



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 5, 2023 – 10:20 PM EST

PDB ID : 5J4B
Title : Crystal structure of the *Thermus thermophilus* 70S ribosome in complex with cisplatin (co-crystallized) and bound to mRNA and A-, P- and E-site tRNAs at 2.6Å resolution
Authors : Melnikov, S.V.; Soll, D.; Steitz, T.A.; Polikanov, Y.S.
Deposited on : 2016-03-31
Resolution : 2.60 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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 : 2.36
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) : 2.36

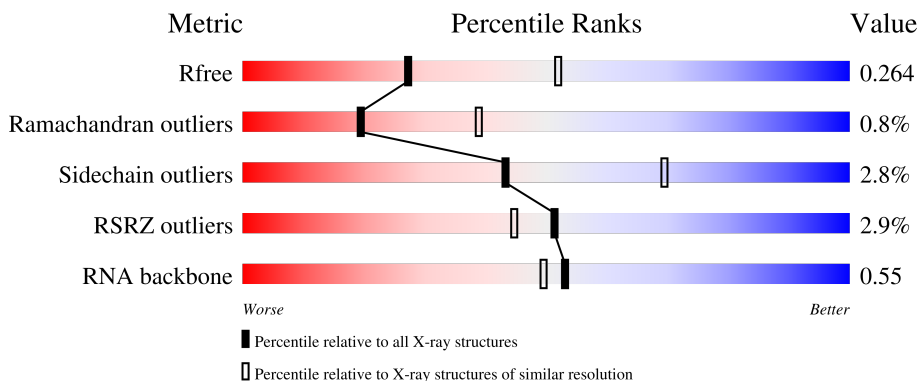
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 Å.

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



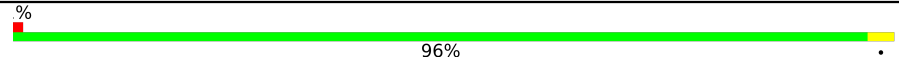
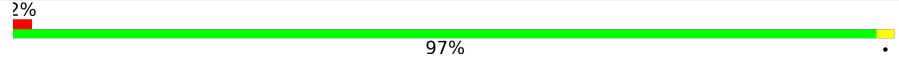
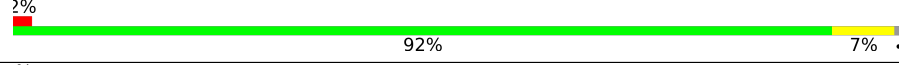
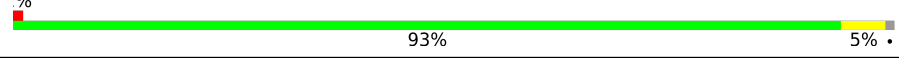
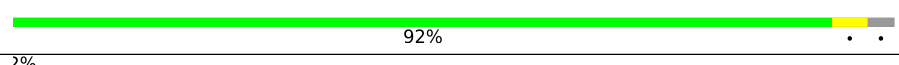
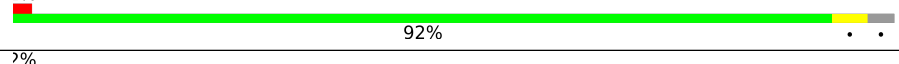
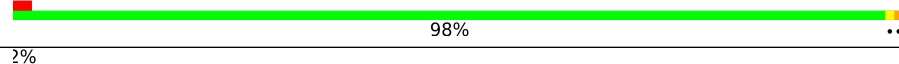
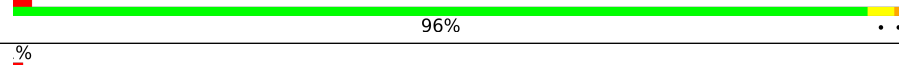
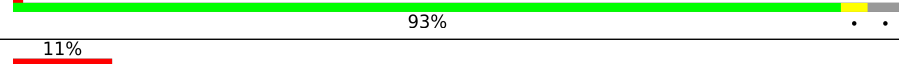
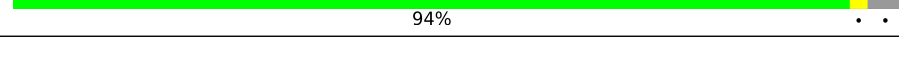
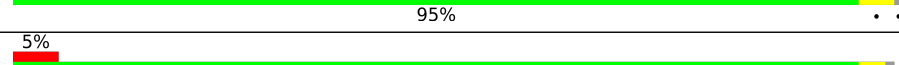
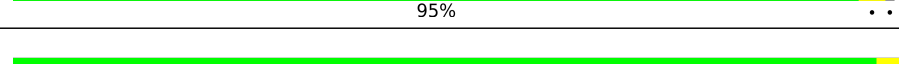
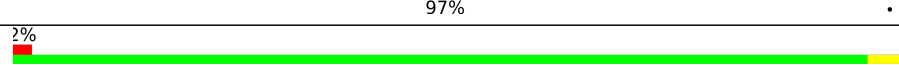
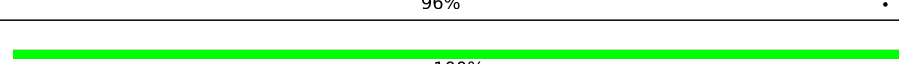
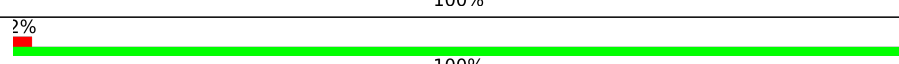
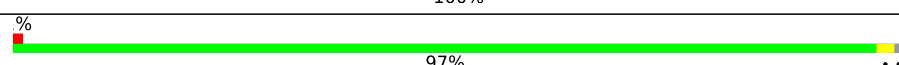
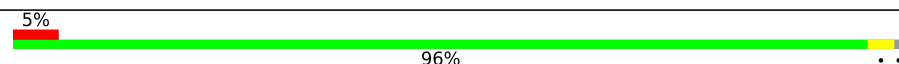
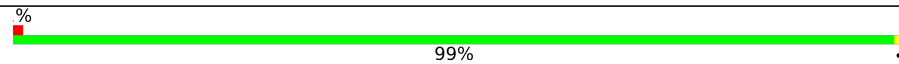
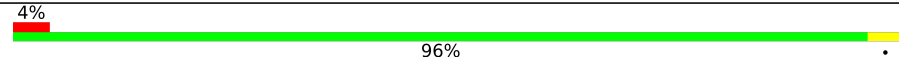
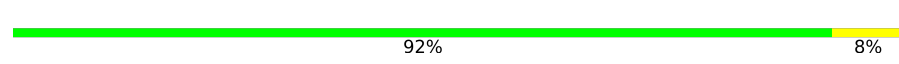
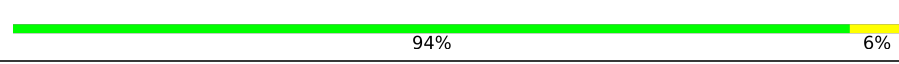
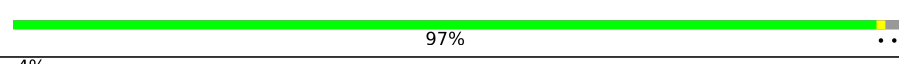
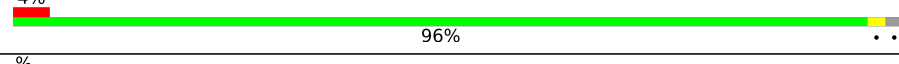


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3163 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)
RNA backbone	3102	1040 (2.90-2.30)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 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	1A	2915	 82% 16% ..
1	2A	2915	 2% 78% 17% . .
2	1B	121	 91% 7% ..
2	2B	121	 76% 23% .

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Mol	Chain	Length	Quality of chain
3	1D	276	 96%
3	2D	276	 97%
4	1E	206	 92% 7%
4	2E	206	 93% 5%
5	1F	210	 92%
5	2F	210	 92%
6	1G	182	 98%
6	2G	182	 96%
7	1H	180	 93%
7	2H	180	 11% 94%
8	1I	148	 95%
8	2I	148	 95%
9	1N	140	 97%
9	2N	140	 96%
10	1O	122	 100%
10	2O	122	 100%
11	1P	150	 97%
11	2P	150	 5% 96%
12	1Q	141	 99%
12	2Q	141	 4% 96%
13	1R	118	 92% 8%
13	2R	118	 94% 6%
14	1S	112	 97%
14	2S	112	 4% 96%
15	1T	146	 89% 10%

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Mol	Chain	Length	Quality of chain
15	2T	146	3% 88% 10%
16	1U	118	96%
16	2U	118	2% 98%
17	1V	101	% 94% 5%
17	2V	101	5% 95%
18	1W	113	% 95%
18	2W	113	3% 94% 5%
19	1X	96	98%
19	2X	96	3% 97%
20	1Y	110	% 95%
20	2Y	110	13% 95%
21	1Z	206	2% 73% 25%
21	2Z	206	8% 75% 22%
22	10	85	7% 95%
22	20	85	7% 94%
23	11	98	2% 98%
23	21	98	7% 96%
24	12	72	3% 97%
24	22	72	% 97%
25	13	60	97%
25	23	60	5% 95%
26	14	71	3% 86% 11%
26	24	71	4% 89% 8%
27	15	60	2% 92% 7%
27	25	60	2% 93% 5%

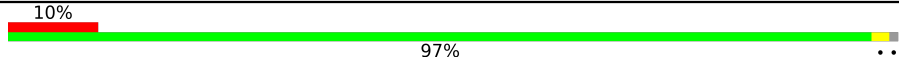

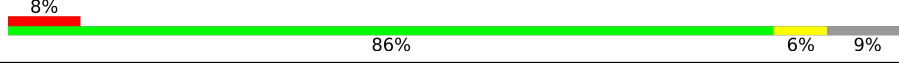

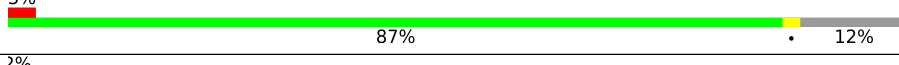
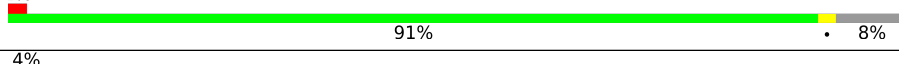
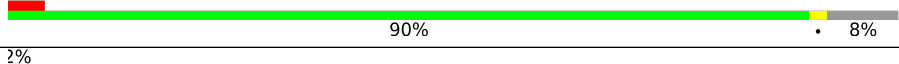
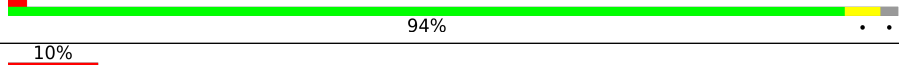
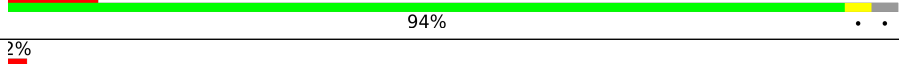
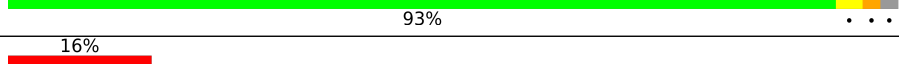
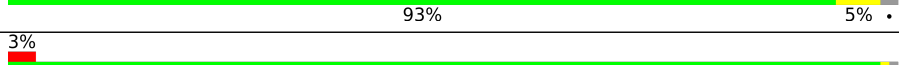
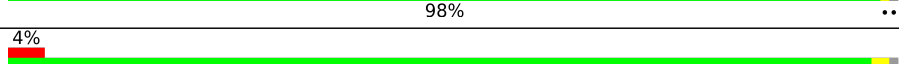
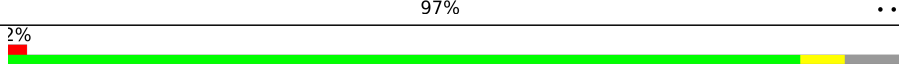
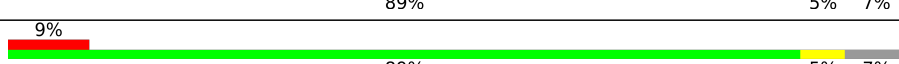
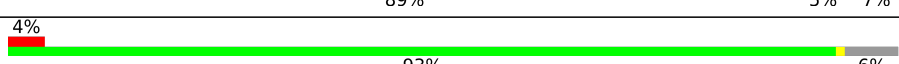
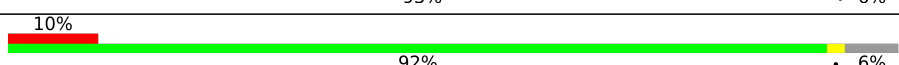
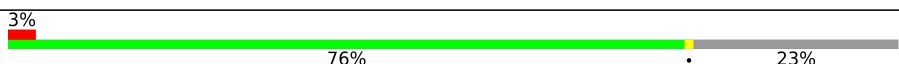
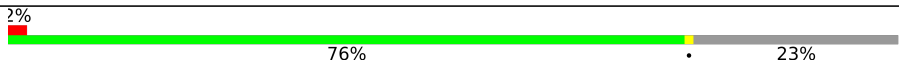
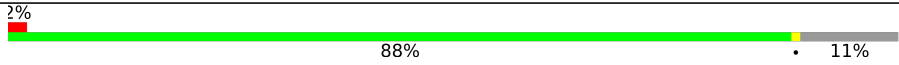


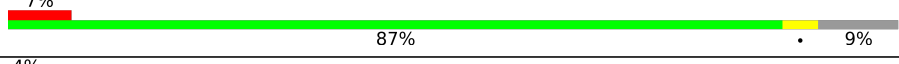
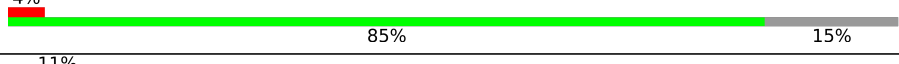


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Mol	Chain	Length	Quality of chain
28	16	54	96%
28	26	54	96%
29	17	49	8% 92% 6%
29	27	49	12% 90% 8%
30	18	65	94% 5%
30	28	65	3% 97%
31	19	37	100%
31	29	37	11% 100%
32	1a	1521	% 84% 15%
32	2a	1521	% 82% 16%
33	1b	256	3% 87% 10%
33	2b	256	17% 85% 5% 10%
34	1c	239	% 85% 14%
34	2c	239	10% 85% 14%
35	1d	209	4% 96%
35	2d	209	4% 97%
36	1e	162	% 89% 9%
36	2e	162	10% 88% 9%
37	1f	101	2% 99%
37	2f	101	2% 99%
38	1g	156	3% 97%
38	2g	156	8% 97%
39	1h	138	6% 99%
39	2h	138	5% 98%
40	1i	128	2% 98%

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Mol	Chain	Length	Quality of chain
40	2i	128	
41	1j	105	
41	2j	105	
42	1k	129	
42	2k	129	
43	1l	132	
43	2l	132	
44	1m	126	
44	2m	126	
45	1n	61	
45	2n	61	
46	1o	89	
46	2o	89	
47	1p	88	
47	2p	88	
48	1q	105	
48	2q	105	
49	1r	88	
49	2r	88	
50	1s	93	
50	2s	93	
51	1t	106	
51	2t	106	
52	1u	27	
52	2u	27	

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Mol	Chain	Length	Quality of chain
53	1v	24	
53	2v	24	
54	1w	76	
54	1y	76	
54	2w	76	
54	2y	76	
55	1x	77	
55	2x	77	

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
56	MG	18	101	-	-	-	X
56	MG	1A	3149	-	-	-	X
56	MG	1A	3386	-	-	-	X
56	MG	1A	3414	-	-	-	X
56	MG	1A	3434	-	-	-	X
56	MG	1A	3454	-	-	-	X
56	MG	1A	4057	-	-	-	X
56	MG	1A	4084	-	-	-	X
56	MG	1A	4104	-	-	-	X
56	MG	1A	4132	-	-	-	X
56	MG	1B	3011	-	-	-	X
56	MG	23	101	-	-	-	X
56	MG	25	105	-	-	-	X
56	MG	2A	3092	-	-	-	X
56	MG	2A	3212	-	-	-	X
56	MG	2A	3227	-	-	-	X
56	MG	2A	3252	-	-	-	X
56	MG	2A	3292	-	-	-	X
56	MG	2A	3325	-	-	-	X
56	MG	2A	3326	-	-	-	X
56	MG	2A	3341	-	-	-	X
56	MG	2A	3343	-	-	-	X
56	MG	2A	3370	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	2A	3411	-	-	-	X
56	MG	2A	3700	-	-	-	X
56	MG	2A	3729	-	-	-	X
56	MG	2A	3910	-	-	-	X
56	MG	2F	301	-	-	-	X
56	MG	2a	1629	-	-	-	X
56	MG	2a	1631	-	-	-	X
56	MG	2a	1665	-	-	-	X
56	MG	2a	1752	-	-	-	X
56	MG	2w	103	-	-	-	X
58	CPT	1A	4179	-	-	-	X

2 Entry composition [i](#)

There are 61 unique types of molecules in this entry. The entry contains 301328 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 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	1A	2871	Total	C	N	O	P	0	1	0
			61875	27541	11577	19885	2872			
1	2A	2800	Total	C	N	O	P	0	0	0
			60322	26848	11284	19390	2800			

- Molecule 2 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	1B	120	Total	C	N	O	P	0	0	0
			2577	1146	476	835	120			
2	2B	120	Total	C	N	O	P	0	0	0
			2575	1146	476	833	120			

- Molecule 3 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	1D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			
3	2D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			

- Molecule 4 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	1E	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			
4	2E	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			

- Molecule 5 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	1F	203	Total	C	N	O	S	0	0	1
			1584	1009	298	275	2			
5	2F	203	Total	C	N	O	S	0	0	1
			1580	1007	297	274	2			

- Molecule 6 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	1G	181	Total	C	N	O	S	0	0	0
			1423	913	253	253	4			
6	2G	181	Total	C	N	O	S	0	0	0
			1428	913	258	253	4			

- Molecule 7 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	1H	173	Total	C	N	O	S	0	0	0
			1321	839	246	235	1			
7	2H	173	Total	C	N	O	S	0	0	0
			1321	839	246	235	1			

- Molecule 8 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	1I	146	Total	C	N	O	S	0	0	0
			1097	701	191	204	1			
8	2I	146	Total	C	N	O	S	0	0	0
			1064	681	186	196	1			

- Molecule 9 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	1N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			
9	2N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			

- Molecule 10 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1O	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	2O	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 11 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	1P	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			
11	2P	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			

- Molecule 12 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	1Q	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
12	2Q	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 13 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	1R	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
13	2R	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			

- Molecule 14 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	1S	110	Total	C	N	O	0	0	0
			873	550	174	149			
14	2S	110	Total	C	N	O	0	0	0
			870	549	173	148			

- Molecule 15 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	1T	131	Total	C	N	O	S	0	0	0
			1091	680	225	185	1			
15	2T	131	Total	C	N	O	S	0	0	0
			1083	675	224	183	1			

- Molecule 16 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
16	1U	116	Total 959	C 608	N 201	O 149	S 1	0	0	0
16	2U	116	Total 959	C 608	N 201	O 149	S 1	0	0	0

- Molecule 17 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
17	1V	101	Total 771	C 495	N 140	O 135	S 1	0	0	0
17	2V	101	Total 771	C 495	N 140	O 135	S 1	0	0	0

- Molecule 18 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
18	1W	112	Total 886	C 557	N 174	O 153	S 2	0	0	0
18	2W	112	Total 886	C 557	N 174	O 153	S 2	0	0	0

- Molecule 19 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
19	1X	95	Total 750	C 488	N 135	O 126	S 1	0	0	0
19	2X	95	Total 750	C 488	N 135	O 126	S 1	0	0	0

- Molecule 20 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
20	1Y	107	Total 806	C 517	N 152	O 131	S 6	0	0	0
20	2Y	107	Total 806	C 517	N 152	O 131	S 6	0	0	0

- Molecule 21 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	1Z	154	Total	C	N	O	S	0	0	0
			1240	795	222	220	3			
21	2Z	160	Total	C	N	O	S	0	0	0
			1271	814	228	227	2			

- Molecule 22 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	10	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			
22	20	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			

- Molecule 23 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	11	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			
23	21	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			

- Molecule 24 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	12	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			
24	22	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			

- Molecule 25 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
25	13	59	Total	C	N	O	0	0	0
			469	298	90	81			
25	23	59	Total	C	N	O	0	0	0
			464	296	90	78			

- Molecule 26 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	14	69	Total	C	N	O	S	0	0	0
			552	349	99	99	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	24	69	Total	C	N	O	S	0	0	0
			532	339	97	91	5			

- Molecule 27 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	15	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			
27	25	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			

- Molecule 28 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	16	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			
28	26	53	Total	C	N	O	S	0	0	0
			449	279	91	75	4			

- Molecule 29 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	17	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
29	27	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

- Molecule 30 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	18	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			
30	28	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

- Molecule 31 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	19	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
31	29	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 32 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	1a	1500	Total	C	N	O	P	0	0	0
			32246	14358	5975	10413	1500			
32	2a	1503	Total	C	N	O	P	0	0	0
			32327	14396	5990	10438	1503			

- Molecule 33 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	1b	231	Total	C	N	O	S	0	0	0
			1846	1179	331	331	5			
33	2b	231	Total	C	N	O	S	0	0	0
			1825	1167	326	327	5			

- Molecule 34 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	1c	206	Total	C	N	O	S	0	0	0
			1548	973	301	273	1			
34	2c	206	Total	C	N	O	S	0	0	0
			1542	968	300	273	1			

- Molecule 35 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	1d	208	Total	C	N	O	S	0	0	0
			1655	1038	326	284	7			
35	2d	208	Total	C	N	O	S	0	0	0
			1674	1050	333	284	7			

- Molecule 36 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1e	148	Total	C	N	O	S	0	0	0
			1129	714	213	198	4			
36	2e	148	Total	C	N	O	S	0	0	0
			1133	716	214	199	4			

- Molecule 37 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	1f	100	Total	C	N	O	S	0	0	0
			810	514	144	149	3			
37	2f	100	Total	C	N	O	S	0	0	0
			816	516	146	151	3			

- Molecule 38 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	1g	155	Total	C	N	O	S	0	0	0
			1231	766	243	216	6			
38	2g	155	Total	C	N	O	S	0	0	0
			1235	769	244	216	6			

- Molecule 39 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	1h	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			
39	2h	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			

- Molecule 40 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	1i	127	Total	C	N	O	0	0	0
			983	623	193	167			
40	2i	127	Total	C	N	O	0	0	0
			978	619	190	169			

- Molecule 41 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	1j	97	Total	C	N	O	0	0	0
			709	440	138	131			
41	2j	96	Total	C	N	O	0	0	0
			714	445	138	131			

- Molecule 42 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	1k	114	Total	C	N	O	S	0	0	0
			829	516	155	155	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	2k	114	Total	C	N	O	S	0	0	0
			833	519	156	155	3			

- Molecule 43 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	1l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			
43	2l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			

- Molecule 44 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	1m	123	Total	C	N	O	S	0	0	0
			958	592	198	166	2			
44	2m	122	Total	C	N	O	S	0	0	0
			950	586	197	165	2			

- Molecule 45 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	1n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
45	2n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 46 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	1o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			
46	2o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			

- Molecule 47 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	1p	82	Total	C	N	O	S	0	0	0
			681	433	134	113	1			
47	2p	82	Total	C	N	O	S	0	0	0
			677	430	133	113	1			

- Molecule 48 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	1q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			
48	2q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 49 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	1r	68	Total	C	N	O		0	0	0
			555	355	108	92				
49	2r	68	Total	C	N	O		0	0	0
			555	355	108	92				

- Molecule 50 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	1s	83	Total	C	N	O	S	0	0	0
			652	417	120	113	2			
50	2s	83	Total	C	N	O	S	0	0	0
			646	412	119	113	2			

- Molecule 51 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	1t	96	Total	C	N	O	S	0	0	0
			728	446	156	124	2			
51	2t	96	Total	C	N	O	S	0	0	0
			727	446	155	124	2			

- Molecule 52 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
52	1u	23	Total	C	N	O		0	0	0
			199	122	48	29				
52	2u	23	Total	C	N	O		0	0	0
			199	122	48	29				

- Molecule 53 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1v	13	Total	C	N	O	P	0	0	0
			277	125	51	88	13			
53	2v	13	Total	C	N	O	P	0	0	0
			277	125	51	88	13			

- Molecule 54 is a RNA chain called A-site and E-site tRNAs.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1w	74	Total	C	N	O	P	S	0	0	0
			1592	713	285	518	74	2			
54	1y	74	Total	C	N	O	P	S	0	0	0
			1585	707	285	518	74	1			
54	2w	72	Total	C	N	O	P	S	0	0	0
			1544	690	278	502	72	2			
54	2y	73	Total	C	N	O	P	S	0	0	0
			1565	698	283	510	73	1			

- Molecule 55 is a RNA chain called P-site tRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
55	1x	76	Total	C	N	O	P	S	0	0	0
			1625	725	294	529	76	1			
55	2x	76	Total	C	N	O	P	S	0	0	0
			1625	725	294	529	76	1			

