.40	123.88	119.40
29	D1	409	A	N7-C8-N9	-6.40	110.60	113.80
29	D1	3124	G	N9-C4-C5	6.40	107.96	105.40
29	B1	575	G	C8-N9-C4	-6.40	103.84	106.40
29	B1	997	A	N1-C2-N3	6.40	132.50	129.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3390	G	C6-C5-N7	-6.40	126.56	130.40
13	CL	76	PRO	N-CA-CB	6.40	110.98	103.30
29	D1	52	A	C4-N9-C1'	6.40	137.82	126.30
29	D1	1188	U	N1-C2-N3	6.40	118.74	114.90
29	D1	3093	C	N3-C2-O2	6.40	126.38	121.90
42	BK	45	PRO	N-CA-CB	6.40	110.97	103.30
29	B1	1589	A	C5-N7-C8	-6.39	100.70	103.90
29	B1	3132	C	C6-N1-C2	6.39	122.86	120.30
29	B1	3314	A	N1-C2-N3	6.39	132.50	129.30
32	BA	56	PRO	N-CA-CB	6.39	110.97	103.30
29	D1	2136	C	N3-C2-O2	-6.39	117.42	121.90
29	D1	2895	G	N3-C4-N9	-6.39	122.16	126.00
30	D2	9	C	C4-C5-C6	6.39	120.60	117.40
1	C1	1141	G	N9-C4-C5	-6.39	102.84	105.40
14	CM	118	PRO	N-CA-CB	6.39	110.97	103.30
29	B1	822	G	C8-N9-C4	6.39	108.96	106.40
29	D1	3034	C	N3-C4-C5	6.39	124.46	121.90
31	D3	68	G	N3-C4-C5	6.39	131.79	128.60
29	B1	2901	G	N3-C4-C5	-6.39	125.41	128.60
29	D1	190	U	C6-N1-C1'	6.39	130.14	121.20
29	D1	1877	U	C6-N1-C1'	-6.39	112.26	121.20
29	B1	1802	C	N3-C4-C5	6.38	124.45	121.90
29	D1	2294	U	N3-C2-O2	-6.38	117.73	122.20
13	AL	76	PRO	N-CA-CB	6.38	110.96	103.30
29	B1	1434	G	C8-N9-C1'	-6.38	118.70	127.00
29	D1	289	A	C8-N9-C4	6.38	108.35	105.80
29	D1	2918	G	C2-N3-C4	6.38	115.09	111.90
29	D1	3261	C	N3-C2-O2	-6.38	117.43	121.90
29	B1	1048	A	C4-C5-N7	6.38	113.89	110.70
29	B1	1056	U	N3-C4-C5	6.38	118.43	114.60
29	D1	2283	G	N1-C6-O6	6.38	123.73	119.90
29	D1	2776	C	C2-N1-C1'	6.38	125.82	118.80
29	B1	3198	U	C6-N1-C1'	-6.38	112.27	121.20
29	B1	3200	G	C5-C6-N1	-6.38	108.31	111.50
29	B1	343	U	C2-N1-C1'	6.38	125.36	117.70
29	B1	3130	A	C6-C5-N7	-6.38	127.83	132.30
1	C1	427	C	N1-C2-O2	-6.38	115.07	118.90
29	D1	89	A	N1-C6-N6	6.38	122.43	118.60
29	D1	2358	A	C4-C5-C6	-6.38	113.81	117.00
29	B1	118	U	N3-C2-O2	-6.38	117.74	122.20
29	B1	146	U	C2-N1-C1'	6.38	125.35	117.70
29	B1	229	G	C8-N9-C4	-6.38	103.85	106.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2681	U	N1-C2-O2	6.38	127.26	122.80
29	D1	189	G	C6-N1-C2	-6.38	121.28	125.10
29	D1	593	C	C2-N1-C1'	6.38	125.81	118.80
29	D1	994	G	C8-N9-C1'	-6.38	118.71	127.00
29	D1	1115	G	C6-C5-N7	-6.38	126.57	130.40
29	D1	3025	C	N3-C2-O2	6.38	126.36	121.90
29	B1	1319	G	N3-C4-C5	6.38	131.79	128.60
29	B1	3246	G	N9-C4-C5	6.38	107.95	105.40
33	DB	103	PRO	N-CA-CB	6.38	110.95	103.30
29	B1	1113	G	C6-C5-N7	-6.37	126.58	130.40
29	B1	3219	G	C2-N3-C4	-6.37	108.71	111.90
29	D1	3180	A	C2-N3-C4	6.37	113.79	110.60
47	DR	97	PRO	N-CA-CB	6.37	110.95	103.30
29	B1	865	U	C2-N1-C1'	-6.37	110.06	117.70
29	B1	1525	G	C6-C5-N7	-6.37	126.58	130.40
29	D1	827	A	N1-C6-N6	-6.37	114.78	118.60
29	B1	2700	G	N3-C4-N9	6.37	129.82	126.00
29	B1	3246	G	C8-N9-C4	-6.37	103.85	106.40
37	BF	75	PRO	N-CA-CB	6.37	110.94	103.30
29	D1	2415	C	C2-N3-C4	-6.37	116.72	119.90
1	A1	1046	G	N3-C4-C5	-6.37	125.42	128.60
29	D1	687	U	C6-N1-C1'	6.37	130.11	121.20
1	A1	1606	C	N3-C2-O2	6.37	126.36	121.90
29	B1	1387	G	C5-C6-O6	-6.37	124.78	128.60
29	B1	1330	A	N1-C2-N3	6.36	132.48	129.30
29	B1	1422	G	N3-C2-N2	-6.36	115.45	119.90
29	B1	875	G	C4-N9-C1'	6.36	134.77	126.50
29	B1	3261	C	C6-N1-C2	-6.36	117.76	120.30
29	B1	2353	G	N1-C6-O6	6.36	123.72	119.90
1	A1	439	U	C2-N1-C1'	6.36	125.33	117.70
6	CE	67	PRO	N-CA-CB	6.36	110.93	103.30
29	D1	1677	G	C5-C6-O6	6.36	132.41	128.60
29	D1	2278	C	N1-C2-N3	-6.36	114.75	119.20
31	D3	87	G	C4-N9-C1'	6.36	134.76	126.50
29	D1	599	C	C6-N1-C2	6.36	122.84	120.30
1	C1	54	C	C6-N1-C2	6.35	122.84	120.30
1	C1	610	G	C4-C5-N7	6.35	113.34	110.80
1	C1	1234	A	N1-C2-N3	-6.35	126.12	129.30
29	D1	3261	C	N1-C2-N3	6.35	123.65	119.20
33	DB	66	PRO	N-CA-CB	6.35	110.92	103.30
1	C1	4	C	N3-C4-C5	6.35	124.44	121.90
1	C1	336	G	N1-C2-N3	6.35	127.71	123.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	358	U	N3-C2-O2	-6.35	117.75	122.20
17	CP	64	PRO	N-CA-CB	6.35	110.92	103.30
29	D1	404	G	C8-N9-C1'	-6.35	118.74	127.00
29	D1	1327	C	N1-C2-N3	6.35	123.65	119.20
29	D1	3376	A	C5-C6-N1	6.35	120.88	117.70
29	B1	659	G	N3-C4-C5	-6.35	125.42	128.60
29	B1	3069	G	C5-C6-O6	-6.35	124.79	128.60
29	D1	434	U	C2-N1-C1'	-6.35	110.08	117.70
29	D1	1190	A	N3-C4-C5	-6.35	122.36	126.80
29	D1	2920	U	N1-C2-N3	6.35	118.71	114.90
1	A1	329	G	N3-C4-C5	6.35	131.77	128.60
29	B1	3192	U	N3-C2-O2	6.35	126.64	122.20
29	B1	644	G	N1-C2-N3	6.35	127.71	123.90
38	BG	204	PRO	N-CA-CB	6.35	110.92	103.30
29	B1	703	G	C8-N9-C1'	6.34	135.25	127.00
29	B1	951	A	C5-C6-N1	6.34	120.87	117.70
29	B1	1190	A	N3-C4-C5	-6.34	122.36	126.80
29	B1	2687	G	C2-N3-C4	6.34	115.07	111.90
1	C1	440	U	N1-C2-O2	-6.34	118.36	122.80
33	DB	108	PRO	N-CA-CB	6.34	110.91	103.30
3	AB	239	PRO	N-CA-CB	6.34	110.91	103.30
72	DL	88	PRO	N-CA-CB	6.34	110.91	103.30
29	B1	1160	C	C6-N1-C1'	-6.34	113.19	120.80
35	BD	223	PRO	N-CA-CB	6.34	110.91	103.30
1	A1	1322	A	C8-N9-C4	6.34	108.34	105.80
29	B1	515	C	N3-C2-O2	6.34	126.34	121.90
29	B1	1371	G	C4-C5-N7	6.34	113.34	110.80
29	D1	2863	G	C5-C6-O6	6.34	132.40	128.60
29	B1	1050	U	C5-C6-N1	-6.34	119.53	122.70
29	B1	1556	C	N1-C2-O2	6.34	122.70	118.90
29	D1	1005	G	N3-C4-N9	-6.34	122.20	126.00
29	B1	518	G	N1-C6-O6	6.34	123.70	119.90
29	B1	2889	C	C5-C6-N1	-6.34	117.83	121.00
29	D1	685	G	C6-C5-N7	-6.34	126.60	130.40
29	D1	782	U	C5-C4-O4	-6.34	122.10	125.90
29	B1	951	A	C5-C6-N6	-6.33	118.63	123.70
29	B1	3323	A	N1-C2-N3	-6.33	126.13	129.30
29	B1	1368	U	C2-N1-C1'	6.33	125.30	117.70
29	B1	2400	G	C6-C5-N7	-6.33	126.60	130.40
30	D2	87	G	N1-C6-O6	6.33	123.70	119.90
58	Dc	42	PRO	N-CA-CB	6.33	110.90	103.30
29	B1	514	G	N9-C4-C5	6.33	107.93	105.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1367	G	C6-N1-C2	6.33	128.90	125.10
29	B1	3297	U	N1-C2-O2	6.33	127.23	122.80
29	D1	1212	A	C5-N7-C8	-6.33	100.73	103.90
29	D1	2887	A	N1-C6-N6	-6.33	114.80	118.60
29	D1	3220	G	N7-C8-N9	6.33	116.27	113.10
29	B1	1450	G	C4-N9-C1'	6.33	134.73	126.50
15	AN	96	PRO	N-CA-CB	6.33	110.89	103.30
29	B1	900	G	C8-N9-C4	6.33	108.93	106.40
1	C1	1653	C	C2-N1-C1'	-6.33	111.84	118.80
15	CN	71	PRO	N-CA-CB	6.33	110.89	103.30
29	D1	951	A	C8-N9-C4	6.33	108.33	105.80
29	B1	2865	U	N1-C2-O2	-6.33	118.37	122.80
1	C1	437	A	N1-C2-N3	6.33	132.46	129.30
29	D1	3220	G	C8-N9-C1'	-6.33	118.78	127.00
29	B1	2218	G	C5-C6-N1	6.33	114.66	111.50
29	B1	3177	G	N3-C4-C5	6.33	131.76	128.60
29	B1	3314	A	C4-C5-C6	6.33	120.16	117.00
29	B1	3322	A	N1-C2-N3	-6.33	126.14	129.30
1	C1	597	G	C5-C6-N1	6.33	114.66	111.50
29	D1	343	U	C2-N1-C1'	6.33	125.29	117.70
29	D1	2950	G	C4-C5-N7	6.33	113.33	110.80
1	C1	1141	G	C4-N9-C1'	6.32	134.72	126.50
1	C1	1335	U	N3-C2-O2	-6.32	117.77	122.20
29	D1	639	G	N1-C6-O6	6.32	123.69	119.90
2	AA	68	PRO	N-CA-CB	6.32	110.89	103.30
29	B1	3143	C	N3-C4-N4	6.32	122.42	118.00
29	B1	3215	A	C2-N3-C4	6.32	113.76	110.60
29	B1	3250	U	C2-N1-C1'	-6.32	110.11	117.70
29	D1	2707	C	C5-C6-N1	-6.32	117.84	121.00
30	D2	35	C	C2-N1-C1'	6.32	125.75	118.80
1	C1	1604	U	C2-N1-C1'	6.32	125.28	117.70
29	D1	3219	G	N3-C4-C5	6.32	131.76	128.60
29	B1	2149	A	C6-N1-C2	-6.32	114.81	118.60
1	C1	1789	G	N9-C4-C5	-6.32	102.87	105.40
29	D1	347	G	C6-C5-N7	-6.32	126.61	130.40
9	AH	94	PRO	N-CA-CB	6.32	110.88	103.30
29	B1	335	G	C4-C5-N7	6.32	113.33	110.80
29	B1	1410	U	C5-C4-O4	-6.32	122.11	125.90
29	B1	2601	A	N1-C2-N3	-6.32	126.14	129.30
29	B1	3019	U	C5-C4-O4	-6.32	122.11	125.90
29	D1	3185	U	C5-C4-O4	6.32	129.69	125.90
29	D1	3377	G	C4-N9-C1'	6.32	134.71	126.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	479	C	N1-C2-O2	-6.32	115.11	118.90
38	BG	210	PRO	N-CA-CB	6.32	110.88	103.30
29	D1	792	G	C8-N9-C4	6.32	108.93	106.40
54	BY	83	PRO	N-CA-CB	6.31	110.88	103.30
1	C1	684	A	C5-C6-N1	6.31	120.86	117.70
29	D1	1907	C	N1-C2-O2	-6.31	115.11	118.90
29	D1	3133	C	C5-C4-N4	-6.31	115.78	120.20
30	D2	10	C	C6-N1-C2	-6.31	117.78	120.30
1	A1	1632	C	C6-N1-C2	-6.31	117.78	120.30
29	B1	1388	U	C6-N1-C2	6.31	124.78	121.00
29	B1	2857	C	N3-C4-C5	6.31	124.42	121.90
1	C1	757	A	C2-N3-C4	-6.31	107.44	110.60
29	D1	1888	U	C2-N1-C1'	-6.31	110.13	117.70
38	DG	99	PRO	N-CA-CB	6.31	110.87	103.30
29	B1	1321	G	N7-C8-N9	-6.31	109.95	113.10
29	B1	1429	G	N1-C2-N2	-6.31	110.52	116.20
29	B1	2847	A	C8-N9-C4	-6.31	103.28	105.80
1	C1	825	U	N3-C2-O2	-6.31	117.78	122.20
1	C1	1203	A	N1-C2-N3	6.31	132.45	129.30
17	CP	88	PRO	N-CA-CB	6.31	110.87	103.30
29	D1	2912	G	N1-C6-O6	6.31	123.68	119.90
29	B1	70	A	C2-N3-C4	6.31	113.75	110.60
29	B1	284	A	C6-N1-C2	-6.31	114.82	118.60
1	C1	1173	C	N3-C4-C5	6.31	124.42	121.90
38	BG	193	PRO	N-CA-CB	6.30	110.87	103.30
29	D1	3380	U	C5-C4-O4	6.30	129.68	125.90
2	CA	118	PRO	N-CA-CB	6.30	110.86	103.30
15	CN	96	PRO	N-CA-CB	6.30	110.86	103.30
1	C1	1421	A	N1-C6-N6	-6.30	114.82	118.60
29	D1	2247	G	C8-N9-C4	6.30	108.92	106.40
29	B1	2419	A	C5-C6-N6	6.30	128.74	123.70
29	D1	1897	G	N1-C6-O6	6.30	123.68	119.90
1	A1	437	A	N1-C2-N3	6.30	132.45	129.30
29	B1	1124	U	C6-N1-C1'	-6.30	112.38	121.20
1	C1	1418	G	C5-C6-O6	-6.30	124.82	128.60
1	C1	1455	G	N3-C4-N9	-6.30	122.22	126.00
29	D1	2162	U	C5-C6-N1	-6.30	119.55	122.70
29	D1	3198	U	C5-C6-N1	6.30	125.85	122.70
29	B1	1193	A	N1-C6-N6	6.29	122.38	118.60
29	B1	1439	U	N1-C2-O2	-6.29	118.39	122.80
29	D1	171	G	N3-C4-N9	6.29	129.78	126.00
29	D1	1076	C	C2-N1-C1'	6.29	125.72	118.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1048	A	C5-N7-C8	-6.29	100.75	103.90
1	C1	825	U	N3-C4-C5	-6.29	110.82	114.60
73	DM	78	PRO	N-CA-CB	6.29	110.85	103.30
31	B3	58	G	C5-C6-O6	-6.29	124.83	128.60
29	D1	315	C	C2-N1-C1'	6.29	125.72	118.80
29	B1	1450	G	C5-N7-C8	-6.29	101.16	104.30
29	B1	517	G	C8-N9-C1'	6.29	135.18	127.00
29	B1	804	C	C2-N1-C1'	-6.29	111.88	118.80
29	B1	1048	A	C4-C5-C6	-6.29	113.86	117.00
1	C1	1773	C	N1-C2-O2	-6.29	115.13	118.90
29	D1	150	A	C6-N1-C2	-6.29	114.83	118.60
29	D1	352	A	C5-C6-N6	6.29	128.73	123.70
1	C1	1453	G	C8-N9-C4	6.29	108.92	106.40
29	D1	41	G	N3-C4-N9	-6.29	122.23	126.00
29	D1	1126	G	C8-N9-C4	-6.29	103.89	106.40
1	A1	986	G	C8-N9-C4	-6.29	103.89	106.40
29	B1	171	G	C8-N9-C1'	-6.29	118.83	127.00
29	B1	584	G	N7-C8-N9	-6.29	109.96	113.10
29	B1	645	A	N3-C4-C5	-6.29	122.40	126.80
58	Bc	42	PRO	N-CA-CB	6.29	110.84	103.30
29	B1	513	G	C4-C5-N7	-6.28	108.29	110.80
29	D1	1123	U	C5-C6-N1	-6.28	119.56	122.70
29	D1	3179	U	C2-N3-C4	6.28	130.77	127.00
29	D1	3291	G	C6-C5-N7	-6.28	126.63	130.40
1	A1	45	U	N1-C2-O2	6.28	127.20	122.80
29	B1	378	A	C2-N3-C4	6.28	113.74	110.60
31	D3	50	C	C2-N1-C1'	-6.28	111.89	118.80
30	B2	112	G	C5-C6-O6	6.28	132.37	128.60
29	D1	1450	G	N7-C8-N9	6.28	116.24	113.10
54	BY	50	PRO	N-CA-CB	6.28	110.83	103.30
29	D1	723	U	C5-C6-N1	6.28	125.84	122.70
29	B1	815	G	C5-C6-O6	-6.28	124.83	128.60
29	B1	3291	G	C8-N9-C1'	-6.28	118.84	127.00
3	CB	37	PRO	N-CA-CB	6.27	110.83	103.30
29	D1	1337	A	C8-N9-C4	6.27	108.31	105.80
29	B1	2935	U	N1-C2-N3	6.27	118.66	114.90
29	D1	1302	A	N3-C4-C5	-6.27	122.41	126.80
29	D1	1857	C	N3-C4-C5	6.27	124.41	121.90
29	D1	1905	G	N3-C4-N9	-6.27	122.24	126.00
3	AB	173	PRO	N-CA-CB	6.27	110.83	103.30
29	B1	26	A	N3-C4-C5	-6.27	122.41	126.80
1	C1	1348	A	N1-C6-N6	6.27	122.36	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	CR	47	PRO	N-CA-CB	6.27	110.82	103.30
29	D1	3113	A	C8-N9-C4	6.27	108.31	105.80
29	D1	666	A	C2-N3-C4	-6.27	107.47	110.60
29	D1	2845	A	C6-C5-N7	-6.27	127.91	132.30
29	D1	3185	U	N3-C2-O2	-6.27	117.81	122.20
29	D1	3199	G	N3-C2-N2	-6.27	115.51	119.90
29	B1	1547	G	N9-C4-C5	-6.27	102.89	105.40
29	D1	1160	C	N1-C2-N3	-6.27	114.81	119.20
29	D1	3307	A	N1-C6-N6	6.27	122.36	118.60
29	B1	698	U	C2-N1-C1'	6.26	125.22	117.70
29	B1	927	C	C5-C6-N1	-6.26	117.87	121.00
29	D1	575	G	C8-N9-C4	-6.26	103.89	106.40
29	D1	2714	G	C2-N3-C4	-6.26	108.77	111.90
29	B1	2331	C	C5-C6-N1	-6.26	117.87	121.00
29	B1	3178	A	C2-N3-C4	-6.26	107.47	110.60
30	B2	9	C	C4-C5-C6	6.26	120.53	117.40
30	B2	58	C	C6-N1-C1'	-6.26	113.29	120.80
37	BF	123	PRO	N-CA-CB	6.26	110.81	103.30
29	D1	676	G	C8-N9-C1'	-6.26	118.86	127.00
29	D1	3103	A	C5-C6-N1	6.26	120.83	117.70
29	B1	1171	G	C8-N9-C4	-6.26	103.90	106.40
5	CD	88	PRO	N-CA-CB	6.26	110.81	103.30
29	D1	1439	U	N3-C2-O2	6.26	126.58	122.20
29	D1	1547	G	C5-C6-O6	-6.26	124.84	128.60
30	D2	101	G	C8-N9-C1'	6.25	135.13	127.00
1	A1	577	G	C8-N9-C1'	-6.25	118.87	127.00
4	AC	43	PRO	N-CA-CB	6.25	110.80	103.30
29	B1	836	A	C5-C6-N1	6.25	120.83	117.70
29	B1	853	G	N7-C8-N9	-6.25	109.97	113.10
29	D1	752	C	C6-N1-C1'	-6.25	113.30	120.80
29	D1	1186	G	C6-C5-N7	-6.25	126.65	130.40
57	Db	123	LYS	N-CA-C	-6.25	94.11	111.00
1	A1	1431	C	C6-N1-C2	6.25	122.80	120.30
29	B1	1522	U	C2-N1-C1'	6.25	125.20	117.70
29	B1	2248	C	C6-N1-C2	6.25	122.80	120.30
29	B1	3257	C	C2-N3-C4	-6.25	116.77	119.90
1	C1	1564	U	C6-N1-C2	6.25	124.75	121.00
29	D1	1403	C	N3-C4-C5	6.25	124.40	121.90
29	D1	2700	G	C5-C6-O6	-6.25	124.85	128.60
29	D1	3328	G	N9-C4-C5	-6.25	102.90	105.40
29	B1	3386	G	C2-N3-C4	-6.25	108.78	111.90
29	B1	3322	A	N3-C4-C5	6.25	131.17	126.80

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	514	G	N3-C2-N2	-6.25	115.53	119.90
29	D1	2355	G	C4-N9-C1'	6.25	134.62	126.50
1	A1	1450	U	N3-C4-C5	6.25	118.35	114.60
29	B1	94	G	C5-C6-O6	6.25	132.35	128.60
29	B1	1298	C	C6-N1-C2	6.25	122.80	120.30
29	B1	2919	A	C6-C5-N7	-6.25	127.93	132.30
35	BD	240	PRO	N-CA-CB	6.25	110.80	103.30
1	C1	400	A	N1-C6-N6	-6.25	114.85	118.60
29	D1	94	G	C8-N9-C1'	6.25	135.12	127.00
29	D1	949	C	N1-C2-N3	6.25	123.57	119.20
1	A1	614	C	C6-N1-C2	6.25	122.80	120.30
29	B1	3044	G	N7-C8-N9	-6.25	109.98	113.10
29	D1	677	A	N7-C8-N9	6.25	116.92	113.80
58	Dc	39	PRO	N-CA-CB	6.25	110.79	103.30
1	A1	1450	U	N1-C2-O2	6.24	127.17	122.80
29	B1	2881	C	C5-C6-N1	-6.24	117.88	121.00
36	BE	84	PRO	N-CA-CB	6.24	110.79	103.30
29	D1	674	G	N1-C6-O6	6.24	123.65	119.90
29	D1	2365	C	C5-C6-N1	-6.24	117.88	121.00
29	D1	720	A	N7-C8-N9	6.24	116.92	113.80
53	DX	101	PRO	N-CA-CB	6.24	110.79	103.30
29	B1	164	A	C5-C6-N6	-6.24	118.71	123.70
29	B1	3069	G	C6-C5-N7	-6.24	126.66	130.40
41	BJ	179	PRO	N-CA-CB	6.24	110.79	103.30
45	BP	110	PRO	N-CA-CB	6.24	110.79	103.30
1	C1	402	C	C3'-C2'-C1'	-6.24	96.51	101.50
29	D1	1123	U	C2-N1-C1'	-6.24	110.21	117.70
40	DI	98	PRO	N-CA-CB	6.24	110.79	103.30
29	B1	738	A	N1-C2-N3	-6.24	126.18	129.30
29	B1	826	G	N7-C8-N9	-6.24	109.98	113.10
30	B2	9	C	C6-N1-C2	-6.24	117.80	120.30
30	B2	65	G	N3-C4-N9	6.24	129.74	126.00
30	B2	105	C	N3-C4-C5	6.24	124.39	121.90
29	D1	651	G	C2-N3-C4	-6.24	108.78	111.90
29	D1	1099	A	C2-N3-C4	-6.24	107.48	110.60
29	B1	746	A	C5-C6-N1	6.24	120.82	117.70
29	B1	3188	G	N3-C4-N9	6.24	129.74	126.00
1	C1	313	U	C5-C6-N1	-6.24	119.58	122.70
29	D1	2282	U	N3-C2-O2	6.24	126.56	122.20
29	D1	3099	C	C2-N3-C4	6.24	123.02	119.90
29	D1	1331	U	N1-C2-O2	-6.23	118.44	122.80
54	BY	45	MET	N-CA-C	6.23	127.83	111.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1141	G	C6-C5-N7	-6.23	126.66	130.40
29	D1	2895	G	N3-C2-N2	-6.23	115.54	119.90
29	D1	3143	C	N3-C2-O2	6.23	126.26	121.90
29	B1	779	G	N9-C4-C5	-6.23	102.91	105.40
29	B1	1091	A	C5-C6-N6	-6.23	118.72	123.70
29	B1	3084	C	C2-N1-C1'	6.23	125.65	118.80
29	B1	3227	A	N1-C2-N3	-6.23	126.19	129.30
29	D1	1111	U	C2-N3-C4	-6.23	123.26	127.00
29	B1	584	G	C4-N9-C1'	-6.23	118.40	126.50
29	B1	3379	C	N3-C4-C5	-6.23	119.41	121.90
29	D1	1152	G	N3-C4-C5	6.23	131.72	128.60
29	B1	380	U	N3-C2-O2	6.23	126.56	122.20
1	C1	403	G	N3-C4-C5	6.23	131.71	128.60
1	C1	1131	A	C5-C6-N1	6.23	120.81	117.70
29	D1	284	A	N1-C6-N6	-6.23	114.86	118.60
29	D1	2262	A	C5-C6-N1	-6.23	114.59	117.70
29	B1	3177	G	C8-N9-C1'	6.23	135.09	127.00
8	CG	82	PRO	N-CA-CB	6.23	110.77	103.30
29	D1	137	G	N9-C4-C5	-6.23	102.91	105.40
1	A1	1599	C	N1-C2-O2	6.22	122.64	118.90
29	B1	718	G	C5-C6-N1	6.22	114.61	111.50
29	B1	1312	C	C6-N1-C2	-6.22	117.81	120.30
29	B1	1650	G	C5-C6-N1	6.22	114.61	111.50
29	B1	3269	U	C5-C4-O4	-6.22	122.17	125.90
29	B1	3062	G	C5-C6-O6	-6.22	124.87	128.60
29	B1	3109	G	N3-C4-C5	-6.22	125.49	128.60
29	B1	2983	C	N3-C2-O2	-6.22	117.55	121.90
29	D1	2287	C	C5-C4-N4	6.22	124.56	120.20
1	A1	1431	C	N3-C4-C5	6.22	124.39	121.90
29	D1	3209	A	C8-N9-C4	-6.22	103.31	105.80
59	Dd	6	PRO	N-CA-CB	6.22	110.76	103.30
29	D1	1902	G	C4-N9-C1'	6.22	134.58	126.50
29	D1	1941	C	C6-N1-C2	6.22	122.79	120.30
1	A1	869	A	N3-C4-C5	-6.22	122.45	126.80
1	A1	1408	G	C4-N9-C1'	6.22	134.58	126.50
29	D1	1313	G	C5-C6-O6	6.22	132.33	128.60
29	D1	3314	A	N3-C4-C5	-6.22	122.45	126.80
31	D3	16	G	N1-C6-O6	6.22	123.63	119.90
29	B1	966	U	N3-C4-O4	6.21	123.75	119.40
1	C1	647	G	N3-C4-C5	-6.21	125.49	128.60
29	B1	963	G	C4-C5-C6	6.21	122.53	118.80
29	D1	3088	G	N1-C6-O6	6.21	123.63	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2881	C	C6-N1-C2	6.21	122.78	120.30
29	B1	2924	U	C6-N1-C2	6.21	124.73	121.00
30	B2	113	C	N3-C4-C5	6.21	124.39	121.90
29	D1	94	G	C4-N9-C1'	-6.21	118.43	126.50
29	D1	2690	G	C5-C6-O6	-6.21	124.87	128.60
29	D1	3019	U	C2-N3-C4	-6.21	123.27	127.00
29	D1	2527	G	N3-C4-C5	6.21	131.71	128.60
29	B1	3096	C	C6-N1-C2	6.21	122.78	120.30
29	D1	1010	G	C5-C6-O6	-6.21	124.88	128.60
29	D1	1333	C	C6-N1-C2	6.21	122.78	120.30
29	B1	712	G	N9-C4-C5	-6.21	102.92	105.40
29	B1	931	C	C6-N1-C2	-6.21	117.82	120.30
29	B1	2353	G	N9-C4-C5	-6.21	102.92	105.40
1	C1	789	A	C8-N9-C4	-6.21	103.32	105.80
15	CN	55	PRO	N-CA-CB	6.21	110.75	103.30
29	D1	576	C	N3-C2-O2	6.21	126.24	121.90
35	DD	205	PRO	N-CA-CB	6.21	110.75	103.30
1	C1	479	C	C2-N1-C1'	-6.21	111.97	118.80
29	B1	589	A	N7-C8-N9	6.20	116.90	113.80
29	B1	2280	A	C8-N9-C4	-6.20	103.32	105.80
1	C1	1438	G	N3-C4-N9	6.20	129.72	126.00
12	CK	22	PRO	N-CA-CB	6.20	110.75	103.30
29	D1	589	A	C4-N9-C1'	6.20	137.47	126.30
29	D1	716	A	C8-N9-C4	-6.20	103.32	105.80
29	D1	2974	U	C5-C6-N1	-6.20	119.60	122.70
29	D1	1152	G	C6-C5-N7	-6.20	126.68	130.40
29	D1	1367	G	N3-C4-C5	6.20	131.70	128.60
29	D1	3201	C	C6-N1-C2	-6.20	117.82	120.30
29	B1	676	G	C8-N9-C1'	-6.20	118.94	127.00
29	B1	744	A	N7-C8-N9	-6.20	110.70	113.80
29	B1	1480	G	C4-C5-N7	6.20	113.28	110.80
1	C1	1725	U	C6-N1-C1'	-6.20	112.52	121.20
1	A1	1045	C	N3-C4-N4	-6.20	113.66	118.00
1	A1	1591	C	N1-C2-O2	-6.20	115.18	118.90
29	B1	1085	A	N7-C8-N9	6.20	116.90	113.80
29	B1	1320	C	C6-N1-C2	-6.20	117.82	120.30
29	D1	706	A	C2-N3-C4	-6.20	107.50	110.60
29	D1	890	C	C2-N3-C4	-6.20	116.80	119.90
29	D1	2618	G	C8-N9-C4	-6.20	103.92	106.40
29	B1	656	A	N3-C4-C5	-6.20	122.46	126.80
29	B1	1457	U	N1-C2-O2	-6.20	118.46	122.80
1	C1	314	C	C6-N1-C2	6.20	122.78	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2267	C	N1-C2-O2	-6.20	115.18	118.90
29	B1	1918	C	C6-N1-C2	-6.19	117.82	120.30
29	B1	2601	A	N3-C4-C5	6.19	131.14	126.80
1	C1	1642	G	N3-C4-C5	6.19	131.70	128.60
1	A1	1173	C	N3-C4-C5	6.19	124.38	121.90
6	AE	67	PRO	N-CA-CB	6.19	110.73	103.30
29	B1	2990	G	N3-C4-C5	6.19	131.70	128.60
29	D1	497	C	N3-C4-C5	6.19	124.38	121.90
29	D1	1330	A	C5-C6-N1	-6.19	114.60	117.70
29	D1	2287	C	N1-C2-N3	6.19	123.53	119.20
29	D1	2329	C	N1-C2-O2	-6.19	115.19	118.90
1	A1	869	A	N3-C4-N9	6.19	132.35	127.40
29	B1	2689	A	C4-C5-C6	6.19	120.09	117.00
29	D1	1318	A	C5-C6-N1	6.19	120.80	117.70
29	D1	1670	C	N1-C2-O2	6.19	122.61	118.90
29	D1	2941	A	N1-C6-N6	-6.19	114.89	118.60
54	DY	50	PRO	N-CA-CB	6.19	110.73	103.30
29	B1	2330	C	C5-C6-N1	-6.19	117.91	121.00
29	D1	1048	A	C4-C5-C6	-6.19	113.91	117.00
29	D1	2349	U	N1-C2-N3	6.19	118.61	114.90
29	B1	756	U	C5-C4-O4	-6.19	122.19	125.90
2	CA	11	PRO	N-CA-CB	6.19	110.72	103.30
29	D1	190	U	C5-C4-O4	6.19	129.61	125.90
29	D1	434	U	N3-C2-O2	6.19	126.53	122.20
29	D1	517	G	C8-N9-C1'	6.19	135.04	127.00
29	D1	646	A	C2-N3-C4	-6.19	107.51	110.60
54	DY	119	PRO	N-CA-CB	6.19	110.73	103.30
29	B1	924	G	C4-C5-N7	6.18	113.27	110.80
29	B1	2807	U	C5-C4-O4	-6.18	122.19	125.90
1	C1	684	A	C6-N1-C2	-6.18	114.89	118.60
1	C1	1303	U	C2-N1-C1'	-6.18	110.28	117.70
1	C1	1378	U	C5-C6-N1	6.18	125.79	122.70
1	C1	1644	C	C5-C6-N1	-6.18	117.91	121.00
29	B1	422	A	C8-N9-C1'	6.18	138.83	127.70
29	B1	2901	G	N3-C4-N9	6.18	129.71	126.00
30	B2	77	G	N9-C4-C5	-6.18	102.93	105.40
1	C1	1145	U	N3-C2-O2	6.18	126.53	122.20
7	CF	95	PRO	N-CA-CB	6.18	110.72	103.30
29	D1	45	A	N3-C4-C5	6.18	131.13	126.80
29	D1	86	G	C4-N9-C1'	-6.18	118.46	126.50
29	B1	1490	A	N7-C8-N9	-6.18	110.71	113.80
1	A1	1788	G	N3-C4-N9	-6.18	122.29	126.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CB	182	PRO	N-CA-CB	6.18	110.72	103.30
29	B1	1059	G	N3-C4-C5	6.18	131.69	128.60
1	C1	1073	G	C8-N9-C1'	-6.18	118.97	127.00
29	D1	2725	U	C5-C6-N1	6.18	125.79	122.70
29	D1	3002	C	C5-C6-N1	-6.18	117.91	121.00
3	AB	85	PRO	N-CA-CB	6.17	110.71	103.30
33	BB	206	PRO	N-CA-CB	6.17	110.71	103.30
29	D1	837	A	C8-N9-C4	-6.17	103.33	105.80
29	D1	1899	G	C5-C6-O6	6.17	132.31	128.60
29	D1	2689	A	C4-N9-C1'	6.17	137.42	126.30
29	D1	2823	G	C4-N9-C1'	-6.17	118.47	126.50
1	A1	1498	G	C8-N9-C1'	-6.17	118.97	127.00
29	D1	536	U	N3-C2-O2	6.17	126.52	122.20
29	D1	651	G	C4-C5-N7	6.17	113.27	110.80
29	B1	352	A	N1-C6-N6	-6.17	114.90	118.60
29	B1	703	G	N3-C4-C5	6.17	131.69	128.60
29	D1	1296	C	C2-N3-C4	-6.17	116.81	119.90
29	D1	3205	G	N3-C4-N9	6.17	129.70	126.00
29	B1	91	G	N3-C4-C5	-6.17	125.52	128.60
37	DF	49	GLY	N-CA-C	-6.17	97.67	113.10
1	A1	1303	U	N1-C2-O2	-6.17	118.48	122.80
19	AR	47	PRO	N-CA-CB	6.17	110.70	103.30
29	B1	909	G	N1-C2-N3	6.17	127.60	123.90
29	B1	2278	C	C2-N1-C1'	6.17	125.59	118.80
18	CQ	55	PRO	N-CA-CB	6.17	110.70	103.30
12	AK	22	PRO	N-CA-CB	6.17	110.70	103.30
29	B1	985	U	C2-N1-C1'	-6.17	110.30	117.70
29	B1	3392	U	N3-C4-C5	6.17	118.30	114.60
31	B3	41	A	N7-C8-N9	6.17	116.88	113.80
29	D1	94	G	C6-C5-N7	6.17	134.10	130.40
1	A1	13	C	C6-N1-C1'	-6.17	113.40	120.80
29	B1	513	G	C6-N1-C2	6.17	128.80	125.10
1	A1	752	A	N1-C6-N6	6.16	122.30	118.60
36	BE	181	PRO	N-CA-CB	6.16	110.70	103.30
1	A1	1455	G	C8-N9-C4	-6.16	103.94	106.40
29	B1	504	A	C4-C5-N7	6.16	113.78	110.70
1	A1	1611	A	N7-C8-N9	6.16	116.88	113.80
29	B1	192	C	N3-C2-O2	6.16	126.21	121.90
29	B1	1458	U	C2-N3-C4	-6.16	123.31	127.00
35	BD	205	PRO	N-CA-CB	6.16	110.69	103.30
29	D1	335	G	N1-C6-O6	6.16	123.59	119.90
29	D1	1099	A	C8-N9-C4	6.16	108.26	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3059	G	N9-C4-C5	-6.16	102.94	105.40
29	B1	3323	A	N3-C4-C5	6.16	131.11	126.80
29	D1	88	A	C8-N9-C4	6.16	108.26	105.80
29	D1	3018	C	N1-C2-O2	-6.16	115.21	118.90
29	B1	3219	G	N7-C8-N9	6.16	116.18	113.10
29	B1	3257	C	N3-C4-N4	-6.16	113.69	118.00
29	D1	2901	G	C4-C5-N7	6.16	113.26	110.80
29	D1	1324	U	C5-C4-O4	-6.15	122.21	125.90
29	D1	3332	U	N3-C4-C5	-6.15	110.91	114.60
29	B1	3059	G	N1-C6-O6	6.15	123.59	119.90
1	C1	981	U	C6-N1-C1'	-6.15	112.59	121.20
29	D1	222	A	C5-C6-N6	-6.15	118.78	123.70
29	D1	424	G	C4-C5-C6	6.15	122.49	118.80
29	D1	2120	A	C2-N3-C4	-6.15	107.52	110.60
29	B1	883	A	N1-C6-N6	-6.15	114.91	118.60
29	B1	2602	G	N3-C4-C5	6.15	131.68	128.60
29	D1	537	A	C5-C6-N6	6.15	128.62	123.70
29	B1	327	A	C5-C6-N1	-6.15	114.63	117.70
29	B1	1165	A	C2-N3-C4	-6.15	107.53	110.60
29	B1	1495	U	C5-C6-N1	-6.15	119.63	122.70
29	B1	1781	C	C2-N1-C1'	6.15	125.56	118.80
29	D1	1324	U	N3-C4-O4	6.15	123.70	119.40
29	D1	3227	A	C5-C6-N6	6.15	128.62	123.70
30	D2	103	A	N1-C6-N6	6.15	122.29	118.60
3	AB	74	PRO	N-CA-CB	6.15	110.67	103.30
29	B1	1047	A	N9-C4-C5	6.15	108.26	105.80
29	B1	2142	A	C8-N9-C4	6.15	108.26	105.80
29	B1	622	A	N1-C6-N6	6.14	122.29	118.60
29	B1	3201	C	C6-N1-C2	-6.14	117.84	120.30
1	C1	1636	C	N3-C4-C5	6.14	124.36	121.90
29	D1	744	A	C4-C5-N7	-6.14	107.63	110.70
29	D1	2642	A	C8-N9-C4	6.14	108.26	105.80
29	D1	3025	C	N1-C2-O2	-6.14	115.21	118.90
15	AN	55	PRO	N-CA-CB	6.14	110.67	103.30
29	B1	1397	C	N1-C2-O2	-6.14	115.22	118.90
29	D1	338	A	C8-N9-C4	-6.14	103.34	105.80
29	D1	857	G	C5-C6-O6	6.14	132.28	128.60
29	D1	1525	G	C6-C5-N7	-6.14	126.71	130.40
29	D1	2392	C	N1-C2-O2	6.14	122.59	118.90
29	D1	2916	U	N3-C2-O2	6.14	126.50	122.20
1	A1	1498	G	C4-N9-C1'	6.14	134.48	126.50
29	D1	1324	U	C5-C6-N1	6.14	125.77	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	281	G	C5-C6-O6	-6.14	124.92	128.60
29	B1	2968	G	N1-C6-O6	-6.14	116.22	119.90
29	B1	3219	G	N3-C4-C5	6.14	131.67	128.60
46	BQ	11	PRO	N-CA-CB	6.14	110.67	103.30
1	C1	16	G	N3-C2-N2	6.14	124.20	119.90
44	DO	154	PRO	N-CA-CB	6.14	110.67	103.30
21	AT	247	PRO	N-CA-CB	6.14	110.67	103.30
56	Ba	30	PRO	N-CA-CB	6.14	110.67	103.30
29	D1	2716	U	C2-N1-C1'	6.14	125.07	117.70
30	D2	46	A	N9-C4-C5	6.14	108.25	105.80
1	A1	406	U	N3-C2-O2	6.14	126.50	122.20
4	AC	192	PRO	N-CA-CB	6.14	110.66	103.30
29	B1	676	G	C8-N9-C4	-6.14	103.94	106.40
29	B1	2278	C	C6-N1-C1'	-6.14	113.44	120.80
29	B1	3377	G	C4-N9-C1'	6.14	134.48	126.50
1	C1	24	U	C5-C4-O4	-6.14	122.22	125.90
1	A1	825	U	C5-C6-N1	-6.13	119.63	122.70
29	B1	370	U	N3-C2-O2	6.13	126.49	122.20
29	B1	963	G	C5-C6-O6	-6.13	124.92	128.60
29	B1	1868	G	N1-C6-O6	6.13	123.58	119.90
1	C1	1745	G	C5-C6-N1	6.13	114.57	111.50
29	D1	607	A	N3-C4-C5	-6.13	122.51	126.80
1	A1	1541	G	C6-C5-N7	-6.13	126.72	130.40
29	B1	3393	U	C5-C6-N1	-6.13	119.63	122.70
29	B1	857	G	C5-C6-O6	6.13	132.28	128.60
1	C1	825	U	C5-C6-N1	-6.13	119.64	122.70
29	D1	2396	G	C8-N9-C1'	-6.13	119.03	127.00
14	AM	118	PRO	N-CA-CB	6.13	110.66	103.30
29	B1	148	G	C5-C6-N1	-6.13	108.44	111.50
29	B1	899	U	C5-C6-N1	-6.13	119.64	122.70
29	B1	2669	G	N9-C4-C5	-6.13	102.95	105.40
29	B1	3367	C	C6-N1-C2	6.13	122.75	120.30
29	D1	566	G	N9-C4-C5	6.13	107.85	105.40
29	D1	1143	A	C8-N9-C4	6.13	108.25	105.80
29	B1	2429	G	C8-N9-C4	-6.13	103.95	106.40
30	B2	105	C	C6-N1-C2	6.13	122.75	120.30
29	D1	537	A	N1-C6-N6	-6.13	114.92	118.60
29	D1	2700	G	C4-C5-N7	6.13	113.25	110.80
1	A1	1476	C	C6-N1-C2	6.12	122.75	120.30
8	AG	85	PRO	N-CA-CB	6.12	110.65	103.30
29	D1	968	G	N1-C2-N3	6.12	127.58	123.90
29	D1	1388	U	C2-N1-C1'	-6.12	110.35	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	481	A	C6-N1-C2	6.12	122.27	118.60
1	A1	1438	G	C6-C5-N7	-6.12	126.72	130.40
29	D1	2664	C	N1-C2-O2	6.12	122.57	118.90
1	A1	1792	G	N1-C6-O6	6.12	123.57	119.90
29	B1	151	A	C5-C6-N6	-6.12	118.80	123.70
29	B1	364	G	C8-N9-C1'	-6.12	119.04	127.00
29	B1	2700	G	C4-N9-C1'	6.12	134.46	126.50
29	B1	3268	A	C4-N9-C1'	-6.12	115.28	126.30
1	C1	1373	C	N1-C2-O2	-6.12	115.23	118.90
29	D1	2186	U	C5-C4-O4	6.12	129.57	125.90
29	B1	2639	G	N1-C6-O6	6.12	123.57	119.90
1	C1	358	U	N1-C2-O2	6.12	127.08	122.80
1	C1	1784	C	C6-N1-C2	6.12	122.75	120.30
29	B1	308	A	C4-C5-C6	6.12	120.06	117.00
29	B1	3173	G	C2-N3-C4	-6.12	108.84	111.90
29	D1	606	C	C5-C6-N1	6.12	124.06	121.00
29	D1	1371	G	C8-N9-C1'	-6.12	119.05	127.00
1	C1	1733	C	N1-C2-O2	-6.12	115.23	118.90
29	D1	1322	U	C5-C6-N1	6.12	125.76	122.70
6	AE	169	PRO	N-CA-CB	6.12	110.64	103.30
29	B1	52	A	N3-C4-C5	-6.12	122.52	126.80
1	C1	1141	G	N3-C4-N9	6.12	129.67	126.00
29	B1	345	G	C4-C5-C6	6.11	122.47	118.80
29	D1	1148	G	C4-C5-N7	6.11	113.25	110.80
29	D1	1371	G	C4-N9-C1'	6.11	134.45	126.50
29	D1	3209	A	N9-C4-C5	6.11	108.25	105.80
1	A1	437	A	C6-C5-N7	-6.11	128.02	132.30
29	B1	1609	C	N1-C2-O2	-6.11	115.23	118.90
29	B1	2892	A	C5-N7-C8	-6.11	100.84	103.90
1	C1	330	G	C5-C6-O6	-6.11	124.93	128.60
3	AB	171	PRO	N-CA-CB	6.11	110.63	103.30
29	B1	3228	C	N3-C4-C5	-6.11	119.45	121.90
45	BP	58	LEU	N-CA-C	-6.11	94.50	111.00
57	Bb	7	PRO	N-CA-CB	6.11	110.63	103.30
29	D1	2199	G	C8-N9-C4	-6.11	103.96	106.40
30	D2	113	C	N3-C2-O2	-6.11	117.62	121.90
29	D1	1517	G	N3-C4-C5	6.11	131.65	128.60
29	D1	3108	G	N1-C6-O6	-6.11	116.23	119.90
29	B1	625	G	C5-C6-O6	6.11	132.26	128.60
31	B3	92	A	C5-C6-N6	6.11	128.59	123.70
29	D1	606	C	N1-C2-O2	6.11	122.56	118.90
29	D1	3387	U	N1-C2-O2	-6.11	118.52	122.80

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1324	U	N3-C4-O4	6.11	123.67	119.40
29	B1	2362	C	C5-C4-N4	-6.11	115.93	120.20
29	B1	2935	U	C5-C4-O4	6.11	129.56	125.90
35	BD	102	PRO	N-CA-CB	6.11	110.63	103.30
1	C1	462	G	C4-N9-C1'	-6.11	118.56	126.50
29	D1	729	C	N3-C2-O2	-6.11	117.63	121.90
29	D1	2339	C	C6-N1-C2	-6.11	117.86	120.30
29	D1	3314	A	C8-N9-C4	-6.11	103.36	105.80
30	D2	112	G	C6-N1-C2	-6.11	121.44	125.10
29	B1	500	C	C5-C6-N1	6.10	124.05	121.00
29	B1	859	G	N3-C4-N9	6.10	129.66	126.00
1	C1	1279	C	N1-C2-O2	-6.10	115.24	118.90
37	DF	123	PRO	N-CA-CB	6.10	110.62	103.30
29	B1	853	G	C5-N7-C8	6.10	107.35	104.30
29	D1	1148	G	C6-C5-N7	-6.10	126.74	130.40
29	D1	2881	C	N3-C4-C5	6.10	124.34	121.90
29	D1	718	G	N3-C4-N9	6.10	129.66	126.00
29	D1	2970	C	C2-N1-C1'	6.10	125.51	118.80
29	B1	1861	G	N3-C4-C5	6.10	131.65	128.60
30	B2	112	G	N3-C4-C5	-6.10	125.55	128.60
45	BP	70	PRO	N-CA-CB	6.10	110.62	103.30
1	C1	1149	G	C5-C6-N1	6.10	114.55	111.50
29	D1	1140	G	C8-N9-C4	6.10	108.84	106.40
29	D1	1661	G	C4-C5-N7	6.10	113.24	110.80
29	B1	293	C	N1-C2-O2	-6.10	115.24	118.90
29	B1	3220	G	C6-C5-N7	-6.09	126.74	130.40
1	C1	1177	C	N3-C4-C5	6.09	124.34	121.90
29	D1	364	G	C8-N9-C1'	-6.09	119.08	127.00
29	D1	1126	G	C2-N3-C4	-6.09	108.85	111.90
29	D1	3227	A	C5-C6-N1	-6.09	114.65	117.70
29	B1	2289	U	C5-C6-N1	-6.09	119.65	122.70
29	D1	1134	G	C5-C6-O6	6.09	132.25	128.60
29	D1	3213	A	C5-N7-C8	-6.09	100.85	103.90
45	DP	76	PRO	N-CA-C	-6.09	96.26	112.10
1	A1	437	A	C5-C6-N1	6.09	120.74	117.70
1	A1	825	U	C2-N3-C4	-6.09	123.35	127.00
29	B1	583	G	C5-C6-O6	6.09	132.25	128.60
29	B1	608	A	C6-C5-N7	-6.09	128.04	132.30
29	B1	669	U	N3-C2-O2	-6.09	117.94	122.20
29	B1	1422	G	C2-N3-C4	-6.09	108.86	111.90
29	B1	1431	G	N3-C4-C5	-6.09	125.56	128.60
29	B1	2353	G	C6-C5-N7	-6.09	126.75	130.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3280	U	N3-C2-O2	6.09	126.46	122.20
29	D1	3045	G	C8-N9-C4	-6.09	103.96	106.40
73	DM	71	PRO	N-CA-CB	6.09	110.61	103.30
29	B1	3271	G	C2-N3-C4	6.09	114.94	111.90
33	BB	197	PRO	N-CA-CB	6.09	110.61	103.30
29	D1	2140	U	C5-C6-N1	-6.09	119.66	122.70
1	A1	1141	G	N9-C4-C5	-6.09	102.97	105.40
29	B1	576	C	N3-C4-N4	6.09	122.26	118.00
29	B1	3231	U	N3-C2-O2	-6.09	117.94	122.20
1	C1	1198	G	N9-C4-C5	6.09	107.83	105.40
31	D3	34	U	C6-N1-C2	-6.09	117.35	121.00
46	DQ	84	PRO	N-CA-CB	6.09	110.60	103.30
36	DE	255	PRO	N-CA-CB	6.08	110.60	103.30
1	A1	427	C	C6-N1-C2	6.08	122.73	120.30
29	D1	1885	U	C5-C6-N1	-6.08	119.66	122.70
29	D1	2361	A	N1-C6-N6	-6.08	114.95	118.60
50	DU	50	PRO	N-CA-CB	6.08	110.60	103.30
29	B1	26	A	C4-C5-C6	6.08	120.04	117.00
29	B1	902	G	C8-N9-C4	-6.08	103.97	106.40
29	B1	2369	G	C6-C5-N7	-6.08	126.75	130.40
29	B1	3047	U	N1-C2-O2	-6.08	118.54	122.80
29	B1	3131	U	C5-C4-O4	-6.08	122.25	125.90
32	BA	61	PRO	N-CA-CB	6.08	110.60	103.30
1	C1	1634	C	N1-C2-N3	-6.08	114.94	119.20
29	B1	712	G	C6-C5-N7	-6.08	126.75	130.40
29	B1	1324	U	C2-N1-C1'	6.08	125.00	117.70
29	B1	1851	G	C5-C6-O6	-6.08	124.95	128.60
36	DE	19	PRO	N-CA-CB	6.08	110.60	103.30
41	BJ	47	PRO	N-CA-CB	6.08	110.59	103.30
1	C1	1462	G	N9-C4-C5	-6.08	102.97	105.40
29	D1	3108	G	C6-C5-N7	6.08	134.05	130.40
29	B1	1439	U	N3-C4-C5	6.08	118.25	114.60
29	D1	954	U	C5-C4-O4	-6.08	122.25	125.90
29	B1	585	A	N9-C4-C5	6.08	108.23	105.80
54	BY	119	PRO	N-CA-CB	6.08	110.59	103.30
29	D1	2964	G	C4-C5-N7	-6.08	108.37	110.80
29	B1	38	U	C5-C6-N1	-6.07	119.66	122.70
29	B1	422	A	C2-N3-C4	6.07	113.64	110.60
29	B1	1551	C	C2-N3-C4	-6.07	116.86	119.90
29	B1	1868	G	C2-N3-C4	-6.07	108.86	111.90
29	B1	2892	A	N1-C2-N3	-6.07	126.26	129.30
29	D1	1365	G	C8-N9-C4	-6.07	103.97	106.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2892	A	C6-N1-C2	6.07	122.24	118.60
29	D1	2693	C	N3-C2-O2	-6.07	117.65	121.90
29	B1	2869	U	N3-C2-O2	-6.07	117.95	122.20
29	D1	2669	G	C4-N9-C1'	6.07	134.39	126.50
29	D1	3271	G	C3'-C2'-C1'	-6.07	96.64	101.50
33	DB	206	PRO	N-CA-CB	6.07	110.58	103.30
1	A1	459	G	C5-C6-N1	-6.07	108.47	111.50
29	B1	1005	G	C4-C5-N7	-6.07	108.37	110.80
34	DC	307	PRO	N-CA-CB	6.07	110.58	103.30
29	B1	1365	G	N3-C4-C5	-6.07	125.57	128.60
30	B2	30	G	N3-C4-C5	6.07	131.63	128.60
60	Be	22	PRO	N-CA-CB	6.07	110.58	103.30
29	D1	404	G	C4-C5-C6	6.07	122.44	118.80
29	D1	1111	U	N1-C2-O2	-6.07	118.55	122.80
29	B1	1331	U	C2-N1-C1'	-6.07	110.42	117.70
29	D1	2780	A	C6-N1-C2	-6.07	114.96	118.60
29	D1	2931	C	N1-C2-O2	-6.07	115.26	118.90
9	AH	120	PRO	N-CA-CB	6.06	110.58	103.30
29	B1	1044	U	C5-C6-N1	-6.06	119.67	122.70
1	C1	1024	U	C6-N1-C2	6.06	124.64	121.00
1	C1	1453	G	N3-C4-C5	6.06	131.63	128.60
36	DE	192	PRO	N-CA-CB	6.06	110.58	103.30
29	B1	790	U	N1-C2-O2	-6.06	118.56	122.80
29	B1	1317	A	C5-N7-C8	-6.06	100.87	103.90
29	B1	1476	G	C8-N9-C4	-6.06	103.97	106.40
29	D1	304	G	C8-N9-C1'	-6.06	119.12	127.00
46	DQ	11	PRO	N-CA-CB	6.06	110.58	103.30
47	DR	43	PRO	N-CA-CB	6.06	110.57	103.30
54	DY	83	PRO	N-CA-CB	6.06	110.58	103.30
29	B1	1865	A	C2-N3-C4	-6.06	107.57	110.60
29	B1	1902	G	C4-N9-C1'	6.06	134.38	126.50
29	B1	575	G	N9-C4-C5	6.06	107.82	105.40
9	CH	94	PRO	N-CA-CB	6.06	110.57	103.30
29	D1	32	U	C6-N1-C2	6.06	124.64	121.00
29	D1	1317	A	N3-C4-C5	6.06	131.04	126.80
29	D1	3095	U	C5-C4-O4	-6.06	122.26	125.90
29	B1	3170	A	C5-C6-N1	-6.06	114.67	117.70
38	DG	210	PRO	N-CA-CB	6.06	110.57	103.30
29	D1	387	A	C2-N3-C4	-6.06	107.57	110.60
29	B1	685	G	N1-C2-N3	6.05	127.53	123.90
29	B1	930	U	N3-C2-O2	6.05	126.44	122.20
29	B1	2559	U	N3-C2-O2	-6.05	117.96	122.20

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3227	A	C5-C6-N6	6.05	128.54	123.70
29	B1	3291	G	C6-C5-N7	-6.05	126.77	130.40
29	B1	3388	C	C2-N1-C1'	6.05	125.46	118.80
1	C1	160	C	C6-N1-C2	6.05	122.72	120.30
1	C1	869	A	N3-C4-N9	6.05	132.24	127.40
29	D1	996	A	C8-N9-C4	6.05	108.22	105.80
29	D1	1292	C	N3-C2-O2	6.05	126.14	121.90
29	D1	3088	G	C5-C6-O6	-6.05	124.97	128.60
29	D1	3192	U	C6-N1-C1'	6.05	129.68	121.20
29	B1	876	A	C8-N9-C4	6.05	108.22	105.80
29	B1	2882	U	C6-N1-C2	-6.05	117.37	121.00
29	D1	390	G	C6-C5-N7	6.05	134.03	130.40
1	A1	1497	U	C5-C4-O4	6.05	129.53	125.90
29	B1	3265	C	N3-C2-O2	-6.05	117.66	121.90
29	D1	94	G	N1-C6-O6	-6.05	116.27	119.90
29	D1	409	A	N1-C6-N6	-6.05	114.97	118.60
29	D1	529	A	C4-C5-C6	-6.05	113.97	117.00
29	D1	2914	G	C4-C5-N7	6.05	113.22	110.80
29	D1	3103	A	C5-C6-N6	-6.05	118.86	123.70
33	DB	178	PRO	N-CA-CB	6.05	110.56	103.30
1	A1	610	G	N3-C4-N9	6.05	129.63	126.00
7	AF	113	PRO	N-CA-CB	6.05	110.56	103.30
29	B1	622	A	C6-C5-N7	-6.05	128.06	132.30
29	B1	648	C	C4-C5-C6	6.05	120.42	117.40
29	B1	2992	U	N3-C2-O2	6.05	126.44	122.20
30	B2	66	A	N3-C4-C5	6.05	131.03	126.80
29	D1	751	A	C6-N1-C2	-6.05	114.97	118.60
29	D1	3224	G	N3-C2-N2	-6.05	115.67	119.90
29	D1	3324	C	C6-N1-C1'	-6.05	113.54	120.80
29	B1	677	A	C5-N7-C8	-6.05	100.88	103.90
29	B1	1457	U	N1-C2-N3	6.05	118.53	114.90
29	B1	2643	A	C5-C6-N1	-6.05	114.68	117.70
29	B1	2835	U	C6-N1-C1'	-6.05	112.73	121.20
29	B1	2585	G	N3-C4-N9	6.05	129.63	126.00
7	CF	113	PRO	N-CA-CB	6.05	110.56	103.30
29	D1	1915	A	C2-N3-C4	-6.05	107.58	110.60
29	B1	2882	U	C5-C6-N1	6.04	125.72	122.70
29	D1	1517	G	N3-C4-N9	-6.04	122.37	126.00
29	D1	1596	C	N3-C2-O2	-6.04	117.67	121.90
30	D2	8	G	C4-N9-C1'	-6.04	118.64	126.50
29	B1	3181	C	C5-C4-N4	-6.04	115.97	120.20
59	Bd	6	PRO	N-CA-CB	6.04	110.55	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1107	G	N3-C4-C5	-6.04	125.58	128.60
29	D1	137	G	N3-C4-N9	6.04	129.63	126.00
29	D1	2780	A	C5-C6-N6	-6.04	118.86	123.70
29	D1	2904	U	N1-C2-O2	6.04	127.03	122.80
29	B1	2837	A	C8-N9-C4	6.04	108.22	105.80
29	B1	3366	G	N3-C4-N9	-6.04	122.38	126.00
33	BB	210	PRO	N-CA-CB	6.04	110.55	103.30
1	C1	1453	G	C4-N9-C1'	-6.04	118.64	126.50
29	D1	1695	U	N3-C2-O2	-6.04	117.97	122.20
1	A1	338	C	N1-C2-O2	6.04	122.52	118.90
1	C1	1073	G	C6-N1-C2	-6.04	121.48	125.10
29	D1	2315	G	N3-C2-N2	-6.04	115.67	119.90
29	D1	2435	G	N1-C6-O6	6.04	123.52	119.90
29	B1	237	G	N9-C4-C5	-6.04	102.98	105.40
29	B1	3271	G	C3'-C2'-C1'	-6.04	96.67	101.50
33	BB	108	PRO	N-CA-CB	6.04	110.55	103.30
29	B1	2278	C	C2-N3-C4	6.04	122.92	119.90
29	B1	2972	G	C8-N9-C1'	-6.04	119.15	127.00
29	B1	337	G	C5-C6-N1	-6.04	108.48	111.50
29	B1	1444	G	C6-C5-N7	-6.04	126.78	130.40
29	B1	304	G	C4-N9-C1'	6.03	134.34	126.50
29	B1	345	G	C4-C5-N7	-6.03	108.39	110.80
29	D1	2714	G	N3-C4-C5	6.03	131.62	128.60
31	B3	76	C	C6-N1-C2	-6.03	117.89	120.30
29	D1	2583	C	N1-C2-O2	-6.03	115.28	118.90
32	BA	121	PRO	N-CA-CB	6.03	110.54	103.30
29	D1	48	A	C8-N9-C4	6.03	108.21	105.80
72	DL	7	PRO	N-CA-CB	6.03	110.54	103.30
1	A1	890	C	C2-N1-C1'	-6.03	112.17	118.80
29	B1	214	G	N3-C4-C5	6.03	131.62	128.60
29	B1	299	G	C4-N9-C1'	6.03	134.34	126.50
29	B1	640	U	C2-N3-C4	6.03	130.62	127.00
29	D1	164	A	N1-C6-N6	6.03	122.22	118.60
29	D1	1850	A	C8-N9-C4	6.03	108.21	105.80
29	B1	409	A	C8-N9-C4	6.03	108.21	105.80
32	BA	135	PRO	N-CA-CB	6.03	110.53	103.30
29	D1	1186	G	C4-C5-N7	6.03	113.21	110.80
29	B1	1209	G	N3-C2-N2	-6.03	115.68	119.90
29	B1	2914	G	C8-N9-C4	-6.03	103.99	106.40
29	D1	2834	G	C4-C5-C6	-6.03	115.18	118.80
29	B1	89	A	N9-C4-C5	-6.02	103.39	105.80
29	B1	2943	G	N1-C6-O6	6.02	123.52	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BD	146	PRO	N-CA-CB	6.02	110.53	103.30
3	CB	85	PRO	N-CA-CB	6.02	110.53	103.30
29	B1	2607	G	C6-C5-N7	-6.02	126.79	130.40
1	C1	1323	C	C5-C6-N1	-6.02	117.99	121.00
29	D1	2117	A	N1-C6-N6	-6.02	114.99	118.60
29	D1	3130	A	N1-C6-N6	6.02	122.21	118.60
32	DA	43	PRO	N-CA-CB	6.02	110.53	103.30
1	C1	1291	G	N1-C6-O6	6.02	123.51	119.90
29	B1	389	A	C5-C6-N1	-6.02	114.69	117.70
29	B1	899	U	N3-C4-O4	-6.02	115.19	119.40
29	B1	930	U	N1-C2-O2	-6.02	118.59	122.80
29	D1	1941	C	N3-C4-C5	6.02	124.31	121.90
30	D2	117	A	C6-N1-C2	6.02	122.21	118.60
41	DJ	16	PRO	N-CA-CB	6.02	110.52	103.30
1	A1	684	A	C6-N1-C2	-6.02	114.99	118.60
29	B1	581	U	N1-C2-O2	6.02	127.01	122.80
34	BC	63	PRO	N-CA-CB	6.02	110.52	103.30
8	AG	82	PRO	N-CA-CB	6.01	110.52	103.30
10	AI	75	PRO	N-CA-CB	6.01	110.52	103.30
29	B1	2362	C	C6-N1-C1'	6.01	128.02	120.80
1	C1	627	C	C6-N1-C2	6.01	122.71	120.30
29	D1	2919	A	C4-N9-C1'	6.01	137.12	126.30
29	D1	3141	A	N3-C4-C5	-6.01	122.59	126.80
32	DA	61	PRO	N-CA-CB	6.01	110.52	103.30
6	CE	169	PRO	N-CA-CB	6.01	110.52	103.30
29	D1	2638	C	N1-C2-O2	-6.01	115.29	118.90
29	D1	3388	C	C2-N1-C1'	6.01	125.41	118.80
1	A1	1792	G	C6-C5-N7	-6.01	126.79	130.40
29	B1	137	G	C4-C5-N7	6.01	113.20	110.80
29	B1	334	A	C2-N3-C4	6.01	113.61	110.60
29	B1	1209	G	C2-N3-C4	-6.01	108.89	111.90
29	B1	3084	C	C5-C4-N4	-6.01	115.99	120.20
1	C1	1633	A	N7-C8-N9	6.01	116.81	113.80
37	DF	153	PRO	N-CA-CB	6.01	110.51	103.30
1	C1	552	G	C5-C6-O6	-6.01	125.00	128.60
1	C1	1159	C	C6-N1-C1'	-6.01	113.59	120.80
29	D1	97	U	N3-C2-O2	6.01	126.41	122.20
30	D2	96	U	C6-N1-C2	6.01	124.61	121.00
29	B1	505	G	C4-C5-N7	-6.01	108.40	110.80
29	D1	639	G	C6-C5-N7	-6.01	126.80	130.40
29	D1	703	G	C4-N9-C1'	-6.01	118.69	126.50
29	B1	419	G	N1-C6-O6	-6.01	116.30	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	622	A	N7-C8-N9	6.01	116.80	113.80
29	B1	2693	C	C6-N1-C1'	-6.01	113.59	120.80
29	D1	2639	G	C6-C5-N7	-6.01	126.80	130.40
29	B1	151	A	C6-N1-C2	-6.00	115.00	118.60
29	B1	2134	G	C5-C6-O6	-6.00	125.00	128.60
2	CA	194	PRO	N-CA-CB	6.00	110.51	103.30
29	D1	3326	G	C8-N9-C4	-6.00	104.00	106.40
60	De	24	PRO	N-CA-CB	6.00	110.51	103.30
29	B1	590	G	C8-N9-C4	6.00	108.80	106.40
29	B1	677	A	C8-N9-C4	-6.00	103.40	105.80
37	BF	7	PRO	N-CA-CB	6.00	110.50	103.30
37	DF	7	PRO	N-CA-CB	6.00	110.50	103.30
41	DJ	27	PRO	N-CA-CB	6.00	110.50	103.30
29	B1	333	G	C8-N9-C4	-6.00	104.00	106.40
1	C1	1792	G	N3-C4-N9	6.00	129.60	126.00
29	D1	287	G	C5-C6-N1	-6.00	108.50	111.50
1	A1	1579	U	C2-N1-C1'	6.00	124.90	117.70
29	B1	2382	G	C5-C6-N1	6.00	114.50	111.50
29	D1	1191	U	C6-N1-C2	6.00	124.60	121.00
1	A1	1787	C	N3-C4-C5	6.00	124.30	121.90
29	B1	21	G	C6-C5-N7	-6.00	126.80	130.40
1	C1	1132	A	N1-C6-N6	6.00	122.20	118.60
3	CB	171	PRO	N-CA-CB	6.00	110.50	103.30
29	D1	3103	A	C8-N9-C4	-6.00	103.40	105.80
29	B1	3208	G	C2-N3-C4	6.00	114.90	111.90
29	D1	2122	G	C2-N3-C4	-6.00	108.90	111.90
52	DW	66	PRO	N-CA-CB	6.00	110.50	103.30
29	B1	1506	A	C6-C5-N7	-6.00	128.10	132.30
21	CT	267	PRO	N-CA-CB	6.00	110.49	103.30
29	D1	1209	G	N3-C2-N2	-6.00	115.70	119.90
54	DY	122	PRO	N-CA-CB	6.00	110.49	103.30
1	A1	1104	U	N3-C2-O2	5.99	126.40	122.20
29	B1	651	G	N9-C4-C5	-5.99	103.00	105.40
29	B1	2283	G	C5-N7-C8	-5.99	101.30	104.30
29	B1	2669	G	C4-N9-C1'	5.99	134.29	126.50
30	B2	8	G	C4-N9-C1'	-5.99	118.71	126.50
35	DD	146	PRO	N-CA-CB	5.99	110.49	103.30
29	B1	956	U	C6-N1-C2	5.99	124.59	121.00
39	BH	129	PRO	N-CA-CB	5.99	110.49	103.30
29	B1	746	A	C2-N3-C4	5.99	113.59	110.60
29	B1	1547	G	C6-C5-N7	-5.99	126.81	130.40
29	B1	1556	C	N3-C2-O2	-5.99	117.71	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2990	G	C5-N7-C8	-5.99	101.31	104.30
29	B1	2551	U	C5-C6-N1	5.99	125.69	122.70
29	D1	1147	G	C5-N7-C8	-5.99	101.31	104.30
29	D1	3045	G	C4-C5-N7	5.99	113.19	110.80
29	B1	757	C	N3-C4-C5	5.99	124.30	121.90
1	C1	385	A	N1-C6-N6	-5.99	115.01	118.60
1	C1	423	G	C2-N3-C4	5.99	114.89	111.90
29	B1	337	G	N1-C6-O6	5.99	123.49	119.90
29	B1	659	G	N3-C2-N2	5.99	124.09	119.90
29	B1	2633	U	N3-C4-C5	-5.99	111.01	114.60
29	D1	3013	U	N3-C2-O2	-5.99	118.01	122.20
29	D1	3018	C	N3-C4-C5	5.99	124.29	121.90
29	B1	39	A	N1-C6-N6	5.98	122.19	118.60
29	B1	2607	G	C4-C5-C6	5.98	122.39	118.80
29	B1	2776	C	C6-N1-C1'	-5.98	113.62	120.80
4	CC	192	PRO	N-CA-CB	5.98	110.48	103.30
29	D1	1152	G	C5-C6-N1	-5.98	108.51	111.50
1	C1	1202	A	N1-C6-N6	-5.98	115.01	118.60
1	C1	1568	C	C4-C5-C6	5.98	120.39	117.40
1	C1	1591	C	C5-C6-N1	-5.98	118.01	121.00
29	D1	3245	A	C4-C5-N7	5.98	113.69	110.70
29	D1	3223	A	C5-C6-N1	-5.98	114.71	117.70
29	B1	86	G	C8-N9-C1'	5.98	134.77	127.00
29	D1	424	G	N7-C8-N9	5.98	116.09	113.10
29	D1	2292	U	C5-C4-O4	-5.98	122.31	125.90
29	D1	2707	C	N1-C2-O2	-5.98	115.31	118.90
1	A1	63	G	C5-N7-C8	5.98	107.29	104.30
29	B1	2183	A	N9-C4-C5	5.98	108.19	105.80
1	C1	1725	U	C5-C4-O4	-5.98	122.31	125.90
29	D1	2324	A	C2-N3-C4	5.98	113.59	110.60
37	DF	11	PRO	N-CA-CB	5.98	110.47	103.30
29	B1	32	U	N3-C4-C5	5.97	118.18	114.60
29	B1	685	G	C6-C5-N7	-5.97	126.82	130.40
8	CG	85	PRO	N-CA-CB	5.97	110.47	103.30
29	D1	2187	G	N1-C6-O6	-5.97	116.31	119.90
29	D1	2671	A	N1-C6-N6	5.97	122.19	118.60
29	D1	2851	A	N9-C4-C5	5.97	108.19	105.80
29	B1	2651	G	C8-N9-C4	5.97	108.79	106.40
29	D1	549	U	N1-C2-O2	5.97	126.98	122.80
29	D1	1097	G	N1-C6-O6	-5.97	116.32	119.90
29	D1	1368	U	C6-N1-C1'	-5.97	112.84	121.20
45	DP	111	PRO	N-CA-CB	5.97	110.47	103.30

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	390	G	C6-C5-N7	5.97	133.98	130.40
29	B1	946	U	C6-N1-C1'	-5.97	112.84	121.20
1	C1	565	C	C5-C6-N1	-5.97	118.01	121.00
1	C1	1291	G	C4-C5-N7	5.97	113.19	110.80
29	D1	2700	G	N3-C4-N9	5.97	129.58	126.00
29	D1	2993	G	C6-C5-N7	5.97	133.98	130.40
29	B1	2823	G	N3-C4-N9	-5.97	122.42	126.00
29	D1	2981	U	C5-C4-O4	-5.97	122.32	125.90
29	B1	789	A	N9-C4-C5	5.97	108.19	105.80
29	D1	1174	G	C6-N1-C2	-5.97	121.52	125.10
1	A1	590	C	C6-N1-C2	-5.97	117.91	120.30
3	AB	182	PRO	N-CA-CB	5.97	110.46	103.30
29	B1	3059	G	C5-C6-O6	-5.97	125.02	128.60
1	C1	1408	G	N3-C4-N9	5.97	129.58	126.00
15	AN	71	PRO	N-CA-CB	5.96	110.46	103.30
29	B1	2951	G	N3-C4-C5	5.96	131.58	128.60
34	BC	40	PRO	N-CA-CB	5.96	110.46	103.30
34	DC	40	PRO	N-CA-CB	5.96	110.46	103.30
39	DH	129	PRO	N-CA-CB	5.96	110.46	103.30
29	B1	3377	G	N7-C8-N9	5.96	116.08	113.10
1	C1	59	C	C6-N1-C2	-5.96	117.92	120.30
1	C1	479	C	C5-C6-N1	-5.96	118.02	121.00
29	B1	1113	G	C4-N9-C1'	5.96	134.25	126.50
29	D1	2895	G	C4-C5-N7	-5.96	108.42	110.80
29	B1	669	U	C5-C4-O4	-5.96	122.33	125.90
29	B1	1294	A	C8-N9-C4	-5.96	103.42	105.80
1	C1	621	A	C5-C6-N1	5.96	120.68	117.70
45	DP	110	PRO	N-CA-CB	5.96	110.45	103.30
17	AP	118	PRO	N-CA-CB	5.96	110.45	103.30
29	B1	500	C	N3-C2-O2	-5.96	117.73	121.90
29	B1	1428	A	C8-N9-C4	5.96	108.18	105.80
29	B1	1716	U	N3-C2-O2	-5.96	118.03	122.20
30	B2	47	C	C5-C6-N1	5.96	123.98	121.00
36	BE	255	PRO	N-CA-CB	5.96	110.45	103.30
29	D1	3139	A	N1-C6-N6	-5.96	115.03	118.60
54	DY	45	MET	N-CA-C	5.96	127.08	111.00
29	D1	794	U	N3-C2-O2	5.96	126.37	122.20
34	DC	63	PRO	N-CA-CB	5.96	110.45	103.30
1	A1	1149	G	C5-C6-N1	5.95	114.48	111.50
29	B1	22	G	N1-C6-O6	-5.95	116.33	119.90
29	B1	2527	G	C4-N9-C1'	-5.95	118.76	126.50
29	B1	2935	U	C5-C6-N1	-5.95	119.72	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	222	A	N1-C6-N6	5.95	122.17	118.60
29	D1	517	G	C8-N9-C4	-5.95	104.02	106.40
29	D1	2881	C	N3-C2-O2	5.95	126.07	121.90
29	D1	3272	C	C2-N3-C4	5.95	122.88	119.90
30	D2	19	C	C6-N1-C1'	-5.95	113.66	120.80
29	B1	956	U	C5-C6-N1	-5.95	119.72	122.70
1	A1	1073	G	C5-C6-O6	-5.95	125.03	128.60
3	AB	138	PRO	N-CA-CB	5.95	110.44	103.30
29	B1	3243	A	N9-C4-C5	-5.95	103.42	105.80
29	D1	617	G	C6-N1-C2	-5.95	121.53	125.10
29	D1	2669	G	C5-C6-O6	-5.95	125.03	128.60
29	B1	1324	U	C5-C4-O4	-5.95	122.33	125.90
29	B1	3108	G	C8-N9-C1'	5.95	134.73	127.00
30	B2	112	G	C6-C5-N7	5.95	133.97	130.40
29	D1	633	C	N1-C2-O2	-5.95	115.33	118.90
29	D1	1004	U	C6-N1-C2	-5.95	117.43	121.00
29	D1	3245	A	C6-C5-N7	-5.95	128.14	132.30
32	DA	126	PRO	N-CA-CB	5.95	110.44	103.30
29	B1	2700	G	C6-C5-N7	-5.95	126.83	130.40
29	D1	1434	G	C4-C5-N7	5.95	113.18	110.80
29	B1	1207	G	C4-C5-N7	5.95	113.18	110.80
29	B1	2327	U	C2-N3-C4	-5.95	123.43	127.00
16	CO	77	PRO	N-CA-CB	5.95	110.43	103.30
10	AI	53	PRO	N-CA-CB	5.94	110.43	103.30
29	D1	1487	G	N3-C4-N9	5.94	129.57	126.00
29	D1	3369	G	C5-C6-O6	5.94	132.17	128.60
18	AQ	55	PRO	N-CA-CB	5.94	110.43	103.30
1	C1	16	G	C8-N9-C4	5.94	108.78	106.40
1	C1	86	A	C6-N1-C2	5.94	122.17	118.60
3	CB	173	PRO	N-CA-CB	5.94	110.43	103.30
29	D1	3211	C	N3-C4-C5	5.94	124.28	121.90
29	D1	3322	A	N3-C4-C5	5.94	130.96	126.80
30	D2	65	G	C8-N9-C4	-5.94	104.02	106.40
16	AO	77	PRO	N-CA-CB	5.94	110.43	103.30
29	B1	2837	A	N7-C8-N9	-5.94	110.83	113.80
1	C1	1658	G	C8-N9-C4	5.94	108.78	106.40
29	D1	624	G	C4-C5-N7	5.94	113.18	110.80
29	D1	2278	C	C2-N3-C4	5.94	122.87	119.90
29	D1	3314	A	C4-N9-C1'	5.94	136.99	126.30
2	AA	118	PRO	N-CA-CB	5.94	110.43	103.30
29	B1	286	U	N3-C2-O2	-5.94	118.04	122.20
29	B1	1124	U	C2-N1-C1'	5.94	124.83	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1618	G	N1-C6-O6	-5.94	116.34	119.90
29	B1	1133	A	N9-C4-C5	5.94	108.17	105.80
29	B1	1342	C	C5-C4-N4	-5.94	116.04	120.20
29	B1	2738	A	C8-N9-C4	5.94	108.17	105.80
29	B1	3273	A	N1-C2-N3	-5.94	126.33	129.30
8	CG	47	PRO	N-CA-CB	5.94	110.42	103.30
29	D1	429	U	N1-C2-N3	5.94	118.46	114.90
29	D1	1362	G	N7-C8-N9	-5.94	110.13	113.10
29	D1	96	G	C2-N3-C4	-5.94	108.93	111.90
29	D1	1589	A	C6-C5-N7	-5.94	128.14	132.30
29	B1	424	G	N1-C6-O6	5.93	123.46	119.90
29	B1	1138	U	C5-C4-O4	-5.93	122.34	125.90
29	B1	2421	U	C2-N1-C1'	-5.93	110.58	117.70
10	CI	75	PRO	N-CA-CB	5.93	110.42	103.30
61	Df	56	PRO	N-CA-CB	5.93	110.42	103.30
29	B1	587	U	C6-N1-C2	5.93	124.56	121.00
29	B1	3130	A	C4-C5-N7	5.93	113.67	110.70
29	D1	1720	U	C5-C6-N1	5.93	125.67	122.70
30	D2	65	G	C5-C6-O6	-5.93	125.04	128.60
29	B1	304	G	C4-C5-N7	5.93	113.17	110.80
29	B1	3303	G	C5-N7-C8	5.93	107.27	104.30
16	CO	29	PRO	N-CA-CB	5.93	110.42	103.30
29	D1	364	G	C4-N9-C1'	5.93	134.21	126.50
29	D1	1919	G	C6-C5-N7	-5.93	126.84	130.40
29	D1	2639	G	C4-C5-N7	5.93	113.17	110.80
37	DF	36	PRO	N-CA-CB	5.93	110.42	103.30
1	A1	429	G	C8-N9-C4	-5.93	104.03	106.40
29	B1	812	G	N1-C6-O6	5.93	123.46	119.90
29	B1	3297	U	C6-N1-C1'	-5.93	112.90	121.20
30	D2	101	G	C4-N9-C1'	-5.93	118.79	126.50
35	DD	21	PRO	N-CA-CB	5.93	110.42	103.30
35	DD	23	PRO	N-CA-CB	5.93	110.42	103.30
29	B1	70	A	N3-C4-C5	-5.93	122.65	126.80
29	B1	2868	U	N3-C2-O2	5.93	126.35	122.20
29	B1	3280	U	C2-N3-C4	5.93	130.56	127.00
33	BB	57	PRO	N-CA-CB	5.93	110.41	103.30
1	C1	24	U	C2-N1-C1'	5.93	124.81	117.70
29	D1	3185	U	N3-C4-O4	-5.93	115.25	119.40
2	AA	194	PRO	N-CA-CB	5.93	110.41	103.30
8	AG	136	PRO	N-CA-CB	5.93	110.41	103.30
21	AT	206	PRO	N-CA-CB	5.93	110.41	103.30
29	B1	354	U	C5-C4-O4	-5.93	122.34	125.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	432	G	C5-C6-N1	-5.93	108.54	111.50
29	B1	1050	U	N1-C2-O2	-5.93	118.65	122.80
29	D1	3374	U	C6-N1-C2	5.93	124.56	121.00
30	D2	119	U	N3-C2-O2	-5.93	118.05	122.20
32	DA	137	PRO	N-CA-CB	5.93	110.41	103.30
1	A1	1028	C	N3-C4-C5	5.92	124.27	121.90
29	B1	302	U	C5-C6-N1	-5.92	119.74	122.70
29	B1	970	A	N9-C4-C5	-5.92	103.43	105.80
32	BA	126	PRO	N-CA-CB	5.92	110.41	103.30
2	CA	68	PRO	N-CA-CB	5.92	110.41	103.30
30	D2	51	A	C8-N9-C4	-5.92	103.43	105.80
33	DB	57	PRO	N-CA-CB	5.92	110.41	103.30
29	B1	419	G	C8-N9-C4	5.92	108.77	106.40
29	D1	659	G	C4-N9-C1'	5.92	134.20	126.50
29	D1	3181	C	C5-C4-N4	-5.92	116.05	120.20
29	B1	511	G	N1-C6-O6	5.92	123.45	119.90
29	B1	3386	G	C8-N9-C1'	-5.92	119.30	127.00
29	D1	2390	A	C8-N9-C4	-5.92	103.43	105.80
29	D1	3078	U	C6-N1-C1'	-5.92	112.91	121.20
29	B1	1720	U	C5-C6-N1	5.92	125.66	122.70
29	B1	2194	G	C8-N9-C4	5.92	108.77	106.40
32	BA	43	PRO	N-CA-CB	5.92	110.40	103.30
29	D1	1287	A	C8-N9-C4	5.92	108.17	105.80
1	A1	1378	U	C5-C6-N1	5.92	125.66	122.70
1	A1	1637	C	N1-C2-O2	5.92	122.45	118.90
29	D1	41	G	N3-C4-C5	5.92	131.56	128.60
29	D1	2681	U	N1-C2-O2	5.92	126.94	122.80
29	D1	3207	U	N3-C2-O2	-5.92	118.06	122.20
29	D1	3227	A	N1-C2-N3	-5.92	126.34	129.30
41	DJ	214	PRO	N-CA-CB	5.92	110.40	103.30
1	A1	874	C	N1-C2-O2	5.92	122.45	118.90
1	A1	1137	A	C8-N9-C4	5.92	108.17	105.80
5	AD	67	PRO	N-CA-CB	5.92	110.40	103.30
29	B1	137	G	N9-C4-C5	-5.92	103.03	105.40
29	D1	3303	G	N1-C6-O6	-5.92	116.35	119.90
29	B1	677	A	C6-C5-N7	-5.92	128.16	132.30
29	B1	3144	G	C8-N9-C4	-5.92	104.03	106.40
56	Ba	88	PRO	N-CA-CB	5.92	110.40	103.30
29	D1	3123	A	C8-N9-C4	-5.92	103.43	105.80
1	A1	1353	U	N3-C2-O2	-5.91	118.06	122.20
1	A1	1520	U	N1-C2-O2	-5.91	118.66	122.80
29	B1	1951	C	N1-C2-O2	5.91	122.45	118.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3273	A	C5-C6-N6	-5.91	118.97	123.70
9	CH	57	PRO	N-CA-CB	5.91	110.40	103.30
29	D1	1363	A	N7-C8-N9	-5.91	110.84	113.80
29	D1	3078	U	N1-C2-O2	5.91	126.94	122.80
29	B1	1403	C	C6-N1-C2	5.91	122.67	120.30
29	D1	1902	G	N3-C4-N9	5.91	129.55	126.00
29	B1	187	A	C8-N9-C4	-5.91	103.44	105.80
29	B1	659	G	C6-C5-N7	-5.91	126.85	130.40
29	B1	1434	G	C6-N1-C2	5.91	128.65	125.10
29	B1	2196	C	C6-N1-C2	-5.91	117.94	120.30
29	B1	2671	A	C6-N1-C2	-5.91	115.05	118.60
1	A1	1135	U	N3-C2-O2	5.91	126.33	122.20
29	B1	94	G	C4-N9-C1'	-5.91	118.82	126.50
29	B1	2663	G	C8-N9-C4	5.91	108.76	106.40
30	B2	93	C	C5-C4-N4	-5.91	116.06	120.20
1	C1	1291	G	C5-C6-O6	-5.91	125.06	128.60
29	D1	511	G	N3-C4-N9	-5.91	122.45	126.00
29	D1	1292	C	N1-C2-O2	-5.91	115.36	118.90
29	B1	2527	G	N3-C4-C5	5.91	131.55	128.60
29	D1	2355	G	N3-C4-C5	-5.91	125.65	128.60
1	C1	902	G	C5-C6-N1	-5.91	108.55	111.50
1	C1	1121	C	N1-C2-O2	-5.91	115.36	118.90
2	CA	97	PRO	N-CA-CB	5.91	110.39	103.30
29	D1	52	A	C8-N9-C1'	-5.91	117.07	127.70
29	D1	424	G	C5-N7-C8	-5.91	101.35	104.30
29	D1	946	U	C2-N1-C1'	5.91	124.79	117.70
30	D2	65	G	N3-C4-C5	-5.91	125.65	128.60
57	Db	7	PRO	N-CA-CB	5.91	110.39	103.30
1	A1	572	C	C2-N3-C4	5.90	122.85	119.90
29	B1	932	U	N1-C2-O2	-5.90	118.67	122.80
44	BO	42	PRO	N-CA-CB	5.90	110.38	103.30
61	Bf	56	PRO	N-CA-CB	5.90	110.38	103.30
1	C1	1198	G	N1-C6-O6	-5.90	116.36	119.90
29	D1	1062	A	C8-N9-C4	5.90	108.16	105.80
29	D1	1892	G	N1-C2-N3	5.90	127.44	123.90
29	D1	3099	C	C6-N1-C2	5.90	122.66	120.30
1	A1	100	A	N1-C6-N6	-5.90	115.06	118.60
29	B1	1547	G	N1-C2-N2	-5.90	110.89	116.20
50	BU	105	PRO	N-CA-CB	5.90	110.38	103.30
29	D1	434	U	C5-C6-N1	-5.90	119.75	122.70
29	D1	2669	G	C8-N9-C1'	-5.90	119.33	127.00
29	D1	2756	C	N3-C4-C5	5.90	124.26	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2989	U	N1-C2-O2	-5.90	118.67	122.80
29	B1	743	C	N3-C4-C5	5.90	124.26	121.90
29	B1	1452	A	N1-C6-N6	5.90	122.14	118.60
1	C1	1520	U	N3-C2-O2	5.90	126.33	122.20
1	C1	1549	C	N1-C2-O2	-5.90	115.36	118.90
1	A1	1615	C	C6-N1-C2	-5.90	117.94	120.30
29	B1	984	G	C8-N9-C1'	5.90	134.67	127.00
29	B1	2302	G	C5-C6-N1	5.90	114.45	111.50
29	B1	2669	G	N3-C4-N9	5.90	129.54	126.00
31	B3	53	A	N1-C2-N3	-5.90	126.35	129.30
60	Be	24	PRO	N-CA-CB	5.90	110.38	103.30
1	C1	1421	A	C2-N3-C4	5.90	113.55	110.60
29	D1	1172	G	N7-C8-N9	-5.90	110.15	113.10
29	D1	2700	G	C8-N9-C1'	-5.90	119.33	127.00
29	B1	3054	U	C5-C4-O4	5.90	129.44	125.90
29	B1	3224	G	N3-C2-N2	-5.90	115.77	119.90
29	D1	409	A	C8-N9-C4	5.90	108.16	105.80
29	D1	575	G	C6-C5-N7	5.90	133.94	130.40
35	DD	29	PRO	N-CA-CB	5.90	110.38	103.30
29	B1	503	C	C2-N1-C1'	-5.89	112.32	118.80
29	B1	810	A	C4-C5-N7	5.89	113.65	110.70
29	B1	954	U	C5-C4-O4	-5.89	122.36	125.90
29	B1	1076	C	N3-C2-O2	-5.89	117.77	121.90
29	B1	1377	G	C5-C6-O6	5.89	132.14	128.60
29	B1	2605	G	C5-C6-O6	-5.89	125.06	128.60
29	B1	3035	A	N1-C2-N3	5.89	132.25	129.30
1	C1	1470	C	C2-N1-C1'	5.89	125.28	118.80
10	CI	53	PRO	N-CA-CB	5.89	110.37	103.30
29	D1	978	G	N3-C4-C5	-5.89	125.65	128.60
29	D1	3170	A	C5-C6-N6	5.89	128.42	123.70
1	A1	1759	C	C6-N1-C2	5.89	122.66	120.30
9	AH	57	PRO	N-CA-CB	5.89	110.37	103.30
29	B1	164	A	N1-C6-N6	5.89	122.14	118.60
29	D1	2415	C	N3-C4-C5	5.89	124.26	121.90
29	D1	2886	U	C5-C6-N1	-5.89	119.75	122.70
72	DL	89	PRO	N-CA-CB	5.89	110.37	103.30
50	DU	117	PRO	N-CA-CB	5.89	110.37	103.30
29	B1	834	U	N1-C2-O2	5.89	126.92	122.80
1	C1	16	G	N1-C2-N2	-5.89	110.90	116.20
29	D1	625	G	N3-C4-C5	5.89	131.55	128.60
29	D1	1469	C	N3-C2-O2	-5.89	117.78	121.90
29	B1	2377	G	N3-C4-C5	5.89	131.54	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3099	C	C2-N3-C4	5.89	122.84	119.90
29	B1	3198	U	N1-C2-O2	5.89	126.92	122.80
29	D1	1120	A	N1-C2-N3	5.89	132.25	129.30
29	D1	2556	C	C6-N1-C2	-5.89	117.94	120.30
29	D1	3139	A	C6-C5-N7	5.89	136.42	132.30
29	B1	203	G	N1-C6-O6	-5.89	116.37	119.90
29	B1	1005	G	N3-C4-N9	-5.89	122.47	126.00
29	B1	1123	U	C2-N1-C1'	-5.89	110.63	117.70
13	CL	82	PRO	N-CA-CB	5.89	110.36	103.30
29	D1	1227	C	C5-C6-N1	5.89	123.94	121.00
29	D1	1781	C	C5-C4-N4	-5.89	116.08	120.20
1	A1	614	C	C6-N1-C1'	-5.89	113.74	120.80
29	B1	510	G	C5-C6-O6	-5.89	125.07	128.60
29	B1	1197	A	N9-C4-C5	-5.89	103.44	105.80
29	B1	1888	U	C5-C6-N1	-5.89	119.76	122.70
29	B1	2701	U	N3-C4-O4	5.89	123.52	119.40
29	B1	2943	G	C4-C5-N7	5.89	113.16	110.80
32	BA	137	PRO	N-CA-CB	5.89	110.36	103.30
29	D1	2552	C	N3-C2-O2	-5.89	117.78	121.90
1	A1	1498	G	C5-C6-N1	5.88	114.44	111.50
29	B1	120	G	C8-N9-C1'	5.88	134.65	127.00
29	B1	271	C	C6-N1-C2	-5.88	117.95	120.30
29	B1	868	C	N1-C2-O2	-5.88	115.37	118.90
29	B1	2867	C	N3-C2-O2	5.88	126.02	121.90
1	C1	1647	U	N1-C2-N3	-5.88	111.37	114.90
29	D1	1191	U	C4-C5-C6	-5.88	116.17	119.70
29	D1	2527	G	C8-N9-C1'	5.88	134.65	127.00
29	D1	3268	A	C4-N9-C1'	-5.88	115.71	126.30
1	A1	950	C	C6-N1-C2	5.88	122.65	120.30
29	B1	92	G	N7-C8-N9	5.88	116.04	113.10
29	B1	301	G	C5-C6-O6	5.88	132.13	128.60
1	C1	49	C	C6-N1-C2	5.88	122.65	120.30
1	A1	329	G	C2-N3-C4	-5.88	108.96	111.90
2	AA	42	PRO	N-CA-CB	5.88	110.36	103.30
29	B1	726	G	C6-C5-N7	-5.88	126.87	130.40
40	BI	13	PRO	N-CA-CB	5.88	110.36	103.30
29	D1	2353	G	C6-C5-N7	-5.88	126.87	130.40
1	A1	161	U	C5-C6-N1	-5.88	119.76	122.70
1	A1	1033	C	C2-N1-C1'	-5.88	112.33	118.80
1	A1	1529	C	C6-N1-C2	5.88	122.65	120.30
29	B1	1792	C	N3-C2-O2	5.88	126.02	121.90
29	B1	2355	G	C4-N9-C1'	5.88	134.14	126.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2358	A	N3-C4-C5	5.88	130.91	126.80
29	B1	2415	C	N3-C4-C5	5.88	124.25	121.90
1	A1	958	U	C5-C4-O4	-5.88	122.37	125.90
2	AA	11	PRO	N-CA-CB	5.88	110.35	103.30
29	B1	220	G	C8-N9-C4	5.88	108.75	106.40
29	B1	3199	G	N3-C4-N9	-5.88	122.47	126.00
29	B1	3314	A	C4-N9-C1'	5.88	136.88	126.30
29	D1	55	G	N1-C6-O6	5.88	123.43	119.90
29	D1	2911	A	C2-N3-C4	-5.88	107.66	110.60
29	D1	3265	C	C2-N1-C1'	5.88	125.26	118.80
45	DP	70	PRO	N-CA-CB	5.88	110.35	103.30
29	B1	2982	A	C4-C5-C6	-5.88	114.06	117.00
1	C1	867	G	N1-C6-O6	-5.88	116.38	119.90
29	D1	2341	A	C8-N9-C4	5.88	108.15	105.80
1	A1	388	G	C8-N9-C4	-5.87	104.05	106.40
29	B1	1751	G	C2-N3-C4	5.87	114.84	111.90
51	BV	15	PRO	N-CA-CB	5.87	110.35	103.30
29	D1	501	A	N1-C2-N3	-5.87	126.36	129.30
29	D1	651	G	C5-C6-O6	-5.87	125.08	128.60
29	D1	746	A	N3-C4-N9	5.87	132.10	127.40
29	D1	1855	U	C2-N1-C1'	5.87	124.75	117.70
29	B1	1367	G	C2-N3-C4	-5.87	108.96	111.90
29	B1	2315	G	N3-C2-N2	-5.87	115.79	119.90
29	D1	94	G	C2-N3-C4	-5.87	108.97	111.90
29	D1	2283	G	C8-N9-C4	-5.87	104.05	106.40
21	AT	287	PRO	N-CA-CB	5.87	110.34	103.30
29	D1	1330	A	N1-C2-N3	5.87	132.24	129.30
2	AA	97	PRO	N-CA-CB	5.87	110.34	103.30
29	B1	958	C	C2-N1-C1'	5.87	125.26	118.80
29	B1	1377	G	N3-C4-C5	-5.87	125.67	128.60
29	B1	2752	U	N3-C2-O2	-5.87	118.09	122.20
29	B1	586	C	N3-C4-N4	5.87	122.11	118.00
29	B1	1405	U	N1-C2-O2	-5.87	118.69	122.80
29	B1	1938	U	C5-C4-O4	5.87	129.42	125.90
1	C1	481	A	C5-C6-N6	5.87	128.39	123.70
1	C1	686	C	N1-C2-O2	-5.87	115.38	118.90
29	D1	594	U	C6-N1-C1'	-5.87	112.99	121.20
29	D1	3235	C	N3-C4-C5	5.87	124.25	121.90
21	CT	287	PRO	N-CA-CB	5.86	110.34	103.30
29	D1	1194	G	N3-C4-C5	-5.86	125.67	128.60
29	D1	3139	A	C5-C6-N6	5.86	128.39	123.70
1	A1	1188	G	C5-C6-O6	-5.86	125.08	128.60

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1479	U	C2-N3-C4	-5.86	123.48	127.00
29	D1	3252	G	N1-C6-O6	-5.86	116.38	119.90
29	B1	29	C	C6-N1-C2	5.86	122.64	120.30
29	B1	2390	A	N9-C4-C5	5.86	108.14	105.80
29	B1	2436	U	C5-C4-O4	-5.86	122.38	125.90
29	D1	1303	A	N3-C4-N9	-5.86	122.71	127.40
1	A1	1138	A	N1-C6-N6	-5.86	115.08	118.60
29	B1	1501	U	C6-N1-C2	5.86	124.52	121.00
42	BK	74	PRO	N-CA-CB	5.86	110.33	103.30
29	D1	424	G	C8-N9-C4	-5.86	104.06	106.40
29	B1	742	G	N3-C4-C5	5.86	131.53	128.60
29	B1	1507	G	C5-N7-C8	-5.86	101.37	104.30
29	B1	2131	A	C8-N9-C4	-5.86	103.46	105.80
29	B1	2725	U	C5-C6-N1	5.86	125.63	122.70
29	B1	2811	A	C5-C6-N6	5.86	128.39	123.70
29	D1	969	C	C5-C6-N1	-5.86	118.07	121.00
29	D1	1487	G	N3-C4-C5	-5.86	125.67	128.60
29	D1	2935	U	C4-C5-C6	5.86	123.21	119.70
29	B1	1322	U	N1-C2-O2	-5.86	118.70	122.80
29	B1	2356	A	C8-N9-C4	-5.86	103.46	105.80
29	B1	2707	C	N3-C2-O2	5.86	126.00	121.90
29	B1	3077	A	N7-C8-N9	5.86	116.73	113.80
21	CT	276	PRO	N-CA-CB	5.86	110.33	103.30
29	D1	367	A	C8-N9-C4	5.86	108.14	105.80
29	B1	1931	U	C2-N1-C1'	5.85	124.72	117.70
29	D1	1903	U	N3-C4-O4	5.85	123.50	119.40
1	A1	337	G	N9-C4-C5	-5.85	103.06	105.40
29	B1	512	U	C2-N1-C1'	5.85	124.72	117.70
29	B1	609	G	C5-C6-N1	-5.85	108.57	111.50
29	B1	934	G	N3-C4-C5	-5.85	125.67	128.60
32	BA	59	PRO	N-CA-CB	5.85	110.32	103.30
29	D1	556	U	N3-C2-O2	-5.85	118.10	122.20
54	DY	29	PRO	N-CA-CB	5.85	110.32	103.30
1	A1	402	C	C3'-C2'-C1'	-5.85	96.82	101.50
29	B1	3129	A	N1-C2-N3	-5.85	126.37	129.30
30	B2	85	G	N3-C4-C5	5.85	131.53	128.60
1	C1	1595	U	C5-C6-N1	5.85	125.62	122.70
29	D1	497	C	C2-N3-C4	-5.85	116.97	119.90
29	D1	3089	C	N3-C4-N4	5.85	122.09	118.00
29	D1	3297	U	N1-C2-N3	5.85	118.41	114.90
1	A1	625	C	C2-N1-C1'	5.85	125.23	118.80
29	B1	2780	A	N1-C6-N6	5.85	122.11	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	BI	98	PRO	N-CA-CB	5.85	110.32	103.30
40	BI	175	PHE	N-CA-C	-5.85	95.21	111.00
55	BZ	49	PRO	N-CA-CB	5.85	110.32	103.30
29	B1	752	C	C5-C4-N4	-5.85	116.11	120.20
29	B1	3227	A	N3-C4-C5	5.85	130.89	126.80
21	AT	267	PRO	N-CA-CB	5.84	110.31	103.30
10	CI	87	PRO	N-CA-CB	5.84	110.31	103.30
29	D1	421	G	C6-C5-N7	-5.84	126.89	130.40
29	D1	655	C	C5-C6-N1	-5.84	118.08	121.00
29	B1	1134	G	C4-C5-N7	-5.84	108.46	110.80
29	B1	1551	C	C5-C6-N1	-5.84	118.08	121.00
1	C1	1636	C	C2-N3-C4	-5.84	116.98	119.90
1	A1	1547	A	C4-C5-C6	-5.84	114.08	117.00
29	B1	1233	G	C4-N9-C1'	-5.84	118.91	126.50
29	B1	1898	G	N1-C2-N3	5.84	127.41	123.90
29	B1	1100	U	C6-N1-C2	5.84	124.50	121.00
29	B1	1788	C	C6-N1-C1'	-5.84	113.79	120.80
29	B1	2123	G	N1-C6-O6	-5.84	116.40	119.90
29	B1	3037	U	C5-C6-N1	-5.84	119.78	122.70
29	B1	3099	C	C6-N1-C1'	-5.84	113.79	120.80
29	B1	3215	A	N7-C8-N9	5.84	116.72	113.80
29	B1	3323	A	C5-C6-N1	-5.84	114.78	117.70
29	D1	2289	U	C6-N1-C2	5.84	124.50	121.00
29	D1	2865	U	N1-C2-O2	-5.84	118.71	122.80
29	B1	577	C	C2-N3-C4	5.84	122.82	119.90
29	B1	1134	G	N9-C4-C5	5.84	107.73	105.40
29	B1	2362	C	N3-C4-C5	-5.84	119.57	121.90
29	B1	2930	A	C5-C6-N6	-5.84	119.03	123.70
29	D1	149	U	C2-N1-C1'	5.84	124.70	117.70
29	D1	352	A	N7-C8-N9	-5.84	110.88	113.80
29	D1	2355	G	C6-C5-N7	-5.84	126.90	130.40
41	DJ	179	PRO	N-CA-CB	5.84	110.30	103.30
37	BF	36	PRO	N-CA-CB	5.83	110.30	103.30
29	D1	120	G	C4-N9-C1'	-5.83	118.92	126.50
29	B1	26	A	N9-C4-C5	5.83	108.13	105.80
29	B1	222	A	N9-C4-C5	-5.83	103.47	105.80
29	B1	608	A	C4-C5-N7	5.83	113.62	110.70
31	B3	34	U	N1-C2-N3	5.83	118.40	114.90
32	DA	212	PRO	N-CA-CB	5.83	110.30	103.30
29	B1	787	G	C8-N9-C4	-5.83	104.07	106.40
29	B1	3170	A	C5-C6-N6	5.83	128.37	123.70
39	DH	127	PRO	N-CA-CB	5.83	110.30	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	714	G	C4-C5-N7	5.83	113.13	110.80
1	C1	332	U	N1-C2-N3	5.83	118.40	114.90
29	D1	640	U	N3-C2-O2	5.83	126.28	122.20
29	B1	1177	G	C5-C6-O6	-5.83	125.10	128.60
29	B1	1314	C	N1-C2-O2	5.83	122.40	118.90
29	B1	1772	U	C2-N1-C1'	-5.83	110.71	117.70
32	BA	212	PRO	N-CA-CB	5.83	110.30	103.30
29	D1	2693	C	C2-N1-C1'	5.83	125.21	118.80
29	D1	2918	G	N3-C4-C5	-5.83	125.69	128.60
29	D1	3197	G	C8-N9-C4	5.83	108.73	106.40
29	B1	3307	A	N1-C6-N6	5.83	122.10	118.60
2	AA	4	PRO	N-CA-CB	5.83	110.29	103.30
5	AD	142	PRO	N-CA-CB	5.83	110.29	103.30
29	B1	354	U	C2-N1-C1'	5.83	124.69	117.70
29	B1	860	G	C6-C5-N7	-5.83	126.91	130.40
29	B1	1868	G	C5-C6-N1	-5.83	108.59	111.50
29	B1	2355	G	C4-C5-C6	5.83	122.30	118.80
29	D1	70	A	C8-N9-C4	-5.83	103.47	105.80
29	D1	584	G	C8-N9-C4	5.83	108.73	106.40
29	D1	2935	U	C2-N1-C1'	-5.83	110.71	117.70
29	B1	800	G	C8-N9-C4	5.82	108.73	106.40
29	B1	1296	C	N1-C2-O2	-5.82	115.41	118.90
31	B3	108	C	C6-N1-C2	5.82	122.63	120.30
35	BD	29	PRO	N-CA-CB	5.82	110.29	103.30
29	D1	146	U	C2-N1-C1'	5.82	124.69	117.70
29	D1	3052	G	N3-C2-N2	5.82	123.98	119.90
5	CD	142	PRO	N-CA-CB	5.82	110.29	103.30
29	D1	1064	A	C2-N3-C4	5.82	113.51	110.60
29	B1	299	G	C5-C6-N1	-5.82	108.59	111.50
29	B1	676	G	C4-C5-C6	5.82	122.29	118.80
29	B1	2935	U	C4-C5-C6	5.82	123.19	119.70
29	B1	3078	U	N1-C2-N3	-5.82	111.41	114.90
54	BY	71	PRO	N-CA-CB	5.82	110.28	103.30
1	C1	58	U	C5-C6-N1	5.82	125.61	122.70
3	CB	236	PRO	N-CA-CB	5.82	110.29	103.30
29	D1	594	U	N3-C4-C5	5.82	118.09	114.60
29	D1	3220	G	N3-C4-N9	5.82	129.49	126.00
29	B1	1196	C	C4-C5-C6	5.82	120.31	117.40
29	B1	3224	G	C4-C5-N7	-5.82	108.47	110.80
29	B1	3380	U	C2-N1-C1'	-5.82	110.72	117.70
29	B1	137	G	N3-C4-N9	5.82	129.49	126.00
29	B1	2669	G	C8-N9-C1'	-5.82	119.44	127.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B2	66	A	N3-C4-N9	-5.82	122.75	127.40
29	D1	3194	C	N1-C2-O2	-5.82	115.41	118.90
40	DI	175	PHE	N-CA-C	-5.82	95.29	111.00
1	A1	1639	C	N1-C2-N3	-5.82	115.13	119.20
31	B3	14	C	N1-C2-O2	-5.82	115.41	118.90
29	D1	2854	U	N3-C2-O2	-5.82	118.13	122.20
29	B1	1111	U	C5-C6-N1	-5.81	119.79	122.70
29	D1	1091	A	C6-N1-C2	-5.81	115.11	118.60
29	D1	3272	C	C5-C4-N4	-5.81	116.13	120.20
29	B1	804	C	N1-C2-O2	-5.81	115.41	118.90
29	B1	2693	C	C2-N1-C1'	5.81	125.19	118.80
29	B1	2750	U	C5-C6-N1	-5.81	119.79	122.70
29	D1	2827	U	C2-N1-C1'	5.81	124.67	117.70
29	B1	1855	U	N3-C2-O2	-5.81	118.13	122.20
29	B1	2585	G	C5-C6-O6	-5.81	125.11	128.60
29	D1	592	A	C8-N9-C4	-5.81	103.48	105.80
29	D1	1547	G	C4-C5-N7	5.81	113.12	110.80
29	D1	2950	G	C6-C5-N7	-5.81	126.92	130.40
32	DA	56	PRO	N-CA-CB	5.81	110.27	103.30
32	DA	59	PRO	N-CA-CB	5.81	110.27	103.30
32	DA	135	PRO	N-CA-CB	5.81	110.27	103.30
46	BQ	59	PRO	N-CA-CB	5.81	110.27	103.30
1	C1	1498	G	N3-C4-N9	5.81	129.48	126.00
29	D1	420	G	C8-N9-C4	5.81	108.72	106.40
29	D1	1186	G	N7-C8-N9	5.81	116.00	113.10
29	B1	1855	U	C2-N1-C1'	5.80	124.67	117.70
29	D1	926	A	N1-C6-N6	-5.80	115.12	118.60
29	D1	2127	U	N3-C2-O2	5.80	126.26	122.20
29	D1	2895	G	C5-C6-O6	5.80	132.08	128.60
29	D1	3059	G	C6-C5-N7	-5.80	126.92	130.40
46	DQ	59	PRO	N-CA-CB	5.80	110.27	103.30
29	B1	719	U	N1-C2-N3	-5.80	111.42	114.90
44	BO	137	PRO	N-CA-CB	5.80	110.26	103.30
29	D1	884	A	C8-N9-C4	5.80	108.12	105.80
29	B1	1288	U	C5-C4-O4	-5.80	122.42	125.90
29	B1	1891	A	N1-C6-N6	5.80	122.08	118.60
29	D1	2369	G	C4-C5-N7	-5.80	108.48	110.80
29	D1	2599	U	N1-C2-O2	-5.80	118.74	122.80
29	D1	3342	A	N1-C6-N6	-5.80	115.12	118.60
29	D1	754	G	N3-C4-C5	5.80	131.50	128.60
29	D1	1140	G	N1-C2-N3	5.80	127.38	123.90
29	D1	2380	U	C2-N3-C4	-5.80	123.52	127.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	Db	5	PRO	N-CA-CB	5.80	110.26	103.30
29	D1	2354	C	N3-C4-C5	-5.80	119.58	121.90
29	D1	3244	A	C6-C5-N7	5.80	136.36	132.30
1	A1	63	G	N3-C2-N2	-5.80	115.84	119.90
8	AG	47	PRO	N-CA-CB	5.80	110.25	103.30
1	C1	305	C	N1-C2-O2	-5.80	115.42	118.90
1	C1	378	A	C2-N3-C4	5.80	113.50	110.60
29	D1	3026	G	N3-C4-C5	5.80	131.50	128.60
1	A1	1373	C	N1-C2-O2	-5.79	115.42	118.90
29	B1	1405	U	N3-C2-O2	5.79	126.25	122.20
29	B1	3002	C	N3-C4-C5	5.79	124.22	121.90
29	B1	3002	C	C6-N1-C2	5.79	122.62	120.30
29	B1	3277	U	C5-C6-N1	5.79	125.60	122.70
30	B2	112	G	C2-N3-C4	5.79	114.80	111.90
29	D1	2416	U	N1-C2-O2	-5.79	118.74	122.80
29	B1	1751	G	N9-C4-C5	5.79	107.72	105.40
29	B1	2187	G	N9-C4-C5	5.79	107.72	105.40
29	B1	971	G	N1-C6-O6	-5.79	116.43	119.90
29	B1	1380	G	N1-C6-O6	5.79	123.37	119.90
29	B1	2392	C	C6-N1-C2	5.79	122.62	120.30
29	B1	3018	C	N1-C2-O2	-5.79	115.43	118.90
8	CG	136	PRO	N-CA-CB	5.79	110.25	103.30
10	CI	38	PRO	N-CA-CB	5.79	110.25	103.30
29	D1	994	G	N3-C2-N2	5.79	123.95	119.90
29	D1	2667	A	C4-C5-C6	-5.79	114.11	117.00
39	DH	159	PRO	N-CA-CB	5.79	110.25	103.30
1	A1	847	A	C5-C6-N6	-5.79	119.07	123.70
29	B1	435	C	C2-N3-C4	-5.79	117.01	119.90
29	B1	624	G	C8-N9-C1'	-5.79	119.48	127.00
29	B1	992	A	N9-C4-C5	5.79	108.12	105.80
29	B1	1207	G	N1-C6-O6	5.79	123.37	119.90
29	B1	1477	A	C6-N1-C2	5.79	122.07	118.60
43	BN	48	GLY	N-CA-C	-5.79	98.63	113.10
29	D1	284	A	C5-C6-N1	5.79	120.59	117.70
29	D1	703	G	C8-N9-C1'	5.79	134.53	127.00
29	D1	837	A	C4-C5-N7	5.79	113.59	110.70
29	D1	1220	U	N1-C1'-C2'	-5.79	105.63	112.00
31	D3	50	C	N1-C2-O2	-5.79	115.43	118.90
1	A1	888	U	C2-N1-C1'	5.79	124.64	117.70
1	A1	1418	G	N1-C6-O6	5.79	123.37	119.90
29	B1	1335	C	C2-N3-C4	-5.79	117.01	119.90
29	B1	2303	A	N9-C4-C5	-5.79	103.48	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2385	G	C6-C5-N7	-5.79	126.93	130.40
41	BJ	18	PRO	N-CA-CB	5.79	110.25	103.30
1	A1	993	A	C4-C5-N7	-5.79	107.81	110.70
1	A1	1274	C	C6-N1-C2	-5.79	117.99	120.30
29	B1	1331	U	N1-C2-N3	5.79	118.37	114.90
29	B1	1444	G	C8-N9-C4	-5.79	104.09	106.40
29	B1	2325	G	C4-C5-N7	5.79	113.11	110.80
59	Bd	40	PRO	N-CA-CB	5.79	110.24	103.30
1	C1	1276	U	N1-C2-O2	-5.79	118.75	122.80
29	D1	76	G	C4-C5-N7	-5.79	108.49	110.80
29	D1	644	G	C5-C6-N1	-5.79	108.61	111.50
29	D1	2138	A	N1-C2-N3	5.79	132.19	129.30
36	DE	251	PRO	N-CA-CB	5.79	110.24	103.30
39	DH	176	PRO	N-CA-CB	5.79	110.24	103.30
1	A1	1438	G	C8-N9-C1'	-5.78	119.48	127.00
1	A1	1638	G	C2-N3-C4	-5.78	109.01	111.90
3	AB	236	PRO	N-CA-CB	5.78	110.24	103.30
29	B1	334	A	N7-C8-N9	-5.78	110.91	113.80
29	B1	1204	A	N1-C6-N6	5.78	122.07	118.60
1	C1	1602	C	C6-N1-C1'	-5.78	113.86	120.80
33	DB	197	PRO	N-CA-CB	5.78	110.24	103.30
40	DI	13	PRO	N-CA-CB	5.78	110.24	103.30
29	B1	389	A	N1-C2-N3	-5.78	126.41	129.30
29	B1	510	G	N1-C6-O6	5.78	123.37	119.90
1	C1	1033	C	N1-C2-O2	-5.78	115.43	118.90
29	B1	1175	C	C2-N1-C1'	-5.78	112.44	118.80
29	B1	2201	G	C5-C6-O6	-5.78	125.13	128.60
31	B3	53	A	C4-C5-C6	-5.78	114.11	117.00
1	C1	1198	G	C8-N9-C4	-5.78	104.09	106.40
29	D1	2810	C	N3-C4-N4	5.78	122.05	118.00
14	AM	2	PRO	N-CA-CB	5.78	110.23	103.30
29	B1	1373	A	C5-C6-N6	-5.78	119.08	123.70
62	Bg	12	GLY	N-CA-C	-5.78	98.65	113.10
1	C1	437	A	C6-C5-N7	-5.78	128.25	132.30
1	C1	629	U	N1-C2-O2	5.78	126.84	122.80
1	C1	1179	G	N9-C4-C5	-5.78	103.09	105.40
29	D1	2668	U	C6-N1-C2	-5.78	117.53	121.00
1	A1	437	A	N3-C4-N9	5.78	132.02	127.40
29	B1	75	G	C5-C6-N1	-5.78	108.61	111.50
29	B1	2970	C	C2-N1-C1'	5.78	125.16	118.80
29	B1	3244	A	N1-C2-N3	-5.78	126.41	129.30
29	D1	1453	A	C8-N9-C4	-5.78	103.49	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3084	C	C2-N1-C1'	5.78	125.15	118.80
29	B1	2609	A	C8-N9-C4	-5.78	103.49	105.80
29	B1	2883	U	C2-N3-C4	-5.78	123.53	127.00
1	C1	86	A	C5-C6-N1	-5.78	114.81	117.70
1	C1	348	U	N3-C2-O2	5.78	126.24	122.20
29	D1	528	U	N1-C2-O2	5.78	126.84	122.80
29	D1	1420	C	C5-C6-N1	-5.78	118.11	121.00
29	D1	3050	U	N3-C2-O2	-5.78	118.16	122.20
31	D3	42	G	N3-C4-C5	5.78	131.49	128.60
57	Bb	5	PRO	N-CA-CB	5.77	110.23	103.30
1	A1	597	G	C4-C5-N7	5.77	113.11	110.80
1	C1	400	A	N7-C8-N9	-5.77	110.91	113.80
29	D1	1002	A	N1-C6-N6	-5.77	115.14	118.60
29	D1	2343	C	N1-C2-O2	-5.77	115.44	118.90
29	B1	327	A	C2-N3-C4	-5.77	107.72	110.60
29	D1	529	A	C8-N9-C4	5.77	108.11	105.80
29	D1	1203	A	C8-N9-C4	-5.77	103.49	105.80
1	C1	1416	G	N1-C6-O6	5.77	123.36	119.90
1	C1	1540	G	C8-N9-C4	-5.77	104.09	106.40
8	CG	137	PRO	N-CA-CB	5.77	110.22	103.30
29	D1	595	G	C4-C5-N7	5.77	113.11	110.80
1	A1	792	U	C2-N1-C1'	5.77	124.62	117.70
2	AA	207	PRO	N-CA-CB	5.77	110.22	103.30
29	B1	1788	C	C2-N1-C1'	5.77	125.14	118.80
30	D2	92	A	N7-C8-N9	-5.77	110.92	113.80
29	B1	2988	C	N1-C2-O2	5.77	122.36	118.90
29	B1	3342	A	C6-N1-C2	-5.77	115.14	118.60
1	A1	1788	G	N3-C2-N2	-5.76	115.86	119.90
29	D1	2662	G	C6-C5-N7	-5.76	126.94	130.40
29	B1	3047	U	C5-C6-N1	-5.76	119.82	122.70
1	C1	8	U	N3-C4-O4	5.76	123.43	119.40
29	D1	1147	G	C5-C6-O6	-5.76	125.14	128.60
29	D1	3012	A	N1-C6-N6	-5.76	115.14	118.60
1	A1	1437	U	C5-C6-N1	-5.76	119.82	122.70
10	AI	109	PRO	N-CA-CB	5.76	110.21	103.30
29	B1	2134	G	C4-C5-N7	5.76	113.11	110.80
29	B1	2151	C	C5-C4-N4	-5.76	116.17	120.20
29	B1	2664	C	N1-C2-O2	5.76	122.36	118.90
29	D1	1063	G	C4-N9-C1'	-5.76	119.01	126.50
72	DL	34	PRO	N-CA-CB	5.76	110.22	103.30
29	B1	729	C	N1-C2-O2	5.76	122.36	118.90
29	B1	2330	C	N1-C2-O2	-5.76	115.44	118.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2702	A	C8-N9-C4	-5.76	103.50	105.80
31	B3	42	G	N3-C4-N9	-5.76	122.54	126.00
29	D1	1294	A	C5-C6-N1	5.76	120.58	117.70
29	D1	3060	C	N1-C2-O2	-5.76	115.44	118.90
29	B1	402	A	C5-C6-N1	-5.76	114.82	117.70
29	B1	431	U	N3-C4-C5	5.76	118.05	114.60
29	B1	963	G	N7-C8-N9	5.76	115.98	113.10
29	D1	1126	G	N9-C4-C5	5.76	107.70	105.40
29	D1	2414	G	C6-N1-C2	5.76	128.55	125.10
29	D1	2636	A	C6-N1-C2	-5.76	115.15	118.60
31	D3	117	C	N1-C2-O2	-5.76	115.45	118.90
29	B1	2892	A	C5-C6-N6	-5.75	119.10	123.70
17	AP	88	PRO	N-CA-CB	5.75	110.20	103.30
29	B1	3242	G	N1-C6-O6	-5.75	116.45	119.90
1	C1	62	A	N3-C4-N9	-5.75	122.80	127.40
5	CD	164	PRO	N-CA-CB	5.75	110.20	103.30
29	D1	832	G	N1-C6-O6	5.75	123.35	119.90
29	D1	837	A	N7-C8-N9	5.75	116.68	113.80
29	D1	1753	G	C8-N9-C4	5.75	108.70	106.40
1	A1	1303	U	C2-N1-C1'	-5.75	110.80	117.70
29	B1	950	G	N1-C6-O6	-5.75	116.45	119.90
1	C1	88	U	C5-C4-O4	5.75	129.35	125.90
29	D1	648	C	C5-C6-N1	-5.75	118.12	121.00
29	D1	956	U	C5-C6-N1	-5.75	119.82	122.70
29	D1	3035	A	C5-C6-N6	-5.75	119.10	123.70
29	D1	3096	C	N3-C2-O2	5.75	125.93	121.90
29	B1	2776	C	C2-N1-C1'	5.75	125.12	118.80
2	CA	207	PRO	N-CA-CB	5.75	110.20	103.30
29	B1	1005	G	N9-C4-C5	5.75	107.70	105.40
29	B1	2662	G	C8-N9-C4	5.75	108.70	106.40
39	BH	127	PRO	N-CA-CB	5.75	110.20	103.30
29	D1	3178	A	C2-N3-C4	-5.75	107.73	110.60
57	Db	122	PRO	N-CA-CB	5.75	110.20	103.30
1	A1	373	G	C2-N3-C4	-5.75	109.03	111.90
1	A1	610	G	C5-C6-N1	-5.75	108.63	111.50
21	AT	57	PRO	N-CA-CB	5.75	110.20	103.30
29	B1	934	G	C8-N9-C4	-5.75	104.10	106.40
29	B1	2981	U	C5-C4-O4	-5.75	122.45	125.90
1	C1	1459	C	C6-N1-C2	5.75	122.60	120.30
29	D1	371	G	N9-C4-C5	-5.75	103.10	105.40
29	D1	914	A	C2-N3-C4	5.75	113.47	110.60
29	D1	1113	G	N1-C6-O6	5.75	123.35	119.90

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1931	U	C2-N1-C1'	5.75	124.60	117.70
29	D1	3212	C	C4-C5-C6	5.75	120.27	117.40
29	B1	2395	G	N9-C4-C5	5.75	107.70	105.40
29	D1	675	C	C5-C6-N1	5.75	123.87	121.00
30	D2	112	G	C5-C6-N1	5.75	114.37	111.50
1	A1	24	U	C5-C4-O4	-5.74	122.45	125.90
1	A1	1421	A	N9-C4-C5	5.74	108.10	105.80
29	B1	1476	G	N1-C2-N3	5.74	127.35	123.90
29	B1	2689	A	N3-C4-C5	-5.74	122.78	126.80
29	D1	2283	G	C5-C6-N1	-5.74	108.63	111.50
29	B1	335	G	N3-C2-N2	-5.74	115.88	119.90
29	B1	2283	G	N1-C2-N2	5.74	121.37	116.20
31	B3	113	U	O4'-C1'-N1	5.74	112.79	108.20
1	C1	1541	G	N1-C2-N3	5.74	127.34	123.90
29	B1	2185	G	C8-N9-C4	5.74	108.70	106.40
37	BF	153	PRO	N-CA-CB	5.74	110.19	103.30
72	DL	39	PRO	N-CA-CB	5.74	110.19	103.30
29	B1	1891	A	C4-C5-N7	5.74	113.57	110.70
29	B1	2600	C	N1-C2-O2	-5.74	115.46	118.90
1	C1	1535	U	C2-N1-C1'	5.74	124.58	117.70
14	CM	31	PRO	N-CA-CB	5.74	110.19	103.30
29	D1	617	G	C5-C6-N1	5.74	114.37	111.50
29	D1	2338	C	C2-N3-C4	-5.74	117.03	119.90
52	DW	118	GLY	N-CA-C	-5.74	98.75	113.10
1	A1	647	G	C4-N9-C1'	5.74	133.96	126.50
1	C1	1645	G	C8-N9-C4	-5.74	104.11	106.40
29	D1	1005	G	N9-C4-C5	5.74	107.69	105.40
29	D1	1139	G	N3-C4-N9	-5.74	122.56	126.00
29	D1	2940	A	C5-C6-N1	5.74	120.57	117.70
42	DK	74	PRO	N-CA-CB	5.74	110.18	103.30
29	B1	2241	U	C6-N1-C1'	5.74	129.23	121.20
1	C1	968	U	N3-C2-O2	-5.74	118.19	122.20
29	D1	1380	G	C2-N3-C4	-5.74	109.03	111.90
29	B1	3213	A	C5-N7-C8	-5.73	101.03	103.90
29	D1	1001	G	N7-C8-N9	5.73	115.97	113.10
42	DK	45	PRO	N-CA-CB	5.73	110.18	103.30
29	B1	1585	C	N3-C2-O2	5.73	125.91	121.90
29	B1	2369	G	C2-N3-C4	-5.73	109.03	111.90
30	B2	65	G	N3-C4-C5	-5.73	125.73	128.60
29	D1	1307	G	C4-N9-C1'	5.73	133.95	126.50
29	D1	1402	C	C5-C6-N1	-5.73	118.13	121.00
29	D1	2632	G	N1-C6-O6	5.73	123.34	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2701	U	N3-C4-O4	5.73	123.41	119.40
29	B1	1188	U	C6-N1-C1'	5.73	129.22	121.20
29	B1	1371	G	C6-C5-N7	-5.73	126.96	130.40
29	B1	2696	A	C8-N9-C4	-5.73	103.51	105.80
29	B1	2774	C	C6-N1-C2	-5.73	118.01	120.30
29	B1	2810	C	C6-N1-C2	5.73	122.59	120.30
5	CD	67	PRO	N-CA-CB	5.73	110.18	103.30
1	A1	1109	G	N9-C4-C5	-5.73	103.11	105.40
29	B1	1439	U	C5-C6-N1	-5.73	119.83	122.70
29	B1	2896	A	N1-C2-N3	5.73	132.16	129.30
29	D1	1185	C	C5-C6-N1	-5.73	118.14	121.00
29	B1	2756	C	N1-C2-N3	5.73	123.21	119.20
41	BJ	122	PRO	N-CA-CB	5.73	110.17	103.30
1	C1	114	C	C6-N1-C1'	-5.73	113.93	120.80
1	C1	1634	C	C2-N3-C4	5.73	122.76	119.90
29	D1	1305	U	C5-C6-N1	-5.73	119.84	122.70
30	D2	4	U	N1-C2-O2	5.73	126.81	122.80
29	B1	725	G	C4-C5-N7	-5.73	108.51	110.80
29	B1	1489	A	N1-C6-N6	-5.73	115.16	118.60
29	B1	2700	G	C4-C5-N7	5.73	113.09	110.80
29	D1	1703	U	C6-N1-C2	-5.73	117.56	121.00
1	A1	1602	C	C2-N1-C1'	5.72	125.10	118.80
15	AN	110	PRO	N-CA-CB	5.72	110.17	103.30
29	B1	886	C	C2-N3-C4	-5.72	117.04	119.90
29	B1	1825	G	N9-C4-C5	5.72	107.69	105.40
29	B1	2290	C	N3-C4-C5	5.72	124.19	121.90
29	B1	2883	U	C5-C6-N1	-5.72	119.84	122.70
29	B1	3257	C	N3-C2-O2	5.72	125.91	121.90
1	C1	1110	G	C5-C6-O6	5.72	132.03	128.60
29	D1	299	G	N1-C6-O6	5.72	123.33	119.90
29	D1	880	G	C8-N9-C1'	5.72	134.44	127.00
31	D3	16	G	C6-C5-N7	-5.72	126.97	130.40
35	DD	102	PRO	N-CA-CB	5.72	110.17	103.30
29	B1	668	G	N9-C4-C5	-5.72	103.11	105.40
29	B1	1425	U	C6-N1-C2	5.72	124.43	121.00
29	B1	1429	G	C8-N9-C1'	-5.72	119.56	127.00
29	D1	720	A	C8-N9-C4	-5.72	103.51	105.80
29	D1	2928	C	C5-C4-N4	-5.72	116.19	120.20
29	B1	1376	C	C2-N3-C4	-5.72	117.04	119.90
29	B1	1888	U	N1-C2-N3	5.72	118.33	114.90
29	B1	2302	G	N3-C4-N9	-5.72	122.57	126.00
29	B1	3046	A	C8-N9-C4	-5.72	103.51	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2913	C	N3-C4-N4	-5.72	114.00	118.00
32	DA	121	PRO	N-CA-CB	5.72	110.16	103.30
29	B1	2639	G	C6-C5-N7	-5.72	126.97	130.40
29	D1	995	U	N3-C2-O2	5.72	126.20	122.20
29	D1	1476	G	C6-N1-C2	-5.72	121.67	125.10
29	B1	7	C	N3-C2-O2	-5.72	117.90	121.90
29	B1	793	C	C6-N1-C1'	-5.72	113.94	120.80
29	B1	1840	U	C5-C4-O4	5.72	129.33	125.90
1	C1	1631	A	C4-C5-C6	-5.72	114.14	117.00
29	D1	953	G	C5-N7-C8	-5.72	101.44	104.30
29	D1	1422	G	C5-C6-N1	-5.72	108.64	111.50
29	D1	2560	C	C5-C6-N1	5.72	123.86	121.00
29	D1	3205	G	C5-C6-O6	5.72	132.03	128.60
38	DG	217	PRO	N-CA-CB	5.72	110.16	103.30
29	B1	524	U	N3-C4-O4	-5.71	115.40	119.40
29	D1	70	A	N3-C4-C5	-5.71	122.80	126.80
29	D1	1184	A	C5-C6-N6	5.71	128.27	123.70
29	D1	3173	G	N3-C4-N9	-5.71	122.57	126.00
1	C1	1637	C	C6-N1-C2	-5.71	118.02	120.30
29	D1	429	U	C4-C5-C6	5.71	123.13	119.70
29	B1	171	G	C4-N9-C1'	5.71	133.93	126.50
29	B1	747	A	C5-C6-N6	-5.71	119.13	123.70
1	C1	481	A	C6-N1-C2	5.71	122.03	118.60
1	C1	1028	C	C2-N3-C4	-5.71	117.05	119.90
29	D1	985	U	N1-C2-O2	-5.71	118.80	122.80
29	D1	3244	A	C5-C6-N1	5.71	120.56	117.70
5	AD	129	PRO	N-CA-CB	5.71	110.15	103.30
29	B1	826	G	C8-N9-C4	5.71	108.68	106.40
29	D1	3225	C	C6-N1-C2	-5.71	118.02	120.30
29	B1	48	A	C8-N9-C4	5.71	108.08	105.80
29	B1	434	U	N3-C2-O2	5.71	126.20	122.20
29	B1	557	A	N1-C6-N6	5.71	122.03	118.60
29	B1	1171	G	N9-C4-C5	5.71	107.68	105.40
29	B1	2639	G	C5-C6-O6	-5.71	125.17	128.60
1	C1	337	G	N1-C6-O6	5.71	123.33	119.90
34	BC	5	LYS	N-CA-C	-5.71	95.59	111.00
1	C1	374	U	C2-N1-C1'	5.71	124.55	117.70
1	C1	1745	G	N3-C4-N9	5.71	129.42	126.00
29	D1	750	G	C4-C5-N7	-5.71	108.52	110.80
29	D1	1432	C	C6-N1-C1'	-5.71	113.95	120.80
29	D1	2607	G	C8-N9-C1'	-5.71	119.58	127.00
29	D1	2702	A	N1-C2-N3	5.71	132.15	129.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	304	G	N3-C4-N9	5.71	129.42	126.00
29	B1	832	G	C6-C5-N7	-5.71	126.98	130.40
29	B1	2977	G	C6-C5-N7	-5.71	126.98	130.40
29	B1	3233	C	C2-N1-C1'	5.71	125.08	118.80
29	D1	2687	G	N3-C4-N9	5.71	129.42	126.00
1	A1	1138	A	N9-C4-C5	5.70	108.08	105.80
29	B1	693	A	C8-N9-C1'	-5.70	117.43	127.70
29	B1	3274	A	N9-C4-C5	-5.70	103.52	105.80
1	C1	45	U	C2-N3-C4	-5.70	123.58	127.00
1	C1	1513	G	N9-C4-C5	5.70	107.68	105.40
29	D1	257	U	C6-N1-C1'	-5.70	113.21	121.20
29	B1	779	G	C8-N9-C1'	-5.70	119.59	127.00
29	B1	1307	G	C4-N9-C1'	5.70	133.91	126.50
1	A1	880	C	C6-N1-C2	5.70	122.58	120.30
29	B1	1002	A	C5-C6-N1	5.70	120.55	117.70
29	B1	1333	C	C2-N3-C4	-5.70	117.05	119.90
30	B2	66	A	N1-C6-N6	-5.70	115.18	118.60
48	BS	26	PRO	N-CA-CB	5.70	110.14	103.30
29	D1	299	G	C4-N9-C1'	5.70	133.91	126.50
29	D1	687	U	C5-C6-N1	-5.70	119.85	122.70
29	D1	1207	G	C5-N7-C8	-5.70	101.45	104.30
29	D1	2150	G	C4-C5-N7	-5.70	108.52	110.80
29	D1	3386	G	C8-N9-C4	-5.70	104.12	106.40
1	A1	374	U	C6-N1-C1'	-5.70	113.22	121.20
1	A1	1673	G	C6-N1-C2	-5.70	121.68	125.10
29	B1	421	G	C8-N9-C1'	-5.70	119.59	127.00
29	B1	2355	G	N1-C6-O6	5.70	123.32	119.90
29	B1	2396	G	C4-N9-C1'	5.70	133.91	126.50
29	B1	2939	G	C4-N9-C1'	5.70	133.91	126.50
29	B1	3220	G	C8-N9-C1'	-5.70	119.59	127.00
1	C1	968	U	N1-C2-O2	5.70	126.79	122.80
29	D1	571	U	C5-C6-N1	-5.70	119.85	122.70
29	D1	1058	U	C6-N1-C2	5.70	124.42	121.00
29	D1	1608	C	C2-N1-C1'	5.70	125.07	118.80
29	D1	2901	G	C5-C6-O6	-5.70	125.18	128.60
29	D1	3371	G	C4-C5-N7	5.70	113.08	110.80
29	B1	1586	G	N1-C6-O6	-5.70	116.48	119.90
29	B1	2134	G	N1-C6-O6	5.70	123.32	119.90
29	D1	3205	G	C6-N1-C2	-5.70	121.68	125.10
29	B1	2605	G	C4-C5-N7	5.69	113.08	110.80
29	D1	1483	G	N1-C6-O6	-5.69	116.48	119.90
29	B1	220	G	C6-C5-N7	-5.69	126.98	130.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	366	A	C2-N3-C4	-5.69	107.75	110.60
29	B1	3377	G	C8-N9-C4	-5.69	104.12	106.40
1	C1	1348	A	C3'-C2'-C1'	-5.69	96.95	101.50
29	D1	432	G	N1-C6-O6	5.69	123.32	119.90
29	D1	2302	G	N3-C4-N9	-5.69	122.58	126.00
29	D1	3190	C	N3-C2-O2	-5.69	117.92	121.90
29	B1	3329	U	N3-C2-O2	-5.69	118.22	122.20
31	B3	68	G	N3-C4-C5	5.69	131.45	128.60
29	D1	2679	A	N9-C4-C5	-5.69	103.52	105.80
29	D1	3048	A	C8-N9-C4	-5.69	103.52	105.80
29	D1	580	C	C2-N1-C1'	5.69	125.06	118.80
1	A1	1638	G	N1-C2-N3	5.69	127.31	123.90
2	AA	199	PRO	N-CA-CB	5.69	110.12	103.30
29	B1	1499	C	N3-C2-O2	5.69	125.88	121.90
29	B1	2339	C	C2-N1-C1'	5.69	125.06	118.80
21	CT	158	PRO	N-CA-CB	5.69	110.12	103.30
29	D1	1152	G	C2-N3-C4	-5.69	109.06	111.90
56	Da	88	PRO	N-CA-CB	5.69	110.12	103.30
29	D1	992	A	C8-N9-C4	-5.69	103.53	105.80
29	D1	1470	U	C5-C4-O4	-5.69	122.49	125.90
29	D1	2296	A	N1-C2-N3	5.69	132.14	129.30
29	D1	2899	C	C5-C6-N1	5.69	123.84	121.00
29	B1	529	A	N3-C4-C5	5.68	130.78	126.80
29	B1	687	U	N3-C4-O4	-5.68	115.42	119.40
29	B1	1111	U	N1-C2-O2	-5.68	118.82	122.80
48	BS	90	PRO	N-CA-CB	5.68	110.12	103.30
1	C1	1072	C	C2-N1-C1'	5.68	125.05	118.80
3	CB	234	PRO	N-CA-CB	5.68	110.12	103.30
29	D1	626	U	C2-N1-C1'	5.68	124.52	117.70
29	D1	2907	G	C8-N9-C1'	5.68	134.39	127.00
1	A1	1520	U	N3-C2-O2	5.68	126.18	122.20
29	B1	389	A	C6-C5-N7	5.68	136.28	132.30
29	B1	2248	C	N3-C2-O2	5.68	125.88	121.90
30	B2	35	C	C2-N1-C1'	5.68	125.05	118.80
1	C1	300	A	N1-C6-N6	-5.68	115.19	118.60
29	D1	1152	G	C5-N7-C8	-5.68	101.46	104.30
29	D1	2353	G	N1-C6-O6	5.68	123.31	119.90
29	D1	2885	C	N3-C4-C5	5.68	124.17	121.90
29	B1	52	A	N7-C8-N9	5.68	116.64	113.80
1	C1	1745	G	N3-C2-N2	5.68	123.88	119.90
29	D1	1585	C	N3-C2-O2	5.68	125.88	121.90
29	B1	1216	C	N1-C2-O2	-5.68	115.49	118.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3300	U	C6-N1-C1'	5.68	129.15	121.20
29	B1	3314	A	N7-C8-N9	5.68	116.64	113.80
29	D1	676	G	C4-C5-C6	5.68	122.21	118.80
29	D1	1377	G	N3-C4-C5	-5.68	125.76	128.60
1	A1	358	U	C6-N1-C1'	-5.68	113.25	121.20
29	B1	311	C	N3-C4-C5	5.68	124.17	121.90
29	B1	439	C	C2-N1-C1'	5.68	125.05	118.80
29	B1	504	A	C4-C5-C6	5.68	119.84	117.00
29	B1	577	C	C5-C6-N1	5.68	123.84	121.00
1	A1	592	A	C6-N1-C2	5.68	122.01	118.60
3	AB	227	PRO	N-CA-CB	5.68	110.11	103.30
14	AM	31	PRO	N-CA-CB	5.68	110.11	103.30
29	B1	2602	G	N7-C8-N9	-5.68	110.26	113.10
53	BX	101	PRO	N-CA-CB	5.68	110.11	103.30
21	CT	30	PRO	N-CA-CB	5.68	110.11	103.30
29	D1	389	A	C5-C6-N1	-5.68	114.86	117.70
29	D1	411	U	N3-C2-O2	5.68	126.17	122.20
33	DB	151	PRO	N-CA-CB	5.68	110.11	103.30
1	A1	1549	C	N1-C2-O2	-5.67	115.50	118.90
29	B1	283	G	C4-C5-N7	5.67	113.07	110.80
29	B1	531	G	N3-C4-C5	5.67	131.44	128.60
29	B1	1945	A	C5-C6-N1	5.67	120.54	117.70
29	B1	2529	A	C6-N1-C2	5.67	122.00	118.60
29	D1	827	A	C5-C6-N1	5.67	120.54	117.70
29	D1	1380	G	C5-C6-N1	-5.67	108.66	111.50
29	D1	3009	G	N3-C4-N9	-5.67	122.59	126.00
30	D2	111	U	C6-N1-C2	-5.67	117.60	121.00
1	A1	1602	C	C6-N1-C1'	-5.67	113.99	120.80
29	D1	2199	G	N7-C8-N9	5.67	115.94	113.10
29	D1	3396	U	C2-N1-C1'	5.67	124.51	117.70
29	B1	507	U	N3-C4-C5	5.67	118.00	114.60
29	B1	717	C	C6-N1-C2	-5.67	118.03	120.30
29	B1	883	A	C5-C6-N6	5.67	128.24	123.70
29	B1	933	A	N1-C6-N6	5.67	122.00	118.60
29	B1	952	A	C2-N3-C4	-5.67	107.76	110.60
29	B1	3017	A	C6-N1-C2	5.67	122.00	118.60
29	D1	390	G	N9-C4-C5	5.67	107.67	105.40
29	D1	987	U	C4-C5-C6	5.67	123.10	119.70
29	D1	2287	C	C6-N1-C2	-5.67	118.03	120.30
30	D2	58	C	C2-N1-C1'	5.67	125.04	118.80
21	AT	30	PRO	N-CA-CB	5.67	110.10	103.30
29	B1	364	G	C5-C6-N1	5.67	114.33	111.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1147	G	N9-C4-C5	-5.67	103.13	105.40
1	C1	1547	A	C8-N9-C4	5.67	108.07	105.80
29	D1	2278	C	C6-N1-C1'	-5.67	114.00	120.80
1	A1	1085	G	N7-C8-N9	-5.67	110.27	113.10
2	AA	35	PRO	N-CA-CB	5.67	110.10	103.30
10	AI	125	PRO	N-CA-CB	5.67	110.10	103.30
29	B1	89	A	C5-N7-C8	-5.67	101.07	103.90
29	B1	1048	A	C5-C6-N1	5.67	120.53	117.70
29	B1	1424	C	C2-N3-C4	-5.67	117.07	119.90
29	B1	2129	U	N3-C4-O4	-5.67	115.43	119.40
29	B1	2930	A	N1-C6-N6	5.67	122.00	118.60
15	CN	110	PRO	N-CA-CB	5.67	110.10	103.30
29	D1	1371	G	C6-C5-N7	-5.67	127.00	130.40
29	D1	3143	C	C3'-C2'-C1'	5.67	106.03	101.50
40	DI	30	PRO	N-CA-CB	5.67	110.10	103.30
55	DZ	49	PRO	N-CA-CB	5.67	110.10	103.30
10	AI	87	PRO	N-CA-CB	5.67	110.10	103.30
29	B1	2290	C	C2-N3-C4	-5.67	117.07	119.90
39	BH	99	PRO	N-CA-CB	5.67	110.10	103.30
29	B1	148	G	C5-C6-O6	5.67	132.00	128.60
29	B1	429	U	C2-N3-C4	-5.67	123.60	127.00
1	C1	1353	U	N1-C2-O2	5.67	126.77	122.80
29	D1	1113	G	C8-N9-C1'	-5.67	119.64	127.00
30	D2	16	U	C6-N1-C2	5.67	124.40	121.00
29	B1	271	C	N1-C2-O2	5.66	122.30	118.90
1	C1	91	G	C4-N9-C1'	-5.66	119.14	126.50
29	D1	775	A	C5-C6-N6	-5.66	119.17	123.70
29	D1	1123	U	C6-N1-C2	5.66	124.40	121.00
29	D1	1475	A	C8-N9-C4	5.66	108.06	105.80
29	D1	2116	G	N1-C6-O6	5.66	123.30	119.90
29	B1	2283	G	C2-N3-C4	-5.66	109.07	111.90
29	B1	3103	A	C4-C5-C6	5.66	119.83	117.00
29	D1	118	U	N3-C2-O2	-5.66	118.24	122.20
36	DE	181	PRO	N-CA-CB	5.66	110.09	103.30
29	B1	1303	A	C2-N3-C4	-5.66	107.77	110.60
29	B1	3211	C	C2-N1-C1'	-5.66	112.57	118.80
29	D1	3199	G	N3-C4-N9	-5.66	122.60	126.00
29	B1	2618	G	C5-C6-N1	-5.66	108.67	111.50
29	B1	2895	G	N3-C2-N2	-5.66	115.94	119.90
31	B3	36	G	N3-C4-C5	-5.66	125.77	128.60
45	BP	122	GLN	N-CA-C	-5.66	95.72	111.00
1	C1	364	G	C8-N9-C4	-5.66	104.14	106.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	309	U	N3-C4-O4	-5.66	115.44	119.40
29	D1	2740	A	C5-C6-N1	5.66	120.53	117.70
1	A1	869	A	C2-N3-C4	5.66	113.43	110.60
29	B1	281	G	C4-C5-N7	5.66	113.06	110.80
29	B1	1120	A	N1-C2-N3	5.66	132.13	129.30
29	B1	1841	A	C8-N9-C4	-5.66	103.54	105.80
29	B1	2814	G	C5-C6-O6	-5.66	125.21	128.60
29	B1	3000	A	C5-C6-N1	-5.66	114.87	117.70
30	B2	19	C	C6-N1-C1'	-5.66	114.01	120.80
36	BE	192	PRO	N-CA-CB	5.66	110.09	103.30
29	D1	2918	G	C8-N9-C4	-5.66	104.14	106.40
29	B1	1113	G	N1-C6-O6	5.65	123.29	119.90
29	D1	1172	G	C5-N7-C8	5.65	107.13	104.30
57	Db	53	PRO	N-CA-CB	5.65	110.08	103.30
29	B1	918	C	N3-C2-O2	5.65	125.86	121.90
29	B1	1434	G	N3-C2-N2	-5.65	115.94	119.90
29	B1	3176	G	C4-C5-C6	-5.65	115.41	118.80
1	C1	1377	U	N3-C4-O4	5.65	123.36	119.40
17	CP	118	PRO	N-CA-CB	5.65	110.08	103.30
1	A1	1725	U	C6-N1-C1'	-5.65	113.29	121.20
29	B1	877	C	N3-C4-N4	5.65	121.96	118.00
29	B1	2385	G	C2-N3-C4	-5.65	109.08	111.90
29	B1	2919	A	N7-C8-N9	5.65	116.62	113.80
29	B1	3210	A	C2-N3-C4	-5.65	107.78	110.60
29	D1	389	A	N3-C4-N9	-5.65	122.88	127.40
29	D1	3245	A	C5-C6-N6	-5.65	119.18	123.70
29	D1	584	G	C4-N9-C1'	-5.65	119.16	126.50
29	B1	360	G	C4-C5-N7	-5.65	108.54	110.80
29	B1	657	A	C4-C5-C6	-5.65	114.18	117.00
29	B1	1196	C	C5-C6-N1	-5.65	118.18	121.00
29	B1	1501	U	N3-C4-O4	-5.65	115.45	119.40
29	D1	569	A	C2-N3-C4	-5.65	107.78	110.60
29	D1	968	G	C5-C6-O6	5.65	131.99	128.60
29	D1	3303	G	C2-N3-C4	5.65	114.72	111.90
29	D1	52	A	N1-C2-N3	5.65	132.12	129.30
29	D1	422	A	C8-N9-C1'	5.65	137.86	127.70
29	B1	289	A	C5-C6-N1	-5.64	114.88	117.70
1	C1	1121	C	C6-N1-C1'	5.64	127.57	120.80
9	CH	120	PRO	N-CA-CB	5.64	110.07	103.30
29	D1	2665	U	C5-C6-N1	-5.64	119.88	122.70
33	DB	210	PRO	N-CA-CB	5.64	110.07	103.30
29	B1	52	A	C8-N9-C1'	-5.64	117.54	127.70

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	111	C	C6-N1-C2	5.64	122.56	120.30
29	B1	380	U	C2-N3-C4	5.64	130.38	127.00
29	B1	2823	G	C4-N9-C1'	-5.64	119.17	126.50
1	C1	597	G	C4-C5-N7	5.64	113.06	110.80
29	D1	86	G	C8-N9-C1'	5.64	134.34	127.00
29	D1	2135	U	C2-N3-C4	-5.64	123.61	127.00
29	B1	3139	A	N9-C4-C5	5.64	108.06	105.80
1	C1	418	G	C6-C5-N7	-5.64	127.02	130.40
1	A1	1437	U	N3-C2-O2	5.64	126.15	122.20
29	B1	1424	C	N3-C4-C5	5.64	124.16	121.90
54	BY	114	GLY	N-CA-C	5.64	127.20	113.10
1	C1	426	G	N3-C4-N9	5.64	129.38	126.00
1	C1	687	G	N3-C4-N9	-5.64	122.62	126.00
29	D1	379	C	N3-C2-O2	5.64	125.85	121.90
29	D1	501	A	C6-N1-C2	5.64	121.98	118.60
29	D1	1854	C	N3-C4-N4	5.64	121.95	118.00
29	B1	224	C	C6-N1-C2	-5.64	118.05	120.30
1	C1	1021	C	C6-N1-C2	5.64	122.56	120.30
1	A1	354	C	C6-N1-C2	5.64	122.56	120.30
29	B1	3217	C	C2-N1-C1'	5.64	125.00	118.80
30	B2	77	G	C5-C6-N1	5.64	114.32	111.50
1	A1	870	C	C6-N1-C2	5.63	122.55	120.30
1	A1	1786	G	C5-C6-O6	5.63	131.98	128.60
29	B1	881	C	C5-C6-N1	-5.63	118.18	121.00
29	B1	1388	U	C2-N1-C1'	-5.63	110.94	117.70
29	B1	1394	A	N1-C6-N6	5.63	121.98	118.60
29	D1	3010	U	C6-N1-C2	5.63	124.38	121.00
29	D1	3105	U	N3-C2-O2	-5.63	118.25	122.20
41	BJ	214	PRO	N-CA-CB	5.63	110.06	103.30
1	C1	786	C	C6-N1-C2	-5.63	118.05	120.30
1	A1	615	A	C6-N1-C2	-5.63	115.22	118.60
1	A1	1095	U	C2-N1-C1'	5.63	124.46	117.70
1	A1	1455	G	C5-N7-C8	5.63	107.12	104.30
29	B1	860	G	N9-C4-C5	-5.63	103.15	105.40
29	D1	2349	U	C6-N1-C2	-5.63	117.62	121.00
1	A1	1453	G	C5-C6-O6	-5.63	125.22	128.60
1	C1	336	G	N1-C6-O6	-5.63	116.52	119.90
1	C1	403	G	C4-C5-N7	5.63	113.05	110.80
1	C1	1159	C	N1-C2-O2	5.63	122.28	118.90
1	A1	1789	G	C8-N9-C1'	-5.63	119.68	127.00
29	B1	103	G	N1-C2-N3	-5.63	120.52	123.90
43	BN	67	PRO	N-CA-CB	5.63	110.05	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	563	U	N3-C4-O4	5.63	123.34	119.40
29	D1	3215	A	N7-C8-N9	5.63	116.61	113.80
29	D1	3388	C	C6-N1-C1'	-5.63	114.05	120.80
29	B1	3089	C	C6-N1-C2	-5.63	118.05	120.30
31	B3	87	G	C8-N9-C1'	-5.63	119.69	127.00
29	D1	608	A	C4-C5-C6	5.63	119.81	117.00
29	D1	987	U	C2-N3-C4	-5.63	123.62	127.00
29	D1	1322	U	N3-C4-C5	-5.63	111.22	114.60
29	D1	2961	G	N3-C4-N9	5.63	129.38	126.00
1	A1	91	G	N3-C4-C5	5.62	131.41	128.60
29	B1	935	U	C2-N1-C1'	5.62	124.45	117.70
29	B1	1618	G	C5-C6-N1	5.62	114.31	111.50
29	D1	2909	U	N1-C2-N3	5.62	118.28	114.90
29	D1	3187	A	N1-C6-N6	5.62	121.97	118.60
29	B1	563	U	C5-C6-N1	5.62	125.51	122.70
29	B1	1887	A	N1-C6-N6	5.62	121.97	118.60
29	B1	2330	C	N3-C4-C5	5.62	124.15	121.90
29	D1	596	C	N3-C2-O2	-5.62	117.96	121.90
29	D1	3266	G	N3-C2-N2	5.62	123.84	119.90
41	DJ	5	PRO	N-CA-CB	5.62	110.05	103.30
1	A1	1234	A	N1-C2-N3	-5.62	126.49	129.30
29	B1	810	A	C5-N7-C8	-5.62	101.09	103.90
29	B1	3146	G	C8-N9-C4	-5.62	104.15	106.40
29	B1	3181	C	N3-C4-C5	5.62	124.15	121.90
30	B2	33	U	N3-C2-O2	-5.62	118.26	122.20
41	BJ	16	PRO	N-CA-CB	5.62	110.05	103.30
29	D1	1525	G	N3-C4-N9	5.62	129.37	126.00
1	A1	565	C	C5-C6-N1	-5.62	118.19	121.00
29	B1	625	G	C5-C6-N1	-5.62	108.69	111.50
29	B1	2599	U	N1-C2-N3	5.62	118.27	114.90
46	BQ	143	PRO	N-CA-CB	5.62	110.04	103.30
54	BY	122	PRO	N-CA-CB	5.62	110.04	103.30
1	C1	1303	U	C6-N1-C1'	5.62	129.06	121.20
29	D1	1653	G	N3-C4-N9	5.62	129.37	126.00
29	B1	3207	U	C2-N1-C1'	-5.62	110.96	117.70
30	B2	8	G	C6-C5-N7	5.62	133.77	130.40
30	B2	101	G	C4-N9-C1'	-5.62	119.20	126.50
29	D1	171	G	C8-N9-C1'	-5.62	119.70	127.00
29	D1	3245	A	C5-N7-C8	-5.62	101.09	103.90
29	B1	659	G	C5-C6-N1	5.62	114.31	111.50
29	B1	1371	G	C4-N9-C1'	5.62	133.80	126.50
29	B1	2332	A	C2-N3-C4	-5.62	107.79	110.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2707	C	N3-C2-O2	5.62	125.83	121.90
29	D1	3035	A	N3-C4-C5	-5.62	122.87	126.80
1	A1	13	C	C5-C4-N4	-5.61	116.27	120.20
1	A1	1495	C	C6-N1-C2	5.61	122.55	120.30
29	B1	299	G	C4-C5-C6	5.61	122.17	118.80
29	B1	644	G	N3-C4-N9	-5.61	122.63	126.00
29	B1	958	C	C5-C4-N4	-5.61	116.27	120.20
29	B1	2895	G	C4-C5-N7	-5.61	108.56	110.80
1	C1	1641	C	C6-N1-C2	5.61	122.55	120.30
29	D1	589	A	N3-C4-N9	5.61	131.89	127.40
29	D1	655	C	N3-C4-C5	5.61	124.15	121.90
29	D1	880	G	C4-N9-C1'	-5.61	119.20	126.50
29	D1	1296	C	N1-C2-N3	5.61	123.13	119.20
30	D2	45	A	C8-N9-C4	5.61	108.05	105.80
29	B1	639	G	C5-C6-O6	-5.61	125.23	128.60
1	C1	1559	A	C8-N9-C4	5.61	108.05	105.80
29	D1	2919	A	N1-C2-N3	5.61	132.11	129.30
29	B1	999	G	N1-C6-O6	-5.61	116.53	119.90
29	B1	1610	G	N1-C6-O6	5.61	123.27	119.90
31	B3	100	U	N3-C2-O2	5.61	126.13	122.20
1	C1	1498	G	C4-N9-C1'	5.61	133.79	126.50
29	B1	237	G	N3-C4-N9	5.61	129.37	126.00
29	B1	1465	A	N1-C6-N6	5.61	121.96	118.60
29	B1	1608	C	C6-N1-C1'	-5.61	114.07	120.80
30	B2	6	C	N3-C2-O2	-5.61	117.97	121.90
53	BX	23	PRO	N-CA-CB	5.61	110.03	103.30
29	D1	3166	C	C6-N1-C1'	5.61	127.53	120.80
29	D1	3327	G	C5-C6-N1	5.61	114.30	111.50
1	A1	1331	A	C6-N1-C2	-5.61	115.24	118.60
1	A1	1645	G	C5-C6-O6	-5.61	125.24	128.60
29	B1	880	G	C8-N9-C1'	5.61	134.29	127.00
29	B1	880	G	N3-C4-C5	5.61	131.40	128.60
29	B1	2837	A	C4-C5-N7	-5.61	107.90	110.70
1	C1	1466	G	C4-C5-N7	5.61	113.04	110.80
21	CT	247	PRO	N-CA-CB	5.61	110.03	103.30
29	D1	189	G	C5-C6-N1	5.61	114.30	111.50
29	B1	1317	A	C6-C5-N7	-5.60	128.38	132.30
29	B1	1884	A	N3-C4-C5	5.60	130.72	126.80
30	B2	19	C	C2-N1-C1'	5.60	124.97	118.80
1	C1	1600	A	C8-N9-C4	-5.60	103.56	105.80
48	DS	90	PRO	N-CA-CB	5.60	110.03	103.30
5	AD	88	PRO	N-CA-CB	5.60	110.02	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	790	U	C6-N1-C2	5.60	124.36	121.00
29	B1	2919	A	C8-N9-C4	-5.60	103.56	105.80
29	D1	3227	A	N9-C4-C5	5.60	108.04	105.80
29	B1	393	U	N3-C2-O2	-5.60	118.28	122.20
29	D1	3136	G	N3-C4-C5	-5.60	125.80	128.60
60	De	22	PRO	N-CA-CB	5.60	110.02	103.30
29	B1	2370	G	N1-C6-O6	-5.60	116.54	119.90
29	B1	2755	C	N3-C4-C5	5.60	124.14	121.90
29	B1	2780	A	C5-C6-N6	-5.60	119.22	123.70
29	B1	3037	U	C6-N1-C2	5.60	124.36	121.00
29	B1	3103	A	C8-N9-C4	-5.60	103.56	105.80
1	C1	629	U	N3-C2-O2	-5.60	118.28	122.20
29	D1	3028	G	C5-C6-N1	-5.60	108.70	111.50
9	AH	122	PRO	N-CA-CB	5.60	110.02	103.30
29	B1	712	G	C4-N9-C1'	5.60	133.78	126.50
29	B1	1380	G	N1-C2-N3	5.60	127.26	123.90
29	B1	2780	A	C6-N1-C2	-5.60	115.24	118.60
1	C1	619	A	C8-N9-C4	5.60	108.04	105.80
14	CM	2	PRO	N-CA-CB	5.60	110.02	103.30
29	D1	3059	G	N3-C4-N9	5.60	129.36	126.00
29	B1	588	G	C4-N9-C1'	5.60	133.77	126.50
29	B1	1903	U	N3-C4-C5	-5.60	111.24	114.60
29	D1	3026	G	C5-C6-N1	-5.60	108.70	111.50
29	B1	257	U	C6-N1-C1'	-5.59	113.37	121.20
29	B1	909	G	N3-C2-N2	-5.59	115.98	119.90
29	B1	1192	C	N3-C2-O2	-5.59	117.98	121.90
29	B1	1380	G	N3-C4-C5	5.59	131.40	128.60
29	B1	1452	A	C4-C5-N7	5.59	113.50	110.70
31	D3	42	G	N3-C4-N9	-5.59	122.64	126.00
1	A1	1541	G	N3-C4-C5	-5.59	125.80	128.60
29	B1	1115	G	C5-N7-C8	-5.59	101.50	104.30
29	D1	1335	C	N1-C2-O2	-5.59	115.54	118.90
29	D1	3257	C	N3-C2-O2	5.59	125.81	121.90
29	B1	857	G	C4-C5-N7	-5.59	108.56	110.80
29	B1	1323	G	N3-C4-C5	-5.59	125.80	128.60
29	B1	1888	U	C5-C4-O4	5.59	129.25	125.90
29	B1	3329	U	C5-C4-O4	5.59	129.25	125.90
1	C1	1792	G	C6-C5-N7	-5.59	127.05	130.40
29	D1	1467	A	C8-N9-C4	5.59	108.04	105.80
29	D1	1856	C	C2-N3-C4	-5.59	117.11	119.90
29	D1	3137	C	C6-N1-C2	5.59	122.54	120.30
41	DJ	47	PRO	N-CA-CB	5.59	110.01	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	53	G	N1-C6-O6	-5.59	116.55	119.90
29	B1	626	U	C2-N1-C1'	5.59	124.41	117.70
29	B1	965	A	N7-C8-N9	-5.59	111.01	113.80
29	B1	2531	C	C2-N1-C1'	5.59	124.95	118.80
29	B1	2951	G	N3-C4-N9	-5.59	122.65	126.00
29	B1	3259	U	N3-C2-O2	5.59	126.11	122.20
50	BU	127	PRO	N-CA-CB	5.59	110.01	103.30
29	D1	513	G	N1-C6-O6	-5.59	116.55	119.90
29	D1	695	C	C5-C6-N1	-5.59	118.20	121.00
29	D1	1171	G	N3-C2-N2	-5.59	115.99	119.90
29	D1	1686	U	N1-C2-O2	5.59	126.71	122.80
29	D1	2528	G	N3-C4-N9	-5.59	122.65	126.00
29	D1	2667	A	C6-C5-N7	5.59	136.21	132.30
1	C1	1591	C	C2-N3-C4	-5.59	117.11	119.90
1	A1	1141	G	C4-C5-N7	5.59	113.03	110.80
29	B1	1151	U	N1-C2-O2	-5.59	118.89	122.80
29	B1	2618	G	N9-C4-C5	5.59	107.63	105.40
29	B1	2907	G	C8-N9-C1'	5.59	134.26	127.00
1	C1	647	G	C8-N9-C1'	-5.59	119.74	127.00
29	D1	2416	U	N3-C2-O2	5.59	126.11	122.20
1	A1	1149	G	N3-C4-C5	-5.58	125.81	128.60
1	A1	1634	C	C2-N3-C4	5.58	122.69	119.90
29	B1	1878	G	N3-C4-N9	5.58	129.35	126.00
29	B1	2650	U	C6-N1-C1'	5.58	129.02	121.20
29	D1	3296	A	C2-N3-C4	5.58	113.39	110.60
1	A1	63	G	N3-C4-N9	-5.58	122.65	126.00
5	AD	164	PRO	N-CA-CB	5.58	110.00	103.30
29	B1	1180	A	N9-C4-C5	5.58	108.03	105.80
29	B1	3078	U	C6-N1-C1'	-5.58	113.38	121.20
1	C1	1137	A	C8-N9-C4	5.58	108.03	105.80
1	C1	1523	G	N1-C6-O6	5.58	123.25	119.90
29	D1	1188	U	C2-N3-C4	-5.58	123.65	127.00
29	D1	1434	G	C8-N9-C4	5.58	108.63	106.40
29	D1	2881	C	C2-N1-C1'	-5.58	112.66	118.80
29	D1	3271	G	N3-C4-C5	-5.58	125.81	128.60
1	A1	628	G	N1-C2-N2	-5.58	111.18	116.20
29	B1	2355	G	N9-C4-C5	-5.58	103.17	105.40
29	B1	2882	U	C5-C4-O4	-5.58	122.55	125.90
53	BX	96	PRO	N-CA-CB	5.58	110.00	103.30
29	D1	389	A	N9-C4-C5	5.58	108.03	105.80
29	B1	1177	G	C4-C5-N7	5.58	113.03	110.80
29	B1	2347	U	C2-N1-C1'	-5.58	111.00	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3200	G	C6-N1-C2	5.58	128.45	125.10
1	C1	825	U	C2-N3-C4	-5.58	123.65	127.00
29	D1	188	U	N3-C2-O2	-5.58	118.29	122.20
29	B1	2740	A	C6-N1-C2	-5.58	115.25	118.60
29	D1	567	G	C4-C5-N7	5.58	113.03	110.80
29	D1	1052	U	N1-C2-O2	-5.58	118.89	122.80
38	DG	204	PRO	N-CA-CB	5.58	110.00	103.30
29	B1	1140	G	C2-N3-C4	-5.58	109.11	111.90
29	B1	2892	A	C5-C6-N1	-5.58	114.91	117.70
29	D1	3386	G	C8-N9-C1'	-5.58	119.75	127.00
1	A1	427	C	N1-C2-O2	-5.58	115.56	118.90
1	A1	1166	A	C5-C6-N6	-5.58	119.24	123.70
1	C1	439	U	C2-N1-C1'	5.58	124.39	117.70
1	C1	1521	G	N3-C4-C5	5.58	131.39	128.60
29	D1	1323	G	N3-C4-C5	-5.58	125.81	128.60
29	D1	2283	G	N3-C4-C5	5.58	131.39	128.60
29	D1	2556	C	N3-C2-O2	-5.58	118.00	121.90
29	D1	2951	G	N3-C4-N9	-5.58	122.65	126.00
29	D1	3066	U	C5-C4-O4	5.58	129.25	125.90
31	D3	16	G	C5-C6-O6	-5.58	125.25	128.60
29	B1	332	C	C5-C6-N1	5.57	123.79	121.00
29	B1	428	A	C4-C5-C6	5.57	119.79	117.00
40	BI	30	PRO	N-CA-CB	5.57	109.99	103.30
1	C1	1786	G	N1-C6-O6	-5.57	116.56	119.90
29	D1	3199	G	N1-C6-O6	5.57	123.24	119.90
29	B1	387	A	C2-N3-C4	-5.57	107.81	110.60
29	B1	985	U	N3-C4-O4	-5.57	115.50	119.40
1	C1	1633	A	C4-N9-C1'	5.57	136.33	126.30
29	D1	1612	A	C6-N1-C2	5.57	121.94	118.60
29	D1	2830	G	C4-C5-C6	5.57	122.14	118.80
3	AB	234	PRO	N-CA-CB	5.57	109.98	103.30
29	B1	994	G	N3-C4-C5	-5.57	125.81	128.60
29	B1	2707	C	C6-N1-C2	5.57	122.53	120.30
29	B1	3139	A	C5-C6-N6	5.57	128.16	123.70
1	C1	575	C	C6-N1-C2	5.57	122.53	120.30
29	D1	1047	A	C5-C6-N6	5.57	128.16	123.70
29	D1	3173	G	C2-N3-C4	-5.57	109.11	111.90
29	D1	3232	G	N1-C6-O6	-5.57	116.56	119.90
39	DH	167	PRO	N-CA-CB	5.57	109.98	103.30
29	B1	1825	G	C8-N9-C1'	5.57	134.24	127.00
30	B2	35	C	C6-N1-C1'	-5.57	114.12	120.80
29	B1	2300	G	C8-N9-C1'	-5.57	119.76	127.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3108	G	N1-C2-N2	5.57	121.21	116.20
31	B3	53	A	C2-N3-C4	5.57	113.38	110.60
1	C1	1472	C	C2-N1-C1'	5.57	124.92	118.80
29	D1	2856	G	N1-C6-O6	5.57	123.24	119.90
73	DM	92	PRO	N-CA-CB	5.57	109.98	103.30
1	A1	541	A	C8-N9-C4	-5.57	103.57	105.80
29	B1	1403	C	C2-N3-C4	-5.57	117.12	119.90
29	B1	3030	G	N1-C6-O6	5.57	123.24	119.90
29	B1	3264	G	C8-N9-C4	-5.57	104.17	106.40
1	C1	647	G	C4-N9-C1'	5.57	133.74	126.50
29	D1	1440	G	C8-N9-C4	5.57	108.63	106.40
29	D1	1496	C	C2-N1-C1'	5.57	124.92	118.80
1	A1	86	A	C8-N9-C4	-5.56	103.58	105.80
29	B1	1333	C	C6-N1-C1'	-5.56	114.12	120.80
1	C1	406	U	N3-C2-O2	5.56	126.09	122.20
1	C1	1647	U	C2-N3-C4	5.56	130.34	127.00
29	D1	3030	G	C3'-C2'-C1'	5.56	105.95	101.50
29	B1	529	A	N1-C2-N3	-5.56	126.52	129.30
29	B1	605	U	C5-C4-O4	-5.56	122.56	125.90
29	B1	1450	G	C5-C6-O6	-5.56	125.26	128.60
29	B1	1481	A	N1-C6-N6	5.56	121.94	118.60
30	B2	9	C	N1-C2-N3	5.56	123.09	119.20
1	C1	115	G	N3-C2-N2	-5.56	116.01	119.90
1	C1	1141	G	C5-C6-O6	-5.56	125.26	128.60
29	D1	1113	G	C6-C5-N7	-5.56	127.06	130.40
29	D1	3211	C	C2-N1-C1'	-5.56	112.68	118.80
29	B1	341	G	C4-C5-N7	5.56	113.02	110.80
29	B1	655	C	N3-C4-C5	5.56	124.12	121.90
29	B1	693	A	C4-N9-C1'	5.56	136.31	126.30
29	B1	2556	C	C6-N1-C2	-5.56	118.08	120.30
29	B1	2668	U	C2-N1-C1'	5.56	124.37	117.70
30	B2	5	G	N3-C4-C5	5.56	131.38	128.60
29	D1	315	C	C6-N1-C1'	-5.56	114.13	120.80
29	D1	1323	G	C4-N9-C1'	5.56	133.73	126.50
29	D1	1439	U	N1-C2-O2	-5.56	118.91	122.80
29	B1	787	G	N1-C6-O6	5.56	123.23	119.90
29	B1	1147	G	C5-C6-O6	-5.56	125.27	128.60
29	B1	2129	U	N3-C2-O2	-5.56	118.31	122.20
1	C1	79	C	C5-C6-N1	5.56	123.78	121.00
29	D1	171	G	C4-N9-C1'	5.56	133.72	126.50
29	D1	516	A	N1-C2-N3	-5.56	126.52	129.30
29	D1	1148	G	C5-N7-C8	-5.56	101.52	104.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1205	C	C6-N1-C1'	-5.56	114.13	120.80
29	D1	1522	U	C2-N1-C1'	5.56	124.37	117.70
29	B1	1357	G	C5-C6-O6	5.55	131.93	128.60
29	D1	2287	C	N3-C4-N4	-5.55	114.11	118.00
1	C1	584	C	C5-C6-N1	-5.55	118.22	121.00
1	C1	1561	U	C6-N1-C2	5.55	124.33	121.00
38	DG	96	PRO	N-CA-CB	5.55	109.96	103.30
29	B1	531	G	C2-N3-C4	-5.55	109.12	111.90
29	B1	3143	C	C3'-C2'-C1'	5.55	105.94	101.50
39	BH	159	PRO	N-CA-CB	5.55	109.96	103.30
39	BH	167	PRO	N-CA-CB	5.55	109.96	103.30
47	BR	43	PRO	N-CA-CB	5.55	109.96	103.30
29	D1	1133	A	C6-N1-C2	5.55	121.93	118.60
1	A1	827	C	N1-C2-O2	-5.55	115.57	118.90
29	B1	875	G	C6-C5-N7	-5.55	127.07	130.40
29	B1	1307	G	N3-C4-N9	5.55	129.33	126.00
29	B1	1653	G	N3-C4-N9	5.55	129.33	126.00
29	B1	3377	G	C6-C5-N7	-5.55	127.07	130.40
29	D1	45	A	N7-C8-N9	-5.55	111.03	113.80
29	D1	2805	G	C5-C6-N1	5.55	114.28	111.50
29	D1	2887	A	N9-C4-C5	5.55	108.02	105.80
31	D3	44	A	C6-N1-C2	-5.55	115.27	118.60
34	DC	5	LYS	N-CA-C	-5.55	96.02	111.00
29	B1	1907	C	C6-N1-C2	5.55	122.52	120.30
1	C1	1498	G	C8-N9-C1'	-5.55	119.79	127.00
29	D1	876	A	C8-N9-C4	5.55	108.02	105.80
29	D1	1751	G	N3-C4-C5	-5.55	125.83	128.60
29	D1	3215	A	N9-C4-C5	5.55	108.02	105.80
1	A1	95	G	C4-N9-C1'	-5.55	119.29	126.50
29	B1	219	A	C5-N7-C8	-5.55	101.13	103.90
29	B1	284	A	N1-C2-N3	5.55	132.07	129.30
29	B1	1042	U	C6-N1-C2	5.55	124.33	121.00
29	B1	1076	C	N1-C2-O2	5.55	122.23	118.90
30	B2	29	C	C6-N1-C2	5.55	122.52	120.30
29	D1	687	U	N3-C4-O4	-5.55	115.52	119.40
1	A1	1636	C	C6-N1-C2	5.54	122.52	120.30
29	D1	345	G	N1-C6-O6	5.54	123.23	119.90
1	A1	993	A	N1-C6-N6	-5.54	115.27	118.60
29	B1	244	G	C4-C5-N7	-5.54	108.58	110.80
29	B1	753	C	C2-N3-C4	-5.54	117.13	119.90
29	B1	1592	G	C8-N9-C4	-5.54	104.18	106.40
29	B1	2330	C	C6-N1-C2	5.54	122.52	120.30

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2917	G	N7-C8-N9	-5.54	110.33	113.10
29	B1	3388	C	C6-N1-C1'	-5.54	114.15	120.80
1	C1	1472	C	N1-C2-O2	5.54	122.23	118.90
29	D1	589	A	C8-N9-C4	-5.54	103.58	105.80
29	D1	655	C	C2-N3-C4	-5.54	117.13	119.90
29	D1	1152	G	C4-C5-N7	5.54	113.02	110.80
29	D1	1892	G	N3-C4-N9	-5.54	122.67	126.00
29	D1	2630	C	C2-N3-C4	-5.54	117.13	119.90
29	D1	2693	C	N1-C2-O2	5.54	122.23	118.90
29	D1	3265	C	N3-C2-O2	-5.54	118.02	121.90
54	DY	114	GLY	N-CA-C	5.54	126.96	113.10
1	A1	1174	C	C5-C6-N1	-5.54	118.23	121.00
1	A1	1791	A	C4-C5-N7	5.54	113.47	110.70
29	B1	156	G	N1-C6-O6	-5.54	116.58	119.90
29	B1	2197	C	N3-C2-O2	5.54	125.78	121.90
1	C1	423	G	N3-C4-C5	-5.54	125.83	128.60
29	D1	608	A	C6-C5-N7	-5.54	128.42	132.30
29	D1	744	A	C6-N1-C2	-5.54	115.28	118.60
29	D1	2122	G	N3-C2-N2	-5.54	116.02	119.90
29	D1	3115	C	C6-N1-C2	-5.54	118.08	120.30
1	A1	1244	A	C5-C6-N6	5.54	128.13	123.70
29	B1	944	C	C2-N1-C1'	-5.54	112.71	118.80
29	D1	873	C	N3-C4-N4	5.54	121.88	118.00
29	D1	2400	G	C6-C5-N7	-5.54	127.08	130.40
29	D1	2719	U	N1-C2-N3	5.54	118.22	114.90
1	A1	847	A	C5-C6-N1	5.54	120.47	117.70
1	A1	939	A	N7-C8-N9	5.54	116.57	113.80
29	B1	671	U	C5-C6-N1	-5.54	119.93	122.70
29	B1	2366	C	N3-C4-C5	5.54	124.11	121.90
29	B1	3363	U	N3-C2-O2	-5.54	118.32	122.20
2	CA	126	PRO	N-CA-CB	5.54	109.95	103.30
2	CA	199	PRO	N-CA-CB	5.54	109.95	103.30
29	D1	2362	C	N3-C4-C5	-5.54	119.69	121.90
29	D1	222	A	C4-C5-N7	5.54	113.47	110.70
29	B1	836	A	C2-N3-C4	5.54	113.37	110.60
29	B1	2707	C	N1-C2-O2	-5.54	115.58	118.90
29	B1	2853	A	N1-C6-N6	5.54	121.92	118.60
2	CA	42	PRO	N-CA-CB	5.54	109.94	103.30
29	D1	891	G	C8-N9-C4	5.54	108.61	106.40
29	D1	1001	G	C4-N9-C1'	5.54	133.70	126.50
29	D1	1507	G	N3-C2-N2	-5.54	116.02	119.90
29	D1	3316	A	C8-N9-C4	5.54	108.01	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	341	A	C5-C6-N1	5.53	120.47	117.70
29	B1	822	G	N3-C4-C5	5.53	131.37	128.60
29	B1	1331	U	C2-N3-C4	-5.53	123.68	127.00
29	B1	1357	G	N1-C6-O6	-5.53	116.58	119.90
29	B1	1678	G	C8-N9-C4	-5.53	104.19	106.40
29	B1	1900	A	C8-N9-C4	-5.53	103.59	105.80
29	B1	2138	A	C4-C5-C6	5.53	119.77	117.00
29	B1	2400	G	N1-C6-O6	5.53	123.22	119.90
29	B1	1294	A	N3-C4-C5	-5.53	122.93	126.80
29	B1	1367	G	C6-C5-N7	-5.53	127.08	130.40
29	B1	2301	U	N3-C2-O2	5.53	126.07	122.20
29	D1	1085	A	C2-N3-C4	-5.53	107.83	110.60
21	AT	276	PRO	N-CA-CB	5.53	109.94	103.30
29	B1	428	A	C2-N3-C4	-5.53	107.83	110.60
39	BH	176	PRO	N-CA-CB	5.53	109.94	103.30
1	C1	1097	U	C2-N1-C1'	-5.53	111.06	117.70
29	D1	609	G	C8-N9-C4	-5.53	104.19	106.40
29	D1	1066	G	C8-N9-C4	-5.53	104.19	106.40
29	D1	1327	C	N3-C2-O2	-5.53	118.03	121.90
29	D1	2262	A	C4-N9-C1'	5.53	136.25	126.30
29	D1	2527	G	N3-C2-N2	-5.53	116.03	119.90
29	D1	2702	A	C8-N9-C4	-5.53	103.59	105.80
29	D1	2740	A	C6-N1-C2	-5.53	115.28	118.60
29	D1	3001	C	N3-C4-C5	5.53	124.11	121.90
29	D1	3078	U	C2-N1-C1'	5.53	124.34	117.70
30	D2	35	C	N1-C2-O2	5.53	122.22	118.90
29	B1	2988	C	N3-C4-C5	5.53	124.11	121.90
29	D1	1429	G	N3-C4-N9	5.53	129.32	126.00
31	D3	131	A	C6-N1-C2	5.53	121.92	118.60
29	B1	207	U	C5-C4-O4	-5.53	122.58	125.90
29	B1	1891	A	C2-N3-C4	-5.53	107.84	110.60
1	C1	439	U	C5-C4-O4	-5.53	122.58	125.90
29	D1	1370	G	N1-C6-O6	5.53	123.22	119.90
29	D1	2853	A	N1-C2-N3	-5.53	126.54	129.30
29	D1	3233	C	C2-N1-C1'	5.53	124.88	118.80
29	B1	2246	G	C5-C6-N1	5.52	114.26	111.50
29	D1	3381	U	N1-C2-O2	5.52	126.67	122.80
29	B1	933	A	C2-N3-C4	5.52	113.36	110.60
29	B1	1850	A	C8-N9-C4	5.52	108.01	105.80
29	D1	3063	C	N3-C2-O2	5.52	125.77	121.90
29	B1	876	A	N7-C8-N9	-5.52	111.04	113.80
29	B1	2935	U	C2-N1-C1'	-5.52	111.08	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	922	U	C2-N1-C1'	-5.52	111.08	117.70
29	D1	2296	A	C2-N3-C4	-5.52	107.84	110.60
29	D1	2896	A	N9-C4-C5	5.52	108.01	105.80
29	B1	693	A	C6-C5-N7	-5.52	128.44	132.30
1	C1	447	U	C3'-C2'-C1'	5.52	105.92	101.50
21	CT	57	PRO	N-CA-CB	5.52	109.92	103.30
29	D1	1315	U	N1-C2-O2	5.52	126.66	122.80
29	D1	1450	G	C5-C6-N1	-5.52	108.74	111.50
29	D1	1641	U	N3-C2-O2	5.52	126.06	122.20
29	D1	2291	A	N1-C6-N6	5.52	121.91	118.60
29	D1	2693	C	C6-N1-C1'	-5.52	114.17	120.80
72	DL	30	PRO	N-CA-CB	5.52	109.92	103.30
2	AA	126	PRO	N-CA-CB	5.52	109.92	103.30
29	B1	264	G	N3-C4-N9	5.52	129.31	126.00
29	B1	1861	G	N3-C4-N9	-5.52	122.69	126.00
29	B1	1951	C	N1-C2-N3	-5.52	115.34	119.20
29	B1	2679	A	N9-C4-C5	-5.52	103.59	105.80
29	B1	3173	G	C5-C6-N1	-5.52	108.74	111.50
29	D1	1402	C	C2-N3-C4	-5.52	117.14	119.90
29	D1	3040	A	N9-C4-C5	5.52	108.01	105.80
29	D1	3129	A	C8-N9-C1'	5.52	137.63	127.70
47	DR	132	PRO	N-CA-CB	5.52	109.92	103.30
29	B1	2663	G	N7-C8-N9	-5.52	110.34	113.10
29	D1	651	G	C6-C5-N7	-5.52	127.09	130.40
29	B1	2274	U	N3-C2-O2	-5.51	118.34	122.20
29	B1	2301	U	C6-N1-C2	5.51	124.31	121.00
29	D1	299	G	C6-C5-N7	-5.51	127.09	130.40
29	D1	859	G	N1-C6-O6	5.51	123.21	119.90
29	D1	3380	U	C6-N1-C1'	5.51	128.92	121.20
29	B1	498	A	C4-C5-N7	5.51	113.46	110.70
29	B1	1906	G	N1-C6-O6	5.51	123.21	119.90
29	B1	2117	A	N1-C6-N6	-5.51	115.29	118.60
1	C1	95	G	N3-C4-C5	5.51	131.36	128.60
29	B1	1439	U	C6-N1-C2	5.51	124.31	121.00
29	B1	2398	A	N3-C4-N9	5.51	131.81	127.40
1	C1	400	A	C8-N9-C4	5.51	108.00	105.80
1	C1	981	U	C5-C4-O4	-5.51	122.59	125.90
1	C1	1198	G	C5-C6-O6	5.51	131.91	128.60
29	B1	703	G	N1-C2-N2	5.51	121.16	116.20
1	C1	45	U	N1-C2-O2	5.51	126.66	122.80
10	CI	109	PRO	N-CA-CB	5.51	109.91	103.30
1	A1	1467	C	N1-C2-O2	-5.51	115.59	118.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1781	A	C8-N9-C4	-5.51	103.60	105.80
29	B1	2618	G	C4-C5-N7	-5.51	108.60	110.80
29	B1	3182	G	C8-N9-C4	5.51	108.60	106.40
1	A1	1118	G	C4-N9-C1'	-5.51	119.34	126.50
1	A1	1134	C	C6-N1-C2	5.51	122.50	120.30
29	B1	125	C	C5-C4-N4	-5.51	116.34	120.20
29	B1	1173	U	C2-N3-C4	-5.51	123.70	127.00
30	B2	114	U	N1-C2-O2	5.51	126.66	122.80
31	B3	11	C	N3-C2-O2	-5.51	118.05	121.90
44	BO	74	PRO	N-CA-CB	5.51	109.91	103.30
1	C1	1140	G	C5-C6-N1	5.51	114.25	111.50
1	C1	1465	C	C6-N1-C2	-5.51	118.10	120.30
1	C1	1541	G	N3-C4-N9	5.51	129.30	126.00
29	D1	562	C	C6-N1-C2	-5.51	118.10	120.30
29	D1	1324	U	C6-N1-C2	-5.51	117.70	121.00
29	D1	1489	A	N1-C6-N6	-5.51	115.30	118.60
29	B1	146	U	C5-C4-O4	-5.50	122.60	125.90
29	B1	2369	G	C5-C6-O6	-5.50	125.30	128.60
1	C1	1609	U	N3-C2-O2	5.50	126.05	122.20
29	B1	404	G	C5-C6-O6	5.50	131.90	128.60
1	C1	1562	G	N3-C4-N9	-5.50	122.70	126.00
29	D1	954	U	N3-C4-O4	5.50	123.25	119.40
29	D1	2882	U	C6-N1-C2	-5.50	117.70	121.00
37	DF	27	PRO	N-CA-CB	5.50	109.90	103.30
3	AB	151	PRO	N-CA-CB	5.50	109.90	103.30
29	B1	220	G	N9-C4-C5	-5.50	103.20	105.40
29	B1	576	C	N3-C2-O2	5.50	125.75	121.90
29	B1	2969	A	N3-C4-C5	5.50	130.65	126.80
1	C1	1066	C	C2-N1-C1'	5.50	124.85	118.80
29	D1	590	G	N7-C8-N9	-5.50	110.35	113.10
29	D1	1780	G	C3'-C2'-C1'	5.50	105.90	101.50
1	A1	610	G	N9-C4-C5	-5.50	103.20	105.40
29	D1	1134	G	C4-C5-N7	-5.50	108.60	110.80
29	D1	2633	U	N3-C4-C5	-5.50	111.30	114.60
29	B1	949	C	C5-C6-N1	-5.50	118.25	121.00
29	D1	54	C	C6-N1-C2	5.50	122.50	120.30
29	D1	1429	G	C8-N9-C1'	-5.50	119.85	127.00
29	D1	1936	A	N1-C6-N6	-5.50	115.30	118.60
21	AT	158	PRO	N-CA-CB	5.50	109.90	103.30
29	B1	613	G	C2-N3-C4	-5.50	109.15	111.90
29	B1	963	G	N9-C4-C5	-5.50	103.20	105.40
29	B1	2929	C	N3-C4-N4	5.50	121.85	118.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2993	G	O4'-C1'-N9	5.50	112.60	108.20
1	C1	466	U	C5-C6-N1	-5.50	119.95	122.70
1	C1	1144	U	N3-C2-O2	-5.50	118.35	122.20
29	D1	3090	U	C5-C6-N1	5.50	125.45	122.70
44	DO	45	PRO	N-CA-CB	5.50	109.90	103.30
29	B1	859	G	C4-N9-C1'	5.50	133.64	126.50
1	A1	1788	G	C4-N9-C1'	-5.49	119.36	126.50
29	B1	971	G	N3-C4-C5	-5.49	125.85	128.60
29	B1	2671	A	C5-C6-N1	5.49	120.45	117.70
1	C1	1542	G	N3-C4-C5	-5.49	125.85	128.60
29	D1	650	C	C2-N1-C1'	5.49	124.84	118.80
29	D1	1951	C	N1-C2-O2	5.49	122.20	118.90
29	D1	2639	G	C5-C6-O6	-5.49	125.30	128.60
1	A1	1677	C	C6-N1-C2	-5.49	118.10	120.30
29	D1	1160	C	C6-N1-C1'	-5.49	114.21	120.80
29	B1	98	G	C4-C5-N7	-5.49	108.60	110.80
29	B1	190	U	C5-C4-O4	5.49	129.19	125.90
29	B1	1516	C	N1-C2-O2	-5.49	115.61	118.90
29	D1	2330	C	C5-C6-N1	-5.49	118.25	121.00
29	D1	3131	U	C2-N1-C1'	5.49	124.29	117.70
31	D3	62	C	C6-N1-C2	5.49	122.50	120.30
1	A1	1198	G	C5-C6-O6	5.49	131.89	128.60
29	B1	645	A	C6-N1-C2	-5.49	115.31	118.60
29	B1	1481	A	N9-C4-C5	-5.49	103.61	105.80
29	B1	2421	U	N1-C2-O2	-5.49	118.96	122.80
29	B1	2959	C	N1-C2-O2	-5.49	115.61	118.90
29	B1	3233	C	C6-N1-C1'	-5.49	114.22	120.80
29	B1	3324	C	C2-N1-C1'	5.49	124.84	118.80
30	B2	66	A	C2-N3-C4	-5.49	107.86	110.60
1	C1	1486	G	C8-N9-C4	5.49	108.59	106.40
29	D1	965	A	N7-C8-N9	-5.49	111.06	113.80
29	D1	1552	G	N3-C4-C5	-5.49	125.86	128.60
29	D1	2833	A	C8-N9-C4	5.49	108.00	105.80
1	A1	374	U	N3-C4-C5	5.49	117.89	114.60
29	B1	941	G	C4-C5-N7	-5.49	108.61	110.80
29	B1	2880	U	N1-C2-N3	5.49	118.19	114.90
29	D1	1937	U	N3-C2-O2	5.49	126.04	122.20
29	D1	3225	C	N3-C2-O2	-5.49	118.06	121.90
1	A1	1072	C	C2-N1-C1'	5.49	124.83	118.80
29	B1	1146	C	C5-C6-N1	-5.49	118.26	121.00
29	B1	1751	G	C5-C6-N1	5.49	114.24	111.50
29	B1	3106	A	C5-C6-N6	-5.49	119.31	123.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	804	C	N3-C4-C5	5.49	124.09	121.90
29	D1	2869	U	N3-C2-O2	-5.49	118.36	122.20
33	DB	141	PRO	N-CA-CB	5.49	109.88	103.30
29	B1	428	A	C5-N7-C8	-5.48	101.16	103.90
29	B1	1547	G	C8-N9-C1'	-5.48	119.87	127.00
35	DD	223	PRO	N-CA-CB	5.48	109.88	103.30
29	B1	794	U	N3-C2-O2	5.48	126.04	122.20
29	B1	1342	C	N1-C2-O2	-5.48	115.61	118.90
29	B1	2156	C	C5-C6-N1	-5.48	118.26	121.00
1	C1	388	G	N9-C4-C5	5.48	107.59	105.40
9	CH	122	PRO	N-CA-CB	5.48	109.88	103.30
29	D1	875	G	N1-C6-O6	5.48	123.19	119.90
29	D1	1141	C	C5-C6-N1	-5.48	118.26	121.00
29	D1	1628	C	N1-C2-O2	-5.48	115.61	118.90
29	D1	2349	U	C2-N1-C1'	5.48	124.28	117.70
29	D1	2897	A	C5-C6-N6	-5.48	119.31	123.70
29	D1	3303	G	C6-N1-C2	-5.48	121.81	125.10
1	A1	322	G	C5-C6-O6	-5.48	125.31	128.60
29	B1	886	C	N3-C4-C5	5.48	124.09	121.90
29	B1	1476	G	C6-N1-C2	-5.48	121.81	125.10
29	D1	513	G	C6-N1-C2	5.48	128.39	125.10
29	D1	857	G	C4-C5-N7	-5.48	108.61	110.80
29	D1	2527	G	C4-N9-C1'	-5.48	119.38	126.50
43	DN	48	GLY	N-CA-C	-5.48	99.40	113.10
29	B1	190	U	C6-N1-C1'	5.48	128.87	121.20
29	D1	120	G	C8-N9-C1'	5.48	134.12	127.00
29	B1	120	G	N3-C4-C5	5.48	131.34	128.60
29	B1	588	G	N3-C2-N2	-5.48	116.06	119.90
29	B1	718	G	N1-C6-O6	-5.48	116.61	119.90
29	B1	2370	G	N3-C2-N2	5.48	123.73	119.90
29	B1	2398	A	C6-C5-N7	-5.48	128.47	132.30
29	B1	2889	C	N1-C2-O2	-5.48	115.61	118.90
29	B1	3036	G	N7-C8-N9	-5.48	110.36	113.10
29	B1	3100	U	C5-C4-O4	-5.48	122.61	125.90
1	C1	1352	G	N3-C2-N2	-5.48	116.07	119.90
1	A1	1202	A	N1-C6-N6	-5.48	115.31	118.60
13	AL	82	PRO	N-CA-CB	5.48	109.87	103.30
29	B1	1061	A	C2-N3-C4	-5.48	107.86	110.60
1	A1	149	C	C6-N1-C1'	-5.47	114.23	120.80
29	B1	805	G	C8-N9-C4	-5.47	104.21	106.40
29	B1	2156	C	C2-N3-C4	-5.47	117.16	119.90
29	B1	2943	G	C2-N3-C4	-5.47	109.16	111.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2919	A	C6-C5-N7	-5.47	128.47	132.30
31	D3	17	A	N1-C6-N6	5.47	121.89	118.60
1	A1	1647	U	N1-C2-N3	-5.47	111.62	114.90
29	B1	703	G	N3-C2-N2	-5.47	116.07	119.90
29	B1	819	U	C6-N1-C2	5.47	124.28	121.00
29	B1	2939	G	N3-C4-C5	-5.47	125.86	128.60
1	C1	1190	C	N1-C2-O2	-5.47	115.62	118.90
29	D1	1336	U	C5-C4-O4	-5.47	122.62	125.90
29	D1	2370	G	C5-C6-O6	5.47	131.88	128.60
30	D2	14	U	N3-C4-C5	-5.47	111.32	114.60
46	BQ	84	PRO	N-CA-CB	5.47	109.86	103.30
1	C1	686	C	C5-C4-N4	-5.47	116.37	120.20
29	D1	656	A	C5-C6-N6	-5.47	119.32	123.70
29	D1	1183	C	N3-C4-C5	5.47	124.09	121.90
29	D1	2378	C	N1-C2-N3	5.47	123.03	119.20
1	A1	338	C	C6-N1-C1'	-5.47	114.24	120.80
29	B1	73	C	N3-C2-O2	-5.47	118.07	121.90
29	B1	1887	A	N3-C4-N9	-5.47	123.02	127.40
29	B1	2919	A	C4-N9-C1'	5.47	136.15	126.30
35	BD	23	PRO	N-CA-CB	5.47	109.86	103.30
29	D1	101	G	N3-C4-C5	5.47	131.34	128.60
29	D1	1295	G	N9-C4-C5	-5.47	103.21	105.40
29	B1	877	C	C5-C6-N1	5.47	123.73	121.00
29	B1	1507	G	N3-C2-N2	-5.47	116.07	119.90
42	BK	134	PRO	N-CA-CB	5.47	109.86	103.30
1	C1	246	G	C4-N9-C1'	-5.47	119.39	126.50
1	C1	479	C	C2-N3-C4	-5.47	117.17	119.90
29	D1	503	C	C2-N1-C1'	-5.47	112.79	118.80
29	D1	640	U	N3-C4-C5	-5.47	111.32	114.60
29	D1	2637	A	C4-C5-C6	5.47	119.73	117.00
29	D1	3035	A	C4-N9-C1'	5.47	136.14	126.30
1	A1	981	U	C2-N1-C1'	5.46	124.26	117.70
1	A1	1109	G	C4-C5-N7	5.46	112.99	110.80
1	A1	1149	G	C2-N3-C4	5.46	114.63	111.90
29	B1	572	A	N9-C4-C5	-5.46	103.61	105.80
29	B1	607	A	C4-N9-C1'	5.46	136.13	126.30
29	B1	1418	A	C5-N7-C8	5.46	106.63	103.90
29	B1	1677	G	N3-C2-N2	5.46	123.72	119.90
1	C1	373	G	C2-N3-C4	-5.46	109.17	111.90
6	CE	144	PRO	N-CA-CB	5.46	109.86	103.30
29	D1	787	G	C2-N3-C4	-5.46	109.17	111.90
29	D1	907	G	C5-C6-O6	-5.46	125.32	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2951	G	N3-C4-C5	5.46	131.33	128.60
29	B1	873	C	C5-C4-N4	-5.46	116.38	120.20
31	D3	92	A	N1-C2-N3	-5.46	126.57	129.30
36	DE	84	PRO	N-CA-CB	5.46	109.86	103.30
29	B1	2893	C	C2-N3-C4	-5.46	117.17	119.90
29	B1	2982	A	C8-N9-C4	-5.46	103.61	105.80
29	B1	3108	G	C4-C5-C6	-5.46	115.52	118.80
2	CA	35	PRO	N-CA-CB	5.46	109.85	103.30
29	D1	859	G	C4-N9-C1'	5.46	133.60	126.50
29	D1	1146	C	C5-C4-N4	-5.46	116.38	120.20
30	D2	101	G	N3-C4-N9	-5.46	122.72	126.00
29	B1	97	U	N3-C2-O2	5.46	126.02	122.20
29	B1	1751	G	C4-C5-N7	-5.46	108.62	110.80
29	B1	2283	G	N3-C4-C5	5.46	131.33	128.60
29	B1	50	U	N1-C2-N3	5.46	118.17	114.90
29	B1	1357	G	C4-C5-N7	-5.46	108.62	110.80
30	B2	6	C	C2-N1-C1'	5.46	124.81	118.80
29	D1	1060	U	C5-C4-O4	-5.46	122.62	125.90
29	D1	2901	G	C6-C5-N7	-5.46	127.12	130.40
29	D1	3061	G	N3-C4-N9	-5.46	122.72	126.00
30	D2	34	C	N3-C2-O2	-5.46	118.08	121.90
29	B1	865	U	C6-N1-C2	5.46	124.27	121.00
29	B1	921	A	C8-N9-C4	-5.46	103.62	105.80
29	B1	2361	A	N1-C6-N6	-5.46	115.33	118.60
29	B1	3138	U	C5-C6-N1	5.46	125.43	122.70
1	C1	1420	C	C5-C6-N1	5.46	123.73	121.00
29	D1	1072	G	C2-N3-C4	5.46	114.63	111.90
29	D1	2394	G	C4-C5-N7	-5.46	108.62	110.80
29	D1	3069	G	C6-C5-N7	-5.46	127.13	130.40
29	B1	1657	C	N1-C2-O2	5.46	122.17	118.90
29	D1	685	G	N9-C4-C5	-5.46	103.22	105.40
29	D1	3131	U	C2-N3-C4	-5.46	123.73	127.00
29	B1	1452	A	C5-N7-C8	-5.45	101.17	103.90
29	B1	2830	G	C2-N3-C4	-5.45	109.17	111.90
29	B1	2894	C	C5-C6-N1	-5.45	118.27	121.00
2	CA	4	PRO	N-CA-CB	5.45	109.84	103.30
29	D1	1179	A	C6-C5-N7	-5.45	128.48	132.30
29	B1	584	G	N3-C2-N2	-5.45	116.08	119.90
29	B1	2823	G	C4-C5-N7	-5.45	108.62	110.80
29	D1	3325	G	C8-N9-C4	5.45	108.58	106.40
1	A1	373	G	N3-C4-N9	-5.45	122.73	126.00
29	B1	214	G	C4-N9-C1'	-5.45	119.42	126.50