- Molecule 56 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1220	Total	Mg	0	0
			1220	1220		
56	1B	36	Total	Mg	0	0
			36	36		
56	1D	12	Total	Mg	0	0
			12	12		
56	1E	11	Total	Mg	0	0
			11	11		
56	1F	7	Total	Mg	0	0
			7	7		
56	1G	5	Total	Mg	0	0
			5	5		
56	1I	1	Total	Mg	0	0
			1	1		
56	1N	6	Total	Mg	0	0
			6	6		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	1O	6	Total Mg 6 6	0	0
56	1P	3	Total Mg 3 3	0	0
56	1Q	5	Total Mg 5 5	0	0
56	1R	3	Total Mg 3 3	0	0
56	1S	3	Total Mg 3 3	0	0
56	1T	2	Total Mg 2 2	0	0
56	1U	8	Total Mg 8 8	0	0
56	1V	2	Total Mg 2 2	0	0
56	1W	4	Total Mg 4 4	0	0
56	1X	5	Total Mg 5 5	0	0
56	1Y	4	Total Mg 4 4	0	0
56	1Z	4	Total Mg 4 4	0	0
56	10	6	Total Mg 6 6	0	0
56	11	5	Total Mg 5 5	0	0
56	12	1	Total Mg 1 1	0	0
56	13	2	Total Mg 2 2	0	0
56	14	1	Total Mg 1 1	0	0
56	15	2	Total Mg 2 2	0	0
56	16	2	Total Mg 2 2	0	0
56	17	4	Total Mg 4 4	0	0
56	18	3	Total Mg 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	19	2	Total Mg 2 2	0	0
56	1a	284	Total Mg 284 284	0	0
56	1b	2	Total Mg 2 2	0	0
56	1e	1	Total Mg 1 1	0	0
56	1f	1	Total Mg 1 1	0	0
56	1l	3	Total Mg 3 3	0	0
56	1n	3	Total Mg 3 3	0	0
56	1r	1	Total Mg 1 1	0	0
56	1t	1	Total Mg 1 1	0	0
56	1v	1	Total Mg 1 1	0	0
56	1w	11	Total Mg 11 11	0	0
56	1x	18	Total Mg 18 18	0	0
56	1y	5	Total Mg 5 5	0	0
56	2A	937	Total Mg 937 937	0	0
56	2B	20	Total Mg 20 20	0	0
56	2D	5	Total Mg 5 5	0	0
56	2E	9	Total Mg 9 9	0	0
56	2F	7	Total Mg 7 7	0	0
56	2G	1	Total Mg 1 1	0	0
56	2N	1	Total Mg 1 1	0	0
56	2O	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2P	3	Total Mg 3 3	0	0
56	2Q	4	Total Mg 4 4	0	0
56	2R	3	Total Mg 3 3	0	0
56	2S	1	Total Mg 1 1	0	0
56	2T	2	Total Mg 2 2	0	0
56	2U	3	Total Mg 3 3	0	0
56	2V	1	Total Mg 1 1	0	0
56	2X	2	Total Mg 2 2	0	0
56	2Z	1	Total Mg 1 1	0	0
56	20	2	Total Mg 2 2	0	0
56	23	2	Total Mg 2 2	0	0
56	25	4	Total Mg 4 4	0	0
56	26	1	Total Mg 1 1	0	0
56	27	1	Total Mg 1 1	0	0
56	28	1	Total Mg 1 1	0	0
56	2a	256	Total Mg 256 256	0	0
56	2d	2	Total Mg 2 2	0	0
56	2e	1	Total Mg 1 1	0	0
56	2f	2	Total Mg 2 2	0	0
56	2g	1	Total Mg 1 1	0	0
56	2j	2	Total Mg 2 2	0	0

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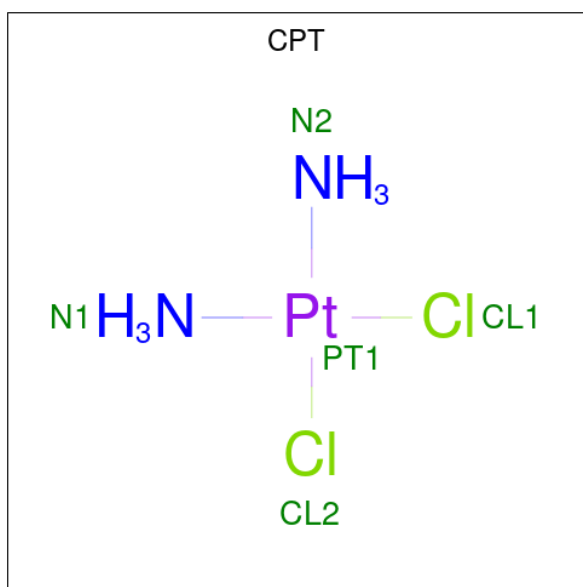
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2l	3	Total Mg 3 3	0	0
56	2n	1	Total Mg 1 1	0	0
56	2p	1	Total Mg 1 1	0	0
56	2q	4	Total Mg 4 4	0	0
56	2r	1	Total Mg 1 1	0	0
56	2t	1	Total Mg 1 1	0	0
56	2v	4	Total Mg 4 4	0	0
56	2w	8	Total Mg 8 8	0	0
56	2x	5	Total Mg 5 5	0	0
56	2y	7	Total Mg 7 7	0	0

- Molecule 57 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	1A	1	Total K 1 1	0	0
57	2A	1	Total K 1 1	0	0

- Molecule 58 is Cisplatin (three-letter code: CPT) (formula: Cl₂H₆N₂Pt).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
58	1A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	1A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	1A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	1A	1	Total	N	Pt		0	0
			3	2	1			
58	1A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	1I	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	1a	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	1a	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	2A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	2A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	2A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
58	2A	1	Total	N	Pt		0	0
			3	2	1			

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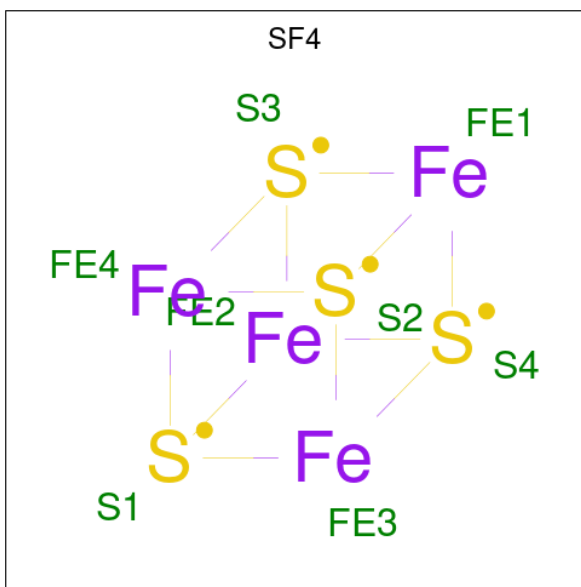
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	Cl	N	Pt		
58	2A	1	4	1	2	1	0	0
58	2I	1	4	1	2	1	0	0

- Molecule 59 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	1Y	1	Total	Zn	0	0
			1	1		
59	14	1	Total	Zn	0	0
			1	1		
59	15	1	Total	Zn	0	0
			1	1		
59	16	1	Total	Zn	0	0
			1	1		
59	19	1	Total	Zn	0	0
			1	1		
59	1n	1	Total	Zn	0	0
			1	1		
59	2Y	1	Total	Zn	0	0
			1	1		
59	24	1	Total	Zn	0	0
			1	1		
59	25	1	Total	Zn	0	0
			1	1		
59	26	1	Total	Zn	0	0
			1	1		
59	29	1	Total	Zn	0	0
			1	1		
59	2n	1	Total	Zn	0	0
			1	1		

- Molecule 60 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1d	1	Total	Fe S	0	0
			8	4 4		
60	2d	1	Total	Fe S	0	0
			8	4 4		

- Molecule 61 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1A	2299	Total	O	0	0
			2299	2299		
61	1B	68	Total	O	0	0
			68	68		
61	1D	29	Total	O	0	0
			29	29		
61	1E	30	Total	O	0	0
			30	30		
61	1F	17	Total	O	0	0
			17	17		
61	1G	8	Total	O	0	0
			8	8		
61	1H	1	Total	O	0	0
			1	1		
61	1I	2	Total	O	0	0
			2	2		
61	1N	5	Total	O	0	0
			5	5		
61	1O	7	Total	O	0	0
			7	7		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1P	21	Total 21	O 21	0	0
61	1Q	13	Total 13	O 13	0	0
61	1R	13	Total 13	O 13	0	0
61	1S	5	Total 5	O 5	0	0
61	1T	8	Total 8	O 8	0	0
61	1U	14	Total 14	O 14	0	0
61	1V	12	Total 12	O 12	0	0
61	1W	7	Total 7	O 7	0	0
61	1X	8	Total 8	O 8	0	0
61	1Y	9	Total 9	O 9	0	0
61	1Z	1	Total 1	O 1	0	0
61	10	10	Total 10	O 10	0	0
61	11	11	Total 11	O 11	0	0
61	12	4	Total 4	O 4	0	0
61	13	5	Total 5	O 5	0	0
61	14	1	Total 1	O 1	0	0
61	15	6	Total 6	O 6	0	0
61	16	3	Total 3	O 3	0	0
61	17	10	Total 10	O 10	0	0
61	18	11	Total 11	O 11	0	0
61	1a	516	Total 516	O 516	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1b	1	Total O 1 1	0	0
61	1c	1	Total O 1 1	0	0
61	1d	3	Total O 3 3	0	0
61	1e	2	Total O 2 2	0	0
61	1g	2	Total O 2 2	0	0
61	1i	1	Total O 1 1	0	0
61	1l	8	Total O 8 8	0	0
61	1m	2	Total O 2 2	0	0
61	1o	1	Total O 1 1	0	0
61	1p	1	Total O 1 1	0	0
61	1q	3	Total O 3 3	0	0
61	1u	1	Total O 1 1	0	0
61	1v	6	Total O 6 6	0	0
61	1w	21	Total O 21 21	0	0
61	1x	14	Total O 14 14	0	0
61	1y	3	Total O 3 3	0	0
61	2A	1402	Total O 1402 1402	0	0
61	2B	27	Total O 27 27	0	0
61	2D	26	Total O 26 26	0	0
61	2E	17	Total O 17 17	0	0
61	2F	17	Total O 17 17	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2I	4	Total O 4 4	0	0
61	2N	3	Total O 3 3	0	0
61	2O	1	Total O 1 1	0	0
61	2P	15	Total O 15 15	0	0
61	2Q	2	Total O 2 2	0	0
61	2R	2	Total O 2 2	0	0
61	2T	6	Total O 6 6	0	0
61	2U	2	Total O 2 2	0	0
61	2V	1	Total O 1 1	0	0
61	2W	3	Total O 3 3	0	0
61	2X	2	Total O 2 2	0	0
61	2Y	1	Total O 1 1	0	0
61	2Z	2	Total O 2 2	0	0
61	20	6	Total O 6 6	0	0
61	21	12	Total O 12 12	0	0
61	22	1	Total O 1 1	0	0
61	23	1	Total O 1 1	0	0
61	25	3	Total O 3 3	0	0
61	27	4	Total O 4 4	0	0
61	28	4	Total O 4 4	0	0
61	29	1	Total O 1 1	0	0

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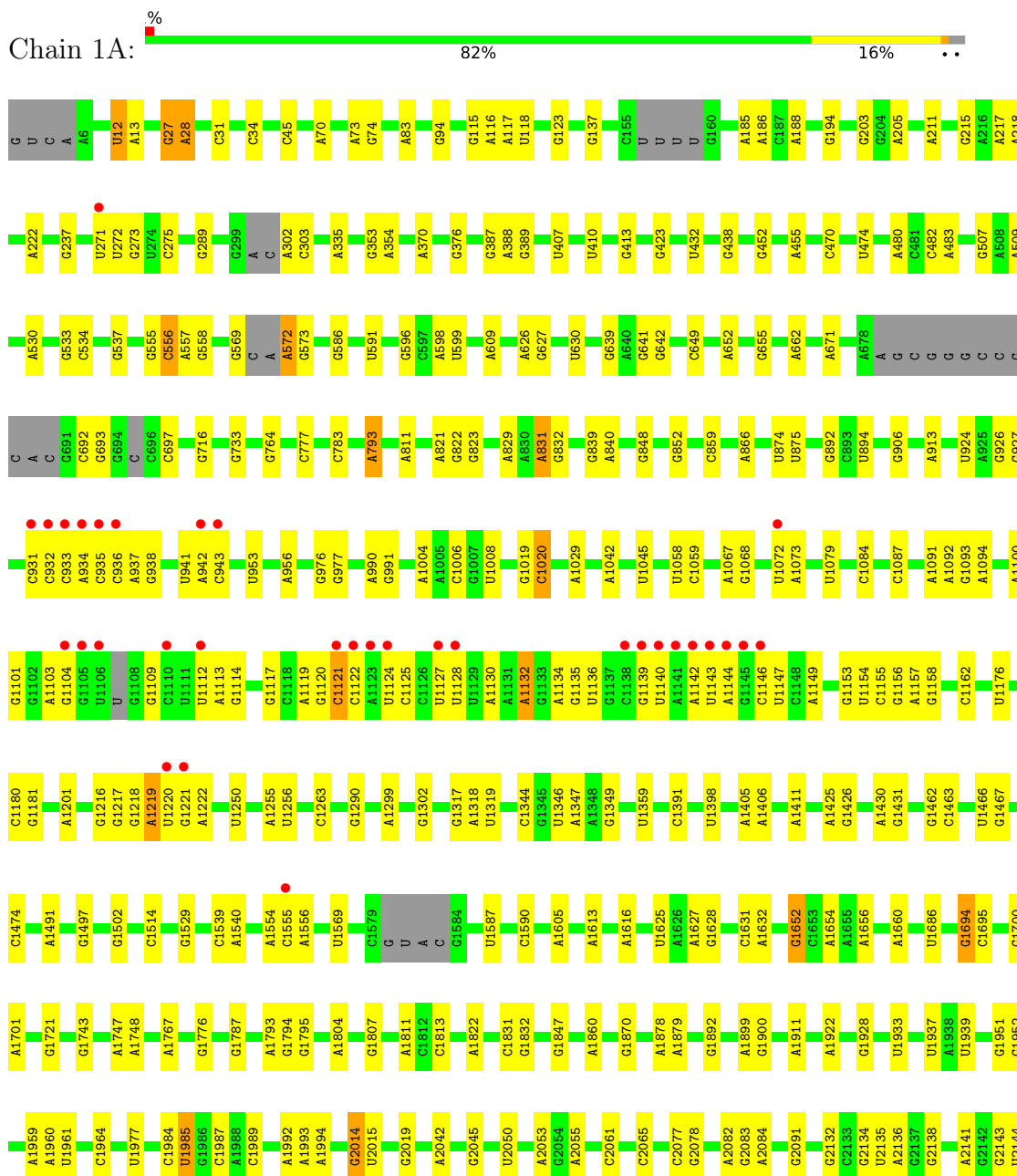
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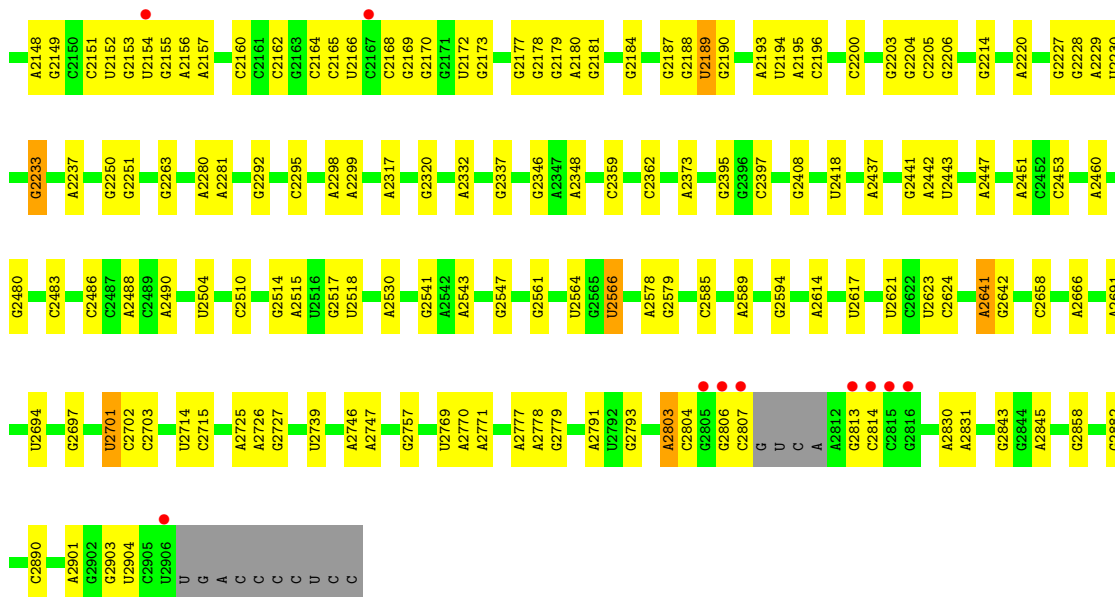
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	2a	380	Total 380	O 380	0	0
61	2c	1	Total 1	O 1	0	0
61	2d	4	Total 4	O 4	0	0
61	2e	2	Total 2	O 2	0	0
61	2f	1	Total 1	O 1	0	0
61	2g	2	Total 2	O 2	0	0
61	2i	1	Total 1	O 1	0	0
61	2j	4	Total 4	O 4	0	0
61	2l	7	Total 7	O 7	0	0
61	2p	1	Total 1	O 1	0	0
61	2q	1	Total 1	O 1	0	0
61	2t	3	Total 3	O 3	0	0
61	2u	2	Total 2	O 2	0	0
61	2v	2	Total 2	O 2	0	0
61	2w	2	Total 2	O 2	0	0
61	2x	7	Total 7	O 7	0	0
61	2y	20	Total 20	O 20	0	0

3 Residue-property plots

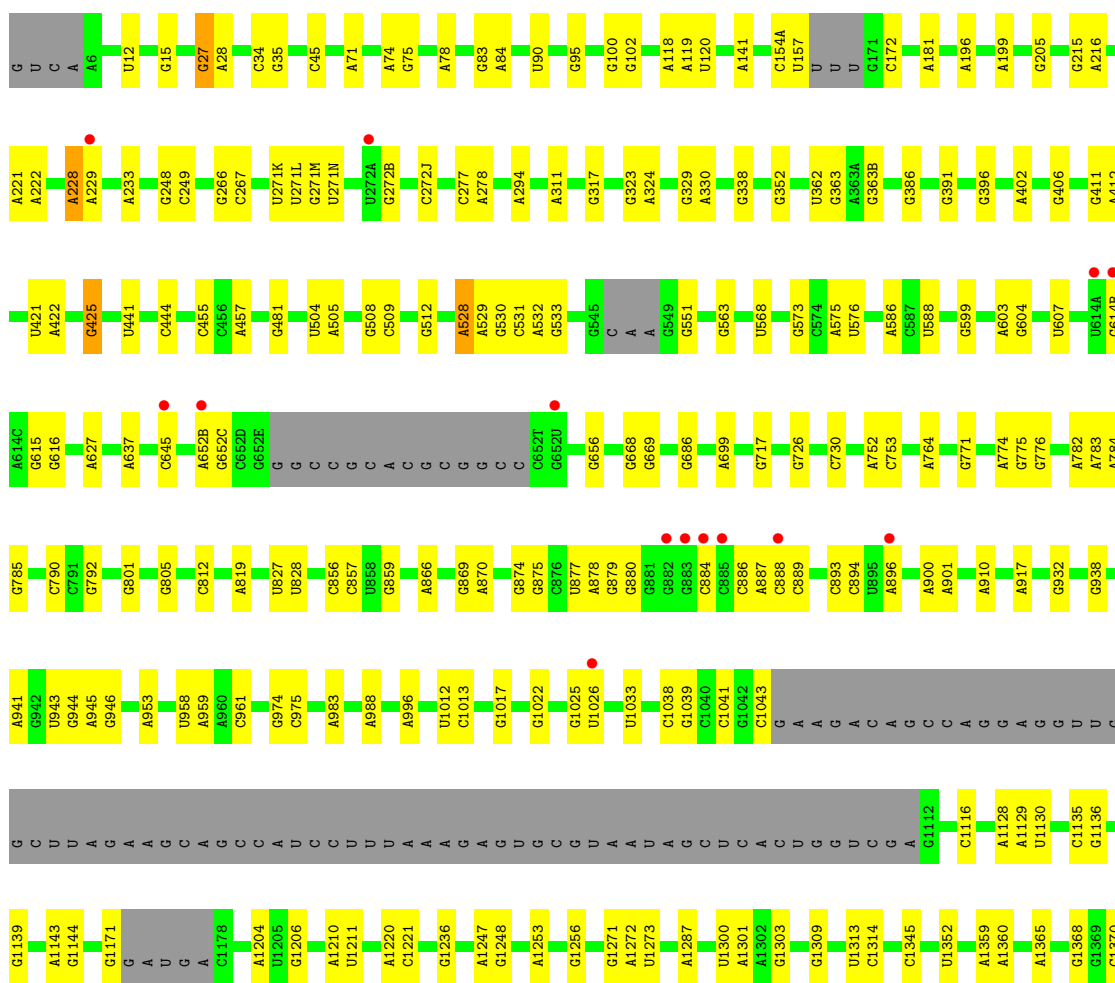
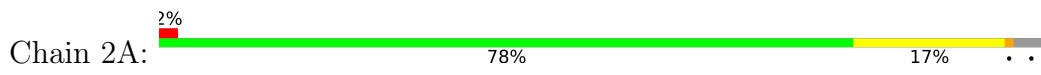
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

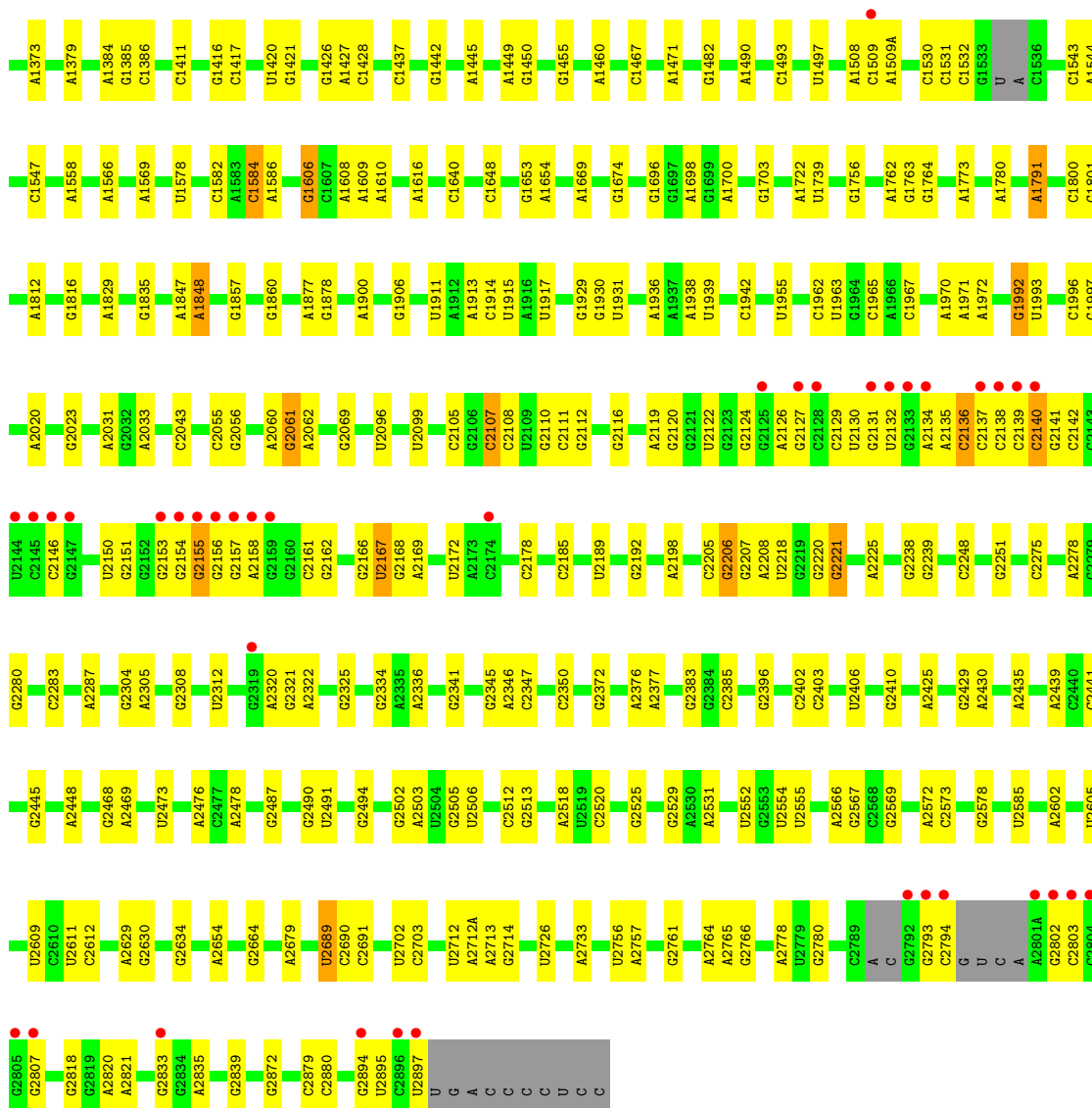
- Molecule 1: 23S ribosomal RNA



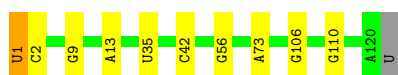


• Molecule 1: 23S ribosomal RNA

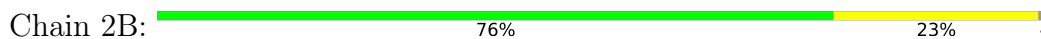




• Molecule 2: 5S ribosomal RNA

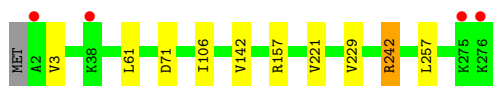


• Molecule 2: 5S ribosomal RNA

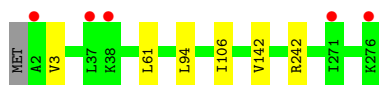


• Molecule 3: 50S ribosomal protein L2





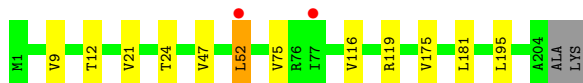
- Molecule 3: 50S ribosomal protein L2



- Molecule 4: 50S ribosomal protein L3



- Molecule 4: 50S ribosomal protein L3



- Molecule 5: 50S ribosomal protein L4



- Molecule 5: 50S ribosomal protein L4



- Molecule 6: 50S ribosomal protein L5



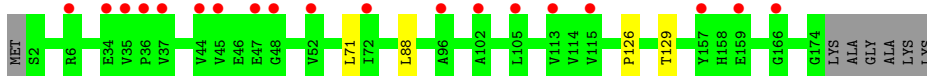
- Molecule 6: 50S ribosomal protein L5



- Molecule 7: 50S ribosomal protein L6



- Molecule 7: 50S ribosomal protein L6



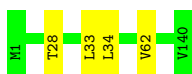
- Molecule 8: 50S ribosomal protein L9



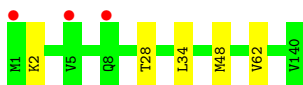
- Molecule 8: 50S ribosomal protein L9



- Molecule 9: 50S ribosomal protein L13



- Molecule 9: 50S ribosomal protein L13



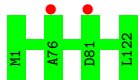
- Molecule 10: 50S ribosomal protein L14

Chain 1O:  100%

There are no outlier residues recorded for this chain.