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	B3	51	G	C4-N9-C1'	5.45	133.59	126.50
29	D1	389	A	C6-C5-N7	5.45	136.12	132.30
29	D1	851	C	N3-C4-C5	5.45	124.08	121.90
29	D1	920	A	C8-N9-C4	-5.45	103.62	105.80
29	D1	2278	C	N3-C4-C5	5.45	124.08	121.90
29	D1	3213	A	C5-C6-N6	-5.45	119.34	123.70
29	B1	380	U	C5-C4-O4	5.45	129.17	125.90
29	B1	877	C	N3-C2-O2	-5.45	118.09	121.90
29	B1	2131	A	C4-C5-C6	5.45	119.72	117.00
29	B1	2361	A	C6-N1-C2	-5.45	115.33	118.60
29	D1	561	C	C5-C6-N1	-5.45	118.28	121.00
29	D1	1516	C	N1-C2-O2	-5.45	115.63	118.90
29	D1	2686	A	N1-C6-N6	5.45	121.87	118.60
29	D1	2946	A	N7-C8-N9	5.45	116.52	113.80
29	D1	3232	G	C2-N3-C4	5.45	114.62	111.90
29	B1	2301	U	N1-C2-O2	-5.45	118.99	122.80
31	B3	51	G	N7-C8-N9	5.45	115.82	113.10
29	D1	382	U	N3-C2-O2	5.45	126.01	122.20
29	D1	676	G	N3-C2-N2	5.45	123.71	119.90
29	D1	2752	U	C2-N1-C1'	5.45	124.24	117.70
29	B1	335	G	C5-N7-C8	-5.45	101.58	104.30
29	B1	2134	G	C6-C5-N7	-5.45	127.13	130.40
29	B1	2241	U	N1-C2-N3	5.45	118.17	114.90
29	B1	2527	G	C8-N9-C1'	5.45	134.08	127.00
29	D1	1368	U	C5-C4-O4	-5.45	122.63	125.90
29	D1	2846	U	N1-C2-O2	-5.45	118.99	122.80
29	D1	2895	G	N1-C6-O6	-5.45	116.63	119.90
29	D1	2983	C	N3-C2-O2	-5.45	118.09	121.90
29	D1	3034	C	C6-N1-C2	5.45	122.48	120.30
44	DO	42	PRO	N-CA-CB	5.45	109.83	103.30
1	C1	1633	A	C8-N9-C4	-5.44	103.62	105.80
29	D1	1389	G	C3'-C2'-C1'	5.44	105.86	101.50
29	B1	1048	A	C5-C6-N6	-5.44	119.35	123.70
29	B1	1877	U	C5-C6-N1	5.44	125.42	122.70
1	C1	336	G	N1-C2-N2	-5.44	111.30	116.20
1	C1	1203	A	C4-C5-C6	5.44	119.72	117.00
29	D1	875	G	N3-C4-N9	5.44	129.27	126.00
29	D1	1788	C	C6-N1-C1'	-5.44	114.27	120.80
1	A1	479	C	C2-N1-C1'	-5.44	112.81	118.80
29	B1	340	C	C5-C6-N1	5.44	123.72	121.00
29	B1	832	G	N9-C4-C5	-5.44	103.22	105.40
29	B1	2289	U	C5-C4-O4	-5.44	122.64	125.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	831	G	C8-N9-C4	5.44	108.58	106.40
29	D1	886	C	N3-C4-C5	5.44	124.08	121.90
29	D1	2319	U	N3-C2-O2	-5.44	118.39	122.20
1	A1	1455	G	N3-C4-C5	-5.44	125.88	128.60
29	B1	762	U	N1-C2-O2	-5.44	118.99	122.80
1	C1	1421	A	C4-C5-N7	-5.44	107.98	110.70
29	D1	3035	A	N1-C6-N6	5.44	121.86	118.60
29	B1	589	A	C4-C5-N7	-5.44	107.98	110.70
29	B1	867	G	C2-N3-C4	-5.44	109.18	111.90
29	B1	1301	A	N1-C6-N6	5.44	121.86	118.60
29	B1	2372	A	C5-C6-N1	-5.44	114.98	117.70
1	C1	1127	G	C8-N9-C4	5.44	108.58	106.40
1	C1	1142	A	N1-C6-N6	-5.44	115.34	118.60
11	AJ	35	PRO	N-CA-CB	5.44	109.82	103.30
29	B1	86	G	N3-C4-N9	-5.44	122.74	126.00
35	BD	21	PRO	N-CA-CB	5.44	109.82	103.30
1	C1	1276	U	N3-C2-O2	5.44	126.00	122.20
73	DM	198	PRO	N-CA-CB	5.44	109.82	103.30
1	A1	1438	G	N1-C6-O6	5.43	123.16	119.90
2	AA	152	PRO	N-CA-CB	5.43	109.82	103.30
29	B1	2716	U	C2-N1-C1'	5.43	124.22	117.70
29	B1	3055	U	C5-C6-N1	-5.43	119.98	122.70
29	D1	88	A	N3-C4-C5	5.43	130.60	126.80
29	D1	1312	C	C6-N1-C2	-5.43	118.13	120.30
29	D1	1940	G	C5-C6-N1	5.43	114.22	111.50
30	D2	13	A	N7-C8-N9	-5.43	111.08	113.80
1	A1	1205	C	C2-N1-C1'	5.43	124.78	118.80
1	A1	1673	G	N3-C4-C5	-5.43	125.88	128.60
1	A1	1788	G	N3-C4-C5	5.43	131.32	128.60
29	B1	497	C	C2-N3-C4	-5.43	117.18	119.90
29	B1	1431	G	N9-C4-C5	5.43	107.57	105.40
29	B1	1459	C	N1-C2-O2	-5.43	115.64	118.90
29	B1	2350	C	N1-C2-O2	-5.43	115.64	118.90
29	B1	3101	G	C5-C6-O6	-5.43	125.34	128.60
29	B1	3176	G	C5-C6-O6	5.43	131.86	128.60
29	B1	3246	G	N3-C2-N2	-5.43	116.10	119.90
34	BC	83	PRO	N-CA-CB	5.43	109.82	103.30
1	C1	364	G	N9-C4-C5	5.43	107.57	105.40
1	C1	939	A	N3-C4-C5	-5.43	123.00	126.80
1	C1	1142	A	C5-C6-N1	5.43	120.42	117.70
1	C1	1463	C	N3-C4-C5	5.43	124.07	121.90
29	D1	498	A	C6-N1-C2	5.43	121.86	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1002	A	C2-N3-C4	5.43	113.32	110.60
29	D1	1420	C	C2-N3-C4	-5.43	117.18	119.90
29	D1	3000	A	N3-C4-N9	-5.43	123.05	127.40
29	D1	3005	A	N9-C4-C5	5.43	107.97	105.80
29	D1	3300	U	C6-N1-C1'	5.43	128.81	121.20
29	B1	866	A	C5-N7-C8	-5.43	101.18	103.90
29	B1	1365	G	C8-N9-C4	-5.43	104.23	106.40
29	D1	747	A	C5-C6-N6	-5.43	119.36	123.70
29	D1	1172	G	N1-C2-N3	5.43	127.16	123.90
1	A1	1203	A	N1-C2-N3	5.43	132.01	129.30
29	B1	1415	U	N3-C4-C5	-5.43	111.34	114.60
29	B1	2611	U	N3-C4-C5	-5.43	111.34	114.60
1	C1	943	C	C6-N1-C2	5.43	122.47	120.30
29	D1	873	C	N1-C2-O2	-5.43	115.64	118.90
29	D1	2320	A	C8-N9-C4	5.43	107.97	105.80
29	D1	3046	A	C5-C6-N1	5.43	120.42	117.70
53	DX	34	PRO	N-CA-CB	5.43	109.82	103.30
31	B3	41	A	C8-N9-C4	-5.43	103.63	105.80
1	C1	1512	G	C8-N9-C1'	-5.43	119.94	127.00
29	D1	3373	U	N3-C2-O2	-5.43	118.40	122.20
1	A1	967	A	C8-N9-C4	5.43	107.97	105.80
29	B1	1334	U	N1-C2-O2	-5.43	119.00	122.80
29	B1	1880	U	C6-N1-C2	5.43	124.26	121.00
29	B1	3089	C	C2-N1-C1'	5.43	124.77	118.80
29	B1	3184	A	C8-N9-C1'	-5.43	117.93	127.70
31	B3	113	U	N1-C2-N3	5.43	118.16	114.90
2	CA	104	PRO	N-CA-CB	5.43	109.81	103.30
29	D1	1499	C	C5-C6-N1	-5.43	118.29	121.00
29	B1	3099	C	C5-C4-N4	-5.42	116.40	120.20
1	C1	869	A	C2-N3-C4	5.42	113.31	110.60
1	C1	1541	G	C5-C6-N1	-5.42	108.79	111.50
29	D1	719	U	C6-N1-C2	5.42	124.25	121.00
29	D1	1318	A	C5-C6-N6	-5.42	119.36	123.70
29	D1	1678	G	N3-C4-N9	-5.42	122.75	126.00
29	D1	3140	G	C8-N9-C1'	-5.42	119.95	127.00
31	D3	68	G	N3-C2-N2	-5.42	116.10	119.90
29	B1	1508	C	N3-C2-O2	-5.42	118.10	121.90
29	D1	137	G	C8-N9-C1'	-5.42	119.95	127.00
29	D1	656	A	N3-C4-N9	5.42	131.74	127.40
29	D1	1139	G	N3-C4-C5	5.42	131.31	128.60
29	D1	2398	A	C6-C5-N7	-5.42	128.50	132.30
29	B1	300	G	C6-C5-N7	-5.42	127.15	130.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	419	G	N7-C8-N9	-5.42	110.39	113.10
29	B1	1780	G	C3'-C2'-C1'	5.42	105.84	101.50
50	BU	67	PRO	N-CA-CB	5.42	109.81	103.30
1	C1	1591	C	C6-N1-C1'	5.42	127.31	120.80
7	CF	130	PRO	N-CA-CB	5.42	109.81	103.30
29	D1	1467	A	N7-C8-N9	-5.42	111.09	113.80
29	D1	2897	A	C6-N1-C2	-5.42	115.35	118.60
2	AA	142	PRO	N-CA-CB	5.42	109.80	103.30
1	C1	869	A	C5-C6-N6	-5.42	119.36	123.70
29	D1	515	C	N3-C4-C5	-5.42	119.73	121.90
1	A1	63	G	N7-C8-N9	-5.42	110.39	113.10
1	A1	864	U	C5-C6-N1	5.42	125.41	122.70
29	B1	1628	C	N1-C2-O2	-5.42	115.65	118.90
29	B1	2947	G	C6-C5-N7	5.42	133.65	130.40
29	B1	3173	G	C4-C5-N7	5.42	112.97	110.80
29	B1	3199	G	N3-C2-N2	-5.42	116.11	119.90
29	D1	822	G	N3-C4-C5	5.42	131.31	128.60
29	D1	2607	G	C4-N9-C1'	5.42	133.54	126.50
29	D1	2857	C	C6-N1-C2	5.42	122.47	120.30
29	D1	3200	G	C5-C6-N1	-5.42	108.79	111.50
1	A1	867	G	C5-C6-O6	5.42	131.85	128.60
1	A1	1535	U	C2-N1-C1'	5.42	124.20	117.70
29	B1	2147	A	N3-C4-C5	5.42	130.59	126.80
29	B1	2737	C	C2-N3-C4	-5.42	117.19	119.90
29	D1	1217	A	C5-N7-C8	-5.42	101.19	103.90
29	D1	1403	C	C2-N3-C4	-5.42	117.19	119.90
29	D1	2961	G	C6-C5-N7	-5.42	127.15	130.40
29	B1	1067	U	N3-C4-C5	5.42	117.85	114.60
29	B1	2752	U	C6-N1-C2	-5.42	117.75	121.00
29	D1	744	A	N9-C4-C5	5.42	107.97	105.80
1	A1	1121	C	C6-N1-C1'	5.41	127.30	120.80
29	B1	1047	A	C5-C6-N6	5.41	128.03	123.70
29	B1	1403	C	N3-C4-C5	5.41	124.07	121.90
29	B1	2586	G	N1-C6-O6	-5.41	116.65	119.90
1	C1	114	C	C6-N1-C2	5.41	122.47	120.30
29	D1	509	U	N1-C2-N3	5.41	118.15	114.90
29	D1	1076	C	C6-N1-C1'	-5.41	114.30	120.80
29	D1	1515	A	C6-N1-C2	-5.41	115.35	118.60
30	D2	14	U	C5-C6-N1	5.41	125.41	122.70
29	B1	271	C	C5-C6-N1	5.41	123.71	121.00
29	B1	402	A	N7-C8-N9	5.41	116.51	113.80
29	B1	2149	A	C5-C6-N1	5.41	120.41	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	12	U	C5-C6-N1	-5.41	119.99	122.70
1	A1	565	C	N3-C4-N4	-5.41	114.21	118.00
1	A1	1775	U	N1-C2-O2	-5.41	119.01	122.80
29	B1	74	G	C5-C6-O6	-5.41	125.35	128.60
29	B1	657	A	N3-C4-C5	5.41	130.59	126.80
29	B1	779	G	N1-C6-O6	5.41	123.15	119.90
29	B1	940	G	C4-C5-N7	5.41	112.96	110.80
29	B1	1401	A	C6-N1-C2	5.41	121.85	118.60
1	C1	1205	C	C2-N1-C1'	5.41	124.75	118.80
29	D1	511	G	C5-C6-N1	-5.41	108.79	111.50
29	D1	2296	A	N7-C8-N9	5.41	116.50	113.80
31	D3	92	A	N3-C4-N9	-5.41	123.07	127.40
1	A1	391	A	N3-C4-C5	5.41	130.59	126.80
1	A1	1348	A	C5-C6-N1	-5.41	115.00	117.70
29	B1	2639	G	C4-C5-N7	5.41	112.96	110.80
1	C1	45	U	C3'-C2'-C1'	5.41	105.83	101.50
1	C1	1008	G	C4-N9-C1'	5.41	133.53	126.50
29	D1	2895	G	C6-C5-N7	5.41	133.65	130.40
29	B1	3106	A	C4-C5-N7	5.41	113.40	110.70
7	AF	95	PRO	N-CA-CB	5.41	109.79	103.30
29	B1	731	U	C5-C6-N1	-5.41	120.00	122.70
29	B1	1212	A	C8-N9-C4	-5.41	103.64	105.80
29	B1	1303	A	N1-C2-N3	5.41	132.00	129.30
29	B1	1404	G	C6-C5-N7	-5.41	127.16	130.40
1	C1	315	A	N1-C6-N6	-5.41	115.36	118.60
29	D1	918	C	N1-C2-O2	-5.41	115.66	118.90
29	D1	3045	G	N7-C8-N9	5.41	115.80	113.10
50	DU	67	PRO	N-CA-CB	5.41	109.79	103.30
1	C1	601	A	C5-C6-N6	-5.40	119.38	123.70
29	D1	3099	C	C2-N1-C1'	5.40	124.74	118.80
29	B1	1161	G	C8-N9-C4	-5.40	104.24	106.40
29	B1	2195	C	C5-C4-N4	-5.40	116.42	120.20
29	B1	2412	G	N3-C4-N9	5.40	129.24	126.00
1	C1	1606	C	N1-C2-O2	-5.40	115.66	118.90
29	D1	1156	C	N3-C4-C5	-5.40	119.74	121.90
1	A1	883	C	C2-N1-C1'	5.40	124.74	118.80
1	A1	1220	C	N1-C2-O2	5.40	122.14	118.90
1	A1	1792	G	N3-C4-N9	5.40	129.24	126.00
29	B1	727	G	N1-C6-O6	5.40	123.14	119.90
29	B1	860	G	C8-N9-C1'	-5.40	119.98	127.00
46	BQ	123	PRO	N-CA-CB	5.40	109.78	103.30
1	C1	208	U	C5-C6-N1	-5.40	120.00	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	390	G	C2-N3-C4	-5.40	109.20	111.90
29	D1	2943	G	C8-N9-C4	5.40	108.56	106.40
1	A1	1331	A	N1-C6-N6	-5.40	115.36	118.60
1	A1	1459	C	C4-C5-C6	5.40	120.10	117.40
29	B1	2972	G	C4-N9-C1'	5.40	133.52	126.50
1	A1	1553	G	C4-C5-N7	5.40	112.96	110.80
29	B1	67	A	N9-C4-C5	5.40	107.96	105.80
29	B1	288	C	C4-C5-C6	5.40	120.10	117.40
29	B1	905	U	C2-N3-C4	-5.40	123.76	127.00
1	C1	994	G	C8-N9-C4	5.40	108.56	106.40
29	B1	505	G	C2-N3-C4	-5.39	109.20	111.90
29	B1	1821	U	N3-C2-O2	-5.39	118.42	122.20
29	B1	2671	A	N9-C4-C5	-5.39	103.64	105.80
29	B1	3143	C	N3-C4-C5	-5.39	119.74	121.90
29	D1	45	A	C6-N1-C2	5.39	121.84	118.60
29	D1	55	G	N3-C4-C5	5.39	131.30	128.60
29	D1	883	A	N1-C6-N6	-5.39	115.36	118.60
29	D1	1052	U	N3-C2-O2	5.39	125.98	122.20
29	D1	2940	A	C2-N3-C4	5.39	113.30	110.60
30	D2	119	U	C6-N1-C2	-5.39	117.76	121.00
31	D3	113	U	N1-C2-N3	5.39	118.14	114.90
29	B1	1305	U	C6-N1-C2	5.39	124.23	121.00
1	C1	376	C	C2-N1-C1'	5.39	124.73	118.80
29	D1	1364	C	C5-C6-N1	-5.39	118.30	121.00
29	D1	2270	A	C8-N9-C4	-5.39	103.64	105.80
29	D1	2680	A	N1-C6-N6	5.39	121.84	118.60
29	D1	3220	G	C6-C5-N7	-5.39	127.17	130.40
29	D1	3232	G	C6-C5-N7	5.39	133.64	130.40
16	AO	29	PRO	N-CA-CB	5.39	109.77	103.30
1	C1	572	C	C5-C6-N1	5.39	123.70	121.00
29	D1	575	G	C4-C5-N7	-5.39	108.64	110.80
29	D1	1059	G	N3-C4-N9	-5.39	122.77	126.00
29	D1	2929	C	C2-N1-C1'	5.39	124.73	118.80
29	B1	1000	C	N3-C2-O2	5.39	125.67	121.90
29	D1	1613	A	N1-C6-N6	-5.39	115.37	118.60
29	D1	1318	A	C2-N3-C4	5.39	113.29	110.60
1	A1	341	A	C6-N1-C2	-5.39	115.37	118.60
33	BB	151	PRO	N-CA-CB	5.39	109.76	103.30
1	C1	338	C	C6-N1-C1'	-5.39	114.34	120.80
29	D1	3108	G	C4-C5-C6	-5.39	115.57	118.80
1	A1	1600	A	C8-N9-C4	-5.38	103.65	105.80
29	B1	3084	C	N3-C4-N4	5.38	121.77	118.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1421	A	N9-C4-C5	5.38	107.95	105.80
29	D1	1208	U	C5-C4-O4	5.38	129.13	125.90
1	A1	869	A	C5-C6-N6	-5.38	119.39	123.70
29	B1	3179	U	C4-C5-C6	5.38	122.93	119.70
29	D1	2427	U	N1-C2-O2	-5.38	119.03	122.80
1	A1	406	U	C6-N1-C2	5.38	124.23	121.00
29	B1	404	G	C5-C6-N1	-5.38	108.81	111.50
29	B1	665	A	N1-C6-N6	-5.38	115.37	118.60
29	B1	2689	A	C5-C6-N6	5.38	128.00	123.70
29	B1	3380	U	C5-C4-O4	5.38	129.13	125.90
29	D1	2180	G	C5-C6-N1	5.38	114.19	111.50
30	D2	103	A	C4-C5-N7	5.38	113.39	110.70
29	B1	685	G	N3-C4-N9	5.38	129.23	126.00
1	C1	10	G	C5-C6-N1	-5.38	108.81	111.50
29	B1	504	A	C8-N9-C1'	-5.38	118.02	127.70
29	B1	1877	U	N1-C2-O2	5.38	126.56	122.80
29	B1	2196	C	N3-C4-C5	5.38	124.05	121.90
29	B1	3230	G	N1-C6-O6	-5.38	116.67	119.90
1	C1	1109	G	C6-N1-C2	-5.38	121.87	125.10
29	D1	779	G	C8-N9-C1'	-5.38	120.01	127.00
29	D1	2705	A	C5-C6-N1	5.38	120.39	117.70
29	B1	1473	G	N1-C2-N3	5.38	127.13	123.90
29	B1	3300	U	C6-N1-C2	-5.38	117.77	121.00
29	D1	70	A	C2-N3-C4	5.38	113.29	110.60
29	D1	1194	G	C4-N9-C1'	5.38	133.49	126.50
1	A1	509	G	N9-C4-C5	5.38	107.55	105.40
29	B1	637	C	N1-C2-O2	-5.38	115.67	118.90
29	B1	2807	U	N1-C2-O2	-5.38	119.04	122.80
29	B1	3193	C	C6-N1-C1'	5.38	127.25	120.80
29	B1	3222	U	C5-C6-N1	-5.38	120.01	122.70
29	B1	712	G	N3-C4-N9	5.37	129.22	126.00
29	B1	882	A	C5-C6-N6	5.37	128.00	123.70
29	B1	2559	U	N1-C2-O2	5.37	126.56	122.80
29	B1	2700	G	N1-C6-O6	5.37	123.12	119.90
29	B1	3131	U	C2-N1-C1'	5.37	124.15	117.70
52	BW	66	PRO	N-CA-CB	5.37	109.75	103.30
29	D1	1285	G	C8-N9-C1'	-5.37	120.02	127.00
29	D1	1883	A	C6-N1-C2	-5.37	115.38	118.60
29	D1	2102	U	C2-N1-C1'	-5.37	111.25	117.70
29	D1	2853	A	C5-C6-N6	-5.37	119.40	123.70
29	D1	3393	U	C5-C4-O4	-5.37	122.68	125.90
34	DC	170	PRO	N-CA-CB	5.37	109.75	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	865	U	C5-C6-N1	-5.37	120.01	122.70
29	B1	1480	G	N9-C4-C5	-5.37	103.25	105.40
30	B2	10	C	C6-N1-C2	-5.37	118.15	120.30
1	C1	479	C	N1-C2-O2	-5.37	115.68	118.90
29	D1	1481	A	N1-C6-N6	5.37	121.82	118.60
29	D1	3363	U	N1-C2-N3	-5.37	111.68	114.90
29	B1	1900	A	N1-C6-N6	5.37	121.82	118.60
29	B1	2940	A	C8-N9-C4	-5.37	103.65	105.80
29	D1	3307	A	C6-C5-N7	-5.37	128.54	132.30
29	B1	3103	A	C2-N3-C4	5.37	113.28	110.60
31	B3	44	A	C5-C6-N1	5.37	120.38	117.70
29	D1	1379	G	C2-N3-C4	-5.37	109.22	111.90
29	D1	3108	G	C4-N9-C1'	-5.37	119.52	126.50
29	B1	1891	A	C5-N7-C8	-5.37	101.22	103.90
1	A1	300	A	N1-C6-N6	-5.37	115.38	118.60
1	A1	577	G	N1-C6-O6	5.37	123.12	119.90
29	B1	137	G	C8-N9-C1'	-5.37	120.02	127.00
29	B1	1482	A	C8-N9-C4	-5.37	103.65	105.80
29	B1	1899	G	C8-N9-C4	5.37	108.55	106.40
1	C1	1331	A	N3-C4-C5	-5.37	123.04	126.80
29	D1	506	U	C2-N1-C1'	5.37	124.14	117.70
29	D1	1091	A	C5-C6-N6	-5.37	119.41	123.70
29	D1	1403	C	C5-C6-N1	-5.37	118.32	121.00
1	A1	1046	G	C4-N9-C1'	5.36	133.47	126.50
29	B1	3193	C	C6-N1-C2	-5.36	118.16	120.30
21	CT	206	PRO	N-CA-CB	5.36	109.73	103.30
29	D1	532	A	N1-C6-N6	5.36	121.82	118.60
29	D1	1552	G	N3-C4-N9	5.36	129.22	126.00
29	B1	2643	A	N3-C4-C5	5.36	130.55	126.80
29	B1	3386	G	C4-C5-C6	5.36	122.02	118.80
44	BO	45	PRO	N-CA-CB	5.36	109.73	103.30
1	C1	390	G	C8-N9-C1'	-5.36	120.03	127.00
29	D1	2395	G	C8-N9-C4	-5.36	104.25	106.40
31	D3	87	G	C8-N9-C1'	-5.36	120.03	127.00
29	B1	821	U	C5-C6-N1	-5.36	120.02	122.70
29	B1	3172	A	N1-C2-N3	5.36	131.98	129.30
33	BB	141	PRO	N-CA-CB	5.36	109.73	103.30
29	D1	1277	C	N3-C4-C5	5.36	124.04	121.90
29	D1	1856	C	C5-C6-N1	-5.36	118.32	121.00
29	D1	2680	A	C5-C6-N6	-5.36	119.41	123.70
29	D1	2810	C	C5-C4-N4	-5.36	116.45	120.20
52	DW	116	PRO	N-CA-CB	5.36	109.73	103.30

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	281	G	C6-C5-N7	-5.36	127.18	130.40
29	D1	2364	G	C8-N9-C4	5.36	108.54	106.40
29	B1	2372	A	C4-C5-C6	5.36	119.68	117.00
29	D1	527	A	C5-C6-N1	5.36	120.38	117.70
29	D1	1608	C	C6-N1-C1'	-5.36	114.37	120.80
29	D1	2707	C	C3'-C2'-C1'	5.36	105.79	101.50
29	D1	3205	G	C4-N9-C1'	5.36	133.46	126.50
1	A1	975	C	C6-N1-C2	5.36	122.44	120.30
29	B1	1107	C	C2-N3-C4	-5.36	117.22	119.90
29	B1	2982	A	N9-C4-C5	5.36	107.94	105.80
29	B1	3078	U	C2-N1-C1'	5.36	124.13	117.70
29	D1	2144	A	N1-C6-N6	-5.36	115.39	118.60
7	AF	130	PRO	N-CA-CB	5.35	109.72	103.30
31	B3	68	G	N3-C2-N2	-5.35	116.15	119.90
29	D1	402	A	C5-N7-C8	-5.35	101.22	103.90
2	AA	161	PRO	N-CA-CB	5.35	109.72	103.30
29	B1	2343	C	N1-C2-O2	-5.35	115.69	118.90
29	B1	2869	U	C2-N1-C1'	5.35	124.12	117.70
29	B1	3213	A	C5-C6-N6	-5.35	119.42	123.70
1	C1	590	C	N1-C2-O2	-5.35	115.69	118.90
29	D1	3078	U	N1-C2-N3	-5.35	111.69	114.90
31	D3	33	A	C8-N9-C4	5.35	107.94	105.80
39	DH	99	PRO	N-CA-CB	5.35	109.72	103.30
50	DU	127	PRO	N-CA-CB	5.35	109.72	103.30
29	B1	39	A	N3-C4-C5	5.35	130.55	126.80
30	B2	29	C	N3-C4-C5	5.35	124.04	121.90
1	C1	1145	U	N1-C2-O2	-5.35	119.05	122.80
29	D1	3252	G	C6-N1-C2	-5.35	121.89	125.10
29	B1	576	C	C5-C4-N4	-5.35	116.46	120.20
29	B1	853	G	C4-C5-N7	-5.35	108.66	110.80
29	B1	2247	G	C5-N7-C8	-5.35	101.62	104.30
29	B1	3188	G	C8-N9-C1'	-5.35	120.05	127.00
42	BK	118	PRO	N-CA-CB	5.35	109.72	103.30
29	D1	1401	A	N1-C6-N6	-5.35	115.39	118.60
29	B1	2130	G	C6-C5-N7	-5.35	127.19	130.40
29	B1	2275	A	C5-C6-N1	-5.35	115.03	117.70
29	D1	654	C	C2-N3-C4	-5.35	117.23	119.90
29	D1	1315	U	C5-C4-O4	-5.35	122.69	125.90
31	D3	113	U	O4'-C1'-N1	5.35	112.48	108.20
29	D1	2376	G	C8-N9-C4	-5.35	104.26	106.40
29	B1	1396	C	C5-C4-N4	-5.34	116.46	120.20
29	B1	3097	C	C2-N3-C4	-5.34	117.23	119.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	358	U	C6-N1-C1'	-5.34	113.72	121.20
29	D1	750	G	C8-N9-C4	-5.34	104.26	106.40
1	A1	54	C	N3-C4-C5	5.34	124.04	121.90
1	A1	423	G	N9-C4-C5	5.34	107.54	105.40
29	B1	662	U	N1-C2-O2	5.34	126.54	122.80
29	B1	2326	A	C8-N9-C4	-5.34	103.66	105.80
1	C1	1639	C	N3-C2-O2	5.34	125.64	121.90
29	D1	884	A	N9-C4-C5	-5.34	103.66	105.80
29	D1	890	C	C5-C6-N1	-5.34	118.33	121.00
29	D1	2184	U	C5-C4-O4	-5.34	122.70	125.90
42	DK	118	PRO	N-CA-CB	5.34	109.71	103.30
1	A1	1450	U	N3-C2-O2	-5.34	118.46	122.20
29	B1	338	A	C6-N1-C2	-5.34	115.40	118.60
29	B1	992	A	C5-C6-N6	5.34	127.97	123.70
1	C1	1653	C	C5-C6-N1	-5.34	118.33	121.00
29	B1	1414	G	N3-C4-N9	-5.34	122.80	126.00
29	D1	3108	G	C5-C6-N1	5.34	114.17	111.50
35	DD	75	PRO	N-CA-CB	5.34	109.70	103.30
1	A1	408	C	C5-C4-N4	-5.34	116.46	120.20
1	A1	517	U	N3-C2-O2	5.34	125.94	122.20
1	A1	1620	C	C6-N1-C1'	-5.34	114.40	120.80
29	B1	117	U	C2-N3-C4	-5.34	123.80	127.00
29	B1	812	G	N3-C4-C5	5.34	131.27	128.60
29	D1	3007	U	C2-N1-C1'	5.34	124.11	117.70
29	B1	2377	G	C4-C5-N7	-5.33	108.67	110.80
29	B1	2780	A	C4-C5-C6	5.33	119.67	117.00
29	B1	3303	G	C6-N1-C2	-5.33	121.90	125.10
29	D1	1258	U	C5-C4-O4	5.33	129.10	125.90
1	A1	602	U	C2-N1-C1'	5.33	124.10	117.70
29	B1	325	A	N7-C8-N9	5.33	116.47	113.80
29	B1	707	U	C6-N1-C2	5.33	124.20	121.00
29	B1	1217	A	C6-N1-C2	-5.33	115.40	118.60
29	B1	1552	G	N1-C6-O6	5.33	123.10	119.90
29	B1	3391	A	C5-C6-N1	5.33	120.37	117.70
1	C1	287	G	N3-C4-N9	5.33	129.20	126.00
1	C1	456	A	C5-C6-N1	5.33	120.37	117.70
29	D1	380	U	N3-C2-O2	5.33	125.93	122.20
29	D1	1089	G	N3-C2-N2	-5.33	116.17	119.90
29	D1	2718	U	C5-C6-N1	-5.33	120.03	122.70
29	B1	2153	U	C2-N3-C4	-5.33	123.80	127.00
31	B3	44	A	C6-N1-C2	-5.33	115.40	118.60
53	BX	34	PRO	N-CA-CB	5.33	109.70	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	659	G	C8-N9-C1'	-5.33	120.07	127.00
29	D1	2684	C	C5-C4-N4	-5.33	116.47	120.20
29	D1	2699	G	N1-C6-O6	5.33	123.10	119.90
29	B1	86	G	C4-C5-N7	-5.33	108.67	110.80
29	B1	616	G	N1-C6-O6	5.33	123.10	119.90
29	D1	3035	A	N1-C2-N3	5.33	131.97	129.30
29	B1	1001	G	N7-C8-N9	5.33	115.76	113.10
29	B1	2341	A	N7-C8-N9	-5.33	111.14	113.80
29	B1	2943	G	C5-N7-C8	-5.33	101.64	104.30
29	B1	3177	G	C2-N3-C4	-5.33	109.23	111.90
29	D1	377	A	N1-C6-N6	5.33	121.80	118.60
33	BB	188	LYS	N-CA-C	-5.33	96.62	111.00
45	BP	109	PRO	N-CA-CB	5.33	109.69	103.30
1	C1	1558	U	C6-N1-C2	-5.33	117.80	121.00
29	D1	387	A	N3-C4-N9	-5.33	123.14	127.40
29	D1	756	U	C5-C4-O4	-5.33	122.70	125.90
29	D1	775	A	N1-C6-N6	5.33	121.80	118.60
29	D1	1177	G	C6-C5-N7	-5.33	127.20	130.40
29	D1	1321	G	N1-C2-N3	5.33	127.10	123.90
29	B1	315	C	C2-N1-C1'	5.33	124.66	118.80
29	B1	432	G	C6-C5-N7	-5.33	127.20	130.40
1	C1	1073	G	C6-C5-N7	-5.33	127.20	130.40
29	D1	389	A	C4-C5-N7	-5.33	108.04	110.70
29	D1	615	U	N3-C4-O4	5.33	123.13	119.40
29	D1	788	C	C4-C5-C6	5.33	120.06	117.40
29	D1	904	A	N3-C4-C5	5.33	130.53	126.80
29	B1	662	U	N3-C2-O2	-5.32	118.47	122.20
29	B1	1431	G	C6-N1-C2	-5.32	121.91	125.10
29	B1	1452	A	C5-C6-N6	-5.32	119.44	123.70
29	B1	3218	A	O4'-C1'-N9	5.32	112.46	108.20
29	D1	944	C	N3-C4-C5	5.32	124.03	121.90
29	D1	1322	U	C2-N3-C4	5.32	130.19	127.00
29	D1	2912	G	C5-C6-O6	-5.32	125.41	128.60
29	D1	3059	G	N1-C6-O6	5.32	123.09	119.90
1	A1	625	C	C6-N1-C1'	-5.32	114.41	120.80
1	A1	1611	A	C5-N7-C8	-5.32	101.24	103.90
29	B1	597	G	N9-C4-C5	-5.32	103.27	105.40
29	B1	2342	U	C6-N1-C2	5.32	124.19	121.00
1	C1	169	A	N1-C6-N6	5.32	121.79	118.60
1	C1	1658	G	N3-C4-C5	5.32	131.26	128.60
29	D1	3180	A	C5-C6-N6	-5.32	119.44	123.70
1	A1	1139	A	C8-N9-C4	5.32	107.93	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1004	U	N3-C4-O4	5.32	123.12	119.40
29	B1	2700	G	N9-C4-C5	-5.32	103.27	105.40
1	C1	426	G	N3-C2-N2	5.32	123.62	119.90
1	C1	1110	G	N1-C6-O6	-5.32	116.71	119.90
1	C1	1640	C	N3-C4-C5	5.32	124.03	121.90
29	D1	982	C	C2-N1-C1'	5.32	124.65	118.80
29	D1	1734	G	C5-C6-O6	-5.32	125.41	128.60
29	D1	2882	U	N3-C4-O4	5.32	123.12	119.40
29	B1	417	A	C8-N9-C4	5.32	107.93	105.80
29	B1	524	U	C3'-C2'-C1'	5.32	105.75	101.50
29	B1	651	G	N1-C2-N2	-5.32	111.41	116.20
29	D1	1686	U	N1-C2-N3	-5.32	111.71	114.90
29	B1	70	A	N7-C8-N9	5.32	116.46	113.80
29	B1	409	A	N7-C8-N9	-5.32	111.14	113.80
29	D1	904	A	C5-C6-N1	-5.32	115.04	117.70
29	D1	2338	C	N3-C4-C5	5.32	124.03	121.90
29	D1	2353	G	C5-C6-O6	-5.32	125.41	128.60
30	D2	10	C	C5-C6-N1	5.32	123.66	121.00
1	A1	1385	G	C8-N9-C4	5.32	108.53	106.40
29	B1	624	G	N9-C4-C5	-5.32	103.27	105.40
29	B1	674	G	N3-C4-C5	5.32	131.26	128.60
29	B1	1133	A	C5-C6-N6	5.32	127.95	123.70
29	B1	1885	U	C6-N1-C2	5.32	124.19	121.00
29	B1	2246	G	N3-C4-N9	5.32	129.19	126.00
1	C1	1144	U	C5-C6-N1	-5.32	120.04	122.70
1	C1	1549	C	C5-C6-N1	-5.32	118.34	121.00
1	C1	1661	U	C2-N1-C1'	-5.32	111.32	117.70
29	D1	2650	U	C6-N1-C1'	5.32	128.64	121.20
29	D1	3321	C	C6-N1-C2	-5.32	118.17	120.30
29	D1	3332	U	C5-C4-O4	5.32	129.09	125.90
1	A1	1789	G	N9-C4-C5	-5.31	103.28	105.40
29	B1	1472	U	C2-N3-C4	-5.31	123.81	127.00
1	C1	391	A	C8-N9-C4	5.31	107.92	105.80
1	C1	1132	A	N9-C4-C5	-5.31	103.67	105.80
1	C1	1417	A	N1-C6-N6	5.31	121.79	118.60
29	D1	730	C	C6-N1-C2	-5.31	118.17	120.30
29	D1	1045	C	N3-C2-O2	5.31	125.62	121.90
29	D1	1188	U	N3-C4-C5	5.31	117.79	114.60
29	D1	2618	G	C4-C5-N7	-5.31	108.67	110.80
29	D1	2918	G	N9-C4-C5	5.31	107.53	105.40
29	D1	3199	G	C5-C6-N1	-5.31	108.84	111.50
44	DO	74	PRO	N-CA-CB	5.31	109.67	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1303	A	N3-C4-N9	-5.31	123.15	127.40
29	D1	112	U	N1-C2-O2	-5.31	119.08	122.80
29	B1	1363	A	N3-C4-C5	5.31	130.52	126.80
29	B1	1522	U	C6-N1-C1'	-5.31	113.77	121.20
29	B1	3221	C	N3-C4-N4	5.31	121.72	118.00
29	D1	125	C	C5-C4-N4	-5.31	116.48	120.20
29	D1	744	A	C5-N7-C8	5.31	106.55	103.90
29	D1	2113	A	C8-N9-C4	5.31	107.92	105.80
29	D1	3188	G	N3-C4-N9	5.31	129.19	126.00
29	B1	706	A	C5-C6-N1	-5.31	115.05	117.70
29	B1	726	G	C4-C5-C6	5.31	121.98	118.80
29	B1	1657	C	N3-C2-O2	-5.31	118.19	121.90
29	B1	2687	G	N3-C4-C5	-5.31	125.95	128.60
29	B1	3181	C	N3-C2-O2	5.31	125.62	121.90
29	D1	74	G	C4-C5-N7	5.31	112.92	110.80
29	D1	137	G	C4-N9-C1'	5.31	133.40	126.50
29	D1	1063	G	C8-N9-C1'	5.31	133.90	127.00
29	D1	1368	U	N3-C4-O4	5.31	123.11	119.40
29	D1	1382	G	N3-C4-C5	5.31	131.25	128.60
1	A1	1348	A	C3'-C2'-C1'	-5.31	97.25	101.50
1	C1	621	A	N7-C8-N9	-5.31	111.15	113.80
29	D1	364	G	N3-C4-N9	5.31	129.18	126.00
29	D1	687	U	C2-N3-C4	-5.31	123.82	127.00
29	D1	1065	A	C5-C6-N1	5.31	120.35	117.70
30	D2	93	C	N3-C4-N4	5.31	121.71	118.00
1	A1	1633	A	C8-N9-C4	-5.30	103.68	105.80
29	B1	120	G	C6-C5-N7	5.30	133.58	130.40
1	C1	1204	A	C8-N9-C4	5.30	107.92	105.80
29	D1	185	C	C6-N1-C2	5.30	122.42	120.30
29	D1	432	G	C5-C6-O6	-5.30	125.42	128.60
29	D1	1703	U	N3-C2-O2	-5.30	118.49	122.20
29	D1	2117	A	N7-C8-N9	-5.30	111.15	113.80
29	D1	2120	A	C5-C6-N1	-5.30	115.05	117.70
29	D1	1010	G	C5-N7-C8	-5.30	101.65	104.30
29	D1	1501	U	C6-N1-C2	5.30	124.18	121.00
1	A1	1645	G	C4-C5-N7	5.30	112.92	110.80
29	B1	712	G	C8-N9-C4	5.30	108.52	106.40
29	B1	2940	A	N9-C4-C5	5.30	107.92	105.80
29	B1	3213	A	C4-C5-N7	5.30	113.35	110.70
30	B2	77	G	N3-C2-N2	5.30	123.61	119.90
29	D1	914	A	C5-C6-N1	5.30	120.35	117.70
29	D1	1903	U	C5-C6-N1	5.30	125.35	122.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2663	G	C4-C5-N7	5.30	112.92	110.80
29	D1	2697	A	C5-C6-N6	5.30	127.94	123.70
29	D1	3177	G	C2-N3-C4	-5.30	109.25	111.90
31	D3	51	G	C8-N9-C1'	-5.30	120.11	127.00
1	A1	1431	C	N1-C2-O2	5.30	122.08	118.90
29	B1	703	G	N3-C4-N9	-5.30	122.82	126.00
47	BR	60	PRO	N-CA-CB	5.30	109.66	103.30
29	D1	304	G	C4-N9-C1'	5.30	133.39	126.50
29	D1	779	G	C4-N9-C1'	5.30	133.39	126.50
29	D1	1151	U	C4-C5-C6	5.30	122.88	119.70
29	D1	1374	G	N1-C2-N3	5.30	127.08	123.90
29	B1	873	C	N3-C4-N4	5.30	121.71	118.00
29	B1	1376	C	N1-C2-N3	5.30	122.91	119.20
29	D1	712	G	N1-C6-O6	5.30	123.08	119.90
30	D2	96	U	C2-N1-C1'	-5.30	111.34	117.70
29	B1	1178	G	C8-N9-C4	-5.30	104.28	106.40
29	B1	2890	A	N7-C8-N9	5.29	116.45	113.80
52	BW	52	PRO	N-CA-CB	5.29	109.66	103.30
1	C1	980	G	C8-N9-C4	-5.29	104.28	106.40
1	C1	1126	G	N3-C2-N2	-5.29	116.19	119.90
29	D1	857	G	C3'-C2'-C1'	5.29	105.74	101.50
29	D1	1410	U	C6-N1-C2	5.29	124.18	121.00
29	D1	2352	A	C5-N7-C8	-5.29	101.25	103.90
29	B1	437	G	C6-C5-N7	5.29	133.58	130.40
29	B1	2810	C	C5-C4-N4	-5.29	116.49	120.20
1	C1	17	C	C2-N1-C1'	5.29	124.62	118.80
1	C1	351	C	N1-C2-O2	-5.29	115.72	118.90
1	C1	1658	G	N9-C4-C5	-5.29	103.28	105.40
29	D1	529	A	C6-C5-N7	5.29	136.00	132.30
29	D1	1176	C	C6-N1-C2	-5.29	118.18	120.30
29	D1	2117	A	C8-N9-C4	5.29	107.92	105.80
29	D1	2633	U	N1-C2-O2	-5.29	119.09	122.80
29	D1	3012	A	N9-C4-C5	5.29	107.92	105.80
29	B1	1151	U	C2-N3-C4	5.29	130.18	127.00
29	D1	1232	C	C6-N1-C2	-5.29	118.18	120.30
1	C1	1291	G	N9-C4-C5	-5.29	103.28	105.40
29	D1	640	U	C6-N1-C1'	5.29	128.61	121.20
29	D1	3188	G	C8-N9-C1'	-5.29	120.12	127.00
29	B1	353	G	C8-N9-C4	5.29	108.52	106.40
29	B1	428	A	C5-C6-N1	-5.29	115.06	117.70
29	B1	500	C	N3-C4-N4	5.29	121.70	118.00
29	B1	1898	G	N3-C4-N9	-5.29	122.83	126.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3109	G	C5-C6-N1	5.29	114.14	111.50
29	B1	3207	U	N3-C4-C5	5.29	117.77	114.60
29	D1	511	G	C4-C5-N7	-5.29	108.69	110.80
29	D1	1097	G	C6-C5-N7	5.29	133.57	130.40
29	D1	1124	U	C6-N1-C1'	-5.29	113.80	121.20
29	D1	2920	U	C2-N3-C4	-5.29	123.83	127.00
35	DD	126	ILE	N-CA-C	-5.29	96.72	111.00
29	B1	524	U	C5-C4-O4	5.29	129.07	125.90
29	D1	89	A	C8-N9-C4	5.29	107.92	105.80
29	B1	2702	A	N7-C8-N9	5.29	116.44	113.80
30	B2	97	A	N1-C6-N6	-5.29	115.43	118.60
36	BE	251	PRO	N-CA-CB	5.29	109.64	103.30
30	B2	65	G	N3-C2-N2	5.28	123.60	119.90
29	D1	1331	U	C2-N3-C4	-5.28	123.83	127.00
29	B1	3106	A	N9-C4-C5	-5.28	103.69	105.80
29	D1	370	U	C6-N1-C1'	5.28	128.59	121.20
29	D1	3200	G	C4-C5-N7	-5.28	108.69	110.80
1	A1	1761	U	C4-C5-C6	5.28	122.87	119.70
29	B1	2699	G	N3-C4-C5	5.28	131.24	128.60
29	B1	3184	A	C4-N9-C1'	5.28	135.80	126.30
1	C1	890	C	C6-N1-C1'	5.28	127.14	120.80
29	D1	987	U	N1-C2-N3	5.28	118.07	114.90
29	D1	2350	C	N1-C2-O2	-5.28	115.73	118.90
29	D1	3300	U	N1-C2-O2	5.28	126.50	122.80
1	A1	79	C	C6-N1-C2	-5.28	118.19	120.30
29	D1	1285	G	N9-C4-C5	-5.28	103.29	105.40
48	DS	26	PRO	N-CA-CB	5.28	109.64	103.30
29	B1	171	G	N9-C4-C5	-5.28	103.29	105.40
29	B1	3220	G	N3-C4-C5	-5.28	125.96	128.60
29	B1	3278	C	N3-C4-C5	-5.28	119.79	121.90
3	CB	227	PRO	N-CA-CB	5.28	109.63	103.30
29	D1	95	A	N7-C8-N9	-5.28	111.16	113.80
29	D1	744	A	C5-C6-N1	5.28	120.34	117.70
29	D1	2334	U	C2-N1-C1'	5.28	124.03	117.70
29	D1	2362	C	C5-C4-N4	-5.28	116.51	120.20
29	D1	3370	A	C8-N9-C4	5.28	107.91	105.80
1	A1	1135	U	C5-C6-N1	-5.28	120.06	122.70
1	A1	1220	C	C5-C4-N4	-5.28	116.51	120.20
29	B1	227	G	N1-C6-O6	5.28	123.06	119.90
29	B1	588	G	C4-C5-C6	5.28	121.97	118.80
29	B1	1585	C	N1-C2-O2	-5.28	115.73	118.90
29	D1	432	G	C4-C5-N7	5.28	112.91	110.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1377	G	C4-C5-N7	-5.28	108.69	110.80
29	D1	3369	G	C4-C5-N7	-5.28	108.69	110.80
29	B1	2993	G	C2-N3-C4	5.27	114.54	111.90
29	D1	402	A	C4-C5-N7	5.27	113.34	110.70
29	D1	3001	C	C5-C6-N1	-5.27	118.36	121.00
29	B1	1458	U	N1-C2-N3	5.27	118.06	114.90
29	B1	1610	G	C8-N9-C4	-5.27	104.29	106.40
29	B1	2734	A	C6-N1-C2	5.27	121.76	118.60
29	B1	2899	C	C6-N1-C2	-5.27	118.19	120.30
29	D1	92	G	C5-N7-C8	-5.27	101.66	104.30
29	D1	918	C	C6-N1-C2	5.27	122.41	120.30
29	D1	2651	G	N3-C4-C5	5.27	131.24	128.60
29	D1	3374	U	N3-C4-C5	5.27	117.76	114.60
30	D2	82	G	C8-N9-C4	5.27	108.51	106.40
34	DC	82	PRO	N-CA-CB	5.27	109.63	103.30
29	D1	1175	C	C2-N1-C1'	-5.27	113.00	118.80
1	A1	575	C	C6-N1-C2	5.27	122.41	120.30
1	A1	1122	G	C8-N9-C4	5.27	108.51	106.40
29	B1	1803	C	C2-N3-C4	-5.27	117.27	119.90
29	B1	1848	G	N1-C6-O6	5.27	123.06	119.90
29	B1	2663	G	C5-C6-O6	5.27	131.76	128.60
30	B2	14	U	N3-C4-C5	-5.27	111.44	114.60
1	C1	1560	U	C5-C4-O4	5.27	129.06	125.90
1	C1	1613	U	N3-C2-O2	-5.27	118.51	122.20
29	D1	608	A	C3'-C2'-C1'	-5.27	97.28	101.50
29	D1	1462	A	N1-C6-N6	5.27	121.76	118.60
1	A1	1729	C	C2-N3-C4	-5.27	117.27	119.90
29	B1	345	G	C5-C6-O6	5.27	131.76	128.60
29	B1	1750	A	C8-N9-C4	-5.27	103.69	105.80
38	BG	96	PRO	N-CA-CB	5.27	109.62	103.30
2	CA	142	PRO	N-CA-CB	5.27	109.62	103.30
29	D1	498	A	N1-C2-N3	-5.27	126.67	129.30
29	D1	2738	A	C5-C6-N1	5.27	120.33	117.70
1	A1	1166	A	C5-C6-N1	5.26	120.33	117.70
29	B1	437	G	C4-C5-N7	-5.26	108.69	110.80
29	B1	625	G	N3-C4-C5	5.26	131.23	128.60
29	B1	712	G	N1-C6-O6	5.26	123.06	119.90
29	B1	2671	A	N3-C4-N9	5.26	131.61	127.40
29	B1	2891	U	C5-C4-O4	5.26	129.06	125.90
1	C1	1568	C	N3-C4-C5	-5.26	119.79	121.90
29	D1	712	G	C4-C5-N7	5.26	112.91	110.80
29	D1	1342	C	N3-C2-O2	5.26	125.58	121.90

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DD	32	PRO	N-CA-CB	5.26	109.62	103.30
29	B1	885	U	C6-N1-C2	5.26	124.16	121.00
1	C1	1386	G	N1-C6-O6	5.26	123.06	119.90
29	B1	514	G	N3-C2-N2	-5.26	116.22	119.90
29	B1	671	U	C6-N1-C2	5.26	124.16	121.00
29	B1	2342	U	C2-N1-C1'	-5.26	111.39	117.70
29	D1	1288	U	N3-C2-O2	5.26	125.88	122.20
29	D1	1431	G	C5-N7-C8	5.26	106.93	104.30
29	D1	2527	G	N9-C4-C5	5.26	107.50	105.40
29	B1	711	A	C8-N9-C4	5.26	107.90	105.80
29	B1	753	C	N3-C4-C5	5.26	124.00	121.90
29	B1	900	G	N7-C8-N9	-5.26	110.47	113.10
29	B1	1851	G	N3-C4-N9	5.26	129.16	126.00
29	B1	2303	A	C5-C6-N1	5.26	120.33	117.70
29	B1	3030	G	C3'-C2'-C1'	5.26	105.71	101.50
1	C1	1456	C	C2-N1-C1'	-5.26	113.01	118.80
29	D1	1179	A	N1-C6-N6	5.26	121.76	118.60
29	D1	3097	C	C2-N1-C1'	-5.26	113.01	118.80
29	D1	3230	G	N3-C4-C5	-5.26	125.97	128.60
46	DQ	143	PRO	N-CA-CB	5.26	109.61	103.30
1	A1	601	A	C5-C6-N6	-5.26	119.49	123.70
29	B1	3332	U	C6-N1-C1'	5.26	128.56	121.20
29	D1	120	G	N3-C4-N9	-5.26	122.84	126.00
30	D2	65	G	N3-C4-N9	5.26	129.16	126.00
1	A1	825	U	N3-C4-C5	-5.26	111.45	114.60
29	B1	30	G	N1-C6-O6	5.26	123.05	119.90
29	B1	422	A	N7-C8-N9	-5.26	111.17	113.80
29	B1	529	A	C4-C5-C6	-5.26	114.37	117.00
29	B1	1357	G	N9-C4-C5	5.26	107.50	105.40
1	C1	565	C	N3-C4-N4	-5.26	114.32	118.00
29	D1	994	G	C5-C6-N1	5.26	114.13	111.50
29	D1	2687	G	N1-C6-O6	-5.26	116.75	119.90
29	D1	3055	U	C5-C6-N1	-5.26	120.07	122.70
1	A1	112	A	C3'-C2'-C1'	5.25	105.70	101.50
29	B1	137	G	C4-N9-C1'	5.25	133.33	126.50
29	B1	1339	C	N3-C2-O2	-5.25	118.22	121.90
31	B3	51	G	C8-N9-C4	-5.25	104.30	106.40
1	C1	1139	A	C5-C6-N6	-5.25	119.50	123.70
29	D1	2690	G	C4-N9-C1'	-5.25	119.67	126.50
29	B1	149	U	C2-N1-C1'	5.25	124.00	117.70
29	B1	308	A	C2-N3-C4	-5.25	107.97	110.60
29	B1	650	C	C2-N1-C1'	5.25	124.58	118.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1097	G	C5-N7-C8	5.25	106.93	104.30
29	D1	1317	A	C5-C6-N1	-5.25	115.07	117.70
29	D1	1951	C	C4-C5-C6	5.25	120.03	117.40
29	D1	3041	U	N3-C4-O4	-5.25	115.72	119.40
1	A1	481	A	C5-C6-N6	5.25	127.90	123.70
1	A1	802	G	N3-C4-N9	-5.25	122.85	126.00
29	B1	1361	U	N3-C4-O4	5.25	123.08	119.40
29	B1	2362	C	C6-N1-C2	5.25	122.40	120.30
29	D1	2354	C	C4-C5-C6	5.25	120.03	117.40
29	D1	2556	C	N1-C2-O2	5.25	122.05	118.90
29	D1	2823	G	N3-C4-C5	5.25	131.23	128.60
29	D1	3019	U	C5-C4-O4	-5.25	122.75	125.90
1	A1	1438	G	C5-C6-O6	-5.25	125.45	128.60
29	B1	431	U	C2-N3-C4	-5.25	123.85	127.00
29	D1	1402	C	C6-N1-C2	5.25	122.40	120.30
29	D1	1887	A	N3-C4-C5	5.25	130.47	126.80
29	D1	2551	U	C5-C6-N1	5.25	125.33	122.70
1	A1	1127	G	N1-C6-O6	5.25	123.05	119.90
1	A1	1620	C	C5-C6-N1	5.25	123.62	121.00
29	B1	54	C	C5-C6-N1	-5.25	118.38	121.00
29	B1	1063	G	N3-C4-N9	-5.25	122.85	126.00
29	B1	1307	G	C6-C5-N7	-5.25	127.25	130.40
1	C1	373	G	N3-C4-C5	5.25	131.22	128.60
29	D1	613	G	N1-C2-N2	-5.25	111.48	116.20
29	D1	1431	G	N3-C4-C5	-5.25	125.98	128.60
29	D1	1641	U	N1-C2-O2	-5.25	119.13	122.80
29	D1	2354	C	N3-C2-O2	-5.25	118.23	121.90
29	D1	2718	U	C2-N3-C4	-5.25	123.85	127.00
29	D1	2846	U	C2-N3-C4	-5.25	123.85	127.00
38	DG	139	PRO	N-CA-CB	5.25	109.60	103.30
40	DI	92	TYR	N-CA-C	5.25	125.17	111.00
1	A1	365	G	C5-C6-O6	-5.25	125.45	128.60
29	B1	424	G	C4-N9-C1'	5.25	133.32	126.50
29	B1	585	A	N1-C6-N6	-5.25	115.45	118.60
29	B1	891	G	C2-N3-C4	-5.25	109.28	111.90
29	B1	901	G	C4-C5-N7	-5.25	108.70	110.80
29	B1	1194	G	N7-C8-N9	5.25	115.72	113.10
29	B1	1422	G	N1-C6-O6	5.25	123.05	119.90
29	B1	1545	A	C8-N9-C4	5.25	107.90	105.80
29	B1	2859	U	N3-C2-O2	5.25	125.87	122.20
1	C1	1077	C	N3-C2-O2	-5.25	118.23	121.90
29	D1	1477	A	C6-N1-C2	5.25	121.75	118.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2369	G	C6-C5-N7	5.25	133.55	130.40
29	D1	3018	C	C2-N1-C1'	-5.25	113.03	118.80
29	D1	3304	U	N3-C2-O2	5.25	125.87	122.20
29	B1	2194	G	N7-C8-N9	-5.25	110.48	113.10
29	B1	2790	A	N1-C6-N6	-5.25	115.45	118.60
29	B1	3227	A	C4-C5-C6	-5.25	114.38	117.00
29	D1	1493	G	N1-C6-O6	-5.25	116.75	119.90
34	DC	33	PRO	N-CA-CB	5.25	109.59	103.30
1	A1	535	A	C5-C6-N1	-5.24	115.08	117.70
1	A1	1463	C	N3-C4-C5	5.24	124.00	121.90
29	B1	32	U	N1-C2-N3	5.24	118.05	114.90
29	B1	431	U	C5-C6-N1	-5.24	120.08	122.70
29	D1	45	A	C2-N3-C4	-5.24	107.98	110.60
29	D1	1507	G	N9-C4-C5	5.24	107.50	105.40
29	D1	1834	U	N3-C4-C5	-5.24	111.45	114.60
29	D1	2719	U	C5-C4-O4	5.24	129.05	125.90
29	D1	3047	U	C3'-C2'-C1'	5.24	105.69	101.50
29	B1	2307	G	C2-N3-C4	-5.24	109.28	111.90
29	B1	2875	U	C2-N1-C1'	5.24	123.99	117.70
1	C1	867	G	C5-C6-O6	5.24	131.75	128.60
1	C1	1791	A	N9-C4-C5	-5.24	103.70	105.80
29	D1	2835	U	C6-N1-C1'	-5.24	113.86	121.20
29	B1	502	U	C6-N1-C2	5.24	124.14	121.00
29	B1	633	C	N1-C2-O2	-5.24	115.76	118.90
29	B1	2335	G	C5-C6-N1	5.24	114.12	111.50
29	B1	3334	U	C5-C4-O4	-5.24	122.76	125.90
43	BN	54	PRO	N-CA-CB	5.24	109.59	103.30
1	C1	1030	A	C8-N9-C4	5.24	107.90	105.80
29	D1	45	A	C5-C6-N1	-5.24	115.08	117.70
29	D1	1050	U	C6-N1-C2	5.24	124.14	121.00
29	D1	1428	A	C8-N9-C4	5.24	107.90	105.80
29	B1	45	A	C2-N3-C4	-5.24	107.98	110.60
29	B1	612	U	N3-C2-O2	5.24	125.87	122.20
29	B1	949	C	N1-C2-N3	5.24	122.87	119.20
29	B1	2513	U	C5-C4-O4	-5.24	122.76	125.90
31	B3	68	G	N1-C2-N2	5.24	120.91	116.20
29	D1	9	U	N1-C2-O2	5.24	126.47	122.80
29	D1	826	G	C5-C6-O6	-5.24	125.46	128.60
29	D1	2637	A	C4-C5-N7	-5.24	108.08	110.70
29	D1	2650	U	C2-N1-C1'	-5.24	111.42	117.70
29	B1	3300	U	N1-C2-O2	5.24	126.47	122.80
29	D1	1226	G	C6-C5-N7	-5.24	127.26	130.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3130	A	C6-C5-N7	-5.24	128.63	132.30
1	A1	1126	G	N3-C2-N2	-5.24	116.23	119.90
29	B1	1173	U	C5-C6-N1	-5.24	120.08	122.70
29	B1	1583	A	N9-C4-C5	5.24	107.89	105.80
29	B1	1860	G	C5-C6-N1	5.24	114.12	111.50
29	B1	3263	G	C5-C6-O6	5.24	131.74	128.60
31	B3	11	C	N1-C2-O2	5.24	122.04	118.90
1	C1	59	C	N1-C2-O2	5.24	122.04	118.90
29	D1	244	G	C6-C5-N7	-5.24	127.26	130.40
29	D1	1168	U	C2-N1-C1'	-5.24	111.42	117.70
29	D1	1227	C	C6-N1-C2	-5.24	118.21	120.30
29	D1	1825	G	N3-C4-N9	-5.24	122.86	126.00
29	D1	2388	U	N1-C2-O2	-5.24	119.14	122.80
29	D1	3205	G	C4-C5-N7	-5.24	108.71	110.80
29	D1	1111	U	N3-C2-O2	5.23	125.86	122.20
29	D1	1661	G	N3-C4-C5	-5.23	125.98	128.60
29	D1	2411	U	C5-C4-O4	5.23	129.04	125.90
29	D1	2689	A	C4-C5-C6	5.23	119.62	117.00
29	B1	334	A	C8-N9-C4	5.23	107.89	105.80
29	B1	410	U	C4-C5-C6	5.23	122.84	119.70
29	B1	720	A	N7-C8-N9	5.23	116.42	113.80
29	B1	2135	U	C5-C6-N1	-5.23	120.08	122.70
29	B1	2748	A	C2-N3-C4	-5.23	107.98	110.60
1	C1	1745	G	C2-N3-C4	5.23	114.52	111.90
29	D1	42	C	C6-N1-C2	5.23	122.39	120.30
29	D1	3123	A	N7-C8-N9	5.23	116.42	113.80
29	D1	3242	G	N9-C4-C5	5.23	107.49	105.40
29	B1	1384	U	C4-C5-C6	-5.23	116.56	119.70
29	B1	2395	G	C5-N7-C8	-5.23	101.69	104.30
29	B1	2963	C	C2-N3-C4	-5.23	117.28	119.90
1	C1	152	U	C5-C6-N1	-5.23	120.08	122.70
1	C1	883	C	C2-N1-C1'	5.23	124.55	118.80
29	D1	345	G	C2-N3-C4	-5.23	109.28	111.90
29	D1	2700	G	C4-N9-C1'	5.23	133.30	126.50
29	D1	3099	C	C5-C6-N1	5.23	123.61	121.00
43	DN	14	LEU	N-CA-C	5.23	125.12	111.00
1	A1	1498	G	C6-N1-C2	-5.23	121.96	125.10
29	B1	1870	C	N3-C4-C5	5.23	123.99	121.90
1	C1	1132	A	N3-C4-C5	5.23	130.46	126.80
29	D1	196	G	N3-C4-C5	-5.23	125.99	128.60
29	D1	2121	G	C8-N9-C4	5.23	108.49	106.40
1	A1	1277	G	C8-N9-C4	-5.23	104.31	106.40

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	751	A	C2-N3-C4	5.23	113.21	110.60
29	B1	989	A	C5-C6-N1	5.23	120.31	117.70
29	B1	2607	G	C4-N9-C1'	5.23	133.30	126.50
30	B2	82	G	N1-C6-O6	-5.23	116.76	119.90
29	D1	137	G	C5-C6-O6	-5.23	125.46	128.60
29	D1	227	G	C8-N9-C4	5.23	108.49	106.40
29	D1	624	G	C8-N9-C1'	-5.23	120.20	127.00
29	D1	2297	U	C5-C6-N1	-5.23	120.09	122.70
29	D1	2646	C	C5-C6-N1	-5.23	118.39	121.00
29	D1	3214	U	N3-C4-O4	5.23	123.06	119.40
29	D1	3268	A	N3-C4-C5	5.23	130.46	126.80
29	B1	1107	C	C5-C6-N1	-5.22	118.39	121.00
29	B1	1840	U	N3-C4-O4	-5.22	115.74	119.40
29	B1	2752	U	C2-N1-C1'	5.22	123.97	117.70
29	B1	3000	A	C4-N9-C1'	-5.22	116.90	126.30
29	B1	3208	G	N3-C4-C5	-5.22	125.99	128.60
30	B2	45	A	C8-N9-C4	5.22	107.89	105.80
1	C1	54	C	C6-N1-C1'	-5.22	114.53	120.80
29	D1	3188	G	C8-N9-C4	5.22	108.49	106.40
29	D1	3192	U	N1-C2-N3	5.22	118.03	114.90
29	B1	358	G	C5-C6-O6	-5.22	125.47	128.60
29	B1	422	A	C3'-C2'-C1'	-5.22	97.32	101.50
29	B1	802	C	N3-C4-C5	-5.22	119.81	121.90
29	B1	1507	G	C4-C5-C6	-5.22	115.67	118.80
29	B1	3000	A	N3-C4-N9	-5.22	123.22	127.40
29	D1	402	A	N9-C4-C5	-5.22	103.71	105.80
29	D1	2652	U	N1-C2-O2	-5.22	119.14	122.80
29	D1	2993	G	O4'-C1'-N9	5.22	112.38	108.20
29	D1	3386	G	C5-N7-C8	-5.22	101.69	104.30
29	B1	3035	A	N9-C4-C5	-5.22	103.71	105.80
1	C1	1077	C	N1-C2-O2	5.22	122.03	118.90
1	C1	1529	C	N1-C2-O2	-5.22	115.77	118.90
1	C1	1596	C	N3-C2-O2	5.22	125.56	121.90
29	D1	1298	C	C6-N1-C2	5.22	122.39	120.30
1	A1	802	G	N3-C4-C5	5.22	131.21	128.60
29	B1	149	U	N1-C2-O2	5.22	126.45	122.80
29	B1	989	A	C8-N9-C4	5.22	107.89	105.80
1	C1	55	A	C6-C5-N7	5.22	135.95	132.30
29	D1	1661	G	C5-C6-O6	-5.22	125.47	128.60
29	D1	2904	U	N3-C2-O2	-5.22	118.55	122.20
34	DC	12	GLY	N-CA-C	5.22	126.15	113.10
29	B1	21	G	N7-C8-N9	5.22	115.71	113.10

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	812	G	N3-C4-N9	-5.22	122.87	126.00
29	B1	3386	G	N1-C6-O6	5.22	123.03	119.90
29	B1	3386	G	N7-C8-N9	5.22	115.71	113.10
1	C1	158	U	N3-C2-O2	-5.22	118.55	122.20
1	C1	310	C	N3-C4-N4	5.22	121.65	118.00
1	C1	1046	G	C6-C5-N7	-5.22	127.27	130.40
1	A1	1438	G	N9-C4-C5	-5.22	103.31	105.40
29	B1	501	A	N7-C8-N9	-5.22	111.19	113.80
29	B1	3128	G	N3-C2-N2	-5.22	116.25	119.90
1	C1	378	A	C5-C6-N1	5.22	120.31	117.70
1	C1	879	G	C6-C5-N7	5.22	133.53	130.40
1	C1	1791	A	C4-C5-N7	5.22	113.31	110.70
29	D1	1294	A	C5-C6-N6	-5.22	119.53	123.70
29	D1	3290	G	C3'-C2'-C1'	5.22	105.67	101.50
31	D3	15	G	N1-C6-O6	-5.22	116.77	119.90
1	A1	365	G	C8-N9-C4	-5.21	104.31	106.40
29	B1	1146	C	N1-C2-O2	-5.21	115.77	118.90
29	B1	1377	G	C8-N9-C4	-5.21	104.31	106.40
29	D1	407	A	C8-N9-C4	5.21	107.89	105.80
29	D1	1409	G	C5-C6-N1	5.21	114.11	111.50
29	D1	1877	U	C5-C6-N1	5.21	125.31	122.70
29	D1	3012	A	C6-N1-C2	-5.21	115.47	118.60
29	D1	3256	G	C5-C6-O6	-5.21	125.47	128.60
29	B1	51	A	C2-N3-C4	5.21	113.21	110.60
29	B1	848	A	N1-C6-N6	5.21	121.73	118.60
29	D1	196	G	C2-N3-C4	5.21	114.51	111.90
29	D1	1311	G	C6-C5-N7	-5.21	127.27	130.40
29	D1	3184	A	C4-N9-C1'	5.21	135.68	126.30
29	B1	31	C	C2-N3-C4	-5.21	117.29	119.90
29	B1	614	C	N3-C4-C5	5.21	123.98	121.90
29	B1	1408	G	C8-N9-C4	5.21	108.48	106.40
29	B1	2935	U	C6-N1-C1'	5.21	128.50	121.20
57	Bb	53	PRO	N-CA-CB	5.21	109.56	103.30
29	D1	1089	G	N1-C2-N3	5.21	127.03	123.90
29	D1	2632	G	N3-C4-C5	5.21	131.21	128.60
29	D1	2643	A	C8-N9-C4	5.21	107.89	105.80
29	B1	802	C	N3-C4-N4	5.21	121.65	118.00
1	C1	1095	U	C2-N1-C1'	5.21	123.95	117.70
29	D1	402	A	N7-C8-N9	5.21	116.41	113.80
29	D1	978	G	C4-C5-C6	5.21	121.93	118.80
29	D1	1368	U	C5-C6-N1	5.21	125.31	122.70
29	D1	2143	A	C8-N9-C4	-5.21	103.72	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3207	U	C2-N3-C4	-5.21	123.87	127.00
1	A1	1028	C	N1-C2-O2	5.21	122.03	118.90
1	A1	1378	U	C2-N1-C1'	5.21	123.95	117.70
29	B1	156	G	N3-C4-C5	-5.21	126.00	128.60
29	B1	2158	A	N1-C6-N6	-5.21	115.47	118.60
31	B3	47	C	C2-N3-C4	-5.21	117.30	119.90
29	D1	918	C	C5-C6-N1	-5.21	118.40	121.00
29	D1	1217	A	C4-C5-N7	5.21	113.30	110.70
29	D1	1315	U	C6-N1-C2	5.21	124.12	121.00
29	D1	3035	A	N9-C4-C5	-5.21	103.72	105.80
29	B1	155	G	C4-C5-N7	5.21	112.88	110.80
29	B1	626	U	C5-C6-N1	5.21	125.30	122.70
29	B1	963	G	N1-C6-O6	5.21	123.02	119.90
29	B1	1175	C	C6-N1-C2	5.21	122.38	120.30
29	B1	2811	A	C6-N1-C2	5.21	121.72	118.60
1	C1	1077	C	C2-N1-C1'	5.21	124.53	118.80
29	D1	504	A	C5-N7-C8	-5.21	101.30	103.90
29	D1	1319	G	N3-C2-N2	-5.21	116.25	119.90
29	D1	1335	C	C5-C6-N1	-5.21	118.40	121.00
29	D1	1861	G	N1-C6-O6	5.21	123.02	119.90
29	B1	574	U	N1-C2-O2	-5.21	119.16	122.80
29	D1	1070	U	N3-C2-O2	-5.21	118.56	122.20
29	B1	780	A	C2-N3-C4	-5.20	108.00	110.60
29	B1	1161	G	N7-C8-N9	5.20	115.70	113.10
29	B1	3106	A	C6-C5-N7	-5.20	128.66	132.30
1	C1	1793	G	N3-C4-C5	-5.20	126.00	128.60
29	D1	1313	G	N3-C2-N2	5.20	123.54	119.90
1	A1	1009	U	N1-C2-O2	-5.20	119.16	122.80
3	AB	225	LEU	N-CA-C	5.20	125.05	111.00
1	C1	342	C	C5-C6-N1	-5.20	118.40	121.00
29	D1	1184	A	N3-C4-N9	-5.20	123.24	127.40
29	B1	14	U	N3-C2-O2	5.20	125.84	122.20
29	B1	707	U	C2-N1-C1'	-5.20	111.46	117.70
29	B1	939	U	N1-C2-N3	5.20	118.02	114.90
29	B1	1322	U	N3-C2-O2	5.20	125.84	122.20
29	B1	2560	C	C5-C6-N1	5.20	123.60	121.00
29	B1	3000	A	C8-N9-C4	5.20	107.88	105.80
29	D1	308	A	C4-C5-C6	5.20	119.60	117.00
29	D1	640	U	C6-N1-C2	-5.20	117.88	121.00
29	B1	98	G	C5-C6-O6	5.20	131.72	128.60
29	B1	103	G	N1-C2-N2	5.20	120.88	116.20
29	B1	2123	G	C5-C6-N1	5.20	114.10	111.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	509	G	N9-C4-C5	5.20	107.48	105.40
29	D1	578	A	N1-C6-N6	-5.20	115.48	118.60
29	D1	1285	G	C4-N9-C1'	5.20	133.26	126.50
29	D1	3000	A	C5-C6-N1	-5.20	115.10	117.70
29	B1	424	G	N9-C4-C5	-5.20	103.32	105.40
29	B1	1336	U	C2-N3-C4	-5.20	123.88	127.00
29	D1	1362	G	C4-N9-C1'	-5.20	119.74	126.50
29	D1	3265	C	C6-N1-C1'	-5.20	114.56	120.80
59	Dd	40	PRO	N-CA-CB	5.20	109.54	103.30
29	B1	905	U	N1-C2-O2	-5.20	119.16	122.80
29	B1	1143	A	C5-N7-C8	-5.20	101.30	103.90
29	B1	1227	C	C2-N1-C1'	5.20	124.52	118.80
29	B1	1499	C	C2-N1-C1'	-5.20	113.09	118.80
29	B1	1851	G	N1-C6-O6	5.20	123.02	119.90
1	C1	125	U	C3'-C2'-C1'	5.20	105.66	101.50
1	C1	1097	U	C5-C6-N1	-5.20	120.10	122.70
29	D1	584	G	C5-C6-O6	-5.20	125.48	128.60
29	D1	3224	G	C4-C5-N7	-5.20	108.72	110.80
1	A1	647	G	C8-N9-C1'	-5.19	120.25	127.00
1	C1	462	G	C8-N9-C1'	5.19	133.75	127.00
29	D1	3232	G	N3-C2-N2	5.19	123.54	119.90
29	D1	3342	A	N3-C4-C5	-5.19	123.16	126.80
1	A1	1330	G	C8-N9-C4	-5.19	104.32	106.40
29	B1	715	A	C3'-C2'-C1'	5.19	105.66	101.50
29	B1	2750	U	C6-N1-C2	5.19	124.12	121.00
29	B1	2891	U	N3-C4-O4	-5.19	115.77	119.40
29	B1	3147	G	C8-N9-C4	5.19	108.48	106.40
1	C1	13	C	C6-N1-C1'	-5.19	114.57	120.80
1	C1	587	C	N3-C4-C5	5.19	123.98	121.90
1	C1	1416	G	C5-C6-O6	-5.19	125.48	128.60
2	CA	152	PRO	N-CA-CB	5.19	109.53	103.30
29	D1	55	G	C5-C6-O6	-5.19	125.48	128.60
29	D1	875	G	N9-C4-C5	-5.19	103.32	105.40
29	D1	999	G	N1-C6-O6	-5.19	116.78	119.90
29	D1	1903	U	C2-N3-C4	5.19	130.12	127.00
29	D1	2958	A	N7-C8-N9	-5.19	111.20	113.80
29	D1	3246	G	N9-C4-C5	5.19	107.48	105.40
29	B1	210	U	C6-N1-C2	-5.19	117.89	121.00
29	B1	1653	G	C8-N9-C1'	-5.19	120.25	127.00
37	BF	27	PRO	N-CA-CB	5.19	109.53	103.30
1	C1	1788	G	N9-C4-C5	5.19	107.48	105.40
29	D1	102	C	N3-C2-O2	-5.19	118.27	121.90

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	DP	122	GLN	N-CA-C	-5.19	96.99	111.00
29	B1	2416	U	N3-C2-O2	5.19	125.83	122.20
29	B1	2587	U	N3-C4-O4	5.19	123.03	119.40
29	B1	2644	C	C2-N1-C1'	5.19	124.51	118.80
29	D1	1364	C	C5-C4-N4	-5.19	116.57	120.20
1	A1	1408	G	C8-N9-C4	-5.19	104.33	106.40
1	A1	1529	C	C5-C6-N1	-5.19	118.41	121.00
29	B1	1886	A	N1-C6-N6	-5.19	115.49	118.60
29	D1	865	U	C2-N1-C1'	-5.19	111.47	117.70
1	A1	113	U	N1-C2-N3	5.19	118.01	114.90
29	B1	1609	C	C5-C4-N4	-5.19	116.57	120.20
29	B1	1883	A	C6-N1-C2	-5.19	115.49	118.60
1	C1	405	C	C6-N1-C1'	-5.19	114.58	120.80
29	D1	3202	G	N7-C8-N9	-5.19	110.51	113.10
1	A1	687	G	N3-C4-N9	-5.18	122.89	126.00
1	A1	1368	G	C6-C5-N7	-5.18	127.29	130.40
29	B1	225	C	N3-C4-N4	5.18	121.63	118.00
29	B1	498	A	N1-C6-N6	5.18	121.71	118.60
29	B1	2960	C	C5-C6-N1	-5.18	118.41	121.00
30	B2	26	C	N3-C2-O2	-5.18	118.27	121.90
34	BC	82	PRO	N-CA-CB	5.18	109.52	103.30
1	C1	344	A	N9-C4-C5	5.18	107.87	105.80
29	D1	189	G	N3-C4-C5	-5.18	126.01	128.60
29	D1	1160	C	C2-N1-C1'	5.18	124.50	118.80
29	D1	2394	G	N9-C4-C5	5.18	107.47	105.40
29	D1	2714	G	N3-C4-N9	-5.18	122.89	126.00
29	D1	3251	U	N3-C2-O2	-5.18	118.57	122.20
1	A1	1244	A	N9-C4-C5	5.18	107.87	105.80
29	B1	103	G	C5-N7-C8	-5.18	101.71	104.30
29	B1	316	U	C5-C6-N1	-5.18	120.11	122.70
29	B1	2386	A	C5-C6-N6	-5.18	119.55	123.70
29	B1	2972	G	N1-C2-N3	5.18	127.01	123.90
1	C1	1305	U	N3-C4-C5	-5.18	111.49	114.60
1	C1	1634	C	C6-N1-C1'	-5.18	114.58	120.80
29	D1	1388	U	N3-C2-O2	5.18	125.83	122.20
29	B1	1337	A	N3-C4-C5	5.18	130.43	126.80
29	B1	2186	U	C5-C6-N1	-5.18	120.11	122.70
29	B1	2728	G	C8-N9-C4	5.18	108.47	106.40
29	D1	1286	A	C8-N9-C4	5.18	107.87	105.80
1	C1	13	C	C2-N1-C1'	5.18	124.50	118.80
1	C1	565	C	C6-N1-C1'	5.18	127.02	120.80
1	C1	1756	A	C8-N9-C4	-5.18	103.73	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	960	U	N3-C2-O2	-5.18	118.58	122.20
1	A1	1765	A	C4-C5-C6	5.18	119.59	117.00
29	B1	2683	U	C2-N3-C4	-5.18	123.89	127.00
29	B1	2780	A	C4-N9-C1'	5.18	135.62	126.30
29	D1	999	G	C6-N1-C2	-5.18	121.99	125.10
29	D1	1485	G	N3-C4-N9	5.18	129.11	126.00
29	B1	753	C	N3-C2-O2	-5.18	118.28	121.90
29	B1	1198	C	N3-C2-O2	-5.18	118.28	121.90
29	B1	2142	A	N1-C6-N6	5.18	121.70	118.60
29	D1	719	U	N1-C2-N3	-5.18	111.79	114.90
29	D1	890	C	N3-C4-N4	-5.18	114.38	118.00
29	D1	2331	C	N3-C2-O2	5.18	125.52	121.90
29	D1	2641	U	C5-C6-N1	-5.18	120.11	122.70
29	D1	3322	A	N1-C2-N3	-5.18	126.71	129.30
41	DJ	122	PRO	N-CA-CB	5.18	109.51	103.30
29	B1	790	U	N3-C4-O4	-5.17	115.78	119.40
29	B1	1063	G	C8-N9-C1'	5.17	133.73	127.00
29	D1	379	C	C5-C6-N1	5.17	123.59	121.00
29	D1	3376	A	C4-C5-C6	-5.17	114.41	117.00
29	B1	2398	A	N9-C4-C5	-5.17	103.73	105.80
29	D1	2609	A	C8-N9-C4	-5.17	103.73	105.80
29	D1	2989	U	C5-C6-N1	-5.17	120.11	122.70
29	D1	2993	G	C2-N3-C4	5.17	114.49	111.90
1	A1	981	U	C6-N1-C1'	-5.17	113.96	121.20
29	B1	431	U	N3-C4-O4	-5.17	115.78	119.40
29	B1	727	G	C8-N9-C4	5.17	108.47	106.40
29	B1	2881	C	N3-C2-O2	5.17	125.52	121.90
29	B1	3290	G	C3'-C2'-C1'	5.17	105.64	101.50
1	C1	1788	G	C6-C5-N7	5.17	133.50	130.40
29	D1	793	C	C6-N1-C1'	-5.17	114.59	120.80
29	B1	2991	A	C4-C5-C6	-5.17	114.42	117.00
29	B1	3307	A	C6-C5-N7	-5.17	128.68	132.30
1	C1	1512	G	N9-C4-C5	-5.17	103.33	105.40
1	A1	437	A	C4-C5-C6	5.17	119.58	117.00
29	B1	1194	G	C4-N9-C1'	5.17	133.22	126.50
29	B1	2716	U	N3-C4-O4	5.17	123.02	119.40
29	D1	2362	C	C6-N1-C1'	5.17	127.00	120.80
29	D1	2531	C	C2-N1-C1'	5.17	124.48	118.80
29	D1	3140	G	C4-N9-C1'	5.17	133.22	126.50
29	B1	694	C	C6-N1-C2	-5.17	118.23	120.30
29	B1	916	G	C6-C5-N7	-5.17	127.30	130.40
29	B1	1482	A	C2-N3-C4	5.17	113.18	110.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2166	A	C8-N9-C4	5.17	107.87	105.80
1	C1	879	G	N7-C8-N9	-5.17	110.52	113.10
1	C1	975	C	C6-N1-C2	5.17	122.37	120.30
29	D1	63	A	N1-C6-N6	5.17	121.70	118.60
29	D1	3099	C	N1-C2-O2	5.17	122.00	118.90
29	B1	39	A	C2-N3-C4	-5.17	108.02	110.60
29	B1	3140	G	C4-N9-C1'	5.17	133.21	126.50
1	C1	1244	A	C5-C6-N6	5.17	127.83	123.70
30	D2	13	A	C8-N9-C4	5.17	107.87	105.80
1	A1	631	G	N3-C4-C5	-5.16	126.02	128.60
1	A1	1634	C	C5-C6-N1	5.16	123.58	121.00
29	B1	32	U	N1-C2-O2	-5.16	119.19	122.80
29	B1	1056	U	C4-C5-C6	-5.16	116.60	119.70
29	B1	1224	C	C2-N1-C1'	-5.16	113.12	118.80
29	B1	3045	G	C5-C6-O6	-5.16	125.50	128.60
30	B2	82	G	C5-C6-N1	5.16	114.08	111.50
29	D1	596	C	N3-C4-N4	-5.16	114.39	118.00
29	D1	1138	U	C2-N3-C4	-5.16	123.90	127.00
29	D1	1177	G	C2-N3-C4	-5.16	109.32	111.90
29	D1	1547	G	C6-C5-N7	-5.16	127.30	130.40
29	D1	1938	U	N3-C2-O2	-5.16	118.59	122.20
29	D1	2974	U	C2-N3-C4	-5.16	123.90	127.00
29	B1	94	G	C6-C5-N7	5.16	133.50	130.40
29	D1	26	A	C4-C5-C6	5.16	119.58	117.00
29	D1	2325	G	C8-N9-C4	-5.16	104.33	106.40
29	B1	363	G	C4-C5-N7	5.16	112.86	110.80
29	B1	752	C	C5-C6-N1	5.16	123.58	121.00
29	B1	3099	C	C2-N1-C1'	5.16	124.48	118.80
29	D1	89	A	C6-C5-N7	-5.16	128.69	132.30
29	D1	513	G	C5-C6-N1	-5.16	108.92	111.50
29	D1	1318	A	C6-N1-C2	-5.16	115.50	118.60
29	D1	2716	U	C5-C4-O4	-5.16	122.80	125.90
29	D1	2740	A	N7-C8-N9	5.16	116.38	113.80
29	D1	3168	A	C5-C6-N6	-5.16	119.57	123.70
29	B1	98	G	N9-C4-C5	5.16	107.46	105.40
29	B1	222	A	C4-C5-N7	5.16	113.28	110.70
29	B1	1551	C	C6-N1-C2	5.16	122.36	120.30
29	B1	1677	G	N1-C2-N2	-5.16	111.56	116.20
29	B1	1877	U	N3-C2-O2	-5.16	118.59	122.20
29	B1	1892	G	C5-N7-C8	5.16	106.88	104.30
29	B1	3272	C	C5-C4-N4	-5.16	116.59	120.20
41	BJ	27	PRO	N-CA-CB	5.16	109.49	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3132	C	C2-N1-C1'	-5.16	113.12	118.80
29	D1	3189	G	N1-C6-O6	5.16	123.00	119.90
29	D1	2376	G	N3-C4-N9	-5.16	122.91	126.00
29	D1	2814	G	C5-C6-O6	-5.16	125.51	128.60
1	A1	1787	C	C6-N1-C2	5.16	122.36	120.30
29	B1	676	G	N1-C2-N2	-5.16	111.56	116.20
29	B1	2102	U	C2-N1-C1'	-5.16	111.51	117.70
29	B1	1180	A	N1-C6-N6	-5.15	115.51	118.60
29	B1	2190	U	C5-C6-N1	-5.15	120.12	122.70
31	B3	11	C	C6-N1-C2	-5.15	118.24	120.30
29	D1	3205	G	C8-N9-C1'	-5.15	120.30	127.00
41	DJ	178	ARG	N-CA-C	5.15	124.92	111.00
1	A1	1777	G	C6-C5-N7	-5.15	127.31	130.40
29	B1	43	A	N7-C8-N9	-5.15	111.22	113.80
29	B1	574	U	N3-C4-O4	5.15	123.01	119.40
29	B1	2130	G	N1-C6-O6	5.15	122.99	119.90
29	D1	32	U	N1-C2-O2	-5.15	119.19	122.80
29	D1	207	U	C5-C4-O4	-5.15	122.81	125.90
29	D1	214	G	C4-N9-C1'	-5.15	119.80	126.50
29	D1	790	U	C5-C6-N1	-5.15	120.12	122.70
29	D1	1204	A	N1-C6-N6	5.15	121.69	118.60
29	D1	1640	G	C5-C6-O6	-5.15	125.51	128.60
29	D1	2661	G	C5-C6-N1	5.15	114.08	111.50
29	D1	3041	U	N3-C4-C5	5.15	117.69	114.60
29	D1	3134	A	N1-C6-N6	5.15	121.69	118.60
1	A1	1791	A	N1-C6-N6	5.15	121.69	118.60
29	B1	137	G	C5-C6-O6	-5.15	125.51	128.60
29	B1	670	C	N1-C2-O2	-5.15	115.81	118.90
29	B1	3166	C	C2-N1-C1'	-5.15	113.14	118.80
29	D1	644	G	N1-C6-O6	5.15	122.99	119.90
29	D1	948	C	C5-C4-N4	-5.15	116.59	120.20
29	D1	1499	C	C6-N1-C2	5.15	122.36	120.30
29	D1	2740	A	C4-C5-N7	5.15	113.28	110.70
29	D1	3030	G	N3-C4-C5	5.15	131.18	128.60
29	D1	3366	G	N3-C4-N9	-5.15	122.91	126.00
29	D1	617	G	N1-C6-O6	-5.15	116.81	119.90
29	D1	1380	G	N1-C6-O6	5.15	122.99	119.90
29	D1	1678	G	N3-C2-N2	-5.15	116.30	119.90
29	D1	2950	G	N1-C6-O6	5.15	122.99	119.90
1	A1	577	G	C4-C5-N7	5.15	112.86	110.80
29	B1	561	C	N3-C2-O2	5.15	125.50	121.90
29	B1	640	U	C6-N1-C1'	5.15	128.41	121.20

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1340	G	N1-C2-N3	5.15	126.99	123.90
29	B1	1547	G	C4-C5-N7	5.15	112.86	110.80
1	C1	1745	G	N3-C4-C5	-5.15	126.03	128.60
29	D1	754	G	N3-C4-N9	-5.15	122.91	126.00
1	C1	575	C	N3-C4-C5	5.15	123.96	121.90
29	D1	573	C	C4-C5-C6	5.15	119.97	117.40
29	D1	1781	C	N3-C4-N4	5.15	121.60	118.00
1	A1	1030	A	C8-N9-C4	5.14	107.86	105.80
29	B1	607	A	N1-C2-N3	5.14	131.87	129.30
29	B1	1900	A	C6-C5-N7	-5.14	128.70	132.30
29	B1	2396	G	C8-N9-C1'	-5.14	120.31	127.00
7	CF	108	PRO	N-CA-CB	5.14	109.47	103.30
29	D1	63	A	N9-C4-C5	-5.14	103.74	105.80
29	D1	1190	A	N7-C8-N9	5.14	116.37	113.80
29	D1	1477	A	C5-C6-N1	-5.14	115.13	117.70
29	D1	1951	C	N1-C2-N3	-5.14	115.60	119.20
29	D1	3091	A	C6-N1-C2	-5.14	115.51	118.60
29	D1	3184	A	N7-C8-N9	5.14	116.37	113.80
29	D1	3219	G	N7-C8-N9	5.14	115.67	113.10
30	D2	65	G	N7-C8-N9	5.14	115.67	113.10
1	A1	1453	G	N1-C6-O6	5.14	122.98	119.90
29	B1	439	C	N1-C2-O2	5.14	121.99	118.90
29	B1	675	C	C2-N1-C1'	5.14	124.46	118.80
29	B1	1194	G	N3-C4-C5	-5.14	126.03	128.60
29	B1	1476	G	N9-C4-C5	5.14	107.46	105.40
29	B1	2641	U	C5-C6-N1	-5.14	120.13	122.70
1	C1	757	A	N1-C2-N3	5.14	131.87	129.30
17	CP	29	TYR	N-CA-C	5.14	124.89	111.00
29	D1	1333	C	N3-C4-N4	5.14	121.60	118.00
29	B1	1673	G	N3-C4-C5	5.14	131.17	128.60
29	D1	1899	G	N3-C4-C5	5.14	131.17	128.60
30	D2	44	C	C6-N1-C2	5.14	122.36	120.30
1	A1	346	G	C5-C6-O6	-5.14	125.52	128.60
1	A1	784	C	C6-N1-C1'	-5.14	114.63	120.80
1	A1	1481	C	C5-C6-N1	5.14	123.57	121.00
29	B1	1907	C	C4-C5-C6	5.14	119.97	117.40
29	D1	2697	A	C2-N3-C4	-5.14	108.03	110.60
29	D1	2898	G	C3'-C2'-C1'	5.14	105.61	101.50
1	A1	1421	A	C4-C5-N7	-5.14	108.13	110.70
29	B1	67	A	C2-N3-C4	5.14	113.17	110.60
1	C1	374	U	C6-N1-C2	5.14	124.08	121.00
29	D1	244	G	C2-N3-C4	-5.14	109.33	111.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AJ	124	PRO	N-CA-CB	5.14	109.47	103.30
29	B1	1427	U	C2-N1-C1'	-5.14	111.53	117.70
29	D1	1360	C	N1-C2-O2	-5.14	115.82	118.90
29	D1	2108	C	N3-C4-C5	5.14	123.95	121.90
29	D1	2913	C	C2-N3-C4	-5.14	117.33	119.90
1	A1	79	C	N1-C2-O2	5.13	121.98	118.90
1	A1	1097	U	C5-C6-N1	-5.13	120.13	122.70
29	B1	1691	U	C2-N3-C4	-5.13	123.92	127.00
29	D1	1710	C	N1-C2-O2	5.13	121.98	118.90
37	DF	4	GLN	N-CA-C	5.13	124.86	111.00
1	A1	610	G	C5-C6-O6	-5.13	125.52	128.60
29	B1	1673	G	C8-N9-C4	5.13	108.45	106.40
29	D1	985	U	C2-N1-C1'	-5.13	111.54	117.70
29	D1	3030	G	C4-C5-N7	5.13	112.85	110.80
1	A1	306	U	C6-N1-C2	5.13	124.08	121.00
11	AJ	126	PRO	N-CA-CB	5.13	109.46	103.30
29	B1	77	A	C5-C6-N6	-5.13	119.59	123.70
29	B1	1091	A	C6-N1-C2	-5.13	115.52	118.60
29	B1	2992	U	N3-C4-O4	5.13	122.99	119.40
29	D1	907	G	C4-C5-N7	5.13	112.85	110.80
1	A1	330	G	C5-C6-O6	-5.13	125.52	128.60
1	A1	1377	U	C2-N1-C1'	5.13	123.86	117.70
1	A1	1438	G	N3-C4-N9	5.13	129.08	126.00
29	B1	1751	G	C6-C5-N7	5.13	133.48	130.40
29	D1	953	G	C5-C6-O6	-5.13	125.52	128.60
2	AA	104	PRO	N-CA-CB	5.13	109.45	103.30
29	B1	1395	G	C8-N9-C4	-5.13	104.35	106.40
29	B1	1436	U	C4-C5-C6	5.13	122.78	119.70
29	B1	3097	C	C2-N1-C1'	-5.13	113.16	118.80
29	B1	3379	C	N1-C2-O2	-5.13	115.82	118.90
31	B3	58	G	N1-C6-O6	5.13	122.98	119.90
1	C1	481	A	N1-C6-N6	-5.13	115.52	118.60
29	D1	1151	U	N3-C4-O4	5.13	122.99	119.40
29	D1	2705	A	C2-N3-C4	5.13	113.16	110.60
29	D1	2834	G	C6-C5-N7	5.13	133.48	130.40
47	DR	60	PRO	N-CA-CB	5.13	109.45	103.30
29	B1	1331	U	N1-C2-O2	-5.13	119.21	122.80
29	D1	2421	U	N1-C2-O2	-5.13	119.21	122.80
30	D2	56	A	C4-C5-N7	5.13	113.26	110.70
29	B1	1510	G	N1-C6-O6	-5.12	116.83	119.90
29	B1	3278	C	C5-C6-N1	5.12	123.56	121.00
1	C1	627	C	C5-C6-N1	-5.12	118.44	121.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	423	G	N3-C4-C5	-5.12	126.04	128.60
29	B1	585	A	C8-N9-C4	-5.12	103.75	105.80
29	B1	1496	C	C6-N1-C1'	-5.12	114.65	120.80
29	B1	3048	A	N7-C8-N9	5.12	116.36	113.80
30	B2	13	A	N7-C8-N9	-5.12	111.24	113.80
1	C1	342	C	C6-N1-C2	5.12	122.35	120.30
1	C1	1039	A	C5-C6-N1	-5.12	115.14	117.70
29	D1	429	U	C6-N1-C2	-5.12	117.93	121.00
29	D1	1360	C	C5-C6-N1	-5.12	118.44	121.00
29	D1	1664	G	N3-C4-C5	5.12	131.16	128.60
1	A1	351	C	N1-C2-O2	-5.12	115.83	118.90
1	A1	462	G	C4-N9-C1'	-5.12	119.84	126.50
1	A1	1148	C	C6-N1-C2	-5.12	118.25	120.30
1	A1	1455	G	C2-N3-C4	5.12	114.46	111.90
29	B1	2707	C	C3'-C2'-C1'	5.12	105.60	101.50
29	B1	2782	U	C2-N3-C4	5.12	130.07	127.00
29	B1	2892	A	C6-C5-N7	-5.12	128.72	132.30
45	BP	76	PRO	N-CA-C	-5.12	98.78	112.10
50	BU	117	PRO	N-CA-CB	5.12	109.45	103.30
1	C1	58	U	C2-N1-C1'	5.12	123.85	117.70
1	C1	338	C	N3-C2-O2	-5.12	118.31	121.90
29	D1	55	G	C4-C5-N7	5.12	112.85	110.80
29	D1	1439	U	C5-C4-O4	-5.12	122.83	125.90
29	D1	2939	G	N3-C2-N2	5.12	123.48	119.90
29	D1	2969	A	N3-C4-C5	5.12	130.38	126.80
37	DF	74	VAL	N-CA-C	5.12	124.83	111.00
1	A1	1778	G	C4-C5-N7	5.12	112.85	110.80
29	B1	161	G	N3-C4-N9	5.12	129.07	126.00
1	C1	570	A	C8-N9-C4	5.12	107.85	105.80
29	D1	1226	G	C3'-C2'-C1'	5.12	105.60	101.50
29	D1	1908	A	C5-C6-N1	5.12	120.26	117.70
29	D1	2641	U	C2-N3-C4	-5.12	123.93	127.00
29	B1	220	G	N3-C4-C5	5.12	131.16	128.60
29	B1	1307	G	N1-C6-O6	5.12	122.97	119.90
29	B1	1322	U	N3-C4-O4	5.12	122.98	119.40
29	B1	2737	C	C5-C6-N1	-5.12	118.44	121.00
29	B1	2814	G	C4-C5-N7	5.12	112.85	110.80
29	B1	3000	A	C2-N3-C4	-5.12	108.04	110.60
29	D1	755	A	C5-C6-N1	5.12	120.26	117.70
29	D1	1148	G	N7-C8-N9	5.12	115.66	113.10
29	D1	2358	A	N3-C4-C5	5.12	130.38	126.80
29	D1	3257	C	N3-C4-N4	-5.12	114.42	118.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1335	U	C2-N1-C1'	5.12	123.84	117.70
29	B1	2648	G	C4-C5-N7	5.12	112.85	110.80
1	C1	341	A	C6-N1-C2	-5.12	115.53	118.60
29	D1	895	A	N7-C8-N9	5.12	116.36	113.80
29	D1	1861	G	C5-C6-N1	-5.12	108.94	111.50
31	D3	101	U	C2-N1-C1'	-5.12	111.56	117.70
1	A1	1567	U	C3'-C2'-C1'	5.12	105.59	101.50
29	B1	2672	G	C4-C5-N7	5.12	112.85	110.80
29	B1	2991	A	N1-C2-N3	-5.12	126.74	129.30
29	B1	3009	G	N3-C4-N9	-5.12	122.93	126.00
29	B1	3363	U	N1-C2-N3	-5.12	111.83	114.90
34	BC	170	PRO	N-CA-CB	5.12	109.44	103.30
1	C1	615	A	C6-N1-C2	-5.12	115.53	118.60
29	D1	994	G	C8-N9-C4	5.12	108.45	106.40
29	D1	2922	G	C4-C5-N7	5.12	112.85	110.80
29	D1	3266	G	C5-C6-N1	5.12	114.06	111.50
29	B1	2396	G	C6-C5-N7	-5.11	127.33	130.40
29	B1	3090	U	N3-C4-O4	5.11	122.98	119.40
1	C1	1781	A	C8-N9-C4	-5.11	103.75	105.80
11	CJ	126	PRO	N-CA-CB	5.11	109.44	103.30
29	D1	573	C	C5-C6-N1	-5.11	118.44	121.00
29	D1	1485	G	C5-C6-N1	5.11	114.06	111.50
29	B1	50	U	C6-N1-C2	-5.11	117.93	121.00
1	C1	113	U	C2-N1-C1'	-5.11	111.56	117.70
1	C1	1642	G	C4-C5-N7	5.11	112.84	110.80
29	D1	434	U	C2-N3-C4	-5.11	123.93	127.00
29	D1	624	G	C6-C5-N7	-5.11	127.33	130.40
50	DU	105	PRO	N-CA-CB	5.11	109.44	103.30
29	B1	549	U	N3-C2-O2	-5.11	118.62	122.20
29	B1	1166	G	C4-C5-N7	5.11	112.84	110.80
29	B1	1380	G	C5-C6-N1	-5.11	108.94	111.50
29	B1	2962	U	C6-N1-C1'	5.11	128.35	121.20
1	C1	351	C	N3-C4-C5	-5.11	119.86	121.90
1	C1	1418	G	C6-C5-N7	-5.11	127.33	130.40
1	C1	1420	C	C6-N1-C2	-5.11	118.25	120.30
29	D1	947	G	C5-C6-N1	5.11	114.06	111.50
29	D1	3207	U	C5-C4-O4	5.11	128.97	125.90
1	A1	314	C	C6-N1-C2	5.11	122.34	120.30
1	A1	1613	U	N1-C2-O2	5.11	126.38	122.80
29	B1	402	A	C4-N9-C1'	5.11	135.50	126.30
29	B1	2968	G	C5-C6-N1	5.11	114.06	111.50
29	B1	3059	G	C4-C5-N7	5.11	112.84	110.80

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1486	G	N1-C6-O6	5.11	122.97	119.90
29	D1	68	C	C6-N1-C2	-5.11	118.26	120.30
29	D1	431	U	C2-N1-C1'	-5.11	111.57	117.70
29	D1	1133	A	C5-C6-N1	-5.11	115.15	117.70
29	D1	2660	G	C4-C5-N7	5.11	112.84	110.80
29	B1	214	G	C8-N9-C4	5.11	108.44	106.40
29	B1	227	G	N7-C8-N9	-5.11	110.55	113.10
29	B1	614	C	C2-N3-C4	-5.11	117.35	119.90
29	B1	624	G	C4-N9-C1'	5.11	133.14	126.50
29	B1	857	G	N1-C2-N3	5.11	126.96	123.90
29	B1	2737	C	C6-N1-C2	5.11	122.34	120.30
29	B1	2973	G	N7-C8-N9	-5.11	110.55	113.10
29	B1	3133	C	C5-C4-N4	-5.11	116.62	120.20
1	C1	1455	G	C4-C5-N7	-5.11	108.76	110.80
1	A1	439	U	C6-N1-C1'	-5.11	114.05	121.20
1	A1	479	C	C6-N1-C1'	5.11	126.93	120.80
29	B1	111	C	C5-C6-N1	-5.11	118.45	121.00
29	B1	506	U	C5-C6-N1	5.11	125.25	122.70
29	B1	556	U	C2-N3-C4	5.11	130.06	127.00
29	B1	2646	C	N1-C2-O2	-5.11	115.84	118.90
29	D1	1294	A	N3-C4-C5	-5.11	123.23	126.80
29	D1	1786	G	N9-C4-C5	5.11	107.44	105.40
29	D1	3066	U	N3-C4-C5	-5.11	111.54	114.60
29	B1	2719	U	C5-C4-O4	5.10	128.96	125.90
29	B1	2804	A	C3'-C2'-C1'	5.10	105.58	101.50
31	B3	67	U	C5-C4-O4	5.10	128.96	125.90
29	D1	715	A	C3'-C2'-C1'	5.10	105.58	101.50
1	A1	447	U	C3'-C2'-C1'	5.10	105.58	101.50
29	B1	94	G	C8-N9-C1'	5.10	133.63	127.00
29	B1	1097	G	N3-C4-C5	-5.10	126.05	128.60
29	B1	1899	G	N7-C8-N9	-5.10	110.55	113.10
29	B1	2939	G	C5-N7-C8	5.10	106.85	104.30
29	B1	3199	G	C8-N9-C1'	5.10	133.63	127.00
1	C1	594	A	C2-N3-C4	-5.10	108.05	110.60
29	D1	406	G	N9-C4-C5	-5.10	103.36	105.40
29	D1	431	U	C5-C6-N1	-5.10	120.15	122.70
29	D1	1062	A	N1-C6-N6	5.10	121.66	118.60
29	D1	1849	C	C6-N1-C2	5.10	122.34	120.30
29	D1	2679	A	N1-C6-N6	5.10	121.66	118.60
29	D1	3101	G	N1-C6-O6	5.10	122.96	119.90
29	D1	3366	G	N3-C4-C5	5.10	131.15	128.60
34	DC	239	PRO	N-CA-CB	5.10	109.42	103.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	437	A	N3-C4-C5	-5.10	123.23	126.80
29	B1	125	C	N1-C2-O2	5.10	121.96	118.90
29	B1	1188	U	C2-N1-C1'	-5.10	111.58	117.70
29	B1	2893	C	C6-N1-C2	5.10	122.34	120.30
29	D1	3381	U	N3-C2-O2	-5.10	118.63	122.20
1	A1	54	C	C2-N3-C4	-5.10	117.35	119.90
1	A1	1786	G	N1-C6-O6	-5.10	116.84	119.90
29	B1	1133	A	N3-C4-N9	-5.10	123.32	127.40
29	B1	1450	G	C8-N9-C1'	-5.10	120.37	127.00
29	B1	3173	G	N1-C6-O6	5.10	122.96	119.90
1	C1	627	C	C2-N1-C1'	-5.10	113.19	118.80
1	C1	1067	C	N1-C2-O2	5.10	121.96	118.90
29	D1	358	G	C5-C6-O6	-5.10	125.54	128.60
29	D1	1432	C	C5-C6-N1	5.10	123.55	121.00
29	D1	1829	G	C4-N9-C1'	5.10	133.13	126.50
29	D1	2352	A	C4-C5-N7	5.10	113.25	110.70
1	A1	1636	C	C5-C6-N1	-5.10	118.45	121.00
6	AE	144	PRO	N-CA-CB	5.10	109.42	103.30
29	B1	143	G	C5-C6-O6	-5.10	125.54	128.60
29	B1	746	A	N3-C4-C5	-5.10	123.23	126.80
29	B1	1000	C	C6-N1-C2	5.10	122.34	120.30
1	C1	798	C	C2-N1-C1'	5.10	124.41	118.80
1	C1	1220	C	N1-C2-O2	5.10	121.96	118.90
1	C1	1408	G	C8-N9-C1'	-5.10	120.37	127.00
1	C1	1620	C	C6-N1-C1'	-5.10	114.68	120.80
1	C1	1789	G	C2-N3-C4	-5.10	109.35	111.90
29	D1	552	G	N9-C4-C5	5.10	107.44	105.40
29	D1	1793	C	C6-N1-C1'	-5.10	114.68	120.80
29	D1	1900	A	C8-N9-C4	-5.10	103.76	105.80
29	D1	1912	U	C5-C6-N1	5.10	125.25	122.70
29	B1	86	G	C6-C5-N7	5.10	133.46	130.40
29	B1	1371	G	N3-C4-N9	5.10	129.06	126.00
29	B1	1477	A	C5-C6-N1	-5.10	115.15	117.70
29	D1	524	U	C3'-C2'-C1'	5.10	105.58	101.50
29	D1	3198	U	C5-C4-O4	-5.10	122.84	125.90
1	A1	88	U	C5-C4-O4	5.09	128.96	125.90
29	B1	1209	G	N1-C2-N3	5.09	126.96	123.90
29	B1	1481	A	C8-N9-C4	5.09	107.84	105.80
29	B1	2215	A	C2-N3-C4	-5.09	108.05	110.60
31	B3	97	A	C8-N9-C4	5.09	107.84	105.80
1	C1	1579	U	C2-N1-C1'	5.09	123.81	117.70
29	D1	625	G	C6-N1-C2	5.09	128.16	125.10

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	DN	67	PRO	N-CA-CB	5.09	109.41	103.30
1	A1	1468	U	C5-C4-O4	-5.09	122.84	125.90
1	A1	1777	G	C4-N9-C1'	5.09	133.12	126.50
29	B1	2912	G	N7-C8-N9	5.09	115.65	113.10
1	A1	1591	C	N3-C4-N4	-5.09	114.44	118.00
29	B1	152	U	C3'-C2'-C1'	5.09	105.57	101.50
29	B1	394	G	N9-C4-C5	5.09	107.44	105.40
29	B1	531	G	N3-C4-N9	-5.09	122.94	126.00
29	B1	1508	C	N3-C4-C5	-5.09	119.86	121.90
29	B1	3220	G	C5-C6-O6	-5.09	125.55	128.60
1	C1	792	U	C2-N1-C1'	5.09	123.81	117.70
29	D1	698	U	C2-N1-C1'	5.09	123.81	117.70
35	DD	249	ILE	N-CA-C	-5.09	97.25	111.00
29	B1	754	G	C8-N9-C4	5.09	108.44	106.40
29	B1	999	G	C6-N1-C2	-5.09	122.05	125.10
29	B1	1178	G	C5-C6-N1	5.09	114.05	111.50
29	B1	1387	G	C2-N3-C4	-5.09	109.36	111.90
30	D2	65	G	C6-C5-N7	-5.09	127.35	130.40
30	B2	15	C	C6-N1-C2	5.09	122.33	120.30
1	C1	784	C	N1-C2-O2	5.09	121.95	118.90
29	D1	985	U	C5-C6-N1	-5.09	120.16	122.70
29	D1	1899	G	C5-C6-N1	-5.09	108.96	111.50
29	D1	2400	G	N1-C6-O6	5.09	122.95	119.90
1	A1	389	G	C5-C6-O6	-5.09	125.55	128.60
29	B1	2597	U	N1-C2-N3	5.09	117.95	114.90
29	B1	2780	A	N3-C4-N9	5.09	131.47	127.40
29	B1	2907	G	C8-N9-C4	-5.09	104.37	106.40
29	B1	3148	U	C5-C6-N1	-5.09	120.16	122.70
29	B1	3231	U	C2-N3-C4	-5.09	123.95	127.00
1	C1	426	G	C8-N9-C4	5.09	108.43	106.40
29	D1	278	U	N3-C2-O2	5.09	125.76	122.20
1	C1	1045	C	N3-C4-N4	-5.08	114.44	118.00
29	B1	1155	C	N1-C2-O2	-5.08	115.85	118.90
29	B1	2691	A	C2-N3-C4	5.08	113.14	110.60
29	B1	1054	A	N7-C8-N9	-5.08	111.26	113.80
29	B1	2147	A	C4-C5-N7	5.08	113.24	110.70
29	B1	3271	G	N1-C2-N3	-5.08	120.85	123.90
29	D1	834	U	N1-C2-O2	5.08	126.36	122.80
29	D1	1207	G	C6-C5-N7	-5.08	127.35	130.40
29	D1	1397	C	N1-C2-O2	-5.08	115.85	118.90
29	D1	2201	G	N1-C6-O6	5.08	122.95	119.90
29	D1	3296	A	C8-N9-C4	5.08	107.83	105.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	625	G	N7-C8-N9	-5.08	110.56	113.10
29	B1	651	G	C2-N3-C4	-5.08	109.36	111.90
1	C1	960	U	N3-C2-O2	-5.08	118.64	122.20
29	D1	362	U	N3-C4-O4	5.08	122.96	119.40
29	D1	1365	G	N1-C2-N3	5.08	126.95	123.90
29	D1	2364	G	N9-C4-C5	-5.08	103.37	105.40
29	D1	3134	A	C5-C6-N6	-5.08	119.64	123.70
1	A1	149	C	C2-N1-C1'	5.08	124.39	118.80
1	A1	420	A	C2-N3-C4	-5.08	108.06	110.60
1	A1	1604	U	C2-N1-C1'	5.08	123.79	117.70
29	B1	1095	U	C2-N1-C1'	5.08	123.80	117.70
29	B1	2525	G	C4-N9-C1'	-5.08	119.90	126.50
29	B1	2806	U	N1-C2-N3	5.08	117.95	114.90
29	D1	513	G	N1-C2-N3	5.08	126.95	123.90
29	D1	805	G	C8-N9-C4	-5.08	104.37	106.40
29	D1	2368	A	C6-C5-N7	-5.08	128.75	132.30
29	D1	2982	A	N9-C4-C5	5.08	107.83	105.80
31	D3	100	U	C5-C4-O4	-5.08	122.85	125.90
29	B1	2618	G	N3-C4-N9	-5.08	122.95	126.00
29	D1	574	U	C5-C4-O4	-5.08	122.85	125.90
29	D1	2395	G	N1-C2-N3	5.08	126.95	123.90
1	A1	986	G	C5-C6-N1	-5.08	108.96	111.50
29	B1	501	A	N9-C4-C5	-5.08	103.77	105.80
29	B1	1124	U	N3-C4-C5	5.08	117.65	114.60
29	B1	3329	U	N3-C4-O4	-5.08	115.85	119.40
29	D1	429	U	N3-C4-C5	-5.08	111.56	114.60
29	D1	1158	A	N1-C6-N6	-5.08	115.56	118.60
29	D1	1525	G	N9-C4-C5	-5.08	103.37	105.40
29	D1	2740	A	C5-N7-C8	-5.08	101.36	103.90
29	D1	2904	U	N3-C4-O4	-5.08	115.85	119.40
1	A1	1438	G	C4-N9-C1'	5.07	133.09	126.50
29	B1	45	A	C4-C5-C6	-5.07	114.46	117.00
29	B1	1898	G	C4-C5-N7	-5.07	108.77	110.80
29	B1	3320	A	C5-C6-N1	-5.07	115.16	117.70
1	C1	354	C	N1-C2-O2	-5.07	115.86	118.90
11	CJ	35	PRO	N-CA-CB	5.07	109.39	103.30
29	D1	726	G	C4-C5-C6	5.07	121.84	118.80
29	D1	1894	U	C5-C6-N1	-5.07	120.16	122.70
29	D1	3236	U	N3-C2-O2	-5.07	118.65	122.20
31	D3	136	G	N3-C4-N9	-5.07	122.95	126.00
29	B1	2372	A	C8-N9-C1'	-5.07	118.57	127.70
29	B1	2652	U	C3'-C2'-C1'	5.07	105.56	101.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	666	A	N3-C4-C5	5.07	130.35	126.80
29	D1	746	A	C6-N1-C2	-5.07	115.56	118.60
29	D1	2840	C	N3-C4-N4	5.07	121.55	118.00
29	D1	2948	C	C3'-C2'-C1'	5.07	105.56	101.50
1	A1	551	G	C4-C5-N7	5.07	112.83	110.80
29	B1	656	A	C8-N9-C4	-5.07	103.77	105.80
29	B1	857	G	N3-C2-N2	-5.07	116.35	119.90
29	B1	1880	U	C2-N3-C4	-5.07	123.96	127.00
29	B1	2719	U	N1-C2-N3	5.07	117.94	114.90
1	C1	1651	A	N9-C4-C5	-5.07	103.77	105.80
29	D1	659	G	N3-C4-C5	-5.07	126.06	128.60
29	D1	1307	G	C6-C5-N7	-5.07	127.36	130.40
30	D2	46	A	N1-C6-N6	-5.07	115.56	118.60
1	A1	45	U	C3'-C2'-C1'	5.07	105.56	101.50
29	B1	2174	G	C4-N9-C1'	-5.07	119.91	126.50
29	D1	2856	G	C4-C5-N7	5.07	112.83	110.80
29	D1	3200	G	C4-N9-C1'	-5.07	119.91	126.50
29	B1	1066	G	C8-N9-C4	-5.07	104.37	106.40
29	B1	1125	U	N1-C2-O2	-5.07	119.25	122.80
29	B1	2122	G	N3-C4-C5	5.07	131.13	128.60
1	C1	1634	C	O4'-C1'-N1	-5.07	104.15	108.20
29	D1	1098	A	C2-N3-C4	-5.07	108.07	110.60
29	D1	1899	G	C4-C5-N7	-5.07	108.77	110.80
29	D1	2639	G	N1-C6-O6	5.07	122.94	119.90
29	D1	2652	U	C3'-C2'-C1'	5.07	105.55	101.50
29	D1	2752	U	C6-N1-C2	-5.07	117.96	121.00
29	B1	575	G	N3-C4-N9	-5.07	122.96	126.00
29	B1	719	U	N3-C4-C5	5.07	117.64	114.60
29	B1	1850	A	C2-N3-C4	-5.07	108.07	110.60
29	B1	2889	C	C2-N3-C4	-5.07	117.37	119.90
29	D1	661	G	C6-C5-N7	-5.07	127.36	130.40
29	D1	3104	U	C5-C4-O4	-5.07	122.86	125.90
1	A1	1753	A	C8-N9-C4	5.06	107.83	105.80
1	C1	1512	G	C6-C5-N7	-5.06	127.36	130.40
29	D1	1147	G	C8-N9-C4	5.06	108.43	106.40
29	B1	196	G	C2-N3-C4	5.06	114.43	111.90
29	B1	1401	A	N1-C2-N3	-5.06	126.77	129.30
29	B1	2961	G	C4-N9-C1'	5.06	133.08	126.50
31	B3	129	C	C5-C4-N4	-5.06	116.66	120.20
1	C1	338	C	N1-C2-O2	5.06	121.94	118.90
1	C1	592	A	C6-N1-C2	5.06	121.64	118.60
1	C1	1046	G	C4-N9-C1'	5.06	133.08	126.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	674	G	N3-C4-C5	5.06	131.13	128.60
29	D1	2699	G	C5-C6-O6	-5.06	125.56	128.60
29	D1	2853	A	C4-C5-C6	-5.06	114.47	117.00
29	D1	2999	U	C6-N1-C2	-5.06	117.96	121.00
1	A1	1025	A	N9-C4-C5	5.06	107.83	105.80
29	B1	713	U	C5-C6-N1	-5.06	120.17	122.70
29	D1	676	G	C8-N9-C4	-5.06	104.38	106.40
29	D1	1440	G	C6-C5-N7	5.06	133.44	130.40
29	D1	1589	A	C4-C5-N7	5.06	113.23	110.70
1	A1	686	C	C5-C4-N4	-5.06	116.66	120.20
29	B1	407	A	N1-C6-N6	-5.06	115.56	118.60
29	B1	958	C	C6-N1-C1'	-5.06	114.73	120.80
29	B1	1398	U	C3'-C2'-C1'	5.06	105.55	101.50
29	B1	2362	C	C2-N3-C4	5.06	122.43	119.90
29	B1	3367	C	N3-C4-C5	5.06	123.92	121.90
35	BD	75	PRO	N-CA-CB	5.06	109.37	103.30
1	C1	865	A	N7-C8-N9	-5.06	111.27	113.80
1	C1	1567	U	C5-C4-O4	-5.06	122.86	125.90
29	D1	1301	A	C2-N3-C4	-5.06	108.07	110.60
29	D1	2863	G	C4-C5-N7	-5.06	108.78	110.80
29	D1	2896	A	C4-C5-N7	-5.06	108.17	110.70
1	A1	62	A	C4-C5-N7	-5.06	108.17	110.70
1	A1	389	G	C5-C6-N1	5.06	114.03	111.50
1	A1	1033	C	C5-C6-N1	-5.06	118.47	121.00
1	A1	1647	U	C2-N3-C4	5.06	130.03	127.00
29	B1	814	U	C6-N1-C2	5.06	124.03	121.00
29	B1	918	C	C6-N1-C2	5.06	122.32	120.30
29	B1	1056	U	N3-C2-O2	-5.06	118.66	122.20
31	B3	131	A	C6-N1-C2	5.06	121.63	118.60
29	D1	220	G	N9-C4-C5	-5.06	103.38	105.40
29	D1	2641	U	N3-C2-O2	-5.06	118.66	122.20
29	D1	2957	G	C5-C6-N1	-5.06	108.97	111.50
29	B1	3177	G	C4-C5-N7	-5.06	108.78	110.80
29	B1	406	G	N9-C4-C5	-5.05	103.38	105.40
29	B1	953	G	C4-C5-N7	5.05	112.82	110.80
29	B1	1833	G	C8-N9-C4	5.05	108.42	106.40
29	B1	3111	U	N3-C2-O2	-5.05	118.66	122.20
1	C1	650	U	C2-N1-C1'	5.05	123.76	117.70
1	C1	1159	C	C5-C6-N1	5.05	123.53	121.00
1	C1	1595	U	C2-N3-C4	5.05	130.03	127.00
29	D1	2291	A	C4-C5-N7	5.05	113.23	110.70
29	D1	2667	A	N3-C4-C5	-5.05	123.26	126.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	DY	71	PRO	N-CA-CB	5.05	109.36	103.30
1	A1	1757	G	C4-C5-N7	5.05	112.82	110.80
29	B1	1381	A	N3-C4-C5	5.05	130.34	126.80
29	D1	2353	G	C8-N9-C1'	-5.05	120.43	127.00
1	A1	1139	A	N9-C4-C5	-5.05	103.78	105.80
1	A1	1428	G	C4-C5-N7	5.05	112.82	110.80
29	B1	504	A	C4-N9-C1'	5.05	135.39	126.30
29	B1	2281	A	C4-C5-C6	5.05	119.53	117.00
29	B1	2989	U	N1-C2-O2	-5.05	119.26	122.80
29	D1	968	G	C2-N3-C4	-5.05	109.37	111.90
29	D1	1710	C	C5-C4-N4	-5.05	116.66	120.20
29	D1	2875	U	C2-N1-C1'	5.05	123.76	117.70
53	DX	23	PRO	N-CA-CB	5.05	109.36	103.30
29	B1	429	U	N1-C2-O2	-5.05	119.27	122.80
29	B1	3230	G	C5-C6-O6	5.05	131.63	128.60
1	C1	374	U	N3-C4-C5	5.05	117.63	114.60
29	D1	233	C	C6-N1-C2	5.05	122.32	120.30
29	D1	1507	G	C5-N7-C8	-5.05	101.78	104.30
29	B1	7	C	N1-C2-O2	5.05	121.93	118.90
29	B1	1658	G	C2-N3-C4	-5.05	109.38	111.90
29	D1	2719	U	C5-C6-N1	-5.05	120.18	122.70
1	A1	1006	C	N1-C2-O2	-5.05	115.87	118.90
1	A1	1136	U	N1-C2-O2	5.05	126.33	122.80
29	B1	677	A	C4-C5-N7	5.05	113.22	110.70
29	B1	1002	A	N1-C6-N6	-5.05	115.57	118.60
29	B1	1618	G	C2-N3-C4	5.05	114.42	111.90
29	B1	1902	G	C6-C5-N7	-5.05	127.37	130.40
1	C1	1028	C	N3-C4-C5	5.05	123.92	121.90
29	D1	675	C	N3-C4-C5	5.05	123.92	121.90
29	D1	790	U	N1-C2-O2	-5.05	119.27	122.80
29	D1	1303	A	N3-C4-C5	5.05	130.33	126.80
29	B1	1550	C	N3-C2-O2	5.04	125.43	121.90
29	B1	2275	A	C2-N3-C4	-5.04	108.08	110.60
29	D1	2681	U	C5-C6-N1	5.04	125.22	122.70
29	D1	3244	A	N1-C2-N3	-5.04	126.78	129.30
38	DG	193	PRO	N-CA-CB	5.04	109.35	103.30
29	B1	644	G	N1-C6-O6	5.04	122.93	119.90
29	B1	729	C	N3-C2-O2	-5.04	118.37	121.90
29	B1	831	G	C8-N9-C4	5.04	108.42	106.40
29	B1	984	G	C4-N9-C1'	-5.04	119.94	126.50
29	B1	1152	G	N3-C4-N9	-5.04	122.97	126.00
29	B1	2525	G	N3-C4-C5	5.04	131.12	128.60

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2685	C	C2-N1-C1'	5.04	124.35	118.80
29	B1	2917	G	C4-N9-C1'	-5.04	119.94	126.50
29	B1	2973	G	C8-N9-C4	5.04	108.42	106.40
29	B1	3312	U	N1-C2-O2	5.04	126.33	122.80
30	B2	10	C	C5-C6-N1	5.04	123.52	121.00
30	B2	96	U	N1-C2-O2	-5.04	119.27	122.80
31	B3	10	A	C8-N9-C4	-5.04	103.78	105.80
1	C1	318	U	C5-C6-N1	-5.04	120.18	122.70
1	C1	1754	A	C6-N1-C2	-5.04	115.57	118.60
11	CJ	124	PRO	N-CA-CB	5.04	109.35	103.30
29	D1	566	G	N1-C6-O6	-5.04	116.87	119.90
29	D1	944	C	C2-N1-C1'	-5.04	113.25	118.80
29	D1	1063	G	C2-N3-C4	-5.04	109.38	111.90
1	A1	1669	U	N1-C2-O2	-5.04	119.27	122.80
29	B1	790	U	N3-C4-C5	5.04	117.62	114.60
29	B1	2755	C	C6-N1-C2	5.04	122.32	120.30
1	C1	59	C	N3-C2-O2	-5.04	118.37	121.90
1	C1	425	A	C5-C6-N1	5.04	120.22	117.70
29	D1	910	G	C4-C5-N7	5.04	112.82	110.80
29	D1	1786	G	C4-C5-N7	-5.04	108.78	110.80
29	B1	822	G	C4-N9-C1'	-5.04	119.95	126.50
29	B1	1868	G	N3-C4-C5	5.04	131.12	128.60
29	B1	3200	G	N3-C4-N9	-5.04	122.98	126.00
1	C1	384	G	C8-N9-C4	5.04	108.42	106.40
29	D1	744	A	N3-C4-C5	-5.04	123.27	126.80
29	D1	1899	G	C5-N7-C8	5.04	106.82	104.30
29	D1	2607	G	C4-C5-C6	5.04	121.82	118.80
29	D1	2909	U	C5-C6-N1	-5.04	120.18	122.70
1	A1	1124	A	C8-N9-C4	5.04	107.81	105.80
29	B1	630	A	C5-N7-C8	-5.04	101.38	103.90
29	B1	3114	A	N7-C8-N9	-5.04	111.28	113.80
30	B2	47	C	C4-C5-C6	-5.04	114.88	117.40
41	BJ	178	ARG	N-CA-C	5.04	124.61	111.00
1	C1	1377	U	C6-N1-C1'	-5.04	114.15	121.20
29	D1	343	U	N1-C2-O2	5.04	126.33	122.80
29	D1	563	U	C5-C6-N1	5.04	125.22	122.70
29	D1	2149	A	C8-N9-C4	5.04	107.81	105.80
29	D1	2982	A	C4-C5-C6	-5.04	114.48	117.00
29	D1	3332	U	C2-N1-C1'	-5.04	111.66	117.70
1	C1	1634	C	N1-C2-O2	5.04	121.92	118.90
29	D1	281	G	C5-C6-O6	-5.04	125.58	128.60
29	D1	3038	U	C3'-C2'-C1'	5.04	105.53	101.50

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1365	C	N1-C2-O2	-5.04	115.88	118.90
1	A1	1418	G	N7-C8-N9	5.04	115.62	113.10
1	A1	1428	G	C6-C5-N7	-5.04	127.38	130.40
1	A1	1547	A	N3-C4-C5	5.04	130.32	126.80
29	B1	304	G	N9-C4-C5	-5.04	103.39	105.40
29	B1	882	A	C5-N7-C8	5.04	106.42	103.90
29	B1	909	G	C2-N3-C4	-5.04	109.38	111.90
29	B1	2610	G	C5-C6-N1	5.04	114.02	111.50
29	B1	2653	C	C5-C4-N4	-5.04	116.67	120.20
29	B1	3130	A	C5-C6-N6	-5.04	119.67	123.70
29	B1	3328	G	C8-N9-C4	5.04	108.42	106.40
1	C1	364	G	C4-C5-N7	-5.04	108.79	110.80
29	D1	724	U	C2-N3-C4	-5.04	123.98	127.00
29	D1	2883	U	C4-C5-C6	5.04	122.72	119.70
29	D1	3200	G	N1-C6-O6	-5.04	116.88	119.90
30	D2	49	G	N3-C4-N9	5.04	129.02	126.00
45	DP	109	PRO	N-CA-CB	5.04	109.34	103.30
29	B1	669	U	N3-C4-O4	5.03	122.92	119.40
29	B1	719	U	C4-C5-C6	-5.03	116.68	119.70
29	B1	1404	G	C2-N3-C4	-5.03	109.38	111.90
29	B1	2668	U	N3-C2-O2	-5.03	118.68	122.20
29	B1	2828	G	C8-N9-C1'	-5.03	120.46	127.00
29	B1	3069	G	C4-C5-N7	5.03	112.81	110.80
1	C1	797	G	C8-N9-C4	5.03	108.41	106.40
29	D1	327	A	C4-C5-C6	5.03	119.52	117.00
29	D1	529	A	N3-C4-C5	5.03	130.32	126.80
29	D1	1170	A	N1-C6-N6	5.03	121.62	118.60
29	D1	1877	U	N3-C2-O2	-5.03	118.68	122.20
29	B1	362	U	C5-C4-O4	-5.03	122.88	125.90
29	B1	857	G	C5-C6-N1	-5.03	108.98	111.50
29	D1	352	A	C6-C5-N7	5.03	135.82	132.30
1	A1	306	U	C2-N3-C4	-5.03	123.98	127.00
1	A1	1008	G	C8-N9-C1'	-5.03	120.46	127.00
29	B1	98	G	C5-C6-N1	-5.03	108.98	111.50
29	B1	834	U	C2-N3-C4	5.03	130.02	127.00
29	B1	1190	A	C8-N9-C4	-5.03	103.79	105.80
29	B1	2935	U	N1-C2-O2	-5.03	119.28	122.80
29	B1	3210	A	N3-C4-C5	5.03	130.32	126.80
1	C1	563	U	N1-C2-O2	5.03	126.32	122.80
1	C1	1144	U	N3-C4-O4	-5.03	115.88	119.40
1	C1	1417	A	N9-C4-C5	-5.03	103.79	105.80
29	B1	215	G	N7-C8-N9	5.03	115.61	113.10

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	556	U	C2-N3-C4	5.03	130.02	127.00
29	B1	103	G	C4-C5-N7	5.03	112.81	110.80
29	B1	364	G	C4-N9-C1'	5.03	133.04	126.50
29	B1	536	U	N3-C4-O4	5.03	122.92	119.40
1	C1	246	G	C8-N9-C1'	5.03	133.54	127.00
1	C1	784	C	N3-C4-C5	5.03	123.91	121.90
1	C1	1756	A	N7-C8-N9	5.03	116.31	113.80
29	D1	2144	A	C8-N9-C4	5.03	107.81	105.80
29	B1	916	G	C4-N9-C1'	5.03	133.03	126.50
29	B1	1305	U	C2-N1-C1'	-5.03	111.67	117.70
29	B1	3269	U	C6-N1-C1'	-5.03	114.17	121.20
31	B3	129	C	C6-N1-C2	5.03	122.31	120.30
29	D1	1097	G	N3-C4-N9	-5.03	122.98	126.00
29	D1	1314	C	N3-C2-O2	-5.03	118.38	121.90
29	D1	3024	A	C2-N3-C4	-5.03	108.09	110.60
1	A1	1429	G	N9-C4-C5	5.02	107.41	105.40
29	B1	693	A	C4-C5-C6	5.02	119.51	117.00
29	B1	1405	U	C5-C6-N1	-5.02	120.19	122.70
29	B1	3096	C	N1-C2-O2	-5.02	115.89	118.90
1	C1	1004	U	N3-C2-O2	-5.02	118.68	122.20
29	D1	304	G	N3-C4-N9	5.02	129.01	126.00
29	D1	1703	U	C5-C4-O4	5.02	128.91	125.90
29	D1	3100	U	N3-C2-O2	-5.02	118.68	122.20
29	B1	727	G	C6-C5-N7	-5.02	127.39	130.40
29	B1	815	G	N1-C6-O6	5.02	122.91	119.90
29	B1	1586	G	C5-C6-O6	5.02	131.61	128.60
29	B1	1793	C	C6-N1-C1'	-5.02	114.77	120.80
29	B1	2183	A	N7-C8-N9	5.02	116.31	113.80
29	B1	2315	G	C5-C6-O6	-5.02	125.59	128.60
29	D1	3038	U	C5-C4-O4	-5.02	122.89	125.90
30	D2	120	C	N1-C2-N3	5.02	122.72	119.20
29	B1	674	G	C4-C5-N7	5.02	112.81	110.80
1	C1	757	A	C4-C5-C6	5.02	119.51	117.00
1	C1	1073	G	C2-N3-C4	5.02	114.41	111.90
29	B1	518	G	N1-C2-N2	5.02	120.72	116.20
29	B1	651	G	N1-C2-N3	5.02	126.91	123.90
29	B1	859	G	C6-N1-C2	-5.02	122.09	125.10
29	B1	1494	U	C5-C6-N1	-5.02	120.19	122.70
29	B1	3208	G	C5-C6-N1	5.02	114.01	111.50
1	C1	1486	G	C6-N1-C2	5.02	128.11	125.10
29	D1	380	U	C2-N3-C4	5.02	130.01	127.00
29	D1	1518	U	C2-N3-C4	-5.02	123.99	127.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2768	U	C6-N1-C2	5.02	124.01	121.00
29	D1	3130	A	C4-N9-C1'	5.02	135.34	126.30
1	A1	1579	U	C6-N1-C1'	-5.02	114.18	121.20
29	B1	529	A	N3-C4-N9	-5.02	123.39	127.40
29	B1	744	A	C6-C5-N7	5.02	135.81	132.30
29	B1	2146	C	N3-C2-O2	-5.02	118.39	121.90
29	B1	2267	C	N3-C2-O2	5.02	125.41	121.90
29	B1	3243	A	C5-C6-N1	5.02	120.21	117.70
30	B2	26	C	N3-C4-C5	5.02	123.91	121.90
1	C1	1472	C	N3-C2-O2	-5.02	118.39	121.90
29	D1	1120	A	N3-C4-C5	-5.02	123.29	126.80
29	D1	2935	U	C2-N3-C4	-5.02	123.99	127.00
29	D1	3258	U	N3-C4-C5	-5.02	111.59	114.60
33	DB	188	LYS	N-CA-C	-5.02	97.45	111.00
29	B1	1840	U	C2-N1-C1'	-5.02	111.68	117.70
29	B1	2436	U	N3-C2-O2	5.02	125.71	122.20
29	B1	3124	G	N3-C2-N2	-5.02	116.39	119.90
30	B2	8	G	C5-C6-N1	5.02	114.01	111.50
29	D1	288	C	C4-C5-C6	5.02	119.91	117.40
29	D1	1134	G	N3-C4-N9	-5.02	122.99	126.00
29	D1	2366	C	N3-C4-C5	5.02	123.91	121.90
29	D1	2906	C	C2-N3-C4	-5.02	117.39	119.90
29	D1	3279	A	C5-C6-N1	-5.02	115.19	117.70
1	A1	1097	U	C2-N1-C1'	-5.01	111.68	117.70
1	A1	1422	A	C5-C6-N1	5.01	120.21	117.70
29	B1	790	U	C2-N1-C1'	-5.01	111.68	117.70
29	B1	934	G	C4-N9-C1'	5.01	133.02	126.50
29	B1	1874	A	N1-C2-N3	5.01	131.81	129.30
29	B1	2385	G	C8-N9-C1'	-5.01	120.48	127.00
43	BN	14	LEU	N-CA-C	5.01	124.54	111.00
1	C1	1541	G	N1-C2-N2	-5.01	111.69	116.20
29	D1	3030	G	N1-C6-O6	5.01	122.91	119.90
29	B1	2869	U	C6-N1-C2	-5.01	117.99	121.00
31	B3	92	A	N3-C4-N9	-5.01	123.39	127.40
29	D1	834	U	C5-C4-O4	5.01	128.91	125.90
29	D1	1169	A	C6-C5-N7	5.01	135.81	132.30
29	D1	2722	U	N3-C4-O4	5.01	122.91	119.40
43	DN	54	PRO	N-CA-CB	5.01	109.31	103.30
29	B1	608	A	C5-N7-C8	-5.01	101.39	103.90
29	B1	1389	G	C3'-C2'-C1'	5.01	105.51	101.50
29	B1	3060	C	N1-C2-O2	-5.01	115.89	118.90
57	Bb	31	ASN	N-CA-C	5.01	124.53	111.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	569	C	C5-C4-N4	-5.01	116.69	120.20
1	C1	587	C	N1-C2-O2	5.01	121.91	118.90
1	C1	1760	G	C2-N3-C4	5.01	114.41	111.90
29	D1	2342	U	C2-N3-C4	-5.01	123.99	127.00
29	D1	2896	A	N1-C2-N3	5.01	131.81	129.30
31	D3	102	U	N1-C2-O2	-5.01	119.29	122.80
29	B1	68	C	C6-N1-C2	-5.01	118.30	120.30
29	B1	2889	C	N3-C4-C5	5.01	123.90	121.90
29	D1	288	C	N1-C2-N3	5.01	122.71	119.20
29	D1	1141	C	N3-C4-C5	5.01	123.90	121.90
29	D1	3089	C	C2-N1-C1'	5.01	124.31	118.80
29	B1	2551	U	N3-C4-O4	5.01	122.91	119.40
1	C1	444	C	N1-C2-N3	-5.01	115.69	119.20
1	C1	1595	U	C6-N1-C2	-5.01	118.00	121.00
29	D1	597	G	C6-C5-N7	-5.01	127.39	130.40
29	D1	1420	C	C2-N1-C1'	-5.01	113.29	118.80
1	A1	125	U	C3'-C2'-C1'	5.01	105.50	101.50
1	A1	1653	C	N1-C2-O2	-5.01	115.90	118.90
30	B2	98	C	N3-C4-C5	5.01	123.90	121.90
29	D1	573	C	N1-C2-N3	5.01	122.70	119.20
29	D1	1928	G	N7-C8-N9	-5.01	110.60	113.10
29	D1	2988	C	N3-C4-C5	5.01	123.90	121.90
29	D1	3136	G	C8-N9-C4	-5.01	104.40	106.40
29	D1	3352	U	N1-C2-O2	5.01	126.30	122.80
29	B1	2201	G	C4-C5-N7	5.00	112.80	110.80
29	D1	614	C	C4-C5-C6	-5.00	114.90	117.40
1	A1	1458	G	C8-N9-C4	-5.00	104.40	106.40
29	B1	15	C	C6-N1-C2	-5.00	118.30	120.30
29	B1	1804	A	C5-N7-C8	-5.00	101.40	103.90
29	D1	1621	A	N1-C6-N6	-5.00	115.60	118.60
29	D1	2368	A	C4-C5-C6	5.00	119.50	117.00
29	B1	2193	U	C3'-C2'-C1'	5.00	105.50	101.50
29	B1	3095	U	N3-C4-O4	5.00	122.90	119.40
1	C1	63	G	C4-C5-N7	-5.00	108.80	110.80
29	D1	2176	U	N3-C2-O2	-5.00	118.70	122.20
29	D1	2329	C	N3-C2-O2	5.00	125.40	121.90
29	D1	2661	G	N1-C6-O6	-5.00	116.90	119.90
29	D1	3207	U	C5-C6-N1	-5.00	120.20	122.70
29	D1	3332	U	C2-N3-C4	5.00	130.00	127.00
30	D2	117	A	C5-C6-N1	-5.00	115.20	117.70

There are no chirality outliers.

All (68) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	AB	224	PHE	Peptide
3	AB	225	LEU	Peptide
17	AP	28	ASN	Peptide
18	AQ	41	ILE	Peptide
23	Ab	14	UNK	Peptide
24	Ac	63	UNK	Peptide
29	B1	1884	A	Sidechain
29	B1	308	A	Sidechain
29	B1	3184	A	Sidechain
34	BC	239	PRO	Peptide
34	BC	313	HIS	Peptide
34	BC	4	ARG	Peptide
34	BC	95	THR	Peptide
34	BC	98	GLY	Peptide
35	BD	143	GLU	Peptide
36	BE	23	ARG	Peptide
37	BF	38	THR	Peptide
37	BF	60	ASP	Peptide
37	BF	69	PHE	Peptide
37	BF	91	VAL	Peptide
38	BG	165	ASP	Peptide
42	BK	51	ARG	Peptide
45	BP	121	PRO	Peptide
45	BP	130	LYS	Peptide
45	BP	56	ASP	Peptide
45	BP	58	LEU	Peptide
49	BT	49	GLN	Peptide
51	BV	54	LEU	Peptide
54	BY	1	MET	Peptide
54	BY	61	PHE	Peptide
56	Ba	24	SER	Peptide
57	Bb	122	PRO	Peptide
22	Bo	20	UNK	Peptide
3	CB	224	PHE	Peptide
3	CB	225	LEU	Peptide
17	CP	28	ASN	Peptide
18	CQ	41	ILE	Peptide
23	Cb	83	UNK	Peptide
29	D1	1884	A	Sidechain
29	D1	308	A	Sidechain
29	D1	3184	A	Sidechain
34	DC	239	PRO	Peptide

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Group
34	DC	281	LYS	Peptide
34	DC	313	HIS	Peptide
34	DC	4	ARG	Peptide
34	DC	95	THR	Peptide
34	DC	98	GLY	Peptide
35	DD	125	ALA	Peptide
35	DD	143	GLU	Peptide
36	DE	23	ARG	Peptide
37	DF	38	THR	Peptide
37	DF	60	ASP	Peptide
37	DF	69	PHE	Peptide
37	DF	91	VAL	Peptide
38	DG	165	ASP	Peptide
42	DK	51	ARG	Peptide
44	DO	187	ARG	Peptide
45	DP	121	PRO	Peptide
45	DP	130	LYS	Peptide
45	DP	57	PHE	Peptide
45	DP	58	LEU	Peptide
45	DP	75	ALA	Peptide
49	DT	49	GLN	Peptide
51	DV	54	LEU	Peptide
54	DY	1	MET	Peptide
54	DY	61	PHE	Peptide
56	Da	24	SER	Peptide
57	Db	122	PRO	Peptide

## 5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AA	218/252 (86%)	75 (34%)	68 (31%)	75 (34%)	0	0
2	CA	218/252 (86%)	78 (36%)	63 (29%)	77 (35%)	0	0
3	AB	217/254 (85%)	85 (39%)	54 (25%)	78 (36%)	0	0
3	CB	217/254 (85%)	81 (37%)	62 (29%)	74 (34%)	0	0
4	AC	187/240 (78%)	72 (38%)	56 (30%)	59 (32%)	0	0
4	CC	187/240 (78%)	69 (37%)	55 (29%)	63 (34%)	0	0
5	AD	165/225 (73%)	55 (33%)	46 (28%)	64 (39%)	0	0
5	CD	165/225 (73%)	58 (35%)	44 (27%)	63 (38%)	0	0
6	AE	153/197 (78%)	48 (31%)	54 (35%)	51 (33%)	0	0
6	CE	153/197 (78%)	48 (31%)	49 (32%)	56 (37%)	0	0
7	AF	75/156 (48%)	32 (43%)	18 (24%)	25 (33%)	0	0
7	CF	75/156 (48%)	31 (41%)	20 (27%)	24 (32%)	0	0
8	AG	115/151 (76%)	46 (40%)	38 (33%)	31 (27%)	0	0
8	CG	115/151 (76%)	49 (43%)	33 (29%)	33 (29%)	0	0
9	AH	126/137 (92%)	52 (41%)	38 (30%)	36 (29%)	0	0
9	CH	126/137 (92%)	51 (40%)	39 (31%)	36 (29%)	0	0
10	AI	119/142 (84%)	38 (32%)	40 (34%)	41 (34%)	0	0
10	CI	119/142 (84%)	43 (36%)	35 (29%)	41 (34%)	0	0
11	AJ	132/143 (92%)	57 (43%)	33 (25%)	42 (32%)	0	0
11	CJ	132/143 (92%)	52 (39%)	37 (28%)	43 (33%)	0	0
12	AK	65/136 (48%)	27 (42%)	16 (25%)	22 (34%)	0	0
12	CK	65/136 (48%)	28 (43%)	16 (25%)	21 (32%)	0	0
13	AL	116/146 (80%)	48 (41%)	34 (29%)	34 (29%)	0	0
13	CL	116/146 (80%)	48 (41%)	33 (28%)	35 (30%)	0	0
14	AM	100/144 (69%)	38 (38%)	28 (28%)	34 (34%)	0	0
14	CM	100/144 (69%)	36 (36%)	27 (27%)	37 (37%)	0	0
15	AN	109/121 (90%)	49 (45%)	30 (28%)	30 (28%)	0	0
15	CN	109/121 (90%)	49 (45%)	29 (27%)	31 (28%)	0	0
16	AO	125/130 (96%)	48 (38%)	40 (32%)	37 (30%)	0	0
16	CO	125/130 (96%)	49 (39%)	36 (29%)	40 (32%)	0	0
17	AP	114/145 (79%)	48 (42%)	24 (21%)	42 (37%)	0	0
17	CP	114/145 (79%)	45 (40%)	28 (25%)	41 (36%)	0	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	AQ	65/108 (60%)	28 (43%)	21 (32%)	16 (25%)	0	1
18	CQ	61/108 (56%)	28 (46%)	18 (30%)	15 (25%)	0	1
19	AR	45/67 (67%)	17 (38%)	12 (27%)	16 (36%)	0	0
19	CR	45/67 (67%)	17 (38%)	11 (24%)	17 (38%)	0	0
20	AS	37/56 (66%)	8 (22%)	14 (38%)	15 (40%)	0	0
20	CS	37/56 (66%)	8 (22%)	13 (35%)	16 (43%)	0	0
21	AT	309/319 (97%)	180 (58%)	71 (23%)	58 (19%)	0	2
21	CT	309/319 (97%)	184 (60%)	66 (21%)	59 (19%)	0	2
32	BA	211/217 (97%)	76 (36%)	67 (32%)	68 (32%)	0	0
32	DA	211/217 (97%)	76 (36%)	79 (37%)	56 (26%)	0	0
33	BB	228/254 (90%)	80 (35%)	55 (24%)	93 (41%)	0	0
33	DB	228/254 (90%)	83 (36%)	55 (24%)	90 (40%)	0	0
34	BC	362/387 (94%)	112 (31%)	100 (28%)	150 (41%)	0	0
34	DC	362/387 (94%)	109 (30%)	102 (28%)	151 (42%)	0	0
35	BD	266/362 (74%)	111 (42%)	79 (30%)	76 (29%)	0	0
35	DD	266/362 (74%)	109 (41%)	78 (29%)	79 (30%)	0	0
36	BE	285/297 (96%)	108 (38%)	82 (29%)	95 (33%)	0	0
36	DE	285/297 (96%)	105 (37%)	79 (28%)	101 (35%)	0	0
37	BF	174/176 (99%)	44 (25%)	62 (36%)	68 (39%)	0	0
37	DF	174/176 (99%)	43 (25%)	61 (35%)	70 (40%)	0	0
38	BG	211/244 (86%)	85 (40%)	62 (29%)	64 (30%)	0	0
38	DG	211/244 (86%)	89 (42%)	60 (28%)	62 (29%)	0	0
39	BH	171/256 (67%)	59 (34%)	58 (34%)	54 (32%)	0	0
39	DH	171/256 (67%)	60 (35%)	62 (36%)	49 (29%)	0	0
40	BI	189/191 (99%)	76 (40%)	60 (32%)	53 (28%)	0	0
40	DI	189/191 (99%)	79 (42%)	57 (30%)	53 (28%)	0	0
41	BJ	204/221 (92%)	80 (39%)	52 (26%)	72 (35%)	0	0
41	DJ	204/221 (92%)	75 (37%)	55 (27%)	74 (36%)	0	0
42	BK	163/174 (94%)	57 (35%)	42 (26%)	64 (39%)	0	0
42	DK	163/174 (94%)	56 (34%)	46 (28%)	61 (37%)	0	0
43	BN	118/138 (86%)	27 (23%)	44 (37%)	47 (40%)	0	0

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
43	DN	118/138 (86%)	28 (24%)	39 (33%)	51 (43%)	0	0
44	BO	185/204 (91%)	77 (42%)	49 (26%)	59 (32%)	0	0
44	DO	185/204 (91%)	76 (41%)	53 (29%)	56 (30%)	0	0
45	BP	194/199 (98%)	81 (42%)	56 (29%)	57 (29%)	0	0
45	DP	194/199 (98%)	77 (40%)	62 (32%)	55 (28%)	0	0
46	BQ	152/184 (83%)	62 (41%)	44 (29%)	46 (30%)	0	0
46	DQ	152/184 (83%)	62 (41%)	45 (30%)	45 (30%)	0	0
47	BR	141/186 (76%)	63 (45%)	28 (20%)	50 (36%)	0	0
47	DR	141/186 (76%)	59 (42%)	32 (23%)	50 (36%)	0	0
48	BS	186/189 (98%)	104 (56%)	57 (31%)	25 (13%)	0	4
48	DS	186/189 (98%)	101 (54%)	60 (32%)	25 (13%)	0	4
49	BT	117/160 (73%)	53 (45%)	18 (15%)	46 (39%)	0	0
49	DT	117/160 (73%)	50 (43%)	23 (20%)	44 (38%)	0	0
50	BU	127/137 (93%)	64 (50%)	28 (22%)	35 (28%)	0	0
50	DU	127/137 (93%)	70 (55%)	21 (16%)	36 (28%)	0	0
51	BV	57/155 (37%)	14 (25%)	19 (33%)	24 (42%)	0	0
51	DV	57/155 (37%)	15 (26%)	16 (28%)	26 (46%)	0	0
52	BW	92/142 (65%)	30 (33%)	30 (33%)	32 (35%)	0	0
52	DW	92/142 (65%)	32 (35%)	28 (30%)	32 (35%)	0	0
53	BX	105/127 (83%)	53 (50%)	28 (27%)	24 (23%)	0	1
53	DX	105/127 (83%)	55 (52%)	30 (29%)	20 (19%)	0	2
54	BY	147/149 (99%)	37 (25%)	47 (32%)	63 (43%)	0	0
54	DY	147/149 (99%)	36 (24%)	51 (35%)	60 (41%)	0	0
55	BZ	96/105 (91%)	48 (50%)	28 (29%)	20 (21%)	0	1
55	DZ	96/105 (91%)	51 (53%)	28 (29%)	17 (18%)	0	2
56	Ba	84/113 (74%)	27 (32%)	27 (32%)	30 (36%)	0	0
56	Da	84/113 (74%)	25 (30%)	28 (33%)	31 (37%)	0	0
57	Bb	123/130 (95%)	39 (32%)	28 (23%)	56 (46%)	0	0
57	Db	123/130 (95%)	41 (33%)	31 (25%)	51 (42%)	0	0
58	Bc	66/120 (55%)	28 (42%)	23 (35%)	15 (23%)	0	1
58	Dc	66/120 (55%)	28 (42%)	26 (39%)	12 (18%)	0	2

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
59	Bd	70/88 (80%)	19 (27%)	20 (29%)	31 (44%)	0	0
59	Dd	70/88 (80%)	17 (24%)	24 (34%)	29 (41%)	0	0
60	Be	46/51 (90%)	25 (54%)	8 (17%)	13 (28%)	0	0
60	De	46/51 (90%)	22 (48%)	12 (26%)	12 (26%)	0	1
61	Bf	93/106 (88%)	37 (40%)	28 (30%)	28 (30%)	0	0
61	Df	93/106 (88%)	37 (40%)	28 (30%)	28 (30%)	0	0
62	Bg	81/92 (88%)	31 (38%)	27 (33%)	23 (28%)	0	0
62	Dg	81/92 (88%)	32 (40%)	24 (30%)	25 (31%)	0	0
72	DL	136/165 (82%)	42 (31%)	42 (31%)	52 (38%)	0	0
73	DM	126/312 (40%)	48 (38%)	31 (25%)	47 (37%)	0	0
All	All	14930/18123 (82%)	5798 (39%)	4273 (29%)	4859 (32%)	0	0

All (4859) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AA	11	PRO
2	AA	13	ASP
2	AA	14	ALA
2	AA	21	ASN
2	AA	24	LEU
2	AA	36	TYR
2	AA	40	ALA
2	AA	41	ARG
2	AA	42	PRO
2	AA	43	ASP
2	AA	45	VAL
2	AA	49	ASN
2	AA	65	ALA
2	AA	70	PRO
2	AA	71	GLU
2	AA	94	GLY
2	AA	97	PRO
2	AA	113	ARG
2	AA	117	GLU
2	AA	118	PRO
2	AA	121	VAL
2	AA	124	THR
2	AA	126	PRO

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
2	AA	140	ASN
2	AA	143	VAL
2	AA	159	ALA
2	AA	160	ILE
2	AA	161	PRO
2	AA	163	ASN
2	AA	172	LEU
2	AA	187	ALA
2	AA	193	GLN
2	AA	194	PRO
2	AA	202	TYR
2	AA	204	TYR
2	AA	220	THR
3	AB	37	PRO
3	AB	38	VAL
3	AB	59	HIS
3	AB	62	PRO
3	AB	66	PHE
3	AB	68	ILE
3	AB	73	LEU
3	AB	74	PRO
3	AB	84	LYS
3	AB	85	PRO
3	AB	125	ILE
3	AB	126	ARG
3	AB	133	LYS
3	AB	134	LEU
3	AB	135	SER
3	AB	136	VAL
3	AB	139	ILE
3	AB	140	ARG
3	AB	143	TYR
3	AB	147	ASN
3	AB	151	PRO
3	AB	159	THR
3	AB	164	SER
3	AB	165	VAL
3	AB	166	THR
3	AB	189	GLN
3	AB	193	VAL
3	AB	196	VAL
3	AB	209	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	AB	220	ASN
3	AB	225	LEU
3	AB	234	PRO
3	AB	235	LEU
3	AB	236	PRO
3	AB	237	VAL
3	AB	238	SER
3	AB	239	PRO
3	AB	240	LEU
3	AB	243	TYR
4	AC	8	LYS
4	AC	9	ARG
4	AC	16	VAL
4	AC	22	ASN
4	AC	28	GLU
4	AC	37	VAL
4	AC	43	PRO
4	AC	66	ILE
4	AC	69	LEU
4	AC	70	THR
4	AC	76	ARG
4	AC	79	TYR
4	AC	80	ALA
4	AC	81	PRO
4	AC	94	ARG
4	AC	96	LEU
4	AC	98	ALA
4	AC	100	ALA
4	AC	131	ALA
4	AC	136	VAL
4	AC	145	ALA
4	AC	152	PHE
4	AC	157	LEU
4	AC	162	GLN
4	AC	163	PRO
4	AC	167	PHE
4	AC	168	ILE
4	AC	174	HIS
4	AC	175	VAL
5	AD	40	ILE
5	AD	46	TRP
5	AD	53	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
5	AD	57	SER
5	AD	61	TYR
5	AD	66	GLN
5	AD	87	CYS
5	AD	88	PRO
5	AD	90	ILE
5	AD	91	GLU
5	AD	92	ARG
5	AD	93	LEU
5	AD	94	THR
5	AD	128	ASN
5	AD	129	PRO
5	AD	160	VAL
5	AD	162	VAL
5	AD	163	SER
5	AD	164	PRO
5	AD	182	ALA
5	AD	184	PHE
5	AD	187	ILE
5	AD	195	ALA
5	AD	216	GLU
6	AE	39	LYS
6	AE	41	GLU
6	AE	55	ALA
6	AE	56	ALA
6	AE	64	GLU
6	AE	67	PRO
6	AE	81	VAL
6	AE	82	ARG
6	AE	83	VAL
6	AE	85	VAL
6	AE	99	LEU
6	AE	100	LYS
6	AE	106	GLU
6	AE	112	GLN
6	AE	121	SER
6	AE	122	VAL
6	AE	124	HIS
6	AE	130	THR
6	AE	131	GLN
6	AE	132	ARG
6	AE	140	ILE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
6	AE	141	VAL
6	AE	143	ILE
6	AE	146	PHE
6	AE	152	SER
6	AE	153	GLU
6	AE	169	PRO
6	AE	174	ARG
7	AF	70	ILE
7	AF	80	MET
7	AF	83	THR
7	AF	86	ILE
7	AF	90	TYR
7	AF	94	ILE
7	AF	95	PRO
7	AF	98	ASN
7	AF	111	VAL
7	AF	112	SER
7	AF	113	PRO
7	AF	125	VAL
7	AF	130	PRO
7	AF	133	LYS
8	AG	46	THR
8	AG	47	PRO
8	AG	50	ILE
8	AG	62	GLN
8	AG	65	VAL
8	AG	69	ASN
8	AG	71	ILE
8	AG	82	PRO
8	AG	84	ILE
8	AG	85	PRO
8	AG	86	GLU
8	AG	126	ALA
8	AG	132	VAL
8	AG	135	LEU
8	AG	136	PRO
8	AG	137	PRO
9	AH	4	VAL
9	AH	23	PHE
9	AH	26	THR
9	AH	40	ALA
9	AH	42	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
9	AH	43	THR
9	AH	50	ALA
9	AH	64	ALA
9	AH	65	GLN
9	AH	67	VAL
9	AH	79	VAL
9	AH	94	PRO
9	AH	96	PRO
9	AH	101	ALA
9	AH	122	PRO
9	AH	128	LYS
10	AI	11	VAL
10	AI	13	LYS
10	AI	23	GLU
10	AI	38	PRO
10	AI	51	SER
10	AI	53	PRO
10	AI	61	ARG
10	AI	68	PRO
10	AI	73	PRO
10	AI	75	PRO
10	AI	80	MET
10	AI	85	ILE
10	AI	86	VAL
10	AI	121	ILE
10	AI	125	PRO
11	AJ	34	SER
11	AJ	35	PRO
11	AJ	36	ILE
11	AJ	38	LEU
11	AJ	42	GLU
11	AJ	57	LEU
11	AJ	61	SER
11	AJ	63	ILE
11	AJ	70	THR
11	AJ	74	HIS
11	AJ	85	ILE
11	AJ	97	VAL
11	AJ	105	LEU
11	AJ	118	ILE
11	AJ	126	PRO
11	AJ	136	SER

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
12	AK	22	PRO
12	AK	26	LEU
12	AK	29	GLN
12	AK	38	ILE
12	AK	39	ALA
12	AK	44	LYS
12	AK	60	ARG
12	AK	65	PRO
12	AK	69	ILE
13	AL	18	LEU
13	AL	27	LYS
13	AL	65	GLU
13	AL	66	LEU
13	AL	71	GLN
13	AL	72	ILE
13	AL	74	GLN
13	AL	75	ASN
13	AL	79	TYR
13	AL	80	LYS
13	AL	81	ILE
13	AL	98	TYR
13	AL	99	HIS
13	AL	102	ALA
13	AL	117	LYS
13	AL	118	LYS
14	AM	2	PRO
14	AM	4	VAL
14	AM	8	ASP
14	AM	9	VAL
14	AM	25	GLN
14	AM	36	ILE
14	AM	68	ARG
14	AM	110	LYS
14	AM	111	ILE
14	AM	113	ILE
14	AM	117	SER
14	AM	119	LYS
14	AM	125	SER
14	AM	126	GLU
14	AM	127	ASN
14	AM	129	GLN
15	AN	13	GLU

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
15	AN	14	GLN
15	AN	15	GLN
15	AN	24	ILE
15	AN	31	VAL
15	AN	45	ALA
15	AN	50	LEU
15	AN	55	PRO
15	AN	59	PRO
15	AN	72	ASN
15	AN	76	SER
15	AN	93	LEU
15	AN	96	PRO
15	AN	108	ILE
15	AN	113	ASP
15	AN	117	VAL
16	AO	5	SER
16	AO	24	GLN
16	AO	27	ILE
16	AO	28	ARG
16	AO	29	PRO
16	AO	30	SER
16	AO	31	SER
16	AO	38	LEU
16	AO	63	VAL
16	AO	76	SER
16	AO	77	PRO
16	AO	79	PHE
16	AO	85	ASP
16	AO	86	ILE
16	AO	95	PRO
16	AO	97	ARG
16	AO	99	PHE
16	AO	100	GLY
16	AO	103	ILE
16	AO	106	THR
16	AO	118	ARG
16	AO	120	HIS
16	AO	126	LEU
17	AP	37	ALA
17	AP	48	HIS
17	AP	49	ALA
17	AP	59	ILE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
17	AP	64	PRO
17	AP	70	LYS
17	AP	78	LYS
17	AP	87	VAL
17	AP	90	ASP
17	AP	104	LEU
17	AP	105	ALA
17	AP	108	GLY
17	AP	119	GLY
17	AP	124	VAL
17	AP	127	VAL
17	AP	130	VAL
17	AP	135	LEU
17	AP	138	GLU
18	AQ	42	LEU
18	AQ	57	TYR
18	AQ	71	ILE
18	AQ	85	LYS
18	AQ	88	ILE
18	AQ	90	LYS
18	AQ	91	PRO
18	AQ	97	LYS
19	AR	10	ALA
19	AR	14	LYS
19	AR	15	VAL
19	AR	34	GLU
19	AR	39	THR
19	AR	44	VAL
20	AS	20	GLN
20	AS	24	CYS
20	AS	26	SER
20	AS	27	HIS
20	AS	34	TYR
20	AS	43	PHE
20	AS	48	ASN
21	AT	2	ALA
21	AT	48	THR
21	AT	66	HIS
21	AT	100	TYR
21	AT	119	ALA
21	AT	189	GLU
21	AT	195	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
21	AT	198	ASN
21	AT	241	PHE
21	AT	247	PRO
21	AT	269	TYR
21	AT	281	TYR
21	AT	295	SER
32	BA	24	LYS
32	BA	36	VAL
32	BA	39	LYS
32	BA	42	ASP
32	BA	43	PRO
32	BA	55	LEU
32	BA	56	PRO
32	BA	58	CYS
32	BA	59	PRO
32	BA	60	ARG
32	BA	61	PRO
32	BA	109	ALA
32	BA	115	VAL
32	BA	120	VAL
32	BA	122	ARG
32	BA	124	LEU
32	BA	126	PRO
32	BA	127	GLN
32	BA	128	LEU
32	BA	129	SER
32	BA	135	PRO
32	BA	143	ASP
32	BA	151	VAL
32	BA	174	MET
32	BA	201	VAL
32	BA	207	LYS
32	BA	208	SER
32	BA	209	SER
32	BA	210	MET
32	BA	212	PRO
33	BB	5	ILE
33	BB	13	GLY
33	BB	14	SER
33	BB	16	PHE
33	BB	24	GLN
33	BB	26	ALA

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	BB	38	HIS
33	BB	50	HIS
33	BB	61	VAL
33	BB	65	ASP
33	BB	79	ASN
33	BB	83	HIS
33	BB	84	THR
33	BB	90	ALA
33	BB	98	VAL
33	BB	107	VAL
33	BB	108	PRO
33	BB	110	GLY
33	BB	111	THR
33	BB	120	PRO
33	BB	136	ILE
33	BB	137	ILE
33	BB	139	HIS
33	BB	141	PRO
33	BB	148	VAL
33	BB	149	ARG
33	BB	152	SER
33	BB	166	ILE
33	BB	176	ASP
33	BB	178	PRO
33	BB	182	ALA
33	BB	188	LYS
33	BB	197	PRO
33	BB	199	THR
33	BB	207	VAL
33	BB	208	ASP
33	BB	210	PRO
33	BB	211	HIS
33	BB	217	GLN
33	BB	219	ILE
33	BB	220	GLY
33	BB	222	ALA
33	BB	230	VAL
33	BB	233	GLN
33	BB	234	LYS
33	BB	235	ALA
33	BB	237	LEU
33	BB	241	ARG

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
33	BB	242	ARG
33	BB	243	THR
34	BC	3	HIS
34	BC	12	GLY
34	BC	21	ARG
34	BC	23	ALA
34	BC	33	PRO
34	BC	40	PRO
34	BC	41	VAL
34	BC	42	ALA
34	BC	43	LEU
34	BC	44	THR
34	BC	47	LEU
34	BC	61	ASP
34	BC	63	PRO
34	BC	68	HIS
34	BC	71	GLU
34	BC	81	THR
34	BC	83	PRO
34	BC	86	VAL
34	BC	89	VAL
34	BC	93	VAL
34	BC	94	GLU
34	BC	97	ARG
34	BC	104	THR
34	BC	105	VAL
34	BC	106	TRP
34	BC	109	HIS
34	BC	113	GLU
34	BC	117	ARG
34	BC	122	TRP
34	BC	123	TYR
34	BC	131	THR
34	BC	132	LYS
34	BC	137	TYR
34	BC	139	GLN
34	BC	143	GLY
34	BC	153	LYS
34	BC	158	VAL
34	BC	160	VAL
34	BC	165	GLN
34	BC	166	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	BC	167	ARG
34	BC	170	PRO
34	BC	173	GLN
34	BC	174	LYS
34	BC	175	LYS
34	BC	176	ALA
34	BC	187	SER
34	BC	188	ILE
34	BC	192	VAL
34	BC	197	GLU
34	BC	200	GLU
34	BC	209	PHE
34	BC	220	VAL
34	BC	221	THR
34	BC	238	LEU
34	BC	239	PRO
34	BC	244	ARG
34	BC	248	LYS
34	BC	257	PRO
34	BC	259	HIS
34	BC	264	VAL
34	BC	270	ARG
34	BC	272	TYR
34	BC	274	SER
34	BC	275	ARG
34	BC	279	ASN
34	BC	284	ARG
34	BC	296	THR
34	BC	301	THR
34	BC	306	THR
34	BC	307	PRO
34	BC	317	ILE
34	BC	318	LYS
34	BC	320	ASP
34	BC	324	VAL
34	BC	327	CYS
34	BC	331	ASN
34	BC	333	LYS
34	BC	335	ILE
34	BC	346	THR
34	BC	351	LEU
34	BC	359	ILE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
35	BD	8	VAL
35	BD	19	ALA
35	BD	21	PRO
35	BD	23	PRO
35	BD	24	ALA
35	BD	28	ALA
35	BD	54	GLU
35	BD	69	ARG
35	BD	77	VAL
35	BD	90	PHE
35	BD	98	ARG
35	BD	100	PHE
35	BD	102	PRO
35	BD	107	ARG
35	BD	116	ASN
35	BD	131	VAL
35	BD	140	HIS
35	BD	149	PRO
35	BD	150	LEU
35	BD	159	ILE
35	BD	160	GLN
35	BD	166	VAL
35	BD	182	LEU
35	BD	194	TYR
35	BD	212	ASP
35	BD	239	ALA
35	BD	252	GLU
35	BD	254	ALA
35	BD	257	LYS
35	BD	258	LEU
35	BD	261	VAL
35	BD	265	GLU
35	BD	266	THR
35	BD	267	VAL
35	BD	274	TYR
36	BE	12	TYR
36	BE	13	SER
36	BE	17	GLN
36	BE	18	THR
36	BE	19	PRO
36	BE	21	ARG
36	BE	32	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
36	BE	46	THR
36	BE	47	PRO
36	BE	48	LYS
36	BE	49	TYR
36	BE	50	ARG
36	BE	68	THR
36	BE	69	ILE
36	BE	78	ALA
36	BE	83	LEU
36	BE	84	PRO
36	BE	88	ILE
36	BE	100	ALA
36	BE	101	THR
36	BE	139	PRO
36	BE	148	ILE
36	BE	151	GLN
36	BE	159	VAL
36	BE	160	PHE
36	BE	171	LEU
36	BE	174	PRO
36	BE	178	ASN
36	BE	185	PHE
36	BE	191	ASP
36	BE	200	PHE
36	BE	211	LEU
36	BE	214	ASP
36	BE	231	ILE
36	BE	234	ASP
36	BE	238	ASP
36	BE	239	ILE
36	BE	246	ALA
36	BE	256	THR
36	BE	271	LYS
36	BE	293	LEU
37	BF	4	GLN
37	BF	6	ALA
37	BF	7	PRO
37	BF	10	TYR
37	BF	11	PRO
37	BF	13	GLU
37	BF	16	ALA
37	BF	26	ARG

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
37	BF	27	PRO
37	BF	28	GLN
37	BF	32	ALA
37	BF	33	SER
37	BF	34	LEU
37	BF	39	VAL
37	BF	44	ALA
37	BF	47	PHE
37	BF	52	VAL
37	BF	53	VAL
37	BF	68	PRO
37	BF	70	LYS
37	BF	71	VAL
37	BF	85	ILE
37	BF	86	ALA
37	BF	90	LYS
37	BF	92	SER
37	BF	93	VAL
37	BF	99	GLU
37	BF	106	PHE
37	BF	109	GLU
37	BF	110	LYS
37	BF	116	LYS
37	BF	118	GLU
37	BF	121	LEU
37	BF	122	PHE
37	BF	126	GLN
37	BF	137	ASP
37	BF	144	ALA
37	BF	146	ILE
37	BF	150	LYS
37	BF	151	LYS
37	BF	167	ASN
37	BF	172	HIS
37	BF	174	LEU
38	BG	32	ALA
38	BG	49	ALA
38	BG	50	ALA
38	BG	74	SER
38	BG	81	HIS
38	BG	82	LYS
38	BG	84	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
38	BG	85	PHE
38	BG	86	VAL
38	BG	96	PRO
38	BG	97	PRO
38	BG	112	ASN
38	BG	136	TYR
38	BG	138	TYR
38	BG	148	VAL
38	BG	149	TYR
38	BG	156	ILE
38	BG	160	ARG
38	BG	162	PRO
38	BG	177	GLY
38	BG	180	SER
38	BG	188	ILE
38	BG	193	PRO
38	BG	195	PHE
38	BG	202	LEU
38	BG	204	PRO
38	BG	206	LYS
38	BG	210	PRO
38	BG	217	PRO
38	BG	223	PHE
38	BG	224	ILE
38	BG	228	SER
38	BG	229	PHE
38	BG	232	ARG
38	BG	233	GLU
38	BG	234	GLU
39	BH	96	LYS
39	BH	98	ARG
39	BH	99	PRO
39	BH	109	LEU
39	BH	110	THR
39	BH	128	LYS
39	BH	131	ALA
39	BH	132	VAL
39	BH	151	VAL
39	BH	181	LYS
39	BH	194	THR
39	BH	201	THR
39	BH	203	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
39	BH	209	ALA
39	BH	210	ALA
39	BH	212	ALA
39	BH	214	LEU
39	BH	227	ASP
39	BH	233	TRP
39	BH	238	LEU
39	BH	245	LYS
39	BH	249	ARG
40	BI	2	LYS
40	BI	5	GLN
40	BI	22	SER
40	BI	30	PRO
40	BI	41	ILE
40	BI	43	VAL
40	BI	46	THR
40	BI	53	ILE
40	BI	86	TYR
40	BI	104	VAL
40	BI	110	LYS
40	BI	122	LYS
40	BI	127	PRO
40	BI	138	THR
40	BI	140	VAL
40	BI	141	LYS
40	BI	142	ASP
40	BI	167	VAL
40	BI	169	ASN
40	BI	170	LYS
40	BI	172	ILE
40	BI	186	PHE
40	BI	189	GLU
41	BJ	5	PRO
41	BJ	11	TYR
41	BJ	13	LYS
41	BJ	14	ASN
41	BJ	16	PRO
41	BJ	17	TYR
41	BJ	25	ALA
41	BJ	29	SER
41	BJ	34	TYR
41	BJ	39	LYS

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	BJ	43	VAL
41	BJ	46	PHE
41	BJ	48	LEU
41	BJ	57	LEU
41	BJ	61	SER
41	BJ	70	ILE
41	BJ	92	HIS
41	BJ	115	MET
41	BJ	136	PHE
41	BJ	145	LYS
41	BJ	147	VAL
41	BJ	160	PRO
41	BJ	162	GLN
41	BJ	169	LYS
41	BJ	178	ARG
41	BJ	190	VAL
41	BJ	201	SER
41	BJ	208	ASN
42	BK	8	PRO
42	BK	15	GLU
42	BK	18	VAL
42	BK	23	VAL
42	BK	32	ARG
42	BK	34	SER
42	BK	45	PRO
42	BK	47	GLN
42	BK	49	LYS
42	BK	50	ALA
42	BK	52	TYR
42	BK	54	VAL
42	BK	55	ARG
42	BK	56	THR
42	BK	62	ASN
42	BK	65	ILE
42	BK	66	ALA
42	BK	69	VAL
42	BK	76	ALA
42	BK	85	LYS
42	BK	86	VAL
42	BK	88	GLU
42	BK	102	PHE
42	BK	108	GLU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
42	BK	110	ILE
42	BK	115	LYS
42	BK	118	PRO
42	BK	120	ILE
42	BK	122	ILE
42	BK	129	VAL
42	BK	132	ASN
42	BK	133	ARG
42	BK	134	PRO
42	BK	143	ARG
42	BK	148	VAL
42	BK	154	THR
43	BN	10	SER
43	BN	15	VAL
43	BN	19	ARG
43	BN	20	VAL
43	BN	23	ILE
43	BN	24	LYS
43	BN	25	LYS
43	BN	27	GLN
43	BN	29	ALA
43	BN	43	LYS
43	BN	54	PRO
43	BN	55	ARG
43	BN	59	ASN
43	BN	60	LEU
43	BN	62	GLN
43	BN	63	VAL
43	BN	64	VAL
43	BN	66	THR
43	BN	67	PRO
43	BN	70	PHE
43	BN	81	VAL
43	BN	82	SER
43	BN	90	VAL
43	BN	103	ILE
43	BN	111	ALA
43	BN	126	GLN
43	BN	127	LYS
44	BO	17	ASP
44	BO	30	TYR
44	BO	35	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
44	BO	39	ALA
44	BO	42	PRO
44	BO	46	ASP
44	BO	53	TYR
44	BO	54	LYS
44	BO	55	ALA
44	BO	60	VAL
44	BO	75	VAL
44	BO	76	PRO
44	BO	79	ALA
44	BO	80	THR
44	BO	83	LYS
44	BO	84	PRO
44	BO	96	ARG
44	BO	97	SER
44	BO	98	LEU
44	BO	121	VAL
44	BO	127	TYR
44	BO	136	ASP
44	BO	156	HIS
44	BO	161	ALA
45	BP	5	PRO
45	BP	12	LYS
45	BP	16	VAL
45	BP	23	VAL
45	BP	37	ARG
45	BP	38	ALA
45	BP	61	ALA
45	BP	66	LYS
45	BP	70	PRO
45	BP	75	ALA
45	BP	76	PRO
45	BP	83	ALA
45	BP	100	GLU
45	BP	108	ILE
45	BP	109	PRO
45	BP	110	PRO
45	BP	112	TYR
45	BP	115	LYS
45	BP	120	VAL
45	BP	121	PRO
45	BP	125	ARG

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
45	BP	126	VAL
45	BP	128	ARG
45	BP	131	PRO
45	BP	134	LYS
45	BP	147	TRP
45	BP	188	SER
46	BQ	9	THR
46	BQ	10	ASN
46	BQ	12	ALA
46	BQ	20	SER
46	BQ	30	ARG
46	BQ	33	ALA
46	BQ	52	LEU
46	BQ	56	ARG
46	BQ	69	ARG
46	BQ	71	ALA
46	BQ	75	GLU
46	BQ	83	TRP
46	BQ	84	PRO
46	BQ	106	GLY
46	BQ	110	THR
46	BQ	114	VAL
46	BQ	118	GLN
46	BQ	122	ALA
46	BQ	123	PRO
46	BQ	142	SER
47	BR	18	ALA
47	BR	19	PRO
47	BR	22	ASP
47	BR	39	ARG
47	BR	42	ALA
47	BR	43	PRO
47	BR	60	PRO
47	BR	61	PRO
47	BR	76	ALA
47	BR	93	ILE
47	BR	94	PHE
47	BR	97	PRO
47	BR	103	ALA
47	BR	104	LEU
47	BR	108	ALA
47	BR	110	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
47	BR	111	ARG
47	BR	112	ALA
47	BR	117	ALA
47	BR	123	THR
47	BR	143	PRO
47	BR	145	ASN
47	BR	153	PHE
48	BS	19	LYS
48	BS	60	LYS
48	BS	104	ARG
48	BS	106	LEU
48	BS	130	ASN
48	BS	133	LYS
48	BS	134	HIS
48	BS	135	LYS
48	BS	143	ILE
49	BT	9	SER
49	BT	15	PHE
49	BT	16	GLN
49	BT	31	LEU
49	BT	32	LYS
49	BT	34	TYR
49	BT	35	LYS
49	BT	43	LYS
49	BT	46	GLY
49	BT	49	GLN
49	BT	54	HIS
49	BT	64	VAL
49	BT	66	ASN
49	BT	67	VAL
49	BT	69	LYS
49	BT	70	SER
49	BT	75	ILE
49	BT	76	ILE
49	BT	79	MET
49	BT	81	GLY
49	BT	85	LEU
49	BT	98	HIS
49	BT	110	LYS
50	BU	19	VAL
50	BU	31	ALA
50	BU	40	LYS

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
50	BU	46	LEU
50	BU	47	ASN
50	BU	66	LYS
50	BU	81	GLN
50	BU	94	TYR
50	BU	95	PHE
50	BU	97	ASP
50	BU	105	PRO
50	BU	112	SER
50	BU	131	SER
50	BU	134	GLY
50	BU	135	VAL
51	BV	3	VAL
51	BV	4	GLU
51	BV	5	ILE
51	BV	6	ASP
51	BV	8	PHE
51	BV	22	VAL
51	BV	23	ARG
51	BV	25	ASP
51	BV	28	ILE
51	BV	29	PHE
51	BV	33	ASN
51	BV	34	SER
51	BV	52	THR
51	BV	57	LYS
52	BW	49	LYS
52	BW	51	VAL
52	BW	52	PRO
52	BW	53	HIS
52	BW	58	ASP
52	BW	61	LYS
52	BW	62	VAL
52	BW	64	GLU
52	BW	66	PRO
52	BW	67	ILE
52	BW	70	GLU
52	BW	84	PHE
52	BW	102	LEU
52	BW	106	ASP
52	BW	129	ASP
52	BW	130	TYR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
53	BX	19	TYR
53	BX	20	PHE
53	BX	58	VAL
53	BX	59	VAL
53	BX	79	ALA
53	BX	100	HIS
53	BX	101	PRO
54	BY	2	PRO
54	BY	3	SER
54	BY	9	ARG
54	BY	10	LYS
54	BY	12	ARG
54	BY	21	ARG
54	BY	22	ILE
54	BY	27	LYS
54	BY	30	GLY
54	BY	34	MET
54	BY	36	GLY
54	BY	40	HIS
54	BY	43	ILE
54	BY	44	ASN
54	BY	50	PRO
54	BY	56	VAL
54	BY	60	TYR
54	BY	61	PHE
54	BY	69	TRP
54	BY	74	ASN
54	BY	78	LEU
54	BY	79	TRP
54	BY	85	ASP
54	BY	88	ASP
54	BY	90	TYR
54	BY	91	LEU
54	BY	94	ALA
54	BY	98	THR
54	BY	102	ILE
54	BY	112	ILE
54	BY	114	GLY
54	BY	117	ARG
54	BY	118	ILE
54	BY	119	PRO
54	BY	130	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
54	BY	132	LYS
54	BY	148	ILE
55	BZ	27	TYR
55	BZ	63	SER
55	BZ	83	LYS
55	BZ	86	ARG
55	BZ	89	VAL
56	Ba	6	ASP
56	Ba	7	VAL
56	Ba	14	ILE
56	Ba	15	ASN
56	Ba	16	LEU
56	Ba	25	PHE
56	Ba	29	ALA
56	Ba	44	MET
56	Ba	47	ASP
56	Ba	59	ILE
56	Ba	60	TRP
56	Ba	61	LYS
56	Ba	79	ARG
56	Ba	85	ALA
57	Bb	6	HIS
57	Bb	7	PRO
57	Bb	12	LYS
57	Bb	20	HIS
57	Bb	22	SER
57	Bb	30	GLU
57	Bb	33	ARG
57	Bb	50	ILE
57	Bb	52	GLN
57	Bb	53	PRO
57	Bb	55	ILE
57	Bb	56	GLY
57	Bb	61	LYS
57	Bb	64	LYS
57	Bb	68	PRO
57	Bb	69	SER
57	Bb	79	VAL
57	Bb	84	THR
57	Bb	96	ILE
57	Bb	101	SER
57	Bb	109	LEU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
57	Bb	110	ALA
57	Bb	121	ASN
58	Bc	18	ALA
58	Bc	38	ARG
58	Bc	40	SER
59	Bd	5	THR
59	Bd	8	PHE
59	Bd	28	HIS
59	Bd	29	VAL
59	Bd	35	SER
59	Bd	42	ALA
59	Bd	47	TYR
59	Bd	64	MET
59	Bd	65	ARG
59	Bd	67	LEU
59	Bd	68	LYS
59	Bd	71	SER
60	Be	27	ILE
60	Be	44	TRP
60	Be	45	ARG
61	Bf	5	PRO
61	Bf	13	LYS
61	Bf	34	SER
61	Bf	47	GLN
61	Bf	53	GLN
61	Bf	66	LYS
61	Bf	93	LEU
62	Bg	16	VAL
62	Bg	18	TYR
62	Bg	34	HIS
62	Bg	35	ALA
62	Bg	37	TYR
62	Bg	48	LYS
62	Bg	49	ARG
62	Bg	53	GLY
62	Bg	54	ILE
62	Bg	55	TRP
62	Bg	71	VAL
62	Bg	81	SER
62	Bg	83	ILE
2	CA	11	PRO
2	CA	13	ASP

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
2	CA	14	ALA
2	CA	24	LEU
2	CA	36	TYR
2	CA	40	ALA
2	CA	41	ARG
2	CA	42	PRO
2	CA	43	ASP
2	CA	45	VAL
2	CA	49	ASN
2	CA	65	ALA
2	CA	70	PRO
2	CA	71	GLU
2	CA	89	PHE
2	CA	94	GLY
2	CA	97	PRO
2	CA	113	ARG
2	CA	117	GLU
2	CA	118	PRO
2	CA	126	PRO
2	CA	140	ASN
2	CA	143	VAL
2	CA	159	ALA
2	CA	161	PRO
2	CA	163	ASN
2	CA	172	LEU
2	CA	193	GLN
2	CA	194	PRO
2	CA	202	TYR
2	CA	204	TYR
2	CA	220	THR
3	CB	37	PRO
3	CB	59	HIS
3	CB	62	PRO
3	CB	63	VAL
3	CB	66	PHE
3	CB	68	ILE
3	CB	73	LEU
3	CB	74	PRO
3	CB	84	LYS
3	CB	85	PRO
3	CB	125	ILE
3	CB	126	ARG

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	CB	133	LYS
3	CB	135	SER
3	CB	136	VAL
3	CB	139	ILE
3	CB	140	ARG
3	CB	143	TYR
3	CB	147	ASN
3	CB	151	PRO
3	CB	159	THR
3	CB	161	LYS
3	CB	164	SER
3	CB	165	VAL
3	CB	166	THR
3	CB	186	LYS
3	CB	189	GLN
3	CB	193	VAL
3	CB	196	VAL
3	CB	204	THR
3	CB	209	ASN
3	CB	220	ASN
3	CB	225	LEU
3	CB	234	PRO
3	CB	235	LEU
3	CB	236	PRO
3	CB	237	VAL
3	CB	238	SER
3	CB	239	PRO
3	CB	243	TYR
4	CC	8	LYS
4	CC	9	ARG
4	CC	16	VAL
4	CC	17	PHE
4	CC	22	ASN
4	CC	28	GLU
4	CC	37	VAL
4	CC	43	PRO
4	CC	66	ILE
4	CC	69	LEU
4	CC	70	THR
4	CC	74	GLN
4	CC	76	ARG
4	CC	79	TYR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
4	CC	80	ALA
4	CC	81	PRO
4	CC	94	ARG
4	CC	96	LEU
4	CC	100	ALA
4	CC	131	ALA
4	CC	136	VAL
4	CC	145	ALA
4	CC	152	PHE
4	CC	157	LEU
4	CC	162	GLN
4	CC	163	PRO
4	CC	167	PHE
4	CC	168	ILE
4	CC	174	HIS
4	CC	175	VAL
4	CC	193	ALA
5	CD	40	ILE
5	CD	42	LEU
5	CD	47	SER
5	CD	56	ALA
5	CD	57	SER
5	CD	64	VAL
5	CD	65	ARG
5	CD	66	GLN
5	CD	88	PRO
5	CD	89	ILE
5	CD	92	ARG
5	CD	108	LEU
5	CD	129	PRO
5	CD	140	THR
5	CD	160	VAL
5	CD	162	VAL
5	CD	163	SER
5	CD	164	PRO
5	CD	166	ARG
5	CD	167	ARG
5	CD	182	ALA
5	CD	184	PHE
5	CD	187	ILE
5	CD	216	GLU
6	CE	39	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
6	CE	41	GLU
6	CE	55	ALA
6	CE	56	ALA
6	CE	64	GLU
6	CE	66	ASP
6	CE	67	PRO
6	CE	81	VAL
6	CE	82	ARG
6	CE	83	VAL
6	CE	99	LEU
6	CE	100	LYS
6	CE	106	GLU
6	CE	112	GLN
6	CE	121	SER
6	CE	122	VAL
6	CE	124	HIS
6	CE	130	THR
6	CE	131	GLN
6	CE	132	ARG
6	CE	140	ILE
6	CE	141	VAL
6	CE	143	ILE
6	CE	152	SER
6	CE	153	GLU
6	CE	169	PRO
6	CE	174	ARG
7	CF	70	ILE
7	CF	80	MET
7	CF	83	THR
7	CF	86	ILE
7	CF	90	TYR
7	CF	94	ILE
7	CF	95	PRO
7	CF	98	ASN
7	CF	111	VAL
7	CF	112	SER
7	CF	113	PRO
7	CF	125	VAL
7	CF	130	PRO
7	CF	133	LYS
8	CG	46	THR
8	CG	47	PRO

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
8	CG	50	ILE
8	CG	58	HIS
8	CG	62	GLN
8	CG	65	VAL
8	CG	69	ASN
8	CG	71	ILE
8	CG	82	PRO
8	CG	84	ILE
8	CG	85	PRO
8	CG	86	GLU
8	CG	126	ALA
8	CG	132	VAL
8	CG	135	LEU
8	CG	136	PRO
8	CG	137	PRO
9	CH	4	VAL
9	CH	23	PHE
9	CH	26	THR
9	CH	40	ALA
9	CH	42	VAL
9	CH	43	THR
9	CH	50	ALA
9	CH	65	GLN
9	CH	67	VAL
9	CH	79	VAL
9	CH	94	PRO
9	CH	96	PRO
9	CH	101	ALA
9	CH	122	PRO
10	CI	11	VAL
10	CI	13	LYS
10	CI	23	GLU
10	CI	34	VAL
10	CI	38	PRO
10	CI	45	PHE
10	CI	51	SER
10	CI	53	PRO
10	CI	61	ARG
10	CI	68	PRO
10	CI	73	PRO
10	CI	75	PRO
10	CI	80	MET

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
10	CI	85	ILE
10	CI	86	VAL
10	CI	121	ILE
10	CI	125	PRO
11	CJ	34	SER
11	CJ	35	PRO
11	CJ	36	ILE
11	CJ	38	LEU
11	CJ	42	GLU
11	CJ	57	LEU
11	CJ	61	SER
11	CJ	63	ILE
11	CJ	70	THR
11	CJ	85	ILE
11	CJ	90	VAL
11	CJ	97	VAL
11	CJ	105	LEU
11	CJ	118	ILE
11	CJ	126	PRO
12	CK	22	PRO
12	CK	26	LEU
12	CK	29	GLN
12	CK	38	ILE
12	CK	39	ALA
12	CK	44	LYS
12	CK	60	ARG
12	CK	65	PRO
12	CK	69	ILE
13	CL	18	LEU
13	CL	27	LYS
13	CL	47	CYS
13	CL	65	GLU
13	CL	66	LEU
13	CL	71	GLN
13	CL	72	ILE
13	CL	74	GLN
13	CL	75	ASN
13	CL	79	TYR
13	CL	80	LYS
13	CL	81	ILE
13	CL	98	TYR
13	CL	99	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
13	CL	102	ALA
13	CL	117	LYS
13	CL	118	LYS
14	CM	2	PRO
14	CM	8	ASP
14	CM	9	VAL
14	CM	25	GLN
14	CM	28	LEU
14	CM	29	GLU
14	CM	36	ILE
14	CM	68	ARG
14	CM	103	LYS
14	CM	110	LYS
14	CM	111	ILE
14	CM	113	ILE
14	CM	119	LYS
14	CM	125	SER
14	CM	126	GLU
14	CM	127	ASN
14	CM	129	GLN
15	CN	14	GLN
15	CN	15	GLN
15	CN	24	ILE
15	CN	31	VAL
15	CN	45	ALA
15	CN	50	LEU
15	CN	55	PRO
15	CN	59	PRO
15	CN	72	ASN
15	CN	76	SER
15	CN	84	MET
15	CN	93	LEU
15	CN	96	PRO
15	CN	108	ILE
15	CN	117	VAL
16	CO	5	SER
16	CO	24	GLN
16	CO	27	ILE
16	CO	28	ARG
16	CO	29	PRO
16	CO	30	SER
16	CO	31	SER

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
16	CO	38	LEU
16	CO	63	VAL
16	CO	76	SER
16	CO	77	PRO
16	CO	79	PHE
16	CO	85	ASP
16	CO	86	ILE
16	CO	95	PRO
16	CO	97	ARG
16	CO	99	PHE
16	CO	103	ILE
16	CO	106	THR
16	CO	118	ARG
16	CO	120	HIS
16	CO	126	LEU
17	CP	32	ARG
17	CP	33	LEU
17	CP	48	HIS
17	CP	49	ALA
17	CP	59	ILE
17	CP	64	PRO
17	CP	78	LYS
17	CP	87	VAL
17	CP	90	ASP
17	CP	104	LEU
17	CP	105	ALA
17	CP	108	GLY
17	CP	119	GLY
17	CP	124	VAL
17	CP	127	VAL
17	CP	130	VAL
17	CP	135	LEU
17	CP	138	GLU
18	CQ	57	TYR
18	CQ	71	ILE
18	CQ	85	LYS
18	CQ	88	ILE
18	CQ	90	LYS
18	CQ	91	PRO
18	CQ	97	LYS
19	CR	10	ALA
19	CR	14	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
19	CR	15	VAL
19	CR	34	GLU
19	CR	39	THR
19	CR	44	VAL
20	CS	20	GLN
20	CS	24	CYS
20	CS	26	SER
20	CS	34	TYR
20	CS	40	ARG
20	CS	43	PHE
20	CS	48	ASN
20	CS	52	PHE
21	CT	2	ALA
21	CT	48	THR
21	CT	66	HIS
21	CT	100	TYR
21	CT	119	ALA
21	CT	189	GLU
21	CT	195	HIS
21	CT	198	ASN
21	CT	231	MET
21	CT	237	GLN
21	CT	241	PHE
21	CT	269	TYR
21	CT	270	LEU
21	CT	281	TYR
21	CT	295	SER
32	DA	28	PHE
32	DA	31	THR
32	DA	36	VAL
32	DA	41	TYR
32	DA	43	PRO
32	DA	56	PRO
32	DA	57	ASN
32	DA	60	ARG
32	DA	111	ILE
32	DA	120	VAL
32	DA	121	PRO
32	DA	131	ALA
32	DA	134	PHE
32	DA	138	VAL
32	DA	142	ASP

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
32	DA	153	SER
32	DA	167	VAL
32	DA	169	VAL
32	DA	171	ASN
32	DA	173	GLU
32	DA	201	VAL
32	DA	205	VAL
32	DA	212	PRO
33	DB	5	ILE
33	DB	9	ARG
33	DB	13	GLY
33	DB	14	SER
33	DB	16	PHE
33	DB	24	GLN
33	DB	26	ALA
33	DB	38	HIS
33	DB	50	HIS
33	DB	61	VAL
33	DB	65	ASP
33	DB	79	ASN
33	DB	83	HIS
33	DB	84	THR
33	DB	90	ALA
33	DB	92	LYS
33	DB	98	VAL
33	DB	107	VAL
33	DB	108	PRO
33	DB	110	GLY
33	DB	111	THR
33	DB	120	PRO
33	DB	137	ILE
33	DB	139	HIS
33	DB	141	PRO
33	DB	149	ARG
33	DB	152	SER
33	DB	157	VAL
33	DB	163	ARG
33	DB	166	ILE
33	DB	176	ASP
33	DB	178	PRO
33	DB	182	ALA
33	DB	188	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
33	DB	197	PRO
33	DB	199	THR
33	DB	208	ASP
33	DB	210	PRO
33	DB	211	HIS
33	DB	216	HIS
33	DB	217	GLN
33	DB	219	ILE
33	DB	222	ALA
33	DB	230	VAL
33	DB	233	GLN
33	DB	234	LYS
33	DB	235	ALA
33	DB	237	LEU
33	DB	241	ARG
33	DB	242	ARG
33	DB	243	THR
34	DC	21	ARG
34	DC	23	ALA
34	DC	40	PRO
34	DC	41	VAL
34	DC	42	ALA
34	DC	43	LEU
34	DC	44	THR
34	DC	47	LEU
34	DC	51	ALA
34	DC	61	ASP
34	DC	63	PRO
34	DC	71	GLU
34	DC	81	THR
34	DC	82	PRO
34	DC	83	PRO
34	DC	86	VAL
34	DC	89	VAL
34	DC	93	VAL
34	DC	94	GLU
34	DC	97	ARG
34	DC	105	VAL
34	DC	106	TRP
34	DC	109	HIS
34	DC	110	LEU
34	DC	113	GLU

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	DC	117	ARG
34	DC	122	TRP
34	DC	123	TYR
34	DC	131	THR
34	DC	132	LYS
34	DC	137	TYR
34	DC	139	GLN
34	DC	143	GLY
34	DC	153	LYS
34	DC	157	VAL
34	DC	158	VAL
34	DC	160	VAL
34	DC	165	GLN
34	DC	166	ILE
34	DC	167	ARG
34	DC	170	PRO
34	DC	173	GLN
34	DC	174	LYS
34	DC	175	LYS
34	DC	176	ALA
34	DC	179	ALA
34	DC	181	ILE
34	DC	187	SER
34	DC	188	ILE
34	DC	197	GLU
34	DC	199	PHE
34	DC	200	GLU
34	DC	209	PHE
34	DC	220	VAL
34	DC	221	THR
34	DC	238	LEU
34	DC	239	PRO
34	DC	244	ARG
34	DC	248	LYS
34	DC	251	CYS
34	DC	259	HIS
34	DC	261	MET
34	DC	264	VAL
34	DC	270	ARG
34	DC	272	TYR
34	DC	274	SER
34	DC	279	ASN

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
34	DC	284	ARG
34	DC	286	GLY
34	DC	296	THR
34	DC	301	THR
34	DC	303	LYS
34	DC	306	THR
34	DC	307	PRO
34	DC	317	ILE
34	DC	318	LYS
34	DC	320	ASP
34	DC	324	VAL
34	DC	327	CYS
34	DC	331	ASN
34	DC	333	LYS
34	DC	335	ILE
34	DC	340	LYS
34	DC	346	THR
34	DC	351	LEU
34	DC	359	ILE
35	DD	19	ALA
35	DD	21	PRO
35	DD	23	PRO
35	DD	28	ALA
35	DD	54	GLU
35	DD	69	ARG
35	DD	77	VAL
35	DD	90	PHE
35	DD	100	PHE
35	DD	102	PRO
35	DD	107	ARG
35	DD	116	ASN
35	DD	131	VAL
35	DD	140	HIS
35	DD	149	PRO
35	DD	150	LEU
35	DD	154	THR
35	DD	159	ILE
35	DD	166	VAL
35	DD	182	LEU
35	DD	194	TYR
35	DD	239	ALA
35	DD	252	GLU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
35	DD	254	ALA
35	DD	257	LYS
35	DD	258	LEU
35	DD	261	VAL
35	DD	266	THR
35	DD	267	VAL
36	DE	12	TYR
36	DE	13	SER
36	DE	17	GLN
36	DE	18	THR
36	DE	19	PRO
36	DE	21	ARG
36	DE	32	GLN
36	DE	42	ALA
36	DE	43	LYS
36	DE	46	THR
36	DE	47	PRO
36	DE	48	LYS
36	DE	49	TYR
36	DE	50	ARG
36	DE	68	THR
36	DE	69	ILE
36	DE	78	ALA
36	DE	83	LEU
36	DE	84	PRO
36	DE	88	ILE
36	DE	101	THR
36	DE	122	VAL
36	DE	139	PRO
36	DE	148	ILE
36	DE	151	GLN
36	DE	159	VAL
36	DE	160	PHE
36	DE	171	LEU
36	DE	174	PRO
36	DE	178	ASN
36	DE	185	PHE
36	DE	191	ASP
36	DE	200	PHE
36	DE	211	LEU
36	DE	214	ASP
36	DE	231	ILE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
36	DE	234	ASP
36	DE	235	SER
36	DE	238	ASP
36	DE	239	ILE
36	DE	242	SER
36	DE	246	ALA
36	DE	256	THR
36	DE	271	LYS
36	DE	293	LEU
37	DF	4	GLN
37	DF	6	ALA
37	DF	7	PRO
37	DF	10	TYR
37	DF	11	PRO
37	DF	13	GLU
37	DF	21	THR
37	DF	27	PRO
37	DF	28	GLN
37	DF	32	ALA
37	DF	33	SER
37	DF	34	LEU
37	DF	39	VAL
37	DF	44	ALA
37	DF	47	PHE
37	DF	52	VAL
37	DF	53	VAL
37	DF	58	LEU
37	DF	68	PRO
37	DF	70	LYS
37	DF	71	VAL
37	DF	85	ILE
37	DF	90	LYS
37	DF	92	SER
37	DF	93	VAL
37	DF	99	GLU
37	DF	106	PHE
37	DF	109	GLU
37	DF	110	LYS
37	DF	116	LYS
37	DF	118	GLU
37	DF	122	PHE
37	DF	126	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
37	DF	137	ASP
37	DF	144	ALA
37	DF	146	ILE
37	DF	150	LYS
37	DF	151	LYS
37	DF	167	ASN
37	DF	172	HIS
37	DF	174	LEU
38	DG	32	ALA
38	DG	49	ALA
38	DG	50	ALA
38	DG	70	LYS
38	DG	81	HIS
38	DG	82	LYS
38	DG	84	VAL
38	DG	85	PHE
38	DG	86	VAL
38	DG	96	PRO
38	DG	97	PRO
38	DG	112	ASN
38	DG	136	TYR
38	DG	138	TYR
38	DG	148	VAL
38	DG	149	TYR
38	DG	156	ILE
38	DG	160	ARG
38	DG	162	PRO
38	DG	177	GLY
38	DG	180	SER
38	DG	188	ILE
38	DG	193	PRO
38	DG	195	PHE
38	DG	202	LEU
38	DG	204	PRO
38	DG	206	LYS
38	DG	210	PRO
38	DG	217	PRO
38	DG	220	PHE
38	DG	223	PHE
38	DG	224	ILE
38	DG	228	SER
38	DG	229	PHE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
38	DG	232	ARG
39	DH	96	LYS
39	DH	99	PRO
39	DH	109	LEU
39	DH	110	THR
39	DH	128	LYS
39	DH	131	ALA
39	DH	132	VAL
39	DH	151	VAL
39	DH	179	ILE
39	DH	181	LYS
39	DH	194	THR
39	DH	201	THR
39	DH	203	VAL
39	DH	210	ALA
39	DH	212	ALA
39	DH	214	LEU
39	DH	227	ASP
39	DH	233	TRP
39	DH	245	LYS
39	DH	249	ARG
40	DI	2	LYS
40	DI	5	GLN
40	DI	22	SER
40	DI	30	PRO
40	DI	41	ILE
40	DI	43	VAL
40	DI	46	THR
40	DI	53	ILE
40	DI	86	TYR
40	DI	104	VAL
40	DI	110	LYS
40	DI	122	LYS
40	DI	127	PRO
40	DI	138	THR
40	DI	140	VAL
40	DI	141	LYS
40	DI	142	ASP
40	DI	167	VAL
40	DI	169	ASN
40	DI	170	LYS
40	DI	171	ASP

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
40	DI	172	ILE
40	DI	186	PHE
40	DI	189	GLU
41	DJ	5	PRO
41	DJ	11	TYR
41	DJ	13	LYS
41	DJ	14	ASN
41	DJ	16	PRO
41	DJ	17	TYR
41	DJ	25	ALA
41	DJ	29	SER
41	DJ	34	TYR
41	DJ	39	LYS
41	DJ	43	VAL
41	DJ	46	PHE
41	DJ	48	LEU
41	DJ	56	GLU
41	DJ	57	LEU
41	DJ	70	ILE
41	DJ	92	HIS
41	DJ	115	MET
41	DJ	136	PHE
41	DJ	145	LYS
41	DJ	160	PRO
41	DJ	162	GLN
41	DJ	169	LYS
41	DJ	175	ASN
41	DJ	178	ARG
41	DJ	190	VAL
41	DJ	201	SER
41	DJ	208	ASN
42	DK	8	PRO
42	DK	18	VAL
42	DK	23	VAL
42	DK	32	ARG
42	DK	34	SER
42	DK	45	PRO
42	DK	49	LYS
42	DK	50	ALA
42	DK	54	VAL
42	DK	55	ARG
42	DK	56	THR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
42	DK	62	ASN
42	DK	65	ILE
42	DK	66	ALA
42	DK	69	VAL
42	DK	76	ALA
42	DK	77	GLU
42	DK	82	ARG
42	DK	85	LYS
42	DK	86	VAL
42	DK	88	GLU
42	DK	102	PHE
42	DK	108	GLU
42	DK	110	ILE
42	DK	115	LYS
42	DK	118	PRO
42	DK	120	ILE
42	DK	122	ILE
42	DK	129	VAL
42	DK	132	ASN
42	DK	133	ARG
42	DK	134	PRO
42	DK	143	ARG
42	DK	148	VAL
42	DK	154	THR
72	DL	10	VAL
72	DL	17	ALA
72	DL	18	VAL
72	DL	25	SER
72	DL	31	LYS
72	DL	35	LEU
72	DL	38	SER
72	DL	39	PRO
72	DL	49	ALA
72	DL	56	ILE
72	DL	58	VAL
72	DL	75	PRO
72	DL	77	ALA
72	DL	78	SER
72	DL	88	PRO
72	DL	90	ARG
72	DL	104	ILE
72	DL	106	LEU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
72	DL	112	ILE
72	DL	113	ALA
72	DL	124	THR
72	DL	141	CYS
73	DM	28	VAL
73	DM	30	VAL
73	DM	32	ASN
73	DM	33	VAL
73	DM	34	SER
73	DM	46	ARG
73	DM	60	ARG
73	DM	62	ALA
73	DM	70	LEU
73	DM	76	LEU
73	DM	77	LEU
73	DM	86	PHE
73	DM	91	GLU
73	DM	92	PRO
73	DM	100	ILE
73	DM	102	SER
73	DM	187	VAL
73	DM	188	VAL
73	DM	189	GLN
73	DM	191	TYR
73	DM	192	ASP
73	DM	198	PRO
43	DN	10	SER
43	DN	15	VAL
43	DN	19	ARG
43	DN	20	VAL
43	DN	23	ILE
43	DN	24	LYS
43	DN	25	LYS
43	DN	27	GLN
43	DN	29	ALA
43	DN	32	LEU
43	DN	43	LYS
43	DN	44	VAL
43	DN	54	PRO
43	DN	55	ARG
43	DN	60	LEU
43	DN	62	GLN

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
43	DN	63	VAL
43	DN	64	VAL
43	DN	66	THR
43	DN	67	PRO
43	DN	70	PHE
43	DN	74	ARG
43	DN	81	VAL
43	DN	82	SER
43	DN	90	VAL
43	DN	103	ILE
43	DN	111	ALA
43	DN	126	GLN
43	DN	127	LYS
44	DO	17	ASP
44	DO	30	TYR
44	DO	35	VAL
44	DO	39	ALA
44	DO	42	PRO
44	DO	46	ASP
44	DO	53	TYR
44	DO	54	LYS
44	DO	55	ALA
44	DO	60	VAL
44	DO	75	VAL
44	DO	76	PRO
44	DO	79	ALA
44	DO	83	LYS
44	DO	84	PRO
44	DO	96	ARG
44	DO	97	SER
44	DO	98	LEU
44	DO	121	VAL
44	DO	127	TYR
44	DO	136	ASP
44	DO	156	HIS
44	DO	160	GLU
44	DO	161	ALA
45	DP	5	PRO
45	DP	12	LYS
45	DP	19	LEU
45	DP	37	ARG
45	DP	61	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
45	DP	66	LYS
45	DP	69	GLY
45	DP	70	PRO
45	DP	75	ALA
45	DP	76	PRO
45	DP	77	SER
45	DP	100	GLU
45	DP	108	ILE
45	DP	109	PRO
45	DP	110	PRO
45	DP	112	TYR
45	DP	115	LYS
45	DP	116	LYS
45	DP	120	VAL
45	DP	121	PRO
45	DP	125	ARG
45	DP	126	VAL
45	DP	128	ARG
45	DP	131	PRO
45	DP	134	LYS
45	DP	138	LEU
45	DP	147	TRP
45	DP	188	SER
46	DQ	9	THR
46	DQ	10	ASN
46	DQ	12	ALA
46	DQ	20	SER
46	DQ	30	ARG
46	DQ	31	GLU
46	DQ	33	ALA
46	DQ	48	LEU
46	DQ	52	LEU
46	DQ	56	ARG
46	DQ	69	ARG
46	DQ	71	ALA
46	DQ	75	GLU
46	DQ	83	TRP
46	DQ	84	PRO
46	DQ	106	GLY
46	DQ	110	THR
46	DQ	114	VAL
46	DQ	118	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
46	DQ	122	ALA
46	DQ	123	PRO
46	DQ	142	SER
47	DR	18	ALA
47	DR	19	PRO
47	DR	22	ASP
47	DR	39	ARG
47	DR	42	ALA
47	DR	43	PRO
47	DR	60	PRO
47	DR	61	PRO
47	DR	76	ALA
47	DR	93	ILE
47	DR	97	PRO
47	DR	103	ALA
47	DR	104	LEU
47	DR	108	ALA
47	DR	110	ALA
47	DR	111	ARG
47	DR	112	ALA
47	DR	117	ALA
47	DR	123	THR
47	DR	143	PRO
47	DR	145	ASN
47	DR	146	SER
47	DR	153	PHE
48	DS	3	ASN
48	DS	12	ALA
48	DS	19	LYS
48	DS	130	ASN
48	DS	133	LYS
48	DS	134	HIS
48	DS	143	ILE
49	DT	16	GLN
49	DT	31	LEU
49	DT	32	LYS
49	DT	34	TYR
49	DT	35	LYS
49	DT	49	GLN
49	DT	54	HIS
49	DT	64	VAL
49	DT	66	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
49	DT	67	VAL
49	DT	70	SER
49	DT	75	ILE
49	DT	76	ILE
49	DT	79	MET
49	DT	81	GLY
49	DT	85	LEU
49	DT	98	HIS
49	DT	99	SER
49	DT	110	LYS
50	DU	19	VAL
50	DU	40	LYS
50	DU	46	LEU
50	DU	47	ASN
50	DU	54	LEU
50	DU	66	LYS
50	DU	80	ARG
50	DU	81	GLN
50	DU	82	ALA
50	DU	94	TYR
50	DU	95	PHE
50	DU	97	ASP
50	DU	98	ASN
50	DU	112	SER
50	DU	131	SER
50	DU	134	GLY
50	DU	135	VAL
51	DV	4	GLU
51	DV	5	ILE
51	DV	6	ASP
51	DV	8	PHE
51	DV	22	VAL
51	DV	23	ARG
51	DV	25	ASP
51	DV	28	ILE
51	DV	29	PHE
51	DV	33	ASN
51	DV	34	SER
51	DV	35	LYS
51	DV	52	THR
51	DV	57	LYS
52	DW	51	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
52	DW	52	PRO
52	DW	53	HIS
52	DW	58	ASP
52	DW	60	TYR
52	DW	61	LYS
52	DW	62	VAL
52	DW	64	GLU
52	DW	66	PRO
52	DW	67	ILE
52	DW	70	GLU
52	DW	84	PHE
52	DW	102	LEU
52	DW	104	GLU
52	DW	106	ASP
52	DW	129	ASP
53	DX	15	ALA
53	DX	19	TYR
53	DX	20	PHE
53	DX	58	VAL
53	DX	59	VAL
53	DX	101	PRO
54	DY	3	SER
54	DY	9	ARG
54	DY	10	LYS
54	DY	12	ARG
54	DY	21	ARG
54	DY	22	ILE
54	DY	27	LYS
54	DY	30	GLY
54	DY	36	GLY
54	DY	40	HIS
54	DY	43	ILE
54	DY	44	ASN
54	DY	50	PRO
54	DY	56	VAL
54	DY	60	TYR
54	DY	61	PHE
54	DY	62	HIS
54	DY	69	TRP
54	DY	74	ASN
54	DY	78	LEU
54	DY	79	TRP

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
54	DY	85	ASP
54	DY	88	ASP
54	DY	90	TYR
54	DY	91	LEU
54	DY	94	ALA
54	DY	98	THR
54	DY	102	ILE
54	DY	112	ILE
54	DY	114	GLY
54	DY	117	ARG
54	DY	118	ILE
54	DY	119	PRO
54	DY	127	ALA
54	DY	130	VAL
54	DY	132	LYS
54	DY	148	ILE
55	DZ	25	LEU
55	DZ	27	TYR
55	DZ	50	VAL
55	DZ	63	SER
55	DZ	83	LYS
55	DZ	86	ARG
55	DZ	89	VAL
56	Da	6	ASP
56	Da	7	VAL
56	Da	14	ILE
56	Da	15	ASN
56	Da	16	LEU
56	Da	25	PHE
56	Da	29	ALA
56	Da	44	MET
56	Da	47	ASP
56	Da	59	ILE
56	Da	60	TRP
56	Da	79	ARG
56	Da	85	ALA
57	Db	6	HIS
57	Db	7	PRO
57	Db	20	HIS
57	Db	22	SER
57	Db	24	ARG
57	Db	30	GLU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
57	Db	33	ARG
57	Db	50	ILE
57	Db	52	GLN
57	Db	53	PRO
57	Db	56	GLY
57	Db	61	LYS
57	Db	64	LYS
57	Db	68	PRO
57	Db	69	SER
57	Db	79	VAL
57	Db	96	ILE
57	Db	101	SER
57	Db	109	LEU
57	Db	110	ALA
57	Db	121	ASN
58	Dc	11	THR
58	Dc	38	ARG
58	Dc	40	SER
59	Dd	5	THR
59	Dd	38	GLY
59	Dd	42	ALA
59	Dd	47	TYR
59	Dd	64	MET
59	Dd	65	ARG
59	Dd	67	LEU
59	Dd	68	LYS
59	Dd	71	SER
60	De	27	ILE
60	De	33	ASN
60	De	35	ILE
60	De	45	ARG
61	Df	5	PRO
61	Df	9	LYS
61	Df	13	LYS
61	Df	34	SER
61	Df	53	GLN
61	Df	66	LYS
61	Df	88	CYS
61	Df	93	LEU
62	Dg	16	VAL
62	Dg	18	TYR
62	Dg	34	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
62	Dg	35	ALA
62	Dg	37	TYR
62	Dg	48	LYS
62	Dg	49	ARG
62	Dg	53	GLY
62	Dg	55	TRP
62	Dg	66	GLY
62	Dg	81	SER
62	Dg	82	THR
62	Dg	83	ILE
2	AA	26	ALA
2	AA	85	ALA
2	AA	89	PHE
2	AA	116	LYS
2	AA	128	SER
2	AA	131	GLN
2	AA	148	ASP
2	AA	164	ASN
2	AA	171	GLY
2	AA	177	LEU
2	AA	189	VAL
2	AA	192	THR
2	AA	198	MET
2	AA	207	PRO
2	AA	211	GLU
2	AA	212	GLN
3	AB	40	LYS
3	AB	63	VAL
3	AB	69	ILE
3	AB	75	GLY
3	AB	124	ALA
3	AB	127	ALA
3	AB	150	GLN
3	AB	154	LEU
3	AB	161	LYS
3	AB	167	VAL
3	AB	185	LYS
3	AB	186	LYS
3	AB	213	ALA
3	AB	214	ALA
3	AB	224	PHE
4	AC	17	PHE

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
4	AC	18	TYR
4	AC	55	THR
4	AC	61	GLU
4	AC	65	ARG
4	AC	74	GLN
4	AC	77	PHE
4	AC	95	GLY
4	AC	99	VAL
4	AC	130	GLY
4	AC	142	LEU
4	AC	143	ARG
4	AC	153	ALA
4	AC	159	HIS
4	AC	193	ALA
5	AD	43	PHE
5	AD	56	ALA
5	AD	60	ASP
5	AD	64	VAL
5	AD	89	ILE
5	AD	108	LEU
5	AD	113	ILE
5	AD	122	ASN
5	AD	140	THR
5	AD	144	GLU
5	AD	153	GLY
5	AD	166	ARG
5	AD	167	ARG
5	AD	181	GLU
5	AD	183	ALA
5	AD	197	GLU
5	AD	211	ILE
5	AD	215	ASP
6	AE	38	ASN
6	AE	63	ASP
6	AE	66	ASP
6	AE	88	GLU
6	AE	113	VAL
6	AE	133	HIS
6	AE	137	GLY
6	AE	139	GLN
6	AE	170	GLY
7	AF	96	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
7	AF	109	VAL
7	AF	121	ASP
7	AF	127	GLN
8	AG	52	VAL
8	AG	54	LEU
8	AG	58	HIS
8	AG	128	TYR
9	AH	6	GLN
9	AH	19	ILE
9	AH	25	ASP
9	AH	28	VAL
9	AH	45	GLY
9	AH	97	GLY
9	AH	124	ASP
10	AI	22	LEU
10	AI	28	MET
10	AI	32	ASP
10	AI	34	VAL
10	AI	35	LYS
10	AI	45	PHE
10	AI	65	LEU
10	AI	113	GLY
11	AJ	43	ILE
11	AJ	62	ASN
11	AJ	92	TYR
11	AJ	98	ASP
11	AJ	104	GLU
11	AJ	107	LYS
11	AJ	129	PHE
12	AK	33	ARG
12	AK	47	ARG
12	AK	56	HIS
12	AK	63	LYS
12	AK	68	GLY
13	AL	47	CYS
13	AL	84	TRP
13	AL	101	LEU
14	AM	28	LEU
14	AM	29	GLU
14	AM	51	GLU
14	AM	54	PHE
14	AM	58	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
14	AM	102	ARG
14	AM	103	LYS
14	AM	121	GLY
14	AM	122	ARG
15	AN	33	GLN
15	AN	37	VAL
15	AN	84	MET
15	AN	116	VAL
16	AO	22	LYS
16	AO	56	HIS
16	AO	62	VAL
16	AO	68	ARG
16	AO	72	CYS
16	AO	113	HIS
17	AP	32	ARG
17	AP	33	LEU
17	AP	41	SER
17	AP	42	PRO
17	AP	100	ASP
17	AP	114	LYS
17	AP	122	PHE
17	AP	129	GLY
17	AP	139	LYS
18	AQ	41	ILE
18	AQ	66	VAL
18	AQ	86	GLU
19	AR	28	VAL
19	AR	29	ARG
19	AR	41	VAL
19	AR	45	LYS
20	AS	16	LYS
20	AS	39	CYS
20	AS	40	ARG
20	AS	44	ARG
20	AS	47	ALA
20	AS	49	ASP
20	AS	52	PHE
21	AT	21	THR
21	AT	28	GLY
21	AT	49	GLY
21	AT	59	ARG
21	AT	95	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
21	AT	108	SER
21	AT	112	SER
21	AT	140	CYS
21	AT	149	ASP
21	AT	176	LYS
21	AT	186	PHE
21	AT	188	ILE
21	AT	196	ASN
21	AT	202	LEU
21	AT	203	THR
21	AT	231	MET
21	AT	237	GLN
21	AT	244	ALA
21	AT	270	LEU
21	AT	283	LYS
21	AT	298	GLY
32	BA	25	LYS
32	BA	26	ARG
32	BA	41	TYR
32	BA	44	GLN
32	BA	47	LYS
32	BA	67	ILE
32	BA	77	ALA
32	BA	96	ASN
32	BA	117	ILE
32	BA	123	LEU
32	BA	169	VAL
32	BA	193	LEU
32	BA	194	LEU
32	BA	196	LYS
32	BA	197	ASN
32	BA	204	LEU
32	BA	206	VAL
33	BB	9	ARG
33	BB	19	HIS
33	BB	54	ARG
33	BB	92	LYS
33	BB	103	PRO
33	BB	118	GLU
33	BB	121	GLY
33	BB	122	ASP
33	BB	134	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
33	BB	151	PRO
33	BB	163	ARG
33	BB	165	VAL
33	BB	169	ILE
33	BB	171	GLY
33	BB	183	GLY
33	BB	212	GLY
33	BB	216	HIS
33	BB	227	ARG
33	BB	231	SER
34	BC	2	SER
34	BC	7	GLU
34	BC	30	LYS
34	BC	37	ARG
34	BC	45	SER
34	BC	51	ALA
34	BC	69	LYS
34	BC	82	PRO
34	BC	92	TYR
34	BC	101	SER
34	BC	107	ALA
34	BC	134	SER
34	BC	148	LEU
34	BC	157	VAL
34	BC	179	ALA
34	BC	181	ILE
34	BC	194	TRP
34	BC	198	HIS
34	BC	203	VAL
34	BC	208	VAL
34	BC	224	HIS
34	BC	241	LYS
34	BC	251	CYS
34	BC	260	VAL
34	BC	286	GLY
34	BC	294	GLY
34	BC	305	ILE
34	BC	340	LYS
34	BC	343	TYR
34	BC	348	ARG
34	BC	361	THR
35	BD	16	THR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
35	BD	33	ASP
35	BD	55	LYS
35	BD	66	GLY
35	BD	68	GLY
35	BD	83	GLY
35	BD	135	VAL
35	BD	154	THR
35	BD	181	VAL
35	BD	189	ALA
35	BD	190	GLY
35	BD	193	LYS
35	BD	204	GLY
35	BD	238	LEU
36	BE	10	SER
36	BE	20	PHE
36	BE	29	ASP
36	BE	40	HIS
36	BE	42	ALA
36	BE	43	LYS
36	BE	45	ASN
36	BE	95	TRP
36	BE	111	GLN
36	BE	120	LYS
36	BE	122	VAL
36	BE	131	LEU
36	BE	140	ARG
36	BE	158	ARG
36	BE	195	LEU
36	BE	209	GLU
36	BE	216	GLU
36	BE	223	PHE
36	BE	227	LEU
36	BE	235	SER
36	BE	240	TYR
36	BE	242	SER
36	BE	249	ALA
36	BE	268	GLU
36	BE	282	ARG
37	BF	18	LEU
37	BF	21	THR
37	BF	58	LEU
37	BF	147	ALA

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	BG	34	LYS
38	BG	70	LYS
38	BG	154	GLY
38	BG	219	LYS
39	BH	86	THR
39	BH	94	PHE
39	BH	100	GLU
39	BH	129	PRO
39	BH	157	VAL
39	BH	179	ILE
39	BH	208	GLU
39	BH	228	GLU
39	BH	229	VAL
39	BH	247	ASP
39	BH	248	LYS
40	BI	48	VAL
40	BI	52	LEU
40	BI	62	ARG
40	BI	64	HIS
40	BI	98	PRO
40	BI	129	ARG
40	BI	162	GLN
40	BI	171	ASP
41	BJ	12	GLN
41	BJ	21	ARG
41	BJ	28	ASP
41	BJ	35	ASP
41	BJ	36	LEU
41	BJ	78	THR
41	BJ	84	ALA
41	BJ	86	HIS
41	BJ	93	PRO
41	BJ	95	HIS
41	BJ	143	SER
41	BJ	175	ASN
41	BJ	177	ASP
41	BJ	185	ARG
41	BJ	189	GLU
41	BJ	196	PHE
41	BJ	207	GLU
42	BK	11	ASP
42	BK	31	THR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
42	BK	77	GLU
42	BK	82	ARG
42	BK	83	GLY
42	BK	92	ARG
42	BK	94	ARG
42	BK	112	LEU
42	BK	121	GLY
42	BK	123	PHE
42	BK	127	PHE
42	BK	141	ARG
42	BK	170	ASP
43	BN	32	LEU
43	BN	44	VAL
43	BN	56	GLN
43	BN	65	LEU
43	BN	73	PRO
43	BN	74	ARG
43	BN	77	ARG
43	BN	96	ALA
43	BN	104	ALA
43	BN	107	GLU
43	BN	118	PHE
43	BN	125	LYS
44	BO	16	SER
44	BO	21	PHE
44	BO	33	LYS
44	BO	52	GLY
44	BO	56	LYS
44	BO	78	GLY
44	BO	81	TYR
44	BO	110	ALA
44	BO	120	TRP
44	BO	149	ASN
44	BO	160	GLU
44	BO	164	LEU
44	BO	166	ALA
44	BO	176	LYS
45	BP	6	VAL
45	BP	19	LEU
45	BP	32	LYS
45	BP	58	LEU
45	BP	62	THR