- Molecule 10: 50S ribosomal protein L14

Chain 2O:  100%



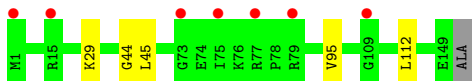
- Molecule 11: 50S ribosomal protein L15

Chain 1P:  97%



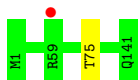
- Molecule 11: 50S ribosomal protein L15

Chain 2P:  96%



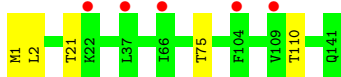
- Molecule 12: 50S ribosomal protein L16

Chain 1Q:  99%



- Molecule 12: 50S ribosomal protein L16

Chain 2Q:  96%



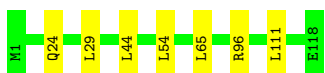
- Molecule 13: 50S ribosomal protein L17

Chain 1R:  92%



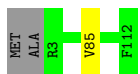
- Molecule 13: 50S ribosomal protein L17

Chain 2R:  94% 6%



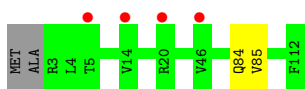
- Molecule 14: 50S ribosomal protein L18

Chain 1S:  97% ..




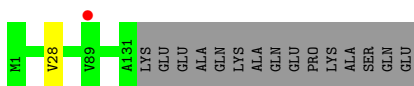
- Molecule 14: 50S ribosomal protein L18

Chain 2S:  4% 96% ..




- Molecule 15: 50S ribosomal protein L19

Chain 1T:  % 89% 10%



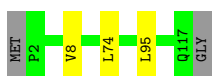
- Molecule 15: 50S ribosomal protein L19

Chain 2T:  3% 88% 10%



- Molecule 16: 50S ribosomal protein L20

Chain 1U:  96% ..



- Molecule 16: 50S ribosomal protein L20

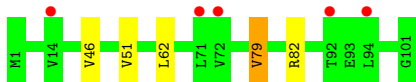
Chain 2U:  2% 98% .



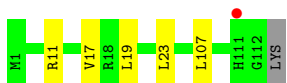
- Molecule 17: 50S ribosomal protein L21



- Molecule 17: 50S ribosomal protein L21



- Molecule 18: 50S ribosomal protein L22



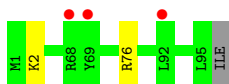
- Molecule 18: 50S ribosomal protein L22



- Molecule 19: 50S ribosomal protein L23



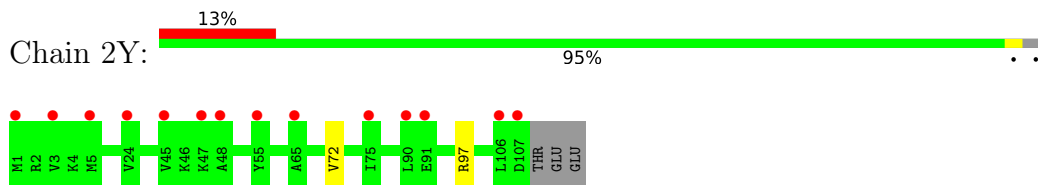
- Molecule 19: 50S ribosomal protein L23



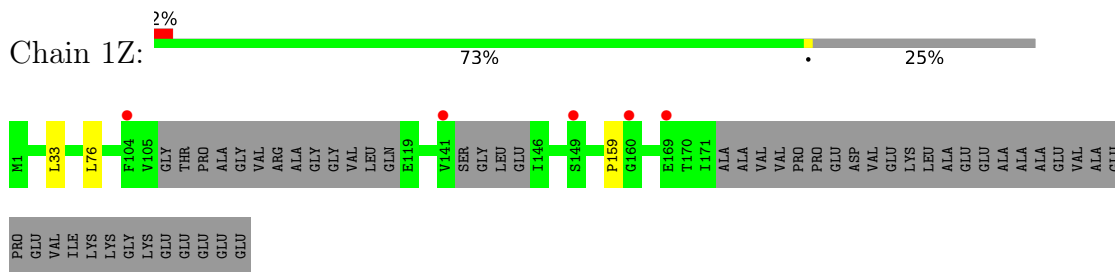
- Molecule 20: 50S ribosomal protein L24



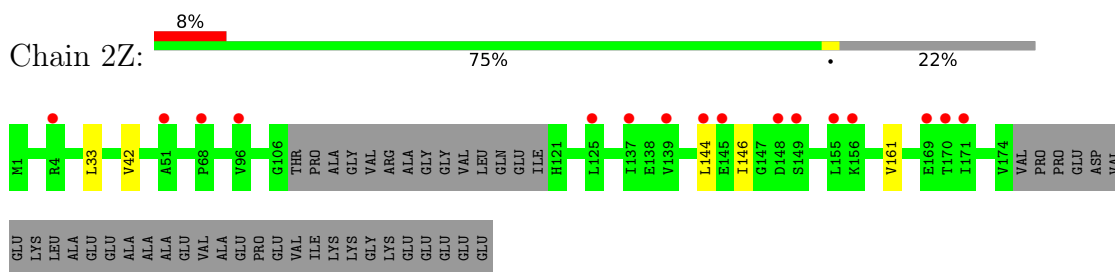
• Molecule 20: 50S ribosomal protein L24



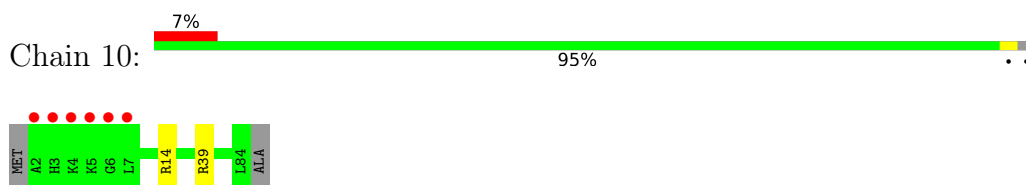
• Molecule 21: 50S ribosomal protein L25



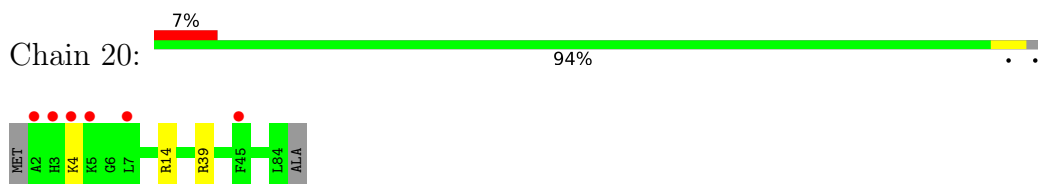
• Molecule 21: 50S ribosomal protein L25



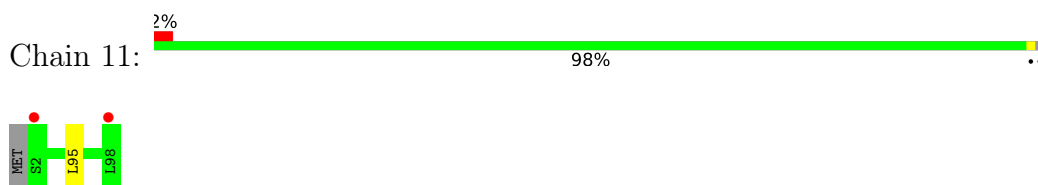
• Molecule 22: 50S ribosomal protein L27



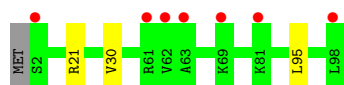
• Molecule 22: 50S ribosomal protein L27



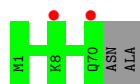
• Molecule 23: 50S ribosomal protein L28



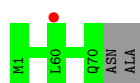
• Molecule 23: 50S ribosomal protein L28



- Molecule 24: 50S ribosomal protein L29



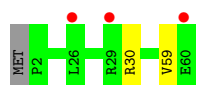
- Molecule 24: 50S ribosomal protein L29



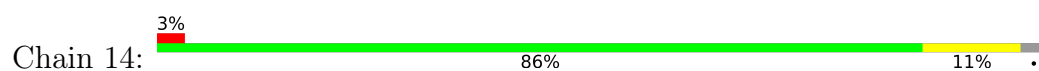
- Molecule 25: 50S ribosomal protein L30



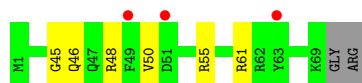
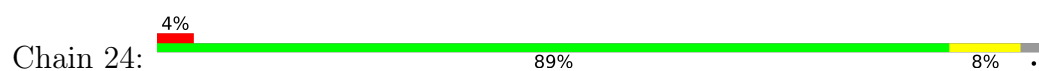
- Molecule 25: 50S ribosomal protein L30



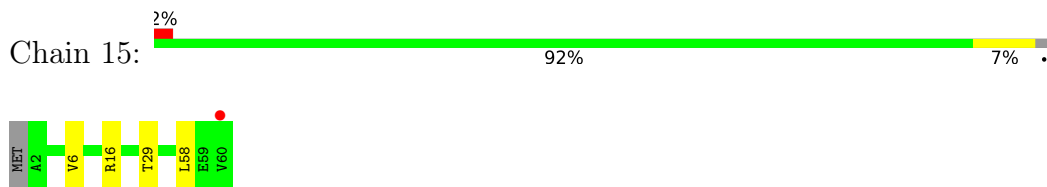
- Molecule 26: 50S ribosomal protein L31



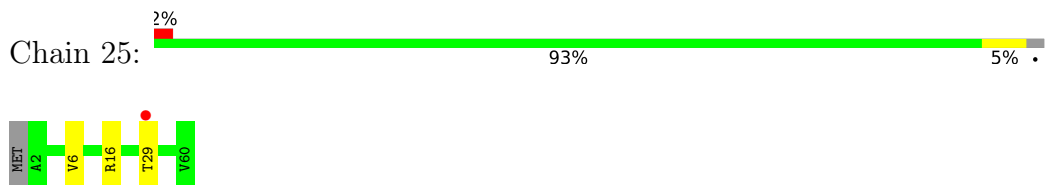
- Molecule 26: 50S ribosomal protein L31



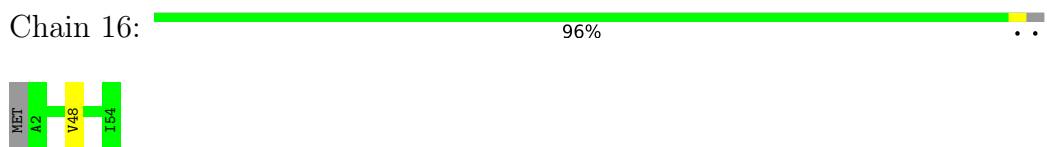
- Molecule 27: 50S ribosomal protein L32



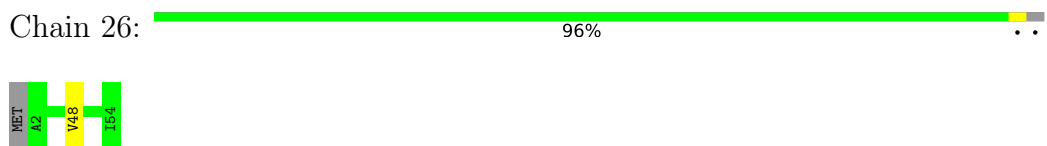
- Molecule 27: 50S ribosomal protein L32



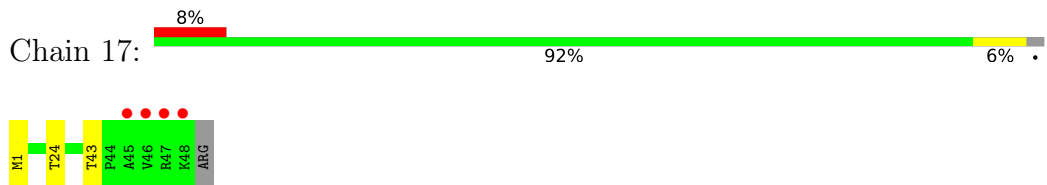
- Molecule 28: 50S ribosomal protein L33



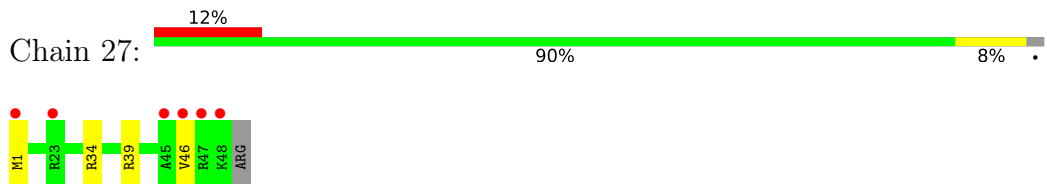
- Molecule 28: 50S ribosomal protein L33



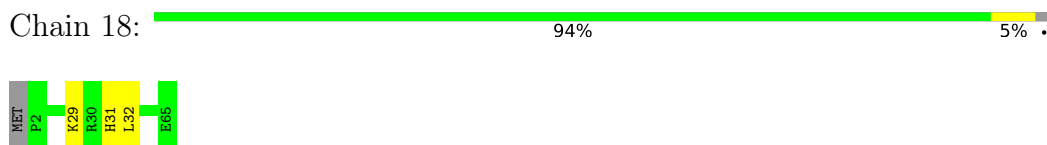
- Molecule 29: 50S ribosomal protein L34



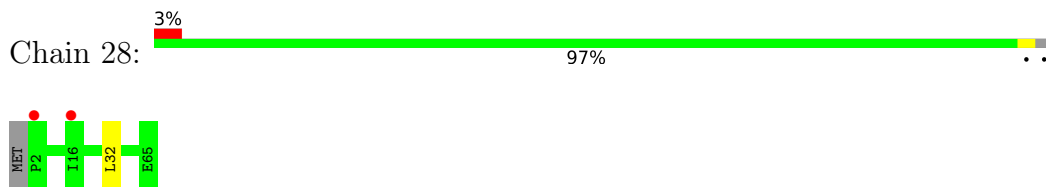
- Molecule 29: 50S ribosomal protein L34



- Molecule 30: 50S ribosomal protein L35



- Molecule 30: 50S ribosomal protein L35

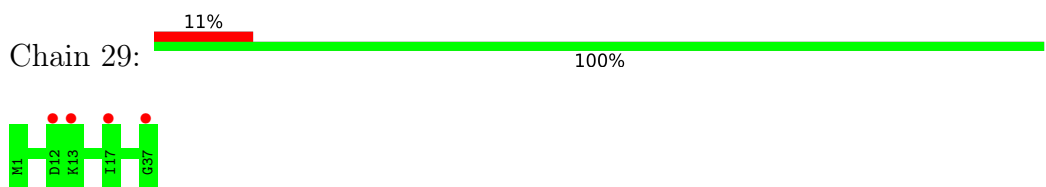


- Molecule 31: 50S ribosomal protein L36

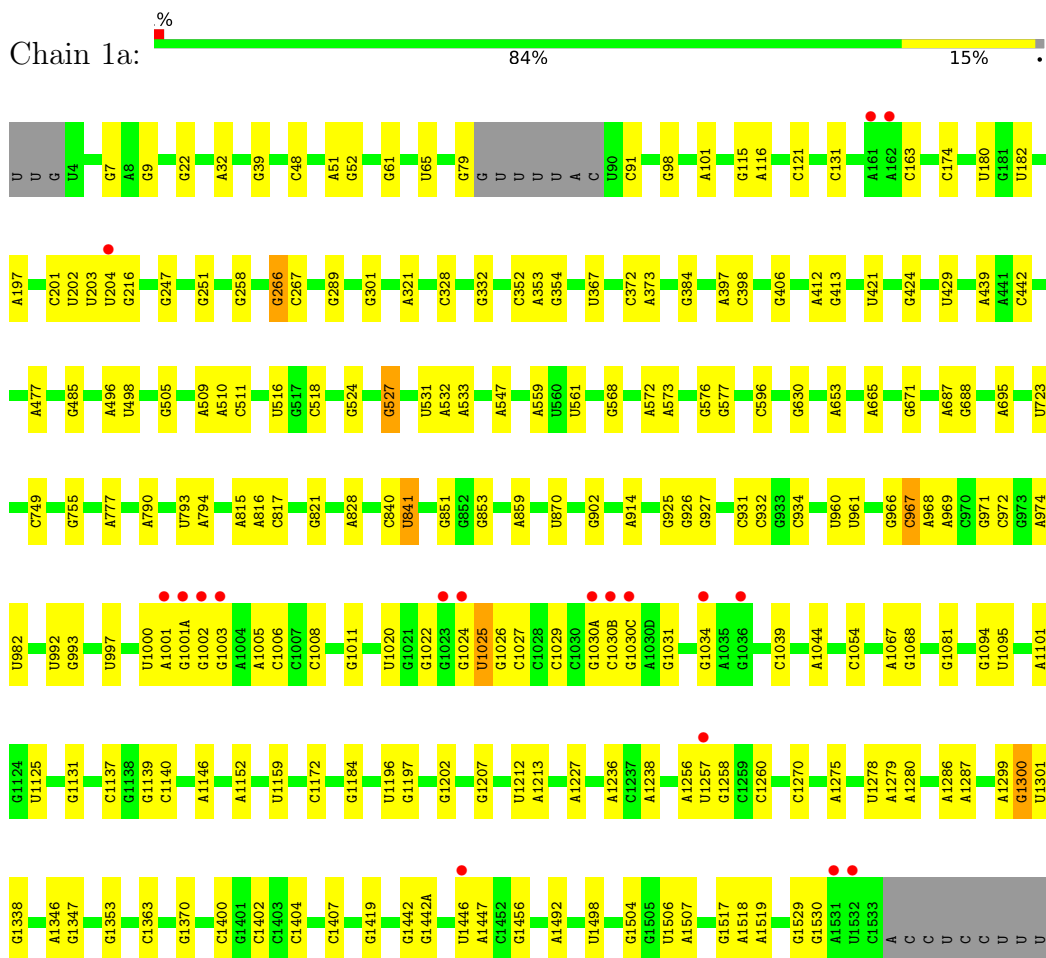


There are no outlier residues recorded for this chain.

- Molecule 31: 50S ribosomal protein L36



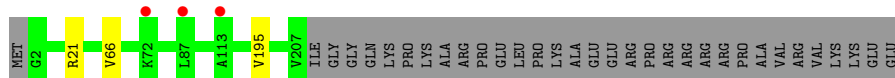
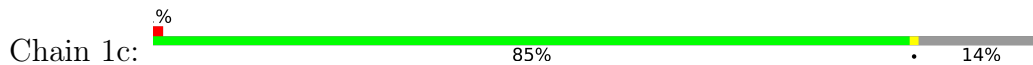
- Molecule 32: 16S ribosomal RNA



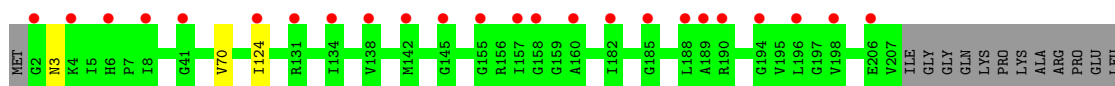
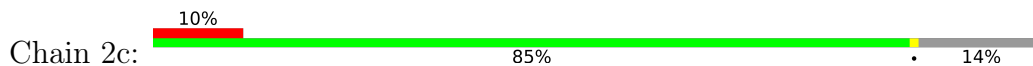
- Molecule 32: 16S ribosomal RNA

VAL
GLU
ALA

- Molecule 34: 30S ribosomal protein S3



- Molecule 34: 30S ribosomal protein S3

PRO
LYS
ALA
GLU
GLU
PRO
ARG
ARG
ARG
PRO
ALA
VAL
VAL
LYS
GLU
GLU

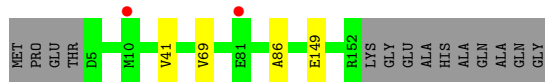
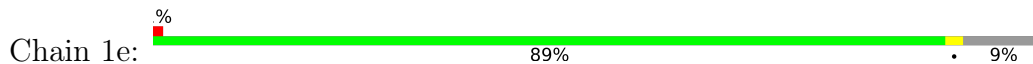
- Molecule 35: 30S ribosomal protein S4



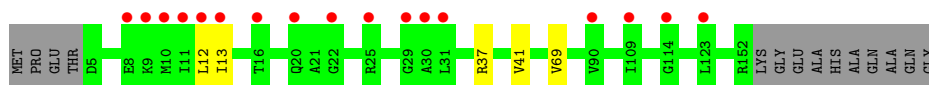
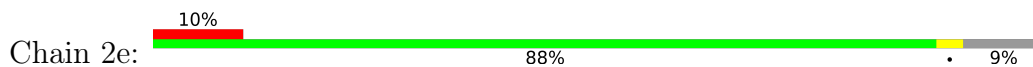
- Molecule 35: 30S ribosomal protein S4



- Molecule 36: 30S ribosomal protein S5



- Molecule 36: 30S ribosomal protein S5



- Molecule 37: 30S ribosomal protein S6



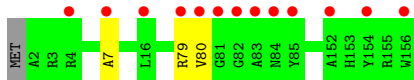
- Molecule 37: 30S ribosomal protein S6



- Molecule 38: 30S ribosomal protein S7



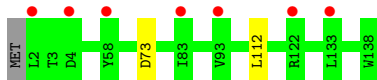
- Molecule 38: 30S ribosomal protein S7



- Molecule 39: 30S ribosomal protein S8



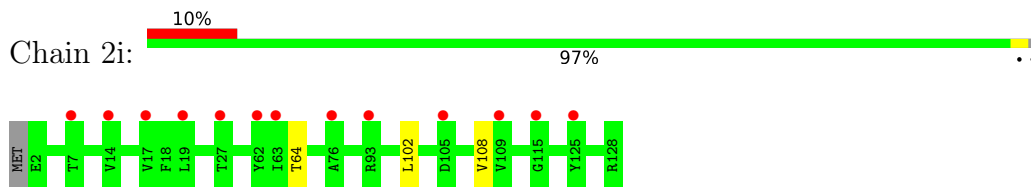
- Molecule 39: 30S ribosomal protein S8



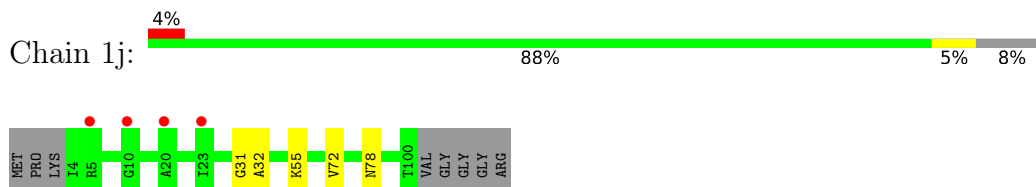
- Molecule 40: 30S ribosomal protein S9



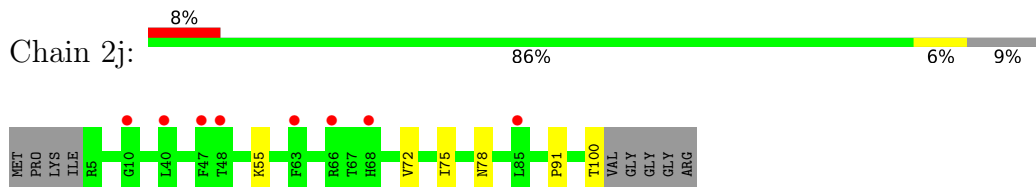
- Molecule 40: 30S ribosomal protein S9



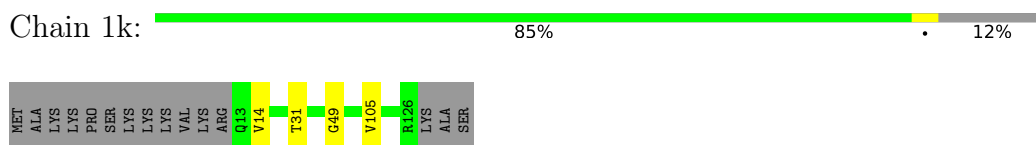
- Molecule 41: 30S ribosomal protein S10