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
45	BP	69	GLY
45	BP	93	ALA
45	BP	96	LYS
45	BP	116	LYS
45	BP	129	LEU
45	BP	138	LEU
45	BP	163	SER
46	BQ	4	TYR
46	BQ	7	THR
46	BQ	13	LYS
46	BQ	26	PHE
46	BQ	48	LEU
46	BQ	70	THR
46	BQ	78	VAL
46	BQ	105	LYS
46	BQ	109	ALA
46	BQ	111	LYS
46	BQ	112	LEU
46	BQ	126	ARG
46	BQ	133	HIS
46	BQ	154	GLU
47	BR	20	LYS
47	BR	23	ASN
47	BR	24	VAL
47	BR	44	PHE
47	BR	67	ILE
47	BR	87	VAL
47	BR	98	LYS
47	BR	124	LEU
47	BR	127	LEU
47	BR	131	ALA
47	BR	146	SER
47	BR	154	GLY
48	BS	3	ASN
48	BS	55	VAL
48	BS	67	ALA
48	BS	128	LYS
48	BS	140	GLU
49	BT	19	PHE
49	BT	36	VAL
49	BT	48	ILE
49	BT	55	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
49	BT	59	GLY
49	BT	72	VAL
49	BT	77	ASN
49	BT	99	SER
50	BU	28	ASN
50	BU	44	SER
50	BU	54	LEU
50	BU	79	VAL
50	BU	80	ARG
50	BU	82	ALA
50	BU	88	ARG
50	BU	98	ASN
50	BU	109	MET
51	BV	2	LYS
51	BV	42	GLN
51	BV	44	LYS
51	BV	53	VAL
52	BW	55	ASN
52	BW	60	TYR
52	BW	86	VAL
52	BW	89	LYS
52	BW	92	LYS
52	BW	95	ILE
52	BW	104	GLU
52	BW	138	ARG
53	BX	15	ALA
53	BX	25	SER
53	BX	50	ILE
53	BX	71	SER
53	BX	83	ASP
53	BX	92	GLY
53	BX	113	LYS
53	BX	116	LYS
54	BY	14	HIS
54	BY	37	GLY
54	BY	53	PHE
54	BY	62	HIS
54	BY	81	LEU
54	BY	127	ALA
54	BY	131	SER
55	BZ	25	LEU
55	BZ	42	ILE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
55	BZ	50	VAL
55	BZ	53	LYS
56	Ba	17	HIS
56	Ba	50	ARG
57	Bb	15	LYS
57	Bb	24	ARG
57	Bb	41	VAL
57	Bb	43	ARG
57	Bb	45	ARG
57	Bb	58	GLY
57	Bb	62	LYS
57	Bb	63	THR
57	Bb	89	THR
57	Bb	107	VAL
57	Bb	123	LYS
58	Bc	11	THR
58	Bc	27	GLU
58	Bc	37	SER
59	Bd	7	SER
59	Bd	9	GLY
59	Bd	12	HIS
59	Bd	20	ASN
59	Bd	26	SER
59	Bd	38	GLY
59	Bd	50	GLY
59	Bd	66	TYR
60	Be	26	TRP
60	Be	31	THR
60	Be	33	ASN
60	Be	34	THR
60	Be	35	ILE
61	Bf	6	LYS
61	Bf	9	LYS
61	Bf	11	TYR
61	Bf	21	THR
61	Bf	41	ARG
61	Bf	46	LYS
61	Bf	57	VAL
61	Bf	58	PHE
61	Bf	81	ALA
61	Bf	88	CYS
62	Bg	15	GLY

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
62	Bg	66	GLY
62	Bg	67	GLY
62	Bg	82	THR
2	CA	12	GLU
2	CA	26	ALA
2	CA	88	LYS
2	CA	116	LYS
2	CA	121	VAL
2	CA	124	THR
2	CA	128	SER
2	CA	131	GLN
2	CA	148	ASP
2	CA	164	ASN
2	CA	171	GLY
2	CA	177	LEU
2	CA	187	ALA
2	CA	189	VAL
2	CA	207	PRO
2	CA	211	GLU
2	CA	212	GLN
3	CB	38	VAL
3	CB	75	GLY
3	CB	98	PHE
3	CB	124	ALA
3	CB	127	ALA
3	CB	134	LEU
3	CB	146	THR
3	CB	154	LEU
3	CB	167	VAL
3	CB	169	LEU
3	CB	185	LYS
3	CB	202	GLY
3	CB	224	PHE
3	CB	228	ASN
3	CB	233	GLN
3	CB	240	LEU
4	CC	18	TYR
4	CC	42	THR
4	CC	55	THR
4	CC	65	ARG
4	CC	77	PHE
4	CC	95	GLY

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
4	CC	97	SER
4	CC	98	ALA
4	CC	99	VAL
4	CC	115	ILE
4	CC	130	GLY
4	CC	132	LYS
4	CC	142	LEU
4	CC	153	ALA
5	CD	48	PHE
5	CD	58	LEU
5	CD	93	LEU
5	CD	94	THR
5	CD	113	ILE
5	CD	122	ASN
5	CD	135	ASP
5	CD	183	ALA
5	CD	195	ALA
5	CD	197	GLU
6	CE	63	ASP
6	CE	85	VAL
6	CE	88	GLU
6	CE	113	VAL
6	CE	133	HIS
6	CE	137	GLY
6	CE	139	GLN
6	CE	146	PHE
7	CF	96	LYS
7	CF	109	VAL
7	CF	119	VAL
7	CF	121	ASP
7	CF	127	GLN
7	CF	140	VAL
8	CG	54	LEU
8	CG	128	TYR
8	CG	138	ASN
9	CH	3	ASN
9	CH	6	GLN
9	CH	19	ILE
9	CH	25	ASP
9	CH	28	VAL
9	CH	45	GLY
9	CH	64	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
9	CH	73	GLU
9	CH	97	GLY
9	CH	124	ASP
9	CH	128	LYS
10	CI	12	PHE
10	CI	18	ARG
10	CI	22	LEU
10	CI	28	MET
10	CI	35	LYS
10	CI	65	LEU
10	CI	70	ASN
10	CI	81	ARG
10	CI	113	GLY
10	CI	116	LEU
11	CJ	43	ILE
11	CJ	62	ASN
11	CJ	74	HIS
11	CJ	82	ARG
11	CJ	92	TYR
11	CJ	104	GLU
11	CJ	106	LYS
11	CJ	110	THR
11	CJ	125	GLU
11	CJ	129	PHE
11	CJ	136	SER
12	CK	56	HIS
12	CK	63	LYS
12	CK	68	GLY
13	CL	44	ASN
13	CL	46	VAL
13	CL	84	TRP
14	CM	4	VAL
14	CM	51	GLU
14	CM	54	PHE
14	CM	58	ALA
14	CM	102	ARG
14	CM	117	SER
15	CN	13	GLU
15	CN	33	GLN
15	CN	37	VAL
15	CN	97	VAL
15	CN	101	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
15	CN	113	ASP
15	CN	116	VAL
16	CO	22	LYS
16	CO	56	HIS
16	CO	62	VAL
16	CO	68	ARG
16	CO	72	CYS
16	CO	81	VAL
16	CO	94	LEU
16	CO	100	GLY
16	CO	113	HIS
17	CP	37	ALA
17	CP	42	PRO
17	CP	70	LYS
17	CP	81	LYS
17	CP	100	ASP
17	CP	114	LYS
17	CP	128	SER
17	CP	129	GLY
17	CP	139	LYS
18	CQ	42	LEU
18	CQ	66	VAL
18	CQ	75	LEU
19	CR	28	VAL
19	CR	29	ARG
19	CR	41	VAL
19	CR	43	ASN
19	CR	45	LYS
20	CS	27	HIS
20	CS	39	CYS
20	CS	44	ARG
20	CS	47	ALA
20	CS	49	ASP
21	CT	21	THR
21	CT	28	GLY
21	CT	49	GLY
21	CT	59	ARG
21	CT	94	VAL
21	CT	95	ALA
21	CT	108	SER
21	CT	112	SER
21	CT	136	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
21	CT	140	CYS
21	CT	149	ASP
21	CT	188	ILE
21	CT	196	ASN
21	CT	202	LEU
21	CT	203	THR
21	CT	244	ALA
21	CT	247	PRO
21	CT	268	GLN
21	CT	283	LYS
21	CT	298	GLY
21	CT	318	ALA
32	DA	15	GLU
32	DA	22	GLU
32	DA	73	ASP
32	DA	82	VAL
32	DA	93	LEU
32	DA	104	SER
32	DA	109	ALA
32	DA	130	LYS
32	DA	141	ASN
32	DA	160	LYS
32	DA	170	GLY
32	DA	172	VAL
32	DA	193	LEU
32	DA	200	ASN
33	DB	19	HIS
33	DB	118	GLU
33	DB	121	GLY
33	DB	122	ASP
33	DB	128	ARG
33	DB	136	ILE
33	DB	148	VAL
33	DB	165	VAL
33	DB	169	ILE
33	DB	171	GLY
33	DB	173	GLY
33	DB	183	GLY
33	DB	207	VAL
33	DB	212	GLY
33	DB	214	GLY
33	DB	220	GLY

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
33	DB	224	THR
33	DB	231	SER
34	DC	3	HIS
34	DC	7	GLU
34	DC	12	GLY
34	DC	30	LYS
34	DC	45	SER
34	DC	49	TYR
34	DC	57	VAL
34	DC	101	SER
34	DC	104	THR
34	DC	107	ALA
34	DC	134	SER
34	DC	146	ARG
34	DC	148	LEU
34	DC	194	TRP
34	DC	198	HIS
34	DC	203	VAL
34	DC	208	VAL
34	DC	224	HIS
34	DC	257	PRO
34	DC	273	HIS
34	DC	275	ARG
34	DC	278	ILE
34	DC	290	ASP
34	DC	294	GLY
34	DC	305	ILE
34	DC	319	ASN
34	DC	336	VAL
34	DC	343	TYR
34	DC	361	THR
35	DD	8	VAL
35	DD	24	ALA
35	DD	33	ASP
35	DD	66	GLY
35	DD	68	GLY
35	DD	71	VAL
35	DD	83	GLY
35	DD	135	VAL
35	DD	160	GLN
35	DD	181	VAL
35	DD	189	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
35	DD	190	GLY
35	DD	193	LYS
35	DD	204	GLY
35	DD	212	ASP
35	DD	232	SER
35	DD	265	GLU
35	DD	274	TYR
36	DE	10	SER
36	DE	20	PHE
36	DE	29	ASP
36	DE	45	ASN
36	DE	79	TYR
36	DE	95	TRP
36	DE	100	ALA
36	DE	111	GLN
36	DE	120	LYS
36	DE	131	LEU
36	DE	132	THR
36	DE	140	ARG
36	DE	177	GLU
36	DE	195	LEU
36	DE	209	GLU
36	DE	216	GLU
36	DE	227	LEU
36	DE	240	TYR
36	DE	249	ALA
36	DE	268	GLU
36	DE	282	ARG
37	DF	16	ALA
37	DF	18	LEU
37	DF	26	ARG
37	DF	86	ALA
37	DF	98	VAL
37	DF	121	LEU
37	DF	123	PRO
37	DF	127	ASN
37	DF	147	ALA
38	DG	30	ARG
38	DG	34	LYS
38	DG	69	ALA
38	DG	150	LYS
38	DG	154	GLY

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	DG	222	HIS
38	DG	233	GLU
38	DG	234	GLU
39	DH	94	PHE
39	DH	98	ARG
39	DH	100	GLU
39	DH	129	PRO
39	DH	157	VAL
39	DH	196	ALA
39	DH	209	ALA
39	DH	228	GLU
39	DH	229	VAL
39	DH	238	LEU
39	DH	247	ASP
39	DH	248	LYS
40	DI	48	VAL
40	DI	52	LEU
40	DI	59	ASN
40	DI	98	PRO
40	DI	116	ASN
40	DI	129	ARG
40	DI	130	ASP
40	DI	162	GLN
41	DJ	12	GLN
41	DJ	21	ARG
41	DJ	28	ASP
41	DJ	35	ASP
41	DJ	36	LEU
41	DJ	41	ALA
41	DJ	61	SER
41	DJ	78	THR
41	DJ	84	ALA
41	DJ	85	PHE
41	DJ	86	HIS
41	DJ	93	PRO
41	DJ	94	PHE
41	DJ	95	HIS
41	DJ	143	SER
41	DJ	177	ASP
41	DJ	185	ARG
41	DJ	189	GLU
41	DJ	196	PHE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
41	DJ	212	GLU
42	DK	11	ASP
42	DK	15	GLU
42	DK	31	THR
42	DK	47	GLN
42	DK	52	TYR
42	DK	83	GLY
42	DK	92	ARG
42	DK	94	ARG
42	DK	98	ALA
42	DK	112	LEU
42	DK	121	GLY
42	DK	127	PHE
42	DK	141	ARG
42	DK	167	TYR
42	DK	170	ASP
72	DL	14	TYR
72	DL	21	GLU
72	DL	41	LYS
72	DL	55	GLY
72	DL	60	VAL
72	DL	66	ASN
72	DL	69	ALA
72	DL	71	ALA
72	DL	91	ASP
72	DL	117	ARG
72	DL	127	SER
72	DL	140	GLY
73	DM	4	ILE
73	DM	13	ALA
73	DM	35	SER
73	DM	37	GLN
73	DM	38	MET
73	DM	50	VAL
73	DM	53	MET
73	DM	66	PHE
73	DM	190	VAL
73	DM	201	ILE
43	DN	56	GLN
43	DN	59	ASN
43	DN	65	LEU
43	DN	71	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
43	DN	73	PRO
43	DN	89	ALA
43	DN	100	ALA
43	DN	104	ALA
43	DN	118	PHE
43	DN	125	LYS
44	DO	16	SER
44	DO	21	PHE
44	DO	33	LYS
44	DO	52	GLY
44	DO	56	LYS
44	DO	80	THR
44	DO	110	ALA
44	DO	135	VAL
44	DO	142	ILE
44	DO	149	ASN
44	DO	166	ALA
44	DO	176	LYS
45	DP	6	VAL
45	DP	16	VAL
45	DP	32	LYS
45	DP	38	ALA
45	DP	58	LEU
45	DP	62	THR
45	DP	78	ARG
45	DP	83	ALA
45	DP	93	ALA
45	DP	129	LEU
45	DP	163	SER
45	DP	166	GLU
45	DP	167	TYR
46	DQ	26	PHE
46	DQ	34	GLN
46	DQ	70	THR
46	DQ	78	VAL
46	DQ	86	LYS
46	DQ	87	SER
46	DQ	111	LYS
46	DQ	112	LEU
46	DQ	126	ARG
47	DR	20	LYS
47	DR	23	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
47	DR	24	VAL
47	DR	37	ALA
47	DR	44	PHE
47	DR	72	LYS
47	DR	87	VAL
47	DR	94	PHE
47	DR	98	LYS
47	DR	124	LEU
48	DS	55	VAL
48	DS	60	LYS
48	DS	72	GLU
48	DS	106	LEU
48	DS	128	LYS
48	DS	135	LYS
48	DS	140	GLU
49	DT	19	PHE
49	DT	43	LYS
49	DT	46	GLY
49	DT	48	ILE
49	DT	59	GLY
49	DT	69	LYS
49	DT	72	VAL
49	DT	73	GLY
50	DU	11	PHE
50	DU	28	ASN
50	DU	31	ALA
50	DU	56	ASP
50	DU	88	ARG
50	DU	105	PRO
51	DV	3	VAL
51	DV	36	SER
51	DV	42	GLN
51	DV	44	LYS
51	DV	46	PRO
52	DW	49	LYS
52	DW	55	ASN
52	DW	86	VAL
52	DW	88	MET
52	DW	92	LYS
52	DW	98	ALA
52	DW	130	TYR
52	DW	138	ARG

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
53	DX	65	GLY
53	DX	71	SER
53	DX	79	ALA
53	DX	83	ASP
53	DX	92	GLY
53	DX	100	HIS
53	DX	116	LYS
54	DY	14	HIS
54	DY	34	MET
54	DY	37	GLY
54	DY	53	PHE
54	DY	65	GLN
55	DZ	42	ILE
55	DZ	53	LYS
56	Da	20	LEU
56	Da	26	LYS
56	Da	49	VAL
56	Da	61	LYS
56	Da	64	VAL
57	Db	12	LYS
57	Db	15	LYS
57	Db	43	ARG
57	Db	55	ILE
57	Db	58	GLY
57	Db	62	LYS
57	Db	63	THR
57	Db	75	LEU
57	Db	84	THR
57	Db	89	THR
57	Db	123	LYS
58	Dc	18	ALA
58	Dc	37	SER
59	Dd	7	SER
59	Dd	8	PHE
59	Dd	9	GLY
59	Dd	20	ASN
59	Dd	25	ARG
59	Dd	26	SER
59	Dd	28	HIS
59	Dd	29	VAL
59	Dd	35	SER
59	Dd	36	SER

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
59	Dd	37	CYS
59	Dd	50	GLY
59	Dd	66	TYR
60	De	31	THR
60	De	34	THR
60	De	44	TRP
60	De	49	MET
61	Df	6	LYS
61	Df	11	TYR
61	Df	17	CYS
61	Df	21	THR
61	Df	41	ARG
61	Df	46	LYS
61	Df	47	GLN
61	Df	57	VAL
61	Df	58	PHE
61	Df	81	ALA
62	Dg	15	GLY
62	Dg	54	ILE
62	Dg	67	GLY
62	Dg	71	VAL
2	AA	12	GLU
2	AA	38	PHE
2	AA	88	LYS
2	AA	153	SER
2	AA	165	ARG
2	AA	168	HIS
2	AA	203	PHE
3	AB	97	ARG
3	AB	98	PHE
3	AB	158	THR
3	AB	182	PRO
3	AB	195	ASP
3	AB	202	GLY
3	AB	228	ASN
3	AB	244	SER
4	AC	42	THR
4	AC	60	GLY
4	AC	67	ASN
4	AC	82	GLY
4	AC	104	SER
4	AC	134	CYS

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	AD	55	ASP
5	AD	125	THR
5	AD	165	LEU
5	AD	205	SER
5	AD	207	THR
6	AE	87	SER
6	AE	91	LYS
6	AE	107	ARG
6	AE	134	ILE
7	AF	81	HIS
8	AG	55	ARG
8	AG	63	ALA
8	AG	89	TYR
8	AG	108	ASP
8	AG	138	ASN
9	AH	3	ASN
9	AH	34	SER
9	AH	38	THR
9	AH	48	VAL
9	AH	73	GLU
10	AI	17	TYR
10	AI	18	ARG
10	AI	92	SER
10	AI	116	LEU
11	AJ	47	LYS
11	AJ	56	GLY
11	AJ	88	GLY
11	AJ	110	THR
11	AJ	114	ARG
11	AJ	125	GLU
11	AJ	138	PHE
12	AK	28	PHE
13	AL	36	LYS
13	AL	46	VAL
14	AM	120	GLY
15	AN	97	VAL
15	AN	101	LYS
16	AO	41	MET
16	AO	94	LEU
16	AO	107	SER
17	AP	28	ASN
17	AP	81	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
17	AP	128	SER
18	AQ	59	TYR
18	AQ	75	LEU
18	AQ	80	LEU
19	AR	8	THR
19	AR	25	VAL
19	AR	43	ASN
20	AS	22	ARG
21	AT	10	ARG
21	AT	54	PHE
21	AT	90	ARG
21	AT	91	LEU
21	AT	117	LYS
21	AT	129	LYS
21	AT	139	GLN
21	AT	200	ASN
21	AT	217	ASP
21	AT	265	LEU
21	AT	268	GLN
21	AT	289	ALA
21	AT	318	ALA
32	BA	22	GLU
32	BA	49	PHE
32	BA	57	ASN
32	BA	101	LYS
32	BA	102	LYS
32	BA	152	ARG
32	BA	202	GLY
33	BB	20	THR
33	BB	96	LEU
33	BB	128	ARG
33	BB	157	VAL
33	BB	173	GLY
33	BB	187	HIS
33	BB	214	GLY
34	BC	13	HIS
34	BC	49	TYR
34	BC	65	SER
34	BC	72	VAL
34	BC	88	GLY
34	BC	110	LEU
34	BC	121	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
34	BC	129	ALA
34	BC	146	ARG
34	BC	211	GLN
34	BC	261	MET
34	BC	290	ASP
34	BC	303	LYS
34	BC	308	MET
34	BC	319	ASN
34	BC	336	VAL
34	BC	354	VAL
35	BD	18	ASN
35	BD	29	PRO
35	BD	40	THR
35	BD	41	SER
35	BD	115	HIS
35	BD	127	ALA
35	BD	156	LEU
35	BD	232	SER
35	BD	233	LEU
35	BD	242	ALA
35	BD	251	THR
35	BD	262	TRP
36	BE	79	TYR
36	BE	124	GLU
36	BE	132	THR
36	BE	143	LYS
36	BE	163	LEU
36	BE	184	ASP
36	BE	187	THR
36	BE	188	GLU
36	BE	230	ASP
37	BF	8	LYS
37	BF	50	LYS
37	BF	55	LEU
37	BF	66	SER
37	BF	123	PRO
37	BF	127	ASN
37	BF	132	ALA
37	BF	155	LEU
37	BF	158	TYR
38	BG	69	ALA
38	BG	72	ALA

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	BG	139	PRO
38	BG	150	LYS
38	BG	164	SER
38	BG	220	PHE
38	BG	222	HIS
39	BH	82	LEU
39	BH	95	ASN
39	BH	105	LYS
39	BH	123	GLN
39	BH	190	VAL
39	BH	196	ALA
39	BH	237	ILE
40	BI	42	ASP
40	BI	56	ALA
40	BI	59	ASN
40	BI	83	THR
40	BI	106	LYS
40	BI	116	ASN
40	BI	118	LEU
40	BI	137	SER
40	BI	155	SER
40	BI	179	ILE
41	BJ	15	LYS
41	BJ	47	PRO
41	BJ	56	GLU
41	BJ	85	PHE
41	BJ	94	PHE
41	BJ	181	TYR
41	BJ	205	SER
41	BJ	214	PRO
42	BK	35	LYS
42	BK	119	SER
42	BK	156	LYS
42	BK	167	TYR
43	BN	71	ALA
43	BN	85	TRP
43	BN	89	ALA
43	BN	94	TRP
44	BO	34	ASN
44	BO	41	ARG
44	BO	59	PHE
44	BO	122	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
44	BO	135	VAL
44	BO	138	GLN
44	BO	154	PRO
44	BO	158	HIS
44	BO	159	ARG
44	BO	172	ARG
45	BP	39	GLU
45	BP	42	ASN
45	BP	46	GLU
45	BP	82	LYS
45	BP	149	TYR
45	BP	189	ASP
45	BP	193	GLN
46	BQ	29	THR
46	BQ	66	SER
46	BQ	85	ALA
46	BQ	86	LYS
46	BQ	121	GLN
47	BR	25	TYR
47	BR	54	LEU
47	BR	72	LYS
47	BR	83	VAL
47	BR	109	GLY
47	BR	121	CYS
48	BS	71	ARG
49	BT	10	ARG
49	BT	14	MET
49	BT	73	GLY
49	BT	74	VAL
49	BT	78	LYS
50	BU	16	GLY
51	BV	36	SER
51	BV	43	ARG
52	BW	88	MET
52	BW	98	ALA
52	BW	111	ASN
53	BX	65	GLY
53	BX	76	LEU
53	BX	102	SER
54	BY	29	PRO
54	BY	83	PRO
54	BY	95	SER

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
54	BY	126	LYS
55	BZ	9	SER
55	BZ	38	LYS
56	Ba	5	LYS
56	Ba	20	LEU
56	Ba	26	LYS
56	Ba	31	ARG
56	Ba	63	GLY
56	Ba	64	VAL
56	Ba	68	GLU
57	Bb	23	ASP
57	Bb	34	LYS
57	Bb	70	GLY
57	Bb	78	ASN
58	Bc	5	LYS
58	Bc	65	ALA
59	Bd	19	CYS
59	Bd	25	ARG
59	Bd	36	SER
59	Bd	37	CYS
59	Bd	52	LYS
60	Be	49	MET
61	Bf	17	CYS
61	Bf	19	LYS
61	Bf	56	PRO
62	Bg	65	ALA
2	CA	21	ASN
2	CA	38	PHE
2	CA	83	GLN
2	CA	85	ALA
2	CA	87	LEU
2	CA	112	THR
2	CA	165	ARG
2	CA	176	LEU
2	CA	192	THR
2	CA	198	MET
2	CA	203	PHE
3	CB	40	LYS
3	CB	46	LYS
3	CB	97	ARG
3	CB	150	GLN
3	CB	195	ASP

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	CB	213	ALA
3	CB	214	ALA
4	CC	23	GLU
4	CC	60	GLY
4	CC	61	GLU
4	CC	67	ASN
4	CC	82	GLY
4	CC	143	ARG
4	CC	158	ILE
5	CD	44	ASN
5	CD	45	LYS
5	CD	121	ILE
5	CD	128	ASN
5	CD	138	THR
5	CD	144	GLU
5	CD	153	GLY
5	CD	186	ASN
5	CD	207	THR
5	CD	213	LYS
5	CD	215	ASP
6	CE	38	ASN
6	CE	87	SER
6	CE	107	ARG
6	CE	108	ARG
6	CE	123	HIS
6	CE	134	ILE
7	CF	81	HIS
7	CF	137	PHE
8	CG	52	VAL
8	CG	63	ALA
8	CG	70	LYS
8	CG	89	TYR
8	CG	110	ASP
8	CG	139	TRP
9	CH	34	SER
9	CH	48	VAL
10	CI	20	VAL
10	CI	32	ASP
10	CI	74	ALA
10	CI	92	SER
11	CJ	15	SER
11	CJ	28	LEU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
11	CJ	47	LYS
11	CJ	98	ASP
11	CJ	107	LYS
12	CK	40	THR
13	CL	36	LYS
13	CL	101	LEU
13	CL	136	GLN
13	CL	139	LYS
14	CM	7	ARG
14	CM	18	TYR
14	CM	120	GLY
14	CM	122	ARG
15	CN	34	LEU
15	CN	103	ILE
16	CO	41	MET
16	CO	46	TYR
16	CO	104	LEU
17	CP	28	ASN
17	CP	41	SER
17	CP	95	PHE
18	CQ	59	TYR
18	CQ	86	GLU
19	CR	8	THR
19	CR	38	ARG
20	CS	16	LYS
20	CS	22	ARG
21	CT	10	ARG
21	CT	54	PHE
21	CT	90	ARG
21	CT	91	LEU
21	CT	129	LYS
21	CT	139	GLN
21	CT	176	LYS
21	CT	186	PHE
21	CT	200	ASN
21	CT	217	ASP
21	CT	265	LEU
21	CT	289	ALA
32	DA	24	LYS
32	DA	94	ASN
32	DA	96	ASN
32	DA	194	LEU

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
32	DA	203	SER
33	DB	20	THR
33	DB	54	ARG
33	DB	103	PRO
33	DB	134	VAL
33	DB	151	PRO
33	DB	187	HIS
33	DB	215	ASN
33	DB	227	ARG
34	DC	2	SER
34	DC	13	HIS
34	DC	37	ARG
34	DC	68	HIS
34	DC	69	LYS
34	DC	92	TYR
34	DC	129	ALA
34	DC	130	PHE
34	DC	138	ALA
34	DC	216	ASP
34	DC	235	THR
34	DC	241	LYS
34	DC	255	TRP
34	DC	295	ALA
34	DC	354	VAL
34	DC	364	LYS
35	DD	16	THR
35	DD	26	PHE
35	DD	29	PRO
35	DD	32	PRO
35	DD	127	ALA
35	DD	233	LEU
35	DD	238	LEU
35	DD	242	ALA
35	DD	250	TRP
35	DD	251	THR
35	DD	269	SER
35	DD	272	VAL
36	DE	40	HIS
36	DE	41	LYS
36	DE	72	ASP
36	DE	143	LYS
36	DE	158	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DE	188	GLU
36	DE	213	ASP
36	DE	223	PHE
36	DE	230	ASP
36	DE	263	GLU
37	DF	8	LYS
37	DF	50	LYS
37	DF	107	ALA
37	DF	132	ALA
38	DG	74	SER
38	DG	139	PRO
38	DG	145	ARG
38	DG	190	THR
38	DG	194	HIS
38	DG	209	ASN
38	DG	219	LYS
38	DG	243	MET
39	DH	95	ASN
39	DH	105	LYS
39	DH	106	LYS
39	DH	208	GLU
39	DH	221	ASN
40	DI	42	ASP
40	DI	64	HIS
40	DI	83	THR
40	DI	106	LYS
40	DI	118	LEU
40	DI	155	SER
40	DI	179	ILE
41	DJ	15	LYS
41	DJ	20	SER
41	DJ	47	PRO
41	DJ	67	ALA
41	DJ	171	TRP
41	DJ	198	LYS
41	DJ	205	SER
42	DK	144	CYS
42	DK	152	HIS
42	DK	156	LYS
72	DL	15	LEU
72	DL	54	LYS
72	DL	70	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
72	DL	86	LYS
72	DL	95	ASP
72	DL	131	GLU
73	DM	5	ARG
73	DM	6	GLU
73	DM	61	ARG
73	DM	68	SER
73	DM	103	ASN
43	DN	40	ASP
43	DN	77	ARG
43	DN	85	TRP
43	DN	88	ALA
43	DN	96	ALA
44	DO	34	ASN
44	DO	38	ARG
44	DO	59	PHE
44	DO	78	GLY
44	DO	81	TYR
44	DO	120	TRP
44	DO	144	ARG
44	DO	154	PRO
44	DO	158	HIS
44	DO	164	LEU
44	DO	172	ARG
44	DO	185	ALA
45	DP	14	HIS
45	DP	82	LYS
45	DP	94	ARG
45	DP	96	LYS
45	DP	98	ALA
45	DP	149	TYR
45	DP	195	ALA
46	DQ	8	SER
46	DQ	13	LYS
46	DQ	29	THR
46	DQ	66	SER
46	DQ	105	LYS
46	DQ	109	ALA
46	DQ	145	HIS
46	DQ	154	GLU
47	DR	77	ALA
47	DR	121	CYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
47	DR	127	LEU
47	DR	154	GLY
48	DS	20	ARG
48	DS	71	ARG
48	DS	104	ARG
48	DS	121	HIS
49	DT	15	PHE
49	DT	29	THR
49	DT	55	LYS
49	DT	74	VAL
49	DT	77	ASN
49	DT	108	ARG
50	DU	16	GLY
50	DU	42	SER
50	DU	70	ARG
50	DU	86	ARG
50	DU	91	VAL
50	DU	103	ALA
51	DV	2	LYS
51	DV	7	SER
51	DV	53	VAL
52	DW	111	ASN
53	DX	25	SER
53	DX	50	ILE
53	DX	113	LYS
54	DY	63	LYS
54	DY	81	LEU
54	DY	83	PRO
54	DY	95	SER
55	DZ	9	SER
55	DZ	38	LYS
55	DZ	84	LEU
56	Da	9	THR
56	Da	17	HIS
56	Da	31	ARG
56	Da	50	ARG
56	Da	68	GLU
57	Db	45	ARG
57	Db	70	GLY
57	Db	78	ASN
57	Db	83	GLU
57	Db	103	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
57	Db	104	ASN
57	Db	115	LEU
57	Db	122	PRO
58	Dc	5	LYS
59	Dd	12	HIS
59	Dd	19	CYS
59	Dd	52	LYS
60	De	32	ASN
61	Df	19	LYS
61	Df	56	PRO
61	Df	62	ALA
62	Dg	50	GLY
62	Dg	65	ALA
2	AA	53	THR
2	AA	68	PRO
2	AA	82	GLY
2	AA	83	GLN
2	AA	107	PHE
2	AA	145	ALA
2	AA	158	VAL
2	AA	199	PRO
3	AB	45	VAL
3	AB	46	LYS
3	AB	71	THR
3	AB	169	LEU
3	AB	206	THR
3	AB	233	GLN
4	AC	68	GLU
4	AC	97	SER
4	AC	115	ILE
4	AC	125	TYR
4	AC	158	ILE
5	AD	58	LEU
5	AD	138	THR
5	AD	148	ARG
5	AD	157	ARG
5	AD	186	ASN
5	AD	196	GLU
5	AD	212	LYS
5	AD	219	ARG
6	AE	52	ILE
6	AE	60	LEU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
6	AE	180	LYS
7	AF	119	VAL
7	AF	140	VAL
8	AG	70	LYS
8	AG	81	ALA
8	AG	110	ASP
9	AH	32	ASP
9	AH	80	HIS
9	AH	110	LEU
9	AH	117	ASP
10	AI	12	PHE
10	AI	36	LEU
10	AI	52	LYS
10	AI	55	GLY
10	AI	63	ALA
10	AI	67	ALA
10	AI	70	ASN
10	AI	90	ILE
11	AJ	28	LEU
11	AJ	46	PHE
11	AJ	51	PRO
11	AJ	90	VAL
11	AJ	99	GLU
11	AJ	106	LYS
11	AJ	134	ALA
12	AK	11	ARG
12	AK	40	THR
12	AK	67	ARG
13	AL	29	VAL
13	AL	44	ASN
13	AL	58	ALA
13	AL	76	PRO
13	AL	82	PRO
13	AL	83	ALA
13	AL	136	GLN
14	AM	5	SER
14	AM	52	GLY
14	AM	70	GLN
14	AM	134	ARG
15	AN	34	LEU
15	AN	41	ILE
15	AN	49	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
15	AN	70	THR
15	AN	103	ILE
16	AO	46	TYR
16	AO	81	VAL
16	AO	83	ILE
17	AP	95	PHE
17	AP	137	LYS
17	AP	141	GLU
18	AQ	84	GLU
19	AR	32	PHE
19	AR	38	ARG
21	AT	57	PRO
21	AT	63	GLY
21	AT	94	VAL
21	AT	105	GLY
21	AT	243	LEU
21	AT	291	SER
32	BA	27	ASN
32	BA	107	TYR
32	BA	132	GLY
32	BA	155	ILE
32	BA	165	LEU
32	BA	189	PHE
32	BA	213	ALA
33	BB	29	LEU
33	BB	52	SER
33	BB	53	GLY
33	BB	131	GLY
33	BB	224	THR
34	BC	57	VAL
34	BC	90	VAL
34	BC	164	THR
34	BC	183	LEU
34	BC	193	ASP
34	BC	199	PHE
34	BC	216	ASP
34	BC	255	TRP
34	BC	256	HIS
34	BC	273	HIS
34	BC	295	ALA
34	BC	364	LYS
35	BD	39	PHE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BD	45	ASN
35	BD	78	GLY
35	BD	272	VAL
36	BE	41	LYS
36	BE	72	ASP
36	BE	123	GLU
36	BE	136	GLU
36	BE	177	GLU
36	BE	257	GLU
36	BE	263	GLU
36	BE	294	ALA
37	BF	61	ASN
37	BF	73	GLY
37	BF	107	ALA
37	BF	128	LYS
38	BG	28	ALA
38	BG	33	ARG
38	BG	55	TYR
38	BG	135	ALA
38	BG	161	VAL
38	BG	216	VAL
39	BH	88	ALA
39	BH	106	LYS
39	BH	155	ASN
39	BH	169	LEU
39	BH	221	ASN
39	BH	235	GLY
40	BI	17	THR
40	BI	38	LEU
40	BI	105	GLU
40	BI	111	PHE
40	BI	185	GLY
41	BJ	20	SER
41	BJ	60	LEU
41	BJ	66	GLU
41	BJ	67	ALA
41	BJ	91	VAL
41	BJ	154	ARG
41	BJ	163	GLN
42	BK	98	ALA
42	BK	106	ILE
42	BK	144	CYS

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
43	BN	40	ASP
44	BO	47	LYS
44	BO	74	PRO
44	BO	137	PRO
44	BO	142	ILE
44	BO	175	ASN
45	BP	14	HIS
45	BP	77	SER
46	BQ	8	SER
46	BQ	31	GLU
46	BQ	34	GLN
46	BQ	87	SER
46	BQ	132	ALA
47	BR	21	SER
47	BR	37	ALA
47	BR	41	ASP
47	BR	46	LYS
47	BR	86	THR
47	BR	96	PHE
48	BS	12	ALA
48	BS	20	ARG
48	BS	72	GLU
48	BS	97	ARG
48	BS	121	HIS
49	BT	29	THR
49	BT	42	ILE
49	BT	57	TYR
50	BU	42	SER
50	BU	70	ARG
50	BU	91	VAL
50	BU	103	ALA
51	BV	9	SER
51	BV	35	LYS
51	BV	46	PRO
53	BX	21	THR
53	BX	42	GLN
53	BX	96	PRO
53	BX	119	ILE
54	BY	46	ASP
54	BY	51	GLY
54	BY	63	LYS
54	BY	65	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
54	BY	66	ALA
54	BY	129	PHE
54	BY	136	GLU
55	BZ	69	TYR
55	BZ	77	LEU
55	BZ	84	LEU
56	Ba	49	VAL
56	Ba	72	ARG
56	Ba	77	ARG
57	Bb	17	PHE
57	Bb	35	GLN
57	Bb	49	ASN
57	Bb	83	GLU
57	Bb	92	TYR
57	Bb	103	LYS
57	Bb	108	ILE
57	Bb	115	LEU
58	Bc	28	LEU
58	Bc	35	LYS
59	Bd	22	CYS
59	Bd	33	THR
60	Be	32	ASN
61	Bf	12	CYS
61	Bf	59	HIS
62	Bg	14	TYR
62	Bg	68	ALA
2	CA	18	LEU
2	CA	68	PRO
2	CA	82	GLY
2	CA	99	ALA
2	CA	153	SER
2	CA	158	VAL
2	CA	168	HIS
3	CB	69	ILE
3	CB	153	SER
3	CB	182	PRO
4	CC	93	ASP
4	CC	104	SER
4	CC	134	CYS
4	CC	146	ARG
4	CC	159	HIS
5	CD	125	THR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
5	CD	134	VAL
5	CD	148	ARG
5	CD	170	GLN
5	CD	181	GLU
5	CD	196	GLU
5	CD	205	SER
5	CD	211	ILE
5	CD	212	LYS
5	CD	219	ARG
6	CE	27	GLU
6	CE	46	SER
6	CE	91	LYS
6	CE	101	VAL
6	CE	180	LYS
7	CF	101	GLU
7	CF	135	VAL
8	CG	55	ARG
8	CG	75	LEU
8	CG	81	ALA
9	CH	32	ASP
9	CH	38	THR
9	CH	110	LEU
10	CI	36	LEU
10	CI	52	LYS
10	CI	55	GLY
10	CI	67	ALA
10	CI	90	ILE
10	CI	126	VAL
11	CJ	23	LYS
11	CJ	44	LEU
11	CJ	46	PHE
11	CJ	51	PRO
11	CJ	56	GLY
11	CJ	88	GLY
11	CJ	114	ARG
11	CJ	134	ALA
12	CK	11	ARG
12	CK	27	ASP
12	CK	28	PHE
12	CK	47	ARG
13	CL	56	LYS
13	CL	58	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
13	CL	61	LEU
13	CL	73	MET
13	CL	83	ALA
13	CL	135	GLY
13	CL	140	THR
14	CM	5	SER
14	CM	64	HIS
14	CM	70	GLN
15	CN	70	THR
16	CO	50	PHE
16	CO	60	LYS
16	CO	83	ILE
16	CO	107	SER
17	CP	122	PHE
17	CP	137	LYS
17	CP	141	GLU
18	CQ	80	LEU
18	CQ	84	GLU
19	CR	25	VAL
19	CR	32	PHE
19	CR	33	LEU
19	CR	37	SER
21	CT	57	PRO
21	CT	63	GLY
21	CT	105	GLY
21	CT	117	LYS
21	CT	192	PHE
21	CT	243	LEU
32	DA	6	SER
32	DA	25	LYS
32	DA	44	GLN
32	DA	47	LYS
32	DA	58	CYS
32	DA	80	CYS
32	DA	86	SER
32	DA	154	THR
33	DB	46	LYS
33	DB	52	SER
33	DB	53	GLY
33	DB	130	SER
33	DB	131	GLY
34	DC	65	SER

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	DC	72	VAL
34	DC	90	VAL
34	DC	96	PRO
34	DC	121	ASN
34	DC	142	ALA
34	DC	183	LEU
34	DC	192	VAL
34	DC	222	LYS
34	DC	260	VAL
34	DC	308	MET
34	DC	348	ARG
35	DD	18	ASN
35	DD	55	LYS
35	DD	87	GLN
35	DD	94	CYS
35	DD	98	ARG
35	DD	106	TRP
35	DD	115	HIS
35	DD	156	LEU
35	DD	178	LEU
35	DD	262	TRP
35	DD	268	ALA
36	DE	30	TYR
36	DE	44	TYR
36	DE	184	ASP
36	DE	187	THR
37	DF	55	LEU
37	DF	66	SER
37	DF	76	LEU
37	DF	140	VAL
37	DF	155	LEU
37	DF	158	TYR
37	DF	160	SER
38	DG	33	ARG
38	DG	135	ALA
38	DG	153	PHE
38	DG	164	SER
38	DG	216	VAL
39	DH	82	LEU
39	DH	84	ARG
39	DH	86	THR
39	DH	97	TYR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
39	DH	169	LEU
39	DH	186	LEU
39	DH	190	VAL
39	DH	235	GLY
39	DH	237	ILE
40	DI	17	THR
40	DI	56	ALA
40	DI	62	ARG
40	DI	73	SER
40	DI	105	GLU
40	DI	111	PHE
40	DI	137	SER
40	DI	175	PHE
41	DJ	18	PRO
41	DJ	19	LYS
41	DJ	163	GLN
41	DJ	181	TYR
41	DJ	207	GLU
42	DK	119	SER
42	DK	123	PHE
42	DK	157	GLU
72	DL	89	PRO
72	DL	92	ARG
72	DL	120	SER
72	DL	128	VAL
73	DM	64	ARG
73	DM	197	PHE
43	DN	112	LEU
44	DO	41	ARG
44	DO	43	THR
44	DO	122	ASN
44	DO	173	GLY
45	DP	39	GLU
46	DQ	63	PHE
46	DQ	132	ALA
47	DR	96	PHE
47	DR	128	ALA
47	DR	132	PRO
47	DR	157	PRO
48	DS	38	ARG
49	DT	9	SER
49	DT	36	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
49	DT	71	SER
49	DT	78	LYS
50	DU	14	SER
50	DU	79	VAL
50	DU	85	TRP
51	DV	43	ARG
51	DV	50	ALA
52	DW	89	LYS
52	DW	128	ALA
53	DX	102	SER
54	DY	19	LYS
54	DY	29	PRO
54	DY	51	GLY
54	DY	66	ALA
54	DY	96	LYS
54	DY	126	LYS
54	DY	131	SER
55	DZ	52	ARG
55	DZ	69	TYR
56	Da	5	LYS
56	Da	43	HIS
56	Da	63	GLY
57	Db	17	PHE
57	Db	23	ASP
57	Db	34	LYS
57	Db	86	THR
58	Dc	27	GLU
58	Dc	65	ALA
59	Dd	22	CYS
59	Dd	33	THR
61	Df	3	ASN
61	Df	12	CYS
62	Dg	14	TYR
62	Dg	26	VAL
62	Dg	46	THR
2	AA	25	GLY
2	AA	81	PHE
2	AA	119	ARG
2	AA	195	TRP
3	AB	61	LEU
3	AB	95	ARG
3	AB	138	PRO

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	AB	146	THR
3	AB	153	SER
4	AC	93	ASP
4	AC	164	VAL
5	AD	45	LYS
5	AD	65	ARG
5	AD	213	LYS
5	AD	214	LYS
5	AD	221	ALA
6	AE	34	PHE
6	AE	101	VAL
6	AE	123	HIS
7	AF	101	GLU
7	AF	115	PHE
7	AF	135	VAL
7	AF	137	PHE
8	AG	77	SER
8	AG	142	GLU
8	AG	150	VAL
10	AI	20	VAL
10	AI	74	ALA
11	AJ	15	SER
12	AK	21	TYR
12	AK	43	SER
12	AK	66	VAL
13	AL	16	ARG
13	AL	56	LYS
13	AL	61	LEU
13	AL	120	ARG
13	AL	135	GLY
16	AO	104	LEU
17	AP	91	GLY
21	AT	158	PRO
21	AT	286	GLU
32	BA	5	THR
32	BA	45	ARG
32	BA	92	LYS
32	BA	108	ASN
32	BA	154	THR
33	BB	17	THR
33	BB	27	ALA
33	BB	46	LYS

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
33	BB	99	GLY
33	BB	177	LYS
34	BC	111	SER
34	BC	130	PHE
34	BC	218	ILE
34	BC	347	SER
35	BD	250	TRP
35	BD	269	SER
36	BE	64	ILE
36	BE	226	TYR
36	BE	286	VAL
37	BF	30	LEU
37	BF	36	PRO
37	BF	67	GLY
37	BF	98	VAL
37	BF	140	VAL
38	BG	30	ARG
38	BG	83	LEU
38	BG	123	THR
38	BG	134	VAL
38	BG	145	ARG
38	BG	153	PHE
38	BG	211	SER
39	BH	97	TYR
39	BH	134	TYR
39	BH	241	LYS
40	BI	130	ASP
40	BI	175	PHE
41	BJ	8	CYS
41	BJ	41	ALA
41	BJ	171	TRP
41	BJ	212	GLU
42	BK	12	LEU
42	BK	44	THR
42	BK	130	VAL
43	BN	36	VAL
44	BO	31	ARG
45	BP	24	ALA
45	BP	94	ARG
45	BP	98	ALA
45	BP	166	GLU
45	BP	177	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
45	BP	195	ALA
47	BR	77	ALA
47	BR	101	VAL
48	BS	8	LYS
48	BS	25	ASP
49	BT	27	LEU
49	BT	108	ARG
50	BU	11	PHE
50	BU	13	ILE
50	BU	56	ASP
50	BU	86	ARG
52	BW	96	LYS
52	BW	115	ARG
52	BW	128	ALA
54	BY	15	VAL
54	BY	19	LYS
54	BY	25	HIS
54	BY	28	HIS
54	BY	49	HIS
54	BY	70	LYS
54	BY	128	ARG
55	BZ	52	ARG
56	Ba	23	VAL
56	Ba	57	GLN
56	Ba	82	GLU
57	Bb	16	LYS
57	Bb	32	TRP
57	Bb	75	LEU
57	Bb	86	THR
59	Bd	34	CYS
60	Be	37	TYR
60	Be	39	ALA
61	Bf	3	ASN
61	Bf	39	GLY
61	Bf	45	ARG
61	Bf	55	LYS
61	Bf	62	ALA
62	Bg	26	VAL
62	Bg	74	ALA
2	CA	93	THR
2	CA	145	ALA
2	CA	152	PRO

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
2	CA	160	ILE
2	CA	195	TRP
2	CA	199	PRO
3	CB	45	VAL
3	CB	71	THR
3	CB	138	PRO
4	CC	164	VAL
5	CD	60	ASP
5	CD	157	ARG
5	CD	165	LEU
5	CD	221	ALA
6	CE	60	LEU
6	CE	74	ASN
6	CE	75	ALA
6	CE	125	ALA
6	CE	170	GLY
6	CE	183	ALA
8	CG	77	SER
8	CG	150	VAL
10	CI	16	SER
10	CI	63	ALA
10	CI	117	GLY
11	CJ	55	VAL
12	CK	21	TYR
12	CK	59	LYS
12	CK	66	VAL
13	CL	82	PRO
13	CL	120	ARG
14	CM	15	ILE
14	CM	114	VAL
14	CM	121	GLY
14	CM	124	ILE
15	CN	12	GLN
17	CP	102	VAL
17	CP	118	PRO
18	CQ	96	SER
21	CT	158	PRO
21	CT	286	GLU
32	DA	74	VAL
32	DA	88	ASP
33	DB	10	LYS
33	DB	177	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
34	DC	88	GLY
34	DC	218	ILE
34	DC	256	HIS
35	DD	12	THR
35	DD	40	THR
35	DD	41	SER
36	DE	103	LEU
36	DE	142	PHE
36	DE	156	GLY
36	DE	192	PRO
36	DE	202	GLY
36	DE	226	TYR
36	DE	248	ARG
36	DE	294	ALA
37	DF	36	PRO
37	DF	73	GLY
37	DF	81	ALA
38	DG	72	ALA
38	DG	83	LEU
38	DG	111	ILE
38	DG	134	VAL
38	DG	161	VAL
39	DH	165	PHE
39	DH	176	PRO
39	DH	243	GLN
40	DI	38	LEU
40	DI	51	GLN
40	DI	185	GLY
41	DJ	66	GLU
41	DJ	147	VAL
41	DJ	194	GLY
41	DJ	214	PRO
42	DK	130	VAL
72	DL	121	PHE
72	DL	136	ALA
73	DM	69	ASP
73	DM	96	ILE
44	DO	74	PRO
45	DP	180	SER
45	DP	191	ALA
46	DQ	4	TYR
46	DQ	85	ALA

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	DR	21	SER
47	DR	41	ASP
47	DR	46	LYS
48	DS	17	VAL
48	DS	27	ASN
49	DT	10	ARG
49	DT	24	ALA
49	DT	53	PRO
49	DT	57	TYR
49	DT	102	ARG
50	DU	13	ILE
52	DW	95	ILE
52	DW	110	VAL
53	DX	42	GLN
54	DY	25	HIS
54	DY	70	LYS
55	DZ	77	LEU
56	Da	42	LEU
56	Da	72	ARG
57	Db	9	ILE
57	Db	21	HIS
60	De	26	TRP
60	De	39	ALA
61	Df	45	ARG
61	Df	48	SER
61	Df	59	HIS
62	Dg	74	ALA
3	AB	123	GLY
4	AC	29	LEU
4	AC	146	ARG
5	AD	170	GLN
9	AH	87	GLY
10	AI	76	VAL
11	AJ	33	GLY
11	AJ	84	ALA
12	AK	20	TYR
14	AM	61	VAL
14	AM	114	VAL
15	AN	118	VAL
17	AP	69	ARG
17	AP	88	PRO
17	AP	118	PRO

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
19	AR	37	SER
21	AT	136	ILE
21	AT	138	GLY
33	BB	10	LYS
33	BB	62	VAL
34	BC	268	GLY
35	BD	32	PRO
35	BD	87	GLN
35	BD	94	CYS
35	BD	101	ALA
36	BE	141	PRO
36	BE	156	GLY
36	BE	183	TRP
36	BE	269	SER
37	BF	65	ILE
37	BF	125	GLN
38	BG	38	LYS
38	BG	243	MET
39	BH	136	LEU
40	BI	51	GLN
40	BI	158	ALA
42	BK	36	VAL
42	BK	75	LYS
42	BK	157	GLU
44	BO	38	ARG
44	BO	144	ARG
44	BO	153	ASP
44	BO	173	GLY
45	BP	164	SER
46	BQ	54	HIS
48	BS	33	ALA
49	BT	12	ARG
49	BT	24	ALA
49	BT	51	GLY
49	BT	53	PRO
50	BU	55	GLY
51	BV	50	ALA
55	BZ	57	GLU
55	BZ	92	ILE
57	Bb	60	ASN
57	Bb	71	HIS
57	Bb	122	PRO

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
58	Bc	4	VAL
58	Bc	16	GLN
58	Bc	34	GLN
59	Bd	58	THR
60	Be	10	LYS
61	Bf	48	SER
62	Bg	50	GLY
2	CA	104	PRO
3	CB	56	ILE
3	CB	65	GLU
4	CC	15	GLY
4	CC	91	VAL
5	CD	200	ASN
8	CG	108	ASP
8	CG	143	SER
9	CH	58	TYR
9	CH	87	GLY
9	CH	115	ILE
11	CJ	33	GLY
12	CK	67	ARG
13	CL	29	VAL
13	CL	76	PRO
15	CN	118	VAL
16	CO	7	LEU
17	CP	38	PHE
20	CS	25	SER
21	CT	138	GLY
21	CT	291	SER
32	DA	135	PRO
32	DA	137	PRO
32	DA	209	SER
33	DB	6	ARG
33	DB	62	VAL
33	DB	91	GLY
33	DB	113	VAL
34	DC	133	TYR
34	DC	161	LEU
34	DC	204	ALA
35	DD	169	LEU
36	DE	64	ILE
36	DE	123	GLU
36	DE	136	GLU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
36	DE	141	PRO
36	DE	257	GLU
36	DE	265	TYR
36	DE	269	SER
36	DE	286	VAL
36	DE	291	ALA
37	DF	65	ILE
37	DF	67	GLY
37	DF	128	LYS
38	DG	37	ASN
40	DI	55	VAL
41	DJ	197	VAL
41	DJ	216	TYR
42	DK	35	LYS
42	DK	64	LYS
72	DL	85	LEU
72	DL	98	VAL
73	DM	47	GLY
73	DM	97	LYS
43	DN	61	GLY
45	DP	23	VAL
45	DP	84	LEU
45	DP	95	GLY
45	DP	165	ALA
46	DQ	121	GLN
47	DR	40	THR
47	DR	131	ALA
48	DS	13	SER
48	DS	25	ASP
48	DS	147	ALA
50	DU	17	LEU
50	DU	44	SER
51	DV	9	SER
52	DW	115	ARG
53	DX	78	PHE
54	DY	15	VAL
54	DY	46	ASP
54	DY	49	HIS
54	DY	93	SER
55	DZ	92	ILE
56	Da	82	GLU
57	Db	107	VAL

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
58	Dc	4	VAL
59	Dd	32	LYS
59	Dd	60	GLY
60	De	37	TYR
61	Df	39	GLY
62	Dg	13	LYS
62	Dg	68	ALA
3	AB	160	GLY
6	AE	35	GLY
6	AE	144	PRO
9	AH	115	ILE
10	AI	105	VAL
11	AJ	39	VAL
14	AM	124	ILE
15	AN	58	LEU
17	AP	44	GLY
33	BB	91	GLY
34	BC	8	ALA
34	BC	96	PRO
38	BG	203	TRP
40	BI	55	VAL
41	BJ	4	ARG
41	BJ	172	GLY
41	BJ	194	GLY
48	BS	77	GLY
52	BW	110	VAL
53	BX	106	ILE
57	Bb	9	ILE
3	CB	160	GLY
3	CB	216	VAL
10	CI	76	VAL
11	CJ	39	VAL
14	CM	52	GLY
14	CM	61	VAL
15	CN	41	ILE
15	CN	58	LEU
17	CP	96	VAL
34	DC	8	ALA
34	DC	33	PRO
35	DD	22	LEU
35	DD	52	VAL
35	DD	101	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
37	DF	79	VAL
41	DJ	27	PRO
41	DJ	91	VAL
42	DK	106	ILE
72	DL	23	GLY
73	DM	82	GLY
73	DM	101	VAL
43	DN	36	VAL
43	DN	38	ILE
44	DO	137	PRO
44	DO	153	ASP
46	DQ	24	VAL
47	DR	67	ILE
55	DZ	81	VAL
56	Da	8	VAL
57	Db	67	SER
61	Df	55	LYS
2	AA	104	PRO
5	AD	114	ILE
9	AH	13	VAL
9	AH	74	VAL
10	AI	126	VAL
16	AO	25	VAL
17	AP	96	VAL
17	AP	102	VAL
18	AQ	40	VAL
32	BA	69	GLY
33	BB	113	VAL
33	BB	135	ILE
33	BB	196	TRP
35	BD	52	VAL
35	BD	71	VAL
36	BE	26	GLY
36	BE	254	LYS
39	BH	176	PRO
39	BH	182	GLY
44	BO	89	VAL
56	Ba	8	VAL
2	CA	25	GLY
5	CD	123	VAL
6	CE	52	ILE
6	CE	144	PRO

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
9	CH	13	VAL
9	CH	74	VAL
15	CN	73	GLY
17	CP	88	PRO
17	CP	91	GLY
35	DD	216	VAL
36	DE	254	LYS
41	DJ	172	GLY
42	DK	44	THR
72	DL	64	ILE
72	DL	102	GLY
72	DL	132	ILE
73	DM	80	VAL
43	DN	120	VAL
44	DO	89	VAL
47	DR	83	VAL
47	DR	109	GLY
53	DX	119	ILE
56	Da	23	VAL
57	Db	108	ILE
2	AA	144	ILE
3	AB	56	ILE
3	AB	171	PRO
3	AB	216	VAL
5	AD	121	ILE
5	AD	152	GLY
21	AT	20	VAL
32	BA	65	ILE
33	BB	85	GLY
34	BC	278	ILE
36	BE	202	GLY
38	BG	102	VAL
39	BH	127	PRO
39	BH	135	GLY
41	BJ	18	PRO
49	BT	109	VAL
53	BX	105	VAL
54	BY	57	GLY
55	BZ	81	VAL
59	Bd	60	GLY
2	CA	37	VAL
4	CC	112	GLY

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
4	CC	123	VAL
5	CD	120	ILE
5	CD	152	GLY
6	CE	42	ILE
15	CN	42	VAL
16	CO	25	VAL
36	DE	201	GLY
37	DF	152	THR
41	DJ	4	ARG
41	DJ	89	VAL
43	DN	46	ILE
47	DR	101	VAL
48	DS	96	ILE
51	DV	45	ASN
54	DY	28	HIS
57	Db	100	ILE
58	Dc	33	VAL
2	AA	37	VAL
6	AE	73	GLY
11	AJ	50	GLU
13	AL	105	VAL
17	AP	125	VAL
36	BE	192	PRO
36	BE	201	GLY
37	BF	84	VAL
41	BJ	117	GLY
41	BJ	131	ILE
42	BK	105	GLY
42	BK	117	ASP
43	BN	38	ILE
45	BP	95	GLY
45	BP	190	VAL
46	BQ	24	VAL
48	BS	17	VAL
50	BU	17	LEU
52	BW	83	VAL
55	BZ	18	ILE
2	CA	144	ILE
3	CB	123	GLY
4	CC	12	VAL
6	CE	73	GLY
9	CH	44	GLY

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
14	CM	112	GLY
17	CP	125	VAL
21	CT	15	GLY
32	DA	55	LEU
33	DB	135	ILE
36	DE	26	GLY
37	DF	75	PRO
40	DI	28	VAL
41	DJ	122	PRO
43	DN	18	GLY
49	DT	51	GLY
50	DU	55	GLY
52	DW	81	ILE
52	DW	83	VAL
57	Db	41	VAL
2	AA	152	PRO
6	AE	42	ILE
10	AI	117	GLY
14	AM	26	GLY
15	AN	42	VAL
17	AP	77	ILE
35	BD	22	LEU
35	BD	86	GLY
35	BD	216	VAL
40	BI	28	VAL
40	BI	101	VAL
41	BJ	27	PRO
41	BJ	89	VAL
43	BN	72	LEU
47	BR	132	PRO
55	BZ	88	GLY
57	Bb	5	PRO
57	Bb	67	SER
58	Bc	42	PRO
11	CJ	50	GLU
17	CP	117	ILE
33	DB	99	GLY
35	DD	192	GLY
36	DE	138	GLY
40	DI	24	ILE
41	DJ	117	GLY
41	DJ	131	ILE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
73	DM	51	VAL
49	DT	80	VAL
58	Dc	42	PRO
58	Bc	39	PRO
59	Bd	40	PRO
58	Dc	39	PRO

### 5.3.2 Protein sidechains ⓘ

There are no protein residues with a non-rotameric sidechain to report in this entry.

### 5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A1	1787/1800 (99%)	1003 (56%)	148 (8%)
1	C1	1787/1800 (99%)	990 (55%)	150 (8%)
29	B1	3203/3396 (94%)	1725 (53%)	259 (8%)
29	D1	3203/3396 (94%)	1714 (53%)	257 (8%)
30	B2	120/121 (99%)	70 (58%)	12 (10%)
30	D2	120/121 (99%)	66 (55%)	12 (10%)
31	B3	157/158 (99%)	80 (50%)	9 (5%)
31	D3	157/158 (99%)	79 (50%)	9 (5%)
All	All	10534/10950 (96%)	5727 (54%)	856 (8%)

All (5727) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A1	2	A
1	A1	3	U
1	A1	4	C
1	A1	7	G
1	A1	8	U
1	A1	13	C
1	A1	17	C
1	A1	20	G
1	A1	21	U
1	A1	22	A
1	A1	24	U
1	A1	25	C
1	A1	26	A
1	A1	27	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	31	C
1	A1	34	G
1	A1	35	U
1	A1	40	A
1	A1	41	A
1	A1	42	G
1	A1	45	U
1	A1	46	A
1	A1	47	A
1	A1	48	G
1	A1	50	C
1	A1	51	A
1	A1	54	C
1	A1	56	U
1	A1	57	G
1	A1	58	U
1	A1	59	C
1	A1	60	U
1	A1	61	A
1	A1	62	A
1	A1	63	G
1	A1	64	U
1	A1	65	A
1	A1	66	U
1	A1	67	A
1	A1	68	A
1	A1	69	G
1	A1	70	C
1	A1	71	A
1	A1	72	A
1	A1	75	U
1	A1	76	A
1	A1	77	U
1	A1	78	A
1	A1	79	C
1	A1	80	A
1	A1	81	G
1	A1	82	U
1	A1	83	G
1	A1	86	A
1	A1	88	U
1	A1	99	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	100	A
1	A1	102	U
1	A1	104	A
1	A1	105	A
1	A1	106	U
1	A1	111	U
1	A1	112	A
1	A1	113	U
1	A1	114	C
1	A1	115	G
1	A1	117	U
1	A1	119	A
1	A1	120	U
1	A1	121	U
1	A1	122	U
1	A1	123	G
1	A1	124	A
1	A1	125	U
1	A1	126	A
1	A1	128	U
1	A1	129	U
1	A1	130	C
1	A1	131	C
1	A1	132	U
1	A1	133	U
1	A1	134	U
1	A1	135	A
1	A1	136	C
1	A1	137	U
1	A1	138	A
1	A1	139	C
1	A1	140	A
1	A1	141	U
1	A1	143	G
1	A1	144	U
1	A1	145	A
1	A1	146	U
1	A1	147	A
1	A1	148	A
1	A1	149	C
1	A1	150	U
1	A1	151	G

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	156	A
1	A1	158	U
1	A1	159	U
1	A1	160	C
1	A1	161	U
1	A1	162	A
1	A1	166	C
1	A1	167	U
1	A1	168	A
1	A1	169	A
1	A1	170	U
1	A1	171	A
1	A1	172	C
1	A1	173	A
1	A1	174	U
1	A1	177	U
1	A1	178	U
1	A1	179	A
1	A1	180	A
1	A1	181	A
1	A1	184	C
1	A1	187	G
1	A1	191	C
1	A1	192	U
1	A1	193	U
1	A1	194	U
1	A1	195	G
1	A1	196	G
1	A1	197	A
1	A1	198	A
1	A1	199	G
1	A1	200	A
1	A1	201	G
1	A1	204	G
1	A1	208	U
1	A1	209	U
1	A1	211	U
1	A1	212	U
1	A1	213	A
1	A1	215	A
1	A1	218	A
1	A1	219	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	220	A
1	A1	224	C
1	A1	226	A
1	A1	227	U
1	A1	228	G
1	A1	229	U
1	A1	233	C
1	A1	234	G
1	A1	238	U
1	A1	241	U
1	A1	242	U
1	A1	243	G
1	A1	244	A
1	A1	245	U
1	A1	246	G
1	A1	249	U
1	A1	250	C
1	A1	252	U
1	A1	253	A
1	A1	254	A
1	A1	255	U
1	A1	256	A
1	A1	257	A
1	A1	259	U
1	A1	260	U
1	A1	261	U
1	A1	262	U
1	A1	263	C
1	A1	264	G
1	A1	265	A
1	A1	266	A
1	A1	267	U
1	A1	270	C
1	A1	271	A
1	A1	272	U
1	A1	273	G
1	A1	274	G
1	A1	276	C
1	A1	277	U
1	A1	278	U
1	A1	280	U
1	A1	282	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	283	U
1	A1	284	G
1	A1	285	G
1	A1	289	U
1	A1	295	A
1	A1	296	U
1	A1	297	U
1	A1	298	C
1	A1	299	A
1	A1	302	U
1	A1	308	C
1	A1	309	C
1	A1	310	C
1	A1	311	U
1	A1	312	A
1	A1	314	C
1	A1	316	A
1	A1	320	U
1	A1	321	C
1	A1	322	G
1	A1	323	A
1	A1	324	U
1	A1	327	U
1	A1	330	G
1	A1	331	A
1	A1	332	U
1	A1	333	A
1	A1	334	G
1	A1	335	U
1	A1	337	G
1	A1	338	C
1	A1	340	U
1	A1	341	A
1	A1	350	U
1	A1	351	C
1	A1	352	A
1	A1	354	C
1	A1	359	A
1	A1	360	A
1	A1	361	C
1	A1	365	G
1	A1	366	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	368	U
1	A1	369	A
1	A1	370	A
1	A1	373	G
1	A1	374	U
1	A1	375	U
1	A1	376	C
1	A1	378	A
1	A1	379	U
1	A1	381	C
1	A1	382	C
1	A1	383	G
1	A1	385	A
1	A1	387	A
1	A1	390	G
1	A1	393	C
1	A1	394	C
1	A1	395	U
1	A1	396	G
1	A1	399	A
1	A1	400	A
1	A1	401	A
1	A1	402	C
1	A1	403	G
1	A1	404	G
1	A1	406	U
1	A1	411	C
1	A1	415	C
1	A1	416	A
1	A1	417	A
1	A1	418	G
1	A1	419	G
1	A1	421	A
1	A1	424	C
1	A1	425	A
1	A1	426	G
1	A1	427	C
1	A1	428	A
1	A1	434	G
1	A1	437	A
1	A1	438	A
1	A1	439	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	440	U
1	A1	441	A
1	A1	444	C
1	A1	445	A
1	A1	446	A
1	A1	447	U
1	A1	448	C
1	A1	449	C
1	A1	451	A
1	A1	452	A
1	A1	453	U
1	A1	454	U
1	A1	455	C
1	A1	458	G
1	A1	459	G
1	A1	462	G
1	A1	464	A
1	A1	467	G
1	A1	468	A
1	A1	469	C
1	A1	470	A
1	A1	475	A
1	A1	477	A
1	A1	482	U
1	A1	485	A
1	A1	486	G
1	A1	487	G
1	A1	488	G
1	A1	489	C
1	A1	490	C
1	A1	493	U
1	A1	494	U
1	A1	495	C
1	A1	496	G
1	A1	498	G
1	A1	500	C
1	A1	504	U
1	A1	505	A
1	A1	506	A
1	A1	510	G
1	A1	511	A
1	A1	512	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	513	U
1	A1	514	G
1	A1	515	A
1	A1	516	G
1	A1	517	U
1	A1	519	C
1	A1	521	A
1	A1	522	U
1	A1	523	G
1	A1	524	U
1	A1	526	A
1	A1	527	A
1	A1	528	U
1	A1	529	A
1	A1	530	C
1	A1	531	C
1	A1	533	U
1	A1	535	A
1	A1	537	G
1	A1	538	A
1	A1	539	G
1	A1	540	G
1	A1	541	A
1	A1	542	A
1	A1	543	C
1	A1	544	A
1	A1	545	A
1	A1	546	U
1	A1	548	G
1	A1	550	A
1	A1	551	G
1	A1	554	C
1	A1	555	A
1	A1	556	A
1	A1	557	G
1	A1	558	U
1	A1	560	U
1	A1	561	G
1	A1	563	U
1	A1	564	G
1	A1	565	C
1	A1	568	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	570	A
1	A1	572	C
1	A1	574	G
1	A1	578	U
1	A1	579	A
1	A1	580	A
1	A1	585	A
1	A1	594	A
1	A1	595	G
1	A1	596	C
1	A1	599	A
1	A1	601	A
1	A1	602	U
1	A1	605	A
1	A1	607	G
1	A1	608	U
1	A1	609	U
1	A1	610	G
1	A1	611	U
1	A1	612	U
1	A1	614	C
1	A1	615	A
1	A1	616	G
1	A1	619	A
1	A1	620	A
1	A1	622	A
1	A1	623	A
1	A1	624	G
1	A1	626	U
1	A1	630	A
1	A1	633	U
1	A1	635	A
1	A1	638	U
1	A1	639	U
1	A1	640	U
1	A1	647	G
1	A1	649	U
1	A1	650	U
1	A1	653	C
1	A1	656	G
1	A1	659	C
1	A1	660	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	662	U
1	A1	663	U
1	A1	665	U
1	A1	666	U
1	A1	667	U
1	A1	681	U
1	A1	682	C
1	A1	683	C
1	A1	685	A
1	A1	686	C
1	A1	691	C
1	A1	692	C
1	A1	693	U
1	A1	694	U
1	A1	696	C
1	A1	697	C
1	A1	698	U
1	A1	700	C
1	A1	702	G
1	A1	703	G
1	A1	705	U
1	A1	708	C
1	A1	709	C
1	A1	710	U
1	A1	713	A
1	A1	714	G
1	A1	715	U
1	A1	718	U
1	A1	719	U
1	A1	720	G
1	A1	721	U
1	A1	722	G
1	A1	725	U
1	A1	726	C
1	A1	727	U
1	A1	728	U
1	A1	729	G
1	A1	731	C
1	A1	732	G
1	A1	733	A
1	A1	734	A
1	A1	735	C

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	736	C
1	A1	737	A
1	A1	738	G
1	A1	739	G
1	A1	742	U
1	A1	743	U
1	A1	744	U
1	A1	750	U
1	A1	751	G
1	A1	754	A
1	A1	756	A
1	A1	765	G
1	A1	766	U
1	A1	767	U
1	A1	774	A
1	A1	775	G
1	A1	778	G
1	A1	779	U
1	A1	780	A
1	A1	781	U
1	A1	782	U
1	A1	783	G
1	A1	787	G
1	A1	789	A
1	A1	790	U
1	A1	793	A
1	A1	794	U
1	A1	803	A
1	A1	808	U
1	A1	811	A
1	A1	812	A
1	A1	813	U
1	A1	814	A
1	A1	815	G
1	A1	816	G
1	A1	818	C
1	A1	819	G
1	A1	820	U
1	A1	821	U
1	A1	822	U
1	A1	823	G
1	A1	824	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	825	U
1	A1	826	U
1	A1	828	U
1	A1	829	A
1	A1	830	U
1	A1	831	U
1	A1	832	U
1	A1	834	G
1	A1	839	U
1	A1	840	U
1	A1	841	U
1	A1	842	C
1	A1	844	A
1	A1	847	A
1	A1	848	C
1	A1	850	A
1	A1	856	A
1	A1	857	U
1	A1	858	G
1	A1	860	U
1	A1	861	U
1	A1	862	A
1	A1	863	A
1	A1	864	U
1	A1	865	A
1	A1	872	G
1	A1	873	U
1	A1	876	G
1	A1	880	C
1	A1	881	A
1	A1	883	C
1	A1	886	U
1	A1	888	U
1	A1	891	A
1	A1	893	U
1	A1	894	U
1	A1	896	U
1	A1	897	C
1	A1	899	G
1	A1	901	G
1	A1	902	G
1	A1	903	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	904	G
1	A1	905	A
1	A1	906	A
1	A1	909	U
1	A1	910	C
1	A1	911	U
1	A1	912	U
1	A1	913	G
1	A1	914	G
1	A1	915	A
1	A1	916	U
1	A1	920	U
1	A1	922	G
1	A1	923	A
1	A1	927	C
1	A1	929	A
1	A1	932	U
1	A1	933	A
1	A1	934	C
1	A1	935	U
1	A1	938	G
1	A1	939	A
1	A1	942	G
1	A1	943	C
1	A1	944	A
1	A1	952	A
1	A1	959	U
1	A1	960	U
1	A1	961	U
1	A1	964	U
1	A1	965	U
1	A1	966	A
1	A1	967	A
1	A1	975	C
1	A1	976	G
1	A1	977	A
1	A1	978	A
1	A1	979	A
1	A1	981	U
1	A1	987	G
1	A1	988	A
1	A1	992	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	993	A
1	A1	995	A
1	A1	996	U
1	A1	998	A
1	A1	1000	C
1	A1	1003	A
1	A1	1004	U
1	A1	1005	A
1	A1	1007	C
1	A1	1008	G
1	A1	1010	C
1	A1	1019	A
1	A1	1027	A
1	A1	1028	C
1	A1	1029	U
1	A1	1030	A
1	A1	1032	G
1	A1	1033	C
1	A1	1036	A
1	A1	1039	A
1	A1	1040	G
1	A1	1044	U
1	A1	1045	C
1	A1	1046	G
1	A1	1048	G
1	A1	1049	U
1	A1	1057	U
1	A1	1058	U
1	A1	1059	U
1	A1	1060	U
1	A1	1066	C
1	A1	1071	U
1	A1	1072	C
1	A1	1073	G
1	A1	1074	G
1	A1	1075	C
1	A1	1077	C
1	A1	1079	U
1	A1	1080	U
1	A1	1082	C
1	A1	1087	A
1	A1	1089	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1090	C
1	A1	1091	A
1	A1	1092	A
1	A1	1093	A
1	A1	1094	G
1	A1	1095	U
1	A1	1096	C
1	A1	1097	U
1	A1	1098	U
1	A1	1099	U
1	A1	1100	G
1	A1	1101	G
1	A1	1103	U
1	A1	1107	G
1	A1	1108	G
1	A1	1109	G
1	A1	1110	G
1	A1	1111	G
1	A1	1112	G
1	A1	1113	A
1	A1	1114	G
1	A1	1115	U
1	A1	1119	G
1	A1	1123	C
1	A1	1124	A
1	A1	1126	G
1	A1	1129	U
1	A1	1136	U
1	A1	1137	A
1	A1	1138	A
1	A1	1139	A
1	A1	1140	G
1	A1	1141	G
1	A1	1142	A
1	A1	1143	A
1	A1	1145	U
1	A1	1146	G
1	A1	1147	A
1	A1	1149	G
1	A1	1150	G
1	A1	1151	A
1	A1	1152	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1153	G
1	A1	1154	G
1	A1	1158	C
1	A1	1160	A
1	A1	1161	C
1	A1	1162	C
1	A1	1166	A
1	A1	1167	G
1	A1	1168	U
1	A1	1178	G
1	A1	1179	G
1	A1	1181	U
1	A1	1185	U
1	A1	1186	U
1	A1	1189	A
1	A1	1190	C
1	A1	1191	U
1	A1	1193	A
1	A1	1194	A
1	A1	1196	A
1	A1	1197	C
1	A1	1198	G
1	A1	1199	G
1	A1	1200	G
1	A1	1201	G
1	A1	1202	A
1	A1	1203	A
1	A1	1204	A
1	A1	1205	C
1	A1	1206	U
1	A1	1207	C
1	A1	1208	A
1	A1	1211	A
1	A1	1217	A
1	A1	1218	G
1	A1	1219	A
1	A1	1220	C
1	A1	1222	C
1	A1	1225	U
1	A1	1228	G
1	A1	1229	G
1	A1	1230	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1231	U
1	A1	1232	U
1	A1	1234	A
1	A1	1235	C
1	A1	1238	A
1	A1	1239	U
1	A1	1240	U
1	A1	1242	A
1	A1	1243	G
1	A1	1244	A
1	A1	1245	G
1	A1	1248	C
1	A1	1254	U
1	A1	1255	G
1	A1	1256	A
1	A1	1257	U
1	A1	1258	U
1	A1	1259	U
1	A1	1260	U
1	A1	1264	G
1	A1	1266	U
1	A1	1268	G
1	A1	1270	G
1	A1	1273	G
1	A1	1274	C
1	A1	1275	A
1	A1	1276	U
1	A1	1280	C
1	A1	1283	U
1	A1	1284	C
1	A1	1286	U
1	A1	1287	A
1	A1	1288	G
1	A1	1290	U
1	A1	1297	G
1	A1	1302	U
1	A1	1306	C
1	A1	1310	U
1	A1	1311	U
1	A1	1312	A
1	A1	1314	U
1	A1	1315	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1316	G
1	A1	1321	A
1	A1	1324	G
1	A1	1325	A
1	A1	1326	A
1	A1	1331	A
1	A1	1332	C
1	A1	1333	C
1	A1	1335	U
1	A1	1336	A
1	A1	1337	A
1	A1	1340	U
1	A1	1341	A
1	A1	1342	C
1	A1	1345	A
1	A1	1346	A
1	A1	1347	U
1	A1	1349	G
1	A1	1350	U
1	A1	1351	G
1	A1	1352	G
1	A1	1353	U
1	A1	1354	G
1	A1	1355	C
1	A1	1358	G
1	A1	1359	C
1	A1	1360	A
1	A1	1361	U
1	A1	1362	U
1	A1	1363	U
1	A1	1364	G
1	A1	1365	C
1	A1	1366	U
1	A1	1367	G
1	A1	1368	G
1	A1	1369	U
1	A1	1371	A
1	A1	1373	C
1	A1	1374	C
1	A1	1378	U
1	A1	1379	C
1	A1	1380	U

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1383	G
1	A1	1384	A
1	A1	1388	A
1	A1	1390	U
1	A1	1391	A
1	A1	1392	U
1	A1	1397	U
1	A1	1398	U
1	A1	1399	C
1	A1	1400	A
1	A1	1401	A
1	A1	1402	G
1	A1	1407	U
1	A1	1408	G
1	A1	1409	G
1	A1	1410	A
1	A1	1412	G
1	A1	1413	U
1	A1	1414	U
1	A1	1415	U
1	A1	1418	G
1	A1	1419	G
1	A1	1420	C
1	A1	1422	A
1	A1	1427	A
1	A1	1428	G
1	A1	1429	G
1	A1	1431	C
1	A1	1432	U
1	A1	1433	G
1	A1	1434	U
1	A1	1435	G
1	A1	1436	A
1	A1	1438	G
1	A1	1443	U
1	A1	1445	G
1	A1	1446	A
1	A1	1447	C
1	A1	1448	G
1	A1	1449	U
1	A1	1450	U
1	A1	1453	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1454	G
1	A1	1455	G
1	A1	1456	C
1	A1	1458	G
1	A1	1459	C
1	A1	1460	A
1	A1	1461	C
1	A1	1466	G
1	A1	1467	C
1	A1	1468	U
1	A1	1469	A
1	A1	1471	A
1	A1	1472	C
1	A1	1473	U
1	A1	1474	G
1	A1	1477	G
1	A1	1478	G
1	A1	1479	A
1	A1	1481	C
1	A1	1482	C
1	A1	1483	A
1	A1	1484	G
1	A1	1485	C
1	A1	1486	G
1	A1	1490	C
1	A1	1491	U
1	A1	1492	A
1	A1	1493	A
1	A1	1494	C
1	A1	1503	A
1	A1	1505	A
1	A1	1506	G
1	A1	1509	C
1	A1	1510	U
1	A1	1514	U
1	A1	1515	A
1	A1	1516	A
1	A1	1517	U
1	A1	1518	C
1	A1	1519	U
1	A1	1521	G
1	A1	1522	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1523	G
1	A1	1524	A
1	A1	1533	C
1	A1	1534	G
1	A1	1535	U
1	A1	1536	G
1	A1	1537	C
1	A1	1538	U
1	A1	1539	G
1	A1	1540	G
1	A1	1541	G
1	A1	1542	G
1	A1	1545	A
1	A1	1547	A
1	A1	1548	G
1	A1	1550	A
1	A1	1551	U
1	A1	1553	G
1	A1	1554	U
1	A1	1555	A
1	A1	1556	A
1	A1	1557	U
1	A1	1558	U
1	A1	1559	A
1	A1	1560	U
1	A1	1565	C
1	A1	1568	C
1	A1	1570	A
1	A1	1572	G
1	A1	1573	A
1	A1	1574	G
1	A1	1575	G
1	A1	1576	A
1	A1	1581	C
1	A1	1583	A
1	A1	1584	G
1	A1	1587	A
1	A1	1590	G
1	A1	1591	C
1	A1	1592	A
1	A1	1599	C
1	A1	1600	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1601	G
1	A1	1602	C
1	A1	1605	G
1	A1	1607	G
1	A1	1609	U
1	A1	1610	G
1	A1	1611	A
1	A1	1613	U
1	A1	1614	A
1	A1	1615	C
1	A1	1616	G
1	A1	1618	C
1	A1	1623	C
1	A1	1624	C
1	A1	1625	C
1	A1	1627	U
1	A1	1628	U
1	A1	1630	U
1	A1	1631	A
1	A1	1632	C
1	A1	1633	A
1	A1	1634	C
1	A1	1635	A
1	A1	1636	C
1	A1	1637	C
1	A1	1638	G
1	A1	1639	C
1	A1	1642	G
1	A1	1644	C
1	A1	1645	G
1	A1	1646	C
1	A1	1650	U
1	A1	1654	G
1	A1	1656	U
1	A1	1657	U
1	A1	1658	G
1	A1	1659	A
1	A1	1664	C
1	A1	1665	U
1	A1	1667	A
1	A1	1668	G
1	A1	1673	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1674	C
1	A1	1675	C
1	A1	1676	U
1	A1	1677	C
1	A1	1678	A
1	A1	1680	G
1	A1	1681	A
1	A1	1682	U
1	A1	1683	C
1	A1	1684	U
1	A1	1685	G
1	A1	1688	U
1	A1	1689	A
1	A1	1691	A
1	A1	1692	G
1	A1	1693	A
1	A1	1695	G
1	A1	1696	G
1	A1	1698	G
1	A1	1700	C
1	A1	1701	A
1	A1	1706	C
1	A1	1707	A
1	A1	1710	U
1	A1	1711	C
1	A1	1716	C
1	A1	1719	A
1	A1	1720	G
1	A1	1722	A
1	A1	1728	A
1	A1	1731	A
1	A1	1739	C
1	A1	1742	U
1	A1	1744	A
1	A1	1746	A
1	A1	1748	G
1	A1	1754	A
1	A1	1755	A
1	A1	1757	G
1	A1	1758	U
1	A1	1759	C
1	A1	1760	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1762	A
1	A1	1763	A
1	A1	1764	C
1	A1	1766	A
1	A1	1767	G
1	A1	1768	G
1	A1	1769	U
1	A1	1770	U
1	A1	1772	C
1	A1	1773	C
1	A1	1774	G
1	A1	1777	G
1	A1	1779	U
1	A1	1780	G
1	A1	1782	A
1	A1	1783	C
1	A1	1788	G
1	A1	1792	G
1	A1	1793	G
1	A1	1794	A
1	A1	1795	U
1	A1	1797	A
1	A1	1798	U
29	B1	6	A
29	B1	9	U
29	B1	12	A
29	B1	14	U
29	B1	15	C
29	B1	16	A
29	B1	20	A
29	B1	21	G
29	B1	25	U
29	B1	29	C
29	B1	32	U
29	B1	35	A
29	B1	38	U
29	B1	40	A
29	B1	43	A
29	B1	44	U
29	B1	47	C
29	B1	50	U
29	B1	53	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	56	G
29	B1	58	G
29	B1	59	G
29	B1	60	A
29	B1	62	A
29	B1	65	A
29	B1	66	A
29	B1	68	C
29	B1	69	C
29	B1	70	A
29	B1	71	A
29	B1	72	C
29	B1	73	C
29	B1	74	G
29	B1	76	G
29	B1	77	A
29	B1	81	C
29	B1	83	U
29	B1	85	A
29	B1	87	U
29	B1	88	A
29	B1	89	A
29	B1	92	G
29	B1	93	C
29	B1	94	G
29	B1	96	G
29	B1	97	U
29	B1	98	G
29	B1	99	A
29	B1	100	A
29	B1	102	C
29	B1	103	G
29	B1	105	C
29	B1	106	A
29	B1	108	A
29	B1	109	A
29	B1	110	G
29	B1	113	C
29	B1	114	A
29	B1	117	U
29	B1	118	U
29	B1	119	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	120	G
29	B1	121	A
29	B1	125	C
29	B1	126	U
29	B1	127	G
29	B1	131	C
29	B1	133	U
29	B1	134	U
29	B1	136	G
29	B1	138	U
29	B1	140	C
29	B1	141	C
29	B1	144	A
29	B1	145	G
29	B1	146	U
29	B1	147	U
29	B1	148	G
29	B1	149	U
29	B1	150	A
29	B1	152	U
29	B1	154	U
29	B1	155	G
29	B1	156	G
29	B1	157	A
29	B1	158	G
29	B1	159	A
29	B1	160	G
29	B1	161	G
29	B1	164	A
29	B1	167	U
29	B1	169	U
29	B1	170	G
29	B1	171	G
29	B1	172	G
29	B1	173	G
29	B1	175	C
29	B1	176	G
29	B1	177	U
29	B1	178	U
29	B1	179	C
29	B1	182	U
29	B1	187	A

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	188	U
29	B1	190	U
29	B1	191	U
29	B1	196	G
29	B1	197	G
29	B1	199	A
29	B1	201	A
29	B1	204	A
29	B1	205	C
29	B1	209	A
29	B1	210	U
29	B1	211	A
29	B1	214	G
29	B1	215	G
29	B1	217	U
29	B1	218	G
29	B1	219	A
29	B1	220	G
29	B1	221	A
29	B1	223	U
29	B1	224	C
29	B1	225	C
29	B1	227	G
29	B1	230	U
29	B1	231	G
29	B1	237	G
29	B1	238	A
29	B1	239	G
29	B1	240	U
29	B1	241	G
29	B1	242	C
29	B1	244	G
29	B1	245	U
29	B1	246	U
29	B1	247	C
29	B1	248	U
29	B1	249	U
29	B1	250	U
29	B1	251	G
29	B1	252	U
29	B1	253	A
29	B1	255	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	256	G
29	B1	257	U
29	B1	258	G
29	B1	259	C
29	B1	260	C
29	B1	262	U
29	B1	263	C
29	B1	264	G
29	B1	265	A
29	B1	266	A
29	B1	267	G
29	B1	269	G
29	B1	282	G
29	B1	283	G
29	B1	284	A
29	B1	285	A
29	B1	289	A
29	B1	292	U
29	B1	293	C
29	B1	295	A
29	B1	297	G
29	B1	298	U
29	B1	301	G
29	B1	304	G
29	B1	305	U
29	B1	306	A
29	B1	307	A
29	B1	311	C
29	B1	315	C
29	B1	316	U
29	B1	317	A
29	B1	318	A
29	B1	319	A
29	B1	323	A
29	B1	324	A
29	B1	325	A
29	B1	326	U
29	B1	327	A
29	B1	328	U
29	B1	329	U
29	B1	330	G
29	B1	331	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	332	C
29	B1	333	G
29	B1	335	G
29	B1	338	A
29	B1	339	C
29	B1	340	C
29	B1	341	G
29	B1	342	A
29	B1	345	G
29	B1	346	C
29	B1	349	A
29	B1	350	C
29	B1	351	A
29	B1	352	A
29	B1	354	U
29	B1	362	U
29	B1	364	G
29	B1	368	G
29	B1	371	G
29	B1	374	A
29	B1	375	A
29	B1	376	G
29	B1	377	A
29	B1	378	A
29	B1	379	C
29	B1	380	U
29	B1	381	U
29	B1	382	U
29	B1	383	G
29	B1	384	A
29	B1	385	A
29	B1	386	A
29	B1	387	A
29	B1	390	G
29	B1	391	A
29	B1	392	G
29	B1	395	A
29	B1	396	A
29	B1	397	A
29	B1	398	A
29	B1	399	A
29	B1	400	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	401	U
29	B1	402	A
29	B1	403	C
29	B1	404	G
29	B1	419	G
29	B1	421	G
29	B1	422	A
29	B1	423	A
29	B1	424	G
29	B1	425	G
29	B1	428	A
29	B1	429	U
29	B1	431	U
29	B1	432	G
29	B1	439	C
29	B1	493	G
29	B1	495	G
29	B1	500	C
29	B1	504	A
29	B1	509	U
29	B1	510	G
29	B1	511	G
29	B1	514	G
29	B1	515	C
29	B1	516	A
29	B1	517	G
29	B1	518	G
29	B1	519	A
29	B1	520	U
29	B1	521	A
29	B1	523	A
29	B1	524	U
29	B1	525	C
29	B1	528	U
29	B1	529	A
29	B1	533	A
29	B1	536	U
29	B1	537	A
29	B1	538	G
29	B1	539	C
29	B1	540	U
29	B1	541	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	544	C
29	B1	546	C
29	B1	547	G
29	B1	548	G
29	B1	549	U
29	B1	550	A
29	B1	556	U
29	B1	559	A
29	B1	560	G
29	B1	561	C
29	B1	562	C
29	B1	563	U
29	B1	564	G
29	B1	565	U
29	B1	566	G
29	B1	571	U
29	B1	574	U
29	B1	575	G
29	B1	576	C
29	B1	577	C
29	B1	578	A
29	B1	579	G
29	B1	580	C
29	B1	584	G
29	B1	586	C
29	B1	588	G
29	B1	590	G
29	B1	591	G
29	B1	592	A
29	B1	593	C
29	B1	594	U
29	B1	595	G
29	B1	597	G
29	B1	603	A
29	B1	604	G
29	B1	605	U
29	B1	606	C
29	B1	607	A
29	B1	608	A
29	B1	609	G
29	B1	610	G
29	B1	611	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	612	U
29	B1	618	C
29	B1	619	A
29	B1	620	U
29	B1	621	A
29	B1	622	A
29	B1	624	G
29	B1	625	G
29	B1	626	U
29	B1	628	A
29	B1	630	A
29	B1	632	G
29	B1	636	C
29	B1	637	C
29	B1	642	U
29	B1	645	A
29	B1	646	A
29	B1	647	A
29	B1	648	C
29	B1	649	A
29	B1	650	C
29	B1	651	G
29	B1	656	A
29	B1	657	A
29	B1	661	G
29	B1	666	A
29	B1	667	C
29	B1	668	G
29	B1	669	U
29	B1	674	G
29	B1	675	C
29	B1	677	A
29	B1	679	U
29	B1	680	G
29	B1	681	U
29	B1	682	U
29	B1	683	U
29	B1	685	G
29	B1	691	A
29	B1	692	A
29	B1	694	C
29	B1	697	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	698	U
29	B1	699	A
29	B1	705	A
29	B1	706	A
29	B1	712	G
29	B1	714	G
29	B1	715	A
29	B1	716	A
29	B1	717	C
29	B1	718	G
29	B1	719	U
29	B1	720	A
29	B1	721	G
29	B1	722	G
29	B1	723	U
29	B1	724	U
29	B1	725	G
29	B1	726	G
29	B1	727	G
29	B1	728	G
29	B1	731	U
29	B1	732	C
29	B1	733	G
29	B1	734	C
29	B1	735	A
29	B1	736	A
29	B1	738	A
29	B1	741	U
29	B1	743	C
29	B1	744	A
29	B1	745	C
29	B1	746	A
29	B1	747	A
29	B1	748	U
29	B1	749	C
29	B1	751	A
29	B1	752	C
29	B1	753	C
29	B1	756	U
29	B1	757	C
29	B1	758	C
29	B1	759	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	761	A
29	B1	762	U
29	B1	764	U
29	B1	765	C
29	B1	766	U
29	B1	767	U
29	B1	768	C
29	B1	769	G
29	B1	770	G
29	B1	771	A
29	B1	772	U
29	B1	774	G
29	B1	776	U
29	B1	777	U
29	B1	778	U
29	B1	779	G
29	B1	781	G
29	B1	782	U
29	B1	784	A
29	B1	785	G
29	B1	786	A
29	B1	787	G
29	B1	788	C
29	B1	791	A
29	B1	794	U
29	B1	798	G
29	B1	802	C
29	B1	803	C
29	B1	805	G
29	B1	806	A
29	B1	807	A
29	B1	808	A
29	B1	809	G
29	B1	810	A
29	B1	815	G
29	B1	817	A
29	B1	822	G
29	B1	825	U
29	B1	826	G
29	B1	828	A
29	B1	830	A
29	B1	831	G

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	834	U
29	B1	835	G
29	B1	836	A
29	B1	837	A
29	B1	838	G
29	B1	841	A
29	B1	845	G
29	B1	846	A
29	B1	847	A
29	B1	857	G
29	B1	858	A
29	B1	859	G
29	B1	860	G
29	B1	861	C
29	B1	863	C
29	B1	870	G
29	B1	871	U
29	B1	874	U
29	B1	875	G
29	B1	879	U
29	B1	880	G
29	B1	882	A
29	B1	884	A
29	B1	886	C
29	B1	887	G
29	B1	888	A
29	B1	892	U
29	B1	894	G
29	B1	895	A
29	B1	896	A
29	B1	897	U
29	B1	901	G
29	B1	903	U
29	B1	907	G
29	B1	908	G
29	B1	909	G
29	B1	911	C
29	B1	913	A
29	B1	914	A
29	B1	915	A
29	B1	916	G
29	B1	917	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	920	A
29	B1	921	A
29	B1	922	U
29	B1	924	G
29	B1	933	A
29	B1	934	G
29	B1	937	G
29	B1	939	U
29	B1	941	G
29	B1	943	U
29	B1	944	C
29	B1	945	C
29	B1	947	G
29	B1	949	C
29	B1	952	A
29	B1	953	G
29	B1	954	U
29	B1	957	C
29	B1	958	C
29	B1	960	U
29	B1	961	C
29	B1	962	A
29	B1	963	G
29	B1	967	A
29	B1	970	A
29	B1	971	G
29	B1	974	G
29	B1	975	C
29	B1	978	G
29	B1	979	U
29	B1	980	A
29	B1	981	U
29	B1	984	G
29	B1	987	U
29	B1	994	G
29	B1	995	U
29	B1	996	A
29	B1	1000	C
29	B1	1002	A
29	B1	1006	A
29	B1	1007	U
29	B1	1010	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1011	A
29	B1	1013	G
29	B1	1014	U
29	B1	1015	U
29	B1	1017	C
29	B1	1019	G
29	B1	1024	G
29	B1	1026	A
29	B1	1027	A
29	B1	1030	A
29	B1	1033	U
29	B1	1036	A
29	B1	1038	C
29	B1	1041	U
29	B1	1042	U
29	B1	1043	C
29	B1	1047	A
29	B1	1048	A
29	B1	1049	C
29	B1	1053	A
29	B1	1060	U
29	B1	1061	A
29	B1	1063	G
29	B1	1064	A
29	B1	1065	A
29	B1	1066	G
29	B1	1067	U
29	B1	1068	C
29	B1	1071	U
29	B1	1073	U
29	B1	1074	U
29	B1	1075	A
29	B1	1077	U
29	B1	1078	U
29	B1	1079	A
29	B1	1080	A
29	B1	1081	U
29	B1	1082	U
29	B1	1085	A
29	B1	1086	C
29	B1	1093	A
29	B1	1094	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1095	U
29	B1	1096	U
29	B1	1097	G
29	B1	1098	A
29	B1	1100	U
29	B1	1101	G
29	B1	1102	A
29	B1	1103	A
29	B1	1104	G
29	B1	1105	A
29	B1	1109	U
29	B1	1110	U
29	B1	1113	G
29	B1	1115	G
29	B1	1116	G
29	B1	1117	G
29	B1	1119	C
29	B1	1120	A
29	B1	1123	U
29	B1	1124	U
29	B1	1128	U
29	B1	1129	A
29	B1	1130	A
29	B1	1131	G
29	B1	1132	C
29	B1	1133	A
29	B1	1136	A
29	B1	1139	G
29	B1	1140	G
29	B1	1142	G
29	B1	1143	A
29	B1	1144	U
29	B1	1145	G
29	B1	1149	G
29	B1	1151	U
29	B1	1152	G
29	B1	1153	A
29	B1	1154	A
29	B1	1155	C
29	B1	1157	G
29	B1	1158	A
29	B1	1159	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1160	C
29	B1	1162	U
29	B1	1163	A
29	B1	1168	U
29	B1	1169	A
29	B1	1175	C
29	B1	1176	C
29	B1	1177	G
29	B1	1178	G
29	B1	1179	A
29	B1	1180	A
29	B1	1181	U
29	B1	1184	A
29	B1	1187	C
29	B1	1190	A
29	B1	1191	U
29	B1	1192	C
29	B1	1193	A
29	B1	1194	G
29	B1	1195	A
29	B1	1196	C
29	B1	1197	A
29	B1	1198	C
29	B1	1199	C
29	B1	1200	A
29	B1	1201	C
29	B1	1202	A
29	B1	1203	A
29	B1	1205	A
29	B1	1207	G
29	B1	1208	U
29	B1	1209	G
29	B1	1211	U
29	B1	1212	A
29	B1	1213	G
29	B1	1214	U
29	B1	1217	A
29	B1	1218	U
29	B1	1219	C
29	B1	1220	U
29	B1	1222	G
29	B1	1223	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
29	B1	1224	C
29	B1	1225	A
29	B1	1226	G
29	B1	1231	A
29	B1	1232	C
29	B1	1233	G
29	B1	1234	G
29	B1	1235	U
29	B1	1236	G
29	B1	1237	G
29	B1	1238	C
29	B1	1242	G
29	B1	1243	G
29	B1	1244	A
29	B1	1245	A
29	B1	1246	G
29	B1	1247	U
29	B1	1248	C
29	B1	1250	G
29	B1	1252	A
29	B1	1253	U
29	B1	1254	C
29	B1	1256	G
29	B1	1257	C
29	B1	1258	U
29	B1	1259	A
29	B1	1260	A
29	B1	1261	G
29	B1	1262	G
29	B1	1263	A
29	B1	1264	G
29	B1	1265	U
29	B1	1267	U
29	B1	1269	U
29	B1	1270	A
29	B1	1272	C
29	B1	1273	A
29	B1	1277	C
29	B1	1278	A
29	B1	1279	C
29	B1	1281	G
29	B1	1285	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1286	A
29	B1	1287	A
29	B1	1288	U
29	B1	1289	G
29	B1	1290	A
29	B1	1291	A
29	B1	1292	C
29	B1	1295	G
29	B1	1296	C
29	B1	1297	C
29	B1	1299	U
29	B1	1303	A
29	B1	1305	U
29	B1	1307	G
29	B1	1308	A
29	B1	1309	U
29	B1	1310	G
29	B1	1313	G
29	B1	1314	C
29	B1	1315	U
29	B1	1316	C
29	B1	1318	A
29	B1	1320	C
29	B1	1323	G
29	B1	1324	U
29	B1	1325	U
29	B1	1326	A
29	B1	1330	A
29	B1	1331	U
29	B1	1332	A
29	B1	1342	C
29	B1	1348	U
29	B1	1349	G
29	B1	1350	A
29	B1	1351	U
29	B1	1353	U
29	B1	1354	G
29	B1	1355	A
29	B1	1356	U
29	B1	1365	G
29	B1	1367	G
29	B1	1368	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1370	G
29	B1	1371	G
29	B1	1378	U
29	B1	1379	G
29	B1	1380	G
29	B1	1384	U
29	B1	1385	C
29	B1	1386	A
29	B1	1389	G
29	B1	1390	A
29	B1	1392	G
29	B1	1394	A
29	B1	1395	G
29	B1	1398	U
29	B1	1399	A
29	B1	1400	G
29	B1	1404	G
29	B1	1405	U
29	B1	1406	A
29	B1	1407	A
29	B1	1408	G
29	B1	1410	U
29	B1	1411	C
29	B1	1412	G
29	B1	1416	C
29	B1	1418	A
29	B1	1419	A
29	B1	1429	G
29	B1	1430	U
29	B1	1431	G
29	B1	1434	G
29	B1	1435	A
29	B1	1437	C
29	B1	1440	G
29	B1	1441	G
29	B1	1442	U
29	B1	1445	U
29	B1	1446	A
29	B1	1450	G
29	B1	1453	A
29	B1	1455	U
29	B1	1456	A

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1460	A
29	B1	1462	A
29	B1	1465	A
29	B1	1467	A
29	B1	1468	A
29	B1	1469	C
29	B1	1470	U
29	B1	1478	C
29	B1	1479	U
29	B1	1480	G
29	B1	1481	A
29	B1	1482	A
29	B1	1483	G
29	B1	1484	U
29	B1	1485	G
29	B1	1488	G
29	B1	1493	G
29	B1	1495	U
29	B1	1496	C
29	B1	1497	C
29	B1	1501	U
29	B1	1503	A
29	B1	1504	A
29	B1	1505	C
29	B1	1506	A
29	B1	1507	G
29	B1	1508	C
29	B1	1509	A
29	B1	1510	G
29	B1	1511	U
29	B1	1520	G
29	B1	1521	G
29	B1	1524	A
29	B1	1525	G
29	B1	1527	C
29	B1	1530	U
29	B1	1531	C
29	B1	1533	U
29	B1	1535	A
29	B1	1536	G
29	B1	1539	A
29	B1	1540	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1542	G
29	B1	1548	C
29	B1	1549	U
29	B1	1551	C
29	B1	1552	G
29	B1	1553	U
29	B1	1554	U
29	B1	1556	C
29	B1	1557	A
29	B1	1558	A
29	B1	1559	A
29	B1	1560	G
29	B1	1567	U
29	B1	1568	U
29	B1	1572	U
29	B1	1575	A
29	B1	1579	C
29	B1	1580	A
29	B1	1581	C
29	B1	1582	C
29	B1	1583	A
29	B1	1584	U
29	B1	1587	A
29	B1	1589	A
29	B1	1593	A
29	B1	1595	U
29	B1	1596	C
29	B1	1601	U
29	B1	1602	A
29	B1	1605	A
29	B1	1606	U
29	B1	1607	U
29	B1	1608	C
29	B1	1609	C
29	B1	1610	G
29	B1	1620	U
29	B1	1622	U
29	B1	1626	U
29	B1	1627	U
29	B1	1628	C
29	B1	1629	U
29	B1	1630	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1631	C
29	B1	1632	A
29	B1	1633	C
29	B1	1634	G
29	B1	1635	G
29	B1	1636	U
29	B1	1638	A
29	B1	1639	C
29	B1	1641	U
29	B1	1642	A
29	B1	1643	A
29	B1	1644	C
29	B1	1645	U
29	B1	1646	G
29	B1	1652	G
29	B1	1653	G
29	B1	1655	G
29	B1	1656	A
29	B1	1657	C
29	B1	1661	G
29	B1	1667	A
29	B1	1668	G
29	B1	1671	C
29	B1	1672	U
29	B1	1678	G
29	B1	1681	U
29	B1	1682	U
29	B1	1683	A
29	B1	1684	U
29	B1	1685	C
29	B1	1686	U
29	B1	1687	U
29	B1	1688	U
29	B1	1689	U
29	B1	1692	U
29	B1	1694	U
29	B1	1698	C
29	B1	1699	A
29	B1	1701	C
29	B1	1703	U
29	B1	1704	A
29	B1	1706	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1708	C
29	B1	1710	C
29	B1	1713	G
29	B1	1714	A
29	B1	1716	U
29	B1	1717	U
29	B1	1724	U
29	B1	1725	C
29	B1	1726	C
29	B1	1727	G
29	B1	1728	G
29	B1	1729	A
29	B1	1730	G
29	B1	1734	G
29	B1	1735	G
29	B1	1736	G
29	B1	1739	U
29	B1	1740	U
29	B1	1744	G
29	B1	1750	A
29	B1	1754	G
29	B1	1756	C
29	B1	1760	A
29	B1	1762	C
29	B1	1766	G
29	B1	1769	G
29	B1	1773	C
29	B1	1774	C
29	B1	1775	G
29	B1	1779	C
29	B1	1780	G
29	B1	1781	C
29	B1	1782	U
29	B1	1783	U
29	B1	1786	G
29	B1	1787	A
29	B1	1788	C
29	B1	1792	C
29	B1	1793	C
29	B1	1794	G
29	B1	1795	U
29	B1	1796	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1797	A
29	B1	1802	C
29	B1	1803	C
29	B1	1806	A
29	B1	1807	G
29	B1	1808	G
29	B1	1809	A
29	B1	1810	A
29	B1	1812	G
29	B1	1813	A
29	B1	1814	A
29	B1	1815	U
29	B1	1816	A
29	B1	1820	U
29	B1	1821	U
29	B1	1822	C
29	B1	1830	G
29	B1	1834	U
29	B1	1835	A
29	B1	1839	A
29	B1	1840	U
29	B1	1841	A
29	B1	1842	A
29	B1	1844	C
29	B1	1846	C
29	B1	1847	A
29	B1	1849	C
29	B1	1852	G
29	B1	1853	U
29	B1	1855	U
29	B1	1857	C
29	B1	1858	A
29	B1	1859	A
29	B1	1860	G
29	B1	1864	A
29	B1	1871	U
29	B1	1875	G
29	B1	1876	U
29	B1	1877	U
29	B1	1878	G
29	B1	1879	A
29	B1	1880	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1881	A
29	B1	1885	U
29	B1	1886	A
29	B1	1889	G
29	B1	1891	A
29	B1	1895	A
29	B1	1901	A
29	B1	1905	G
29	B1	1906	G
29	B1	1907	C
29	B1	1913	A
29	B1	1914	G
29	B1	1920	U
29	B1	1921	A
29	B1	1925	U
29	B1	1926	C
29	B1	1927	G
29	B1	1928	G
29	B1	1930	A
29	B1	1931	U
29	B1	1932	A
29	B1	1933	A
29	B1	1935	G
29	B1	1941	C
29	B1	1946	A
29	B1	1947	G
29	B1	1948	G
29	B1	1950	U
29	B1	2093	A
29	B1	2095	G
29	B1	2096	A
29	B1	2102	U
29	B1	2105	G
29	B1	2106	A
29	B1	2111	G
29	B1	2112	U
29	B1	2113	A
29	B1	2114	C
29	B1	2115	G
29	B1	2117	A
29	B1	2121	G
29	B1	2122	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2126	A
29	B1	2129	U
29	B1	2130	G
29	B1	2131	A
29	B1	2132	C
29	B1	2137	U
29	B1	2138	A
29	B1	2139	A
29	B1	2144	A
29	B1	2147	A
29	B1	2148	U
29	B1	2149	A
29	B1	2150	G
29	B1	2151	C
29	B1	2152	A
29	B1	2158	A
29	B1	2161	G
29	B1	2168	A
29	B1	2169	G
29	B1	2172	A
29	B1	2173	U
29	B1	2174	G
29	B1	2176	U
29	B1	2178	A
29	B1	2185	G
29	B1	2187	G
29	B1	2188	A
29	B1	2191	U
29	B1	2193	U
29	B1	2194	G
29	B1	2195	C
29	B1	2201	G
29	B1	2205	U
29	B1	2206	G
29	B1	2207	A
29	B1	2208	A
29	B1	2209	U
29	B1	2210	G
29	B1	2211	U
29	B1	2215	A
29	B1	2222	A
29	B1	2223	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2224	A
29	B1	2227	C
29	B1	2237	C
29	B1	2244	A
29	B1	2247	G
29	B1	2248	C
29	B1	2249	G
29	B1	2250	G
29	B1	2252	A
29	B1	2254	U
29	B1	2255	A
29	B1	2256	A
29	B1	2257	C
29	B1	2259	A
29	B1	2260	U
29	B1	2261	G
29	B1	2262	A
29	B1	2263	C
29	B1	2264	U
29	B1	2266	U
29	B1	2270	A
29	B1	2272	G
29	B1	2273	G
29	B1	2275	A
29	B1	2276	G
29	B1	2277	C
29	B1	2280	A
29	B1	2281	A
29	B1	2282	U
29	B1	2283	G
29	B1	2286	U
29	B1	2288	G
29	B1	2290	C
29	B1	2291	A
29	B1	2292	U
29	B1	2295	A
29	B1	2296	A
29	B1	2297	U
29	B1	2298	U
29	B1	2299	A
29	B1	2300	G
29	B1	2303	A

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2306	C
29	B1	2307	G
29	B1	2308	C
29	B1	2309	A
29	B1	2310	U
29	B1	2311	G
29	B1	2313	A
29	B1	2314	U
29	B1	2315	G
29	B1	2320	A
29	B1	2324	A
29	B1	2325	G
29	B1	2326	A
29	B1	2327	U
29	B1	2329	C
29	B1	2330	C
29	B1	2334	U
29	B1	2335	G
29	B1	2336	U
29	B1	2339	C
29	B1	2341	A
29	B1	2342	U
29	B1	2344	U
29	B1	2345	A
29	B1	2360	C
29	B1	2361	A
29	B1	2363	A
29	B1	2364	G
29	B1	2365	C
29	B1	2371	G
29	B1	2372	A
29	B1	2373	A
29	B1	2374	C
29	B1	2375	G
29	B1	2377	G
29	B1	2379	U
29	B1	2380	U
29	B1	2383	C
29	B1	2384	A
29	B1	2385	G
29	B1	2386	A
29	B1	2390	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2393	G
29	B1	2397	A
29	B1	2401	A
29	B1	2402	A
29	B1	2403	G
29	B1	2404	A
29	B1	2405	C
29	B1	2410	U
29	B1	2411	U
29	B1	2412	G
29	B1	2414	G
29	B1	2415	C
29	B1	2417	U
29	B1	2421	U
29	B1	2422	C
29	B1	2423	U
29	B1	2424	A
29	B1	2432	A
29	B1	2433	U
29	B1	2434	U
29	B1	2436	U
29	B1	2437	G
29	B1	2439	A
29	B1	2443	A
29	B1	2445	A
29	B1	2446	U
29	B1	2449	A
29	B1	2450	G
29	B1	2451	G
29	B1	2452	G
29	B1	2453	U
29	B1	2454	G
29	B1	2458	A
29	B1	2459	A
29	B1	2461	A
29	B1	2462	A
29	B1	2463	G
29	B1	2468	A
29	B1	2472	U
29	B1	2473	C
29	B1	2474	G
29	B1	2479	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2484	A
29	B1	2485	A
29	B1	2486	A
29	B1	2487	U
29	B1	2488	A
29	B1	2491	A
29	B1	2492	C
29	B1	2493	U
29	B1	2499	U
29	B1	2500	A
29	B1	2501	U
29	B1	2502	A
29	B1	2503	G
29	B1	2504	U
29	B1	2508	U
29	B1	2511	A
29	B1	2512	C
29	B1	2513	U
29	B1	2514	U
29	B1	2515	A
29	B1	2516	U
29	B1	2517	U
29	B1	2520	A
29	B1	2521	U
29	B1	2522	G
29	B1	2523	A
29	B1	2524	A
29	B1	2525	G
29	B1	2526	C
29	B1	2528	G
29	B1	2530	G
29	B1	2531	C
29	B1	2536	A
29	B1	2539	C
29	B1	2540	A
29	B1	2541	U
29	B1	2542	U
29	B1	2543	U
29	B1	2547	A
29	B1	2548	C
29	B1	2549	G
29	B1	2550	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2552	C
29	B1	2553	U
29	B1	2554	A
29	B1	2555	G
29	B1	2556	C
29	B1	2557	A
29	B1	2558	U
29	B1	2559	U
29	B1	2560	C
29	B1	2561	A
29	B1	2569	A
29	B1	2572	C
29	B1	2574	G
29	B1	2580	A
29	B1	2581	U
29	B1	2582	C
29	B1	2583	C
29	B1	2584	G
29	B1	2585	G
29	B1	2586	G
29	B1	2587	U
29	B1	2589	G
29	B1	2593	A
29	B1	2594	C
29	B1	2598	G
29	B1	2600	C
29	B1	2603	G
29	B1	2605	G
29	B1	2606	G
29	B1	2607	G
29	B1	2612	U
29	B1	2613	U
29	B1	2614	G
29	B1	2618	G
29	B1	2619	G
29	B1	2624	G
29	B1	2626	A
29	B1	2627	C
29	B1	2628	A
29	B1	2629	U
29	B1	2631	U
29	B1	2636	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2637	A
29	B1	2638	C
29	B1	2639	G
29	B1	2642	A
29	B1	2643	A
29	B1	2644	C
29	B1	2648	G
29	B1	2649	A
29	B1	2650	U
29	B1	2651	G
29	B1	2652	U
29	B1	2653	C
29	B1	2655	U
29	B1	2656	A
29	B1	2657	A
29	B1	2658	G
29	B1	2662	G
29	B1	2663	G
29	B1	2664	C
29	B1	2666	C
29	B1	2667	A
29	B1	2668	U
29	B1	2671	A
29	B1	2672	G
29	B1	2675	C
29	B1	2676	A
29	B1	2677	G
29	B1	2678	A
29	B1	2679	A
29	B1	2681	U
29	B1	2682	C
29	B1	2683	U
29	B1	2684	C
29	B1	2685	C
29	B1	2686	A
29	B1	2687	G
29	B1	2688	U
29	B1	2689	A
29	B1	2690	G
29	B1	2691	A
29	B1	2693	C
29	B1	2694	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2695	A
29	B1	2696	A
29	B1	2697	A
29	B1	2699	G
29	B1	2700	G
29	B1	2702	A
29	B1	2703	A
29	B1	2704	A
29	B1	2707	C
29	B1	2708	C
29	B1	2709	C
29	B1	2710	C
29	B1	2712	U
29	B1	2713	U
29	B1	2714	G
29	B1	2715	A
29	B1	2716	U
29	B1	2717	U
29	B1	2718	U
29	B1	2719	U
29	B1	2725	U
29	B1	2726	C
29	B1	2727	A
29	B1	2728	G
29	B1	2729	U
29	B1	2730	G
29	B1	2731	U
29	B1	2733	A
29	B1	2735	U
29	B1	2740	A
29	B1	2742	C
29	B1	2743	A
29	B1	2746	A
29	B1	2751	G
29	B1	2752	U
29	B1	2753	G
29	B1	2755	C
29	B1	2756	C
29	B1	2760	C
29	B1	2762	A
29	B1	2764	C
29	B1	2766	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2769	A
29	B1	2771	U
29	B1	2772	C
29	B1	2776	C
29	B1	2777	G
29	B1	2778	G
29	B1	2779	A
29	B1	2780	A
29	B1	2782	U
29	B1	2783	U
29	B1	2784	G
29	B1	2787	G
29	B1	2790	A
29	B1	2796	G
29	B1	2798	C
29	B1	2799	A
29	B1	2800	G
29	B1	2801	A
29	B1	2802	A
29	B1	2804	A
29	B1	2805	G
29	B1	2807	U
29	B1	2809	C
29	B1	2810	C
29	B1	2814	G
29	B1	2816	G
29	B1	2817	A
29	B1	2818	U
29	B1	2822	U
29	B1	2823	G
29	B1	2825	C
29	B1	2826	U
29	B1	2828	G
29	B1	2829	U
29	B1	2830	G
29	B1	2833	A
29	B1	2834	G
29	B1	2835	U
29	B1	2836	C
29	B1	2838	A
29	B1	2839	G
29	B1	2840	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2842	U
29	B1	2843	U
29	B1	2844	C
29	B1	2845	A
29	B1	2846	U
29	B1	2847	A
29	B1	2849	C
29	B1	2850	G
29	B1	2851	A
29	B1	2852	C
29	B1	2859	U
29	B1	2860	U
29	B1	2867	C
29	B1	2870	C
29	B1	2871	G
29	B1	2872	A
29	B1	2873	U
29	B1	2874	G
29	B1	2875	U
29	B1	2878	G
29	B1	2881	C
29	B1	2882	U
29	B1	2883	U
29	B1	2884	C
29	B1	2886	U
29	B1	2887	A
29	B1	2888	U
29	B1	2894	C
29	B1	2896	A
29	B1	2897	A
29	B1	2898	G
29	B1	2899	C
29	B1	2900	A
29	B1	2901	G
29	B1	2905	U
29	B1	2911	A
29	B1	2912	G
29	B1	2914	G
29	B1	2915	U
29	B1	2916	U
29	B1	2918	G
29	B1	2919	A

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
29	B1	2920	U
29	B1	2922	G
29	B1	2923	U
29	B1	2928	C
29	B1	2929	C
29	B1	2932	U
29	B1	2935	U
29	B1	2936	A
29	B1	2939	G
29	B1	2941	A
29	B1	2942	C
29	B1	2943	G
29	B1	2944	U
29	B1	2945	G
29	B1	2947	G
29	B1	2954	U
29	B1	2957	G
29	B1	2960	C
29	B1	2961	G
29	B1	2962	U
29	B1	2965	U
29	B1	2968	G
29	B1	2971	A
29	B1	2972	G
29	B1	2973	G
29	B1	2978	U
29	B1	2979	U
29	B1	2983	C
29	B1	2984	C
29	B1	2986	U
29	B1	2988	C
29	B1	2989	U
29	B1	2990	G
29	B1	2993	G
29	B1	2996	U
29	B1	2997	G
29	B1	2998	U
29	B1	2999	U
29	B1	3003	G
29	B1	3005	A
29	B1	3006	A
29	B1	3011	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	3012	A
29	B1	3013	U
29	B1	3014	U
29	B1	3019	U
29	B1	3020	U
29	B1	3023	U
29	B1	3024	A
29	B1	3025	C
29	B1	3028	G
29	B1	3030	G
29	B1	3031	G
29	B1	3033	A
29	B1	3039	C
29	B1	3040	A
29	B1	3041	U
29	B1	3045	G
29	B1	3046	A
29	B1	3048	A
29	B1	3049	A
29	B1	3052	G
29	B1	3054	U
29	B1	3056	U
29	B1	3057	U
29	B1	3058	U
29	B1	3059	G
29	B1	3060	C
29	B1	3061	G
29	B1	3064	U
29	B1	3066	U
29	B1	3071	U
29	B1	3072	C
29	B1	3074	G
29	B1	3075	G
29	B1	3077	A
29	B1	3078	U
29	B1	3079	U
29	B1	3080	G
29	B1	3090	U
29	B1	3091	A
29	B1	3092	C
29	B1	3093	C
29	B1	3094	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	3096	C
29	B1	3097	C
29	B1	3098	G
29	B1	3099	C
29	B1	3100	U
29	B1	3101	G
29	B1	3102	G
29	B1	3103	A
29	B1	3104	U
29	B1	3105	U
29	B1	3113	A
29	B1	3115	C
29	B1	3120	C
29	B1	3121	U
29	B1	3122	A
29	B1	3123	A
29	B1	3126	C
29	B1	3127	A
29	B1	3128	G
29	B1	3129	A
29	B1	3130	A
29	B1	3131	U
29	B1	3133	C
29	B1	3134	A
29	B1	3136	G
29	B1	3137	C
29	B1	3138	U
29	B1	3139	A
29	B1	3140	G
29	B1	3141	A
29	B1	3142	A
29	B1	3143	C
29	B1	3144	G
29	B1	3145	C
29	B1	3149	G
29	B1	3151	U
29	B1	3152	U
29	B1	3153	U
29	B1	3154	C
29	B1	3157	U
29	B1	3159	C
29	B1	3160	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	3161	C
29	B1	3162	C
29	B1	3163	A
29	B1	3164	C
29	B1	3166	C
29	B1	3169	U
29	B1	3170	A
29	B1	3171	U
29	B1	3172	A
29	B1	3173	G
29	B1	3174	A
29	B1	3175	U
29	B1	3176	G
29	B1	3177	G
29	B1	3178	A
29	B1	3179	U
29	B1	3180	A
29	B1	3181	C
29	B1	3184	A
29	B1	3185	U
29	B1	3187	A
29	B1	3191	G
29	B1	3195	U
29	B1	3196	U
29	B1	3198	U
29	B1	3199	G
29	B1	3200	G
29	B1	3201	C
29	B1	3202	G
29	B1	3203	U
29	B1	3204	C
29	B1	3205	G
29	B1	3206	C
29	B1	3207	U
29	B1	3208	G
29	B1	3209	A
29	B1	3210	A
29	B1	3211	C
29	B1	3212	C
29	B1	3214	U
29	B1	3215	A
29	B1	3216	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	3217	C
29	B1	3218	A
29	B1	3219	G
29	B1	3220	G
29	B1	3223	A
29	B1	3225	C
29	B1	3227	A
29	B1	3228	C
29	B1	3229	G
29	B1	3237	U
29	B1	3238	G
29	B1	3243	A
29	B1	3244	A
29	B1	3245	A
29	B1	3246	G
29	B1	3254	G
29	B1	3257	C
29	B1	3258	U
29	B1	3259	U
29	B1	3260	G
29	B1	3261	C
29	B1	3262	U
29	B1	3263	G
29	B1	3265	C
29	B1	3267	A
29	B1	3268	A
29	B1	3269	U
29	B1	3270	U
29	B1	3271	G
29	B1	3272	C
29	B1	3273	A
29	B1	3274	A
29	B1	3275	U
29	B1	3276	G
29	B1	3277	U
29	B1	3279	A
29	B1	3280	U
29	B1	3281	U
29	B1	3282	U
29	B1	3283	U
29	B1	3285	C
29	B1	3287	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
29	B1	3288	G
29	B1	3290	G
29	B1	3291	G
29	B1	3292	A
29	B1	3293	U
29	B1	3294	A
29	B1	3300	U
29	B1	3301	U
29	B1	3302	U
29	B1	3303	G
29	B1	3304	U
29	B1	3305	A
29	B1	3306	U
29	B1	3312	U
29	B1	3313	U
29	B1	3314	A
29	B1	3315	G
29	B1	3316	A
29	B1	3317	U
29	B1	3318	G
29	B1	3319	U
29	B1	3320	A
29	B1	3321	C
29	B1	3322	A
29	B1	3324	C
29	B1	3329	U
29	B1	3331	U
29	B1	3332	U
29	B1	3333	G
29	B1	3334	U
29	B1	3339	A
29	B1	3341	U
29	B1	3342	A
29	B1	3343	G
29	B1	3344	A
29	B1	3350	C
29	B1	3351	U
29	B1	3352	U
29	B1	3353	G
29	B1	3354	U
29	B1	3355	U
29	B1	3356	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	3357	U
29	B1	3358	U
29	B1	3360	C
29	B1	3361	G
29	B1	3362	A
29	B1	3363	U
29	B1	3369	G
29	B1	3370	A
29	B1	3371	G
29	B1	3372	A
29	B1	3375	A
29	B1	3376	A
29	B1	3377	G
29	B1	3378	C
29	B1	3379	C
29	B1	3381	U
29	B1	3382	U
29	B1	3383	G
29	B1	3384	U
29	B1	3387	U
29	B1	3389	U
29	B1	3390	G
29	B1	3392	U
29	B1	3394	U
29	B1	3395	G
29	B1	3396	U
30	B2	2	G
30	B2	3	U
30	B2	5	G
30	B2	6	C
30	B2	9	C
30	B2	10	C
30	B2	11	A
30	B2	12	U
30	B2	13	A
30	B2	14	U
30	B2	15	C
30	B2	19	C
30	B2	22	A
30	B2	27	A
30	B2	29	C
30	B2	30	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
30	B2	31	U
30	B2	33	U
30	B2	34	C
30	B2	35	C
30	B2	36	C
30	B2	38	U
30	B2	39	C
30	B2	40	C
30	B2	41	G
30	B2	42	A
30	B2	43	U
30	B2	44	C
30	B2	47	C
30	B2	48	U
30	B2	49	G
30	B2	50	U
30	B2	51	A
30	B2	54	U
30	B2	55	A
30	B2	56	A
30	B2	58	C
30	B2	61	G
30	B2	63	A
30	B2	64	A
30	B2	65	G
30	B2	66	A
30	B2	68	C
30	B2	70	U
30	B2	75	G
30	B2	76	A
30	B2	78	U
30	B2	79	A
30	B2	81	U
30	B2	83	U
30	B2	84	A
30	B2	87	G
30	B2	89	G
30	B2	92	A
30	B2	93	C
30	B2	96	U
30	B2	97	A
30	B2	98	C

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
30	B2	99	G
30	B2	102	A
30	B2	103	A
30	B2	105	C
30	B2	107	C
30	B2	109	G
30	B2	110	G
30	B2	112	G
30	B2	115	G
30	B2	118	A
30	B2	120	C
30	B2	121	U
31	B3	2	A
31	B3	6	U
31	B3	10	A
31	B3	12	A
31	B3	14	C
31	B3	15	G
31	B3	23	U
31	B3	24	G
31	B3	25	G
31	B3	30	C
31	B3	34	U
31	B3	38	U
31	B3	40	A
31	B3	41	A
31	B3	45	C
31	B3	49	G
31	B3	50	C
31	B3	51	G
31	B3	55	U
31	B3	59	A
31	B3	60	U
31	B3	61	A
31	B3	62	C
31	B3	63	G
31	B3	65	A
31	B3	67	U
31	B3	68	G
31	B3	70	G
31	B3	71	A
31	B3	72	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	B3	73	U
31	B3	75	G
31	B3	76	C
31	B3	77	A
31	B3	78	G
31	B3	80	A
31	B3	82	U
31	B3	83	C
31	B3	85	G
31	B3	86	U
31	B3	87	G
31	B3	88	A
31	B3	89	A
31	B3	90	U
31	B3	93	U
31	B3	94	C
31	B3	95	G
31	B3	96	A
31	B3	97	A
31	B3	99	C
31	B3	101	U
31	B3	104	A
31	B3	105	A
31	B3	106	C
31	B3	107	G
31	B3	108	C
31	B3	110	C
31	B3	111	A
31	B3	112	U
31	B3	113	U
31	B3	114	G
31	B3	117	C
31	B3	124	G
31	B3	125	U
31	B3	126	A
31	B3	127	U
31	B3	128	U
31	B3	129	C
31	B3	130	C
31	B3	132	G
31	B3	137	C
31	B3	138	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
31	B3	141	C
31	B3	145	U
31	B3	147	U
31	B3	149	A
31	B3	151	C
31	B3	152	G
31	B3	157	U
31	B3	158	U
1	C1	2	A
1	C1	3	U
1	C1	4	C
1	C1	7	G
1	C1	8	U
1	C1	13	C
1	C1	17	C
1	C1	20	G
1	C1	21	U
1	C1	22	A
1	C1	24	U
1	C1	25	C
1	C1	26	A
1	C1	27	U
1	C1	31	C
1	C1	34	G
1	C1	35	U
1	C1	40	A
1	C1	41	A
1	C1	42	G
1	C1	45	U
1	C1	46	A
1	C1	47	A
1	C1	48	G
1	C1	50	C
1	C1	51	A
1	C1	54	C
1	C1	56	U
1	C1	57	G
1	C1	58	U
1	C1	59	C
1	C1	60	U
1	C1	61	A
1	C1	62	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	63	G
1	C1	64	U
1	C1	65	A
1	C1	66	U
1	C1	67	A
1	C1	68	A
1	C1	69	G
1	C1	70	C
1	C1	71	A
1	C1	72	A
1	C1	75	U
1	C1	76	A
1	C1	77	U
1	C1	78	A
1	C1	79	C
1	C1	80	A
1	C1	81	G
1	C1	82	U
1	C1	83	G
1	C1	86	A
1	C1	88	U
1	C1	95	G
1	C1	99	C
1	C1	102	U
1	C1	104	A
1	C1	105	A
1	C1	106	U
1	C1	111	U
1	C1	112	A
1	C1	113	U
1	C1	114	C
1	C1	115	G
1	C1	117	U
1	C1	119	A
1	C1	120	U
1	C1	121	U
1	C1	122	U
1	C1	123	G
1	C1	124	A
1	C1	125	U
1	C1	126	A
1	C1	128	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	129	U
1	C1	130	C
1	C1	131	C
1	C1	132	U
1	C1	133	U
1	C1	134	U
1	C1	135	A
1	C1	136	C
1	C1	137	U
1	C1	138	A
1	C1	139	C
1	C1	140	A
1	C1	141	U
1	C1	144	U
1	C1	145	A
1	C1	146	U
1	C1	147	A
1	C1	148	A
1	C1	149	C
1	C1	150	U
1	C1	151	G
1	C1	154	G
1	C1	156	A
1	C1	158	U
1	C1	159	U
1	C1	160	C
1	C1	161	U
1	C1	162	A
1	C1	166	C
1	C1	167	U
1	C1	168	A
1	C1	169	A
1	C1	170	U
1	C1	171	A
1	C1	172	C
1	C1	174	U
1	C1	176	C
1	C1	177	U
1	C1	178	U
1	C1	179	A
1	C1	180	A
1	C1	181	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	184	C
1	C1	187	G
1	C1	190	C
1	C1	191	C
1	C1	192	U
1	C1	193	U
1	C1	194	U
1	C1	195	G
1	C1	196	G
1	C1	197	A
1	C1	198	A
1	C1	199	G
1	C1	200	A
1	C1	201	G
1	C1	204	G
1	C1	208	U
1	C1	209	U
1	C1	211	U
1	C1	212	U
1	C1	213	A
1	C1	215	A
1	C1	218	A
1	C1	219	A
1	C1	220	A
1	C1	224	C
1	C1	226	A
1	C1	227	U
1	C1	228	G
1	C1	229	U
1	C1	233	C
1	C1	234	G
1	C1	238	U
1	C1	241	U
1	C1	242	U
1	C1	243	G
1	C1	244	A
1	C1	245	U
1	C1	246	G
1	C1	249	U
1	C1	250	C
1	C1	251	A
1	C1	252	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	253	A
1	C1	254	A
1	C1	255	U
1	C1	256	A
1	C1	257	A
1	C1	259	U
1	C1	260	U
1	C1	261	U
1	C1	262	U
1	C1	263	C
1	C1	264	G
1	C1	265	A
1	C1	267	U
1	C1	270	C
1	C1	271	A
1	C1	272	U
1	C1	273	G
1	C1	274	G
1	C1	276	C
1	C1	277	U
1	C1	278	U
1	C1	280	U
1	C1	282	C
1	C1	283	U
1	C1	284	G
1	C1	285	G
1	C1	289	U
1	C1	295	A
1	C1	296	U
1	C1	297	U
1	C1	298	C
1	C1	299	A
1	C1	302	U
1	C1	309	C
1	C1	310	C
1	C1	311	U
1	C1	312	A
1	C1	314	C
1	C1	316	A
1	C1	320	U
1	C1	321	C
1	C1	322	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	323	A
1	C1	324	U
1	C1	327	U
1	C1	330	G
1	C1	331	A
1	C1	332	U
1	C1	333	A
1	C1	334	G
1	C1	335	U
1	C1	337	G
1	C1	338	C
1	C1	340	U
1	C1	341	A
1	C1	350	U
1	C1	351	C
1	C1	352	A
1	C1	354	C
1	C1	357	G
1	C1	359	A
1	C1	360	A
1	C1	361	C
1	C1	365	G
1	C1	366	A
1	C1	368	U
1	C1	369	A
1	C1	370	A
1	C1	373	G
1	C1	374	U
1	C1	375	U
1	C1	376	C
1	C1	378	A
1	C1	379	U
1	C1	381	C
1	C1	382	C
1	C1	383	G
1	C1	385	A
1	C1	387	A
1	C1	390	G
1	C1	393	C
1	C1	394	C
1	C1	395	U
1	C1	396	G

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	397	A
1	C1	399	A
1	C1	400	A
1	C1	401	A
1	C1	402	C
1	C1	403	G
1	C1	404	G
1	C1	406	U
1	C1	411	C
1	C1	415	C
1	C1	416	A
1	C1	417	A
1	C1	418	G
1	C1	419	G
1	C1	421	A
1	C1	424	C
1	C1	425	A
1	C1	426	G
1	C1	427	C
1	C1	428	A
1	C1	434	G
1	C1	436	A
1	C1	437	A
1	C1	438	A
1	C1	439	U
1	C1	440	U
1	C1	441	A
1	C1	444	C
1	C1	445	A
1	C1	446	A
1	C1	447	U
1	C1	448	C
1	C1	449	C
1	C1	451	A
1	C1	452	A
1	C1	453	U
1	C1	454	U
1	C1	455	C
1	C1	458	G
1	C1	459	G
1	C1	462	G
1	C1	464	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	467	G
1	C1	468	A
1	C1	469	C
1	C1	470	A
1	C1	475	A
1	C1	477	A
1	C1	480	G
1	C1	482	U
1	C1	485	A
1	C1	486	G
1	C1	487	G
1	C1	488	G
1	C1	489	C
1	C1	490	C
1	C1	493	U
1	C1	494	U
1	C1	495	C
1	C1	496	G
1	C1	498	G
1	C1	500	C
1	C1	504	U
1	C1	505	A
1	C1	506	A
1	C1	510	G
1	C1	511	A
1	C1	512	A
1	C1	513	U
1	C1	514	G
1	C1	515	A
1	C1	516	G
1	C1	517	U
1	C1	519	C
1	C1	522	U
1	C1	523	G
1	C1	524	U
1	C1	526	A
1	C1	527	A
1	C1	528	U
1	C1	529	A
1	C1	530	C
1	C1	531	C
1	C1	535	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	537	G
1	C1	538	A
1	C1	539	G
1	C1	540	G
1	C1	541	A
1	C1	542	A
1	C1	543	C
1	C1	544	A
1	C1	545	A
1	C1	546	U
1	C1	548	G
1	C1	550	A
1	C1	551	G
1	C1	554	C
1	C1	555	A
1	C1	556	A
1	C1	557	G
1	C1	558	U
1	C1	560	U
1	C1	561	G
1	C1	563	U
1	C1	564	G
1	C1	565	C
1	C1	568	G
1	C1	570	A
1	C1	572	C
1	C1	574	G
1	C1	578	U
1	C1	579	A
1	C1	580	A
1	C1	585	A
1	C1	594	A
1	C1	595	G
1	C1	596	C
1	C1	599	A
1	C1	601	A
1	C1	602	U
1	C1	605	A
1	C1	607	G
1	C1	608	U
1	C1	609	U
1	C1	610	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	611	U
1	C1	612	U
1	C1	614	C
1	C1	615	A
1	C1	616	G
1	C1	619	A
1	C1	620	A
1	C1	622	A
1	C1	623	A
1	C1	624	G
1	C1	626	U
1	C1	630	A
1	C1	633	U
1	C1	638	U
1	C1	639	U
1	C1	640	U
1	C1	646	C
1	C1	647	G
1	C1	649	U
1	C1	650	U
1	C1	653	C
1	C1	656	G
1	C1	659	C
1	C1	660	G
1	C1	662	U
1	C1	663	U
1	C1	665	U
1	C1	666	U
1	C1	667	U
1	C1	681	U
1	C1	682	C
1	C1	683	C
1	C1	685	A
1	C1	686	C
1	C1	691	C
1	C1	692	C
1	C1	693	U
1	C1	694	U
1	C1	695	U
1	C1	696	C
1	C1	697	C
1	C1	698	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	699	U
1	C1	702	G
1	C1	703	G
1	C1	706	A
1	C1	707	A
1	C1	708	C
1	C1	710	U
1	C1	714	G
1	C1	715	U
1	C1	718	U
1	C1	719	U
1	C1	720	G
1	C1	721	U
1	C1	722	G
1	C1	723	G
1	C1	729	G
1	C1	730	G
1	C1	731	C
1	C1	733	A
1	C1	736	C
1	C1	739	G
1	C1	741	C
1	C1	742	U
1	C1	743	U
1	C1	744	U
1	C1	750	U
1	C1	751	G
1	C1	754	A
1	C1	756	A
1	C1	765	G
1	C1	766	U
1	C1	767	U
1	C1	774	A
1	C1	775	G
1	C1	778	G
1	C1	779	U
1	C1	780	A
1	C1	781	U
1	C1	782	U
1	C1	783	G
1	C1	787	G
1	C1	789	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	790	U
1	C1	793	A
1	C1	794	U
1	C1	803	A
1	C1	808	U
1	C1	811	A
1	C1	812	A
1	C1	813	U
1	C1	814	A
1	C1	815	G
1	C1	816	G
1	C1	818	C
1	C1	819	G
1	C1	820	U
1	C1	821	U
1	C1	822	U
1	C1	823	G
1	C1	824	G
1	C1	825	U
1	C1	826	U
1	C1	828	U
1	C1	829	A
1	C1	830	U
1	C1	831	U
1	C1	832	U
1	C1	834	G
1	C1	839	U
1	C1	840	U
1	C1	841	U
1	C1	842	C
1	C1	844	A
1	C1	847	A
1	C1	848	C
1	C1	850	A
1	C1	856	A
1	C1	857	U
1	C1	858	G
1	C1	860	U
1	C1	861	U
1	C1	862	A
1	C1	863	A
1	C1	864	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	865	A
1	C1	872	G
1	C1	873	U
1	C1	876	G
1	C1	880	C
1	C1	881	A
1	C1	883	C
1	C1	886	U
1	C1	888	U
1	C1	891	A
1	C1	893	U
1	C1	894	U
1	C1	896	U
1	C1	897	C
1	C1	899	G
1	C1	901	G
1	C1	902	G
1	C1	903	U
1	C1	904	G
1	C1	905	A
1	C1	906	A
1	C1	909	U
1	C1	910	C
1	C1	911	U
1	C1	912	U
1	C1	913	G
1	C1	914	G
1	C1	915	A
1	C1	916	U
1	C1	920	U
1	C1	922	G
1	C1	923	A
1	C1	927	C
1	C1	929	A
1	C1	932	U
1	C1	933	A
1	C1	934	C
1	C1	938	G
1	C1	939	A
1	C1	942	G
1	C1	943	C
1	C1	944	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	952	A
1	C1	959	U
1	C1	960	U
1	C1	961	U
1	C1	964	U
1	C1	965	U
1	C1	966	A
1	C1	967	A
1	C1	973	A
1	C1	975	C
1	C1	976	G
1	C1	977	A
1	C1	978	A
1	C1	981	U
1	C1	987	G
1	C1	988	A
1	C1	992	A
1	C1	993	A
1	C1	995	A
1	C1	996	U
1	C1	998	A
1	C1	1000	C
1	C1	1003	A
1	C1	1004	U
1	C1	1005	A
1	C1	1007	C
1	C1	1008	G
1	C1	1010	C
1	C1	1019	A
1	C1	1027	A
1	C1	1028	C
1	C1	1029	U
1	C1	1030	A
1	C1	1032	G
1	C1	1036	A
1	C1	1039	A
1	C1	1040	G
1	C1	1044	U
1	C1	1045	C
1	C1	1046	G
1	C1	1048	G
1	C1	1049	U

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1057	U
1	C1	1058	U
1	C1	1059	U
1	C1	1060	U
1	C1	1066	C
1	C1	1071	U
1	C1	1072	C
1	C1	1073	G
1	C1	1074	G
1	C1	1075	C
1	C1	1077	C
1	C1	1079	U
1	C1	1080	U
1	C1	1082	C
1	C1	1087	A
1	C1	1090	C
1	C1	1091	A
1	C1	1092	A
1	C1	1093	A
1	C1	1094	G
1	C1	1095	U
1	C1	1096	C
1	C1	1097	U
1	C1	1098	U
1	C1	1099	U
1	C1	1100	G
1	C1	1101	G
1	C1	1103	U
1	C1	1107	G
1	C1	1108	G
1	C1	1109	G
1	C1	1110	G
1	C1	1111	G
1	C1	1112	G
1	C1	1113	A
1	C1	1114	G
1	C1	1115	U
1	C1	1119	G
1	C1	1124	A
1	C1	1126	G
1	C1	1129	U
1	C1	1136	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1137	A
1	C1	1138	A
1	C1	1139	A
1	C1	1140	G
1	C1	1141	G
1	C1	1142	A
1	C1	1143	A
1	C1	1145	U
1	C1	1146	G
1	C1	1147	A
1	C1	1149	G
1	C1	1150	G
1	C1	1151	A
1	C1	1152	A
1	C1	1153	G
1	C1	1154	G
1	C1	1158	C
1	C1	1160	A
1	C1	1161	C
1	C1	1162	C
1	C1	1166	A
1	C1	1167	G
1	C1	1168	U
1	C1	1178	G
1	C1	1179	G
1	C1	1185	U
1	C1	1186	U
1	C1	1189	A
1	C1	1190	C
1	C1	1191	U
1	C1	1193	A
1	C1	1194	A
1	C1	1196	A
1	C1	1197	C
1	C1	1198	G
1	C1	1199	G
1	C1	1200	G
1	C1	1201	G
1	C1	1202	A
1	C1	1203	A
1	C1	1204	A
1	C1	1205	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1206	U
1	C1	1207	C
1	C1	1208	A
1	C1	1209	C
1	C1	1211	A
1	C1	1217	A
1	C1	1218	G
1	C1	1219	A
1	C1	1220	C
1	C1	1222	C
1	C1	1225	U
1	C1	1228	G
1	C1	1229	G
1	C1	1230	A
1	C1	1231	U
1	C1	1232	U
1	C1	1234	A
1	C1	1235	C
1	C1	1238	A
1	C1	1239	U
1	C1	1240	U
1	C1	1242	A
1	C1	1243	G
1	C1	1244	A
1	C1	1245	G
1	C1	1246	C
1	C1	1248	C
1	C1	1254	U
1	C1	1255	G
1	C1	1256	A
1	C1	1257	U
1	C1	1258	U
1	C1	1259	U
1	C1	1260	U
1	C1	1264	G
1	C1	1266	U
1	C1	1268	G
1	C1	1270	G
1	C1	1273	G
1	C1	1274	C
1	C1	1275	A
1	C1	1276	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1280	C
1	C1	1283	U
1	C1	1284	C
1	C1	1286	U
1	C1	1287	A
1	C1	1288	G
1	C1	1290	U
1	C1	1297	G
1	C1	1299	G
1	C1	1302	U
1	C1	1303	U
1	C1	1306	C
1	C1	1310	U
1	C1	1311	U
1	C1	1312	A
1	C1	1314	U
1	C1	1315	U
1	C1	1316	G
1	C1	1321	A
1	C1	1324	G
1	C1	1325	A
1	C1	1326	A
1	C1	1331	A
1	C1	1332	C
1	C1	1333	C
1	C1	1335	U
1	C1	1336	A
1	C1	1337	A
1	C1	1340	U
1	C1	1341	A
1	C1	1342	C
1	C1	1345	A
1	C1	1346	A
1	C1	1347	U
1	C1	1348	A
1	C1	1349	G
1	C1	1350	U
1	C1	1351	G
1	C1	1353	U
1	C1	1354	G
1	C1	1355	C
1	C1	1358	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1359	C
1	C1	1360	A
1	C1	1361	U
1	C1	1362	U
1	C1	1363	U
1	C1	1364	G
1	C1	1365	C
1	C1	1366	U
1	C1	1367	G
1	C1	1368	G
1	C1	1369	U
1	C1	1371	A
1	C1	1373	C
1	C1	1374	C
1	C1	1378	U
1	C1	1379	C
1	C1	1380	U
1	C1	1383	G
1	C1	1384	A
1	C1	1388	A
1	C1	1390	U
1	C1	1391	A
1	C1	1392	U
1	C1	1397	U
1	C1	1398	U
1	C1	1399	C
1	C1	1400	A
1	C1	1401	A
1	C1	1402	G
1	C1	1407	U
1	C1	1408	G
1	C1	1409	G
1	C1	1410	A
1	C1	1412	G
1	C1	1413	U
1	C1	1414	U
1	C1	1415	U
1	C1	1418	G
1	C1	1419	G
1	C1	1420	C
1	C1	1422	A
1	C1	1427	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1428	G
1	C1	1429	G
1	C1	1431	C
1	C1	1432	U
1	C1	1433	G
1	C1	1434	U
1	C1	1435	G
1	C1	1436	A
1	C1	1438	G
1	C1	1443	U
1	C1	1445	G
1	C1	1446	A
1	C1	1447	C
1	C1	1448	G
1	C1	1449	U
1	C1	1450	U
1	C1	1454	G
1	C1	1455	G
1	C1	1456	C
1	C1	1458	G
1	C1	1459	C
1	C1	1460	A
1	C1	1466	G
1	C1	1467	C
1	C1	1468	U
1	C1	1469	A
1	C1	1471	A
1	C1	1472	C
1	C1	1473	U
1	C1	1474	G
1	C1	1477	G
1	C1	1478	G
1	C1	1479	A
1	C1	1481	C
1	C1	1482	C
1	C1	1483	A
1	C1	1484	G
1	C1	1485	C
1	C1	1486	G
1	C1	1490	C
1	C1	1491	U
1	C1	1492	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1493	A
1	C1	1494	C
1	C1	1499	G
1	C1	1503	A
1	C1	1505	A
1	C1	1506	G
1	C1	1509	C
1	C1	1510	U
1	C1	1514	U
1	C1	1515	A
1	C1	1516	A
1	C1	1517	U
1	C1	1519	U
1	C1	1521	G
1	C1	1522	U
1	C1	1523	G
1	C1	1524	A
1	C1	1533	C
1	C1	1534	G
1	C1	1535	U
1	C1	1536	G
1	C1	1538	U
1	C1	1539	G
1	C1	1540	G
1	C1	1541	G
1	C1	1542	G
1	C1	1545	A
1	C1	1547	A
1	C1	1548	G
1	C1	1550	A
1	C1	1551	U
1	C1	1553	G
1	C1	1554	U
1	C1	1555	A
1	C1	1556	A
1	C1	1557	U
1	C1	1558	U
1	C1	1559	A
1	C1	1560	U
1	C1	1568	C
1	C1	1570	A
1	C1	1572	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1573	A
1	C1	1574	G
1	C1	1575	G
1	C1	1576	A
1	C1	1581	C
1	C1	1583	A
1	C1	1584	G
1	C1	1587	A
1	C1	1590	G
1	C1	1591	C
1	C1	1592	A
1	C1	1598	U
1	C1	1599	C
1	C1	1600	A
1	C1	1601	G
1	C1	1602	C
1	C1	1605	G
1	C1	1607	G
1	C1	1609	U
1	C1	1611	A
1	C1	1613	U
1	C1	1614	A
1	C1	1615	C
1	C1	1616	G
1	C1	1618	C
1	C1	1623	C
1	C1	1624	C
1	C1	1625	C
1	C1	1627	U
1	C1	1628	U
1	C1	1630	U
1	C1	1631	A
1	C1	1632	C
1	C1	1633	A
1	C1	1634	C
1	C1	1635	A
1	C1	1636	C
1	C1	1637	C
1	C1	1638	G
1	C1	1639	C
1	C1	1644	C
1	C1	1645	G

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1646	C
1	C1	1650	U
1	C1	1656	U
1	C1	1657	U
1	C1	1658	G
1	C1	1659	A
1	C1	1664	C
1	C1	1665	U
1	C1	1667	A
1	C1	1668	G
1	C1	1673	G
1	C1	1674	C
1	C1	1675	C
1	C1	1676	U
1	C1	1677	C
1	C1	1678	A
1	C1	1680	G
1	C1	1681	A
1	C1	1682	U
1	C1	1683	C
1	C1	1684	U
1	C1	1685	G
1	C1	1688	U
1	C1	1689	A
1	C1	1691	A
1	C1	1692	G
1	C1	1693	A
1	C1	1695	G
1	C1	1696	G
1	C1	1698	G
1	C1	1700	C
1	C1	1701	A
1	C1	1706	C
1	C1	1707	A
1	C1	1710	U
1	C1	1711	C
1	C1	1716	C
1	C1	1719	A
1	C1	1720	G
1	C1	1722	A
1	C1	1728	A
1	C1	1731	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1739	C
1	C1	1740	A
1	C1	1744	A
1	C1	1746	A
1	C1	1748	G
1	C1	1754	A
1	C1	1755	A
1	C1	1756	A
1	C1	1757	G
1	C1	1760	G
1	C1	1762	A
1	C1	1764	C
1	C1	1766	A
1	C1	1767	G
1	C1	1768	G
1	C1	1769	U
1	C1	1770	U
1	C1	1772	C
1	C1	1773	C
1	C1	1774	G
1	C1	1777	G
1	C1	1779	U
1	C1	1780	G
1	C1	1782	A
1	C1	1783	C
1	C1	1788	G
1	C1	1792	G
1	C1	1793	G
1	C1	1794	A
1	C1	1795	U
1	C1	1797	A
1	C1	1798	U
29	D1	6	A
29	D1	9	U
29	D1	10	C
29	D1	12	A
29	D1	14	U
29	D1	15	C
29	D1	16	A
29	D1	20	A
29	D1	21	G
29	D1	22	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	25	U
29	D1	32	U
29	D1	35	A
29	D1	38	U
29	D1	40	A
29	D1	43	A
29	D1	44	U
29	D1	47	C
29	D1	50	U
29	D1	53	G
29	D1	56	G
29	D1	58	G
29	D1	59	G
29	D1	60	A
29	D1	62	A
29	D1	65	A
29	D1	66	A
29	D1	68	C
29	D1	70	A
29	D1	71	A
29	D1	72	C
29	D1	73	C
29	D1	74	G
29	D1	76	G
29	D1	77	A
29	D1	81	C
29	D1	83	U
29	D1	85	A
29	D1	87	U
29	D1	88	A
29	D1	89	A
29	D1	92	G
29	D1	93	C
29	D1	94	G
29	D1	96	G
29	D1	97	U
29	D1	98	G
29	D1	99	A
29	D1	102	C
29	D1	103	G
29	D1	105	C
29	D1	106	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	108	A
29	D1	109	A
29	D1	110	G
29	D1	113	C
29	D1	114	A
29	D1	117	U
29	D1	118	U
29	D1	119	U
29	D1	120	G
29	D1	121	A
29	D1	122	A
29	D1	125	C
29	D1	126	U
29	D1	127	G
29	D1	131	C
29	D1	133	U
29	D1	134	U
29	D1	136	G
29	D1	138	U
29	D1	141	C
29	D1	144	A
29	D1	145	G
29	D1	146	U
29	D1	147	U
29	D1	148	G
29	D1	149	U
29	D1	150	A
29	D1	152	U
29	D1	155	G
29	D1	156	G
29	D1	157	A
29	D1	158	G
29	D1	159	A
29	D1	160	G
29	D1	161	G
29	D1	164	A
29	D1	167	U
29	D1	169	U
29	D1	170	G
29	D1	171	G
29	D1	172	G
29	D1	173	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	175	C
29	D1	176	G
29	D1	177	U
29	D1	178	U
29	D1	179	C
29	D1	182	U
29	D1	187	A
29	D1	188	U
29	D1	190	U
29	D1	191	U
29	D1	196	G
29	D1	197	G
29	D1	199	A
29	D1	200	C
29	D1	201	A
29	D1	204	A
29	D1	205	C
29	D1	209	A
29	D1	210	U
29	D1	211	A
29	D1	214	G
29	D1	215	G
29	D1	218	G
29	D1	219	A
29	D1	220	G
29	D1	221	A
29	D1	223	U
29	D1	224	C
29	D1	225	C
29	D1	227	G
29	D1	230	U
29	D1	231	G
29	D1	237	G
29	D1	238	A
29	D1	239	G
29	D1	240	U
29	D1	241	G
29	D1	242	C
29	D1	244	G
29	D1	245	U
29	D1	246	U
29	D1	247	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	248	U
29	D1	249	U
29	D1	250	U
29	D1	251	G
29	D1	252	U
29	D1	253	A
29	D1	255	A
29	D1	256	G
29	D1	257	U
29	D1	258	G
29	D1	259	C
29	D1	260	C
29	D1	261	U
29	D1	262	U
29	D1	263	C
29	D1	264	G
29	D1	265	A
29	D1	266	A
29	D1	267	G
29	D1	269	G
29	D1	277	G
29	D1	282	G
29	D1	283	G
29	D1	284	A
29	D1	285	A
29	D1	288	C
29	D1	289	A
29	D1	290	G
29	D1	292	U
29	D1	293	C
29	D1	295	A
29	D1	297	G
29	D1	298	U
29	D1	301	G
29	D1	304	G
29	D1	305	U
29	D1	306	A
29	D1	307	A
29	D1	311	C
29	D1	315	C
29	D1	316	U
29	D1	317	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	318	A
29	D1	319	A
29	D1	323	A
29	D1	324	A
29	D1	325	A
29	D1	326	U
29	D1	327	A
29	D1	328	U
29	D1	329	U
29	D1	330	G
29	D1	331	G
29	D1	332	C
29	D1	333	G
29	D1	335	G
29	D1	338	A
29	D1	339	C
29	D1	340	C
29	D1	341	G
29	D1	342	A
29	D1	345	G
29	D1	346	C
29	D1	349	A
29	D1	350	C
29	D1	351	A
29	D1	352	A
29	D1	354	U
29	D1	362	U
29	D1	364	G
29	D1	368	G
29	D1	370	U
29	D1	371	G
29	D1	374	A
29	D1	375	A
29	D1	376	G
29	D1	377	A
29	D1	378	A
29	D1	379	C
29	D1	380	U
29	D1	381	U
29	D1	382	U
29	D1	383	G
29	D1	384	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	385	A
29	D1	386	A
29	D1	387	A
29	D1	390	G
29	D1	391	A
29	D1	392	G
29	D1	395	A
29	D1	396	A
29	D1	397	A
29	D1	398	A
29	D1	399	A
29	D1	400	G
29	D1	401	U
29	D1	402	A
29	D1	403	C
29	D1	404	G
29	D1	419	G
29	D1	421	G
29	D1	422	A
29	D1	423	A
29	D1	424	G
29	D1	425	G
29	D1	428	A
29	D1	429	U
29	D1	431	U
29	D1	432	G
29	D1	439	C
29	D1	493	G
29	D1	495	G
29	D1	499	G
29	D1	500	C
29	D1	502	U
29	D1	504	A
29	D1	509	U
29	D1	511	G
29	D1	514	G
29	D1	515	C
29	D1	516	A
29	D1	517	G
29	D1	518	G
29	D1	519	A
29	D1	520	U

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	521	A
29	D1	523	A
29	D1	524	U
29	D1	525	C
29	D1	528	U
29	D1	529	A
29	D1	533	A
29	D1	536	U
29	D1	537	A
29	D1	538	G
29	D1	539	C
29	D1	540	U
29	D1	541	U
29	D1	544	C
29	D1	546	C
29	D1	547	G
29	D1	548	G
29	D1	549	U
29	D1	550	A
29	D1	556	U
29	D1	559	A
29	D1	560	G
29	D1	561	C
29	D1	562	C
29	D1	563	U
29	D1	564	G
29	D1	565	U
29	D1	566	G
29	D1	571	U
29	D1	574	U
29	D1	575	G
29	D1	576	C
29	D1	577	C
29	D1	578	A
29	D1	579	G
29	D1	580	C
29	D1	586	C
29	D1	588	G
29	D1	590	G
29	D1	591	G
29	D1	592	A
29	D1	593	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	594	U
29	D1	595	G
29	D1	597	G
29	D1	602	A
29	D1	603	A
29	D1	604	G
29	D1	605	U
29	D1	606	C
29	D1	607	A
29	D1	608	A
29	D1	609	G
29	D1	610	G
29	D1	611	A
29	D1	612	U
29	D1	619	A
29	D1	620	U
29	D1	621	A
29	D1	622	A
29	D1	624	G
29	D1	625	G
29	D1	626	U
29	D1	628	A
29	D1	630	A
29	D1	632	G
29	D1	636	C
29	D1	637	C
29	D1	641	C
29	D1	642	U
29	D1	645	A
29	D1	647	A
29	D1	648	C
29	D1	649	A
29	D1	650	C
29	D1	651	G
29	D1	656	A
29	D1	657	A
29	D1	661	G
29	D1	666	A
29	D1	667	C
29	D1	669	U
29	D1	674	G
29	D1	675	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	677	A
29	D1	679	U
29	D1	680	G
29	D1	681	U
29	D1	682	U
29	D1	683	U
29	D1	691	A
29	D1	692	A
29	D1	694	C
29	D1	697	A
29	D1	699	A
29	D1	705	A
29	D1	706	A
29	D1	712	G
29	D1	714	G
29	D1	715	A
29	D1	716	A
29	D1	717	C
29	D1	718	G
29	D1	719	U
29	D1	720	A
29	D1	721	G
29	D1	722	G
29	D1	723	U
29	D1	724	U
29	D1	725	G
29	D1	726	G
29	D1	727	G
29	D1	728	G
29	D1	731	U
29	D1	732	C
29	D1	733	G
29	D1	734	C
29	D1	735	A
29	D1	736	A
29	D1	738	A
29	D1	741	U
29	D1	743	C
29	D1	744	A
29	D1	745	C
29	D1	746	A
29	D1	747	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	748	U
29	D1	749	C
29	D1	751	A
29	D1	752	C
29	D1	753	C
29	D1	756	U
29	D1	757	C
29	D1	758	C
29	D1	759	U
29	D1	761	A
29	D1	762	U
29	D1	764	U
29	D1	765	C
29	D1	766	U
29	D1	767	U
29	D1	768	C
29	D1	769	G
29	D1	770	G
29	D1	771	A
29	D1	772	U
29	D1	776	U
29	D1	777	U
29	D1	778	U
29	D1	779	G
29	D1	781	G
29	D1	782	U
29	D1	784	A
29	D1	785	G
29	D1	786	A
29	D1	787	G
29	D1	788	C
29	D1	791	A
29	D1	794	U
29	D1	799	G
29	D1	802	C
29	D1	803	C
29	D1	805	G
29	D1	806	A
29	D1	807	A
29	D1	808	A
29	D1	809	G
29	D1	815	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	817	A
29	D1	822	G
29	D1	825	U
29	D1	826	G
29	D1	828	A
29	D1	830	A
29	D1	831	G
29	D1	834	U
29	D1	835	G
29	D1	836	A
29	D1	837	A
29	D1	838	G
29	D1	841	A
29	D1	845	G
29	D1	846	A
29	D1	847	A
29	D1	857	G
29	D1	858	A
29	D1	859	G
29	D1	860	G
29	D1	861	C
29	D1	870	G
29	D1	871	U
29	D1	874	U
29	D1	875	G
29	D1	879	U
29	D1	880	G
29	D1	882	A
29	D1	884	A
29	D1	886	C
29	D1	887	G
29	D1	888	A
29	D1	894	G
29	D1	895	A
29	D1	896	A
29	D1	897	U
29	D1	901	G
29	D1	903	U
29	D1	904	A
29	D1	907	G
29	D1	908	G
29	D1	909	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	911	C
29	D1	913	A
29	D1	914	A
29	D1	915	A
29	D1	916	G
29	D1	917	A
29	D1	920	A
29	D1	921	A
29	D1	922	U
29	D1	923	C
29	D1	924	G
29	D1	933	A
29	D1	934	G
29	D1	935	U
29	D1	937	G
29	D1	939	U
29	D1	943	U
29	D1	944	C
29	D1	945	C
29	D1	949	C
29	D1	952	A
29	D1	953	G
29	D1	954	U
29	D1	957	C
29	D1	958	C
29	D1	960	U
29	D1	961	C
29	D1	962	A
29	D1	963	G
29	D1	967	A
29	D1	970	A
29	D1	971	G
29	D1	973	A
29	D1	974	G
29	D1	975	C
29	D1	978	G
29	D1	979	U
29	D1	980	A
29	D1	981	U
29	D1	984	G
29	D1	987	U
29	D1	994	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	995	U
29	D1	996	A
29	D1	1000	C
29	D1	1002	A
29	D1	1006	A
29	D1	1007	U
29	D1	1010	G
29	D1	1011	A
29	D1	1013	G
29	D1	1014	U
29	D1	1015	U
29	D1	1017	C
29	D1	1019	G
29	D1	1024	G
29	D1	1026	A
29	D1	1027	A
29	D1	1030	A
29	D1	1033	U
29	D1	1036	A
29	D1	1038	C
29	D1	1041	U
29	D1	1042	U
29	D1	1047	A
29	D1	1048	A
29	D1	1049	C
29	D1	1051	U
29	D1	1053	A
29	D1	1060	U
29	D1	1061	A
29	D1	1063	G
29	D1	1064	A
29	D1	1065	A
29	D1	1066	G
29	D1	1067	U
29	D1	1068	C
29	D1	1071	U
29	D1	1074	U
29	D1	1075	A
29	D1	1077	U
29	D1	1078	U
29	D1	1079	A
29	D1	1080	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1081	U
29	D1	1082	U
29	D1	1085	A
29	D1	1093	A
29	D1	1094	U
29	D1	1095	U
29	D1	1096	U
29	D1	1097	G
29	D1	1098	A
29	D1	1100	U
29	D1	1101	G
29	D1	1102	A
29	D1	1103	A
29	D1	1104	G
29	D1	1109	U
29	D1	1113	G
29	D1	1115	G
29	D1	1116	G
29	D1	1117	G
29	D1	1119	C
29	D1	1120	A
29	D1	1123	U
29	D1	1124	U
29	D1	1128	U
29	D1	1129	A
29	D1	1130	A
29	D1	1131	G
29	D1	1132	C
29	D1	1133	A
29	D1	1136	A
29	D1	1139	G
29	D1	1140	G
29	D1	1143	A
29	D1	1144	U
29	D1	1145	G
29	D1	1149	G
29	D1	1151	U
29	D1	1152	G
29	D1	1153	A
29	D1	1154	A
29	D1	1155	C
29	D1	1157	G

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1158	A
29	D1	1159	A
29	D1	1160	C
29	D1	1162	U
29	D1	1163	A
29	D1	1168	U
29	D1	1169	A
29	D1	1174	G
29	D1	1175	C
29	D1	1176	C
29	D1	1177	G
29	D1	1178	G
29	D1	1179	A
29	D1	1180	A
29	D1	1181	U
29	D1	1184	A
29	D1	1187	C
29	D1	1189	C
29	D1	1190	A
29	D1	1191	U
29	D1	1192	C
29	D1	1193	A
29	D1	1194	G
29	D1	1195	A
29	D1	1196	C
29	D1	1197	A
29	D1	1198	C
29	D1	1199	C
29	D1	1200	A
29	D1	1201	C
29	D1	1202	A
29	D1	1205	A
29	D1	1206	G
29	D1	1207	G
29	D1	1208	U
29	D1	1209	G
29	D1	1211	U
29	D1	1212	A
29	D1	1213	G
29	D1	1214	U
29	D1	1217	A
29	D1	1218	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1219	C
29	D1	1220	U
29	D1	1221	A
29	D1	1222	G
29	D1	1223	A
29	D1	1224	C
29	D1	1225	A
29	D1	1226	G
29	D1	1227	C
29	D1	1228	C
29	D1	1229	G
29	D1	1235	U
29	D1	1236	G
29	D1	1237	G
29	D1	1239	C
29	D1	1240	A
29	D1	1241	U
29	D1	1242	G
29	D1	1244	A
29	D1	1245	A
29	D1	1246	G
29	D1	1248	C
29	D1	1249	G
29	D1	1251	A
29	D1	1253	U
29	D1	1254	C
29	D1	1256	G
29	D1	1257	C
29	D1	1258	U
29	D1	1259	A
29	D1	1261	G
29	D1	1262	G
29	D1	1263	A
29	D1	1264	G
29	D1	1265	U
29	D1	1268	G
29	D1	1269	U
29	D1	1270	A
29	D1	1272	C
29	D1	1273	A
29	D1	1274	A
29	D1	1275	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1277	C
29	D1	1278	A
29	D1	1279	C
29	D1	1280	C
29	D1	1284	C
29	D1	1286	A
29	D1	1287	A
29	D1	1288	U
29	D1	1289	G
29	D1	1290	A
29	D1	1291	A
29	D1	1292	C
29	D1	1295	G
29	D1	1296	C
29	D1	1297	C
29	D1	1298	C
29	D1	1299	U
29	D1	1303	A
29	D1	1305	U
29	D1	1307	G
29	D1	1308	A
29	D1	1309	U
29	D1	1310	G
29	D1	1313	G
29	D1	1314	C
29	D1	1315	U
29	D1	1316	C
29	D1	1318	A
29	D1	1320	C
29	D1	1324	U
29	D1	1325	U
29	D1	1326	A
29	D1	1330	A
29	D1	1331	U
29	D1	1332	A
29	D1	1338	C
29	D1	1341	U
29	D1	1342	C
29	D1	1348	U
29	D1	1349	G
29	D1	1350	A
29	D1	1351	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1352	A
29	D1	1353	U
29	D1	1354	G
29	D1	1355	A
29	D1	1356	U
29	D1	1365	G
29	D1	1368	U
29	D1	1370	G
29	D1	1371	G
29	D1	1373	A
29	D1	1378	U
29	D1	1379	G
29	D1	1380	G
29	D1	1384	U
29	D1	1385	C
29	D1	1386	A
29	D1	1389	G
29	D1	1390	A
29	D1	1392	G
29	D1	1394	A
29	D1	1395	G
29	D1	1398	U
29	D1	1399	A
29	D1	1400	G
29	D1	1404	G
29	D1	1405	U
29	D1	1406	A
29	D1	1407	A
29	D1	1408	G
29	D1	1410	U
29	D1	1412	G
29	D1	1416	C
29	D1	1418	A
29	D1	1419	A
29	D1	1429	G
29	D1	1430	U
29	D1	1431	G
29	D1	1434	G
29	D1	1435	A
29	D1	1437	C
29	D1	1440	G
29	D1	1441	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1442	U
29	D1	1443	G
29	D1	1445	U
29	D1	1446	A
29	D1	1450	G
29	D1	1453	A
29	D1	1455	U
29	D1	1456	A
29	D1	1460	A
29	D1	1462	A
29	D1	1465	A
29	D1	1467	A
29	D1	1468	A
29	D1	1469	C
29	D1	1470	U
29	D1	1478	C
29	D1	1479	U
29	D1	1480	G
29	D1	1481	A
29	D1	1482	A
29	D1	1483	G
29	D1	1484	U
29	D1	1485	G
29	D1	1488	G
29	D1	1493	G
29	D1	1495	U
29	D1	1496	C
29	D1	1497	C
29	D1	1501	U
29	D1	1503	A
29	D1	1504	A
29	D1	1505	C
29	D1	1506	A
29	D1	1507	G
29	D1	1508	C
29	D1	1510	G
29	D1	1511	U
29	D1	1512	U
29	D1	1520	G
29	D1	1521	G
29	D1	1524	A
29	D1	1525	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1527	C
29	D1	1530	U
29	D1	1531	C
29	D1	1533	U
29	D1	1536	G
29	D1	1539	A
29	D1	1540	U
29	D1	1542	G
29	D1	1548	C
29	D1	1549	U
29	D1	1551	C
29	D1	1552	G
29	D1	1553	U
29	D1	1554	U
29	D1	1556	C
29	D1	1557	A
29	D1	1558	A
29	D1	1559	A
29	D1	1560	G
29	D1	1567	U
29	D1	1568	U
29	D1	1572	U
29	D1	1575	A
29	D1	1579	C
29	D1	1580	A
29	D1	1581	C
29	D1	1582	C
29	D1	1583	A
29	D1	1584	U
29	D1	1587	A
29	D1	1589	A
29	D1	1593	A
29	D1	1595	U
29	D1	1596	C
29	D1	1601	U
29	D1	1602	A
29	D1	1605	A
29	D1	1606	U
29	D1	1607	U
29	D1	1608	C
29	D1	1609	C
29	D1	1610	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1620	U
29	D1	1622	U
29	D1	1626	U
29	D1	1627	U
29	D1	1628	C
29	D1	1629	U
29	D1	1630	U
29	D1	1631	C
29	D1	1632	A
29	D1	1633	C
29	D1	1634	G
29	D1	1635	G
29	D1	1636	U
29	D1	1638	A
29	D1	1639	C
29	D1	1641	U
29	D1	1643	A
29	D1	1644	C
29	D1	1645	U
29	D1	1646	G
29	D1	1647	A
29	D1	1652	G
29	D1	1653	G
29	D1	1655	G
29	D1	1656	A
29	D1	1661	G
29	D1	1667	A
29	D1	1668	G
29	D1	1671	C
29	D1	1672	U
29	D1	1678	G
29	D1	1681	U
29	D1	1682	U
29	D1	1683	A
29	D1	1684	U
29	D1	1685	C
29	D1	1686	U
29	D1	1687	U
29	D1	1688	U
29	D1	1689	U
29	D1	1692	U
29	D1	1694	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1698	C
29	D1	1699	A
29	D1	1701	C
29	D1	1703	U
29	D1	1704	A
29	D1	1706	C
29	D1	1708	C
29	D1	1710	C
29	D1	1713	G
29	D1	1714	A
29	D1	1716	U
29	D1	1717	U
29	D1	1724	U
29	D1	1725	C
29	D1	1726	C
29	D1	1727	G
29	D1	1728	G
29	D1	1729	A
29	D1	1730	G
29	D1	1734	G
29	D1	1735	G
29	D1	1736	G
29	D1	1739	U
29	D1	1740	U
29	D1	1744	G
29	D1	1750	A
29	D1	1754	G
29	D1	1756	C
29	D1	1760	A
29	D1	1762	C
29	D1	1766	G
29	D1	1769	G
29	D1	1773	C
29	D1	1774	C
29	D1	1775	G
29	D1	1779	C
29	D1	1780	G
29	D1	1781	C
29	D1	1782	U
29	D1	1783	U
29	D1	1786	G
29	D1	1787	A

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1788	C
29	D1	1792	C
29	D1	1793	C
29	D1	1794	G
29	D1	1795	U
29	D1	1796	G
29	D1	1797	A
29	D1	1802	C
29	D1	1803	C
29	D1	1806	A
29	D1	1807	G
29	D1	1808	G
29	D1	1809	A
29	D1	1810	A
29	D1	1812	G
29	D1	1813	A
29	D1	1814	A
29	D1	1815	U
29	D1	1816	A
29	D1	1820	U
29	D1	1821	U
29	D1	1822	C
29	D1	1830	G
29	D1	1834	U
29	D1	1839	A
29	D1	1840	U
29	D1	1841	A
29	D1	1842	A
29	D1	1844	C
29	D1	1845	G
29	D1	1846	C
29	D1	1847	A
29	D1	1849	C
29	D1	1852	G
29	D1	1853	U
29	D1	1855	U
29	D1	1857	C
29	D1	1858	A
29	D1	1859	A
29	D1	1864	A
29	D1	1871	U
29	D1	1875	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1876	U
29	D1	1877	U
29	D1	1878	G
29	D1	1879	A
29	D1	1880	U
29	D1	1882	G
29	D1	1885	U
29	D1	1886	A
29	D1	1888	U
29	D1	1889	G
29	D1	1891	A
29	D1	1901	A
29	D1	1905	G
29	D1	1906	G
29	D1	1907	C
29	D1	1913	A
29	D1	1914	G
29	D1	1920	U
29	D1	1921	A
29	D1	1925	U
29	D1	1926	C
29	D1	1927	G
29	D1	1928	G
29	D1	1931	U
29	D1	1932	A
29	D1	1933	A
29	D1	1935	G
29	D1	1941	C
29	D1	1946	A
29	D1	1947	G
29	D1	1948	G
29	D1	1950	U
29	D1	2093	A
29	D1	2095	G
29	D1	2096	A
29	D1	2102	U
29	D1	2105	G
29	D1	2106	A
29	D1	2111	G
29	D1	2112	U
29	D1	2113	A
29	D1	2114	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2115	G
29	D1	2117	A
29	D1	2121	G
29	D1	2122	G
29	D1	2126	A
29	D1	2129	U
29	D1	2131	A
29	D1	2132	C
29	D1	2133	U
29	D1	2137	U
29	D1	2138	A
29	D1	2139	A
29	D1	2141	U
29	D1	2144	A
29	D1	2147	A
29	D1	2148	U
29	D1	2149	A
29	D1	2150	G
29	D1	2151	C
29	D1	2152	A
29	D1	2158	A
29	D1	2161	G
29	D1	2168	A
29	D1	2169	G
29	D1	2172	A
29	D1	2173	U
29	D1	2174	G
29	D1	2176	U
29	D1	2178	A
29	D1	2185	G
29	D1	2187	G
29	D1	2191	U
29	D1	2193	U
29	D1	2194	G
29	D1	2195	C
29	D1	2201	G
29	D1	2205	U
29	D1	2206	G
29	D1	2207	A
29	D1	2208	A
29	D1	2209	U
29	D1	2210	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2211	U
29	D1	2215	A
29	D1	2222	A
29	D1	2223	A
29	D1	2224	A
29	D1	2227	C
29	D1	2244	A
29	D1	2247	G
29	D1	2248	C
29	D1	2249	G
29	D1	2250	G
29	D1	2252	A
29	D1	2254	U
29	D1	2255	A
29	D1	2256	A
29	D1	2257	C
29	D1	2259	A
29	D1	2260	U
29	D1	2261	G
29	D1	2262	A
29	D1	2263	C
29	D1	2266	U
29	D1	2270	A
29	D1	2272	G
29	D1	2273	G
29	D1	2275	A
29	D1	2276	G
29	D1	2277	C
29	D1	2280	A
29	D1	2281	A
29	D1	2282	U
29	D1	2283	G
29	D1	2286	U
29	D1	2288	G
29	D1	2290	C
29	D1	2291	A
29	D1	2292	U
29	D1	2295	A
29	D1	2296	A
29	D1	2297	U
29	D1	2298	U
29	D1	2299	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2303	A
29	D1	2306	C
29	D1	2307	G
29	D1	2308	C
29	D1	2309	A
29	D1	2310	U
29	D1	2311	G
29	D1	2313	A
29	D1	2314	U
29	D1	2315	G
29	D1	2320	A
29	D1	2324	A
29	D1	2326	A
29	D1	2327	U
29	D1	2329	C
29	D1	2330	C
29	D1	2334	U
29	D1	2335	G
29	D1	2336	U
29	D1	2339	C
29	D1	2341	A
29	D1	2342	U
29	D1	2344	U
29	D1	2345	A
29	D1	2360	C
29	D1	2361	A
29	D1	2362	C
29	D1	2363	A
29	D1	2364	G
29	D1	2365	C
29	D1	2371	G
29	D1	2372	A
29	D1	2373	A
29	D1	2374	C
29	D1	2375	G
29	D1	2377	G
29	D1	2379	U
29	D1	2383	C
29	D1	2384	A
29	D1	2385	G
29	D1	2386	A
29	D1	2393	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2397	A
29	D1	2401	A
29	D1	2402	A
29	D1	2403	G
29	D1	2404	A
29	D1	2405	C
29	D1	2411	U
29	D1	2412	G
29	D1	2414	G
29	D1	2415	C
29	D1	2417	U
29	D1	2421	U
29	D1	2422	C
29	D1	2423	U
29	D1	2424	A
29	D1	2432	A
29	D1	2434	U
29	D1	2436	U
29	D1	2437	G
29	D1	2439	A
29	D1	2443	A
29	D1	2445	A
29	D1	2446	U
29	D1	2449	A
29	D1	2450	G
29	D1	2451	G
29	D1	2452	G
29	D1	2453	U
29	D1	2454	G
29	D1	2458	A
29	D1	2459	A
29	D1	2461	A
29	D1	2462	A
29	D1	2463	G
29	D1	2468	A
29	D1	2472	U
29	D1	2473	C
29	D1	2474	G
29	D1	2479	C
29	D1	2484	A
29	D1	2485	A
29	D1	2486	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2487	U
29	D1	2488	A
29	D1	2491	A
29	D1	2492	C
29	D1	2493	U
29	D1	2499	U
29	D1	2500	A
29	D1	2501	U
29	D1	2502	A
29	D1	2503	G
29	D1	2504	U
29	D1	2508	U
29	D1	2511	A
29	D1	2512	C
29	D1	2513	U
29	D1	2514	U
29	D1	2515	A
29	D1	2516	U
29	D1	2517	U
29	D1	2520	A
29	D1	2521	U
29	D1	2522	G
29	D1	2523	A
29	D1	2524	A
29	D1	2525	G
29	D1	2526	C
29	D1	2528	G
29	D1	2530	G
29	D1	2531	C
29	D1	2536	A
29	D1	2539	C
29	D1	2540	A
29	D1	2541	U
29	D1	2542	U
29	D1	2543	U
29	D1	2547	A
29	D1	2548	C
29	D1	2549	G
29	D1	2550	U
29	D1	2552	C
29	D1	2553	U
29	D1	2554	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2555	G
29	D1	2556	C
29	D1	2557	A
29	D1	2558	U
29	D1	2559	U
29	D1	2560	C
29	D1	2561	A
29	D1	2569	A
29	D1	2572	C
29	D1	2574	G
29	D1	2580	A
29	D1	2581	U
29	D1	2582	C
29	D1	2583	C
29	D1	2584	G
29	D1	2585	G
29	D1	2586	G
29	D1	2587	U
29	D1	2589	G
29	D1	2593	A
29	D1	2594	C
29	D1	2598	G
29	D1	2600	C
29	D1	2603	G
29	D1	2605	G
29	D1	2606	G
29	D1	2607	G
29	D1	2612	U
29	D1	2613	U
29	D1	2614	G
29	D1	2618	G
29	D1	2619	G
29	D1	2624	G
29	D1	2626	A
29	D1	2627	C
29	D1	2628	A
29	D1	2629	U
29	D1	2631	U
29	D1	2636	A
29	D1	2637	A
29	D1	2638	C
29	D1	2639	G

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2642	A
29	D1	2643	A
29	D1	2644	C
29	D1	2648	G
29	D1	2649	A
29	D1	2650	U
29	D1	2651	G
29	D1	2652	U
29	D1	2653	C
29	D1	2655	U
29	D1	2656	A
29	D1	2657	A
29	D1	2658	G
29	D1	2662	G
29	D1	2663	G
29	D1	2664	C
29	D1	2666	C
29	D1	2667	A
29	D1	2668	U
29	D1	2671	A
29	D1	2672	G
29	D1	2675	C
29	D1	2676	A
29	D1	2677	G
29	D1	2678	A
29	D1	2679	A
29	D1	2681	U
29	D1	2682	C
29	D1	2683	U
29	D1	2684	C
29	D1	2685	C
29	D1	2686	A
29	D1	2687	G
29	D1	2688	U
29	D1	2689	A
29	D1	2690	G
29	D1	2691	A
29	D1	2693	C
29	D1	2694	A
29	D1	2695	A
29	D1	2696	A
29	D1	2697	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2699	G
29	D1	2700	G
29	D1	2702	A
29	D1	2703	A
29	D1	2704	A
29	D1	2708	C
29	D1	2709	C
29	D1	2710	C
29	D1	2712	U
29	D1	2713	U
29	D1	2714	G
29	D1	2715	A
29	D1	2716	U
29	D1	2717	U
29	D1	2718	U
29	D1	2719	U
29	D1	2725	U
29	D1	2726	C
29	D1	2727	A
29	D1	2728	G
29	D1	2729	U
29	D1	2730	G
29	D1	2731	U
29	D1	2733	A
29	D1	2735	U
29	D1	2738	A
29	D1	2740	A
29	D1	2742	C
29	D1	2743	A
29	D1	2746	A
29	D1	2751	G
29	D1	2752	U
29	D1	2753	G
29	D1	2755	C
29	D1	2760	C
29	D1	2762	A
29	D1	2764	C
29	D1	2766	U
29	D1	2769	A
29	D1	2771	U
29	D1	2772	C
29	D1	2776	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2777	G
29	D1	2778	G
29	D1	2779	A
29	D1	2780	A
29	D1	2782	U
29	D1	2784	G
29	D1	2786	G
29	D1	2787	G
29	D1	2790	A
29	D1	2796	G
29	D1	2798	C
29	D1	2799	A
29	D1	2801	A
29	D1	2802	A
29	D1	2804	A
29	D1	2805	G
29	D1	2807	U
29	D1	2809	C
29	D1	2810	C
29	D1	2814	G
29	D1	2816	G
29	D1	2817	A
29	D1	2818	U
29	D1	2822	U
29	D1	2825	C
29	D1	2826	U
29	D1	2828	G
29	D1	2829	U
29	D1	2830	G
29	D1	2833	A
29	D1	2834	G
29	D1	2835	U
29	D1	2836	C
29	D1	2838	A
29	D1	2839	G
29	D1	2840	C
29	D1	2842	U
29	D1	2843	U
29	D1	2844	C
29	D1	2845	A
29	D1	2846	U
29	D1	2847	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2850	G
29	D1	2851	A
29	D1	2852	C
29	D1	2859	U
29	D1	2860	U
29	D1	2867	C
29	D1	2870	C
29	D1	2871	G
29	D1	2872	A
29	D1	2873	U
29	D1	2874	G
29	D1	2875	U
29	D1	2881	C
29	D1	2883	U
29	D1	2884	C
29	D1	2886	U
29	D1	2887	A
29	D1	2888	U
29	D1	2894	C
29	D1	2896	A
29	D1	2897	A
29	D1	2898	G
29	D1	2899	C
29	D1	2900	A
29	D1	2901	G
29	D1	2905	U
29	D1	2911	A
29	D1	2912	G
29	D1	2914	G
29	D1	2915	U
29	D1	2916	U
29	D1	2918	G
29	D1	2919	A
29	D1	2920	U
29	D1	2922	G
29	D1	2923	U
29	D1	2928	C
29	D1	2929	C
29	D1	2930	A
29	D1	2932	U
29	D1	2935	U
29	D1	2936	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2939	G
29	D1	2941	A
29	D1	2942	C
29	D1	2943	G
29	D1	2944	U
29	D1	2945	G
29	D1	2947	G
29	D1	2954	U
29	D1	2956	A
29	D1	2957	G
29	D1	2960	C
29	D1	2961	G
29	D1	2962	U
29	D1	2965	U
29	D1	2968	G
29	D1	2971	A
29	D1	2972	G
29	D1	2973	G
29	D1	2978	U
29	D1	2979	U
29	D1	2983	C
29	D1	2984	C
29	D1	2986	U
29	D1	2987	A
29	D1	2988	C
29	D1	2989	U
29	D1	2990	G
29	D1	2993	G
29	D1	2996	U
29	D1	2997	G
29	D1	2998	U
29	D1	2999	U
29	D1	3003	G
29	D1	3004	C
29	D1	3005	A
29	D1	3006	A
29	D1	3007	U
29	D1	3010	U
29	D1	3011	A
29	D1	3012	A
29	D1	3013	U
29	D1	3014	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	3019	U
29	D1	3020	U
29	D1	3023	U
29	D1	3024	A
29	D1	3030	G
29	D1	3031	G
29	D1	3033	A
29	D1	3038	U
29	D1	3039	C
29	D1	3040	A
29	D1	3041	U
29	D1	3045	G
29	D1	3046	A
29	D1	3048	A
29	D1	3049	A
29	D1	3052	G
29	D1	3054	U
29	D1	3056	U
29	D1	3057	U
29	D1	3058	U
29	D1	3059	G
29	D1	3060	C
29	D1	3061	G
29	D1	3064	U
29	D1	3066	U
29	D1	3071	U
29	D1	3072	C
29	D1	3074	G
29	D1	3075	G
29	D1	3077	A
29	D1	3078	U
29	D1	3079	U
29	D1	3080	G
29	D1	3090	U
29	D1	3091	A
29	D1	3092	C
29	D1	3093	C
29	D1	3094	A
29	D1	3096	C
29	D1	3097	C
29	D1	3098	G
29	D1	3099	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	3100	U
29	D1	3101	G
29	D1	3102	G
29	D1	3103	A
29	D1	3104	U
29	D1	3105	U
29	D1	3107	U
29	D1	3115	C
29	D1	3116	G
29	D1	3120	C
29	D1	3121	U
29	D1	3122	A
29	D1	3123	A
29	D1	3126	C
29	D1	3127	A
29	D1	3128	G
29	D1	3129	A
29	D1	3130	A
29	D1	3131	U
29	D1	3133	C
29	D1	3134	A
29	D1	3136	G
29	D1	3137	C
29	D1	3138	U
29	D1	3139	A
29	D1	3140	G
29	D1	3141	A
29	D1	3142	A
29	D1	3143	C
29	D1	3144	G
29	D1	3145	C
29	D1	3149	G
29	D1	3151	U
29	D1	3152	U
29	D1	3153	U
29	D1	3154	C
29	D1	3157	U
29	D1	3159	C
29	D1	3160	U
29	D1	3161	C
29	D1	3162	C
29	D1	3163	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	3164	C
29	D1	3166	C
29	D1	3169	U
29	D1	3170	A
29	D1	3171	U
29	D1	3172	A
29	D1	3173	G
29	D1	3174	A
29	D1	3175	U
29	D1	3176	G
29	D1	3177	G
29	D1	3178	A
29	D1	3179	U
29	D1	3180	A
29	D1	3181	C
29	D1	3184	A
29	D1	3185	U
29	D1	3187	A
29	D1	3191	G
29	D1	3195	U
29	D1	3196	U
29	D1	3198	U
29	D1	3200	G
29	D1	3201	C
29	D1	3202	G
29	D1	3203	U
29	D1	3204	C
29	D1	3205	G
29	D1	3206	C
29	D1	3207	U
29	D1	3208	G
29	D1	3209	A
29	D1	3210	A
29	D1	3211	C
29	D1	3212	C
29	D1	3213	A
29	D1	3214	U
29	D1	3215	A
29	D1	3216	G
29	D1	3217	C
29	D1	3218	A
29	D1	3219	G

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	3220	G
29	D1	3223	A
29	D1	3225	C
29	D1	3227	A
29	D1	3228	C
29	D1	3229	G
29	D1	3237	U
29	D1	3238	G
29	D1	3242	G
29	D1	3243	A
29	D1	3244	A
29	D1	3245	A
29	D1	3246	G
29	D1	3254	G
29	D1	3257	C
29	D1	3258	U
29	D1	3259	U
29	D1	3260	G
29	D1	3261	C
29	D1	3262	U
29	D1	3263	G
29	D1	3265	C
29	D1	3267	A
29	D1	3268	A
29	D1	3269	U
29	D1	3270	U
29	D1	3271	G
29	D1	3272	C
29	D1	3273	A
29	D1	3274	A
29	D1	3275	U
29	D1	3276	G
29	D1	3277	U
29	D1	3279	A
29	D1	3280	U
29	D1	3281	U
29	D1	3282	U
29	D1	3283	U
29	D1	3285	C
29	D1	3287	U
29	D1	3288	G
29	D1	3290	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	3291	G
29	D1	3292	A
29	D1	3293	U
29	D1	3294	A
29	D1	3300	U
29	D1	3301	U
29	D1	3302	U
29	D1	3303	G
29	D1	3304	U
29	D1	3305	A
29	D1	3306	U
29	D1	3312	U
29	D1	3313	U
29	D1	3314	A
29	D1	3315	G
29	D1	3316	A
29	D1	3317	U
29	D1	3318	G
29	D1	3319	U
29	D1	3320	A
29	D1	3321	C
29	D1	3322	A
29	D1	3324	C
29	D1	3329	U
29	D1	3331	U
29	D1	3332	U
29	D1	3333	G
29	D1	3334	U
29	D1	3339	A
29	D1	3341	U
29	D1	3342	A
29	D1	3343	G
29	D1	3344	A
29	D1	3350	C
29	D1	3351	U
29	D1	3352	U
29	D1	3353	G
29	D1	3354	U
29	D1	3355	U
29	D1	3356	G
29	D1	3357	U
29	D1	3358	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	3359	A
29	D1	3360	C
29	D1	3361	G
29	D1	3362	A
29	D1	3363	U
29	D1	3369	G
29	D1	3370	A
29	D1	3371	G
29	D1	3375	A
29	D1	3376	A
29	D1	3377	G
29	D1	3378	C
29	D1	3379	C
29	D1	3381	U
29	D1	3382	U
29	D1	3383	G
29	D1	3384	U
29	D1	3387	U
29	D1	3389	U
29	D1	3390	G
29	D1	3392	U
29	D1	3394	U
29	D1	3395	G
29	D1	3396	U
30	D2	2	G
30	D2	5	G
30	D2	6	C
30	D2	9	C
30	D2	10	C
30	D2	11	A
30	D2	12	U
30	D2	13	A
30	D2	14	U
30	D2	15	C
30	D2	19	C
30	D2	22	A
30	D2	27	A
30	D2	29	C
30	D2	30	G
30	D2	31	U
30	D2	33	U
30	D2	34	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
30	D2	35	C
30	D2	36	C
30	D2	38	U
30	D2	39	C
30	D2	40	C
30	D2	41	G
30	D2	42	A
30	D2	43	U
30	D2	44	C
30	D2	47	C
30	D2	48	U
30	D2	49	G
30	D2	50	U
30	D2	51	A
30	D2	54	U
30	D2	55	A
30	D2	56	A
30	D2	58	C
30	D2	63	A
30	D2	64	A
30	D2	65	G
30	D2	66	A
30	D2	68	C
30	D2	70	U
30	D2	75	G
30	D2	76	A
30	D2	78	U
30	D2	79	A
30	D2	81	U
30	D2	83	U
30	D2	87	G
30	D2	89	G
30	D2	92	A
30	D2	93	C
30	D2	96	U
30	D2	97	A
30	D2	98	C
30	D2	99	G
30	D2	103	A
30	D2	105	C
30	D2	107	C
30	D2	109	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
30	D2	110	G
30	D2	112	G
30	D2	115	G
30	D2	118	A
30	D2	120	C
30	D2	121	U
31	D3	2	A
31	D3	6	U
31	D3	10	A
31	D3	12	A
31	D3	14	C
31	D3	23	U
31	D3	24	G
31	D3	25	G
31	D3	30	C
31	D3	33	A
31	D3	34	U
31	D3	38	U
31	D3	40	A
31	D3	41	A
31	D3	45	C
31	D3	49	G
31	D3	50	C
31	D3	51	G
31	D3	55	U
31	D3	59	A
31	D3	60	U
31	D3	61	A
31	D3	62	C
31	D3	63	G
31	D3	65	A
31	D3	67	U
31	D3	68	G
31	D3	70	G
31	D3	71	A
31	D3	72	A
31	D3	73	U
31	D3	75	G
31	D3	76	C
31	D3	77	A
31	D3	78	G
31	D3	80	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
31	D3	82	U
31	D3	83	C
31	D3	85	G
31	D3	86	U
31	D3	87	G
31	D3	88	A
31	D3	89	A
31	D3	90	U
31	D3	93	U
31	D3	94	C
31	D3	95	G
31	D3	96	A
31	D3	97	A
31	D3	99	C
31	D3	101	U
31	D3	104	A
31	D3	105	A
31	D3	106	C
31	D3	107	G
31	D3	108	C
31	D3	110	C
31	D3	111	A
31	D3	112	U
31	D3	113	U
31	D3	114	G
31	D3	117	C
31	D3	124	G
31	D3	125	U
31	D3	126	A
31	D3	127	U
31	D3	128	U
31	D3	129	C
31	D3	130	C
31	D3	132	G
31	D3	138	A
31	D3	141	C
31	D3	145	U
31	D3	147	U
31	D3	149	A
31	D3	151	C
31	D3	152	G
31	D3	157	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
31	D3	158	U

All (856) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A1	24	U
1	A1	40	A
1	A1	45	U
1	A1	61	A
1	A1	62	A
1	A1	65	A
1	A1	67	A
1	A1	68	A
1	A1	71	A
1	A1	78	A
1	A1	80	A
1	A1	103	A
1	A1	112	A
1	A1	114	C
1	A1	121	U
1	A1	125	U
1	A1	133	U
1	A1	135	A
1	A1	137	U
1	A1	139	C
1	A1	150	U
1	A1	160	C
1	A1	167	U
1	A1	183	U
1	A1	191	C
1	A1	195	G
1	A1	198	A
1	A1	203	U
1	A1	211	U
1	A1	217	A
1	A1	241	U
1	A1	243	G
1	A1	248	U
1	A1	254	A
1	A1	262	U
1	A1	263	C
1	A1	270	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	272	U
1	A1	284	G
1	A1	290	G
1	A1	295	A
1	A1	310	C
1	A1	320	U
1	A1	322	G
1	A1	351	C
1	A1	358	U
1	A1	380	U
1	A1	386	G
1	A1	399	A
1	A1	400	A
1	A1	416	A
1	A1	417	A
1	A1	427	C
1	A1	438	A
1	A1	439	U
1	A1	447	U
1	A1	511	A
1	A1	515	A
1	A1	521	A
1	A1	525	A
1	A1	528	U
1	A1	540	G
1	A1	541	A
1	A1	555	A
1	A1	577	G
1	A1	594	A
1	A1	607	G
1	A1	622	A
1	A1	659	C
1	A1	699	U
1	A1	704	C
1	A1	720	G
1	A1	721	U
1	A1	750	U
1	A1	755	A
1	A1	765	G
1	A1	782	U
1	A1	807	A
1	A1	820	U

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	827	C
1	A1	829	A
1	A1	842	C
1	A1	846	G
1	A1	859	A
1	A1	913	G
1	A1	914	G
1	A1	932	U
1	A1	959	U
1	A1	963	A
1	A1	964	U
1	A1	986	G
1	A1	1003	A
1	A1	1045	C
1	A1	1091	A
1	A1	1094	G
1	A1	1097	U
1	A1	1100	G
1	A1	1107	G
1	A1	1110	G
1	A1	1139	A
1	A1	1142	A
1	A1	1149	G
1	A1	1150	G
1	A1	1185	U
1	A1	1190	C
1	A1	1196	A
1	A1	1200	G
1	A1	1202	A
1	A1	1203	A
1	A1	1204	A
1	A1	1207	C
1	A1	1255	G
1	A1	1269	U
1	A1	1274	C
1	A1	1285	U
1	A1	1305	U
1	A1	1344	A
1	A1	1349	G
1	A1	1392	U
1	A1	1435	G
1	A1	1458	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A1	1472	C
1	A1	1478	G
1	A1	1480	G
1	A1	1481	C
1	A1	1492	A
1	A1	1513	G
1	A1	1522	U
1	A1	1539	G
1	A1	1560	U
1	A1	1567	U
1	A1	1573	A
1	A1	1574	G
1	A1	1580	C
1	A1	1591	C
1	A1	1609	U
1	A1	1633	A
1	A1	1634	C
1	A1	1636	C
1	A1	1645	G
1	A1	1657	U
1	A1	1694	A
1	A1	1754	A
1	A1	1761	U
1	A1	1764	C
1	A1	1779	U
1	A1	1791	A
1	A1	1793	G
29	B1	14	U
29	B1	15	C
29	B1	20	A
29	B1	42	C
29	B1	48	A
29	B1	65	A
29	B1	88	A
29	B1	92	G
29	B1	97	U
29	B1	102	C
29	B1	120	G
29	B1	152	U
29	B1	154	U
29	B1	155	G
29	B1	156	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	157	A
29	B1	191	U
29	B1	200	C
29	B1	209	A
29	B1	210	U
29	B1	249	U
29	B1	251	G
29	B1	265	A
29	B1	282	G
29	B1	304	G
29	B1	326	U
29	B1	327	A
29	B1	329	U
29	B1	330	G
29	B1	332	C
29	B1	340	C
29	B1	344	A
29	B1	369	A
29	B1	379	C
29	B1	396	A
29	B1	400	G
29	B1	422	A
29	B1	423	A
29	B1	424	G
29	B1	425	G
29	B1	431	U
29	B1	516	A
29	B1	520	U
29	B1	524	U
29	B1	536	U
29	B1	560	G
29	B1	561	C
29	B1	574	U
29	B1	575	G
29	B1	576	C
29	B1	577	C
29	B1	590	G
29	B1	603	A
29	B1	604	G
29	B1	605	U
29	B1	609	G
29	B1	620	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	625	G
29	B1	641	C
29	B1	647	A
29	B1	666	A
29	B1	674	G
29	B1	698	U
29	B1	705	A
29	B1	715	A
29	B1	718	G
29	B1	720	A
29	B1	746	A
29	B1	747	A
29	B1	758	C
29	B1	769	G
29	B1	806	A
29	B1	834	U
29	B1	845	G
29	B1	857	G
29	B1	858	A
29	B1	908	G
29	B1	914	A
29	B1	943	U
29	B1	953	G
29	B1	975	C
29	B1	979	U
29	B1	1005	G
29	B1	1026	A
29	B1	1038	C
29	B1	1062	A
29	B1	1063	G
29	B1	1076	C
29	B1	1102	A
29	B1	1103	A
29	B1	1130	A
29	B1	1139	G
29	B1	1143	A
29	B1	1144	U
29	B1	1152	G
29	B1	1154	A
29	B1	1157	G
29	B1	1159	A
29	B1	1167	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1177	G
29	B1	1197	A
29	B1	1202	A
29	B1	1207	G
29	B1	1211	U
29	B1	1260	A
29	B1	1286	A
29	B1	1289	G
29	B1	1291	A
29	B1	1294	A
29	B1	1296	C
29	B1	1306	G
29	B1	1307	G
29	B1	1317	A
29	B1	1329	U
29	B1	1331	U
29	B1	1367	G
29	B1	1389	G
29	B1	1398	U
29	B1	1428	A
29	B1	1454	A
29	B1	1468	A
29	B1	1469	C
29	B1	1478	C
29	B1	1482	A
29	B1	1483	G
29	B1	1484	U
29	B1	1503	A
29	B1	1504	A
29	B1	1505	C
29	B1	1520	G
29	B1	1524	A
29	B1	1588	A
29	B1	1607	U
29	B1	1627	U
29	B1	1640	G
29	B1	1641	U
29	B1	1654	A
29	B1	1685	C
29	B1	1686	U
29	B1	1716	U
29	B1	1728	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	1779	C
29	B1	1780	G
29	B1	1792	C
29	B1	1793	C
29	B1	1795	U
29	B1	1808	G
29	B1	1841	A
29	B1	1876	U
29	B1	1877	U
29	B1	1912	U
29	B1	2105	G
29	B1	2112	U
29	B1	2147	A
29	B1	2148	U
29	B1	2151	C
29	B1	2193	U
29	B1	2211	U
29	B1	2251	G
29	B1	2254	U
29	B1	2255	A
29	B1	2270	A
29	B1	2280	A
29	B1	2281	A
29	B1	2290	C
29	B1	2297	U
29	B1	2372	A
29	B1	2385	G
29	B1	2400	G
29	B1	2403	G
29	B1	2414	G
29	B1	2423	U
29	B1	2487	U
29	B1	2501	U
29	B1	2513	U
29	B1	2516	U
29	B1	2522	G
29	B1	2523	A
29	B1	2549	G
29	B1	2555	G
29	B1	2580	A
29	B1	2593	A
29	B1	2618	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	2652	U
29	B1	2656	A
29	B1	2684	C
29	B1	2688	U
29	B1	2699	G
29	B1	2707	C
29	B1	2717	U
29	B1	2727	A
29	B1	2728	G
29	B1	2775	U
29	B1	2779	A
29	B1	2799	A
29	B1	2804	A
29	B1	2805	G
29	B1	2808	A
29	B1	2817	A
29	B1	2834	G
29	B1	2850	G
29	B1	2851	A
29	B1	2859	U
29	B1	2872	A
29	B1	2896	A
29	B1	2898	G
29	B1	2900	A
29	B1	2948	C
29	B1	2996	U
29	B1	2997	G
29	B1	2998	U
29	B1	2999	U
29	B1	3002	C
29	B1	3013	U
29	B1	3023	U
29	B1	3024	A
29	B1	3030	G
29	B1	3045	G
29	B1	3047	U
29	B1	3058	U
29	B1	3059	G
29	B1	3071	U
29	B1	3078	U
29	B1	3090	U
29	B1	3093	C

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	B1	3097	C
29	B1	3098	G
29	B1	3099	C
29	B1	3102	G
29	B1	3121	U
29	B1	3137	C
29	B1	3139	A
29	B1	3143	C
29	B1	3144	G
29	B1	3151	U
29	B1	3152	U
29	B1	3168	A
29	B1	3171	U
29	B1	3173	G
29	B1	3179	U
29	B1	3180	A
29	B1	3204	C
29	B1	3205	G
29	B1	3211	C
29	B1	3257	C
29	B1	3268	A
29	B1	3274	A
29	B1	3290	G
29	B1	3291	G
29	B1	3299	A
29	B1	3303	G
29	B1	3313	U
29	B1	3316	A
29	B1	3328	G
29	B1	3331	U
29	B1	3351	U
29	B1	3356	G
29	B1	3377	G
29	B1	3386	G
30	B2	12	U
30	B2	13	A
30	B2	14	U
30	B2	26	C
30	B2	35	C
30	B2	38	U
30	B2	55	A
30	B2	62	U

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
30	B2	64	A
30	B2	77	G
30	B2	92	A
30	B2	109	G
31	B3	22	U
31	B3	40	A
31	B3	70	G
31	B3	71	A
31	B3	76	C
31	B3	94	C
31	B3	106	C
31	B3	111	A
31	B3	113	U
1	C1	24	U
1	C1	40	A
1	C1	44	U
1	C1	45	U
1	C1	61	A
1	C1	62	A
1	C1	65	A
1	C1	67	A
1	C1	68	A
1	C1	71	A
1	C1	78	A
1	C1	80	A
1	C1	103	A
1	C1	112	A
1	C1	114	C
1	C1	125	U
1	C1	133	U
1	C1	135	A
1	C1	137	U
1	C1	139	C
1	C1	150	U
1	C1	160	C
1	C1	167	U
1	C1	175	G
1	C1	183	U
1	C1	191	C
1	C1	195	G
1	C1	198	A
1	C1	203	U

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	211	U
1	C1	217	A
1	C1	241	U
1	C1	243	G
1	C1	248	U
1	C1	254	A
1	C1	262	U
1	C1	263	C
1	C1	270	C
1	C1	272	U
1	C1	284	G
1	C1	290	G
1	C1	295	A
1	C1	310	C
1	C1	320	U
1	C1	322	G
1	C1	351	C
1	C1	358	U
1	C1	373	G
1	C1	380	U
1	C1	386	G
1	C1	399	A
1	C1	400	A
1	C1	416	A
1	C1	417	A
1	C1	427	C
1	C1	438	A
1	C1	439	U
1	C1	447	U
1	C1	453	U
1	C1	511	A
1	C1	515	A
1	C1	521	A
1	C1	525	A
1	C1	528	U
1	C1	540	G
1	C1	541	A
1	C1	555	A
1	C1	577	G
1	C1	594	A
1	C1	607	G
1	C1	622	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	659	C
1	C1	717	C
1	C1	718	U
1	C1	719	U
1	C1	721	U
1	C1	722	G
1	C1	750	U
1	C1	755	A
1	C1	765	G
1	C1	782	U
1	C1	807	A
1	C1	820	U
1	C1	827	C
1	C1	829	A
1	C1	842	C
1	C1	846	G
1	C1	859	A
1	C1	913	G
1	C1	914	G
1	C1	932	U
1	C1	959	U
1	C1	963	A
1	C1	964	U
1	C1	986	G
1	C1	1003	A
1	C1	1045	C
1	C1	1091	A
1	C1	1094	G
1	C1	1097	U
1	C1	1100	G
1	C1	1107	G
1	C1	1110	G
1	C1	1139	A
1	C1	1142	A
1	C1	1149	G
1	C1	1150	G
1	C1	1185	U
1	C1	1190	C
1	C1	1196	A
1	C1	1200	G
1	C1	1202	A
1	C1	1203	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C1	1204	A
1	C1	1207	C
1	C1	1255	G
1	C1	1269	U
1	C1	1285	U
1	C1	1305	U
1	C1	1344	A
1	C1	1349	G
1	C1	1392	U
1	C1	1435	G
1	C1	1458	G
1	C1	1472	C
1	C1	1478	G
1	C1	1480	G
1	C1	1481	C
1	C1	1492	A
1	C1	1513	G
1	C1	1522	U
1	C1	1539	G
1	C1	1560	U
1	C1	1567	U
1	C1	1573	A
1	C1	1574	G
1	C1	1580	C
1	C1	1591	C
1	C1	1609	U
1	C1	1633	A
1	C1	1634	C
1	C1	1636	C
1	C1	1657	U
1	C1	1694	A
1	C1	1754	A
1	C1	1761	U
1	C1	1764	C
1	C1	1779	U
1	C1	1791	A
1	C1	1793	G
29	D1	14	U
29	D1	15	C
29	D1	20	A
29	D1	42	C
29	D1	48	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	65	A
29	D1	88	A
29	D1	92	G
29	D1	102	C
29	D1	120	G
29	D1	152	U
29	D1	154	U
29	D1	155	G
29	D1	156	G
29	D1	157	A
29	D1	191	U
29	D1	200	C
29	D1	210	U
29	D1	249	U
29	D1	251	G
29	D1	265	A
29	D1	282	G
29	D1	304	G
29	D1	326	U
29	D1	327	A
29	D1	332	C
29	D1	340	C
29	D1	369	A
29	D1	379	C
29	D1	396	A
29	D1	400	G
29	D1	422	A
29	D1	423	A
29	D1	424	G
29	D1	425	G
29	D1	431	U
29	D1	516	A
29	D1	520	U
29	D1	524	U
29	D1	536	U
29	D1	560	G
29	D1	561	C
29	D1	574	U
29	D1	575	G
29	D1	576	C
29	D1	577	C
29	D1	590	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	603	A
29	D1	604	G
29	D1	605	U
29	D1	609	G
29	D1	620	U
29	D1	625	G
29	D1	641	C
29	D1	647	A
29	D1	666	A
29	D1	674	G
29	D1	698	U
29	D1	705	A
29	D1	715	A
29	D1	718	G
29	D1	720	A
29	D1	746	A
29	D1	747	A
29	D1	758	C
29	D1	769	G
29	D1	806	A
29	D1	834	U
29	D1	845	G
29	D1	857	G
29	D1	858	A
29	D1	896	A
29	D1	943	U
29	D1	953	G
29	D1	975	C
29	D1	979	U
29	D1	1005	G
29	D1	1026	A
29	D1	1038	C
29	D1	1062	A
29	D1	1063	G
29	D1	1076	C
29	D1	1102	A
29	D1	1103	A
29	D1	1130	A
29	D1	1139	G
29	D1	1143	A
29	D1	1144	U
29	D1	1152	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1154	A
29	D1	1157	G
29	D1	1159	A
29	D1	1167	U
29	D1	1197	A
29	D1	1207	G
29	D1	1213	G
29	D1	1221	A
29	D1	1225	A
29	D1	1226	G
29	D1	1235	U
29	D1	1264	G
29	D1	1272	C
29	D1	1286	A
29	D1	1288	U
29	D1	1289	G
29	D1	1291	A
29	D1	1294	A
29	D1	1296	C
29	D1	1306	G
29	D1	1307	G
29	D1	1317	A
29	D1	1329	U
29	D1	1331	U
29	D1	1367	G
29	D1	1389	G
29	D1	1398	U
29	D1	1428	A
29	D1	1442	U
29	D1	1454	A
29	D1	1468	A
29	D1	1469	C
29	D1	1478	C
29	D1	1482	A
29	D1	1483	G
29	D1	1484	U
29	D1	1503	A
29	D1	1504	A
29	D1	1505	C
29	D1	1520	G
29	D1	1524	A
29	D1	1588	A

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	1607	U
29	D1	1627	U
29	D1	1640	G
29	D1	1646	G
29	D1	1654	A
29	D1	1685	C
29	D1	1686	U
29	D1	1716	U
29	D1	1728	G
29	D1	1779	C
29	D1	1780	G
29	D1	1793	C
29	D1	1795	U
29	D1	1808	G
29	D1	1876	U
29	D1	1877	U
29	D1	1912	U
29	D1	2105	G
29	D1	2112	U
29	D1	2147	A
29	D1	2148	U
29	D1	2151	C
29	D1	2193	U
29	D1	2211	U
29	D1	2251	G
29	D1	2254	U
29	D1	2255	A
29	D1	2270	A
29	D1	2280	A
29	D1	2281	A
29	D1	2290	C
29	D1	2297	U
29	D1	2372	A
29	D1	2385	G
29	D1	2400	G
29	D1	2403	G
29	D1	2404	A
29	D1	2414	G
29	D1	2423	U
29	D1	2487	U
29	D1	2501	U
29	D1	2513	U

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	2516	U
29	D1	2522	G
29	D1	2523	A
29	D1	2549	G
29	D1	2555	G
29	D1	2580	A
29	D1	2593	A
29	D1	2618	G
29	D1	2652	U
29	D1	2684	C
29	D1	2699	G
29	D1	2707	C
29	D1	2717	U
29	D1	2727	A
29	D1	2728	G
29	D1	2779	A
29	D1	2799	A
29	D1	2804	A
29	D1	2805	G
29	D1	2817	A
29	D1	2834	G
29	D1	2850	G
29	D1	2851	A
29	D1	2859	U
29	D1	2872	A
29	D1	2896	A
29	D1	2898	G
29	D1	2900	A
29	D1	2917	G
29	D1	2948	C
29	D1	2987	A
29	D1	2996	U
29	D1	2997	G
29	D1	2998	U
29	D1	2999	U
29	D1	3002	C
29	D1	3013	U
29	D1	3023	U
29	D1	3024	A
29	D1	3030	G
29	D1	3038	U
29	D1	3045	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
29	D1	3047	U
29	D1	3058	U
29	D1	3059	G
29	D1	3071	U
29	D1	3078	U
29	D1	3090	U
29	D1	3093	C
29	D1	3097	C
29	D1	3098	G
29	D1	3099	C
29	D1	3102	G
29	D1	3108	G
29	D1	3121	U
29	D1	3137	C
29	D1	3139	A
29	D1	3143	C
29	D1	3144	G
29	D1	3151	U
29	D1	3152	U
29	D1	3168	A
29	D1	3171	U
29	D1	3173	G
29	D1	3179	U
29	D1	3180	A
29	D1	3204	C
29	D1	3205	G
29	D1	3211	C
29	D1	3257	C
29	D1	3268	A
29	D1	3274	A
29	D1	3290	G
29	D1	3291	G
29	D1	3299	A
29	D1	3303	G
29	D1	3313	U
29	D1	3316	A
29	D1	3328	G
29	D1	3331	U
29	D1	3332	U
29	D1	3351	U
29	D1	3356	G
29	D1	3377	G