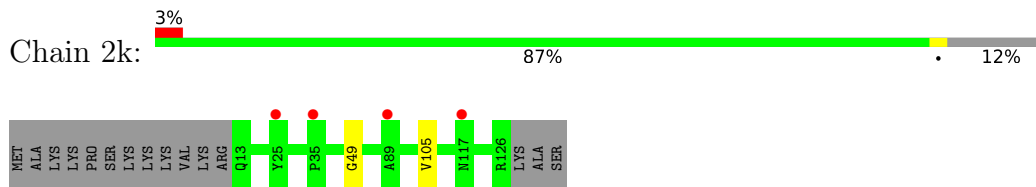
- Molecule 41: 30S ribosomal protein S10



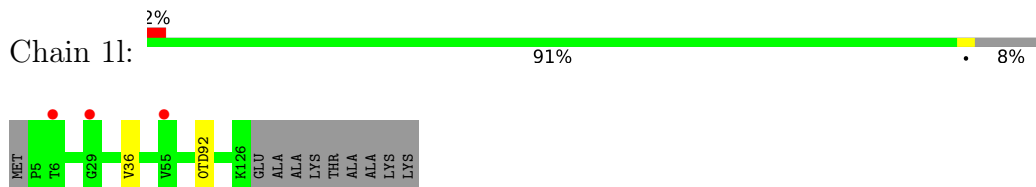
- Molecule 42: 30S ribosomal protein S11



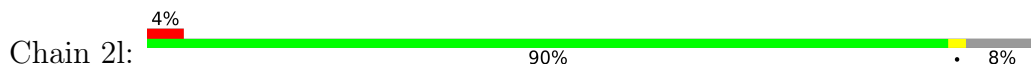
- Molecule 42: 30S ribosomal protein S11

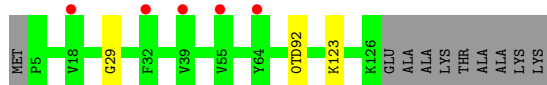


- Molecule 43: 30S ribosomal protein S12

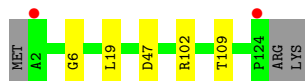


- Molecule 43: 30S ribosomal protein S12

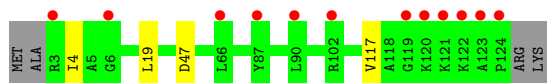




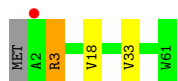
- Molecule 44: 30S ribosomal protein S13



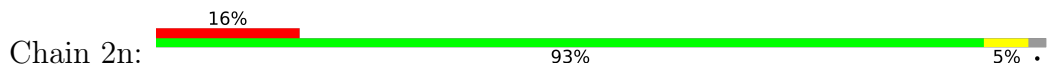
- Molecule 44: 30S ribosomal protein S13



- Molecule 45: 30S ribosomal protein S14 type Z



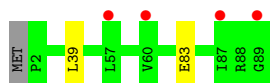
- Molecule 45: 30S ribosomal protein S14 type Z



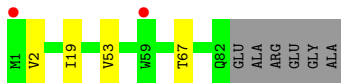
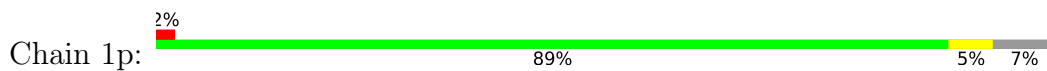
- Molecule 46: 30S ribosomal protein S15



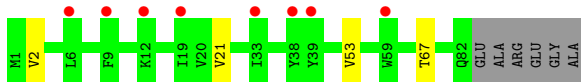
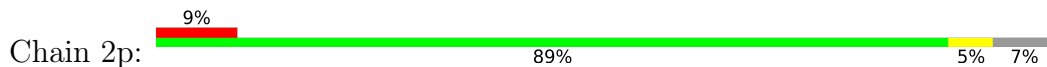
- Molecule 46: 30S ribosomal protein S15



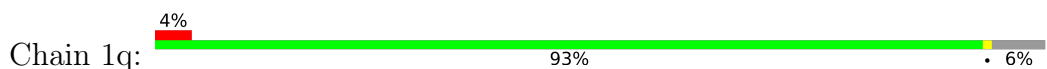
- Molecule 47: 30S ribosomal protein S16



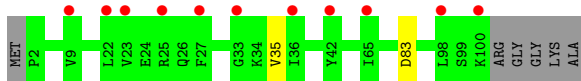
- Molecule 47: 30S ribosomal protein S16



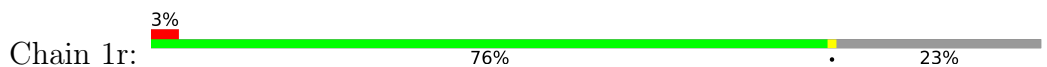
- Molecule 48: 30S ribosomal protein S17



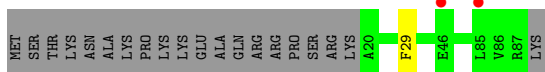
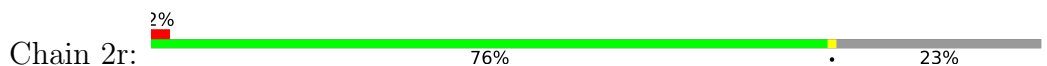
- Molecule 48: 30S ribosomal protein S17



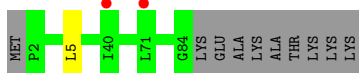
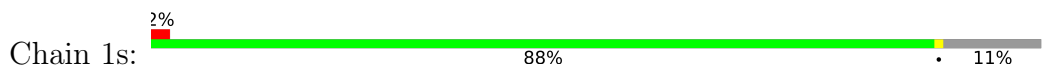
- Molecule 49: 30S ribosomal protein S18



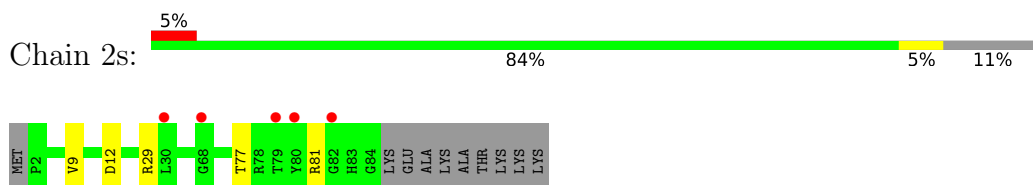
- Molecule 49: 30S ribosomal protein S18



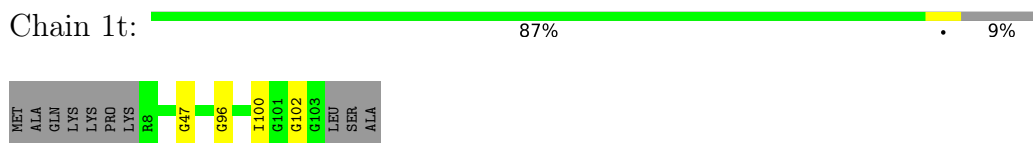
- Molecule 50: 30S ribosomal protein S19



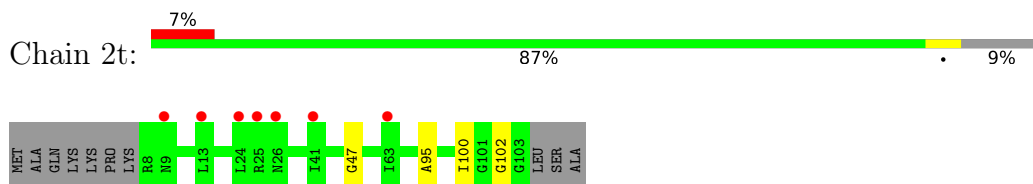
- Molecule 50: 30S ribosomal protein S19



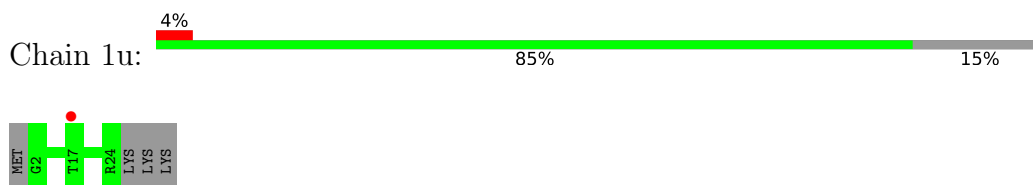
- Molecule 51: 30S ribosomal protein S20



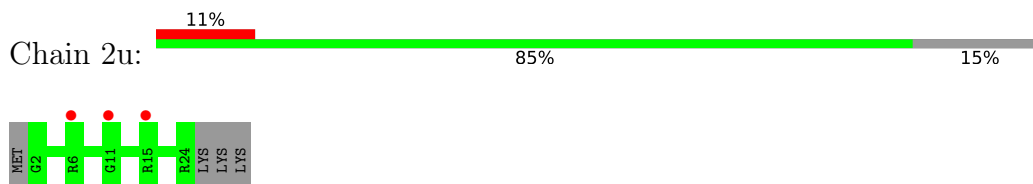
- Molecule 51: 30S ribosomal protein S20



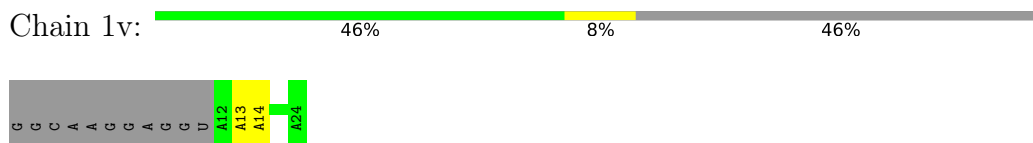
- Molecule 52: 30S ribosomal protein Thx



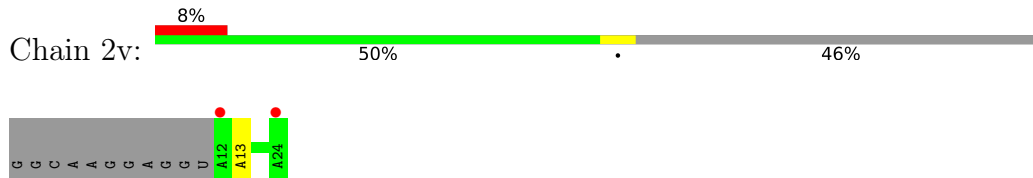
- Molecule 52: 30S ribosomal protein Thx



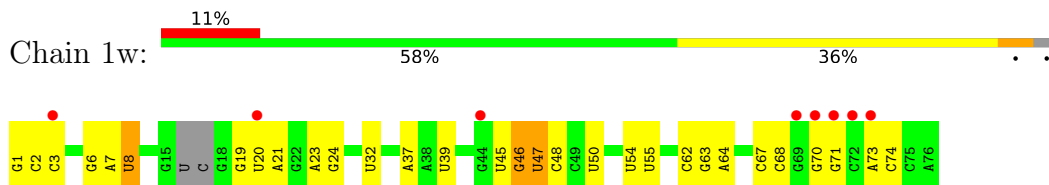
- Molecule 53: mRNA



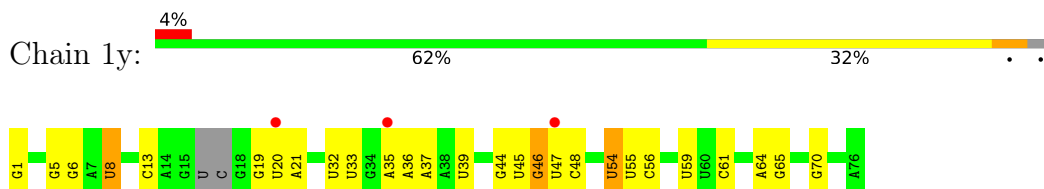
- Molecule 53: mRNA



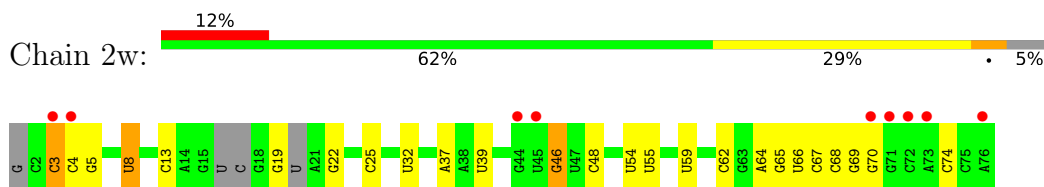
- Molecule 54: A-site and E-site tRNAs



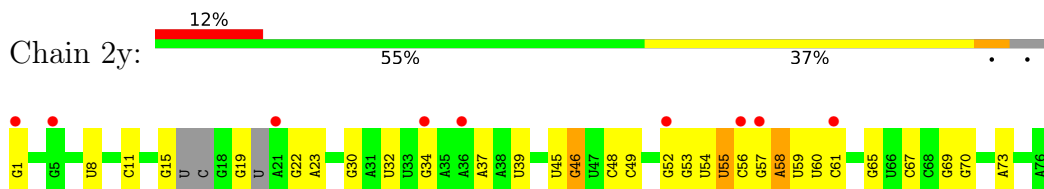
- Molecule 54: A-site and E-site tRNAs



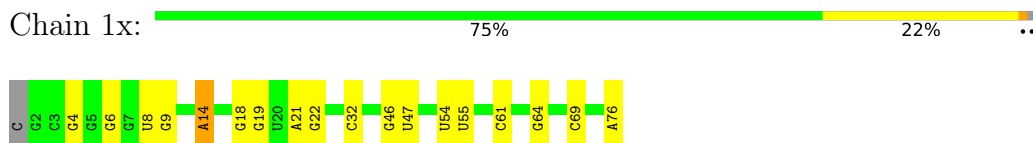
- Molecule 54: A-site and E-site tRNAs



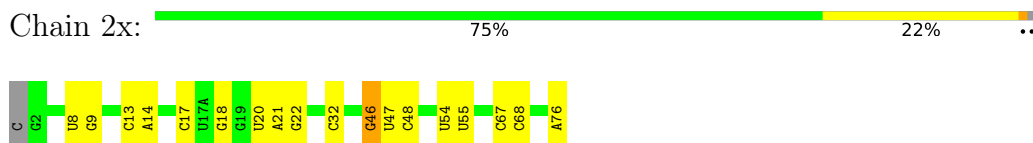
- Molecule 54: A-site and E-site tRNAs



- Molecule 55: P-site tRNA



- Molecule 55: P-site tRNA



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	210.24Å 450.36Å 625.28Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	147.68 – 2.60 365.44 – 2.60	Depositor EDS
% Data completeness (in resolution range)	99.3 (147.68-2.60) 99.3 (365.44-2.60)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.30 (at 2.62Å)	Xtrriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.217 , 0.264 0.218 , 0.264	Depositor DCC
R_{free} test set	89454 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	56.3	Xtrriage
Anisotropy	0.191	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 57.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	301328	wwPDB-VP
Average B, all atoms (Å ²)	60.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.51% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: 0TD, 5MU, ZN, 4OC, K, 4SU, SF4, 2MU, 5MC, OMG, PSU, 2MG, MIA, M2G, 2MA, CPT, MG, 7MG, MA6, UR3

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	1A	0.49	6/69035 (0.0%)	0.92	66/107753 (0.1%)
1	2A	0.42	6/67293 (0.0%)	0.90	45/105034 (0.0%)
2	1B	0.41	1/2882 (0.0%)	0.81	0/4494
2	2B	0.47	1/2879 (0.0%)	0.89	1/4487 (0.0%)
3	1D	0.36	0/2186	0.58	1/2944 (0.0%)
3	2D	0.32	0/2186	0.55	0/2944
4	1E	0.36	0/1592	0.55	0/2149
4	2E	0.31	0/1592	0.57	0/2149
5	1F	0.33	0/1619	0.54	1/2193 (0.0%)
5	2F	0.32	0/1615	0.54	0/2188
6	1G	0.30	0/1448	0.51	0/1957
6	2G	0.30	0/1453	0.54	0/1963
7	1H	0.31	0/1347	0.50	0/1823
7	2H	0.29	0/1347	0.51	0/1823
8	1I	0.28	0/1112	0.52	0/1514
8	2I	0.25	0/1079	0.50	0/1475
9	1N	0.33	0/1144	0.52	0/1543
9	2N	0.30	0/1144	0.50	0/1543
10	1O	0.35	0/943	0.52	0/1269
10	2O	0.29	0/943	0.49	0/1269
11	1P	0.34	0/1152	0.58	0/1533
11	2P	0.30	0/1152	0.60	1/1533 (0.1%)
12	1Q	0.35	0/1143	0.51	0/1527
12	2Q	0.32	0/1143	0.57	0/1527
13	1R	0.33	0/982	0.55	0/1312
13	2R	0.30	0/982	0.53	0/1312
14	1S	0.30	0/883	0.53	0/1176
14	2S	0.31	0/880	0.52	0/1172
15	1T	0.33	0/1105	0.52	0/1477
15	2T	0.29	0/1097	0.53	0/1468
16	1U	0.39	0/977	0.54	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.34	0/977	0.51	0/1301
17	1V	0.36	0/782	0.52	0/1049
17	2V	0.33	0/782	0.55	0/1049
18	1W	0.37	0/897	0.53	0/1205
18	2W	0.33	0/897	0.50	0/1205
19	1X	0.36	0/764	0.55	0/1025
19	2X	0.33	0/764	0.52	0/1025
20	1Y	0.33	0/819	0.55	0/1095
20	2Y	0.31	0/819	0.50	0/1095
21	1Z	0.30	0/1267	0.54	0/1717
21	2Z	0.29	0/1299	0.55	0/1763
22	10	0.34	0/662	0.56	0/881
22	20	0.30	0/662	0.49	0/881
23	11	0.31	0/762	0.52	0/1014
23	21	0.30	0/762	0.51	0/1014
24	12	0.29	0/590	0.51	0/781
24	22	0.29	0/590	0.42	0/781
25	13	0.32	0/474	0.52	0/635
25	23	0.29	0/469	0.51	0/630
26	14	0.33	0/565	0.64	0/761
26	24	0.32	0/545	0.56	0/737
27	15	0.33	0/469	0.54	0/635
27	25	0.31	0/469	0.55	0/635
28	16	0.36	0/460	0.53	0/613
28	26	0.30	0/456	0.47	0/608
29	17	0.36	0/426	0.56	0/561
29	27	0.35	0/426	0.65	0/561
30	18	0.35	0/525	0.54	0/691
30	28	0.33	0/525	0.52	0/691
31	19	0.34	0/310	0.49	0/407
31	29	0.30	0/310	0.51	0/407
32	1a	0.35	2/35795 (0.0%)	0.85	24/55864 (0.0%)
32	2a	0.35	4/35886 (0.0%)	0.86	31/56005 (0.1%)
33	1b	0.28	0/1881	0.52	0/2542
33	2b	0.30	0/1860	0.53	0/2518
34	1c	0.26	0/1572	0.47	0/2126
34	2c	0.29	0/1566	0.50	0/2119
35	1d	0.28	0/1685	0.49	0/2262
35	2d	0.28	0/1704	0.50	0/2284
36	1e	0.29	0/1145	0.51	0/1543
36	2e	0.30	0/1149	0.55	0/1548
37	1f	0.28	0/823	0.47	0/1115
37	2f	0.29	0/829	0.47	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.26	0/1250	0.46	0/1679
38	2g	0.27	0/1254	0.49	0/1683
39	1h	0.26	0/1108	0.50	0/1494
39	2h	0.27	0/1108	0.50	0/1494
40	1i	0.29	0/1002	0.53	0/1346
40	2i	0.28	0/997	0.53	0/1343
41	1j	0.27	0/722	0.54	0/982
41	2j	0.28	0/727	0.57	0/988
42	1k	0.27	0/844	0.48	0/1145
42	2k	0.28	0/848	0.48	0/1149
43	1l	0.29	0/937	0.50	0/1260
43	2l	0.28	0/937	0.57	1/1260 (0.1%)
44	1m	0.28	0/969	0.53	0/1302
44	2m	0.28	0/961	0.55	0/1291
45	1n	0.30	0/501	0.57	1/664 (0.2%)
45	2n	0.28	0/501	0.51	0/664
46	1o	0.26	0/739	0.45	0/985
46	2o	0.27	0/739	0.49	0/985
47	1p	0.28	0/697	0.51	0/939
47	2p	0.28	0/693	0.48	0/935
48	1q	0.28	0/836	0.50	0/1117
48	2q	0.28	0/836	0.48	0/1117
49	1r	0.27	0/560	0.49	0/746
49	2r	0.28	0/560	0.46	0/746
50	1s	0.26	0/667	0.52	0/900
50	2s	0.31	0/661	0.62	0/893
51	1t	0.25	0/730	0.52	0/965
51	2t	0.26	0/729	0.48	0/965
52	1u	0.24	0/203	0.41	0/266
52	2u	0.28	0/203	0.50	0/266
53	1v	0.34	0/310	0.86	0/480
53	2v	0.36	0/310	0.79	0/480
54	1w	0.51	1/1606 (0.1%)	1.05	3/2497 (0.1%)
54	1y	0.49	1/1606 (0.1%)	1.03	4/2497 (0.2%)
54	2w	0.46	0/1556	1.08	1/2418 (0.0%)
54	2y	0.52	1/1583 (0.1%)	1.05	4/2459 (0.2%)
55	1x	0.52	0/1725	1.15	19/2689 (0.7%)
55	2x	0.44	0/1725	1.06	13/2689 (0.5%)
All	All	0.40	23/316694 (0.0%)	0.82	216/474132 (0.0%)

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2A	2221	G	C8-N7	13.29	1.39	1.30
1	1A	2233	G	C8-N7	13.14	1.38	1.30
1	2A	27	G	C8-N7	12.76	1.38	1.30
1	1A	452	G	C8-N7	12.71	1.38	1.30
1	2A	425	G	C8-N7	12.41	1.38	1.30
1	1A	27	G	C8-N7	12.37	1.38	1.30
32	2a	1300	G	C8-N7	12.04	1.38	1.30
1	1A	1652	G	C8-N7	11.27	1.37	1.30
32	1a	1300	G	C8-N7	11.19	1.37	1.30
54	1y	1	G	OP3-P	-10.26	1.48	1.61
1	2A	1606	G	C8-N7	10.19	1.37	1.30
54	1w	1	G	OP3-P	-10.17	1.49	1.61
54	2y	1	G	OP3-P	-10.16	1.49	1.61
2	2B	1	U	OP3-P	-10.01	1.49	1.61
2	1B	1	U	OP3-P	-9.97	1.49	1.61
1	2A	1848	A	C8-N7	8.89	1.37	1.31
1	1A	1879	A	C8-N7	8.78	1.37	1.31
1	2A	2531	A	C8-N7	8.74	1.37	1.31
1	1A	2543	A	C8-N7	8.14	1.37	1.31
32	2a	790	A	C8-N7	7.89	1.37	1.31
32	1a	790	A	C8-N7	7.63	1.36	1.31
32	2a	1272	G	C6-N1	-7.52	1.34	1.39
32	2a	1272	G	N1-C2	-6.38	1.32	1.37