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
30	D2	12	U
30	D2	13	A
30	D2	14	U
30	D2	26	C
30	D2	35	C
30	D2	38	U
30	D2	55	A
30	D2	62	U
30	D2	64	A
30	D2	77	G
30	D2	92	A
30	D2	109	G
31	D3	22	U
31	D3	40	A
31	D3	70	G
31	D3	71	A
31	D3	76	C
31	D3	94	C
31	D3	106	C
31	D3	111	A
31	D3	113	U

## 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

715 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	A1	1988	-	0,6,6	0.00	-	-		
74	OHX	D1	3461	-	0,6,6	0.00	-	-		
74	OHX	D1	3517	-	0,6,6	0.00	-	-		
74	OHX	A1	1998	-	0,6,6	0.00	-	-		
74	OHX	C1	1943	-	0,6,6	0.00	-	-		
74	OHX	C1	1993	-	0,6,6	0.00	-	-		
74	OHX	D1	3582	-	0,6,6	0.00	-	-		
74	OHX	D1	3595	-	0,6,6	0.00	-	-		
74	OHX	C1	1918	-	0,6,6	0.00	-	-		
74	OHX	B1	3416	-	0,6,6	0.00	-	-		
74	OHX	D1	3460	-	0,6,6	0.00	-	-		
74	OHX	B1	3535	-	0,6,6	0.00	-	-		
74	OHX	D1	3609	-	0,6,6	0.00	-	-		
74	OHX	D1	3514	-	0,6,6	0.00	-	-		
74	OHX	D1	3402	-	0,6,6	0.00	-	-		
74	OHX	A1	1910	-	0,6,6	0.00	-	-		
74	OHX	C1	1977	-	0,6,6	0.00	-	-		
74	OHX	C1	1922	-	0,6,6	0.00	-	-		
74	OHX	B1	3472	-	0,6,6	0.00	-	-		
74	OHX	D1	3597	-	0,6,6	0.00	-	-		
74	OHX	D1	3598	-	0,6,6	0.00	-	-		
74	OHX	A1	1950	-	0,6,6	0.00	-	-		
74	OHX	B1	3465	-	0,6,6	0.00	-	-		
74	OHX	B1	3492	-	0,6,6	0.00	-	-		
74	OHX	A1	1913	-	0,6,6	0.00	-	-		
74	OHX	B1	3407	-	0,6,6	0.00	-	-		
74	OHX	B1	3529	-	0,6,6	0.00	-	-		
74	OHX	B1	3532	-	0,6,6	0.00	-	-		
74	OHX	A1	2001	-	0,6,6	0.00	-	-		
74	OHX	DT	201	-	0,6,6	0.00	-	-		
74	OHX	A1	1912	-	0,6,6	0.00	-	-		
74	OHX	B1	3526	-	0,6,6	0.00	-	-		
74	OHX	D3	209	-	0,6,6	0.00	-	-		
74	OHX	C1	1946	-	0,6,6	0.00	-	-		
74	OHX	B1	3584	-	0,6,6	0.00	-	-		
74	OHX	D1	3606	-	0,6,6	0.00	-	-		
74	OHX	D1	3497	-	0,6,6	0.00	-	-		
74	OHX	Ac	100	-	0,6,6	0.00	-	-		
74	OHX	D1	3620	-	0,6,6	0.00	-	-		
74	OHX	B3	210	-	0,6,6	0.00	-	-		
74	OHX	D3	211	-	0,6,6	0.00	-	-		
74	OHX	B1	3588	-	0,6,6	0.00	-	-		
74	OHX	B1	3554	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	B3	206	-	0,6,6	0.00	-	-		
74	OHX	D1	3504	-	0,6,6	0.00	-	-		
74	OHX	A1	1924	-	0,6,6	0.00	-	-		
74	OHX	B1	3475	-	0,6,6	0.00	-	-		
74	OHX	D1	3536	-	0,6,6	0.00	-	-		
74	OHX	B3	204	-	0,6,6	0.00	-	-		
74	OHX	D1	3502	-	0,6,6	0.00	-	-		
74	OHX	C1	1915	-	0,6,6	0.00	-	-		
74	OHX	C1	1928	-	0,6,6	0.00	-	-		
74	OHX	B1	3575	-	0,6,6	0.00	-	-		
74	OHX	A1	1967	-	0,6,6	0.00	-	-		
74	OHX	B1	3459	-	0,6,6	0.00	-	-		
74	OHX	C1	1934	-	0,6,6	0.00	-	-		
74	OHX	D1	3592	-	0,6,6	0.00	-	-		
74	OHX	B1	3490	-	0,6,6	0.00	-	-		
74	OHX	B1	3615	-	0,6,6	0.00	-	-		
74	OHX	D1	3485	-	0,6,6	0.00	-	-		
74	OHX	B1	3421	-	0,6,6	0.00	-	-		
74	OHX	D1	3499	-	0,6,6	0.00	-	-		
74	OHX	C1	1992	-	0,6,6	0.00	-	-		
74	OHX	A1	1985	-	0,6,6	0.00	-	-		
74	OHX	D1	3534	-	0,6,6	0.00	-	-		
74	OHX	B1	3499	-	0,6,6	0.00	-	-		
74	OHX	D1	3474	-	0,6,6	0.00	-	-		
74	OHX	C1	1979	-	0,6,6	0.00	-	-		
74	OHX	B1	3463	-	0,6,6	0.00	-	-		
74	OHX	AL	201	-	0,6,6	0.00	-	-		
74	OHX	A1	1938	-	0,6,6	0.00	-	-		
74	OHX	D1	3583	-	0,6,6	0.00	-	-		
74	OHX	A1	1953	-	0,6,6	0.00	-	-		
74	OHX	A1	1927	-	0,6,6	0.00	-	-		
74	OHX	D1	3550	-	0,6,6	0.00	-	-		
74	OHX	A1	1901	-	0,6,6	0.00	-	-		
74	OHX	D1	3581	-	0,6,6	0.00	-	-		
74	OHX	C1	1964	-	0,6,6	0.00	-	-		
74	OHX	C1	1994	-	0,6,6	0.00	-	-		
74	OHX	C1	1957	-	0,6,6	0.00	-	-		
74	OHX	D1	3542	-	0,6,6	0.00	-	-		
74	OHX	B1	3564	-	0,6,6	0.00	-	-		
74	OHX	B1	3446	-	0,6,6	0.00	-	-		
74	OHX	B3	201	-	0,6,6	0.00	-	-		
74	OHX	B1	3477	-	0,6,6	0.00	-	-		
74	OHX	D1	3563	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	B1	3402	-	0,6,6	0.00	-	-		
74	OHX	D1	3575	-	0,6,6	0.00	-	-		
74	OHX	B1	3570	-	0,6,6	0.00	-	-		
74	OHX	D1	3463	-	0,6,6	0.00	-	-		
74	OHX	D1	3437	-	0,6,6	0.00	-	-		
74	OHX	B1	3571	-	0,6,6	0.00	-	-		
74	OHX	D1	3530	-	0,6,6	0.00	-	-		
74	OHX	B1	3509	-	0,6,6	0.00	-	-		
74	OHX	D2	204	-	0,6,6	0.00	-	-		
74	OHX	D1	3546	-	0,6,6	0.00	-	-		
74	OHX	B1	3408	-	0,6,6	0.00	-	-		
74	OHX	D1	3494	-	0,6,6	0.00	-	-		
74	OHX	D3	201	-	0,6,6	0.00	-	-		
74	OHX	B1	3428	-	0,6,6	0.00	-	-		
74	OHX	B1	3511	-	0,6,6	0.00	-	-		
74	OHX	C1	1905	-	0,6,6	0.00	-	-		
74	OHX	BO	301	-	0,6,6	0.00	-	-		
74	OHX	B1	3619	-	0,6,6	0.00	-	-		
74	OHX	D1	3452	-	0,6,6	0.00	-	-		
74	OHX	B3	209	-	0,6,6	0.00	-	-		
74	OHX	B1	3443	-	0,6,6	0.00	-	-		
74	OHX	D1	3445	-	0,6,6	0.00	-	-		
74	OHX	D1	3436	-	0,6,6	0.00	-	-		
74	OHX	B1	3486	-	0,6,6	0.00	-	-		
74	OHX	C1	1950	-	0,6,6	0.00	-	-		
74	OHX	B3	212	-	0,6,6	0.00	-	-		
74	OHX	B1	3444	-	0,6,6	0.00	-	-		
74	OHX	A1	1962	-	0,6,6	0.00	-	-		
74	OHX	C1	1931	-	0,6,6	0.00	-	-		
74	OHX	B1	3420	-	0,6,6	0.00	-	-		
74	OHX	B1	3437	-	0,6,6	0.00	-	-		
74	OHX	B1	3621	-	0,6,6	0.00	-	-		
74	OHX	B1	3467	-	0,6,6	0.00	-	-		
74	OHX	B1	3519	-	0,6,6	0.00	-	-		
74	OHX	D1	3509	-	0,6,6	0.00	-	-		
74	OHX	B1	3508	-	0,6,6	0.00	-	-		
74	OHX	D1	3466	-	0,6,6	0.00	-	-		
74	OHX	D1	3467	-	0,6,6	0.00	-	-		
74	OHX	B1	3579	-	0,6,6	0.00	-	-		
74	OHX	D1	3508	-	0,6,6	0.00	-	-		
74	OHX	C1	1945	-	0,6,6	0.00	-	-		
74	OHX	D1	3574	-	0,6,6	0.00	-	-		
74	OHX	B1	3586	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	A1	1968	-	0,6,6	0.00	-	-		
74	OHX	B1	3470	-	0,6,6	0.00	-	-		
74	OHX	B1	3613	-	0,6,6	0.00	-	-		
74	OHX	A1	1916	-	0,6,6	0.00	-	-		
74	OHX	B1	3404	-	0,6,6	0.00	-	-		
74	OHX	B1	3431	-	0,6,6	0.00	-	-		
74	OHX	A1	1903	-	0,6,6	0.00	-	-		
74	OHX	B1	3597	-	0,6,6	0.00	-	-		
74	OHX	C1	1999	-	0,6,6	0.00	-	-		
74	OHX	C1	1907	-	0,6,6	0.00	-	-		
74	OHX	B1	3592	-	0,6,6	0.00	-	-		
74	OHX	C1	1983	1	0,6,6	0.00	-	-		
74	OHX	D1	3594	-	0,6,6	0.00	-	-		
74	OHX	D1	3490	-	0,6,6	0.00	-	-		
74	OHX	B1	3561	-	0,6,6	0.00	-	-		
74	OHX	B3	211	-	0,6,6	0.00	-	-		
74	OHX	A1	1918	-	0,6,6	0.00	-	-		
74	OHX	B1	3540	-	0,6,6	0.00	-	-		
74	OHX	B1	3533	-	0,6,6	0.00	-	-		
74	OHX	B1	3541	-	0,6,6	0.00	-	-		
74	OHX	B1	3595	-	0,6,6	0.00	-	-		
74	OHX	C1	1962	-	0,6,6	0.00	-	-		
74	OHX	D3	202	-	0,6,6	0.00	-	-		
74	OHX	C1	1914	-	0,6,6	0.00	-	-		
74	OHX	D1	3559	-	0,6,6	0.00	-	-		
74	OHX	B2	208	-	0,6,6	0.00	-	-		
74	OHX	B1	3593	-	0,6,6	0.00	-	-		
74	OHX	A1	1923	-	0,6,6	0.00	-	-		
74	OHX	B1	3409	-	0,6,6	0.00	-	-		
74	OHX	D1	3519	-	0,6,6	0.00	-	-		
74	OHX	B1	3569	-	0,6,6	0.00	-	-		
74	OHX	B1	3558	-	0,6,6	0.00	-	-		
74	OHX	A1	1925	-	0,6,6	0.00	-	-		
74	OHX	D1	3420	-	0,6,6	0.00	-	-		
74	OHX	D1	3616	-	0,6,6	0.00	-	-		
74	OHX	B1	3605	-	0,6,6	0.00	-	-		
74	OHX	A1	1982	-	0,6,6	0.00	-	-		
74	OHX	D1	3568	-	0,6,6	0.00	-	-		
74	OHX	A1	1931	1	0,6,6	0.00	-	-		
74	OHX	D1	3540	-	0,6,6	0.00	-	-		
74	OHX	D1	3457	-	0,6,6	0.00	-	-		
74	OHX	D1	3403	-	0,6,6	0.00	-	-		
74	OHX	B1	3484	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	A1	1915	-	0,6,6	0.00	-	-		
74	OHX	C1	1982	-	0,6,6	0.00	-	-		
74	OHX	C1	1969	-	0,6,6	0.00	-	-		
74	OHX	D1	3422	-	0,6,6	0.00	-	-		
74	OHX	A1	1961	-	0,6,6	0.00	-	-		
74	OHX	D1	3614	-	0,6,6	0.00	-	-		
74	OHX	B1	3464	-	0,6,6	0.00	-	-		
74	OHX	B1	3497	-	0,6,6	0.00	-	-		
74	OHX	B1	3438	-	0,6,6	0.00	-	-		
74	OHX	D1	3556	-	0,6,6	0.00	-	-		
74	OHX	B1	3566	-	0,6,6	0.00	-	-		
74	OHX	B1	3563	-	0,6,6	0.00	-	-		
74	OHX	A1	1983	-	0,6,6	0.00	-	-		
74	OHX	C1	1944	-	0,6,6	0.00	-	-		
74	OHX	B1	3495	-	0,6,6	0.00	-	-		
74	OHX	A1	1909	-	0,6,6	0.00	-	-		
74	OHX	D1	3573	-	0,6,6	0.00	-	-		
74	OHX	B1	3527	-	0,6,6	0.00	-	-		
74	OHX	D1	3458	-	0,6,6	0.00	-	-		
74	OHX	D1	3442	-	0,6,6	0.00	-	-		
74	OHX	B1	3427	-	0,6,6	0.00	-	-		
74	OHX	C1	1908	-	0,6,6	0.00	-	-		
74	OHX	B1	3581	-	0,6,6	0.00	-	-		
74	OHX	D1	3476	-	0,6,6	0.00	-	-		
74	OHX	DO	301	-	0,6,6	0.00	-	-		
74	OHX	D1	3547	-	0,6,6	0.00	-	-		
74	OHX	D1	3623	-	0,6,6	0.00	-	-		
74	OHX	C1	1949	-	0,6,6	0.00	-	-		
74	OHX	D1	3408	-	0,6,6	0.00	-	-		
74	OHX	B1	3555	-	0,6,6	0.00	-	-		
74	OHX	D3	212	-	0,6,6	0.00	-	-		
74	OHX	B1	3544	-	0,6,6	0.00	-	-		
74	OHX	D1	3545	-	0,6,6	0.00	-	-		
74	OHX	D1	3544	-	0,6,6	0.00	-	-		
74	OHX	D1	3411	-	0,6,6	0.00	-	-		
74	OHX	C1	1989	-	0,6,6	0.00	-	-		
74	OHX	B1	3403	-	0,6,6	0.00	-	-		
74	OHX	B1	3608	-	0,6,6	0.00	-	-		
74	OHX	A1	1934	-	0,6,6	0.00	-	-		
74	OHX	B1	3412	-	0,6,6	0.00	-	-		
74	OHX	A1	1957	-	0,6,6	0.00	-	-		
74	OHX	B1	3418	-	0,6,6	0.00	-	-		
74	OHX	D1	3503	-	0,6,6	0.00	-	-		



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	D2	202	-	0,6,6	0.00	-	-		
74	OHX	B1	3523	-	0,6,6	0.00	-	-		
74	OHX	B1	3473	-	0,6,6	0.00	-	-		
74	OHX	C1	1990	-	0,6,6	0.00	-	-		
74	OHX	B1	3574	-	0,6,6	0.00	-	-		
74	OHX	D1	3611	-	0,6,6	0.00	-	-		
74	OHX	D1	3481	-	0,6,6	0.00	-	-		
74	OHX	B1	3596	-	0,6,6	0.00	-	-		
74	OHX	D1	3435	-	0,6,6	0.00	-	-		
74	OHX	B1	3454	-	0,6,6	0.00	-	-		
74	OHX	B3	203	-	0,6,6	0.00	-	-		
74	OHX	B1	3510	-	0,6,6	0.00	-	-		
74	OHX	Bg	101	-	0,6,6	0.00	-	-		
74	OHX	B1	3424	-	0,6,6	0.00	-	-		
74	OHX	C1	1976	-	0,6,6	0.00	-	-		
74	OHX	B1	3618	-	0,6,6	0.00	-	-		
74	OHX	A1	1954	-	0,6,6	0.00	-	-		
74	OHX	A1	1951	-	0,6,6	0.00	-	-		
74	OHX	B1	3557	-	0,6,6	0.00	-	-		
74	OHX	D1	3475	-	0,6,6	0.00	-	-		
74	OHX	B1	3479	-	0,6,6	0.00	-	-		
74	OHX	B1	3466	-	0,6,6	0.00	-	-		
74	OHX	B1	3415	-	0,6,6	0.00	-	-		
74	OHX	C1	1958	-	0,6,6	0.00	-	-		
74	OHX	CS	101	-	0,6,6	0.00	-	-		
74	OHX	C1	1951	-	0,6,6	0.00	-	-		
74	OHX	D1	3486	-	0,6,6	0.00	-	-		
74	OHX	D1	3410	-	0,6,6	0.00	-	-		
74	OHX	D1	3580	-	0,6,6	0.00	-	-		
74	OHX	B1	3493	-	0,6,6	0.00	-	-		
74	OHX	A1	1993	-	0,6,6	0.00	-	-		
74	OHX	C1	1910	-	0,6,6	0.00	-	-		
74	OHX	B1	3602	-	0,6,6	0.00	-	-		
74	OHX	D1	3450	-	0,6,6	0.00	-	-		
74	OHX	D1	3587	-	0,6,6	0.00	-	-		
74	OHX	AS	101	-	0,6,6	0.00	-	-		
74	OHX	D1	3529	-	0,6,6	0.00	-	-		
74	OHX	D1	3562	-	0,6,6	0.00	-	-		
74	OHX	B1	3515	-	0,6,6	0.00	-	-		
74	OHX	D1	3537	-	0,6,6	0.00	-	-		
74	OHX	B1	3513	-	0,6,6	0.00	-	-		
74	OHX	B1	3552	-	0,6,6	0.00	-	-		
74	OHX	D1	3493	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	A1	1908	-	0,6,6	0.00	-	-		
74	OHX	D1	3428	-	0,6,6	0.00	-	-		
74	OHX	C1	1906	-	0,6,6	0.00	-	-		
74	OHX	D1	3524	-	0,6,6	0.00	-	-		
74	OHX	B1	3612	-	0,6,6	0.00	-	-		
74	OHX	B3	205	-	0,6,6	0.00	-	-		
74	OHX	C1	1923	-	0,6,6	0.00	-	-		
74	OHX	C1	1929	-	0,6,6	0.00	-	-		
74	OHX	D2	201	-	0,6,6	0.00	-	-		
74	OHX	B1	3539	-	0,6,6	0.00	-	-		
74	OHX	B1	3599	-	0,6,6	0.00	-	-		
74	OHX	D1	3554	-	0,6,6	0.00	-	-		
74	OHX	D1	3487	-	0,6,6	0.00	-	-		
74	OHX	B1	3568	-	0,6,6	0.00	-	-		
74	OHX	D1	3423	-	0,6,6	0.00	-	-		
74	OHX	D1	3495	-	0,6,6	0.00	-	-		
74	OHX	B1	3547	-	0,6,6	0.00	-	-		
74	OHX	B1	3429	-	0,6,6	0.00	-	-		
74	OHX	A1	1999	-	0,6,6	0.00	-	-		
74	OHX	C1	1920	-	0,6,6	0.00	-	-		
74	OHX	AT	401	-	0,6,6	0.00	-	-		
74	OHX	C1	1973	-	0,6,6	0.00	-	-		
74	OHX	C1	1988	-	0,6,6	0.00	-	-		
74	OHX	B1	3401	-	0,6,6	0.00	-	-		
74	OHX	D1	3414	-	0,6,6	0.00	-	-		
74	OHX	B1	3583	-	0,6,6	0.00	-	-		
74	OHX	B1	3504	-	0,6,6	0.00	-	-		
74	OHX	D1	3603	-	0,6,6	0.00	-	-		
74	OHX	DC	401	-	0,6,6	0.00	-	-		
74	OHX	C1	1995	-	0,6,6	0.00	-	-		
74	OHX	C1	1985	-	0,6,6	0.00	-	-		
74	OHX	B1	3518	-	0,6,6	0.00	-	-		
74	OHX	C1	1912	-	0,6,6	0.00	-	-		
74	OHX	C1	1933	-	0,6,6	0.00	-	-		
74	OHX	B1	3440	-	0,6,6	0.00	-	-		
74	OHX	B1	3439	-	0,6,6	0.00	-	-		
74	OHX	B1	3524	-	0,6,6	0.00	-	-		
74	OHX	B1	3471	-	0,6,6	0.00	-	-		
74	OHX	A1	1940	-	0,6,6	0.00	-	-		
74	OHX	B1	3531	-	0,6,6	0.00	-	-		
74	OHX	A1	1926	-	0,6,6	0.00	-	-		
74	OHX	D1	3527	-	0,6,6	0.00	-	-		
74	OHX	D3	206	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	D1	3449	-	0,6,6	0.00	-	-		
74	OHX	B1	3590	-	0,6,6	0.00	-	-		
74	OHX	D1	3558	-	0,6,6	0.00	-	-		
74	OHX	B1	3517	-	0,6,6	0.00	-	-		
74	OHX	D1	3492	-	0,6,6	0.00	-	-		
74	OHX	D1	3593	-	0,6,6	0.00	-	-		
74	OHX	D1	3596	-	0,6,6	0.00	-	-		
74	OHX	A1	1970	-	0,6,6	0.00	-	-		
74	OHX	D1	3479	-	0,6,6	0.00	-	-		
74	OHX	D1	3477	-	0,6,6	0.00	-	-		
74	OHX	D1	3617	-	0,6,6	0.00	-	-		
74	OHX	B1	3507	-	0,6,6	0.00	-	-		
74	OHX	A1	1946	-	0,6,6	0.00	-	-		
74	OHX	B1	3496	-	0,6,6	0.00	-	-		
74	OHX	C1	1909	-	0,6,6	0.00	-	-		
74	OHX	B1	3458	-	0,6,6	0.00	-	-		
74	OHX	C1	1948	-	0,6,6	0.00	-	-		
74	OHX	D3	205	-	0,6,6	0.00	-	-		
74	OHX	B1	3617	-	0,6,6	0.00	-	-		
74	OHX	D1	3434	-	0,6,6	0.00	-	-		
74	OHX	D1	3471	-	0,6,6	0.00	-	-		
74	OHX	B1	3545	-	0,6,6	0.00	-	-		
74	OHX	D1	3591	-	0,6,6	0.00	-	-		
74	OHX	D1	3444	-	0,6,6	0.00	-	-		
74	OHX	Dd	101	-	0,6,6	0.00	-	-		
74	OHX	C1	1986	-	0,6,6	0.00	-	-		
74	OHX	A1	1995	-	0,6,6	0.00	-	-		
74	OHX	B1	3609	-	0,6,6	0.00	-	-		
74	OHX	D1	3539	-	0,6,6	0.00	-	-		
74	OHX	D1	3576	-	0,6,6	0.00	-	-		
74	OHX	B2	202	-	0,6,6	0.00	-	-		
74	OHX	B1	3600	-	0,6,6	0.00	-	-		
74	OHX	C1	1936	-	0,6,6	0.00	-	-		
74	OHX	B1	3543	-	0,6,6	0.00	-	-		
74	OHX	C1	1961	-	0,6,6	0.00	-	-		
74	OHX	A1	1929	-	0,6,6	0.00	-	-		
74	OHX	D1	3585	-	0,6,6	0.00	-	-		
74	OHX	D1	3555	-	0,6,6	0.00	-	-		
74	OHX	D1	3440	-	0,6,6	0.00	-	-		
74	OHX	C1	1981	-	0,6,6	0.00	-	-		
74	OHX	D1	3417	-	0,6,6	0.00	-	-		
74	OHX	D1	3526	-	0,6,6	0.00	-	-		
74	OHX	C1	1966	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	D1	3404	-	0,6,6	0.00	-	-		
74	OHX	C1	1919	-	0,6,6	0.00	-	-		
74	OHX	B1	3620	-	0,6,6	0.00	-	-		
74	OHX	B1	3426	-	0,6,6	0.00	-	-		
74	OHX	B1	3559	-	0,6,6	0.00	-	-		
74	OHX	D1	3430	-	0,6,6	0.00	-	-		
74	OHX	A1	2002	-	0,6,6	0.00	-	-		
74	OHX	A1	1966	-	0,6,6	0.00	-	-		
74	OHX	C1	1971	-	0,6,6	0.00	-	-		
74	OHX	BC	401	-	0,6,6	0.00	-	-		
74	OHX	B1	3417	-	0,6,6	0.00	-	-		
74	OHX	A1	1917	-	0,6,6	0.00	-	-		
74	OHX	B1	3434	-	0,6,6	0.00	-	-		
74	OHX	Dg	101	-	0,6,6	0.00	-	-		
74	OHX	C1	1952	-	0,6,6	0.00	-	-		
74	OHX	A1	1981	-	0,6,6	0.00	-	-		
74	OHX	D3	208	-	0,6,6	0.00	-	-		
74	OHX	D1	3465	-	0,6,6	0.00	-	-		
74	OHX	A1	1971	-	0,6,6	0.00	-	-		
74	OHX	Bd	101	-	0,6,6	0.00	-	-		
74	OHX	C1	1996	-	0,6,6	0.00	-	-		
74	OHX	A1	1986	-	0,6,6	0.00	-	-		
74	OHX	A1	1960	-	0,6,6	0.00	-	-		
74	OHX	D2	208	-	0,6,6	0.00	-	-		
74	OHX	A1	1932	-	0,6,6	0.00	-	-		
74	OHX	D1	3418	-	0,6,6	0.00	-	-		
74	OHX	D1	3412	-	0,6,6	0.00	-	-		
74	OHX	C1	1970	-	0,6,6	0.00	-	-		
74	OHX	B1	3414	-	0,6,6	0.00	-	-		
74	OHX	B1	3567	-	0,6,6	0.00	-	-		
74	OHX	C1	1967	-	0,6,6	0.00	-	-		
74	OHX	D1	3624	-	0,6,6	0.00	-	-		
74	OHX	D1	3600	-	0,6,6	0.00	-	-		
74	OHX	B1	3445	-	0,6,6	0.00	-	-		
74	OHX	Bd	102	-	0,6,6	0.00	-	-		
74	OHX	B1	3548	-	0,6,6	0.00	-	-		
74	OHX	B1	3565	-	0,6,6	0.00	-	-		
74	OHX	C1	1987	-	0,6,6	0.00	-	-		
74	OHX	D1	3415	-	0,6,6	0.00	-	-		
74	OHX	D1	3489	-	0,6,6	0.00	-	-		
74	OHX	A1	1919	-	0,6,6	0.00	-	-		
74	OHX	C1	1930	1	0,6,6	0.00	-	-		
74	OHX	A1	1945	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	D1	3549	-	0,6,6	0.00	-	-		
74	OHX	D2	207	-	0,6,6	0.00	-	-		
74	OHX	B1	3538	-	0,6,6	0.00	-	-		
74	OHX	B1	3432	-	0,6,6	0.00	-	-		
74	OHX	D1	3584	-	0,6,6	0.00	-	-		
74	OHX	D1	3409	-	0,6,6	0.00	-	-		
74	OHX	A1	1904	-	0,6,6	0.00	-	-		
74	OHX	B1	3480	-	0,6,6	0.00	-	-		
74	OHX	D1	3541	-	0,6,6	0.00	-	-		
74	OHX	D1	3431	-	0,6,6	0.00	-	-		
74	OHX	A1	1987	-	0,6,6	0.00	-	-		
74	OHX	D1	3528	-	0,6,6	0.00	-	-		
74	OHX	D1	3566	-	0,6,6	0.00	-	-		
74	OHX	C1	2000	-	0,6,6	0.00	-	-		
74	OHX	C1	1925	-	0,6,6	0.00	-	-		
74	OHX	B1	3580	-	0,6,6	0.00	-	-		
74	OHX	B2	206	-	0,6,6	0.00	-	-		
74	OHX	C1	1997	-	0,6,6	0.00	-	-		
74	OHX	C1	1939	-	0,6,6	0.00	-	-		
74	OHX	D1	3531	-	0,6,6	0.00	-	-		
74	OHX	A1	1930	-	0,6,6	0.00	-	-		
74	OHX	D3	210	-	0,6,6	0.00	-	-		
74	OHX	D1	3454	-	0,6,6	0.00	-	-		
74	OHX	D1	3512	-	0,6,6	0.00	-	-		
74	OHX	C1	1978	-	0,6,6	0.00	-	-		
74	OHX	B3	202	-	0,6,6	0.00	-	-		
74	OHX	C1	1901	-	0,6,6	0.00	-	-		
74	OHX	C1	1984	-	0,6,6	0.00	-	-		
74	OHX	A1	1939	-	0,6,6	0.00	-	-		
74	OHX	D1	3478	-	0,6,6	0.00	-	-		
74	OHX	B2	204	-	0,6,6	0.00	-	-		
74	OHX	B1	3462	-	0,6,6	0.00	-	-		
74	OHX	C1	1941	-	0,6,6	0.00	-	-		
74	OHX	D1	3484	-	0,6,6	0.00	-	-		
74	OHX	B1	3498	-	0,6,6	0.00	-	-		
74	OHX	B1	3483	-	0,6,6	0.00	-	-		
74	OHX	B1	3522	-	0,6,6	0.00	-	-		
74	OHX	B1	3528	-	0,6,6	0.00	-	-		
74	OHX	D1	3625	-	0,6,6	0.00	-	-		
74	OHX	B1	3501	-	0,6,6	0.00	-	-		
74	OHX	CI	201	-	0,6,6	0.00	-	-		
74	OHX	D1	3618	-	0,6,6	0.00	-	-		
74	OHX	D1	3571	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	D1	3483	-	0,6,6	0.00	-	-		
74	OHX	A1	2000	-	0,6,6	0.00	-	-		
74	OHX	D1	3607	-	0,6,6	0.00	-	-		
74	OHX	C1	1980	-	0,6,6	0.00	-	-		
74	OHX	B1	3476	-	0,6,6	0.00	-	-		
74	OHX	D1	3491	-	0,6,6	0.00	-	-		
74	OHX	C1	1955	-	0,6,6	0.00	-	-		
74	OHX	B2	207	-	0,6,6	0.00	-	-		
74	OHX	B1	3419	-	0,6,6	0.00	-	-		
74	OHX	B1	3453	-	0,6,6	0.00	-	-		
74	OHX	C1	1963	-	0,6,6	0.00	-	-		
74	OHX	D1	3522	-	0,6,6	0.00	-	-		
74	OHX	C1	1954	-	0,6,6	0.00	-	-		
74	OHX	D1	3447	-	0,6,6	0.00	-	-		
74	OHX	A1	1952	-	0,6,6	0.00	-	-		
74	OHX	D1	3543	-	0,6,6	0.00	-	-		
74	OHX	D1	3469	-	0,6,6	0.00	-	-		
74	OHX	D1	3446	-	0,6,6	0.00	-	-		
74	OHX	D2	203	-	0,6,6	0.00	-	-		
74	OHX	B1	3591	-	0,6,6	0.00	-	-		
74	OHX	B1	3469	-	0,6,6	0.00	-	-		
74	OHX	B1	3512	-	0,6,6	0.00	-	-		
74	OHX	B1	3603	-	0,6,6	0.00	-	-		
74	OHX	A1	1980	-	0,6,6	0.00	-	-		
74	OHX	A1	1948	-	0,6,6	0.00	-	-		
74	OHX	A1	1956	-	0,6,6	0.00	-	-		
74	OHX	C1	1926	-	0,6,6	0.00	-	-		
74	OHX	D1	3588	-	0,6,6	0.00	-	-		
74	OHX	A1	1911	-	0,6,6	0.00	-	-		
74	OHX	B1	3406	-	0,6,6	0.00	-	-		
74	OHX	B1	3433	-	0,6,6	0.00	-	-		
74	OHX	D1	3416	-	0,6,6	0.00	-	-		
74	OHX	D1	3413	-	0,6,6	0.00	-	-		
74	OHX	B1	3546	-	0,6,6	0.00	-	-		
74	OHX	B1	3520	-	0,6,6	0.00	-	-		
74	OHX	D1	3453	-	0,6,6	0.00	-	-		
74	OHX	B2	210	-	0,6,6	0.00	-	-		
74	OHX	B1	3449	-	0,6,6	0.00	-	-		
74	OHX	D1	3552	-	0,6,6	0.00	-	-		
74	OHX	D1	3501	-	0,6,6	0.00	-	-		
74	OHX	D2	206	-	0,6,6	0.00	-	-		
74	OHX	B1	3451	-	0,6,6	0.00	-	-		
74	OHX	D1	3473	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	A1	1922	-	0,6,6	0.00	-	-		
74	OHX	DO	302	-	0,6,6	0.00	-	-		
74	OHX	B1	3413	-	0,6,6	0.00	-	-		
74	OHX	DJ	301	-	0,6,6	0.00	-	-		
74	OHX	C1	1927	-	0,6,6	0.00	-	-		
74	OHX	D1	3602	-	0,6,6	0.00	-	-		
74	OHX	A1	1978	-	0,6,6	0.00	-	-		
74	OHX	A1	1955	-	0,6,6	0.00	-	-		
74	OHX	A1	1907	-	0,6,6	0.00	-	-		
74	OHX	A1	1989	-	0,6,6	0.00	-	-		
74	OHX	B1	3585	-	0,6,6	0.00	-	-		
74	OHX	D1	3564	-	0,6,6	0.00	-	-		
74	OHX	D1	3427	-	0,6,6	0.00	-	-		
74	OHX	B1	3461	-	0,6,6	0.00	-	-		
74	OHX	D1	3464	-	0,6,6	0.00	-	-		
74	OHX	D1	3515	-	0,6,6	0.00	-	-		
74	OHX	B1	3577	-	0,6,6	0.00	-	-		
74	OHX	A1	1976	-	0,6,6	0.00	-	-		
74	OHX	D1	3621	-	0,6,6	0.00	-	-		
74	OHX	C1	1965	-	0,6,6	0.00	-	-		
74	OHX	D1	3456	-	0,6,6	0.00	-	-		
74	OHX	D1	3548	-	0,6,6	0.00	-	-		
74	OHX	C1	1917	-	0,6,6	0.00	-	-		
74	OHX	B1	3436	-	0,6,6	0.00	-	-		
74	OHX	D1	3516	-	0,6,6	0.00	-	-		
74	OHX	D1	3429	-	0,6,6	0.00	-	-		
74	OHX	C1	1932	-	0,6,6	0.00	-	-		
74	OHX	D1	3590	-	0,6,6	0.00	-	-		
74	OHX	C1	1959	-	0,6,6	0.00	-	-		
74	OHX	D1	3518	-	0,6,6	0.00	-	-		
74	OHX	B1	3530	-	0,6,6	0.00	-	-		
74	OHX	B1	3506	-	0,6,6	0.00	-	-		
74	OHX	D1	3523	-	0,6,6	0.00	-	-		
74	OHX	D1	3610	-	0,6,6	0.00	-	-		
74	OHX	D1	3615	-	0,6,6	0.00	-	-		
74	OHX	D1	3589	-	0,6,6	0.00	-	-		
74	OHX	C1	1975	-	0,6,6	0.00	-	-		
74	OHX	D1	3551	-	0,6,6	0.00	-	-		
74	OHX	A1	1947	-	0,6,6	0.00	-	-		
74	OHX	B1	3502	-	0,6,6	0.00	-	-		
74	OHX	B2	203	-	0,6,6	0.00	-	-		
74	OHX	D1	3513	-	0,6,6	0.00	-	-		
74	OHX	B1	3578	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	B1	3594	-	0,6,6	0.00	-	-		
74	OHX	B1	3452	-	0,6,6	0.00	-	-		
74	OHX	D1	3439	-	0,6,6	0.00	-	-		
74	OHX	B1	3435	-	0,6,6	0.00	-	-		
74	OHX	B1	3485	-	0,6,6	0.00	-	-		
74	OHX	D1	3612	-	0,6,6	0.00	-	-		
74	OHX	D1	3605	-	0,6,6	0.00	-	-		
74	OHX	A1	1975	-	0,6,6	0.00	-	-		
74	OHX	B2	209	-	0,6,6	0.00	-	-		
74	OHX	CS	102	-	0,6,6	0.00	-	-		
74	OHX	D1	3553	-	0,6,6	0.00	-	-		
74	OHX	D1	3421	-	0,6,6	0.00	-	-		
74	OHX	C1	1960	-	0,6,6	0.00	-	-		
74	OHX	A1	1996	-	0,6,6	0.00	-	-		
74	OHX	C1	1956	-	0,6,6	0.00	-	-		
74	OHX	C1	1903	-	0,6,6	0.00	-	-		
74	OHX	B1	3487	-	0,6,6	0.00	-	-		
74	OHX	C1	1953	-	0,6,6	0.00	-	-		
74	OHX	D1	3496	-	0,6,6	0.00	-	-		
74	OHX	B1	3606	-	0,6,6	0.00	-	-		
74	OHX	A1	1972	-	0,6,6	0.00	-	-		
74	OHX	A1	1991	-	0,6,6	0.00	-	-		
74	OHX	D1	3482	-	0,6,6	0.00	-	-		
74	OHX	B1	3481	-	0,6,6	0.00	-	-		
74	OHX	A1	1964	-	0,6,6	0.00	-	-		
74	OHX	B1	3604	-	0,6,6	0.00	-	-		
74	OHX	B1	3410	-	0,6,6	0.00	-	-		
74	OHX	B1	3549	-	0,6,6	0.00	-	-		
74	OHX	B1	3456	-	0,6,6	0.00	-	-		
74	OHX	D1	3448	-	0,6,6	0.00	-	-		
74	OHX	D1	3405	-	0,6,6	0.00	-	-		
74	OHX	B1	3556	-	0,6,6	0.00	-	-		
74	OHX	B1	3525	-	0,6,6	0.00	-	-		
74	OHX	B1	3457	-	0,6,6	0.00	-	-		
74	OHX	C1	1991	-	0,6,6	0.00	-	-		
74	OHX	D3	203	-	0,6,6	0.00	-	-		
74	OHX	B1	3491	-	0,6,6	0.00	-	-		
74	OHX	D1	3569	-	0,6,6	0.00	-	-		
74	OHX	D1	3572	-	0,6,6	0.00	-	-		
74	OHX	B1	3550	-	0,6,6	0.00	-	-		
74	OHX	A1	1941	-	0,6,6	0.00	-	-		
74	OHX	B1	3489	-	0,6,6	0.00	-	-		
74	OHX	D1	3520	-	0,6,6	0.00	-	-		



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	C1	1972	-	0,6,6	0.00	-	-		
74	OHX	A1	1920	-	0,6,6	0.00	-	-		
74	OHX	A1	1984	-	0,6,6	0.00	-	-		
74	OHX	D3	207	-	0,6,6	0.00	-	-		
74	OHX	D2	205	-	0,6,6	0.00	-	-		
74	OHX	D1	3472	-	0,6,6	0.00	-	-		
74	OHX	B1	3521	-	0,6,6	0.00	-	-		
74	OHX	D1	3451	-	0,6,6	0.00	-	-		
74	OHX	D1	3599	-	0,6,6	0.00	-	-		
74	OHX	B1	3576	-	0,6,6	0.00	-	-		
74	OHX	B1	3447	-	0,6,6	0.00	-	-		
74	OHX	BT	201	-	0,6,6	0.00	-	-		
74	OHX	A1	1943	-	0,6,6	0.00	-	-		
74	OHX	B1	3442	-	0,6,6	0.00	-	-		
74	OHX	C1	1998	-	0,6,6	0.00	-	-		
74	OHX	B1	3514	-	0,6,6	0.00	-	-		
74	OHX	A1	1937	-	0,6,6	0.00	-	-		
74	OHX	D1	3557	-	0,6,6	0.00	-	-		
74	OHX	D1	3608	-	0,6,6	0.00	-	-		
74	OHX	D1	3533	-	0,6,6	0.00	-	-		
74	OHX	D1	3419	-	0,6,6	0.00	-	-		
74	OHX	A1	1990	-	0,6,6	0.00	-	-		
74	OHX	A1	1935	-	0,6,6	0.00	-	-		
74	OHX	B1	3516	-	0,6,6	0.00	-	-		
74	OHX	C1	1911	-	0,6,6	0.00	-	-		
74	OHX	D1	3470	-	0,6,6	0.00	-	-		
74	OHX	B1	3601	-	0,6,6	0.00	-	-		
74	OHX	A1	1974	-	0,6,6	0.00	-	-		
74	OHX	D1	3424	-	0,6,6	0.00	-	-		
74	OHX	A1	1914	-	0,6,6	0.00	-	-		
74	OHX	D1	3488	-	0,6,6	0.00	-	-		
74	OHX	C1	1947	-	0,6,6	0.00	-	-		
74	OHX	D3	204	-	0,6,6	0.00	-	-		
74	OHX	Dd	102	-	0,6,6	0.00	-	-		
74	OHX	C1	1935	-	0,6,6	0.00	-	-		
74	OHX	A1	1906	-	0,6,6	0.00	-	-		
74	OHX	B1	3536	-	0,6,6	0.00	-	-		
74	OHX	B1	3542	-	0,6,6	0.00	-	-		
74	OHX	B1	3503	-	0,6,6	0.00	-	-		
74	OHX	C1	1940	-	0,6,6	0.00	-	-		
74	OHX	B1	3572	-	0,6,6	0.00	-	-		
74	OHX	A1	1921	-	0,6,6	0.00	-	-		
74	OHX	D1	3579	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	D1	3459	-	0,6,6	0.00	-	-		
74	OHX	B1	3573	-	0,6,6	0.00	-	-		
74	OHX	D1	3570	-	0,6,6	0.00	-	-		
74	OHX	B1	3505	-	0,6,6	0.00	-	-		
74	OHX	C1	1974	-	0,6,6	0.00	-	-		
74	OHX	A1	1905	-	0,6,6	0.00	-	-		
74	OHX	B1	3494	-	0,6,6	0.00	-	-		
74	OHX	B1	3450	-	0,6,6	0.00	-	-		
74	OHX	D1	3407	-	0,6,6	0.00	-	-		
74	OHX	D1	3511	-	0,6,6	0.00	-	-		
74	OHX	C1	1968	-	0,6,6	0.00	-	-		
74	OHX	A1	1965	-	0,6,6	0.00	-	-		
74	OHX	B1	3468	-	0,6,6	0.00	-	-		
74	OHX	A1	1977	-	0,6,6	0.00	-	-		
74	OHX	D2	209	-	0,6,6	0.00	-	-		
74	OHX	C1	2001	-	0,6,6	0.00	-	-		
74	OHX	D1	3500	-	0,6,6	0.00	-	-		
74	OHX	D1	3432	-	0,6,6	0.00	-	-		
74	OHX	D1	3433	-	0,6,6	0.00	-	-		
74	OHX	B1	3423	-	0,6,6	0.00	-	-		
74	OHX	B1	3534	-	0,6,6	0.00	-	-		
74	OHX	B1	3460	-	0,6,6	0.00	-	-		
74	OHX	A1	1933	-	0,6,6	0.00	-	-		
74	OHX	B1	3607	-	0,6,6	0.00	-	-		
74	OHX	A1	1944	-	0,6,6	0.00	-	-		
74	OHX	A1	1963	-	0,6,6	0.00	-	-		
74	OHX	A1	1928	-	0,6,6	0.00	-	-		
74	OHX	B1	3411	-	0,6,6	0.00	-	-		
74	OHX	D1	3561	-	0,6,6	0.00	-	-		
74	OHX	D1	3506	-	0,6,6	0.00	-	-		
74	OHX	D1	3401	-	0,6,6	0.00	-	-		
74	OHX	A1	1973	-	0,6,6	0.00	-	-		
74	OHX	C1	1916	-	0,6,6	0.00	-	-		
74	OHX	C1	1938	-	0,6,6	0.00	-	-		
74	OHX	D1	3441	-	0,6,6	0.00	-	-		
74	OHX	B1	3589	-	0,6,6	0.00	-	-		
74	OHX	B1	3562	-	0,6,6	0.00	-	-		
74	OHX	B1	3553	-	0,6,6	0.00	-	-		
74	OHX	D1	3567	-	0,6,6	0.00	-	-		
74	OHX	D1	3426	-	0,6,6	0.00	-	-		
74	OHX	A1	1994	-	0,6,6	0.00	-	-		
74	OHX	D1	3498	-	0,6,6	0.00	-	-		
74	OHX	D1	3578	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	C1	1924	-	0,6,6	0.00	-	-		
74	OHX	D1	3535	-	0,6,6	0.00	-	-		
74	OHX	B2	201	-	0,6,6	0.00	-	-		
74	OHX	B1	3478	-	0,6,6	0.00	-	-		
74	OHX	C1	1913	-	0,6,6	0.00	-	-		
74	OHX	A1	1959	-	0,6,6	0.00	-	-		
74	OHX	D1	3480	-	0,6,6	0.00	-	-		
74	OHX	D1	3525	-	0,6,6	0.00	-	-		
74	OHX	B3	207	-	0,6,6	0.00	-	-		
74	OHX	B3	208	-	0,6,6	0.00	-	-		
74	OHX	B1	3474	-	0,6,6	0.00	-	-		
74	OHX	D1	3521	-	0,6,6	0.00	-	-		
74	OHX	D1	3406	-	0,6,6	0.00	-	-		
74	OHX	B1	3448	-	0,6,6	0.00	-	-		
74	OHX	D1	3586	-	0,6,6	0.00	-	-		
74	OHX	C1	1921	-	0,6,6	0.00	-	-		
74	OHX	C1	1902	-	0,6,6	0.00	-	-		
74	OHX	C1	1937	-	0,6,6	0.00	-	-		
74	OHX	CT	401	-	0,6,6	0.00	-	-		
74	OHX	A1	1958	-	0,6,6	0.00	-	-		
74	OHX	A1	1979	-	0,6,6	0.00	-	-		
74	OHX	C1	1942	-	0,6,6	0.00	-	-		
74	OHX	A1	1902	-	0,6,6	0.00	-	-		
74	OHX	D1	3619	-	0,6,6	0.00	-	-		
74	OHX	D1	3505	-	0,6,6	0.00	-	-		
74	OHX	B1	3598	-	0,6,6	0.00	-	-		
74	OHX	D1	3604	-	0,6,6	0.00	-	-		
74	OHX	A1	1992	-	0,6,6	0.00	-	-		
74	OHX	D1	3622	-	0,6,6	0.00	-	-		
74	OHX	A1	1942	-	0,6,6	0.00	-	-		
74	OHX	B1	3587	-	0,6,6	0.00	-	-		
74	OHX	B1	3537	-	0,6,6	0.00	-	-		
74	OHX	D1	3510	-	0,6,6	0.00	-	-		
74	OHX	D1	3462	-	0,6,6	0.00	-	-		
74	OHX	B1	3500	-	0,6,6	0.00	-	-		
74	OHX	B1	3455	-	0,6,6	0.00	-	-		
74	OHX	D1	3613	-	0,6,6	0.00	-	-		
74	OHX	B1	3482	-	0,6,6	0.00	-	-		
74	OHX	D1	3565	-	0,6,6	0.00	-	-		
74	OHX	D1	3443	-	0,6,6	0.00	-	-		
74	OHX	D1	3425	-	0,6,6	0.00	-	-		
74	OHX	B1	3430	-	0,6,6	0.00	-	-		
74	OHX	D1	3507	-	0,6,6	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
74	OHX	B1	3614	-	0,6,6	0.00	-	-		
74	OHX	B1	3611	-	0,6,6	0.00	-	-		
74	OHX	D1	3560	-	0,6,6	0.00	-	-		
74	OHX	D1	3601	-	0,6,6	0.00	-	-		
74	OHX	B1	3551	-	0,6,6	0.00	-	-		
74	OHX	D1	3532	-	0,6,6	0.00	-	-		
74	OHX	A1	1949	-	0,6,6	0.00	-	-		
74	OHX	A1	1936	-	0,6,6	0.00	-	-		
74	OHX	B1	3560	-	0,6,6	0.00	-	-		
74	OHX	DE	301	-	0,6,6	0.00	-	-		
74	OHX	D1	3438	-	0,6,6	0.00	-	-		
74	OHX	B1	3425	-	0,6,6	0.00	-	-		
74	OHX	A1	1969	-	0,6,6	0.00	-	-		
74	OHX	B1	3616	-	0,6,6	0.00	-	-		
74	OHX	D1	3538	-	0,6,6	0.00	-	-		
74	OHX	D1	3577	-	0,6,6	0.00	-	-		
74	OHX	B2	205	-	0,6,6	0.00	-	-		
74	OHX	D1	3455	-	0,6,6	0.00	-	-		
74	OHX	B1	3405	-	0,6,6	0.00	-	-		
74	OHX	B1	3582	-	0,6,6	0.00	-	-		
74	OHX	D1	3468	-	0,6,6	0.00	-	-		
74	OHX	B1	3441	-	0,6,6	0.00	-	-		
74	OHX	B1	3422	-	0,6,6	0.00	-	-		
74	OHX	B1	3610	-	0,6,6	0.00	-	-		
74	OHX	A1	1997	-	0,6,6	0.00	-	-		
74	OHX	C1	1904	-	0,6,6	0.00	-	-		
74	OHX	B1	3488	-	0,6,6	0.00	-	-		

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

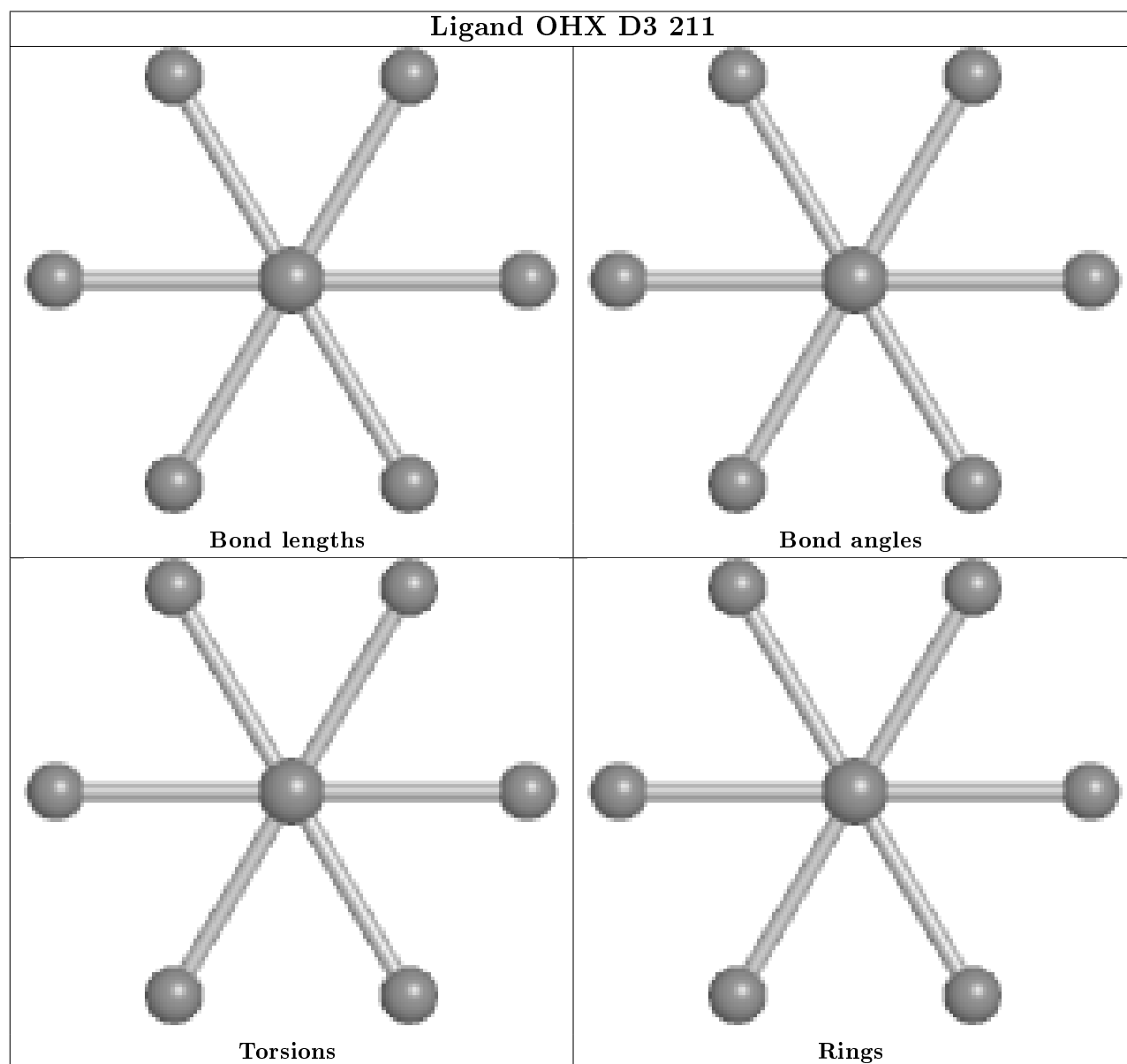
There are no torsion outliers.

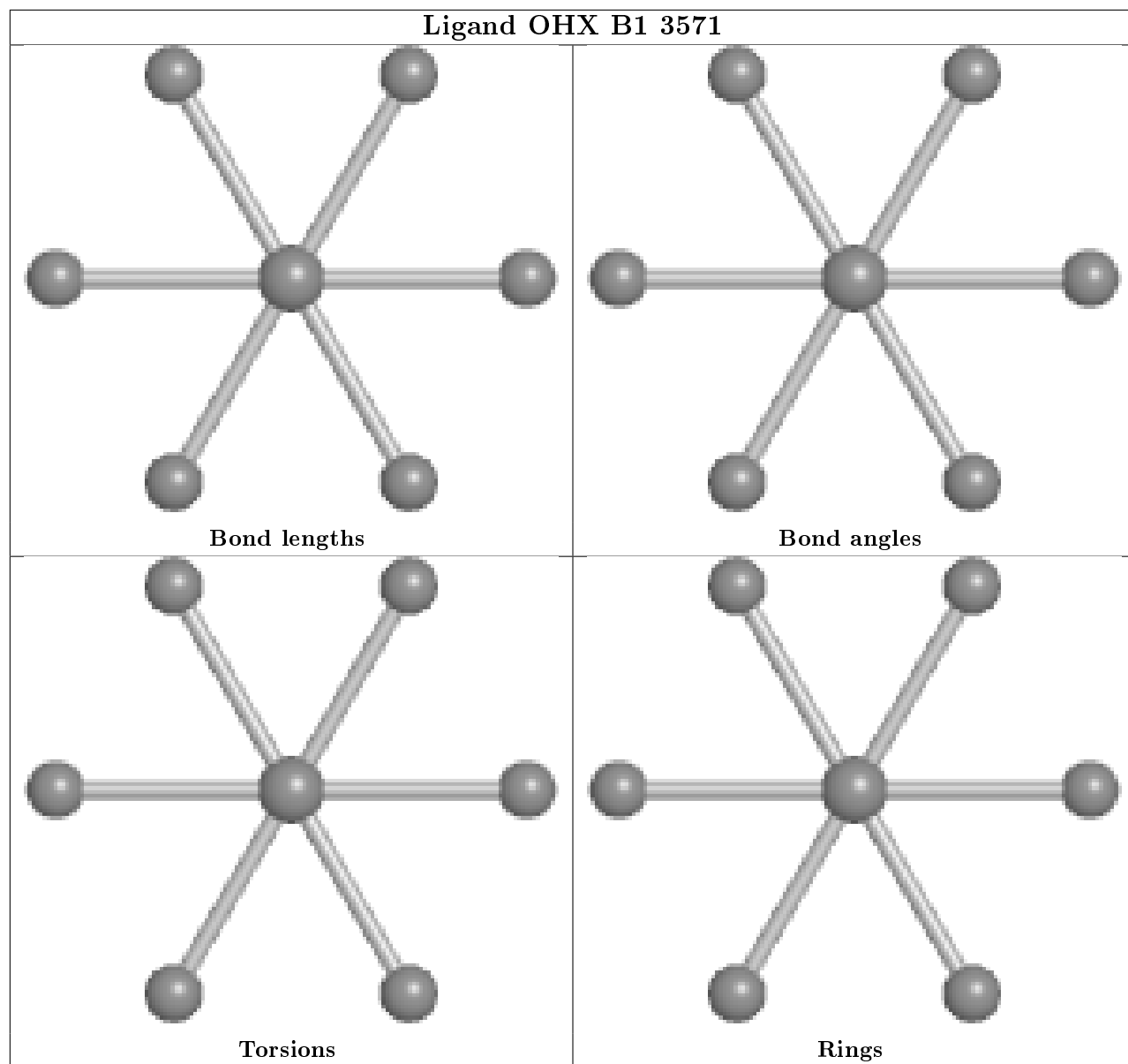
There are no ring outliers.

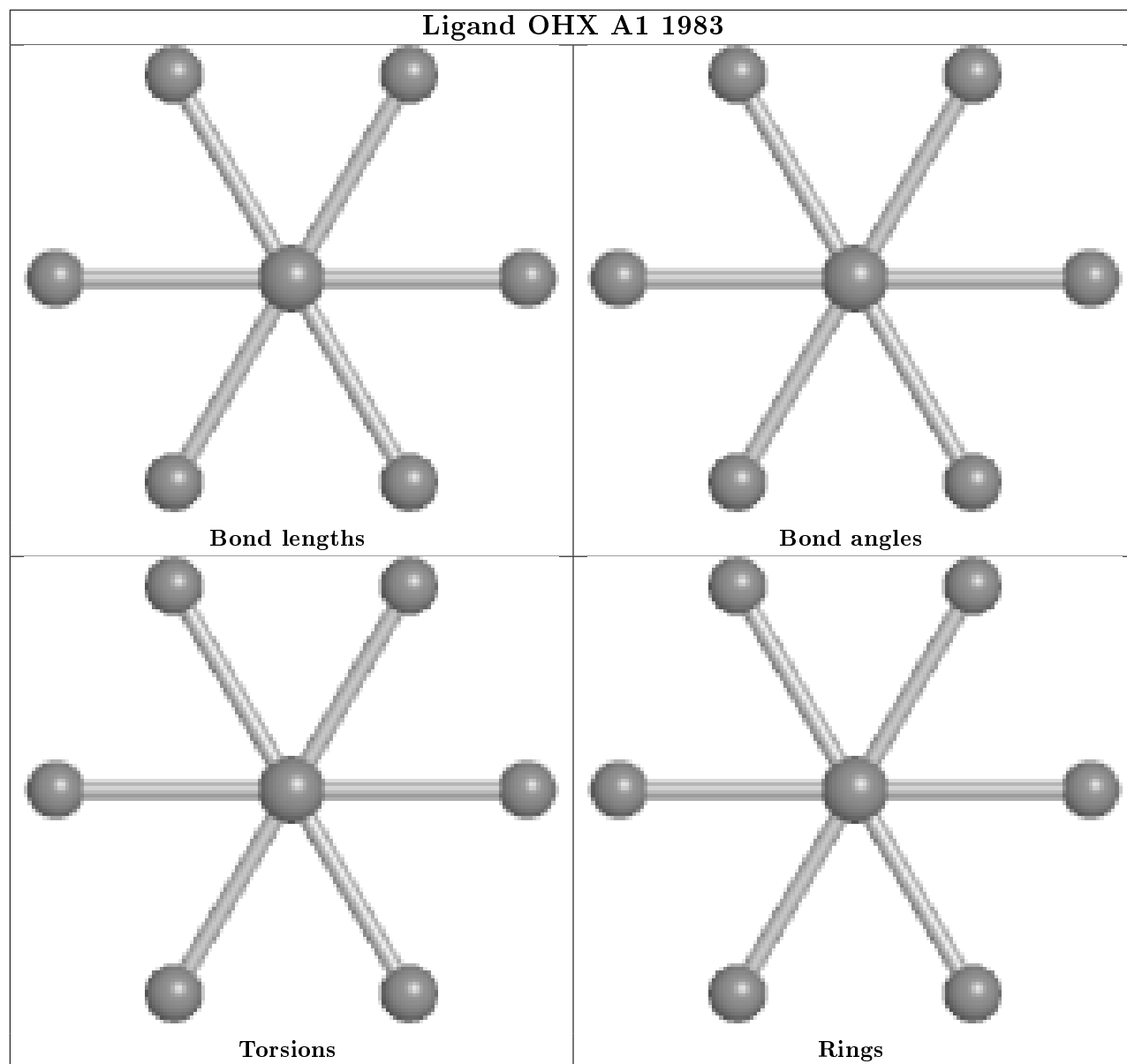
No monomer is involved in short contacts.

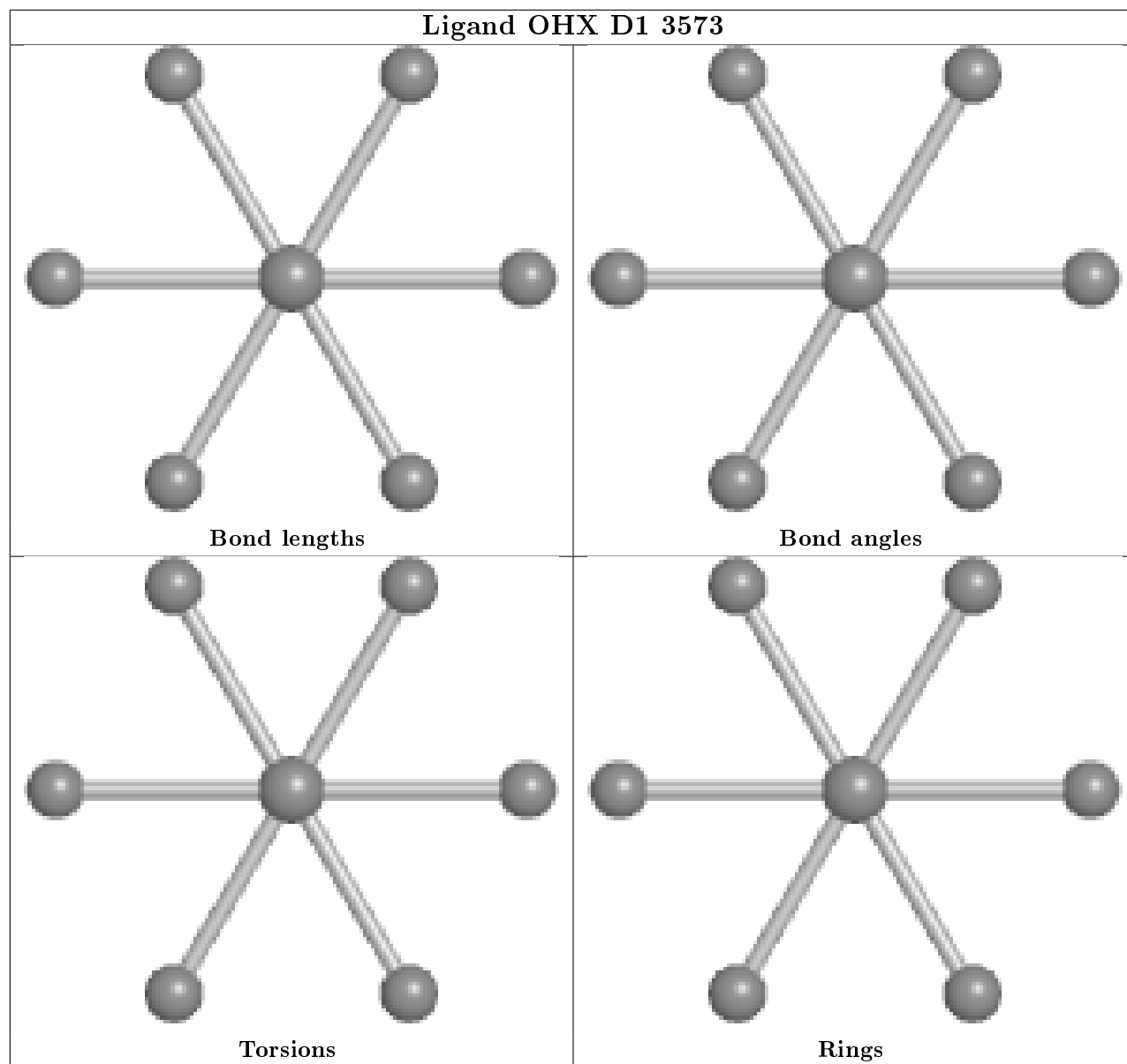
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be

highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

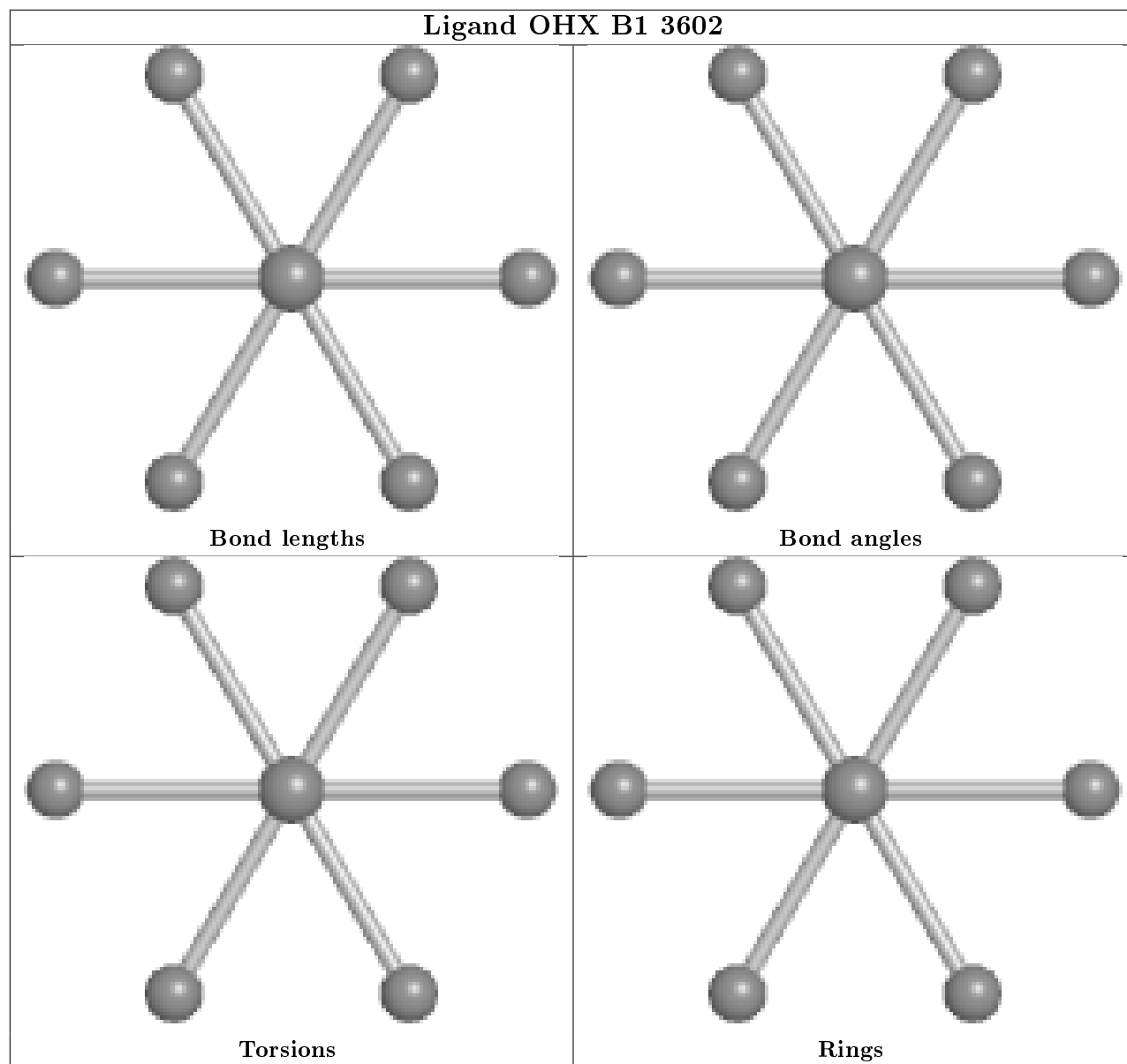


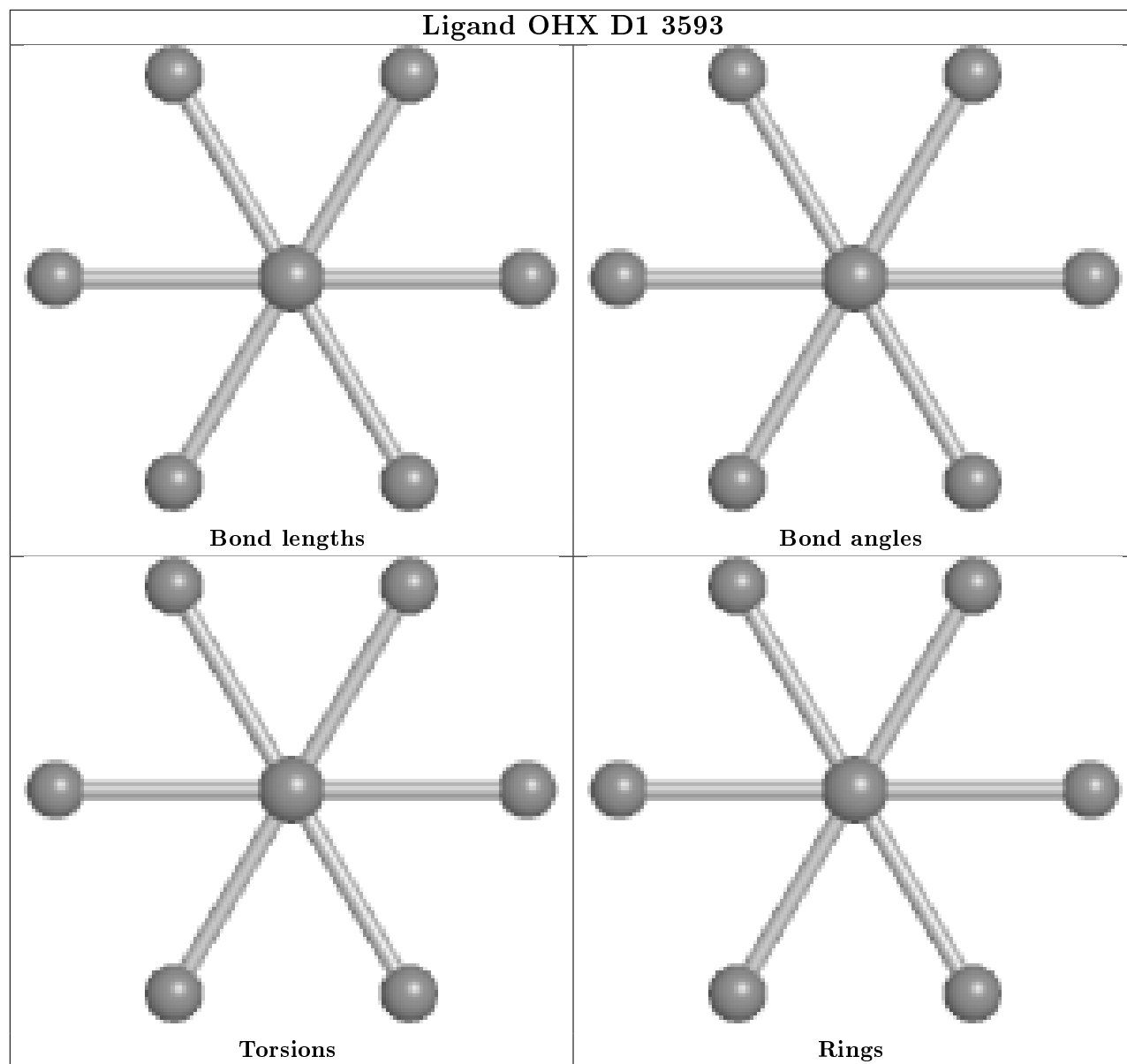


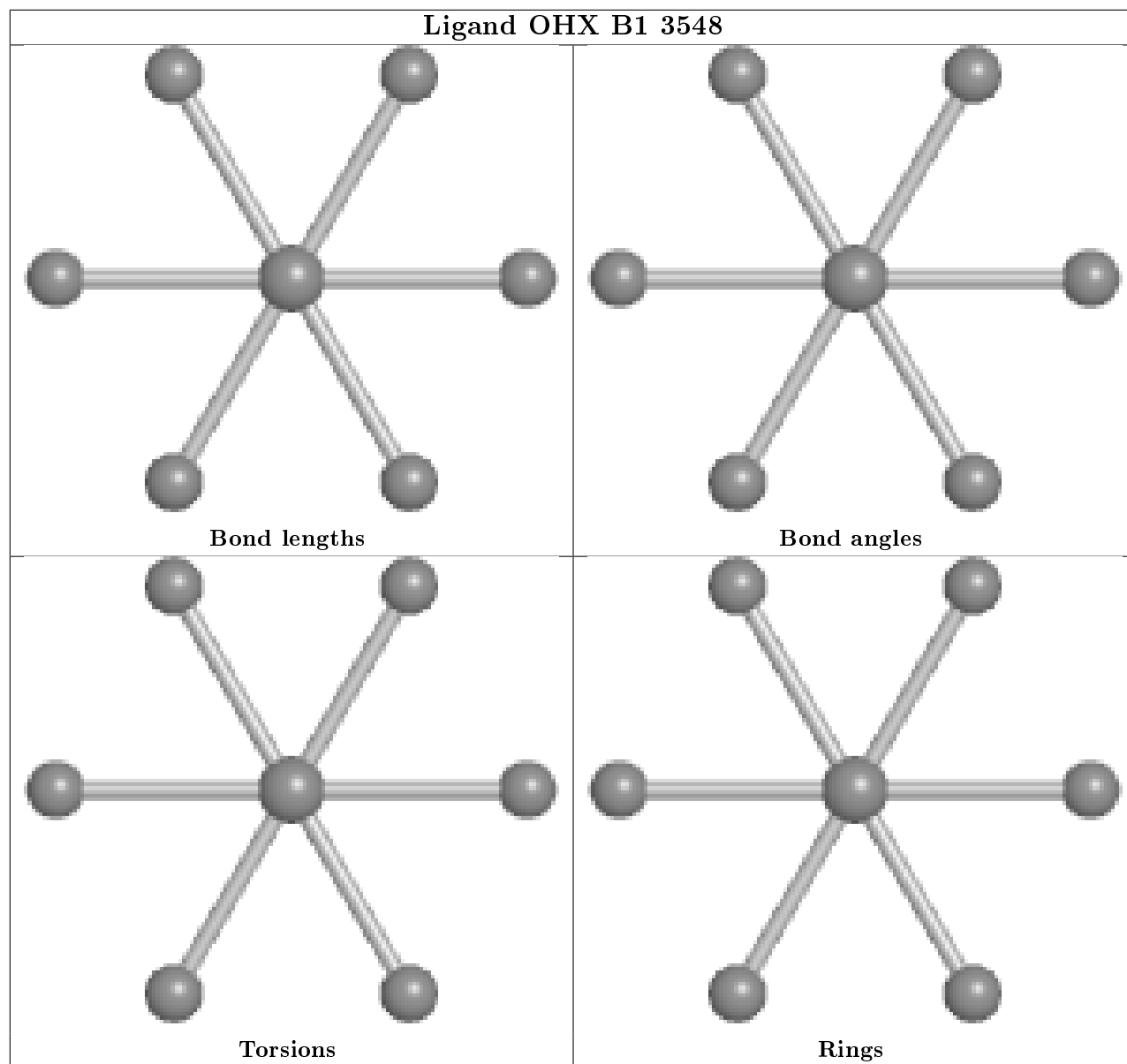


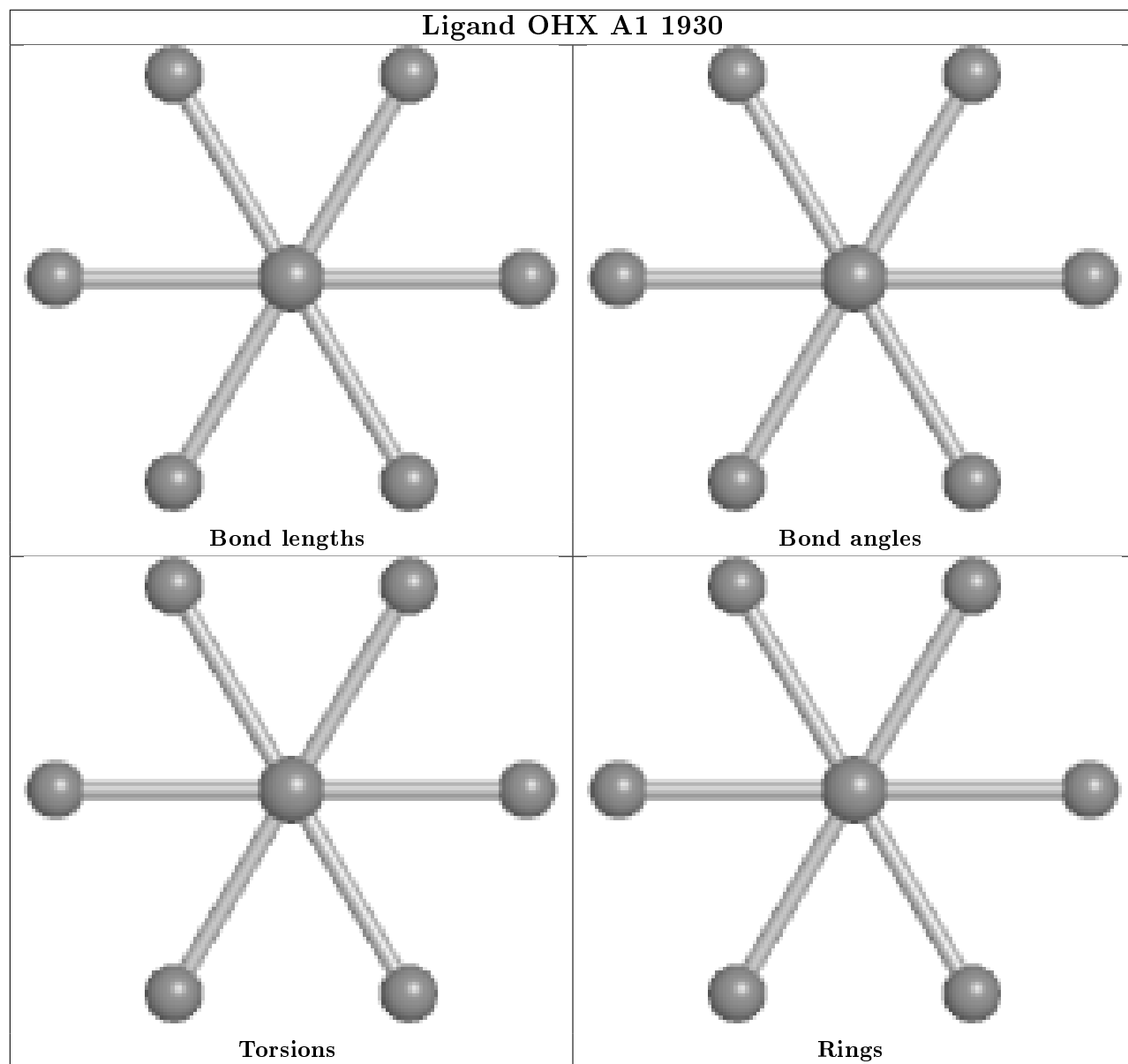


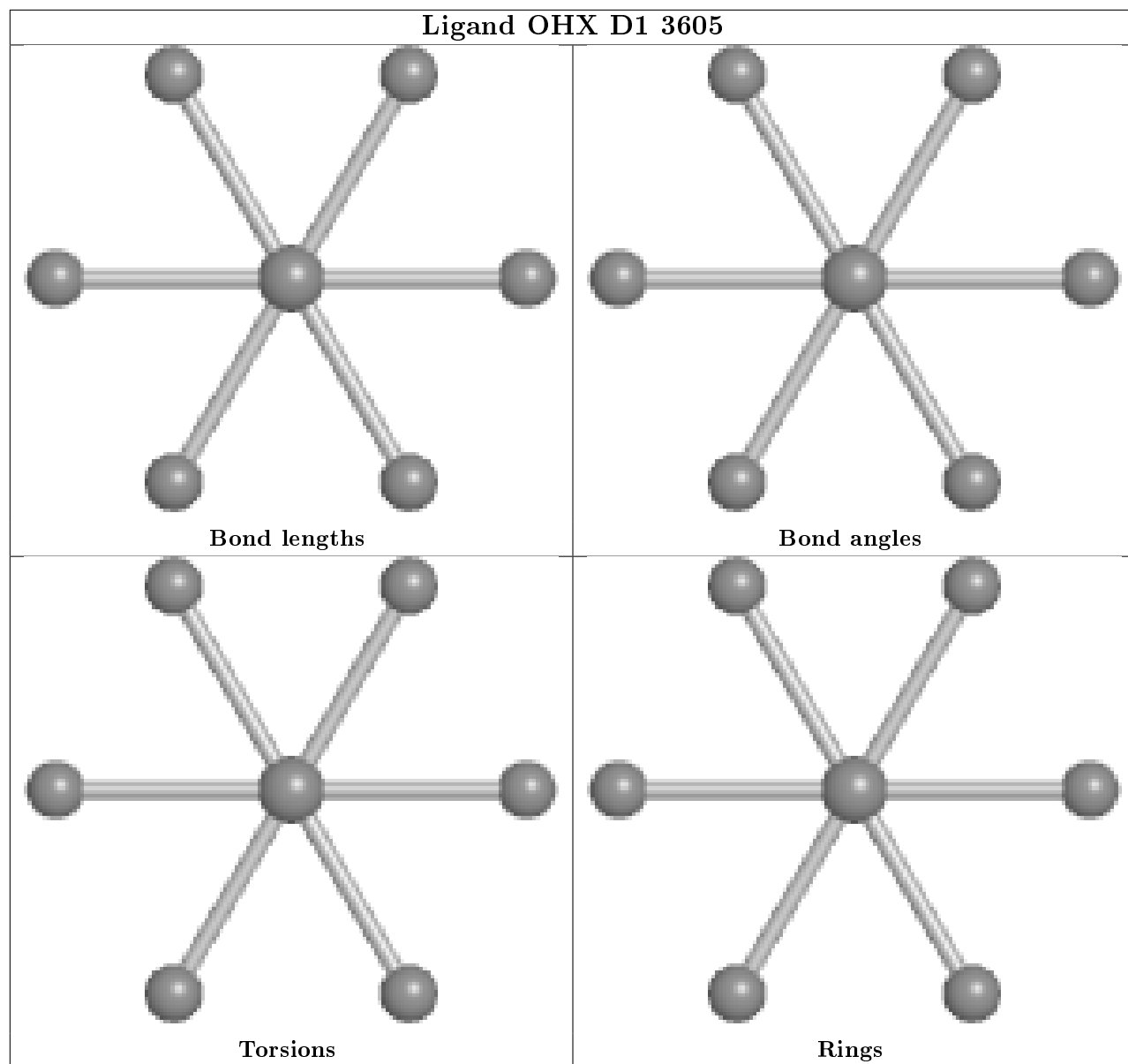


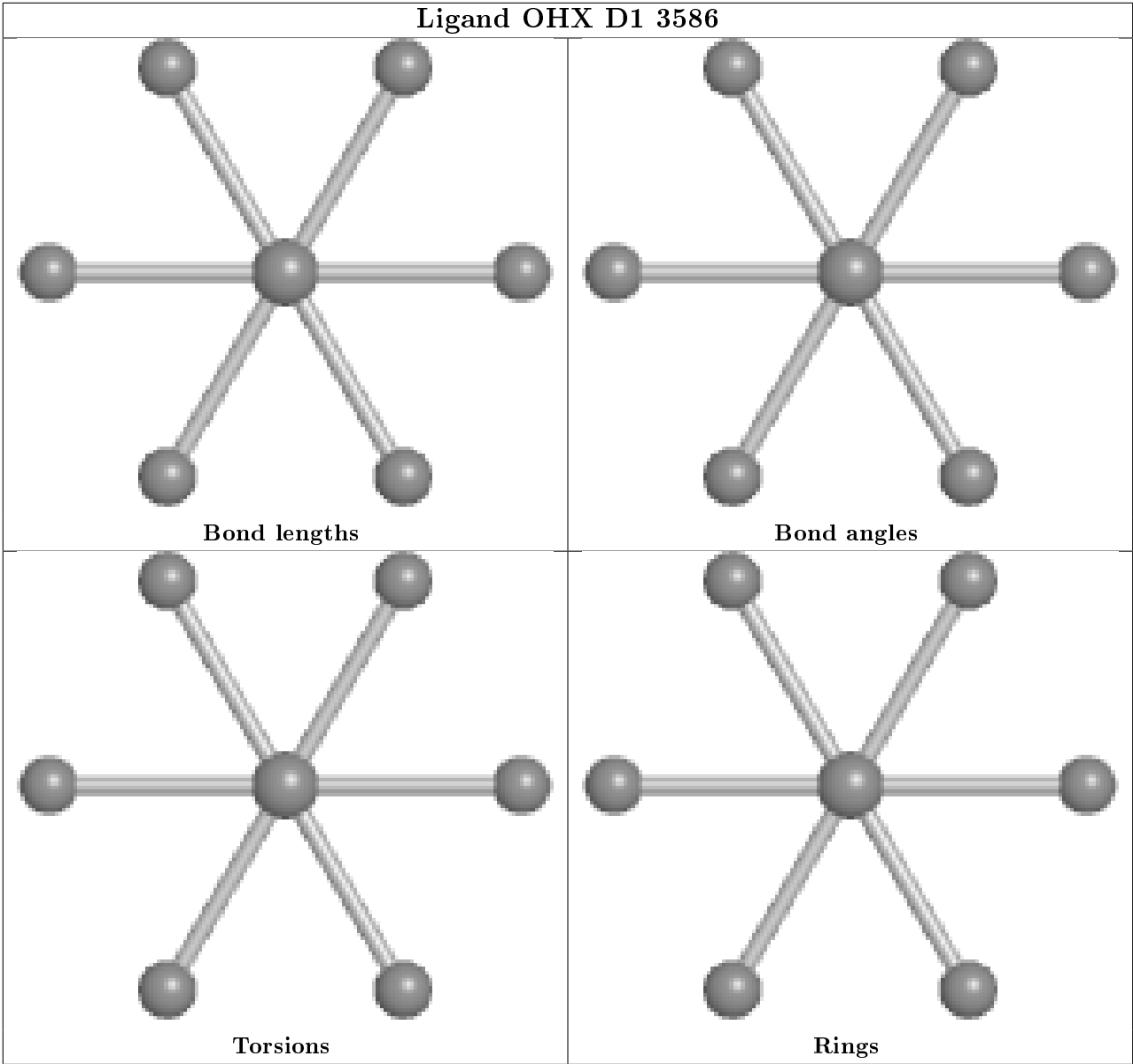












5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
23	Cb	4
23	Ab	4
63	Dh	1

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Number of breaks
68	Bn	1
28	Ch	1
24	Cc	1
24	Ac	1
28	Ah	1
63	Bh	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Bh	23:UNK	C	34:UNK	N	29.25
1	Dh	23:UNK	C	34:UNK	N	28.80
1	Ch	25:UNK	C	50:UNK	N	22.77
1	Ab	19:UNK	C	21:UNK	N	20.41
1	Bn	19:UNK	C	27:UNK	N	20.28
1	Cb	19:UNK	C	21:UNK	N	19.97
1	Cb	30:UNK	C	45:UNK	N	19.12
1	Ah	25:UNK	C	50:UNK	N	19.01
1	Cb	86:UNK	C	101:UNK	N	15.94
1	Ab	68:UNK	C	71:UNK	N	15.61
1	Ab	86:UNK	C	101:UNK	N	13.12
1	Cb	68:UNK	C	71:UNK	N	10.71
1	Ab	30:UNK	C	45:UNK	N	9.43
1	Cc	54:UNK	C	61:UNK	N	5.78
1	Ac	54:UNK	C	61:UNK	N	4.90

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A1	1789/1800 (99%)	0.04	50 (2%) 53 42	45, 138, 429, 753	0
1	C1	1789/1800 (99%)	0.14	61 (3%) 45 36	42, 120, 419, 674	0
2	AA	220/252 (87%)	-0.53	5 (2%) 60 51	64, 150, 323, 474	0
2	CA	220/252 (87%)	-0.54	2 (0%) 84 77	66, 119, 336, 538	0
3	AB	219/254 (86%)	-0.38	3 (1%) 75 65	42, 117, 298, 500	0
3	CB	219/254 (86%)	-0.55	2 (0%) 84 77	50, 108, 288, 386	0
4	AC	189/240 (78%)	-0.35	2 (1%) 80 72	52, 120, 278, 403	0
4	CC	189/240 (78%)	-0.54	0 100 100	41, 120, 262, 460	0
5	AD	169/225 (75%)	-0.58	3 (1%) 68 59	58, 150, 355, 516	0
5	CD	169/225 (75%)	-0.63	3 (1%) 68 59	33, 108, 269, 383	0
6	AE	157/197 (79%)	-0.47	6 (3%) 40 32	44, 140, 362, 438	0
6	CE	157/197 (79%)	-0.46	1 (0%) 89 84	31, 99, 330, 482	0
7	AF	77/156 (49%)	-0.56	1 (1%) 77 68	45, 95, 205, 412	0
7	CF	77/156 (49%)	0.09	7 (9%) 9 8	56, 91, 267, 342	0
8	AG	117/151 (77%)	-0.78	0 100 100	35, 108, 284, 362	0
8	CG	117/151 (77%)	-0.76	0 100 100	47, 97, 263, 458	0
9	AH	128/137 (93%)	-0.21	6 (4%) 31 26	53, 186, 349, 436	0
9	CH	128/137 (93%)	-0.21	5 (3%) 39 31	39, 132, 354, 482	0
10	AI	121/142 (85%)	-0.51	2 (1%) 70 60	55, 140, 329, 419	0
10	CI	121/142 (85%)	-0.44	1 (0%) 86 79	46, 116, 273, 447	0
11	AJ	134/143 (93%)	-0.56	2 (1%) 73 64	74, 144, 302, 340	0
11	CJ	134/143 (93%)	-0.46	3 (2%) 62 52	44, 99, 288, 381	0
12	AK	67/136 (49%)	-0.43	2 (2%) 50 39	52, 142, 319, 407	0
12	CK	67/136 (49%)	0.19	5 (7%) 14 12	64, 199, 350, 401	0

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	AL	120/146 (82%)	-0.46	2 (1%) 70 60	55, 146, 298, 514	0
13	CL	120/146 (82%)	-0.41	5 (4%) 36 29	52, 96, 293, 519	0
14	AM	106/144 (73%)	-0.53	2 (1%) 66 58	71, 138, 348, 425	0
14	CM	106/144 (73%)	-0.57	2 (1%) 66 58	42, 81, 260, 338	0
15	AN	111/121 (91%)	-0.34	3 (2%) 54 44	68, 129, 336, 412	0
15	CN	111/121 (91%)	-0.34	1 (0%) 84 77	32, 111, 286, 424	0
16	AO	127/130 (97%)	-0.39	0 100 100	53, 95, 256, 411	0
16	CO	127/130 (97%)	-0.75	0 100 100	54, 91, 229, 441	0
17	AP	116/145 (80%)	-0.63	0 100 100	29, 95, 247, 384	0
17	CP	116/145 (80%)	-0.63	0 100 100	29, 71, 190, 418	0
18	AQ	67/108 (62%)	-0.42	1 (1%) 73 64	94, 210, 332, 355	0
18	CQ	63/108 (58%)	-0.33	2 (3%) 47 37	68, 150, 282, 307	0
19	AR	47/67 (70%)	0.11	4 (8%) 10 9	107, 245, 393, 457	0
19	CR	47/67 (70%)	0.37	5 (10%) 6 6	51, 221, 381, 425	0
20	AS	39/56 (69%)	-0.48	0 100 100	58, 108, 181, 260	0
20	CS	39/56 (69%)	-0.49	0 100 100	37, 95, 140, 292	0
21	AT	313/319 (98%)	-0.23	12 (3%) 40 32	106, 195, 286, 348	0
21	CT	313/319 (98%)	-0.20	13 (4%) 36 29	67, 158, 257, 328	0
22	Aa	0/20	-	-	-	-
22	Bo	0/20	-	-	-	-
22	Ca	0/20	-	-	-	-
23	Ab	0/105	-	-	-	-
23	Cb	0/105	-	-	-	-
24	Ac	0/93	-	-	-	-
24	Cc	0/93	-	-	-	-
25	Ad	0/35	-	-	-	-
25	Cd	0/35	-	-	-	-
26	Ae	0/21	-	-	-	-
26	Bj	0/21	-	-	-	-
26	Dj	0/21	-	-	-	-
27	Af	0/11	-	-	-	-
28	Ah	0/41	-	-	-	-
28	Ch	0/41	-	-	-	-
29	B1	3206/3396 (94%)	0.04	83 (2%) 56 46	33, 86, 395, 634	0
29	D1	3206/3396 (94%)	0.09	88 (2%) 54 44	30, 94, 427, 674	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
30	B2	121/121 (100%)	-0.09	0 100 100	46, 118, 189, 323	0
30	D2	121/121 (100%)	-0.06	1 (0%) 86 79	36, 95, 180, 349	0
31	B3	158/158 (100%)	0.00	6 (3%) 40 32	46, 108, 258, 619	0
31	D3	158/158 (100%)	-0.02	2 (1%) 77 68	59, 136, 358, 586	0
32	BA	213/217 (98%)	0.51	33 (15%) 2 2	137, 327, 441, 483	0
32	DA	213/217 (98%)	0.73	42 (19%) 1 1	159, 354, 442, 484	0
33	BB	234/254 (92%)	-0.46	3 (1%) 77 68	25, 83, 246, 419	0
33	DB	234/254 (92%)	-0.24	5 (2%) 63 54	54, 108, 254, 417	0
34	BC	364/387 (94%)	-0.61	1 (0%) 94 90	20, 66, 216, 560	0
34	DC	364/387 (94%)	-0.69	0 100 100	29, 58, 208, 543	0
35	BD	268/362 (74%)	-0.71	0 100 100	34, 70, 207, 500	0
35	DD	268/362 (74%)	-0.52	2 (0%) 87 82	50, 102, 274, 463	0
36	BE	287/297 (96%)	-0.46	2 (0%) 87 82	58, 119, 355, 497	0
36	DE	287/297 (96%)	-0.60	6 (2%) 63 54	38, 91, 302, 478	0
37	BF	176/176 (100%)	-0.61	2 (1%) 80 72	25, 81, 305, 519	0
37	DF	176/176 (100%)	-0.50	1 (0%) 89 84	31, 69, 342, 518	0
38	BG	215/244 (88%)	-0.85	0 100 100	21, 59, 226, 486	0
38	DG	215/244 (88%)	-0.89	0 100 100	25, 49, 167, 330	0
39	BH	173/256 (67%)	-0.45	4 (2%) 60 51	45, 110, 297, 429	0
39	DH	173/256 (67%)	-0.38	4 (2%) 60 51	70, 146, 316, 422	0
40	BI	191/191 (100%)	-0.51	2 (1%) 82 74	27, 83, 237, 347	0
40	DI	191/191 (100%)	-0.89	0 100 100	22, 49, 164, 286	0
41	BJ	208/221 (94%)	-0.64	1 (0%) 91 85	39, 93, 251, 452	0
41	DJ	208/221 (94%)	-0.73	1 (0%) 91 85	25, 64, 257, 456	0
42	BK	165/174 (94%)	-0.48	4 (2%) 59 49	56, 125, 348, 497	0
42	DK	165/174 (94%)	-0.60	1 (0%) 89 84	45, 97, 330, 532	0
43	BN	120/138 (86%)	-0.58	0 100 100	34, 77, 260, 387	0
43	DN	120/138 (86%)	-0.69	1 (0%) 86 79	33, 60, 262, 325	0
44	BO	187/204 (91%)	-0.55	1 (0%) 91 85	38, 86, 178, 383	0
44	DO	187/204 (91%)	-0.36	4 (2%) 63 54	57, 119, 255, 327	0
45	BP	196/199 (98%)	-0.84	0 100 100	23, 48, 152, 409	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
45	DP	196/199 (98%)	-0.74	1 (0%) 91 85	23, 45, 111, 424	0
46	BQ	154/184 (83%)	-0.73	0 100 100	30, 55, 144, 337	0
46	DQ	154/184 (83%)	-0.78	0 100 100	37, 77, 243, 373	0
47	BR	143/186 (76%)	-0.71	1 (0%) 87 82	38, 70, 200, 421	0
47	DR	143/186 (76%)	-0.30	4 (2%) 53 42	60, 87, 244, 378	0
48	BS	188/189 (99%)	-0.49	3 (1%) 72 62	52, 101, 419, 569	0
48	DS	188/189 (99%)	0.17	25 (13%) 3 4	59, 109, 589, 657	0
49	BT	119/160 (74%)	-0.57	1 (0%) 86 79	42, 73, 221, 310	0
49	DT	119/160 (74%)	-0.62	0 100 100	36, 72, 184, 282	0
50	BU	129/137 (94%)	-0.55	0 100 100	27, 70, 208, 391	0
50	DU	129/137 (94%)	-0.62	0 100 100	20, 48, 151, 235	0
51	BV	59/155 (38%)	-0.68	0 100 100	29, 84, 259, 363	0
51	DV	59/155 (38%)	-0.48	1 (1%) 70 60	53, 73, 197, 320	0
52	BW	94/142 (66%)	-0.44	0 100 100	53, 91, 211, 312	0
52	DW	94/142 (66%)	-0.45	1 (1%) 80 72	64, 124, 247, 337	0
53	BX	107/127 (84%)	-0.70	0 100 100	58, 91, 182, 233	0
53	DX	107/127 (84%)	-0.48	2 (1%) 66 58	56, 106, 248, 361	0
54	BY	149/149 (100%)	-0.46	3 (2%) 65 56	30, 76, 331, 456	0
54	DY	149/149 (100%)	-0.52	1 (0%) 87 82	49, 95, 277, 409	0
55	BZ	98/105 (93%)	-0.33	2 (2%) 65 56	52, 128, 269, 360	0
55	DZ	98/105 (93%)	-0.30	3 (3%) 49 38	56, 134, 272, 365	0
56	Ba	86/113 (76%)	-0.67	0 100 100	38, 83, 232, 396	0
56	Da	86/113 (76%)	-0.64	0 100 100	51, 82, 274, 430	0
57	Bb	125/130 (96%)	-0.78	0 100 100	26, 54, 138, 435	0
57	Db	125/130 (96%)	-0.48	1 (0%) 86 79	39, 77, 168, 380	0
58	Bc	68/120 (56%)	-0.66	0 100 100	46, 89, 202, 381	0
58	Dc	68/120 (56%)	-0.74	1 (1%) 73 64	50, 123, 270, 348	0
59	Bd	72/88 (81%)	-0.53	0 100 100	36, 79, 322, 434	0
59	Dd	72/88 (81%)	-0.62	0 100 100	30, 103, 268, 336	0
60	Be	48/51 (94%)	-0.65	0 100 100	30, 72, 159, 290	0
60	De	48/51 (94%)	-0.58	0 100 100	40, 118, 222, 333	0

*Continued on next page...*

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
61	Bf	95/106 (89%)	-0.19	3 (3%) 47 37	57, 145, 363, 475	0
61	Df	95/106 (89%)	0.22	10 (10%) 6 6	62, 195, 389, 486	0
62	Bg	83/92 (90%)	-0.68	1 (1%) 79 70	35, 98, 311, 431	0
62	Dg	83/92 (90%)	-0.63	0 100 100	42, 103, 241, 369	0
63	Bh	0/44	-	-	-	-
63	Dh	0/44	-	-	-	-
64	Bi	0/12	-	-	-	-
64	Di	0/12	-	-	-	-
65	Bk	0/16	-	-	-	-
65	Dk	0/16	-	-	-	-
66	Bl	0/19	-	-	-	-
67	Bm	0/9	-	-	-	-
68	Bn	0/27	-	-	-	-
69	Bp	0/8	-	-	-	-
70	Bq	0/17	-	-	-	-
71	Br	0/23	-	-	-	-
72	DL	138/165 (83%)	-0.58	2 (1%) 75 65	84, 172, 387, 465	0
73	DM	130/312 (41%)	-0.53	2 (1%) 73 64	47, 121, 305, 409	0
All	All	25728/30002 (85%)	-0.26	592 (2%) 60 51	20, 105, 353, 753	0

All (592) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
29	B1	136	G	14.9
1	C1	681	U	14.6
29	D1	2495	C	14.4
1	A1	1701	A	13.6
29	D1	2494	A	13.5
29	D1	2473	C	13.2
29	D1	2453	U	12.5
32	DA	168	ALA	11.9
1	C1	662	U	11.6
32	BA	197	ASN	10.8
29	B1	2494	A	10.8
29	B1	133	U	10.6
48	DS	175	GLN	10.6
1	C1	664	U	10.4
1	C1	680	U	10.1
32	DA	192	SER	10.1
48	DS	176	ARG	10.0

Continued on next page...