All (216) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	1272	G	C5-C6-O6	16.34	138.40	128.60
32	2a	1272	G	N1-C2-N2	-13.94	103.65	116.20
32	2a	1272	G	N3-C2-N2	13.71	129.50	119.90
32	2a	1263	C	N1-C2-O2	12.43	126.36	118.90
32	2a	1272	G	N1-C6-O6	-11.45	113.03	119.90
1	1A	1686	U	O5'-P-OP2	-10.69	96.08	105.70
55	1x	46	G	C6-N1-C2	-10.61	118.74	125.10
2	2B	80	U	O4'-C1'-N1	10.50	116.60	108.20
1	1A	1121	C	C2-N3-C4	9.95	124.88	119.90
1	1A	1807	G	O5'-P-OP2	-9.82	96.86	105.70
1	1A	1109	G	C5-C6-O6	9.47	134.28	128.60
32	2a	1263	C	C2-N3-C4	9.23	124.51	119.90
1	1A	1121	C	N1-C2-O2	9.03	124.32	118.90
32	1a	1027	C	N3-C2-O2	-8.88	115.68	121.90
1	1A	840	A	O5'-P-OP2	-8.68	97.88	105.70
54	1y	33	U	C2-N1-C1'	8.43	127.81	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	1x	22	G	C5-N7-C8	-8.33	100.13	104.30
55	1x	14	A	C4-C5-C6	8.32	121.16	117.00
55	2x	46	G	C6-N1-C2	-8.32	120.11	125.10
32	2a	1272	G	C4-N9-C1'	8.21	137.17	126.50
32	2a	1263	C	N3-C2-O2	-8.16	116.19	121.90
1	1A	2189	U	C2-N1-C1'	7.99	127.29	117.70
1	2A	2473	U	C2-N1-C1'	7.96	127.25	117.70
32	1a	1030(B)	C	C2-N1-C1'	7.94	127.54	118.80
1	1A	537	G	O4'-C1'-N9	7.91	114.53	108.20
1	1A	1020	C	N1-C2-O2	-7.87	114.18	118.90
1	1A	27	G	C4'-C3'-O3'	-7.87	92.88	109.40
32	2a	1272	G	C8-N9-C1'	-7.81	116.84	127.00
1	1A	1109	G	C6-N1-C2	7.81	129.78	125.10
32	1a	1027	C	C6-N1-C2	-7.81	117.18	120.30
1	1A	2566	U	O5'-P-OP1	-7.63	98.83	105.70
55	2x	17	C	N3-C2-O2	-7.57	116.60	121.90
1	1A	28	A	O5'-P-OP2	-7.53	98.93	105.70
32	1a	1027	C	C5-C4-N4	7.52	125.46	120.20
1	2A	801	G	O5'-P-OP2	-7.48	98.97	105.70
32	1a	1030(B)	C	N1-C2-O2	7.46	123.38	118.90
55	2x	17	C	N1-C2-O2	7.40	123.34	118.90
1	1A	2189	U	N1-C2-O2	7.34	127.94	122.80
1	2A	2061	G	O5'-P-OP2	-7.26	99.16	105.70
32	1a	1300	G	C2'-C3'-O3'	-7.22	93.62	109.50
1	1A	1660	A	O5'-P-OP1	-7.17	99.25	105.70
55	1x	14	A	C5-N7-C8	7.16	107.48	103.90
1	2A	2221	G	C2'-C3'-O3'	-7.14	93.79	109.50
1	1A	2233	G	C2'-C3'-O3'	-7.12	93.84	109.50
1	1A	1985	U	C2-N1-C1'	7.08	126.20	117.70
1	2A	2167	U	N1-C2-O2	7.06	127.74	122.80
32	1a	1034	G	N3-C2-N2	7.05	124.83	119.90
32	2a	1300	G	C2'-C3'-O3'	-7.03	94.04	109.50
1	1A	1121	C	C5-C4-N4	7.02	125.12	120.20
55	1x	46	G	C5-C6-N1	6.96	114.98	111.50
54	1w	47	U	C2-N1-C1'	6.96	126.05	117.70
1	1A	599	U	O5'-P-OP1	-6.94	99.45	105.70
1	1A	1045	U	O5'-P-OP2	-6.93	99.46	105.70
1	1A	12	U	C2-N1-C1'	6.90	125.98	117.70
1	1A	848	G	O5'-P-OP2	-6.89	99.50	105.70
1	1A	215	G	O4'-C1'-N9	6.83	113.67	108.20
32	2a	79	G	C5-C6-O6	6.83	132.70	128.60
32	1a	1025	U	N1-C2-O2	6.80	127.56	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	1263	C	C5-C4-N4	6.78	124.94	120.20
1	1A	2014	G	P-O3'-C3'	6.75	127.80	119.70
1	1A	2189	U	N3-C2-O2	-6.71	117.50	122.20
1	1A	2694	U	O5'-P-OP2	-6.71	99.66	105.70
55	1x	22	G	C4-C5-C6	-6.70	114.78	118.80
1	2A	2167	U	N3-C2-O2	-6.68	117.53	122.20
1	1A	2504	U	O5'-P-OP1	-6.63	99.73	105.70
1	1A	1109	G	N3-C2-N2	6.58	124.51	119.90
32	2a	754	C	C2-N1-C1'	6.57	126.03	118.80
1	2A	2140	C	N1-C2-O2	6.54	122.83	118.90
1	2A	512	G	O4'-C1'-N9	6.53	113.43	108.20
32	1a	841	U	C5-C6-N1	6.51	125.95	122.70
55	2x	22	G	C5-N7-C8	-6.51	101.05	104.30
1	1A	27	G	C2'-C3'-O3'	-6.49	95.23	109.50
32	1a	1027	C	N1-C2-O2	6.48	122.79	118.90
32	1a	1027	C	N3-C4-C5	-6.47	119.31	121.90
32	1a	1300	G	C4'-C3'-O3'	-6.47	95.82	109.40
1	2A	2205	C	C6-N1-C2	-6.47	117.71	120.30
54	1y	33	U	N1-C2-O2	6.46	127.32	122.80
32	2a	1001(A)	G	N3-C4-N9	6.45	129.87	126.00
1	2A	1992	G	P-O3'-C3'	6.44	127.43	119.70
55	2x	14	A	C5-N7-C8	6.44	107.12	103.90
55	2x	17	C	C2-N1-C1'	6.41	125.85	118.80
32	2a	1272	G	C2-N3-C4	-6.39	108.70	111.90
1	1A	649	C	O5'-P-OP1	-6.39	99.95	105.70
1	1A	1132	A	N1-C6-N6	-6.37	114.78	118.60
55	2x	14	A	C4-C5-C6	6.37	120.19	117.00
1	2A	2689	U	P-O3'-C3'	6.34	127.31	119.70
32	1a	1034	G	N9-C4-C5	-6.33	102.87	105.40
1	1A	1985	U	N1-C2-O2	6.32	127.22	122.80
1	1A	2701	U	P-O3'-C3'	6.31	127.27	119.70
32	1a	1030(B)	C	C6-N1-C2	-6.27	117.79	120.30
1	2A	1606	G	C2'-C3'-O3'	-6.25	95.75	109.50
55	1x	46	G	N3-C2-N2	-6.25	115.53	119.90
32	1a	1034	G	C6-N1-C2	6.23	128.84	125.10
1	2A	2167	U	C2-N1-C1'	6.18	125.12	117.70
1	2A	2473	U	N3-C2-O2	-6.18	117.87	122.20
1	2A	425	G	C2'-C3'-O3'	-6.18	95.91	109.50
32	2a	754	C	N1-C2-O2	6.16	122.60	118.90
1	1A	2589	A	O5'-P-OP1	-6.14	100.17	105.70
1	2A	1313	U	C2-N1-C1'	6.13	125.05	117.70
32	2a	1025	U	N1-C2-O2	6.12	127.08	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2641	A	P-O3'-C3'	6.09	127.01	119.70
32	1a	266	G	P-O3'-C3'	6.06	126.97	119.70
1	2A	2689	U	N3-C2-O2	-6.04	117.97	122.20
1	2A	2206	G	C4-N9-C1'	-6.02	118.67	126.50
55	1x	14	A	C5-C6-N1	-6.00	114.70	117.70
32	2a	1263	C	C6-N1-C2	-5.96	117.92	120.30
1	1A	556	C	O5'-P-OP2	-5.95	100.34	105.70
32	2a	1300	G	C4'-C3'-O3'	-5.95	96.91	109.40
1	1A	452	G	C2'-C3'-O3'	-5.94	96.43	109.50
32	1a	1030(B)	C	N3-C2-O2	-5.93	117.75	121.90
1	1A	591	U	C5-C4-O4	-5.90	122.36	125.90
55	1x	22	G	C5-C6-N1	5.90	114.45	111.50
55	2x	17	C	C6-N1-C2	-5.89	117.94	120.30
1	2A	2473	U	N1-C2-O2	5.89	126.92	122.80
1	1A	1020	C	C2-N1-C1'	-5.88	112.34	118.80
32	2a	1272	G	C5-C6-N1	-5.87	108.56	111.50
1	2A	1698	A	O4'-C1'-N9	5.86	112.89	108.20
1	2A	27	G	C4'-C3'-O3'	-5.80	97.21	109.40
1	1A	892	G	O4'-C1'-N9	5.79	112.83	108.20
54	1y	33	U	C6-N1-C1'	-5.78	113.10	121.20
55	1x	46	G	C4-C5-N7	-5.78	108.49	110.80
54	2y	58	A	OP1-P-O3'	5.73	117.80	105.20
1	2A	2130	U	C5-C6-N1	5.69	125.54	122.70
55	1x	22	G	C8-N9-C1'	5.68	134.38	127.00
32	2a	1039	C	C5-C4-N4	-5.68	116.22	120.20
1	2A	2248	C	O5'-P-OP2	-5.67	100.59	105.70
1	1A	1652	G	C2'-C3'-O3'	-5.67	97.02	109.50
1	1A	2803	A	C2-N3-C4	5.66	113.43	110.60
54	2w	3	C	C2-N1-C1'	5.66	125.02	118.80
1	2A	2140	C	C2-N1-C1'	5.65	125.02	118.80
32	2a	1272	G	C6-N1-C2	5.64	128.49	125.10
55	2x	46	G	N3-C2-N2	-5.64	115.95	119.90
55	2x	14	A	C5-C6-N1	-5.64	114.88	117.70
1	2A	1313	U	O4'-C1'-N1	5.63	112.71	108.20
1	1A	894	U	C2-N1-C1'	5.62	124.45	117.70
1	2A	2136	C	N1-C2-O2	5.61	122.26	118.90
1	1A	2858	G	O4'-C1'-N9	5.60	112.68	108.20
1	2A	2107	C	C2-N3-C4	5.60	122.70	119.90
1	1A	1359	U	C2-N1-C1'	5.59	124.40	117.70
1	1A	31	C	O5'-P-OP1	-5.56	100.69	105.70
43	2l	29	GLY	N-CA-C	-5.53	99.26	113.10
55	1x	46	G	N9-C4-C5	5.51	107.60	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2697	G	N1-C6-O6	-5.49	116.61	119.90
1	2A	2139	C	N1-C2-O2	5.49	122.19	118.90
1	1A	793	A	O4'-C1'-N9	5.48	112.59	108.20
45	1n	3	ARG	NE-CZ-NH2	5.46	123.03	120.30
1	2A	1791	A	O5'-P-OP1	-5.46	100.79	105.70
1	2A	2220	G	N9-C1'-C2'	-5.46	106.00	112.00
32	2a	913	A	P-O3'-C3'	5.45	126.24	119.70
55	1x	22	G	N7-C8-N9	5.45	115.82	113.10
1	1A	572	A	P-O3'-C3'	5.44	126.23	119.70
55	1x	22	G	N1-C6-O6	-5.43	116.64	119.90
32	1a	1067	A	P-O3'-C3'	5.43	126.21	119.70
1	2A	228	A	P-O3'-C3'	5.42	126.21	119.70
32	2a	79	G	N3-C4-N9	-5.40	122.76	126.00
1	1A	410	U	O4'-C1'-N1	5.40	112.52	108.20
1	2A	2712	U	O4'-C1'-N1	5.39	112.52	108.20
1	1A	2014	G	C8-N9-C4	-5.38	104.25	106.40
55	1x	4	G	C5-C6-O6	-5.37	125.38	128.60
32	2a	266	G	P-O3'-C3'	5.37	126.15	119.70
1	2A	2206	G	C8-N9-C1'	5.37	133.98	127.00
54	2y	22	G	N1-C6-O6	5.36	123.12	119.90
32	1a	1034	G	C4-C5-N7	5.36	112.94	110.80
1	1A	2050	U	N3-C4-O4	-5.35	115.65	119.40
1	1A	831	A	O4'-C1'-N9	5.34	112.47	108.20
1	1A	655	G	C5-N7-C8	5.33	106.97	104.30
1	2A	141	A	N7-C8-N9	5.32	116.46	113.80
55	2x	46	G	C5-C6-N1	5.30	114.15	111.50
1	2A	1669	A	C8-N9-C4	-5.29	103.68	105.80
55	1x	14	A	C8-N9-C1'	-5.29	118.19	127.70
3	1D	242	ARG	NE-CZ-NH1	5.28	122.94	120.30
1	1A	1219	A	OP1-P-O3'	5.28	116.81	105.20
1	1A	1985	U	N3-C2-O2	-5.27	118.51	122.20
32	2a	65	U	P-O3'-C3'	5.26	126.01	119.70
54	2y	11	C	N1-C2-O2	5.26	122.05	118.90
55	1x	14	A	C4-N9-C1'	5.25	135.75	126.30
1	1A	1128	U	C2-N1-C1'	5.23	123.98	117.70
11	2P	44	GLY	C-N-CA	5.23	134.78	121.70
1	1A	1359	U	N3-C2-O2	-5.22	118.54	122.20
1	2A	2345	G	C8-N9-C4	-5.22	104.31	106.40
1	2A	2220	G	N3-C4-N9	-5.22	122.87	126.00
54	1w	47	U	C5-C6-N1	5.21	125.30	122.70
32	2a	984	C	C2-N3-C4	5.21	122.50	119.90
1	2A	2155	G	C6-N1-C2	5.20	128.22	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	1025	U	C2-N1-C1'	5.20	123.94	117.70
32	1a	925	G	C5-C6-O6	-5.20	125.48	128.60
1	1A	1109	G	N1-C6-O6	-5.18	116.79	119.90
1	1A	2189	U	C5-C6-N1	5.17	125.28	122.70
1	2A	1204	A	O4'-C1'-N9	5.17	112.34	108.20
1	1A	1109	G	C5-C6-N1	-5.15	108.92	111.50
1	1A	2701	U	N3-C2-O2	-5.15	118.59	122.20
54	2y	58	A	P-O3'-C3'	5.15	125.88	119.70
32	2a	1001(A)	G	C4-N9-C1'	5.15	133.19	126.50
55	1x	4	G	N3-C4-N9	5.15	129.09	126.00
1	1A	1219	A	P-O3'-C3'	5.15	125.88	119.70
54	1w	47	U	N1-C2-O2	5.15	126.40	122.80
32	1a	1030(B)	C	C6-N1-C1'	-5.13	114.64	120.80
54	1y	33	U	N3-C2-O2	-5.13	118.61	122.20
55	2x	22	G	C4-C5-C6	-5.12	115.73	118.80
1	2A	576	U	O5'-P-OP1	-5.12	101.09	105.70
1	1A	1121	C	N3-C4-C5	-5.11	119.86	121.90
32	1a	1030(B)	C	C5-C6-N1	5.11	123.55	121.00
1	2A	528	A	P-O3'-C3'	5.10	125.82	119.70
32	2a	1263	C	C5-C6-N1	5.09	123.54	121.00
1	2A	528	A	OP1-P-O3'	5.08	116.37	105.20
1	2A	2473	U	C6-N1-C1'	-5.08	114.09	121.20
1	1A	1344	C	O5'-P-OP2	-5.06	101.14	105.70
1	2A	943	U	O5'-P-OP2	-5.06	101.15	105.70
5	1F	176	LEU	CA-CB-CG	5.05	126.93	115.30
32	1a	115	G	P-O3'-C3'	5.05	125.76	119.70
32	2a	754	C	C6-N1-C1'	-5.04	114.75	120.80
55	1x	22	G	N3-C4-N9	-5.04	122.98	126.00
32	1a	1002	G	C4-N9-C1'	5.02	133.03	126.50
1	2A	1584	C	O4'-C1'-N1	5.02	112.21	108.20
55	2x	22	G	C8-N9-C1'	5.01	133.51	127.00
1	1A	1694	G	O4'-C1'-N9	-5.01	104.19	108.20

There are no chirality outliers.

There are no planarity outliers.

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

5.3.1 Protein backbone

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	
3	1D	273/276 (99%)	263 (96%)	10 (4%)	0	100	100
3	2D	273/276 (99%)	260 (95%)	12 (4%)	1 (0%)	34	57
4	1E	202/206 (98%)	193 (96%)	8 (4%)	1 (0%)	29	52
4	2E	202/206 (98%)	192 (95%)	9 (4%)	1 (0%)	29	52
5	1F	201/210 (96%)	196 (98%)	4 (2%)	1 (0%)	29	52
5	2F	201/210 (96%)	194 (96%)	5 (2%)	2 (1%)	15	32
6	1G	179/182 (98%)	166 (93%)	12 (7%)	1 (1%)	25	47
6	2G	179/182 (98%)	164 (92%)	12 (7%)	3 (2%)	9	18
7	1H	171/180 (95%)	161 (94%)	9 (5%)	1 (1%)	25	47
7	2H	171/180 (95%)	162 (95%)	8 (5%)	1 (1%)	25	47
8	1I	144/148 (97%)	134 (93%)	9 (6%)	1 (1%)	22	43
8	2I	144/148 (97%)	132 (92%)	11 (8%)	1 (1%)	22	43
9	1N	138/140 (99%)	134 (97%)	4 (3%)	0	100	100
9	2N	138/140 (99%)	132 (96%)	5 (4%)	1 (1%)	22	43
10	1O	120/122 (98%)	113 (94%)	7 (6%)	0	100	100
10	2O	120/122 (98%)	114 (95%)	6 (5%)	0	100	100
11	1P	147/150 (98%)	139 (95%)	7 (5%)	1 (1%)	22	43
11	2P	147/150 (98%)	137 (93%)	8 (5%)	2 (1%)	11	22
12	1Q	139/141 (99%)	133 (96%)	6 (4%)	0	100	100
12	2Q	139/141 (99%)	131 (94%)	8 (6%)	0	100	100
13	1R	116/118 (98%)	113 (97%)	3 (3%)	0	100	100
13	2R	116/118 (98%)	113 (97%)	3 (3%)	0	100	100
14	1S	108/112 (96%)	103 (95%)	5 (5%)	0	100	100
14	2S	108/112 (96%)	103 (95%)	4 (4%)	1 (1%)	17	35
15	1T	129/146 (88%)	122 (95%)	7 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	2T	129/146 (88%)	122 (95%)	7 (5%)	0	100	100
16	1U	114/118 (97%)	114 (100%)	0	0	100	100
16	2U	114/118 (97%)	114 (100%)	0	0	100	100
17	1V	99/101 (98%)	95 (96%)	3 (3%)	1 (1%)	15	32
17	2V	99/101 (98%)	96 (97%)	2 (2%)	1 (1%)	15	32
18	1W	110/113 (97%)	110 (100%)	0	0	100	100
18	2W	110/113 (97%)	110 (100%)	0	0	100	100
19	1X	93/96 (97%)	91 (98%)	2 (2%)	0	100	100
19	2X	93/96 (97%)	89 (96%)	3 (3%)	1 (1%)	14	30
20	1Y	105/110 (96%)	98 (93%)	7 (7%)	0	100	100
20	2Y	105/110 (96%)	100 (95%)	5 (5%)	0	100	100
21	1Z	148/206 (72%)	133 (90%)	14 (10%)	1 (1%)	22	43
21	2Z	156/206 (76%)	137 (88%)	17 (11%)	2 (1%)	12	24
22	10	81/85 (95%)	80 (99%)	1 (1%)	0	100	100
22	20	81/85 (95%)	78 (96%)	2 (2%)	1 (1%)	13	27
23	11	95/98 (97%)	92 (97%)	3 (3%)	0	100	100
23	21	95/98 (97%)	91 (96%)	4 (4%)	0	100	100
24	12	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
24	22	68/72 (94%)	68 (100%)	0	0	100	100
25	13	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
25	23	57/60 (95%)	54 (95%)	2 (4%)	1 (2%)	8	16
26	14	67/71 (94%)	54 (81%)	7 (10%)	6 (9%)	1	0
26	24	67/71 (94%)	53 (79%)	9 (13%)	5 (8%)	1	1
27	15	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
27	25	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
28	16	51/54 (94%)	49 (96%)	2 (4%)	0	100	100
28	26	51/54 (94%)	50 (98%)	1 (2%)	0	100	100
29	17	46/49 (94%)	45 (98%)	1 (2%)	0	100	100
29	27	46/49 (94%)	45 (98%)	0	1 (2%)	6	12
30	18	62/65 (95%)	62 (100%)	0	0	100	100
30	28	62/65 (95%)	62 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
31	19	35/37 (95%)	35 (100%)	0	0	100	100
31	29	35/37 (95%)	35 (100%)	0	0	100	100
33	1b	229/256 (90%)	199 (87%)	24 (10%)	6 (3%)	5	9
33	2b	229/256 (90%)	195 (85%)	26 (11%)	8 (4%)	3	5
34	1c	204/239 (85%)	191 (94%)	12 (6%)	1 (0%)	29	52
34	2c	204/239 (85%)	186 (91%)	17 (8%)	1 (0%)	29	52
35	1d	206/209 (99%)	197 (96%)	8 (4%)	1 (0%)	29	52
35	2d	206/209 (99%)	199 (97%)	6 (3%)	1 (0%)	29	52
36	1e	146/162 (90%)	139 (95%)	5 (3%)	2 (1%)	11	22
36	2e	146/162 (90%)	139 (95%)	5 (3%)	2 (1%)	11	22
37	1f	98/101 (97%)	95 (97%)	3 (3%)	0	100	100
37	2f	98/101 (97%)	95 (97%)	3 (3%)	0	100	100
38	1g	153/156 (98%)	146 (95%)	4 (3%)	3 (2%)	7	14
38	2g	153/156 (98%)	142 (93%)	8 (5%)	3 (2%)	7	14
39	1h	135/138 (98%)	132 (98%)	3 (2%)	0	100	100
39	2h	135/138 (98%)	131 (97%)	3 (2%)	1 (1%)	22	43
40	1i	125/128 (98%)	112 (90%)	13 (10%)	0	100	100
40	2i	125/128 (98%)	111 (89%)	14 (11%)	0	100	100
41	1j	95/105 (90%)	81 (85%)	10 (10%)	4 (4%)	3	3
41	2j	94/105 (90%)	83 (88%)	7 (7%)	4 (4%)	2	3
42	1k	112/129 (87%)	107 (96%)	3 (3%)	2 (2%)	8	16
42	2k	112/129 (87%)	106 (95%)	4 (4%)	2 (2%)	8	16
43	1l	119/132 (90%)	113 (95%)	6 (5%)	0	100	100
43	2l	119/132 (90%)	111 (93%)	8 (7%)	0	100	100
44	1m	121/126 (96%)	110 (91%)	10 (8%)	1 (1%)	19	39
44	2m	120/126 (95%)	111 (92%)	8 (7%)	1 (1%)	19	39
45	1n	58/61 (95%)	55 (95%)	3 (5%)	0	100	100
45	2n	58/61 (95%)	54 (93%)	4 (7%)	0	100	100
46	1o	86/89 (97%)	83 (96%)	3 (4%)	0	100	100
46	2o	86/89 (97%)	82 (95%)	4 (5%)	0	100	100
47	1p	80/88 (91%)	72 (90%)	7 (9%)	1 (1%)	12	24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	2p	80/88 (91%)	71 (89%)	8 (10%)	1 (1%)	12	24
48	1q	97/105 (92%)	95 (98%)	2 (2%)	0	100	100
48	2q	97/105 (92%)	94 (97%)	3 (3%)	0	100	100
49	1r	66/88 (75%)	64 (97%)	2 (3%)	0	100	100
49	2r	66/88 (75%)	64 (97%)	2 (3%)	0	100	100
50	1s	81/93 (87%)	72 (89%)	9 (11%)	0	100	100
50	2s	81/93 (87%)	72 (89%)	6 (7%)	3 (4%)	3	4
51	1t	94/106 (89%)	88 (94%)	2 (2%)	4 (4%)	2	3
51	2t	94/106 (89%)	87 (93%)	3 (3%)	4 (4%)	2	3
52	1u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
52	2u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
All	All	11368/12128 (94%)	10722 (94%)	551 (5%)	95 (1%)	19	39

All (95) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	1F	130	ALA
7	1H	126	PRO
26	14	53	GLU
26	14	61	ARG
26	14	62	ARG
33	1b	17	PHE
38	1g	79	ARG
41	1j	32	ALA
41	1j	78	ASN
5	2F	21	ALA
5	2F	130	ALA
7	2H	126	PRO
8	2I	10	GLU
29	27	46	VAL
33	2b	16	HIS
33	2b	17	PHE
38	2g	79	ARG
51	2t	100	ILE
6	1G	43	LEU
17	1V	79	VAL
21	1Z	159	PRO
26	14	44	THR

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Mol	Chain	Res	Type
26	14	45	GLY
51	1t	47	GLY
51	1t	96	GLY
51	1t	100	ILE
3	2D	3	VAL
6	2G	43	LEU
6	2G	50	ALA
17	2V	79	VAL
26	24	45	GLY
26	24	46	GLN
26	24	48	ARG
26	24	55	ARG
26	24	61	ARG
33	2b	78	GLN
33	2b	125	PRO
38	2g	7	ALA
44	2m	4	ILE
51	2t	47	GLY
4	1E	52	LEU
26	14	57	GLU
33	1b	231	GLU
35	1d	178	VAL
36	1e	86	ALA
41	1j	55	LYS
4	2E	52	LEU
6	2G	51	ARG
19	2X	2	LYS
22	20	4	LYS
33	2b	123	ALA
33	2b	231	GLU
41	2j	78	ASN
42	2k	49	GLY
42	2k	105	VAL
50	2s	29	ARG
8	1I	10	GLU
33	1b	20	GLU
33	1b	78	GLN
33	1b	125	PRO
51	1t	102	GLY
9	2N	2	LYS
14	2S	84	GLN
33	2b	9	GLU

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Mol	Chain	Res	Type
36	2e	37	ARG
38	2g	80	VAL
39	2h	73	ASP
51	2t	95	ALA
33	1b	213	LEU
34	1c	66	VAL
38	1g	80	VAL
11	2P	29	LYS
11	2P	45	LEU
41	2j	55	LYS
47	2p	53	VAL
38	1g	54	THR
41	1j	31	GLY
42	1k	105	VAL
33	2b	213	LEU
34	2c	3	ASN
36	2e	69	VAL
50	2s	81	ARG
42	1k	49	GLY
47	1p	53	VAL
21	2Z	161	VAL
36	1e	69	VAL
25	23	59	VAL
51	2t	102	GLY
44	1m	6	GLY
41	2j	75	ILE
11	1P	122	PRO
21	2Z	146	ILE
35	2d	5	ILE
41	2j	91	PRO
50	2s	9	VAL

5.3.2 Protein sidechains [i](#)

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

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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	1D	215/218 (99%)	205 (95%)	10 (5%)	26	50
3	2D	215/218 (99%)	210 (98%)	5 (2%)	50	75
4	1E	164/166 (99%)	151 (92%)	13 (8%)	12	24
4	2E	164/166 (99%)	152 (93%)	12 (7%)	14	28
5	1F	160/166 (96%)	153 (96%)	7 (4%)	28	53
5	2F	159/166 (96%)	152 (96%)	7 (4%)	28	53
6	1G	143/156 (92%)	140 (98%)	3 (2%)	53	77
6	2G	143/156 (92%)	138 (96%)	5 (4%)	36	62
7	1H	143/148 (97%)	139 (97%)	4 (3%)	43	69
7	2H	143/148 (97%)	140 (98%)	3 (2%)	53	77
8	1I	113/124 (91%)	108 (96%)	5 (4%)	28	53
8	2I	105/124 (85%)	101 (96%)	4 (4%)	33	59
9	1N	118/119 (99%)	114 (97%)	4 (3%)	37	63
9	2N	118/119 (99%)	114 (97%)	4 (3%)	37	63
10	1O	100/100 (100%)	100 (100%)	0	100	100
10	2O	100/100 (100%)	100 (100%)	0	100	100
11	1P	115/116 (99%)	113 (98%)	2 (2%)	60	81
11	2P	115/116 (99%)	113 (98%)	2 (2%)	60	81
12	1Q	111/111 (100%)	110 (99%)	1 (1%)	78	91
12	2Q	111/111 (100%)	106 (96%)	5 (4%)	27	52
13	1R	101/101 (100%)	91 (90%)	10 (10%)	8	15
13	2R	101/101 (100%)	94 (93%)	7 (7%)	15	31
14	1S	86/88 (98%)	85 (99%)	1 (1%)	71	87
14	2S	85/88 (97%)	84 (99%)	1 (1%)	71	87
15	1T	115/127 (91%)	114 (99%)	1 (1%)	78	91
15	2T	113/127 (89%)	111 (98%)	2 (2%)	59	80
16	1U	93/94 (99%)	90 (97%)	3 (3%)	39	65
16	2U	93/94 (99%)	93 (100%)	0	100	100
17	1V	80/82 (98%)	74 (92%)	6 (8%)	13	27
17	2V	80/82 (98%)	75 (94%)	5 (6%)	18	36

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	1W	90/92 (98%)	85 (94%)	5 (6%)	21	42
18	2W	90/92 (98%)	84 (93%)	6 (7%)	16	33
19	1X	77/78 (99%)	76 (99%)	1 (1%)	69	86
19	2X	77/78 (99%)	76 (99%)	1 (1%)	69	86
20	1Y	85/91 (93%)	83 (98%)	2 (2%)	49	74
20	2Y	85/91 (93%)	83 (98%)	2 (2%)	49	74
21	1Z	135/179 (75%)	133 (98%)	2 (2%)	65	83
21	2Z	137/179 (76%)	134 (98%)	3 (2%)	52	76
22	10	65/67 (97%)	63 (97%)	2 (3%)	40	66
22	20	65/67 (97%)	63 (97%)	2 (3%)	40	66
23	11	80/83 (96%)	79 (99%)	1 (1%)	69	86
23	21	80/83 (96%)	77 (96%)	3 (4%)	33	59
24	12	65/67 (97%)	65 (100%)	0	100	100
24	22	65/67 (97%)	65 (100%)	0	100	100
25	13	51/52 (98%)	50 (98%)	1 (2%)	55	78
25	23	50/52 (96%)	49 (98%)	1 (2%)	55	78
26	14	59/63 (94%)	57 (97%)	2 (3%)	37	63
26	24	53/63 (84%)	52 (98%)	1 (2%)	57	79
27	15	50/52 (96%)	46 (92%)	4 (8%)	12	24
27	25	50/52 (96%)	47 (94%)	3 (6%)	19	39
28	16	51/52 (98%)	50 (98%)	1 (2%)	55	78
28	26	50/52 (96%)	49 (98%)	1 (2%)	55	78
29	17	41/42 (98%)	38 (93%)	3 (7%)	14	28
29	27	41/42 (98%)	38 (93%)	3 (7%)	14	28
30	18	54/55 (98%)	51 (94%)	3 (6%)	21	42
30	28	54/55 (98%)	53 (98%)	1 (2%)	57	79
31	19	34/34 (100%)	34 (100%)	0	100	100
31	29	34/34 (100%)	34 (100%)	0	100	100
33	1b	192/220 (87%)	189 (98%)	3 (2%)	62	82
33	2b	187/220 (85%)	181 (97%)	6 (3%)	39	65
34	1c	142/188 (76%)	140 (99%)	2 (1%)	67	85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
34	2c	140/188 (74%)	138 (99%)	2 (1%)	67	85
35	1d	169/181 (93%)	162 (96%)	7 (4%)	30	56
35	2d	173/181 (96%)	169 (98%)	4 (2%)	50	75
36	1e	113/123 (92%)	111 (98%)	2 (2%)	59	80
36	2e	114/123 (93%)	111 (97%)	3 (3%)	46	72
37	1f	84/90 (93%)	84 (100%)	0	100	100
37	2f	85/90 (94%)	85 (100%)	0	100	100
38	1g	119/127 (94%)	118 (99%)	1 (1%)	81	92
38	2g	120/127 (94%)	120 (100%)	0	100	100
39	1h	114/119 (96%)	113 (99%)	1 (1%)	78	91
39	2h	114/119 (96%)	113 (99%)	1 (1%)	78	91
40	1i	90/99 (91%)	88 (98%)	2 (2%)	52	76
40	2i	89/99 (90%)	86 (97%)	3 (3%)	37	63
41	1j	66/92 (72%)	65 (98%)	1 (2%)	65	83
41	2j	69/92 (75%)	67 (97%)	2 (3%)	42	68
42	1k	82/99 (83%)	80 (98%)	2 (2%)	49	74
42	2k	83/99 (84%)	83 (100%)	0	100	100
43	1l	96/108 (89%)	95 (99%)	1 (1%)	76	90
43	2l	96/108 (89%)	95 (99%)	1 (1%)	76	90
44	1m	93/101 (92%)	89 (96%)	4 (4%)	29	54
44	2m	92/101 (91%)	89 (97%)	3 (3%)	38	64
45	1n	49/50 (98%)	46 (94%)	3 (6%)	18	38
45	2n	49/50 (98%)	46 (94%)	3 (6%)	18	38
46	1o	78/80 (98%)	77 (99%)	1 (1%)	69	86
46	2o	78/80 (98%)	76 (97%)	2 (3%)	46	72
47	1p	69/74 (93%)	66 (96%)	3 (4%)	29	54
47	2p	68/74 (92%)	65 (96%)	3 (4%)	28	53
48	1q	94/97 (97%)	93 (99%)	1 (1%)	73	88
48	2q	94/97 (97%)	92 (98%)	2 (2%)	53	77
49	1r	59/77 (77%)	58 (98%)	1 (2%)	60	81
49	2r	59/77 (77%)	58 (98%)	1 (2%)	60	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
50	1s	69/80 (86%)	68 (99%)	1 (1%)	67	85
50	2s	67/80 (84%)	65 (97%)	2 (3%)	41	67
51	1t	70/82 (85%)	70 (100%)	0	100	100
51	2t	70/82 (85%)	70 (100%)	0	100	100
52	1u	18/22 (82%)	18 (100%)	0	100	100
52	2u	18/22 (82%)	18 (100%)	0	100	100
All	All	9301/10064 (92%)	9041 (97%)	260 (3%)	43	69

All (260) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	3	VAL
3	1D	61	LEU
3	1D	71	ASP
3	1D	106	ILE
3	1D	142	VAL
3	1D	157	ARG
3	1D	221	VAL
3	1D	229	VAL
3	1D	242	ARG
3	1D	257	LEU
4	1E	9	VAL
4	1E	12	THR
4	1E	21	VAL
4	1E	24	THR
4	1E	34	VAL
4	1E	73	GLU
4	1E	75	VAL
4	1E	94	GLU
4	1E	116	VAL
4	1E	170	LEU
4	1E	175	VAL
4	1E	181	LEU
4	1E	195	LEU
5	1F	33	LEU
5	1F	53	THR
5	1F	57	VAL
5	1F	106	ARG
5	1F	125	LEU
5	1F	192	LEU

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Mol	Chain	Res	Type
5	1F	201	VAL
6	1G	5	VAL
6	1G	43	LEU
6	1G	159	VAL
7	1H	15	VAL
7	1H	71	LEU
7	1H	84	SER
7	1H	129	THR
8	1I	38	LEU
8	1I	47	LEU
8	1I	92	VAL
8	1I	107	VAL
8	1I	142	VAL
9	1N	28	THR
9	1N	33	LEU
9	1N	34	LEU
9	1N	62	VAL
11	1P	95	VAL
11	1P	112	LEU
12	1Q	75	THR
13	1R	6	SER
13	1R	24	GLN
13	1R	29	LEU
13	1R	36	THR
13	1R	44	LEU
13	1R	54	LEU
13	1R	65	LEU
13	1R	96	ARG
13	1R	100	LEU
13	1R	111	LEU
14	1S	85	VAL
15	1T	28	VAL
16	1U	8	VAL
16	1U	74	LEU
16	1U	95	LEU
17	1V	46	VAL
17	1V	52	VAL
17	1V	62	LEU
17	1V	72	VAL
17	1V	79	VAL
17	1V	82	ARG
18	1W	11	ARG

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Mol	Chain	Res	Type
18	1W	17	VAL
18	1W	19	LEU
18	1W	23	LEU
18	1W	107	LEU
19	1X	35	THR
20	1Y	43	ASN
20	1Y	72	VAL
21	1Z	33	LEU
21	1Z	76	LEU
22	10	14	ARG
22	10	39	ARG
23	11	95	LEU
25	13	54	VAL
26	14	50	VAL
26	14	56	VAL
27	15	6	VAL
27	15	16	ARG
27	15	29	THR
27	15	58	LEU
28	16	48	VAL
29	17	1	MET
29	17	24	THR
29	17	43	THR
30	18	29	LYS
30	18	31	HIS
30	18	32	LEU
33	1b	8	LYS
33	1b	112	VAL
33	1b	122	PHE
34	1c	21	ARG
34	1c	195	VAL
35	1d	5	ILE
35	1d	10	ARG
35	1d	31	CYS
35	1d	49	ARG
35	1d	83	SER
35	1d	135	LEU
35	1d	158	ILE
36	1e	41	VAL
36	1e	149	GLU
38	1g	50	ILE
39	1h	69	ARG

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Mol	Chain	Res	Type
40	1i	27	THR
40	1i	64	THR
41	1j	72	VAL
42	1k	14	VAL
42	1k	31	THR
43	1l	36	VAL
44	1m	19	LEU
44	1m	47	ASP
44	1m	102	ARG
44	1m	109	THR
45	1n	3	ARG
45	1n	18	VAL
45	1n	33	VAL
46	1o	39	LEU
47	1p	2	VAL
47	1p	19	ILE
47	1p	67	THR
48	1q	68	ARG
49	1r	31	LEU
50	1s	5	LEU
3	2D	61	LEU
3	2D	94	LEU
3	2D	106	ILE
3	2D	142	VAL
3	2D	242	ARG
4	2E	9	VAL
4	2E	12	THR
4	2E	21	VAL
4	2E	24	THR
4	2E	47	VAL
4	2E	52	LEU
4	2E	75	VAL
4	2E	116	VAL
4	2E	119	ARG
4	2E	175	VAL
4	2E	181	LEU
4	2E	195	LEU
5	2F	33	LEU
5	2F	57	VAL
5	2F	106	ARG
5	2F	158	THR
5	2F	183	VAL

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Mol	Chain	Res	Type
5	2F	192	LEU
5	2F	201	VAL
6	2G	16	ARG
6	2G	43	LEU
6	2G	79	ASN
6	2G	135	LEU
6	2G	159	VAL
7	2H	71	LEU
7	2H	88	LEU
7	2H	129	THR
8	2I	1	MET
8	2I	38	LEU
8	2I	92	VAL
8	2I	123	LEU
9	2N	28	THR
9	2N	34	LEU
9	2N	48	MET
9	2N	62	VAL
11	2P	95	VAL
11	2P	112	LEU
12	2Q	1	MET
12	2Q	2	LEU
12	2Q	21	THR
12	2Q	75	THR
12	2Q	110	THR
13	2R	24	GLN
13	2R	29	LEU
13	2R	44	LEU
13	2R	54	LEU
13	2R	65	LEU
13	2R	96	ARG
13	2R	111	LEU
14	2S	85	VAL
15	2T	96	ARG
15	2T	108	ARG
17	2V	46	VAL
17	2V	51	VAL
17	2V	62	LEU
17	2V	79	VAL
17	2V	82	ARG
18	2W	11	ARG
18	2W	17	VAL

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Mol	Chain	Res	Type
18	2W	19	LEU
18	2W	67	ASP
18	2W	100	THR
18	2W	107	LEU
19	2X	76	ARG
20	2Y	72	VAL
20	2Y	97	ARG
21	2Z	33	LEU
21	2Z	42	VAL
21	2Z	144	LEU
22	20	14	ARG
22	20	39	ARG
23	21	21	ARG
23	21	30	VAL
23	21	95	LEU
25	23	30	ARG
26	24	50	VAL
27	25	6	VAL
27	25	16	ARG
27	25	29	THR
28	26	48	VAL
29	27	1	MET
29	27	34	ARG
29	27	39	ARG
30	28	32	LEU
33	2b	11	LEU
33	2b	23	ARG
33	2b	47	THR
33	2b	94	ASN
33	2b	111	ARG
33	2b	127	ILE
34	2c	70	VAL
34	2c	124	ILE
35	2d	31	CYS
35	2d	108	LEU
35	2d	135	LEU
35	2d	170	VAL
36	2e	12	LEU
36	2e	13	ILE
36	2e	41	VAL
39	2h	112	LEU
40	2i	64	THR

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Mol	Chain	Res	Type
40	2i	102	LEU
40	2i	108	VAL
41	2j	72	VAL
41	2j	100	THR
43	2l	123	LYS
44	2m	19	LEU
44	2m	47	ASP
44	2m	117	VAL
45	2n	22	THR
45	2n	33	VAL
45	2n	44	LEU
46	2o	39	LEU
46	2o	83	GLU
47	2p	2	VAL
47	2p	21	VAL
47	2p	67	THR
48	2q	35	VAL
48	2q	83	ASP
49	2r	29	PHE
50	2s	12	ASP
50	2s	77	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (85) such sidechains are listed below:

Mol	Chain	Res	Type
4	1E	48	GLN
5	1F	8	GLN
5	1F	69	HIS
6	1G	79	ASN
10	1O	3	GLN
13	1R	31	HIS
16	1U	81	HIS
19	1X	31	HIS
19	1X	82	GLN
20	1Y	6	HIS
21	1Z	73	GLN
23	11	56	GLN
34	1c	6	HIS
34	1c	102	ASN
34	1c	162	GLN
34	1c	176	HIS
35	1d	77	ASN

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Mol	Chain	Res	Type
35	1d	116	GLN
35	1d	125	HIS
36	1e	78	HIS
37	1f	73	ASN
37	1f	100	ASN
38	1g	13	GLN
38	1g	28	ASN
38	1g	86	GLN
39	1h	82	HIS
40	1i	3	GLN
40	1i	23	ASN
40	1i	34	ASN
40	1i	58	HIS
40	1i	124	GLN
43	1l	99	HIS
48	1q	26	GLN
49	1r	63	GLN
50	1s	23	ASN
50	1s	83	HIS
51	1t	16	HIS
51	1t	42	GLN
4	2E	48	GLN
5	2F	40	GLN
5	2F	69	HIS
12	2Q	12	GLN
12	2Q	13	GLN
12	2Q	57	HIS
12	2Q	123	HIS
14	2S	38	GLN
16	2U	81	HIS
16	2U	94	ASN
17	2V	64	HIS
18	2W	60	ASN
19	2X	31	HIS
19	2X	82	GLN
21	2Z	50	GLN
21	2Z	55	HIS
21	2Z	73	GLN
31	29	20	HIS
33	2b	19	HIS
33	2b	40	HIS
33	2b	78	GLN

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Mol	Chain	Res	Type
33	2b	95	GLN
34	2c	6	HIS
34	2c	102	ASN
34	2c	162	GLN
35	2d	77	ASN
35	2d	116	GLN
35	2d	125	HIS
36	2e	73	ASN
36	2e	78	HIS
37	2f	73	ASN
38	2g	28	ASN
40	2i	3	GLN
40	2i	58	HIS
40	2i	89	ASN
40	2i	124	GLN
41	2j	13	HIS
41	2j	21	GLN
42	2k	22	HIS
43	2l	99	HIS
46	2o	28	GLN
49	2r	63	GLN
50	2s	23	ASN
50	2s	47	HIS
50	2s	69	HIS
50	2s	83	HIS
51	2t	16	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2860/2915 (98%)	427 (14%)	39 (1%)
1	2A	2788/2915 (95%)	476 (17%)	27 (0%)
2	1B	120/121 (99%)	9 (7%)	1 (0%)
2	2B	118/121 (97%)	26 (22%)	0
32	1a	1494/1521 (98%)	210 (14%)	0
32	2a	1498/1521 (98%)	233 (15%)	0
53	1v	12/24 (50%)	2 (16%)	0
53	2v	12/24 (50%)	1 (8%)	0
54	1w	71/76 (93%)	24 (33%)	0
54	1y	71/76 (93%)	21 (29%)	0
54	2w	68/76 (89%)	20 (29%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
54	2y	69/76 (90%)	23 (33%)	0
55	1x	75/77 (97%)	11 (14%)	0
55	2x	75/77 (97%)	11 (14%)	0
All	All	9331/9620 (96%)	1494 (16%)	67 (0%)

All (1494) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	12	U
1	1A	13	A
1	1A	27	G
1	1A	28	A
1	1A	34	C
1	1A	45	C
1	1A	70	A
1	1A	73	A
1	1A	74	G
1	1A	83	A
1	1A	94	G
1	1A	116	A
1	1A	117	A
1	1A	118	U
1	1A	123	G
1	1A	137	G
1	1A	185	A
1	1A	186	A
1	1A	188	A
1	1A	194	G
1	1A	203	G
1	1A	205	A
1	1A	211	A
1	1A	217	A
1	1A	218	A
1	1A	222	A
1	1A	237	G
1	1A	271	U
1	1A	272	U
1	1A	273	G
1	1A	275	C
1	1A	289	G
1	1A	303	C
1	1A	335	A

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Mol	Chain	Res	Type
1	1A	353	G
1	1A	354	A
1	1A	370	A
1	1A	376	G
1	1A	387	G
1	1A	388	A
1	1A	389	G
1	1A	407	U
1	1A	413	G
1	1A	423	G
1	1A	432	U
1	1A	438	G
1	1A	455	A
1	1A	470	C
1	1A	474	U
1	1A	480	A
1	1A	482	C
1	1A	483	A
1	1A	507	G
1	1A	530	A
1	1A	533	G
1	1A	534	C
1	1A	555	G
1	1A	556	C
1	1A	557	A
1	1A	558	G
1	1A	569	G
1	1A	573	G
1	1A	586	G
1	1A	596	G
1	1A	598	A
1	1A	609	A
1	1A	626	A
1	1A	627	G
1	1A	630	U
1	1A	639	G
1	1A	641	G
1	1A	642	G
1	1A	652	A
1	1A	662	A
1	1A	671	A
1	1A	692	C

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Mol	Chain	Res	Type
1	1A	693	G
1	1A	697	C
1	1A	716	G
1	1A	733	G
1	1A	764	G
1	1A	777	C
1	1A	783	C
1	1A	811	A
1	1A	822	G
1	1A	823	G
1	1A	829	A
1	1A	831	A
1	1A	832	G
1	1A	839	G
1	1A	852	G
1	1A	859	C
1	1A	866	A
1	1A	874	U
1	1A	875	U
1	1A	906	G
1	1A	913	A
1	1A	924	U
1	1A	926	G
1	1A	927	G
1	1A	931	C
1	1A	932	C
1	1A	933	C
1	1A	934	A
1	1A	935	C
1	1A	936	C
1	1A	937	A
1	1A	938	G
1	1A	941	U
1	1A	942	A
1	1A	943	C
1	1A	953	U
1	1A	956	A
1	1A	976	G
1	1A	977	G
1	1A	990	A
1	1A	991	G
1	1A	1004	A

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Mol	Chain	Res	Type
1	1A	1006	C
1	1A	1008	U
1	1A	1019	G
1	1A	1020	C
1	1A	1029	A
1	1A	1042	A
1	1A	1058	U
1	1A	1059	C
1	1A	1068	G
1	1A	1072	U
1	1A	1073	A
1	1A	1079	U
1	1A	1084	C
1	1A	1087	C
1	1A	1091	A
1	1A	1092	A
1	1A	1093	G
1	1A	1094	A
1	1A	1100	A
1	1A	1101	G
1	1A	1103	A
1	1A	1104	G
1	1A	1112	U
1	1A	1113	A
1	1A	1114	G
1	1A	1117	G
1	1A	1119	A
1	1A	1120	G
1	1A	1121	C
1	1A	1122	C
1	1A	1124	U
1	1A	1125	C
1	1A	1127	U
1	1A	1130	A
1	1A	1132	A
1	1A	1134	A
1	1A	1135	G
1	1A	1136	U
1	1A	1139	G
1	1A	1140	U
1	1A	1142	A
1	1A	1144	A

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Mol	Chain	Res	Type
1	1A	1146	C
1	1A	1147	U
1	1A	1149	A
1	1A	1153	G
1	1A	1154	U
1	1A	1155	C
1	1A	1156	G
1	1A	1157	A
1	1A	1158	G
1	1A	1162	C
1	1A	1176	U
1	1A	1180	C
1	1A	1181	G
1	1A	1216	G
1	1A	1217	G
1	1A	1218	G
1	1A	1219	A
1	1A	1220	U
1	1A	1221	G
1	1A	1222	A
1	1A	1250	U
1	1A	1255	A
1	1A	1256	U
1	1A	1263	C
1	1A	1290	G
1	1A	1299	A
1	1A	1302	G
1	1A	1317	G
1	1A	1318	A
1	1A	1319	U
1	1A	1346	U
1	1A	1347	A
1	1A	1349	G
1	1A	1391	C
1	1A	1398	U
1	1A	1405	A
1	1A	1406	A
1	1A	1411	A
1	1A	1426	G
1	1A	1430	A
1	1A	1431	G
1	1A	1462	G

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Mol	Chain	Res	Type
1	1A	1463	C
1	1A	1466	U
1	1A	1467	G
1	1A	1474	C
1	1A	1491	A
1	1A	1497	G
1	1A	1502	G
1	1A	1514	C
1	1A	1529	G
1	1A	1539	C
1	1A	1540	A
1	1A	1555	C
1	1A	1556	A
1	1A	1569	U
1	1A	1587	U
1	1A	1590	C
1	1A	1605	A
1	1A	1613	A
1	1A	1616	A
1	1A	1625	U
1	1A	1627	A
1	1A	1628	G
1	1A	1631	C
1	1A	1632	A
1	1A	1652	G
1	1A	1654	A
1	1A	1656	A
1	1A	1694	G
1	1A	1695	C
1	1A	1701	A
1	1A	1721	G
1	1A	1743	G
1	1A	1747	A
1	1A	1748	A
1	1A	1767	A
1	1A	1776	G
1	1A	1787	G
1	1A	1793	A
1	1A	1794	G
1	1A	1795	G
1	1A	1804	A
1	1A	1811	A