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
29	D1	766	U	10.0
1	A1	1709	C	9.7
29	B1	2493	U	9.6
29	B1	2448	G	9.5
29	D1	2472	U	9.4
48	DS	174	ALA	9.2
1	A1	1795	U	9.1
29	B1	2472	U	9.0
1	C1	1700	C	8.8
29	D1	2449	A	8.6
29	B1	765	C	8.6
48	DS	173	ARG	8.3
1	C1	679	U	8.1
29	B1	2402	A	8.0
1	C1	1699	G	7.9
29	B1	1027	A	7.8
1	C1	666	U	7.8
29	B1	766	U	7.8
21	CT	51	ASP	7.4
1	C1	665	U	7.3
29	D1	2451	G	7.3
19	AR	19	THR	7.3
48	BS	182	ASP	7.1
5	AD	185	ARG	7.1
29	D1	2450	G	7.0
13	CL	94	ASP	6.9
29	D1	765	C	6.8
29	D1	2726	C	6.8
1	C1	69	G	6.8
19	CR	29	ARG	6.8
48	DS	160	GLU	6.6
21	AT	25	THR	6.6
29	B1	2495	C	6.6
1	C1	667	U	6.5
1	C1	1677	C	6.5
29	D1	2402	A	6.5
32	DA	33	GLU	6.5
12	AK	36	ASP	6.5
12	CK	36	ASP	6.5
29	D1	2481	G	6.5
29	D1	2474	G	6.4
1	C1	661	A	6.4

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
48	DS	159	ALA	6.4
29	D1	2452	G	6.1
9	AH	11	SER	6.1
48	DS	171	ASP	6.1
39	BH	129	PRO	6.0
29	B1	2445	A	6.0
32	BA	198	TRP	6.0
9	CH	11	SER	6.0
1	A1	1705	C	5.9
32	BA	36	VAL	5.9
29	D1	2448	G	5.9
32	DA	194	LEU	5.9
1	A1	1699	G	5.9
32	BA	37	GLY	5.9
2	CA	213	GLN	5.8
10	AI	53	PRO	5.8
32	BA	199	GLN	5.8
29	D1	3353	G	5.7
48	DS	167	ARG	5.7
32	DA	156	LYS	5.7
19	CR	50	GLU	5.7
29	D1	1573	G	5.7
1	C1	682	C	5.7
29	B1	1241	U	5.6
48	DS	170	ARG	5.6
13	CL	95	GLY	5.6
32	BA	188	ASN	5.6
29	B1	1762	C	5.5
29	D1	2418	G	5.5
1	A1	1698	G	5.3
29	B1	1764	U	5.3
1	A1	664	U	5.3
29	B1	1644	C	5.3
1	A1	1697	G	5.3
29	D1	437	G	5.3
39	BH	235	GLY	5.2
29	B1	1763	U	5.2
12	CK	22	PRO	5.2
21	AT	44	SER	5.2
32	DA	158	GLN	5.1
29	D1	767	U	5.1
48	DS	186	LYS	5.1

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
48	DS	187	GLU	5.1
1	A1	1255	G	5.1
36	DE	231	ILE	5.1
29	D1	2455	U	5.0
29	D1	2483	G	5.0
29	B1	2726	C	5.0
32	DA	197	ASN	5.0
29	B1	1199	C	4.9
35	DD	67	THR	4.9
55	DZ	105	ALA	4.8
12	CK	37	GLU	4.8
1	C1	1795	U	4.8
1	C1	1800	A	4.8
29	B1	2464	U	4.8
12	CK	35	CYS	4.8
32	DA	193	LEU	4.8
29	D1	133	U	4.8
32	DA	143	ASP	4.7
36	DE	232	ASP	4.7
13	CL	85	PHE	4.6
10	CI	53	PRO	4.6
29	B1	2499	U	4.5
31	B3	86	U	4.5
29	D1	2470	C	4.5
3	AB	93	GLY	4.5
29	D1	2465	G	4.5
7	CF	116	ARG	4.5
48	DS	166	ASN	4.5
30	D2	39	C	4.5
6	AE	21	SER	4.5
29	B1	2458	A	4.5
1	A1	1710	U	4.5
57	Db	116	GLY	4.5
36	DE	270	LYS	4.4
29	B1	2492	C	4.4
29	D1	2480	A	4.4
14	AM	3	GLY	4.4
48	DS	163	ARG	4.4
21	CT	212	ALA	4.3
21	AT	212	ALA	4.3
12	CK	31	ASN	4.3
21	CT	52	GLN	4.3

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	A1	679	U	4.3
32	DA	86	SER	4.3
48	DS	177	VAL	4.2
32	BA	190	PHE	4.2
1	C1	652	G	4.2
32	BA	116	LEU	4.2
32	DA	160	LYS	4.2
29	B1	2466	G	4.2
1	C1	1676	U	4.2
29	D1	2460	U	4.2
1	C1	1697	G	4.2
61	Bf	10	THR	4.2
61	Df	56	PRO	4.2
32	DA	41	TYR	4.2
1	C1	137	U	4.2
1	C1	660	G	4.2
32	BA	166	ALA	4.2
32	DA	163	LEU	4.2
15	AN	85	ARG	4.1
48	DS	172	ARG	4.1
21	CT	113	VAL	4.1
29	D1	2454	G	4.1
19	CR	34	GLU	4.1
32	DA	162	VAL	4.1
29	B1	132	C	4.1
29	B1	2446	U	4.0
1	A1	69	G	4.0
29	D1	2475	G	4.0
32	BA	175	GLU	4.0
29	D1	2456	A	4.0
31	B3	126	A	4.0
29	D1	2675	C	4.0
1	A1	505	A	4.0
29	D1	2489	C	4.0
29	B1	1270	A	4.0
29	D1	2466	G	3.9
19	CR	30	VAL	3.9
2	CA	26	ALA	3.9
36	BE	268	GLU	3.9
53	DX	45	ILE	3.9
29	B1	2489	C	3.9
29	D1	2688	U	3.9

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
14	AM	26	GLY	3.9
32	DA	144	LEU	3.9
29	D1	2496	C	3.8
13	CL	86	LEU	3.8
29	D1	2257	C	3.8
41	DJ	113	GLN	3.8
47	DR	120	GLU	3.8
1	A1	134	U	3.8
1	A1	1059	U	3.8
73	DM	72	ASP	3.8
1	C1	823	G	3.8
29	B1	119	U	3.8
1	A1	490	C	3.7
42	BK	136	ALA	3.7
32	DA	6	SER	3.7
1	A1	653	C	3.7
1	C1	656	G	3.7
29	B1	2447	A	3.7
29	D1	3273	A	3.7
32	DA	137	PRO	3.7
29	B1	2465	G	3.7
15	CN	95	ALA	3.7
13	AL	84	TRP	3.7
29	D1	2482	U	3.7
41	BJ	116	ARG	3.6
29	B1	2475	G	3.6
32	DA	164	CYS	3.6
7	CF	141	LYS	3.6
21	CT	172	ALA	3.6
32	BA	115	VAL	3.6
61	Df	21	THR	3.6
11	CJ	143	ARG	3.6
32	DA	139	SER	3.6
1	C1	1798	U	3.6
32	BA	9	VAL	3.6
6	AE	86	LEU	3.5
47	DR	152	HIS	3.5
61	Bf	12	CYS	3.5
39	DH	199	ALA	3.5
7	CF	117	VAL	3.5
1	A1	682	C	3.5
72	DL	102	GLY	3.5

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
31	B3	158	U	3.5
45	DP	199	TYR	3.5
32	BA	66	CYS	3.5
62	Bg	92	ALA	3.5
32	BA	200	ASN	3.5
29	B1	2473	C	3.4
61	Df	82	GLN	3.4
7	CF	145	ALA	3.4
1	C1	1350	U	3.4
29	D1	2476	C	3.4
29	B1	2456	A	3.4
29	D1	2095	G	3.4
32	DA	111	ILE	3.4
1	C1	1201	G	3.4
1	A1	1794	A	3.4
7	CF	140	VAL	3.4
29	D1	245	U	3.4
29	B1	2688	U	3.4
29	B1	2675	C	3.4
11	AJ	58	ASP	3.3
73	DM	71	PRO	3.3
48	BS	183	ALA	3.3
19	AR	18	ARG	3.3
29	B1	2500	A	3.3
35	DD	66	GLY	3.3
33	DB	97	ASN	3.3
61	Df	54	THR	3.3
32	DA	169	VAL	3.3
21	AT	80	ALA	3.3
48	DS	157	GLU	3.3
29	D1	3271	G	3.2
29	D1	1568	U	3.2
43	DN	28	SER	3.2
32	DA	196	LYS	3.2
4	AC	187	LYS	3.2
29	B1	3260	G	3.2
21	CT	213	SER	3.2
42	BK	150	ASN	3.2
29	D1	2501	U	3.2
29	D1	1644	C	3.2
11	CJ	20	ALA	3.2
29	D1	3260	G	3.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
48	DS	158	GLU	3.2
29	B1	1026	A	3.2
48	DS	156	ASN	3.1
58	Dc	1	MET	3.1
6	AE	87	SER	3.1
1	A1	1800	A	3.1
29	D1	2259	A	3.1
36	BE	39	GLN	3.1
1	C1	1698	G	3.1
29	B1	2462	A	3.1
1	A1	137	U	3.1
32	DA	50	SER	3.1
1	C1	1192	C	3.1
29	D1	2484	A	3.1
9	AH	80	HIS	3.1
1	A1	710	U	3.0
29	D1	136	G	3.0
1	A1	1240	U	3.0
32	BA	157	PHE	3.0
32	DA	37	GLY	3.0
32	DA	42	ASP	3.0
5	CD	184	PHE	3.0
32	DA	43	PRO	3.0
29	D1	2403	G	3.0
44	BO	57	GLN	3.0
1	A1	1703	C	3.0
29	B1	326	U	3.0
1	A1	1241	G	2.9
1	A1	1631	A	2.9
29	B1	1016	C	2.9
19	AR	50	GLU	2.9
32	BA	192	SER	2.9
29	B1	1221	A	2.9
44	DO	40	ALA	2.9
1	A1	1	U	2.9
1	A1	503	G	2.9
32	BA	145	TYR	2.9
32	DA	49	PHE	2.9
29	B1	2449	A	2.9
53	DX	44	GLY	2.9
32	DA	138	VAL	2.9
29	B1	2452	G	2.9

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
48	DS	185	LEU	2.9
36	DE	230	ASP	2.9
29	B1	2486	A	2.9
44	DO	3	ALA	2.9
6	AE	175	ARG	2.9
5	AD	184	PHE	2.9
29	B1	3352	U	2.9
1	C1	1130	G	2.9
40	BI	190	ASP	2.9
21	AT	59	ARG	2.8
29	B1	135	C	2.8
31	D3	126	A	2.8
32	DA	141	ASN	2.8
61	Df	55	LYS	2.8
21	AT	130	THR	2.8
1	C1	1695	G	2.8
1	C1	782	U	2.8
1	A1	279	G	2.8
29	D1	2493	U	2.8
6	CE	174	ARG	2.8
47	DR	153	PHE	2.8
9	AH	12	GLN	2.8
32	BA	176	GLU	2.8
1	C1	653	C	2.8
9	AH	15	GLY	2.8
1	C1	695	U	2.8
29	B1	137	G	2.8
4	AC	153	ALA	2.8
32	DA	155	ILE	2.8
29	D1	252	U	2.8
6	AE	176	ASN	2.8
32	BA	62	ASN	2.8
32	BA	88	ASP	2.8
51	DV	1	MET	2.8
1	A1	135	A	2.8
29	B1	2418	G	2.7
61	Df	22	GLN	2.7
29	B1	1273	A	2.7
48	BS	53	LYS	2.7
1	C1	284	G	2.7
29	B1	1242	G	2.7
29	B1	1349	G	2.7

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
32	BA	8	GLN	2.7
39	DH	213	LYS	2.7
11	AJ	57	LEU	2.7
5	CD	185	ARG	2.7
42	BK	135	GLY	2.7
29	D1	1574	C	2.7
1	C1	651	G	2.7
29	B1	2485	A	2.7
32	BA	27	ASN	2.7
1	C1	659	C	2.7
32	BA	26	ARG	2.7
48	DS	168	ALA	2.7
1	C1	493	U	2.7
32	DA	199	GLN	2.7
19	CR	28	VAL	2.7
29	B1	2467	G	2.7
61	Df	7	THR	2.7
47	DR	149	ALA	2.6
1	C1	1797	A	2.6
29	B1	2488	A	2.6
29	D1	2570	U	2.6
32	BA	189	PHE	2.6
29	B1	2871	G	2.6
49	BT	121	ALA	2.6
55	DZ	89	VAL	2.6
29	D1	2554	A	2.6
48	DS	182	ASP	2.6
1	A1	1706	C	2.6
29	B1	2471	U	2.6
29	D1	2491	A	2.6
7	AF	116	ARG	2.6
42	BK	152	HIS	2.6
29	B1	3353	G	2.6
7	CF	144	ALA	2.6
47	BR	152	HIS	2.6
72	DL	103	ASN	2.6
9	CH	109	GLY	2.6
29	B1	2463	G	2.6
36	DE	39	GLN	2.6
32	BA	168	ALA	2.6
32	DA	140	HIS	2.6
61	Df	81	ALA	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
3	AB	112	GLY	2.6
1	C1	239	C	2.6
1	C1	655	G	2.6
1	C1	1796	C	2.6
29	D1	1354	G	2.5
29	D1	2457	G	2.5
29	B1	1014	U	2.5
29	D1	246	U	2.5
29	D1	2256	A	2.5
1	A1	1796	C	2.5
1	C1	718	U	2.5
29	D1	2502	A	2.5
32	DA	63	MET	2.5
39	DH	198	ALA	2.5
31	B3	51	G	2.5
1	C1	1378	U	2.5
29	B1	3314	A	2.5
37	BF	140	VAL	2.5
1	A1	719	U	2.5
32	DA	48	ARG	2.5
1	C1	105	A	2.5
29	B1	1029	G	2.5
1	A1	1256	A	2.5
21	CT	125	GLY	2.5
29	B1	2474	G	2.5
21	AT	211	ILE	2.5
1	C1	712	G	2.5
31	B3	75	G	2.5
40	BI	143	GLU	2.5
1	A1	491	C	2.5
29	D1	2490	C	2.5
32	BA	110	PHE	2.5
29	D1	764	U	2.5
5	AD	161	ASP	2.5
3	AB	92	ALA	2.5
29	B1	1951	C	2.5
29	D1	72	C	2.5
21	CT	203	THR	2.5
1	C1	486	G	2.5
29	D1	2478	C	2.4
61	Df	25	VAL	2.4
1	A1	191	C	2.4

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
14	CM	3	GLY	2.4
2	AA	28	ASN	2.4
54	BY	108	GLY	2.4
61	Df	53	GLN	2.4
29	D1	2498	U	2.4
29	B1	538	G	2.4
34	BC	125	SER	2.4
1	A1	665	U	2.4
29	D1	2553	U	2.4
29	B1	1195	A	2.4
37	BF	68	PRO	2.4
1	A1	369	A	2.4
29	D1	1565	G	2.4
15	AN	119	ALA	2.4
54	BY	24	LYS	2.4
1	C1	393	C	2.4
32	DA	64	SER	2.4
10	AI	9	LYS	2.4
21	CT	112	SER	2.4
42	DK	136	ALA	2.4
29	D1	847	A	2.3
29	D1	2265	C	2.3
32	DA	78	LYS	2.3
32	DA	157	PHE	2.3
29	B1	1243	G	2.3
29	B1	633	C	2.3
29	B1	1238	C	2.3
33	BB	74	GLU	2.3
29	D1	1560	G	2.3
1	A1	1707	A	2.3
13	CL	96	LYS	2.3
1	A1	1060	U	2.3
29	B1	1198	C	2.3
31	B3	77	A	2.3
1	A1	681	U	2.3
1	A1	1700	C	2.3
1	A1	1676	U	2.3
29	D1	492	U	2.3
2	AA	201	LEU	2.3
32	BA	146	GLY	2.3
19	AR	20	GLY	2.3
29	B1	718	G	2.3

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
36	DE	40	HIS	2.3
29	B1	981	U	2.3
9	AH	17	ALA	2.3
14	CM	69	LYS	2.3
1	C1	1710	U	2.3
1	C1	1200	G	2.3
29	D1	2569	A	2.3
32	BA	52	SER	2.3
1	A1	1677	C	2.3
32	BA	83	ASP	2.3
1	C1	272	U	2.3
2	AA	48	ILE	2.3
29	B1	2470	C	2.3
21	CT	50	ASP	2.2
29	B1	682	U	2.2
33	BB	25	GLY	2.2
29	D1	2469	G	2.2
1	A1	1702	A	2.2
48	DS	169	ALA	2.2
32	BA	113	SER	2.2
1	C1	135	A	2.2
1	C1	1694	A	2.2
29	D1	1643	A	2.2
21	CT	311	ARG	2.2
29	D1	718	G	2.2
3	CB	50	ILE	2.2
13	AL	73	MET	2.2
18	AQ	87	GLY	2.2
32	DA	51	GLY	2.2
29	B1	2397	A	2.2
29	D1	1027	A	2.2
1	C1	275	C	2.2
2	AA	27	ARG	2.2
12	AK	35	CYS	2.2
1	A1	1704	U	2.2
32	BA	10	ARG	2.2
32	BA	22	GLU	2.2
37	DF	86	ALA	2.2
55	BZ	105	ALA	2.2
3	CB	248	SER	2.2
21	AT	24	ALA	2.2
33	DB	153	GLY	2.2

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
29	D1	2258	U	2.2
44	DO	64	VAL	2.2
52	DW	120	LYS	2.2
5	CD	152	GLY	2.2
29	D1	830	A	2.2
33	DB	43	GLY	2.2
1	C1	1114	G	2.2
29	B1	1579	C	2.1
18	CQ	99	ALA	2.1
1	C1	523	G	2.1
29	D1	2503	G	2.1
21	CT	214	ALA	2.1
31	D3	146	U	2.1
32	DA	5	THR	2.1
29	D1	135	C	2.1
21	AT	79	TYR	2.1
29	B1	2461	A	2.1
1	A1	667	U	2.1
6	AE	100	LYS	2.1
33	DB	60	LYS	2.1
44	DO	115	VAL	2.1
11	CJ	142	TYR	2.1
32	DA	159	LEU	2.1
2	AA	49	ASN	2.1
9	CH	15	GLY	2.1
1	A1	1364	G	2.1
1	C1	1150	G	2.1
9	CH	12	GLN	2.1
29	D1	2479	C	2.1
33	DB	140	ASN	2.1
32	DA	191	VAL	2.1
29	B1	2497	U	2.1
1	C1	1703	C	2.1
32	DA	74	VAL	2.1
18	CQ	58	ARG	2.1
48	DS	165	LYS	2.1
48	DS	179	GLU	2.1
54	BY	23	GLY	2.1
55	BZ	95	ALA	2.1
29	B1	1580	A	2.1
21	AT	55	GLY	2.1
21	AT	158	PRO	2.1

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	C1	277	U	2.1
33	BB	234	LYS	2.1
1	C1	1702	A	2.1
39	BH	205	ALA	2.1
1	C1	779	U	2.1
29	D1	1558	A	2.0
39	BH	198	ALA	2.0
29	D1	3270	U	2.0
15	AN	33	GLN	2.0
29	D1	610	G	2.0
29	D1	2267	C	2.0
32	BA	11	GLU	2.0
29	B1	262	U	2.0
29	D1	2266	U	2.0
55	DZ	21	GLY	2.0
1	A1	1692	G	2.0
21	CT	129	LYS	2.0
39	DH	182	GLY	2.0
1	A1	718	U	2.0
1	C1	663	U	2.0
9	CH	105	LEU	2.0
21	AT	45	TRP	2.0
48	DS	181	ARG	2.0
7	CF	113	PRO	2.0
29	B1	2496	C	2.0
54	DY	52	TYR	2.0
9	AH	10	ASN	2.0
29	B1	2208	A	2.0
61	Bf	11	TYR	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

## 6.3 Carbohydrates ⓘ

There are no monosaccharides in this entry.

## 6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
74	OHX	B2	209	7/7	0.66	0.34	148,148,148,148	7
74	OHX	C1	1972	7/7	0.66	0.30	216,216,216,216	7
74	OHX	D1	3593	7/7	0.69	0.53	99,99,99,99	7
74	OHX	D1	3542	7/7	0.70	0.38	198,198,198,198	7
74	OHX	D3	211	7/7	0.70	0.41	137,137,137,137	7
74	OHX	C1	1950	7/7	0.72	0.28	215,215,215,215	7
74	OHX	D1	3525	7/7	0.72	0.27	106,106,106,106	7
74	OHX	A1	1930	7/7	0.73	0.43	228,228,228,228	7
74	OHX	D3	206	7/7	0.73	0.36	77,77,77,77	7
74	OHX	B1	3602	7/7	0.73	0.44	75,75,75,75	7
74	OHX	C1	1970	7/7	0.73	0.30	176,176,176,176	7
74	OHX	D3	205	7/7	0.74	0.25	199,199,199,199	7
74	OHX	A1	1983	7/7	0.74	0.59	122,122,122,122	7
74	OHX	B1	3571	7/7	0.74	0.48	176,176,176,176	7
74	OHX	C1	1978	7/7	0.75	0.29	145,145,145,145	7
74	OHX	D1	3573	7/7	0.76	0.43	135,135,135,135	7
74	OHX	C1	1957	7/7	0.76	0.38	226,226,226,226	7
74	OHX	D1	3551	7/7	0.76	0.30	120,120,120,120	7
74	OHX	B1	3552	7/7	0.77	0.32	138,138,138,138	7
74	OHX	C1	1979	7/7	0.77	0.33	190,190,190,190	7
74	OHX	D1	3605	7/7	0.77	0.47	93,93,93,93	7
74	OHX	D3	208	7/7	0.78	0.28	135,135,135,135	7
74	OHX	A1	1999	7/7	0.78	0.38	99,99,99,99	7
74	OHX	D1	3522	7/7	0.78	0.27	133,133,133,133	7
74	OHX	D1	3566	7/7	0.78	0.36	88,88,88,88	7
74	OHX	D1	3618	7/7	0.79	0.34	62,62,62,62	7
74	OHX	B1	3548	7/7	0.79	0.60	153,153,153,153	7
74	OHX	D1	3564	7/7	0.79	0.38	85,85,85,85	7
74	OHX	D1	3556	7/7	0.79	0.24	146,146,146,146	7
74	OHX	D1	3586	7/7	0.79	0.62	115,115,115,115	7
74	OHX	DE	301	7/7	0.79	0.24	302,302,302,302	7
74	OHX	C1	1998	7/7	0.80	0.62	129,129,129,129	7
74	OHX	D1	3535	7/7	0.80	0.32	142,142,142,142	7
74	OHX	B3	206	7/7	0.80	0.37	201,201,201,201	7
74	OHX	C1	1988	7/7	0.80	0.27	146,146,146,146	7
74	OHX	C1	1976	7/7	0.80	0.37	118,118,118,118	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	A1	1974	7/7	0.81	0.40	136,136,136,136	7
74	OHX	D1	3578	7/7	0.81	0.70	222,222,222,222	7
74	OHX	D1	3589	7/7	0.81	0.32	56,56,56,56	7
74	OHX	CS	102	7/7	0.81	0.35	184,184,184,184	7
74	OHX	B1	3535	7/7	0.81	0.28	170,170,170,170	7
74	OHX	C1	1958	7/7	0.81	0.23	153,153,153,153	7
74	OHX	C1	1962	7/7	0.82	0.30	180,180,180,180	7
74	OHX	B1	3577	7/7	0.82	0.47	148,148,148,148	7
74	OHX	B2	208	7/7	0.82	0.48	152,152,152,152	7
74	OHX	A1	1953	7/7	0.83	0.39	122,122,122,122	7
74	OHX	A1	1962	7/7	0.83	0.49	193,193,193,193	7
74	OHX	B1	3554	7/7	0.83	0.69	156,156,156,156	7
74	OHX	C1	1974	7/7	0.83	0.34	118,118,118,118	7
74	OHX	D1	3541	7/7	0.83	0.31	141,141,141,141	7
74	OHX	B1	3599	7/7	0.83	0.28	87,87,87,87	7
74	OHX	D1	3609	7/7	0.83	0.45	73,73,73,73	7
74	OHX	A1	1998	7/7	0.83	0.32	125,125,125,125	7
74	OHX	D1	3587	7/7	0.83	0.58	111,111,111,111	7
74	OHX	D1	3599	7/7	0.84	0.36	93,93,93,93	7
74	OHX	D1	3580	7/7	0.84	0.29	114,114,114,114	7
74	OHX	A1	2000	7/7	0.84	0.45	75,75,75,75	7
74	OHX	B1	3601	7/7	0.84	0.36	158,158,158,158	7
74	OHX	D1	3590	7/7	0.84	0.40	55,55,55,55	7
74	OHX	B1	3568	7/7	0.84	0.22	94,94,94,94	7
74	OHX	D1	3583	7/7	0.84	0.28	88,88,88,88	7
74	OHX	B1	3514	7/7	0.84	0.30	123,123,123,123	7
74	OHX	B1	3555	7/7	0.84	0.30	103,103,103,103	7
74	OHX	B2	210	7/7	0.84	0.43	131,131,131,131	7
74	OHX	C1	1952	7/7	0.84	0.21	239,239,239,239	7
74	OHX	B1	3600	7/7	0.85	0.34	135,135,135,135	7
74	OHX	D1	3488	7/7	0.85	0.20	141,141,141,141	7
74	OHX	B1	3580	7/7	0.85	0.38	84,84,84,84	7
74	OHX	C1	1968	7/7	0.85	0.30	103,103,103,103	7
74	OHX	C1	1938	7/7	0.85	0.30	191,191,191,191	7
74	OHX	B1	3562	7/7	0.85	0.59	130,130,130,130	7
74	OHX	C1	1990	7/7	0.85	0.27	105,105,105,105	7
74	OHX	C1	1993	7/7	0.85	0.28	93,93,93,93	7
74	OHX	B1	3621	7/7	0.85	0.36	83,83,83,83	7
74	OHX	D1	3509	7/7	0.85	0.33	120,120,120,120	7
74	OHX	B1	3560	7/7	0.85	0.33	105,105,105,105	7
74	OHX	A1	1993	7/7	0.85	0.33	108,108,108,108	7
74	OHX	C1	1966	7/7	0.86	0.42	127,127,127,127	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	D1	3553	7/7	0.86	0.25	145,145,145,145	7
74	OHX	B1	3511	7/7	0.86	0.39	160,160,160,160	7
74	OHX	B2	206	7/7	0.86	0.21	128,128,128,128	7
74	OHX	D1	3490	7/7	0.86	0.36	167,167,167,167	7
74	OHX	D1	3596	7/7	0.86	0.21	114,114,114,114	7
74	OHX	A1	1990	7/7	0.86	0.28	117,117,117,117	7
74	OHX	A1	2002	7/7	0.86	0.43	185,185,185,185	7
74	OHX	D1	3600	7/7	0.86	0.30	96,96,96,96	7
74	OHX	A1	1958	7/7	0.86	0.19	116,116,116,116	7
74	OHX	D1	3507	7/7	0.86	0.28	133,133,133,133	7
74	OHX	B1	3614	7/7	0.86	0.34	163,163,163,163	7
74	OHX	DO	301	7/7	0.86	0.23	285,285,285,285	7
74	OHX	B1	3561	7/7	0.86	0.50	280,280,280,280	7
74	OHX	C1	1954	7/7	0.87	0.25	116,116,116,116	7
74	OHX	D1	3616	7/7	0.87	0.46	150,150,150,150	7
74	OHX	A1	1978	7/7	0.87	0.36	139,139,139,139	7
74	OHX	D2	208	7/7	0.87	0.39	105,105,105,105	7
74	OHX	D1	3515	7/7	0.87	0.25	173,173,173,173	7
74	OHX	C1	1969	7/7	0.87	0.30	133,133,133,133	7
74	OHX	D2	209	7/7	0.87	0.32	74,74,74,74	7
74	OHX	B1	3526	7/7	0.87	0.25	174,174,174,174	7
74	OHX	C1	1959	7/7	0.87	0.29	166,166,166,166	7
74	OHX	D1	3521	7/7	0.87	0.24	163,163,163,163	7
74	OHX	B1	3583	7/7	0.87	0.28	126,126,126,126	7
74	OHX	D1	3563	7/7	0.87	0.35	99,99,99,99	7
74	OHX	B1	3493	7/7	0.87	0.21	135,135,135,135	7
74	OHX	B1	3533	7/7	0.87	0.34	149,149,149,149	7
74	OHX	B1	3581	7/7	0.87	0.34	106,106,106,106	7
74	OHX	B1	3529	7/7	0.87	0.14	171,171,171,171	7
74	OHX	D1	3529	7/7	0.87	0.28	130,130,130,130	7
74	OHX	D1	3585	7/7	0.87	0.24	102,102,102,102	7
74	OHX	BO	301	7/7	0.87	0.38	110,110,110,110	7
74	OHX	B1	3539	7/7	0.87	0.33	137,137,137,137	7
74	OHX	DJ	301	7/7	0.88	0.29	138,138,138,138	7
74	OHX	D1	3558	7/7	0.88	0.30	127,127,127,127	7
74	OHX	D1	3481	7/7	0.88	0.29	137,137,137,137	7
74	OHX	C1	1987	7/7	0.88	0.36	108,108,108,108	7
74	OHX	A1	1925	7/7	0.88	0.37	165,165,165,165	7
74	OHX	A1	1951	7/7	0.88	0.29	259,259,259,259	7
74	OHX	D1	3485	7/7	0.88	0.29	90,90,90,90	7
74	OHX	B1	3534	7/7	0.88	0.27	128,128,128,128	7
74	OHX	D1	3550	7/7	0.88	0.45	100,100,100,100	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	D1	3555	7/7	0.88	0.31	150,150,150,150	7
74	OHX	C1	1945	7/7	0.88	0.24	122,122,122,122	7
74	OHX	B2	204	7/7	0.88	0.23	132,132,132,132	7
74	OHX	B1	3544	7/7	0.88	0.30	130,130,130,130	7
74	OHX	C1	1985	7/7	0.88	0.30	153,153,153,153	7
74	OHX	B1	3474	7/7	0.88	0.26	179,179,179,179	7
74	OHX	A1	1964	7/7	0.88	0.74	85,85,85,85	7
74	OHX	D1	3569	7/7	0.88	0.29	88,88,88,88	7
74	OHX	D1	3572	7/7	0.88	0.34	91,91,91,91	7
74	OHX	A1	1985	7/7	0.88	0.33	86,86,86,86	7
74	OHX	D1	3611	7/7	0.88	0.36	82,82,82,82	7
74	OHX	B1	3603	7/7	0.88	0.29	63,63,63,63	7
74	OHX	D1	3624	7/7	0.88	0.42	95,95,95,95	7
74	OHX	B1	3541	7/7	0.89	0.28	117,117,117,117	7
74	OHX	A1	1966	7/7	0.89	0.42	120,120,120,120	7
74	OHX	C1	1980	7/7	0.89	0.34	162,162,162,162	7
74	OHX	B1	3595	7/7	0.89	0.32	73,73,73,73	7
74	OHX	D1	3557	7/7	0.89	0.25	148,148,148,148	7
74	OHX	D1	3546	7/7	0.89	0.32	105,105,105,105	7
74	OHX	B1	3579	7/7	0.89	0.30	47,47,47,47	7
74	OHX	D1	3460	7/7	0.89	0.22	138,138,138,138	7
74	OHX	C1	1967	7/7	0.89	0.25	100,100,100,100	7
74	OHX	D1	3503	7/7	0.89	0.25	120,120,120,120	7
74	OHX	A1	1955	7/7	0.89	0.34	110,110,110,110	7
74	OHX	B1	3523	7/7	0.89	0.30	150,150,150,150	7
74	OHX	B1	3597	7/7	0.89	0.35	137,137,137,137	7
74	OHX	D1	3506	7/7	0.89	0.32	131,131,131,131	7
74	OHX	D1	3524	7/7	0.89	0.28	162,162,162,162	7
74	OHX	D1	3548	7/7	0.89	0.25	77,77,77,77	7
74	OHX	B1	3538	7/7	0.89	0.28	93,93,93,93	7
74	OHX	A1	1970	7/7	0.89	0.23	66,66,66,66	7
74	OHX	A1	1946	7/7	0.89	0.19	153,153,153,153	7
74	OHX	D1	3597	7/7	0.89	0.65	222,222,222,222	7
74	OHX	B1	3545	7/7	0.89	0.34	82,82,82,82	7
74	OHX	D1	3606	7/7	0.89	0.24	63,63,63,63	7
74	OHX	D3	210	7/7	0.89	0.22	74,74,74,74	7
74	OHX	D1	3527	7/7	0.89	0.19	146,146,146,146	7
74	OHX	D1	3622	7/7	0.89	0.30	142,142,142,142	7
74	OHX	D1	3495	7/7	0.89	0.17	160,160,160,160	7
74	OHX	C1	1991	7/7	0.89	0.28	77,77,77,77	7
74	OHX	D1	3484	7/7	0.89	0.22	116,116,116,116	7
74	OHX	D1	3625	7/7	0.89	0.24	100,100,100,100	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	D1	3577	7/7	0.89	0.25	198,198,198,198	7
74	OHX	A1	1997	7/7	0.89	0.39	100,100,100,100	7
74	OHX	B1	3557	7/7	0.90	0.49	46,46,46,46	7
74	OHX	D1	3475	7/7	0.90	0.34	142,142,142,142	7
74	OHX	B2	207	7/7	0.90	0.49	104,104,104,104	7
74	OHX	A1	1943	7/7	0.90	0.19	176,176,176,176	7
74	OHX	B1	3518	7/7	0.90	0.22	105,105,105,105	7
74	OHX	B1	3515	7/7	0.90	0.39	119,119,119,119	7
74	OHX	B1	3591	7/7	0.90	0.30	55,55,55,55	7
74	OHX	B1	3592	7/7	0.90	0.40	106,106,106,106	7
74	OHX	B1	3575	7/7	0.90	0.35	123,123,123,123	7
74	OHX	D1	3552	7/7	0.90	0.39	115,115,115,115	7
74	OHX	B1	3490	7/7	0.90	0.24	109,109,109,109	7
74	OHX	B1	3572	7/7	0.90	0.36	56,56,56,56	7
74	OHX	B1	3565	7/7	0.90	0.26	120,120,120,120	7
74	OHX	B1	3584	7/7	0.90	0.48	99,99,99,99	7
74	OHX	A1	1965	7/7	0.90	0.25	114,114,114,114	7
74	OHX	B2	205	7/7	0.90	0.18	159,159,159,159	7
74	OHX	A1	1989	7/7	0.90	0.26	70,70,70,70	7
74	OHX	D1	3499	7/7	0.90	0.24	114,114,114,114	7
74	OHX	A1	1963	7/7	0.90	0.34	137,137,137,137	7
74	OHX	D1	3595	7/7	0.90	0.35	90,90,90,90	7
74	OHX	D1	3617	7/7	0.90	0.26	50,50,50,50	7
74	OHX	C1	1965	7/7	0.90	0.42	101,101,101,101	7
74	OHX	D1	3466	7/7	0.90	0.22	103,103,103,103	7
74	OHX	D1	3559	7/7	0.90	0.21	116,116,116,116	7
74	OHX	C1	1939	7/7	0.90	0.28	103,103,103,103	7
74	OHX	B1	3530	7/7	0.90	0.31	138,138,138,138	7
74	OHX	D1	3531	7/7	0.90	0.32	136,136,136,136	7
74	OHX	D1	3620	7/7	0.90	0.27	78,78,78,78	7
74	OHX	A1	1947	7/7	0.90	0.30	143,143,143,143	7
74	OHX	D1	3508	7/7	0.90	0.22	88,88,88,88	7
74	OHX	D2	204	7/7	0.90	0.20	116,116,116,116	7
74	OHX	A1	1939	7/7	0.90	0.19	100,100,100,100	7
74	OHX	A1	1968	7/7	0.90	0.29	180,180,180,180	7
74	OHX	B1	3487	7/7	0.90	0.23	116,116,116,116	7
74	OHX	A1	1954	7/7	0.90	0.20	153,153,153,153	7
74	OHX	C1	1973	7/7	0.90	0.21	95,95,95,95	7
74	OHX	B1	3610	7/7	0.90	0.28	68,68,68,68	7
74	OHX	D1	3536	7/7	0.90	0.25	140,140,140,140	7
74	OHX	B1	3620	7/7	0.91	0.31	58,58,58,58	7
74	OHX	B1	3613	7/7	0.91	0.46	93,93,93,93	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	A1	1996	7/7	0.91	0.24	100,100,100,100	7
74	OHX	C1	1956	7/7	0.91	0.31	170,170,170,170	7
74	OHX	D1	3477	7/7	0.91	0.15	142,142,142,142	7
74	OHX	A1	1933	7/7	0.91	0.20	152,152,152,152	7
74	OHX	B1	3607	7/7	0.91	0.32	44,44,44,44	7
74	OHX	C1	2000	7/7	0.91	0.38	82,82,82,82	7
74	OHX	B1	3556	7/7	0.91	0.25	104,104,104,104	7
74	OHX	B1	3586	7/7	0.91	0.35	116,116,116,116	7
74	OHX	B1	3589	7/7	0.91	0.50	85,85,85,85	7
74	OHX	C1	1999	7/7	0.91	0.26	41,41,41,41	7
74	OHX	A1	1994	7/7	0.91	0.25	123,123,123,123	7
74	OHX	B1	3593	7/7	0.91	0.24	46,46,46,46	7
74	OHX	B1	3615	7/7	0.91	0.34	49,49,49,49	7
74	OHX	A1	1984	7/7	0.91	0.21	65,65,65,65	7
74	OHX	D1	3539	7/7	0.91	0.24	69,69,69,69	7
74	OHX	D1	3476	7/7	0.91	0.28	100,100,100,100	7
74	OHX	B1	3546	7/7	0.91	0.41	148,148,148,148	7
74	OHX	B1	3510	7/7	0.91	0.33	153,153,153,153	7
74	OHX	D1	3594	7/7	0.91	0.30	30,30,30,30	7
74	OHX	D1	3473	7/7	0.91	0.16	123,123,123,123	7
74	OHX	A1	1942	7/7	0.91	0.30	97,97,97,97	7
74	OHX	A1	1935	7/7	0.91	0.23	156,156,156,156	7
74	OHX	B1	3502	7/7	0.91	0.28	166,166,166,166	7
74	OHX	D1	3601	7/7	0.91	0.57	99,99,99,99	7
74	OHX	D1	3532	7/7	0.91	0.26	102,102,102,102	7
74	OHX	D1	3513	7/7	0.91	0.27	160,160,160,160	7
74	OHX	B1	3594	7/7	0.91	0.33	100,100,100,100	7
74	OHX	A1	1969	7/7	0.91	0.26	87,87,87,87	7
74	OHX	Dd	102	7/7	0.91	0.23	118,118,118,118	7
74	OHX	D1	3457	7/7	0.91	0.32	130,130,130,130	7
74	OHX	D1	3602	7/7	0.91	0.31	109,109,109,109	7
74	OHX	B1	3520	7/7	0.92	0.34	109,109,109,109	7
74	OHX	A1	1932	7/7	0.92	0.20	142,142,142,142	7
74	OHX	D1	3526	7/7	0.92	0.18	158,158,158,158	7
74	OHX	C1	1989	7/7	0.92	0.53	114,114,114,114	7
74	OHX	B3	209	7/7	0.92	0.30	99,99,99,99	7
74	OHX	D1	3568	7/7	0.92	0.35	92,92,92,92	7
74	OHX	D1	3562	7/7	0.92	0.18	121,121,121,121	7
74	OHX	C1	1977	7/7	0.92	0.26	102,102,102,102	7
74	OHX	C1	1982	7/7	0.92	0.27	106,106,106,106	7
74	OHX	C1	1947	7/7	0.92	0.28	70,70,70,70	7
74	OHX	B1	3612	7/7	0.92	0.28	45,45,45,45	7

*Continued on next page...*



*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
74	OHX	B1	3507	7/7	0.92	0.26	104,104,104,104	7
74	OHX	A1	1938	7/7	0.92	0.19	155,155,155,155	7
74	OHX	D1	3621	7/7	0.92	0.25	67,67,67,67	7
74	OHX	D1	3554	7/7	0.92	0.26	122,122,122,122	7
74	OHX	B1	3617	7/7	0.92	0.38	90,90,90,90	7
74	OHX	A1	1977	7/7	0.92	0.30	119,119,119,119	7
74	OHX	D1	3516	7/7	0.92	0.33	138,138,138,138	7
74	OHX	D1	3471	7/7	0.92	0.28	260,260,260,260	7
74	OHX	C1	1997	7/7	0.92	0.24	36,36,36,36	7
74	OHX	D3	209	7/7	0.92	0.20	127,127,127,127	7
74	OHX	B1	3506	7/7	0.92	0.29	53,53,53,53	7
74	OHX	D1	3610	7/7	0.92	0.47	94,94,94,94	7
74	OHX	A1	1995	7/7	0.92	0.35	80,80,80,80	7
74	OHX	B1	3566	7/7	0.92	0.26	107,107,107,107	7
74	OHX	B1	3563	7/7	0.92	0.19	152,152,152,152	7
74	OHX	D1	3575	7/7	0.92	0.29	84,84,84,84	7
74	OHX	C1	1992	7/7	0.92	0.41	76,76,76,76	7
74	OHX	C1	1981	7/7	0.92	0.38	87,87,87,87	7
74	OHX	B1	3588	7/7	0.92	0.32	78,78,78,78	7
74	OHX	B1	3498	7/7	0.92	0.32	83,83,83,83	7
74	OHX	B1	3504	7/7	0.92	0.35	140,140,140,140	7
74	OHX	B1	3559	7/7	0.92	0.23	68,68,68,68	7
74	OHX	C1	1995	7/7	0.92	0.32	51,51,51,51	7
74	OHX	CT	401	7/7	0.92	0.23	117,117,117,117	7
74	OHX	C1	1971	7/7	0.92	0.29	131,131,131,131	7
74	OHX	D1	3505	7/7	0.92	0.36	160,160,160,160	7
74	OHX	C1	1994	7/7	0.92	0.29	47,47,47,47	7
74	OHX	D1	3482	7/7	0.92	0.21	107,107,107,107	7
74	OHX	A1	1981	7/7	0.92	0.26	128,128,128,128	7
74	OHX	B1	3604	7/7	0.92	0.30	53,53,53,53	7
74	OHX	B1	3611	7/7	0.92	0.33	68,68,68,68	7
74	OHX	D1	3519	7/7	0.92	0.37	111,111,111,111	7
74	OHX	B1	3525	7/7	0.92	0.25	54,54,54,54	7
74	OHX	A1	1952	7/7	0.92	0.32	110,110,110,110	7
74	OHX	D1	3469	7/7	0.92	0.23	152,152,152,152	7
74	OHX	A1	1971	7/7	0.92	0.21	94,94,94,94	7
74	OHX	C1	1996	7/7	0.92	0.43	86,86,86,86	7
74	OHX	D1	3588	7/7	0.92	0.24	336,336,336,336	7
74	OHX	D1	3598	7/7	0.92	0.28	65,65,65,65	7
74	OHX	A1	1940	7/7	0.93	0.34	166,166,166,166	7
74	OHX	B1	3609	7/7	0.93	0.35	80,80,80,80	7
74	OHX	D1	3547	7/7	0.93	0.19	64,64,64,64	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	B1	3550	7/7	0.93	0.19	137,137,137,137	7
74	OHX	D1	3534	7/7	0.93	0.41	142,142,142,142	7
74	OHX	D1	3467	7/7	0.93	0.28	129,129,129,129	7
74	OHX	B1	3517	7/7	0.93	0.30	111,111,111,111	7
74	OHX	B1	3576	7/7	0.93	0.21	86,86,86,86	7
74	OHX	D1	3545	7/7	0.93	0.42	77,77,77,77	7
74	OHX	D1	3498	7/7	0.93	0.28	103,103,103,103	7
74	OHX	B2	203	7/7	0.93	0.36	174,174,174,174	7
74	OHX	A1	1950	7/7	0.93	0.17	127,127,127,127	7
74	OHX	B1	3608	7/7	0.93	0.58	75,75,75,75	7
74	OHX	D1	3480	7/7	0.93	0.19	127,127,127,127	7
74	OHX	D2	207	7/7	0.93	0.22	111,111,111,111	7
74	OHX	D1	3483	7/7	0.93	0.23	98,98,98,98	7
74	OHX	B3	210	7/7	0.93	0.40	64,64,64,64	7
74	OHX	D2	202	7/7	0.93	0.25	106,106,106,106	7
74	OHX	B1	3476	7/7	0.93	0.20	102,102,102,102	7
74	OHX	A1	1924	7/7	0.93	0.21	150,150,150,150	7
74	OHX	C1	1942	7/7	0.93	0.20	112,112,112,112	7
74	OHX	B3	212	7/7	0.93	0.21	98,98,98,98	7
74	OHX	B1	3606	7/7	0.93	0.38	74,74,74,74	7
74	OHX	A1	1921	7/7	0.93	0.27	148,148,148,148	7
74	OHX	D1	3613	7/7	0.93	0.33	57,57,57,57	7
74	OHX	D1	3579	7/7	0.93	0.30	44,44,44,44	7
74	OHX	B1	3573	7/7	0.93	0.23	111,111,111,111	7
74	OHX	B1	3505	7/7	0.93	0.17	134,134,134,134	7
74	OHX	A1	1991	7/7	0.93	0.31	98,98,98,98	7
74	OHX	B1	3532	7/7	0.93	0.43	172,172,172,172	7
74	OHX	A1	1982	7/7	0.93	0.19	148,148,148,148	7
74	OHX	A1	1988	7/7	0.93	0.36	25,25,25,25	7
74	OHX	C1	1934	7/7	0.93	0.20	141,141,141,141	7
74	OHX	B1	3469	7/7	0.93	0.33	169,169,169,169	7
74	OHX	D1	3500	7/7	0.93	0.30	139,139,139,139	7
74	OHX	D1	3433	7/7	0.93	0.23	128,128,128,128	7
74	OHX	B1	3437	7/7	0.94	0.24	156,156,156,156	7
74	OHX	C1	1935	7/7	0.94	0.17	93,93,93,93	7
74	OHX	B1	3503	7/7	0.94	0.18	86,86,86,86	7
74	OHX	C1	1948	7/7	0.94	0.20	117,117,117,117	7
74	OHX	B1	3509	7/7	0.94	0.23	124,124,124,124	7
74	OHX	A1	1927	7/7	0.94	0.22	139,139,139,139	7
74	OHX	C1	1975	7/7	0.94	0.24	119,119,119,119	7
74	OHX	B1	3567	7/7	0.94	0.10	126,126,126,126	7
74	OHX	A1	1959	7/7	0.94	0.26	110,110,110,110	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	B1	3527	7/7	0.94	0.21	84,84,84,84	7
74	OHX	C1	1963	7/7	0.94	0.27	94,94,94,94	7
74	OHX	D1	3591	7/7	0.94	0.22	43,43,43,43	7
74	OHX	B1	3578	7/7	0.94	0.24	112,112,112,112	7
74	OHX	Bd	102	7/7	0.94	0.19	73,73,73,73	7
74	OHX	C1	1986	7/7	0.94	0.20	169,169,169,169	7
74	OHX	B1	3574	7/7	0.94	0.44	136,136,136,136	7
74	OHX	D2	203	7/7	0.94	0.25	94,94,94,94	7
74	OHX	D1	3514	7/7	0.94	0.30	173,173,173,173	7
74	OHX	D1	3489	7/7	0.94	0.32	75,75,75,75	7
74	OHX	A1	1944	7/7	0.94	0.21	108,108,108,108	7
74	OHX	C1	1933	7/7	0.94	0.21	111,111,111,111	7
74	OHX	A1	1980	7/7	0.94	0.19	136,136,136,136	7
74	OHX	A1	1973	7/7	0.94	0.28	101,101,101,101	7
74	OHX	A1	1948	7/7	0.94	0.27	106,106,106,106	7
74	OHX	B1	3470	7/7	0.94	0.19	122,122,122,122	7
74	OHX	B1	3543	7/7	0.94	0.15	102,102,102,102	7
74	OHX	D1	3567	7/7	0.94	0.14	106,106,106,106	7
74	OHX	A1	1987	7/7	0.94	0.23	72,72,72,72	7
74	OHX	D1	3528	7/7	0.94	0.35	96,96,96,96	7
74	OHX	B1	3549	7/7	0.94	0.30	86,86,86,86	7
74	OHX	B1	3524	7/7	0.94	0.24	97,97,97,97	7
74	OHX	D1	3501	7/7	0.94	0.17	102,102,102,102	7
74	OHX	D1	3581	7/7	0.94	0.26	60,60,60,60	7
74	OHX	B1	3491	7/7	0.94	0.31	99,99,99,99	7
74	OHX	B3	208	7/7	0.94	0.19	79,79,79,79	7
74	OHX	A1	1922	7/7	0.94	0.24	133,133,133,133	7
74	OHX	DO	302	7/7	0.94	0.24	77,77,77,77	7
74	OHX	D1	3493	7/7	0.94	0.17	126,126,126,126	7
74	OHX	B1	3598	7/7	0.94	0.22	100,100,100,100	7
74	OHX	A1	1941	7/7	0.94	0.19	124,124,124,124	7
74	OHX	B1	3569	7/7	0.94	0.18	95,95,95,95	7
74	OHX	C1	1919	7/7	0.94	0.26	159,159,159,159	7
74	OHX	D3	207	7/7	0.94	0.23	123,123,123,123	7
74	OHX	D1	3604	7/7	0.94	0.14	44,44,44,44	7
74	OHX	D2	205	7/7	0.94	0.22	84,84,84,84	7
74	OHX	B1	3521	7/7	0.94	0.25	107,107,107,107	7
74	OHX	D1	3510	7/7	0.94	0.23	108,108,108,108	7
74	OHX	C1	1949	7/7	0.94	0.19	97,97,97,97	7
74	OHX	D1	3614	7/7	0.94	0.49	83,83,83,83	7
74	OHX	B1	3585	7/7	0.94	0.29	197,197,197,197	7
74	OHX	B1	3497	7/7	0.94	0.24	103,103,103,103	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	B1	3438	7/7	0.94	0.17	168,168,168,168	7
74	OHX	D1	3454	7/7	0.94	0.19	117,117,117,117	7
74	OHX	A1	1949	7/7	0.94	0.20	101,101,101,101	7
74	OHX	BC	401	7/7	0.94	0.21	66,66,66,66	7
74	OHX	C1	1984	7/7	0.94	0.27	78,78,78,78	7
74	OHX	B1	3547	7/7	0.94	0.28	117,117,117,117	7
74	OHX	D1	3538	7/7	0.94	0.25	87,87,87,87	7
74	OHX	B1	3558	7/7	0.94	0.21	130,130,130,130	7
74	OHX	B1	3582	7/7	0.94	0.27	83,83,83,83	7
74	OHX	AT	401	7/7	0.94	0.36	207,207,207,207	7
74	OHX	B1	3619	7/7	0.94	0.22	85,85,85,85	7
74	OHX	B1	3488	7/7	0.94	0.18	104,104,104,104	7
74	OHX	A1	2001	7/7	0.95	0.24	26,26,26,26	7
74	OHX	B1	3531	7/7	0.95	0.30	65,65,65,65	7
74	OHX	D1	3496	7/7	0.95	0.27	155,155,155,155	7
74	OHX	A1	1926	7/7	0.95	0.24	87,87,87,87	7
74	OHX	D1	3537	7/7	0.95	0.23	74,74,74,74	7
74	OHX	D1	3504	7/7	0.95	0.16	101,101,101,101	7
74	OHX	B1	3481	7/7	0.95	0.23	133,133,133,133	7
74	OHX	C1	1931	7/7	0.95	0.19	130,130,130,130	7
74	OHX	C1	1946	7/7	0.95	0.22	63,63,63,63	7
74	OHX	B1	3513	7/7	0.95	0.23	171,171,171,171	7
74	OHX	D1	3561	7/7	0.95	0.21	65,65,65,65	7
74	OHX	B1	3484	7/7	0.95	0.25	143,143,143,143	7
74	OHX	B1	3596	7/7	0.95	0.33	56,56,56,56	7
74	OHX	B1	3457	7/7	0.95	0.23	147,147,147,147	7
74	OHX	D1	3512	7/7	0.95	0.20	108,108,108,108	7
74	OHX	B3	203	7/7	0.95	0.21	140,140,140,140	7
74	OHX	B1	3553	7/7	0.95	0.19	66,66,66,66	7
74	OHX	A1	1915	7/7	0.95	0.18	129,129,129,129	7
74	OHX	D1	3494	7/7	0.95	0.25	105,105,105,105	7
74	OHX	A1	1960	7/7	0.95	0.38	70,70,70,70	7
74	OHX	B1	3446	7/7	0.95	0.23	113,113,113,113	7
74	OHX	B1	3465	7/7	0.95	0.17	142,142,142,142	7
74	OHX	B1	3522	7/7	0.95	0.16	129,129,129,129	7
74	OHX	B1	3528	7/7	0.95	0.37	158,158,158,158	7
74	OHX	D1	3517	7/7	0.95	0.29	126,126,126,126	7
74	OHX	B3	207	7/7	0.95	0.18	68,68,68,68	7
74	OHX	D1	3472	7/7	0.95	0.21	185,185,185,185	7
74	OHX	CI	201	7/7	0.95	0.31	143,143,143,143	7
74	OHX	C1	1983	7/7	0.95	0.19	59,59,59,59	7
74	OHX	B1	3448	7/7	0.95	0.19	124,124,124,124	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	C1	1932	7/7	0.95	0.18	115,115,115,115	7
74	OHX	D1	3544	7/7	0.95	0.43	127,127,127,127	7
74	OHX	C1	1951	7/7	0.95	0.15	152,152,152,152	7
74	OHX	D1	3607	7/7	0.95	0.29	78,78,78,78	7
74	OHX	A1	1937	7/7	0.95	0.15	158,158,158,158	7
74	OHX	D1	3619	7/7	0.95	0.21	86,86,86,86	7
74	OHX	AL	201	7/7	0.95	0.20	122,122,122,122	7
74	OHX	D1	3523	7/7	0.95	0.19	106,106,106,106	7
74	OHX	D1	3603	7/7	0.95	0.43	114,114,114,114	7
74	OHX	D1	3615	7/7	0.95	0.27	73,73,73,73	7
74	OHX	B1	3587	7/7	0.95	0.15	154,154,154,154	7
74	OHX	C1	1955	7/7	0.95	0.20	106,106,106,106	7
74	OHX	D1	3530	7/7	0.95	0.19	51,51,51,51	7
74	OHX	A1	1934	7/7	0.95	0.25	122,122,122,122	7
74	OHX	C1	1910	7/7	0.95	0.20	138,138,138,138	7
74	OHX	D1	3576	7/7	0.95	0.21	76,76,76,76	7
74	OHX	A1	1919	7/7	0.95	0.25	141,141,141,141	7
74	OHX	C1	1930	7/7	0.95	0.17	112,112,112,112	7
74	OHX	D1	3549	7/7	0.95	0.27	127,127,127,127	7
74	OHX	A1	1936	7/7	0.95	0.20	129,129,129,129	7
74	OHX	B2	202	7/7	0.95	0.19	106,106,106,106	7
74	OHX	D1	3459	7/7	0.95	0.21	96,96,96,96	7
74	OHX	B1	3459	7/7	0.95	0.16	160,160,160,160	7
74	OHX	B1	3616	7/7	0.95	0.28	103,103,103,103	7
74	OHX	D1	3533	7/7	0.95	0.27	92,92,92,92	7
74	OHX	C1	1944	7/7	0.95	0.12	134,134,134,134	7
74	OHX	B1	3494	7/7	0.95	0.18	118,118,118,118	7
74	OHX	D1	3468	7/7	0.95	0.26	130,130,130,130	7
74	OHX	D1	3511	7/7	0.95	0.28	85,85,85,85	7
74	OHX	B1	3473	7/7	0.95	0.17	91,91,91,91	7
74	OHX	C1	1926	7/7	0.95	0.21	96,96,96,96	7
74	OHX	A1	1972	7/7	0.96	0.17	87,87,87,87	7
74	OHX	C1	2001	7/7	0.96	0.25	130,130,130,130	7
74	OHX	A1	1917	7/7	0.96	0.14	130,130,130,130	7
74	OHX	Dg	101	7/7	0.96	0.16	69,69,69,69	7
74	OHX	B1	3570	7/7	0.96	0.28	91,91,91,91	7
74	OHX	B1	3486	7/7	0.96	0.22	104,104,104,104	7
74	OHX	B1	3479	7/7	0.96	0.35	145,145,145,145	7
74	OHX	D1	3574	7/7	0.96	0.19	114,114,114,114	7
74	OHX	B1	3456	7/7	0.96	0.25	106,106,106,106	7
74	OHX	A1	1928	7/7	0.96	0.15	99,99,99,99	7
74	OHX	C1	1927	7/7	0.96	0.14	149,149,149,149	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	D1	3463	7/7	0.96	0.18	140,140,140,140	7
74	OHX	D1	3478	7/7	0.96	0.17	117,117,117,117	7
74	OHX	C1	1916	7/7	0.96	0.23	169,169,169,169	7
74	OHX	A1	1986	7/7	0.96	0.18	98,98,98,98	7
74	OHX	B1	3462	7/7	0.96	0.21	90,90,90,90	7
74	OHX	C1	1941	7/7	0.96	0.18	109,109,109,109	7
74	OHX	D1	3486	7/7	0.96	0.24	143,143,143,143	7
74	OHX	B1	3461	7/7	0.96	0.19	101,101,101,101	7
74	OHX	D1	3464	7/7	0.96	0.18	92,92,92,92	7
74	OHX	D1	3520	7/7	0.96	0.18	109,109,109,109	7
74	OHX	B1	3463	7/7	0.96	0.16	137,137,137,137	7
74	OHX	A1	1920	7/7	0.96	0.15	126,126,126,126	7
74	OHX	A1	1957	7/7	0.96	0.18	129,129,129,129	7
74	OHX	C1	1913	7/7	0.96	0.22	149,149,149,149	7
74	OHX	B1	3455	7/7	0.96	0.20	134,134,134,134	7
74	OHX	D1	3497	7/7	0.96	0.37	99,99,99,99	7
74	OHX	B1	3605	7/7	0.96	0.26	52,52,52,52	7
74	OHX	B1	3501	7/7	0.96	0.31	99,99,99,99	7
74	OHX	B1	3495	7/7	0.96	0.31	108,108,108,108	7
74	OHX	DC	401	7/7	0.96	0.23	93,93,93,93	7
74	OHX	C1	1943	7/7	0.96	0.15	141,141,141,141	7
74	OHX	A1	1910	7/7	0.96	0.15	146,146,146,146	7
74	OHX	D1	3518	7/7	0.96	0.21	108,108,108,108	7
74	OHX	D1	3458	7/7	0.96	0.17	103,103,103,103	7
74	OHX	C1	1937	7/7	0.96	0.17	124,124,124,124	7
74	OHX	D1	3540	7/7	0.96	0.20	85,85,85,85	7
74	OHX	B1	3439	7/7	0.96	0.24	90,90,90,90	7
74	OHX	A1	1979	7/7	0.96	0.19	81,81,81,81	7
74	OHX	D1	3491	7/7	0.96	0.25	37,37,37,37	7
74	OHX	B1	3564	7/7	0.96	0.25	126,126,126,126	7
74	OHX	C1	1936	7/7	0.96	0.34	126,126,126,126	7
74	OHX	D1	3592	7/7	0.96	0.23	118,118,118,118	7
74	OHX	A1	1992	7/7	0.96	0.43	45,45,45,45	7
74	OHX	A1	1914	7/7	0.96	0.21	145,145,145,145	7
74	OHX	A1	1945	7/7	0.96	0.18	108,108,108,108	7
74	OHX	C1	1961	7/7	0.96	0.18	101,101,101,101	7
74	OHX	B1	3537	7/7	0.96	0.21	56,56,56,56	7
74	OHX	A1	1929	7/7	0.96	0.14	114,114,114,114	7
74	OHX	D1	3462	7/7	0.96	0.16	114,114,114,114	7
74	OHX	B1	3500	7/7	0.96	0.15	116,116,116,116	7
74	OHX	B1	3431	7/7	0.96	0.19	125,125,125,125	7
74	OHX	B1	3536	7/7	0.96	0.28	324,324,324,324	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	B1	3542	7/7	0.96	0.38	64,64,64,64	7
74	OHX	D1	3584	7/7	0.96	0.27	47,47,47,47	7
74	OHX	D1	3560	7/7	0.96	0.23	82,82,82,82	7
74	OHX	C1	1940	7/7	0.96	0.25	139,139,139,139	7
74	OHX	B1	3551	7/7	0.96	0.43	84,84,84,84	7
74	OHX	D1	3623	7/7	0.96	0.33	23,23,23,23	7
74	OHX	A1	1908	7/7	0.96	0.24	96,96,96,96	7
74	OHX	D1	3612	7/7	0.96	0.23	36,36,36,36	7
74	OHX	B1	3512	7/7	0.96	0.22	113,113,113,113	7
74	OHX	D1	3461	7/7	0.96	0.18	128,128,128,128	7
74	OHX	B1	3425	7/7	0.96	0.18	108,108,108,108	7
74	OHX	D1	3570	7/7	0.96	0.30	49,49,49,49	7
74	OHX	B1	3618	7/7	0.96	0.24	109,109,109,109	7
74	OHX	B1	3590	7/7	0.96	0.21	69,69,69,69	7
74	OHX	C1	1960	7/7	0.96	0.13	111,111,111,111	7
74	OHX	B3	205	7/7	0.96	0.14	123,123,123,123	7
74	OHX	B1	3516	7/7	0.96	0.21	136,136,136,136	7
74	OHX	C1	1923	7/7	0.96	0.23	123,123,123,123	7
74	OHX	B1	3472	7/7	0.96	0.25	132,132,132,132	7
74	OHX	A1	1923	7/7	0.96	0.17	98,98,98,98	7
74	OHX	C1	1908	7/7	0.97	0.15	104,104,104,104	7
74	OHX	D1	3435	7/7	0.97	0.18	92,92,92,92	7
74	OHX	D3	203	7/7	0.97	0.17	86,86,86,86	7
74	OHX	B1	3454	7/7	0.97	0.33	123,123,123,123	7
74	OHX	D1	3571	7/7	0.97	0.17	77,77,77,77	7
74	OHX	B1	3519	7/7	0.97	0.28	115,115,115,115	7
74	OHX	B1	3468	7/7	0.97	0.28	89,89,89,89	7
74	OHX	B1	3508	7/7	0.97	0.25	113,113,113,113	7
74	OHX	B1	3489	7/7	0.97	0.11	129,129,129,129	7
74	OHX	C1	1905	7/7	0.97	0.13	114,114,114,114	7
74	OHX	A1	1976	7/7	0.97	0.19	51,51,51,51	7
74	OHX	A1	1918	7/7	0.97	0.18	94,94,94,94	7
74	OHX	B1	3475	7/7	0.97	0.20	84,84,84,84	7
74	OHX	B1	3480	7/7	0.97	0.18	85,85,85,85	7
74	OHX	B1	3436	7/7	0.97	0.17	104,104,104,104	7
74	OHX	C1	1924	7/7	0.97	0.14	82,82,82,82	7
74	OHX	B1	3426	7/7	0.97	0.17	111,111,111,111	7
74	OHX	B1	3478	7/7	0.97	0.14	110,110,110,110	7
74	OHX	B1	3453	7/7	0.97	0.24	127,127,127,127	7
74	OHX	D1	3451	7/7	0.97	0.22	112,112,112,112	7
74	OHX	D1	3487	7/7	0.97	0.24	103,103,103,103	7
74	OHX	C1	1922	7/7	0.97	0.18	142,142,142,142	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	B1	3485	7/7	0.97	0.23	110,110,110,110	7
74	OHX	D1	3447	7/7	0.97	0.20	142,142,142,142	7
74	OHX	D1	3479	7/7	0.97	0.24	99,99,99,99	7
74	OHX	D1	3543	7/7	0.97	0.19	45,45,45,45	7
74	OHX	D1	3502	7/7	0.97	0.14	79,79,79,79	7
74	OHX	D1	3406	7/7	0.97	0.13	107,107,107,107	0
74	OHX	C1	1921	7/7	0.97	0.09	145,145,145,145	7
74	OHX	B1	3429	7/7	0.97	0.17	93,93,93,93	7
74	OHX	A1	1961	7/7	0.97	0.10	105,105,105,105	7
74	OHX	D1	3470	7/7	0.97	0.15	84,84,84,84	7
74	OHX	CS	101	7/7	0.97	0.18	46,46,46,46	7
74	OHX	B1	3496	7/7	0.97	0.15	122,122,122,122	7
74	OHX	C1	1909	7/7	0.97	0.14	130,130,130,130	7
74	OHX	D1	3465	7/7	0.97	0.16	101,101,101,101	7
74	OHX	B1	3443	7/7	0.97	0.21	134,134,134,134	7
74	OHX	D3	204	7/7	0.97	0.19	120,120,120,120	7
74	OHX	A1	1956	7/7	0.97	0.12	159,159,159,159	7
74	OHX	C1	1915	7/7	0.97	0.21	120,120,120,120	7
74	OHX	A1	1906	7/7	0.97	0.15	97,97,97,97	7
74	OHX	C1	1928	7/7	0.97	0.17	165,165,165,165	7
74	OHX	D1	3439	7/7	0.97	0.23	107,107,107,107	7
74	OHX	A1	1911	7/7	0.97	0.20	112,112,112,112	7
74	OHX	B1	3433	7/7	0.97	0.19	98,98,98,98	7
74	OHX	A1	1975	7/7	0.97	0.17	67,67,67,67	7
74	OHX	D1	3416	7/7	0.97	0.16	108,108,108,108	7
74	OHX	B1	3482	7/7	0.97	0.19	111,111,111,111	7
74	OHX	D1	3565	7/7	0.97	0.23	60,60,60,60	7
74	OHX	D1	3443	7/7	0.97	0.16	96,96,96,96	7
74	OHX	D1	3425	7/7	0.97	0.16	126,126,126,126	7
74	OHX	B1	3430	7/7	0.97	0.14	99,99,99,99	7
74	OHX	D1	3413	7/7	0.97	0.23	114,114,114,114	7
74	OHX	A1	1912	7/7	0.97	0.16	125,125,125,125	7
74	OHX	A1	1967	7/7	0.97	0.30	96,96,96,96	7
74	OHX	D1	3453	7/7	0.97	0.24	124,124,124,124	7
74	OHX	B1	3444	7/7	0.97	0.15	111,111,111,111	7
74	OHX	B1	3449	7/7	0.97	0.18	105,105,105,105	7
74	OHX	A1	1905	7/7	0.97	0.17	118,118,118,118	0
74	OHX	A1	1916	7/7	0.97	0.14	91,91,91,91	7
74	OHX	D3	212	7/7	0.97	0.27	71,71,71,71	7
74	OHX	D2	206	7/7	0.97	0.16	85,85,85,85	7
74	OHX	B1	3451	7/7	0.97	0.17	86,86,86,86	7
74	OHX	B1	3492	7/7	0.97	0.14	70,70,70,70	7

*Continued on next page...*



*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	A1	1909	7/7	0.97	0.16	115,115,115,115	7
74	OHX	C1	1912	7/7	0.97	0.15	117,117,117,117	7
74	OHX	D1	3608	7/7	0.97	0.23	14,14,14,14	7
74	OHX	B1	3410	7/7	0.97	0.19	111,111,111,111	0
74	OHX	B1	3483	7/7	0.97	0.28	71,71,71,71	7
74	OHX	B1	3499	7/7	0.97	0.16	123,123,123,123	7
74	OHX	D1	3448	7/7	0.97	0.21	107,107,107,107	7
74	OHX	D1	3474	7/7	0.97	0.30	118,118,118,118	7
74	OHX	B1	3467	7/7	0.97	0.15	119,119,119,119	7
74	OHX	B1	3403	7/7	0.98	0.25	126,126,126,126	0
74	OHX	B1	3471	7/7	0.98	0.11	130,130,130,130	7
74	OHX	D1	3418	7/7	0.98	0.22	103,103,103,103	0
74	OHX	D1	3445	7/7	0.98	0.20	101,101,101,101	7
74	OHX	B1	3414	7/7	0.98	0.14	106,106,106,106	0
74	OHX	C1	1929	7/7	0.98	0.19	90,90,90,90	7
74	OHX	B1	3452	7/7	0.98	0.19	134,134,134,134	7
74	OHX	B2	201	7/7	0.98	0.10	141,141,141,141	7
74	OHX	D1	3419	7/7	0.98	0.17	92,92,92,92	0
74	OHX	D1	3582	7/7	0.98	0.13	71,71,71,71	7
74	OHX	B1	3435	7/7	0.98	0.28	130,130,130,130	7
74	OHX	B1	3466	7/7	0.98	0.17	120,120,120,120	7
74	OHX	B1	3409	7/7	0.98	0.18	122,122,122,122	0
74	OHX	B1	3418	7/7	0.98	0.16	106,106,106,106	0
74	OHX	D1	3424	7/7	0.98	0.13	125,125,125,125	7
74	OHX	D1	3442	7/7	0.98	0.16	126,126,126,126	7
74	OHX	B1	3427	7/7	0.98	0.21	95,95,95,95	7
74	OHX	D1	3440	7/7	0.98	0.18	137,137,137,137	7
74	OHX	D1	3421	7/7	0.98	0.15	98,98,98,98	7
74	OHX	D1	3492	7/7	0.98	0.16	112,112,112,112	7
74	OHX	D1	3417	7/7	0.98	0.23	91,91,91,91	7
74	OHX	B1	3458	7/7	0.98	0.29	114,114,114,114	7
74	OHX	C1	1903	7/7	0.98	0.17	115,115,115,115	0
74	OHX	Ac	100	7/7	0.98	0.29	131,131,131,131	7
74	OHX	C1	1953	7/7	0.98	0.13	56,56,56,56	7
74	OHX	D1	3422	7/7	0.98	0.18	114,114,114,114	7
74	OHX	C1	1920	7/7	0.98	0.19	103,103,103,103	7
74	OHX	B1	3428	7/7	0.98	0.15	109,109,109,109	7
74	OHX	B1	3432	7/7	0.98	0.19	79,79,79,79	7
74	OHX	A1	1907	7/7	0.98	0.22	111,111,111,111	7
74	OHX	B3	211	7/7	0.98	0.16	67,67,67,67	7
74	OHX	D1	3409	7/7	0.98	0.17	114,114,114,114	0
74	OHX	A1	1904	7/7	0.98	0.17	137,137,137,137	7

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	D1	3427	7/7	0.98	0.16	90,90,90,90	7
74	OHX	B1	3419	7/7	0.98	0.17	109,109,109,109	7
74	OHX	D1	3430	7/7	0.98	0.15	101,101,101,101	7
74	OHX	D1	3402	7/7	0.98	0.24	100,100,100,100	0
74	OHX	D1	3405	7/7	0.98	0.20	110,110,110,110	0
74	OHX	D1	3431	7/7	0.98	0.13	109,109,109,109	7
74	OHX	D1	3450	7/7	0.98	0.21	112,112,112,112	7
74	OHX	B1	3404	7/7	0.98	0.15	114,114,114,114	0
74	OHX	A1	1913	7/7	0.98	0.11	135,135,135,135	7
74	OHX	D1	3456	7/7	0.98	0.20	131,131,131,131	7
74	OHX	B1	3417	7/7	0.98	0.12	102,102,102,102	0
74	OHX	D1	3432	7/7	0.98	0.18	100,100,100,100	7
74	OHX	C1	1925	7/7	0.98	0.12	116,116,116,116	7
74	OHX	D1	3446	7/7	0.98	0.15	83,83,83,83	7
74	OHX	B1	3460	7/7	0.98	0.16	137,137,137,137	7
74	OHX	D1	3429	7/7	0.98	0.21	82,82,82,82	7
74	OHX	D1	3408	7/7	0.98	0.12	143,143,143,143	0
74	OHX	B1	3477	7/7	0.98	0.19	101,101,101,101	7
74	OHX	D1	3452	7/7	0.98	0.09	94,94,94,94	7
74	OHX	C1	1914	7/7	0.98	0.12	128,128,128,128	7
74	OHX	B1	3411	7/7	0.98	0.15	105,105,105,105	0
74	OHX	Bg	101	7/7	0.98	0.17	79,79,79,79	7
74	OHX	A1	1931	7/7	0.98	0.14	96,96,96,96	7
74	OHX	D1	3401	7/7	0.98	0.24	96,96,96,96	0
74	OHX	B1	3407	7/7	0.98	0.14	105,105,105,105	0
74	OHX	B1	3440	7/7	0.98	0.19	105,105,105,105	7
74	OHX	D1	3411	7/7	0.98	0.16	117,117,117,117	0
74	OHX	D1	3441	7/7	0.98	0.20	124,124,124,124	7
74	OHX	B1	3441	7/7	0.98	0.20	129,129,129,129	7
74	OHX	B1	3402	7/7	0.98	0.18	99,99,99,99	0
74	OHX	B3	202	7/7	0.98	0.15	116,116,116,116	0
74	OHX	C1	1904	7/7	0.98	0.16	113,113,113,113	0
74	OHX	B1	3406	7/7	0.98	0.22	106,106,106,106	0
74	OHX	B3	201	7/7	0.99	0.19	117,117,117,117	0
74	OHX	B3	204	7/7	0.99	0.15	84,84,84,84	7
74	OHX	C1	1902	7/7	0.99	0.22	108,108,108,108	0
74	OHX	C1	1964	7/7	0.99	0.15	88,88,88,88	7
74	OHX	D1	3420	7/7	0.99	0.11	112,112,112,112	0
74	OHX	D1	3404	7/7	0.99	0.21	99,99,99,99	0
74	OHX	B1	3540	7/7	0.99	0.18	58,58,58,58	7
74	OHX	B1	3450	7/7	0.99	0.12	91,91,91,91	7
74	OHX	D1	3407	7/7	0.99	0.13	113,113,113,113	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	C1	1918	7/7	0.99	0.14	123,123,123,123	7
74	OHX	AS	101	7/7	0.99	0.14	29,29,29,29	7
74	OHX	B1	3401	7/7	0.99	0.22	90,90,90,90	0
74	OHX	D1	3414	7/7	0.99	0.11	114,114,114,114	0
74	OHX	A1	1902	7/7	0.99	0.14	112,112,112,112	0
74	OHX	D1	3436	7/7	0.99	0.19	125,125,125,125	7
74	OHX	B1	3413	7/7	0.99	0.12	106,106,106,106	7
74	OHX	D1	3415	7/7	0.99	0.11	139,139,139,139	0
74	OHX	B1	3408	7/7	0.99	0.20	98,98,98,98	0
74	OHX	B1	3424	7/7	0.99	0.14	105,105,105,105	7
74	OHX	A1	1903	7/7	0.99	0.12	122,122,122,122	7
74	OHX	D3	202	7/7	0.99	0.13	116,116,116,116	0
74	OHX	B1	3423	7/7	0.99	0.21	91,91,91,91	7
74	OHX	B1	3447	7/7	0.99	0.16	126,126,126,126	7
74	OHX	BT	201	7/7	0.99	0.15	91,91,91,91	7
74	OHX	B1	3416	7/7	0.99	0.18	113,113,113,113	0
74	OHX	B1	3442	7/7	0.99	0.17	89,89,89,89	7
74	OHX	B1	3434	7/7	0.99	0.17	102,102,102,102	7
74	OHX	D1	3434	7/7	0.99	0.13	77,77,77,77	7
74	OHX	D1	3403	7/7	0.99	0.21	96,96,96,96	0
74	OHX	B1	3412	7/7	0.99	0.14	121,121,121,121	0
74	OHX	D1	3428	7/7	0.99	0.15	80,80,80,80	7
74	OHX	D1	3444	7/7	0.99	0.18	72,72,72,72	7
74	OHX	Dd	101	7/7	0.99	0.15	32,32,32,32	7
74	OHX	Bd	101	7/7	0.99	0.19	32,32,32,32	7
74	OHX	C1	1911	7/7	0.99	0.13	96,96,96,96	7
74	OHX	C1	1906	7/7	0.99	0.17	101,101,101,101	7
74	OHX	D3	201	7/7	0.99	0.14	93,93,93,93	0
74	OHX	C1	1907	7/7	0.99	0.14	123,123,123,123	7
74	OHX	DT	201	7/7	0.99	0.18	100,100,100,100	0
74	OHX	B1	3415	7/7	0.99	0.14	93,93,93,93	7
74	OHX	B1	3421	7/7	0.99	0.18	141,141,141,141	0
74	OHX	D1	3426	7/7	0.99	0.17	112,112,112,112	7
74	OHX	D1	3438	7/7	0.99	0.12	98,98,98,98	7
74	OHX	C1	1917	7/7	0.99	0.15	130,130,130,130	7
74	OHX	D1	3412	7/7	0.99	0.18	126,126,126,126	0
74	OHX	D2	201	7/7	0.99	0.13	94,94,94,94	7
74	OHX	C1	1901	7/7	0.99	0.16	100,100,100,100	0
74	OHX	D1	3437	7/7	0.99	0.24	103,103,103,103	7
74	OHX	D1	3455	7/7	0.99	0.13	110,110,110,110	7
74	OHX	B1	3405	7/7	0.99	0.18	101,101,101,101	0
74	OHX	A1	1901	7/7	0.99	0.15	100,100,100,100	0

*Continued on next page...*

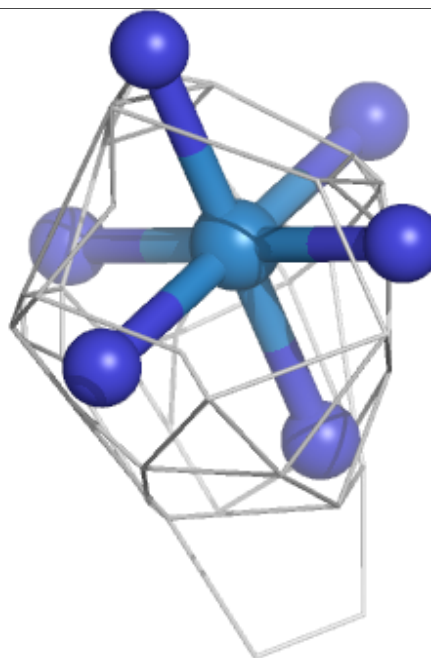
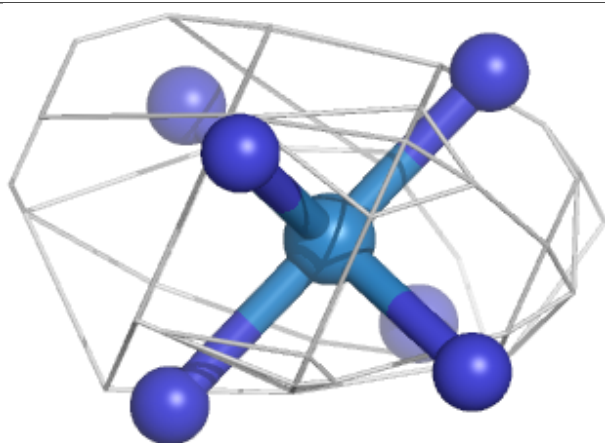
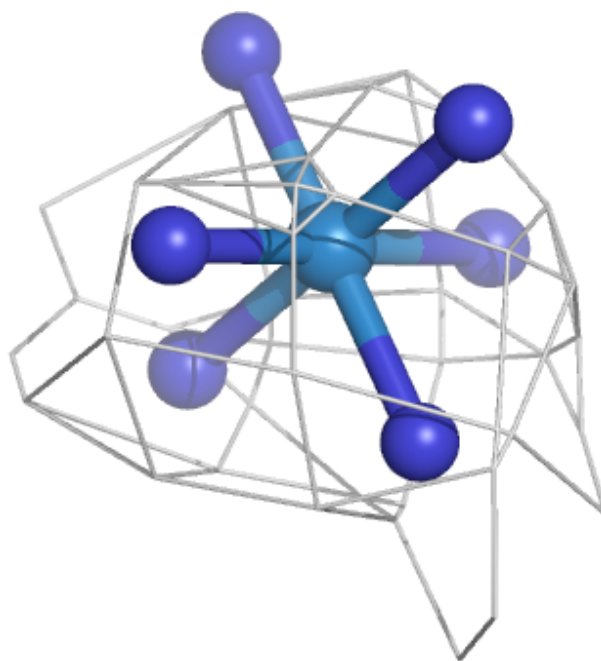
*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
74	OHX	B1	3420	7/7	0.99	0.19	93,93,93,93	7
74	OHX	D1	3410	7/7	0.99	0.21	96,96,96,96	0
74	OHX	B1	3422	7/7	0.99	0.12	93,93,93,93	7
74	OHX	D1	3449	7/7	0.99	0.27	124,124,124,124	7
74	OHX	B1	3445	7/7	0.99	0.12	113,113,113,113	7
74	OHX	D1	3423	7/7	0.99	0.12	88,88,88,88	7
74	OHX	B1	3464	7/7	0.99	0.17	89,89,89,89	7

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

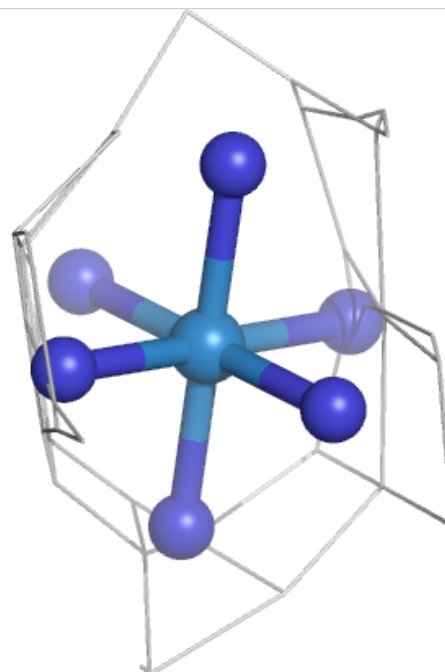
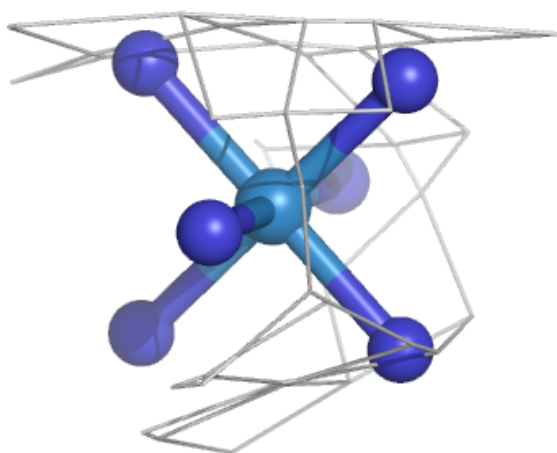
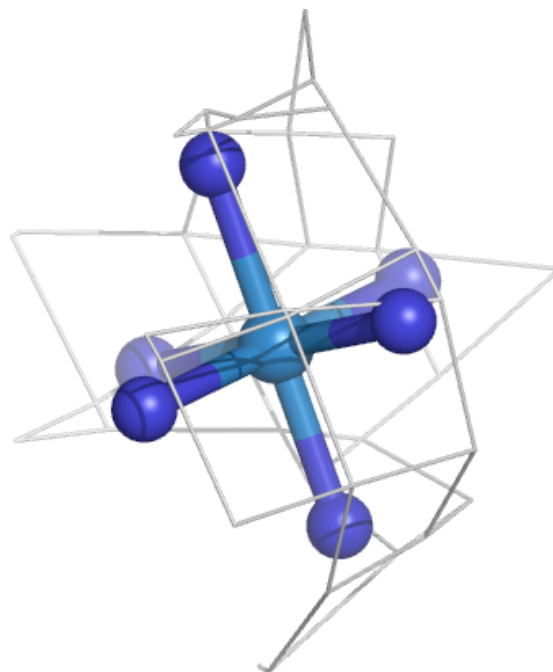
**Electron density around OHX D1 3593:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



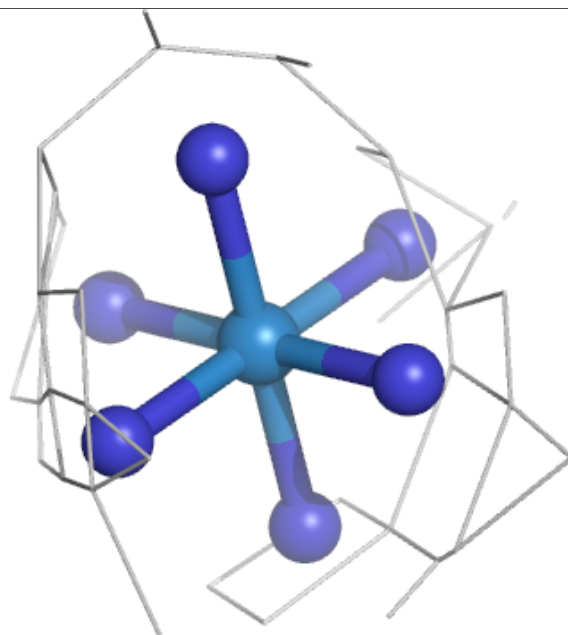
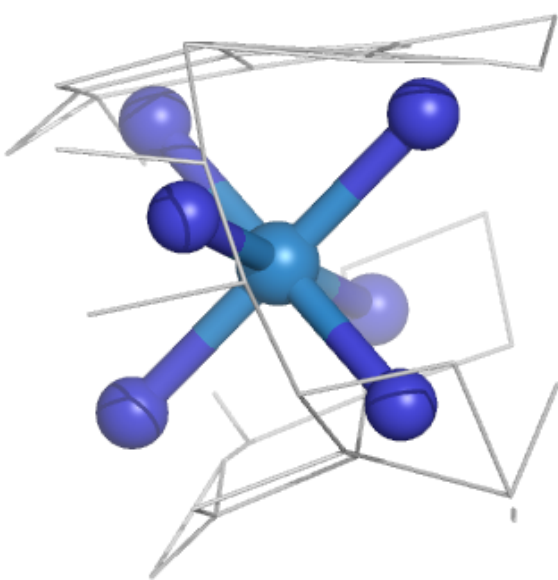
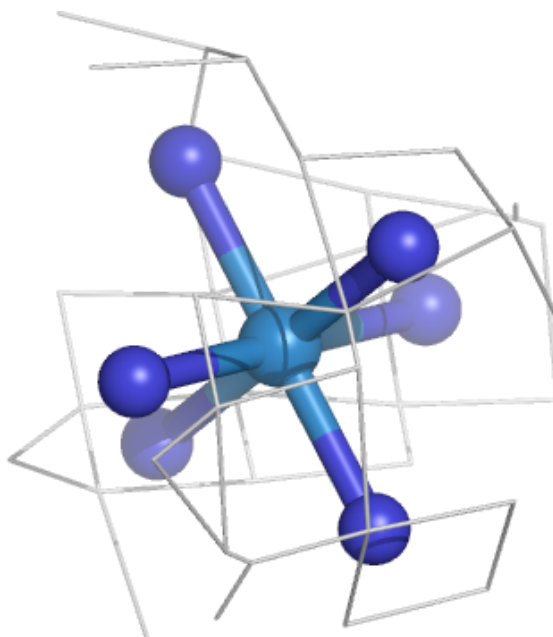
**Electron density around OHX D3 211:**

$2mF_o - DF_c$  (at 0.7 rmsd) in gray  
 $mF_o - DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



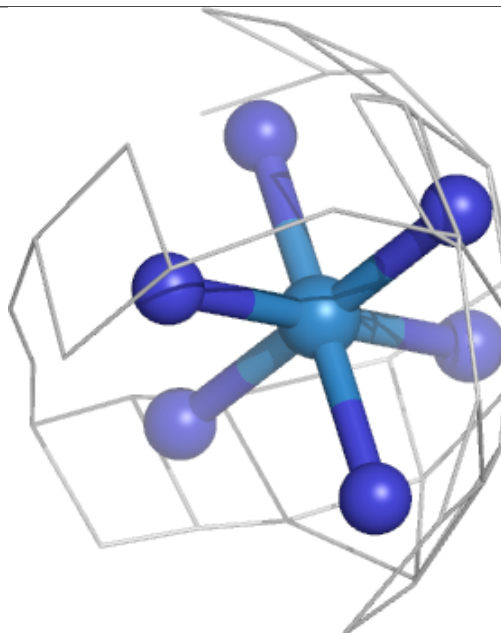
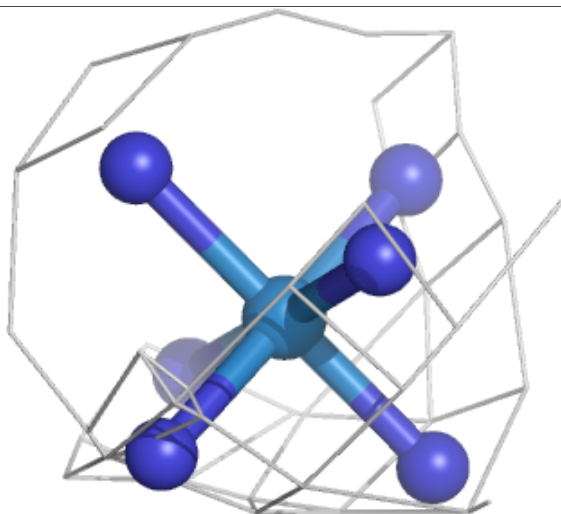
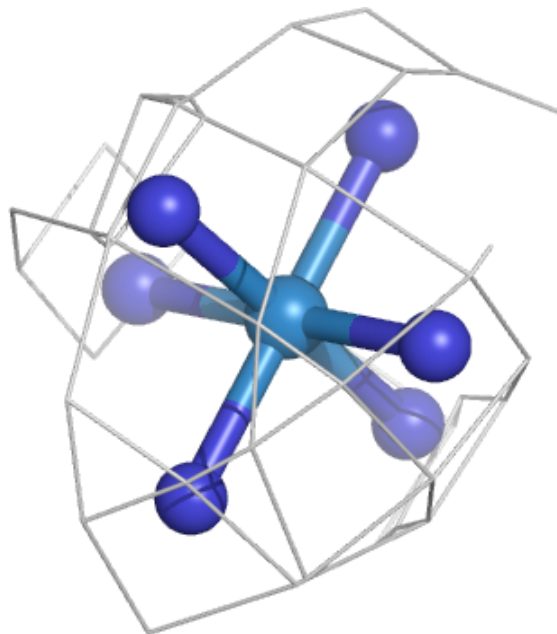
**Electron density around OHX A1 1930:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around OHX B1 3602:**

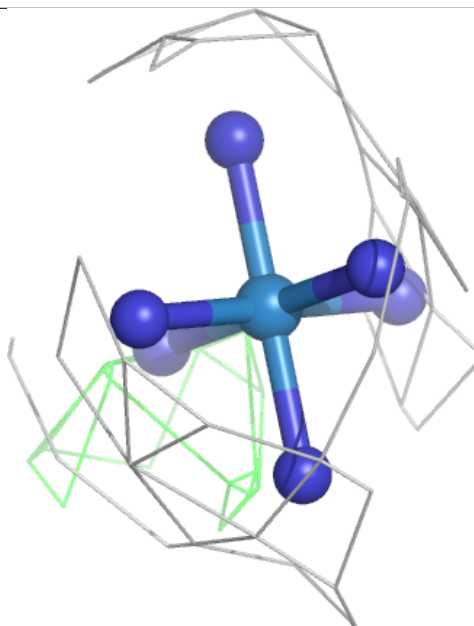
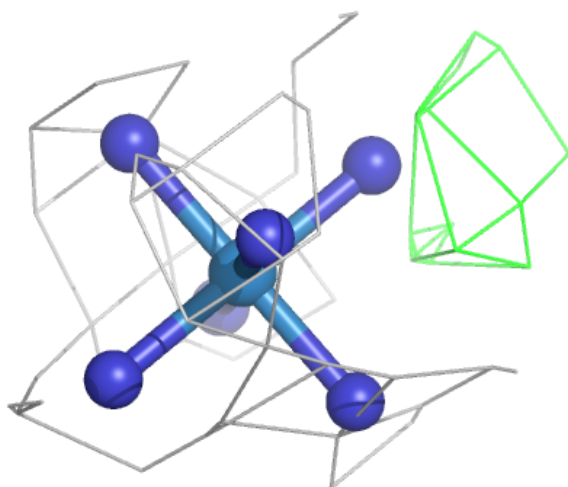
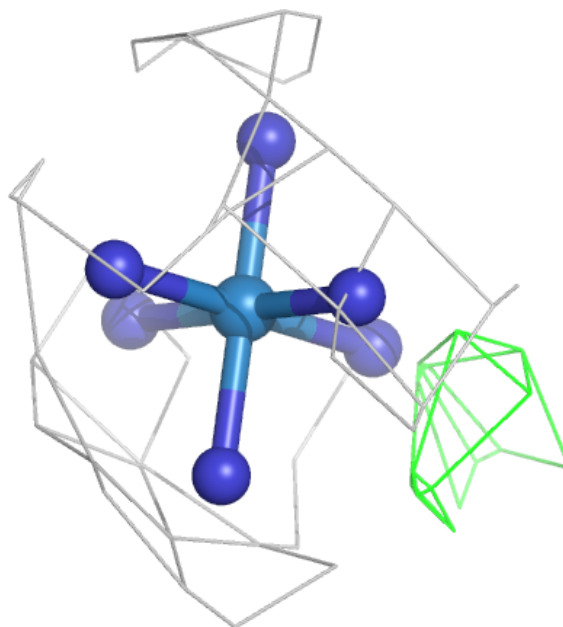
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





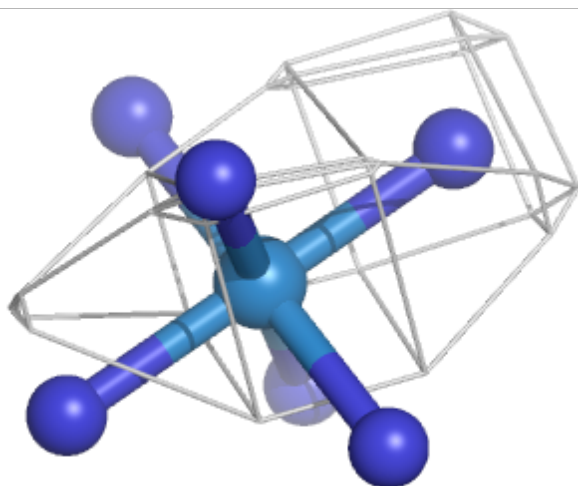
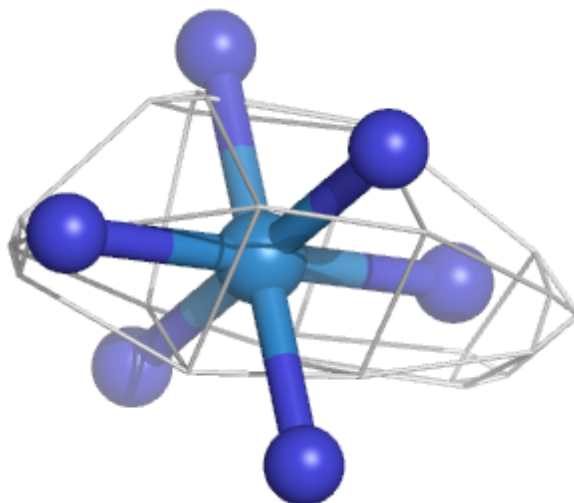
**Electron density around OHX A1 1983:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



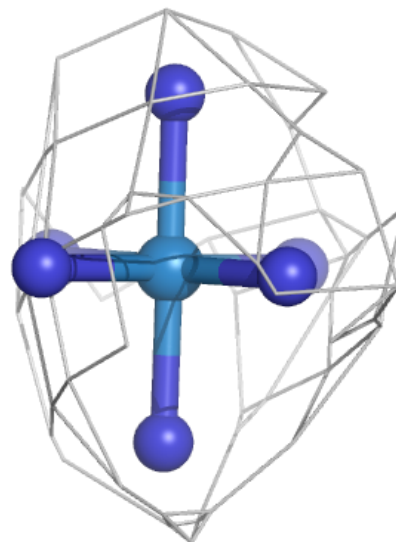
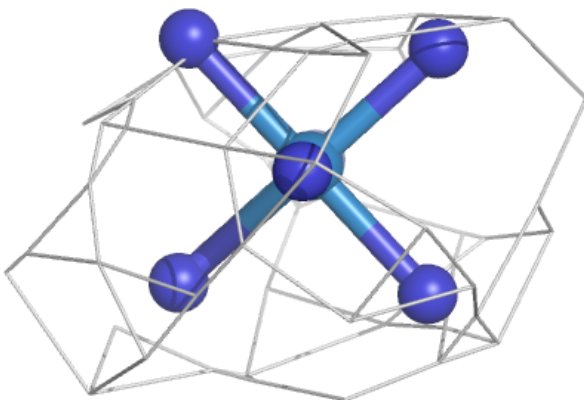
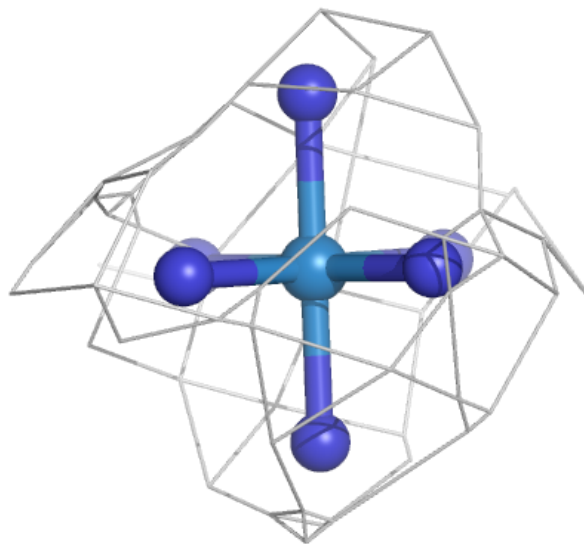
**Electron density around OHX B1 3571:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



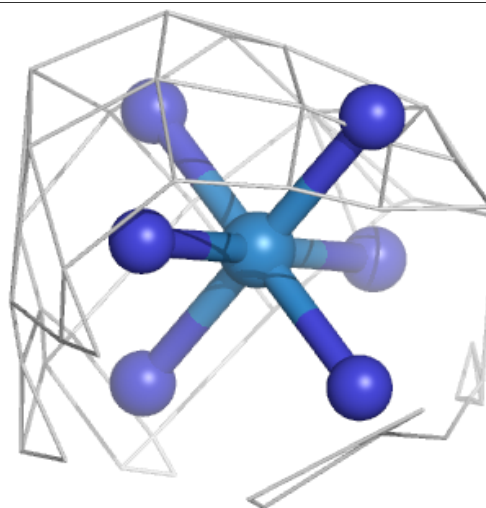
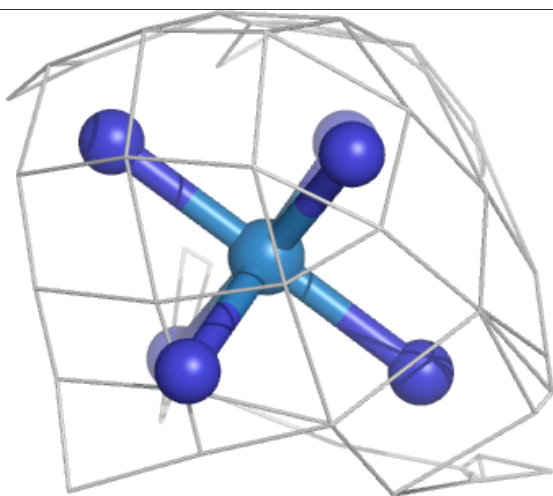
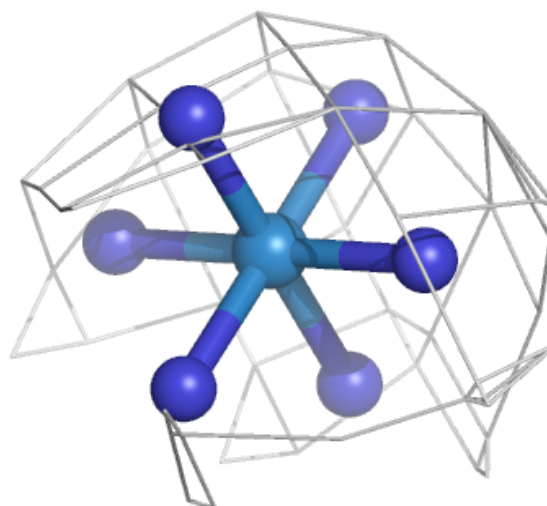
**Electron density around OHX D1 3573:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



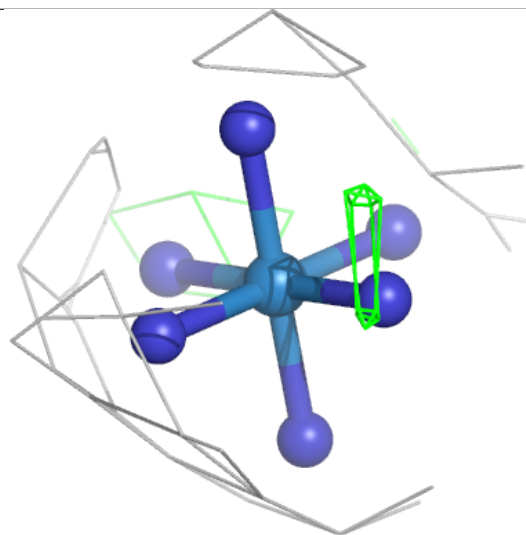
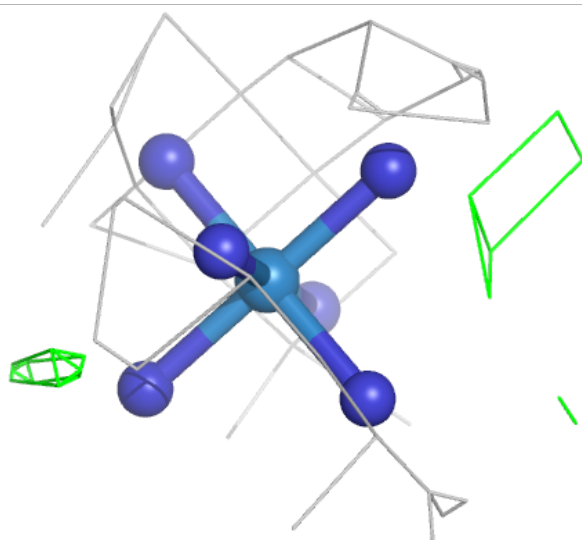
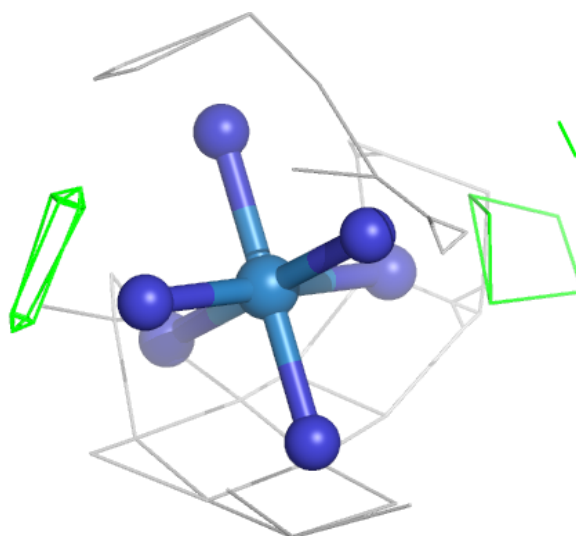
**Electron density around OHX D1 3605:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



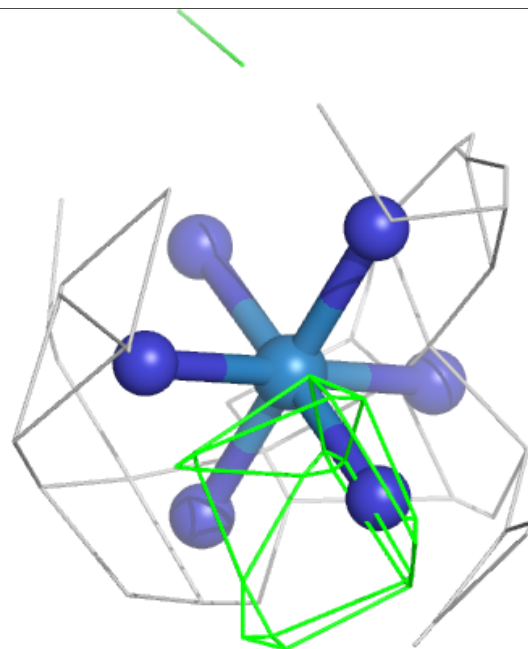
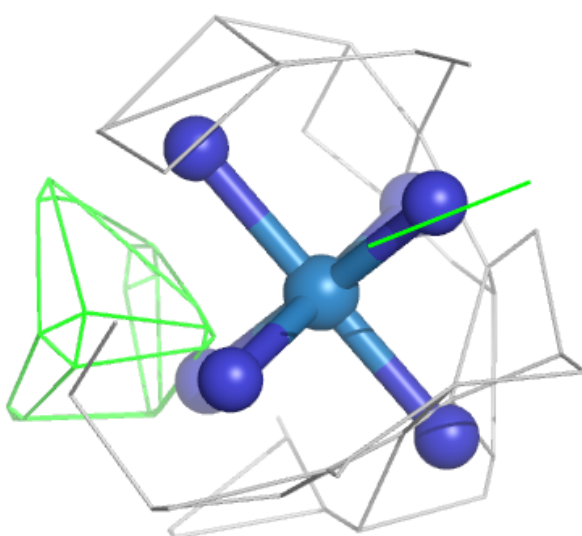
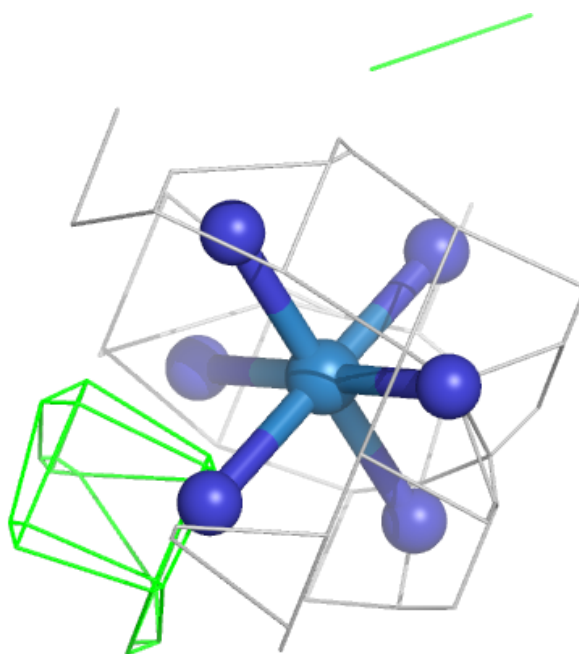
**Electron density around OHX B1 3548:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around OHX D1 3586:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



## 6.5 Other polymers ⓘ

There are no such residues in this entry.