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Mol	Chain	Res	Type
1	1A	1813	C
1	1A	1822	A
1	1A	1831	C
1	1A	1832	G
1	1A	1847	G
1	1A	1860	A
1	1A	1870	G
1	1A	1878	A
1	1A	1892	G
1	1A	1899	A
1	1A	1900	G
1	1A	1911	A
1	1A	1922	A
1	1A	1928	G
1	1A	1951	G
1	1A	1952	G
1	1A	1959	A
1	1A	1960	A
1	1A	1977	U
1	1A	1985	U
1	1A	1987	C
1	1A	1989	C
1	1A	1992	A
1	1A	1993	A
1	1A	1994	A
1	1A	2014	G
1	1A	2015	U
1	1A	2019	G
1	1A	2042	A
1	1A	2045	G
1	1A	2053	A
1	1A	2055	A
1	1A	2061	C
1	1A	2065	C
1	1A	2077	C
1	1A	2078	G
1	1A	2082	A
1	1A	2083	G
1	1A	2084	A
1	1A	2091	G
1	1A	2132	G
1	1A	2134	G

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Mol	Chain	Res	Type
1	1A	2135	U
1	1A	2136	A
1	1A	2138	G
1	1A	2141	A
1	1A	2143	G
1	1A	2144	U
1	1A	2148	A
1	1A	2149	G
1	1A	2151	C
1	1A	2152	U
1	1A	2153	G
1	1A	2154	U
1	1A	2155	G
1	1A	2156	A
1	1A	2157	A
1	1A	2160	C
1	1A	2162	C
1	1A	2164	C
1	1A	2165	C
1	1A	2166	U
1	1A	2168	C
1	1A	2169	G
1	1A	2170	G
1	1A	2172	U
1	1A	2173	G
1	1A	2177	G
1	1A	2178	G
1	1A	2179	G
1	1A	2180	A
1	1A	2181	G
1	1A	2184	G
1	1A	2187	G
1	1A	2188	G
1	1A	2189	U
1	1A	2190	G
1	1A	2193	A
1	1A	2194	U
1	1A	2195	A
1	1A	2196	C
1	1A	2200	C
1	1A	2203	G
1	1A	2204	G

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Mol	Chain	Res	Type
1	1A	2206	G
1	1A	2214	G
1	1A	2220	A
1	1A	2227	G
1	1A	2228	G
1	1A	2229	A
1	1A	2230	U
1	1A	2233	G
1	1A	2237	A
1	1A	2250	G
1	1A	2251	G
1	1A	2280	A
1	1A	2281	A
1	1A	2292	G
1	1A	2295	C
1	1A	2298	A
1	1A	2299	A
1	1A	2317	A
1	1A	2320	G
1	1A	2332	A
1	1A	2337	G
1	1A	2346	G
1	1A	2348	A
1	1A	2359	C
1	1A	2362	C
1	1A	2373	A
1	1A	2395	G
1	1A	2397	C
1	1A	2408	G
1	1A	2418	U
1	1A	2437	A
1	1A	2441	G
1	1A	2442	A
1	1A	2443	U
1	1A	2447	A
1	1A	2451	A
1	1A	2453	C
1	1A	2460	A
1	1A	2480	G
1	1A	2483	C
1	1A	2486	C
1	1A	2488	A

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Mol	Chain	Res	Type
1	1A	2490	A
1	1A	2510	C
1	1A	2514	G
1	1A	2517	G
1	1A	2518	U
1	1A	2530	A
1	1A	2541	G
1	1A	2547	G
1	1A	2561	G
1	1A	2566	U
1	1A	2578	A
1	1A	2579	G
1	1A	2585	C
1	1A	2594	G
1	1A	2614	A
1	1A	2621	U
1	1A	2623	U
1	1A	2624	C
1	1A	2641	A
1	1A	2642	G
1	1A	2658	C
1	1A	2666	A
1	1A	2691	A
1	1A	2701	U
1	1A	2702	C
1	1A	2703	C
1	1A	2714	U
1	1A	2715	C
1	1A	2725	A
1	1A	2726	A
1	1A	2727	G
1	1A	2739	U
1	1A	2746	A
1	1A	2747	A
1	1A	2757	G
1	1A	2770	A
1	1A	2771	A
1	1A	2777	A
1	1A	2778	A
1	1A	2779	G
1	1A	2791	A
1	1A	2793	G

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Mol	Chain	Res	Type
1	1A	2803	A
1	1A	2804	C
1	1A	2806	G
1	1A	2807	C
1	1A	2813	G
1	1A	2814	C
1	1A	2830	A
1	1A	2831	A
1	1A	2843	G
1	1A	2845	A
1	1A	2882	G
1	1A	2890	C
1	1A	2901	A
1	1A	2903	G
1	1A	2904	U
2	1B	2	C
2	1B	9	G
2	1B	13	A
2	1B	35	U
2	1B	42	C
2	1B	56	G
2	1B	73	A
2	1B	106	G
2	1B	110	G
32	1a	7	G
32	1a	9	G
32	1a	22	G
32	1a	32	A
32	1a	39	G
32	1a	48	C
32	1a	51	A
32	1a	52	G
32	1a	61	G
32	1a	65	U
32	1a	79	G
32	1a	91	C
32	1a	98	G
32	1a	101	A
32	1a	116	A
32	1a	121	C
32	1a	131	C
32	1a	163	C

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Mol	Chain	Res	Type
32	1a	174	C
32	1a	180	U
32	1a	182	U
32	1a	189(H)	G
32	1a	195	A
32	1a	197	A
32	1a	201	C
32	1a	202	U
32	1a	203	U
32	1a	204	U
32	1a	216	G
32	1a	247	G
32	1a	251	G
32	1a	258	G
32	1a	266	G
32	1a	267	C
32	1a	289	G
32	1a	301	G
32	1a	321	A
32	1a	328	C
32	1a	332	G
32	1a	352	C
32	1a	353	A
32	1a	354	G
32	1a	367	U
32	1a	372	C
32	1a	373	A
32	1a	384	G
32	1a	397	A
32	1a	398	C
32	1a	406	G
32	1a	412	A
32	1a	413	G
32	1a	421	U
32	1a	424	G
32	1a	429	U
32	1a	439	A
32	1a	442	C
32	1a	452	A
32	1a	461	A
32	1a	470	C
32	1a	477	A

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Mol	Chain	Res	Type
32	1a	485	G
32	1a	496	A
32	1a	498	U
32	1a	505	G
32	1a	509	A
32	1a	510	A
32	1a	511	C
32	1a	518	C
32	1a	524	G
32	1a	527	7MG
32	1a	531	U
32	1a	532	A
32	1a	533	A
32	1a	547	A
32	1a	559	A
32	1a	561	U
32	1a	568	G
32	1a	572	A
32	1a	573	A
32	1a	576	G
32	1a	577	G
32	1a	596	C
32	1a	630	G
32	1a	653	A
32	1a	665	A
32	1a	671	G
32	1a	687	A
32	1a	688	G
32	1a	695	A
32	1a	723	U
32	1a	731	G
32	1a	734	G
32	1a	749	C
32	1a	755	G
32	1a	777	A
32	1a	793	U
32	1a	794	A
32	1a	815	A
32	1a	816	A
32	1a	817	C
32	1a	821	G
32	1a	828	A

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Mol	Chain	Res	Type
32	1a	840	C
32	1a	841	U
32	1a	851	G
32	1a	853	G
32	1a	859	A
32	1a	870	U
32	1a	902	G
32	1a	914	A
32	1a	926	G
32	1a	927	G
32	1a	931	C
32	1a	932	C
32	1a	934	C
32	1a	960	U
32	1a	961	U
32	1a	967	5MC
32	1a	968	A
32	1a	969	A
32	1a	971	G
32	1a	972	C
32	1a	974	A
32	1a	975	A
32	1a	976	G
32	1a	977	A
32	1a	982	U
32	1a	992	U
32	1a	993	G
32	1a	997	U
32	1a	1000	U
32	1a	1001	A
32	1a	1001(A)	G
32	1a	1003	G
32	1a	1005	A
32	1a	1006	C
32	1a	1008	C
32	1a	1011	G
32	1a	1020	U
32	1a	1022	G
32	1a	1024	G
32	1a	1025	U
32	1a	1026	G
32	1a	1029	C

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Mol	Chain	Res	Type
32	1a	1030(A)	G
32	1a	1030(C)	G
32	1a	1031	G
32	1a	1039	C
32	1a	1044	A
32	1a	1054	C
32	1a	1068	G
32	1a	1081	G
32	1a	1094	G
32	1a	1095	U
32	1a	1101	A
32	1a	1108	G
32	1a	1123	A
32	1a	1125	U
32	1a	1131	G
32	1a	1137	C
32	1a	1139	G
32	1a	1140	C
32	1a	1146	A
32	1a	1152	A
32	1a	1159	U
32	1a	1172	C
32	1a	1184	G
32	1a	1196	U
32	1a	1197	G
32	1a	1202	G
32	1a	1212	U
32	1a	1213	A
32	1a	1227	A
32	1a	1236	A
32	1a	1238	A
32	1a	1256	A
32	1a	1257	U
32	1a	1258	G
32	1a	1260	C
32	1a	1270	C
32	1a	1275	A
32	1a	1278	U
32	1a	1279	A
32	1a	1280	A
32	1a	1286	A
32	1a	1287	A

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Mol	Chain	Res	Type
32	1a	1299	A
32	1a	1300	G
32	1a	1301	U
32	1a	1302	U
32	1a	1320	C
32	1a	1338	G
32	1a	1346	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1370	G
32	1a	1419	G
32	1a	1442	G
32	1a	1442(A)	G
32	1a	1446	U
32	1a	1447	A
32	1a	1456	G
32	1a	1492	A
32	1a	1504	G
32	1a	1506	U
32	1a	1507	A
32	1a	1517	G
32	1a	1529	G
32	1a	1530	G
53	1v	13	A
53	1v	14	A
54	1w	2	C
54	1w	3	C
54	1w	6	G
54	1w	7	A
54	1w	8	4SU
54	1w	19	G
54	1w	20	U
54	1w	21	A
54	1w	23	A
54	1w	24	G
54	1w	45	U
54	1w	46	7MG
54	1w	47	U
54	1w	48	C
54	1w	50	U
54	1w	62	C

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Mol	Chain	Res	Type
54	1w	63	G
54	1w	64	A
54	1w	67	C
54	1w	68	C
54	1w	70	G
54	1w	71	G
54	1w	73	A
54	1w	74	C
55	1x	6	G
55	1x	9	G
55	1x	14	A
55	1x	18	G
55	1x	19	G
55	1x	21	A
55	1x	47	U
55	1x	61	C
55	1x	64	G
55	1x	69	C
55	1x	76	A
54	1y	5	G
54	1y	6	G
54	1y	8	4SU
54	1y	13	C
54	1y	19	G
54	1y	20	U
54	1y	21	A
54	1y	35	A
54	1y	36	A
54	1y	44	G
54	1y	45	U
54	1y	46	7MG
54	1y	47	U
54	1y	48	C
54	1y	54	5MU
54	1y	56	C
54	1y	59	U
54	1y	61	C
54	1y	64	A
54	1y	65	G
54	1y	70	G
1	2A	12	U
1	2A	15	G

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Mol	Chain	Res	Type
1	2A	27	G
1	2A	28	A
1	2A	34	C
1	2A	35	G
1	2A	45	C
1	2A	71	A
1	2A	74	A
1	2A	75	G
1	2A	78	A
1	2A	83	G
1	2A	84	A
1	2A	90	U
1	2A	95	G
1	2A	100	G
1	2A	102	G
1	2A	118	A
1	2A	119	A
1	2A	120	U
1	2A	154(A)	C
1	2A	157	U
1	2A	172	C
1	2A	181	A
1	2A	196	A
1	2A	199	A
1	2A	205	G
1	2A	215	G
1	2A	216	A
1	2A	221	A
1	2A	222	A
1	2A	228	A
1	2A	229	A
1	2A	233	A
1	2A	248	G
1	2A	249	C
1	2A	266	G
1	2A	267	C
1	2A	271(K)	U
1	2A	271(L)	U
1	2A	271(M)	G
1	2A	271(N)	U
1	2A	272(B)	G
1	2A	272(J)	C

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Mol	Chain	Res	Type
1	2A	277	C
1	2A	278	A
1	2A	294	A
1	2A	311	A
1	2A	317	G
1	2A	323	G
1	2A	324	A
1	2A	329	G
1	2A	330	A
1	2A	338	G
1	2A	352	G
1	2A	362	U
1	2A	363	G
1	2A	363(B)	G
1	2A	386	G
1	2A	391	G
1	2A	396	G
1	2A	402	A
1	2A	406	G
1	2A	411	G
1	2A	412	A
1	2A	421	U
1	2A	422	A
1	2A	441	U
1	2A	444	C
1	2A	455	C
1	2A	457	A
1	2A	481	G
1	2A	504	U
1	2A	505	A
1	2A	508	G
1	2A	509	C
1	2A	528	A
1	2A	529	A
1	2A	530	G
1	2A	531	C
1	2A	532	A
1	2A	533	G
1	2A	551	G
1	2A	563	G
1	2A	568	U
1	2A	573	G

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Mol	Chain	Res	Type
1	2A	575	A
1	2A	586	A
1	2A	588	U
1	2A	599	G
1	2A	603	A
1	2A	604	G
1	2A	607	U
1	2A	614(B)	G
1	2A	615	G
1	2A	616	G
1	2A	627	A
1	2A	637	A
1	2A	645	C
1	2A	652(B)	A
1	2A	652(C)	G
1	2A	656	G
1	2A	668	G
1	2A	669	G
1	2A	686	G
1	2A	699	A
1	2A	717	G
1	2A	726	G
1	2A	730	C
1	2A	752	A
1	2A	753	C
1	2A	764	A
1	2A	771	G
1	2A	775	G
1	2A	776	G
1	2A	782	A
1	2A	783	A
1	2A	784	A
1	2A	785	G
1	2A	790	C
1	2A	792	G
1	2A	805	G
1	2A	812	C
1	2A	819	A
1	2A	827	U
1	2A	828	U
1	2A	857	C
1	2A	859	G

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Mol	Chain	Res	Type
1	2A	866	A
1	2A	869	G
1	2A	870	A
1	2A	874	G
1	2A	875	G
1	2A	877	U
1	2A	878	A
1	2A	879	G
1	2A	880	G
1	2A	884	C
1	2A	886	C
1	2A	887	A
1	2A	888	C
1	2A	889	C
1	2A	893	C
1	2A	894	C
1	2A	896	A
1	2A	900	A
1	2A	901	A
1	2A	910	A
1	2A	917	A
1	2A	932	G
1	2A	938	G
1	2A	941	A
1	2A	944	G
1	2A	945	A
1	2A	946	G
1	2A	953	A
1	2A	958	U
1	2A	959	A
1	2A	961	C
1	2A	974	G
1	2A	975	C
1	2A	983	A
1	2A	988	A
1	2A	996	A
1	2A	1012	U
1	2A	1013	C
1	2A	1017	G
1	2A	1022	G
1	2A	1025	G
1	2A	1026	U

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Mol	Chain	Res	Type
1	2A	1033	U
1	2A	1038	C
1	2A	1039	G
1	2A	1041	C
1	2A	1043	C
1	2A	1116	C
1	2A	1128	A
1	2A	1129	A
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G
1	2A	1143	A
1	2A	1144	G
1	2A	1171	G
1	2A	1206	G
1	2A	1210	A
1	2A	1211	U
1	2A	1220	A
1	2A	1221	C
1	2A	1236	G
1	2A	1247	A
1	2A	1248	G
1	2A	1253	A
1	2A	1256	G
1	2A	1271	G
1	2A	1272	A
1	2A	1273	U
1	2A	1287	A
1	2A	1300	U
1	2A	1301	A
1	2A	1303	G
1	2A	1309	G
1	2A	1314	C
1	2A	1345	C
1	2A	1352	U
1	2A	1359	A
1	2A	1360	A
1	2A	1365	A
1	2A	1368	G
1	2A	1370	C
1	2A	1373	A

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Mol	Chain	Res	Type
1	2A	1379	A
1	2A	1384	A
1	2A	1385	G
1	2A	1386	C
1	2A	1411	C
1	2A	1416	G
1	2A	1417	C
1	2A	1420	U
1	2A	1421	G
1	2A	1426	G
1	2A	1427	A
1	2A	1428	C
1	2A	1437	C
1	2A	1445	A
1	2A	1449	A
1	2A	1450	G
1	2A	1455	G
1	2A	1460	A
1	2A	1467	C
1	2A	1471	A
1	2A	1482	G
1	2A	1490	A
1	2A	1493	C
1	2A	1497	U
1	2A	1508	A
1	2A	1509	C
1	2A	1509(A)	A
1	2A	1531	C
1	2A	1532	C
1	2A	1543	C
1	2A	1544	A
1	2A	1547	C
1	2A	1558	A
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1582	C
1	2A	1584	C
1	2A	1586	A
1	2A	1608	A
1	2A	1609	A
1	2A	1610	A

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Mol	Chain	Res	Type
1	2A	1616	A
1	2A	1640	C
1	2A	1648	C
1	2A	1654	A
1	2A	1674	G
1	2A	1696	G
1	2A	1700	A
1	2A	1703	G
1	2A	1722	A
1	2A	1739	U
1	2A	1756	G
1	2A	1762	A
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1780	A
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1812	A
1	2A	1816	G
1	2A	1829	A
1	2A	1835	G
1	2A	1847	A
1	2A	1848	A
1	2A	1857	G
1	2A	1860	G
1	2A	1877	A
1	2A	1878	G
1	2A	1900	A
1	2A	1906	G
1	2A	1913	A
1	2A	1914	C
1	2A	1929	G
1	2A	1930	G
1	2A	1931	U
1	2A	1936	A
1	2A	1938	A
1	2A	1955	U
1	2A	1963	U
1	2A	1965	C
1	2A	1967	C

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Mol	Chain	Res	Type
1	2A	1970	A
1	2A	1971	A
1	2A	1972	A
1	2A	1992	G
1	2A	1993	U
1	2A	1996	C
1	2A	1997	G
1	2A	2020	A
1	2A	2023	G
1	2A	2031	A
1	2A	2033	A
1	2A	2043	C
1	2A	2055	C
1	2A	2056	G
1	2A	2060	A
1	2A	2061	G
1	2A	2062	A
1	2A	2069	G
1	2A	2096	U
1	2A	2099	U
1	2A	2105	C
1	2A	2107	C
1	2A	2108	C
1	2A	2110	G
1	2A	2111	C
1	2A	2112	G
1	2A	2116	G
1	2A	2119	A
1	2A	2120	G
1	2A	2122	U
1	2A	2124	G
1	2A	2126	A
1	2A	2127	G
1	2A	2129	C
1	2A	2131	G
1	2A	2132	U
1	2A	2134	A
1	2A	2135	A
1	2A	2136	C
1	2A	2137	C
1	2A	2138	C
1	2A	2140	C

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Mol	Chain	Res	Type
1	2A	2141	G
1	2A	2142	C
1	2A	2146	C
1	2A	2150	U
1	2A	2151	G
1	2A	2153	G
1	2A	2154	G
1	2A	2155	G
1	2A	2156	G
1	2A	2157	G
1	2A	2158	A
1	2A	2161	C
1	2A	2162	G
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2169	A
1	2A	2172	U
1	2A	2178	C
1	2A	2185	C
1	2A	2189	U
1	2A	2192	G
1	2A	2198	A
1	2A	2206	G
1	2A	2207	G
1	2A	2208	A
1	2A	2218	U
1	2A	2221	G
1	2A	2225	A
1	2A	2238	G
1	2A	2239	G
1	2A	2275	C
1	2A	2278	A
1	2A	2280	G
1	2A	2283	C
1	2A	2287	A
1	2A	2304	G
1	2A	2305	A
1	2A	2308	G
1	2A	2312	U
1	2A	2320	A
1	2A	2321	G

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Mol	Chain	Res	Type
1	2A	2322	A
1	2A	2325	G
1	2A	2334	G
1	2A	2336	A
1	2A	2341	G
1	2A	2346	A
1	2A	2347	C
1	2A	2350	C
1	2A	2372	G
1	2A	2376	A
1	2A	2377	A
1	2A	2383	G
1	2A	2385	C
1	2A	2396	G
1	2A	2402	C
1	2A	2403	C
1	2A	2406	U
1	2A	2410	G
1	2A	2425	A
1	2A	2429	G
1	2A	2430	A
1	2A	2435	A
1	2A	2439	A
1	2A	2441	C
1	2A	2445	G
1	2A	2448	A
1	2A	2468	G
1	2A	2469	A
1	2A	2476	A
1	2A	2478	A
1	2A	2487	G
1	2A	2490	G
1	2A	2491	U
1	2A	2494	G
1	2A	2502	G
1	2A	2505	G
1	2A	2506	U
1	2A	2512	C
1	2A	2513	G
1	2A	2518	A
1	2A	2520	C
1	2A	2525	G

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Mol	Chain	Res	Type
1	2A	2529	G
1	2A	2554	U
1	2A	2555	U
1	2A	2566	A
1	2A	2567	G
1	2A	2569	G
1	2A	2572	A
1	2A	2573	C
1	2A	2578	G
1	2A	2585	U
1	2A	2602	A
1	2A	2609	U
1	2A	2611	U
1	2A	2612	C
1	2A	2629	A
1	2A	2630	G
1	2A	2634	G
1	2A	2654	A
1	2A	2664	G
1	2A	2679	A
1	2A	2689	U
1	2A	2690	C
1	2A	2691	C
1	2A	2702	U
1	2A	2703	C
1	2A	2712(A)	A
1	2A	2713	A
1	2A	2714	G
1	2A	2726	U
1	2A	2733	A
1	2A	2757	A
1	2A	2761	G
1	2A	2764	A
1	2A	2765	A
1	2A	2766	G
1	2A	2778	A
1	2A	2780	G
1	2A	2793	G
1	2A	2794	C
1	2A	2802	G
1	2A	2803	C
1	2A	2807	G

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Mol	Chain	Res	Type
1	2A	2818	G
1	2A	2820	A
1	2A	2821	A
1	2A	2833	G
1	2A	2835	A
1	2A	2839	G
1	2A	2872	G
1	2A	2879	C
1	2A	2880	C
1	2A	2894	G
1	2A	2895	U
1	2A	2897	U
2	2B	2	C
2	2B	3	C
2	2B	5	C
2	2B	8	U
2	2B	9	G
2	2B	12	C
2	2B	13	A
2	2B	19	G
2	2B	20	C
2	2B	24	G
2	2B	32	C
2	2B	34	U
2	2B	42	C
2	2B	45	A
2	2B	53	A
2	2B	56	G
2	2B	66	A
2	2B	67	G
2	2B	72	G
2	2B	73	A
2	2B	74	U
2	2B	75	G
2	2B	85	G
2	2B	108	U
2	2B	110	G
2	2B	120	A
32	2a	7	G
32	2a	9	G
32	2a	22	G
32	2a	32	A

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Mol	Chain	Res	Type
32	2a	39	G
32	2a	47	C
32	2a	48	C
32	2a	51	A
32	2a	66	G
32	2a	73	G
32	2a	88	A
32	2a	89	C
32	2a	98	G
32	2a	101	A
32	2a	116	A
32	2a	121	C
32	2a	131	C
32	2a	163	C
32	2a	174	C
32	2a	182	U
32	2a	195	A
32	2a	197	A
32	2a	202	U
32	2a	203	U
32	2a	204	U
32	2a	216	G
32	2a	247	G
32	2a	251	G
32	2a	258	G
32	2a	266	G
32	2a	267	C
32	2a	289	G
32	2a	301	G
32	2a	321	A
32	2a	328	C
32	2a	332	G
32	2a	352	C
32	2a	353	A
32	2a	354	G
32	2a	367	U
32	2a	372	C
32	2a	373	A
32	2a	384	G
32	2a	397	A
32	2a	398	C
32	2a	406	G

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Mol	Chain	Res	Type
32	2a	412	A
32	2a	421	U
32	2a	424	G
32	2a	429	U
32	2a	430	A
32	2a	439	A
32	2a	442	C
32	2a	452	A
32	2a	461	A
32	2a	470	C
32	2a	477	A
32	2a	485	G
32	2a	496	A
32	2a	498	U
32	2a	505	G
32	2a	509	A
32	2a	510	A
32	2a	511	C
32	2a	518	C
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	547	A
32	2a	559	A
32	2a	560	U
32	2a	561	U
32	2a	564	C
32	2a	568	G
32	2a	572	A
32	2a	573	A
32	2a	574	A
32	2a	576	G
32	2a	577	G
32	2a	596	C
32	2a	630	G
32	2a	653	A
32	2a	665	A
32	2a	671	G
32	2a	687	A
32	2a	688	G
32	2a	723	U
32	2a	731	G

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Mol	Chain	Res	Type
32	2a	749	C
32	2a	755	G
32	2a	774	G
32	2a	777	A
32	2a	790	A
32	2a	792	A
32	2a	793	U
32	2a	794	A
32	2a	817	C
32	2a	821	G
32	2a	828	A
32	2a	834	C
32	2a	840	C
32	2a	841	U
32	2a	851	G
32	2a	853	G
32	2a	859	A
32	2a	902	G
32	2a	914	A
32	2a	926	G
32	2a	927	G
32	2a	931	C
32	2a	932	C
32	2a	934	C
32	2a	935	A
32	2a	960	U
32	2a	961	U
32	2a	968	A
32	2a	969	A
32	2a	971	G
32	2a	972	C
32	2a	974	A
32	2a	975	A
32	2a	976	G
32	2a	977	A
32	2a	982	U
32	2a	992	U
32	2a	993	G
32	2a	997	U
32	2a	999	C
32	2a	1000	U
32	2a	1001(A)	G

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Mol	Chain	Res	Type
32	2a	1002	G
32	2a	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1011	G
32	2a	1020	U
32	2a	1021	G
32	2a	1022	G
32	2a	1025	U
32	2a	1026	G
32	2a	1027	C
32	2a	1029	C
32	2a	1030(A)	G
32	2a	1030(D)	A
32	2a	1031	G
32	2a	1033	G
32	2a	1035	A
32	2a	1036	G
32	2a	1038	C
32	2a	1039	C
32	2a	1040	U
32	2a	1044	A
32	2a	1054	C
32	2a	1065	U
32	2a	1066	C
32	2a	1068	G
32	2a	1077	G
32	2a	1081	G
32	2a	1086	U
32	2a	1094	G
32	2a	1095	U
32	2a	1101	A
32	2a	1108	G
32	2a	1117	G
32	2a	1122	U
32	2a	1125	U
32	2a	1129	C
32	2a	1131	G
32	2a	1133	G
32	2a	1134	G
32	2a	1136	U
32	2a	1137	C

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Mol	Chain	Res	Type
32	2a	1138	G
32	2a	1139	G
32	2a	1140	C
32	2a	1146	A
32	2a	1152	A
32	2a	1157	A
32	2a	1159	U
32	2a	1172	C
32	2a	1174	G
32	2a	1182	G
32	2a	1184	G
32	2a	1196	U
32	2a	1197	G
32	2a	1202	G
32	2a	1211	U
32	2a	1212	U
32	2a	1213	A
32	2a	1220	G
32	2a	1227	A
32	2a	1236	A
32	2a	1238	A
32	2a	1241	G
32	2a	1246	C
32	2a	1256	A
32	2a	1257	U
32	2a	1258	G
32	2a	1260	C
32	2a	1270	C
32	2a	1275	A
32	2a	1278	U
32	2a	1279	A
32	2a	1280	A
32	2a	1287	A
32	2a	1299	A
32	2a	1300	G
32	2a	1301	U
32	2a	1302	U
32	2a	1305	G
32	2a	1338	G
32	2a	1346	A
32	2a	1347	G
32	2a	1353	G

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Mol	Chain	Res	Type
32	2a	1363	C
32	2a	1370	G
32	2a	1378	C
32	2a	1419	G
32	2a	1442	G
32	2a	1442(A)	G
32	2a	1446	U
32	2a	1447	A
32	2a	1452	C
32	2a	1492	A
32	2a	1494	G
32	2a	1503	A
32	2a	1504	G
32	2a	1506	U
32	2a	1517	G
32	2a	1520	G
32	2a	1529	G
32	2a	1530	G
32	2a	1532	U
53	2v	13	A
54	2w	3	C
54	2w	4	C
54	2w	5	G
54	2w	8	4SU
54	2w	13	C
54	2w	19	G
54	2w	22	G
54	2w	25	C
54	2w	46	7MG
54	2w	48	C
54	2w	59	U
54	2w	62	C
54	2w	64	A
54	2w	65	G
54	2w	66	U
54	2w	67	C
54	2w	68	C
54	2w	69	G
54	2w	70	G
54	2w	74	C
55	2x	9	G
55	2x	13	C

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Mol	Chain	Res	Type
55	2x	18	G
55	2x	20	U
55	2x	21	A
55	2x	46	G
55	2x	47	U
55	2x	48	C
55	2x	67	C
55	2x	68	C
55	2x	76	A
54	2y	15	G
54	2y	19	G
54	2y	23	A
54	2y	30	G
54	2y	34	G
54	2y	45	U
54	2y	46	7MG
54	2y	48	C
54	2y	49	C
54	2y	52	G
54	2y	53	G
54	2y	55	PSU
54	2y	56	C
54	2y	57	G
54	2y	58	A
54	2y	59	U
54	2y	60	U
54	2y	61	C
54	2y	65	G
54	2y	67	C
54	2y	69	G
54	2y	70	G
54	2y	73	A

All (67) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1A	27	G
1	1A	115	G
1	1A	185	A
1	1A	271	U
1	1A	302	A
1	1A	509	A

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Mol	Chain	Res	Type
1	1A	572	A
1	1A	716	G
1	1A	793	A
1	1A	811	A
1	1A	821	A
1	1A	913	A
1	1A	941	U
1	1A	1019	G
1	1A	1067	A
1	1A	1093	G
1	1A	1136	U
1	1A	1143	U
1	1A	1201	A
1	1A	1219	A
1	1A	1220	U
1	1A	1221	G
1	1A	1255	A
1	1A	1425	A
1	1A	1466	U
1	1A	1554	A
1	1A	1652	G
1	1A	1654	A
1	1A	1700	G
1	1A	2014	G
1	1A	2156	A
1	1A	2203	G
1	1A	2205	C
1	1A	2233	G
1	1A	2418	U
1	1A	2442	A
1	1A	2641	A
1	1A	2701	U
1	1A	2769	U
2	1B	1	U
1	2A	27	G
1	2A	196	A
1	2A	228	A
1	2A	266	G
1	2A	271(M)	G
1	2A	277	C
1	2A	425	G
1	2A	528	A

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Mol	Chain	Res	Type
1	2A	752	A
1	2A	774	A
1	2A	827	U
1	2A	856	C
1	2A	900	A
1	2A	1210	A
1	2A	1420	U
1	2A	1442	G
1	2A	1530	C
1	2A	1606	G
1	2A	1653	G
1	2A	1913	A
1	2A	1992	G
1	2A	2119	A
1	2A	2126	A
1	2A	2221	G
1	2A	2406	U
1	2A	2689	U
1	2A	2756	U

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

84 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
1	2MU	2A	2552	56,1	19,22,24	1.25	2 (10%)	26,31,36	1.80	6 (23%)
1	OMG	1A	2263	56,55,1	18,26,27	0.96	1 (5%)	19,38,41	1.09	2 (10%)
43	0TD	2l	92	43	7,9,10	4.82	1 (14%)	6,11,13	3.39	3 (50%)
1	PSU	2A	1911	1	18,21,22	1.35	2 (11%)	22,30,33	1.83	3 (13%)
54	5MU	1w	54	54	19,22,23	1.44	6 (31%)	28,32,35	1.95	8 (28%)
32	5MC	1a	967	32	18,22,23	0.98	2 (11%)	26,32,35	1.17	3 (11%)
1	2MA	2A	2503	56,1	17,25,26	1.08	1 (5%)	17,37,40	0.95	2 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
54	PSU	1y	32	54	18,21,22	1.33	2 (11%)	22,30,33	1.81	3 (13%)
32	UR3	1a	1498	32	19,22,23	1.00	1 (5%)	26,32,35	1.52	3 (11%)
32	5MC	2a	1400	32	18,22,23	0.98	2 (11%)	26,32,35	1.23	3 (11%)
54	PSU	2y	39	54	18,21,22	1.29	2 (11%)	22,30,33	1.88	3 (13%)
54	MIA	2y	37	54	18,24,32	1.15	2 (11%)	18,35,47	1.29	2 (11%)
54	4SU	2y	8	54	18,21,22	1.69	4 (22%)	26,30,33	2.47	6 (23%)
32	7MG	1a	527	32,56	22,26,27	1.43	4 (18%)	29,39,42	2.38	7 (24%)
54	7MG	2w	46	54	22,26,27	1.38	2 (9%)	29,39,42	2.42	8 (27%)
1	2MU	1A	2564	56,1	19,22,24	1.22	3 (15%)	26,31,36	1.83	5 (19%)
55	5MC	1x	32	55	18,22,23	1.01	2 (11%)	26,32,35	1.21	3 (11%)
32	5MC	1a	1404	32	18,22,23	1.02	2 (11%)	26,32,35	1.22	3 (11%)
1	PSU	2A	2605	1	18,21,22	1.29	2 (11%)	22,30,33	2.02	4 (18%)
32	5MC	1a	1407	32	18,22,23	0.89	2 (11%)	26,32,35	1.09	3 (11%)
32	PSU	2a	516	32	18,21,22	1.28	2 (11%)	22,30,33	1.83	4 (18%)
32	5MC	2a	1404	32	18,22,23	1.01	2 (11%)	26,32,35	1.25	3 (11%)
54	PSU	2w	55	54	18,21,22	1.39	2 (11%)	22,30,33	1.86	3 (13%)
54	4SU	1y	8	54	18,21,22	1.68	5 (27%)	26,30,33	1.85	5 (19%)
1	PSU	1A	1933	1	18,21,22	1.37	2 (11%)	22,30,33	1.88	3 (13%)
1	PSU	2A	1917	56,1	18,21,22	1.33	2 (11%)	22,30,33	1.77	3 (13%)
1	PSU	1A	1939	1	18,21,22	1.38	3 (16%)	22,30,33	1.99	3 (13%)
55	4SU	2x	8	56,55	18,21,22	1.93	5 (27%)	26,30,33	1.57	5 (19%)
32	2MG	2a	1207	32,56	18,26,27	0.91	1 (5%)	16,38,41	1.08	2 (12%)
32	PSU	1a	516	32	18,21,22	1.33	2 (11%)	22,30,33	1.85	5 (22%)
54	PSU	2y	32	54	18,21,22	1.34	2 (11%)	22,30,33	1.73	3 (13%)
32	MA6	1a	1518	32	19,26,27	0.94	1 (5%)	18,38,41	1.75	6 (33%)
54	7MG	2y	46	54	22,26,27	1.38	3 (13%)	29,39,42	2.68	7 (24%)
32	5MC	2a	967	32	18,22,23	0.94	2 (11%)	26,32,35	1.17	4 (15%)
54	4SU	2w	8	54	18,21,22	1.56	4 (22%)	26,30,33	2.45	6 (23%)
54	7MG	1y	46	54	22,26,27	1.36	4 (18%)	29,39,42	2.58	6 (20%)
32	7MG	2a	527	32,56	22,26,27	1.36	4 (18%)	29,39,42	2.47	7 (24%)
54	PSU	1w	32	54	18,21,22	1.32	2 (11%)	22,30,33	1.84	3 (13%)
54	5MU	1y	54	54	19,22,23	1.50	6 (31%)	28,32,35	1.85	6 (21%)
32	M2G	1a	966	32	20,27,28	1.47	3 (15%)	22,40,43	1.00	3 (13%)
55	5MC	2x	32	55	18,22,23	0.98	2 (11%)	26,32,35	1.23	4 (15%)
54	PSU	1y	55	54	18,21,22	1.36	2 (11%)	22,30,33	1.88	3 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MU	1A	1961	56,1	19,22,23	1.41	5 (26%)	28,32,35	2.31	6 (21%)
54	7MG	1w	46	54	22,26,27	1.39	4 (18%)	29,39,42	2.51	7 (24%)
1	2MA	1A	2515	56,1	17,25,26	1.01	1 (5%)	17,37,40	0.98	2 (11%)
43	0TD	1l	92	43	7,9,10	4.78	1 (14%)	6,11,13	3.66	3 (50%)
32	5MC	2a	1407	32,56	18,22,23	0.98	2 (11%)	26,32,35	1.12	2 (7%)
55	PSU	1x	55	56,55	18,21,22	1.32	2 (11%)	22,30,33	1.84	3 (13%)
32	MA6	1a	1519	32	19,26,27	1.02	1 (5%)	18,38,41	1.57	4 (22%)
55	PSU	2x	55	55	18,21,22	1.34	2 (11%)	22,30,33	1.90	3 (13%)
54	5MU	2y	54	54	19,22,23	1.47	4 (21%)	28,32,35	2.05	8 (28%)
54	MIA	1y	37	54	18,24,32	1.12	2 (11%)	18,35,47	1.27	2 (11%)
1	5MC	1A	1964	56,1	18,22,23	0.93	2 (11%)	26,32,35	1.22	2 (7%)
54	PSU	2w	39	54	18,21,22	1.35	2 (11%)	22,30,33	1.73	3 (13%)
54	PSU	2y	55	54	18,21,22	1.34	2 (11%)	22,30,33	1.85	5 (22%)
32	2MG	1a	1207	32	18,26,27	0.94	1 (5%)	16,38,41	1.11	2 (12%)
1	5MC	2A	1962	1	18,22,23	1.00	2 (11%)	26,32,35	1.20	2 (7%)
54	5MU	2w	54	54	19,22,23	1.37	5 (26%)	28,32,35	2.00	7 (25%)
32	4OC	2a	1402	32	20,23,24	0.77	0	26,32,35	1.04	2 (7%)
1	5MU	2A	1915	1	19,22,23	1.44	5 (26%)	28,32,35	2.14	6 (21%)
55	4SU	1x	8	55	18,21,22	2.03	5 (27%)	26,30,33	1.56	6 (23%)
55	5MU	1x	54	56,55	19,22,23	1.43	5 (26%)	28,32,35	1.90	7 (25%)
54	PSU	2w	32	54	18,21,22	1.33	2 (11%)	22,30,33	1.80	3 (13%)
1	5MC	1A	1984	1	18,22,23	0.91	2 (11%)	26,32,35	1.11	1 (3%)
54	MIA	1w	37	54	24,31,32	2.17	3 (12%)	26,44,47	2.64	9 (34%)
1	5MU	1A	1937	1	19,22,23	1.39	5 (26%)	28,32,35	2.16	7 (25%)
1	PSU	1A	2617	56,1	18,21,22	1.34	3 (16%)	22,30,33	2.09	4 (18%)
55	5MU	2x	54	55	19,22,23	1.38	4 (21%)	28,32,35	2.04	6 (21%)
32	M2G	2a	966	32	20,27,28	1.38	3 (15%)	22,40,43	1.01	2 (9%)
32	UR3	2a	1498	32	19,22,23	1.05	1 (5%)	26,32,35	1.43	2 (7%)
32	5MC	1a	1400	32	18,22,23	0.96	2 (11%)	26,32,35	1.16	2 (7%)
54	4SU	1w	8	54	18,21,22	1.68	4 (22%)	26,30,33	1.92	5 (19%)
54	MIA	2w	37	54	20,27,32	1.75	3 (15%)	22,39,47	1.82	7 (31%)
54	PSU	1w	55	54	18,21,22	1.39	2 (11%)	22,30,33	1.89	3 (13%)
1	5MC	2A	1942	1	18,22,23	0.96	2 (11%)	26,32,35	1.16	2 (7%)
32	MA6	2a	1518	32	19,26,27	1.02	1 (5%)	18,38,41	1.62	4 (22%)
32	MA6	2a	1519	32	19,26,27	1.03	2 (10%)	18,38,41	1.66	3 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MU	2A	1939	56,1	19,22,23	1.43	6 (31%)	28,32,35	2.25	6 (21%)
54	PSU	1w	39	54	18,21,22	1.29	2 (11%)	22,30,33	1.88	3 (13%)
1	4OC	1A	1942	1	19,22,24	0.83	0	26,31,35	0.88	0
54	PSU	1y	39	54	18,21,22	1.37	2 (11%)	22,30,33	1.77	3 (13%)
1	OMG	2A	2251	56,55,1	18,26,27	0.97	1 (5%)	19,38,41	1.19	3 (15%)
32	4OC	1a	1402	32	20,23,24	0.71	0	26,32,35	0.97	1 (3%)
1	4OC	2A	1920	1	19,22,24	0.78	0	26,31,35	0.82	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	2MU	2A	2552	56,1	-	0/9/27/28	0/2/2/2
1	OMG	1A	2263	56,55,1	-	0/5/27/28	0/3/3/3
43	0TD	2l	92	43	-	3/7/12/14	-
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	2/7/25/26	0/2/2/2
1	2MA	2A	2503	56,1	-	1/3/25/26	0/3/3/3
54	PSU	1y	32	54	-	0/7/25/26	0/2/2/2
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
32	5MC	2a	1400	32	-	4/7/25/26	0/2/2/2
54	PSU	2y	39	54	-	0/7/25/26	0/2/2/2
54	MIA	2y	37	54	-	3/3/25/34	0/3/3/3
54	4SU	2y	8	54	-	0/7/25/26	0/2/2/2
32	7MG	1a	527	32,56	-	3/7/37/38	0/3/3/3
54	7MG	2w	46	54	-	4/7/37/38	0/3/3/3
1	2MU	1A	2564	56,1	-	0/9/27/28	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
54	4SU	1y	8	54	-	5/7/25/26	0/2/2/2
1	PSU	1A	1933	1	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	56,1	-	2/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	PSU	1A	1939	1	-	0/7/25/26	0/2/2/2
55	4SU	2x	8	56,55	-	0/7/25/26	0/2/2/2
32	2MG	2a	1207	32,56	-	0/5/27/28	0/3/3/3
32	PSU	1a	516	32	-	0/7/25/26	0/2/2/2
54	PSU	2y	32	54	-	0/7/25/26	0/2/2/2
32	MA6	1a	1518	32	-	1/7/29/30	0/3/3/3
54	7MG	2y	46	54	-	3/7/37/38	0/3/3/3
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
54	7MG	1y	46	54	-	2/7/37/38	0/3/3/3
32	7MG	2a	527	32,56	-	2/7/37/38	0/3/3/3
54	PSU	1w	32	54	-	0/7/25/26	0/2/2/2
54	5MU	1y	54	54	-	3/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	0/7/29/30	0/3/3/3
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
54	PSU	1y	55	54	-	0/7/25/26	0/2/2/2
1	5MU	1A	1961	56,1	-	0/7/25/26	0/2/2/2
54	7MG	1w	46	54	-	1/7/37/38	0/3/3/3
1	2MA	1A	2515	56,1	-	2/3/25/26	0/3/3/3
43	0TD	1l	92	43	-	2/7/12/14	-
32	5MC	2a	1407	32,56	-	0/7/25/26	0/2/2/2
55	PSU	1x	55	56,55	-	0/7/25/26	0/2/2/2
32	MA6	1a	1519	32	-	4/7/29/30	0/3/3/3
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
54	5MU	2y	54	54	-	3/7/25/26	0/2/2/2
54	MIA	1y	37	54	-	0/3/25/34	0/3/3/3
1	5MC	1A	1964	56,1	-	0/7/25/26	0/2/2/2
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
54	PSU	2y	55	54	-	3/7/25/26	0/2/2/2
32	2MG	1a	1207	32	-	1/5/27/28	0/3/3/3
1	5MC	2A	1962	1	-	2/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
32	4OC	2a	1402	32	-	2/9/29/30	0/2/2/2
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
55	5MU	1x	54	56,55	-	0/7/25/26	0/2/2/2
54	PSU	2w	32	54	-	0/7/25/26	0/2/2/2
1	5MC	1A	1984	1	-	0/7/25/26	0/2/2/2
54	MIA	1w	37	54	-	1/11/33/34	0/3/3/3
1	5MU	1A	1937	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	PSU	1A	2617	56,1	-	0/7/25/26	0/2/2/2
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/7/29/30	0/3/3/3
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
32	5MC	1a	1400	32	-	0/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
54	MIA	2w	37	54	-	2/7/29/34	0/3/3/3
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
32	MA6	2a	1518	32	-	2/7/29/30	0/3/3/3
32	MA6	2a	1519	32	-	5/7/29/30	0/3/3/3
1	5MU	2A	1939	56,1	-	0/7/25/26	0/2/2/2
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
1	4OC	1A	1942	1	-	3/9/27/30	0/2/2/2
54	PSU	1y	39	54	-	0/7/25/26	0/2/2/2
1	OMG	2A	2251	56,55,1	-	0/5/27/28	0/3/3/3
32	4OC	1a	1402	32	-	2/9/29/30	0/2/2/2
1	4OC	2A	1920	1	-	0/9/27/30	0/2/2/2

All (209) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.48	1.69	1.82
43	1l	92	0TD	CB-SB	-12.31	1.69	1.82
54	1w	37	MIA	C13-C14	7.13	1.52	1.32
54	1w	37	MIA	C2-S10	-6.48	1.70	1.75
54	2w	37	MIA	C2-S10	-6.25	1.70	1.75
32	1a	966	M2G	C2-N3	4.72	1.36	1.30
54	2y	8	4SU	C4-S4	-4.54	1.59	1.68
55	1x	8	4SU	C4-N3	-4.54	1.32	1.37
32	2a	966	M2G	C2-N3	4.39	1.36	1.30
54	1w	8	4SU	C4-S4	-4.20	1.60	1.68
55	1x	8	4SU	C4-S4	-4.19	1.60	1.68
54	2w	8	4SU	C4-S4	-4.18	1.60	1.68
55	2x	8	4SU	C4-N3	-4.17	1.33	1.37
55	2x	8	4SU	C4-S4	-4.13	1.60	1.68
54	1y	8	4SU	C4-S4	-4.11	1.60	1.68
54	2w	46	7MG	C4-N9	-3.94	1.33	1.37
54	1w	55	PSU	C6-C5	3.75	1.39	1.35
54	1y	39	PSU	C6-C5	3.74	1.39	1.35
54	2w	55	PSU	C6-C5	3.73	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	1a	527	7MG	C4-N9	-3.72	1.33	1.37
54	2y	32	PSU	C6-C5	3.71	1.39	1.35
54	1y	32	PSU	C6-C5	3.68	1.39	1.35
54	2w	39	PSU	C6-C5	3.63	1.39	1.35
55	2x	55	PSU	C6-C5	3.62	1.39	1.35
54	1y	55	PSU	C6-C5	3.60	1.39	1.35
55	1x	8	4SU	C2-N3	-3.52	1.31	1.38
54	2w	32	PSU	C6-C5	3.49	1.39	1.35
1	1A	1933	PSU	C6-C5	3.33	1.39	1.35
54	2y	39	PSU	C6-C5	3.33	1.39	1.35
55	1x	55	PSU	C6-C5	3.33	1.39	1.35
1	2A	1917	PSU	C6-C5	3.29	1.39	1.35
32	2a	516	PSU	C6-C5	3.27	1.39	1.35
1	1A	1939	PSU	C6-C5	3.22	1.39	1.35
54	1y	46	7MG	C5-C4	3.20	1.48	1.38
32	2a	527	7MG	C4-N9	-3.20	1.34	1.37
54	1w	32	PSU	C6-C5	3.20	1.39	1.35
54	2y	46	7MG	C5-C4	3.19	1.48	1.38
1	2A	1911	PSU	C6-C5	3.18	1.39	1.35
55	1x	8	4SU	C5-C4	-3.18	1.38	1.42
54	1w	46	7MG	C5-C4	3.18	1.48	1.38
54	2y	54	5MU	C2-N1	3.17	1.43	1.38
54	1w	46	7MG	C4-N9	-3.14	1.34	1.37
54	1w	39	PSU	C6-C5	3.07	1.38	1.35
54	1y	8	4SU	C4-N3	-3.05	1.34	1.37
55	2x	8	4SU	C2-N3	-3.05	1.32	1.38
32	2a	1404	5MC	C6-C5	3.05	1.39	1.34
1	2A	2605	PSU	C6-C5	3.04	1.38	1.35
32	2a	527	7MG	C5-C4	2.99	1.47	1.38
32	1a	527	7MG	C5-C4	2.98	1.47	1.38
54	2w	46	7MG	C5-C4	2.97	1.47	1.38
32	1a	966	M2G	C2-N2	2.95	1.40	1.35
32	1a	1404	5MC	C6-C5	2.94	1.39	1.34
32	1a	516	PSU	C6-C5	2.94	1.38	1.35
32	2a	1400	5MC	C6-C5	2.93	1.39	1.34
54	2y	55	PSU	C6-C5	2.93	1.38	1.35
1	1A	1961	5MU	C6-C5	2.93	1.39	1.34
55	2x	54	5MU	C6-C5	2.92	1.39	1.34
1	2A	1915	5MU	C6-C5	2.90	1.39	1.34
54	1y	54	5MU	C6-C5	2.89	1.39	1.34
54	1w	8	4SU	C4-N3	-2.87	1.34	1.37
55	2x	8	4SU	C5-C4	-2.86	1.38	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	1961	5MU	C4-N3	-2.86	1.33	1.38
55	1x	32	5MC	C6-C5	2.85	1.39	1.34
54	2y	54	5MU	C6-C5	2.84	1.39	1.34
1	2A	1939	5MU	C6-C5	2.82	1.39	1.34
54	2y	37	MIA	C5-C4	2.81	1.48	1.40
32	1a	1400	5MC	C6-C5	2.79	1.39	1.34
55	1x	54	5MU	C6-C5	2.78	1.39	1.34
1	1A	2617	PSU	C6-C5	2.77	1.38	1.35
1	1A	2617	PSU	C4-N3	-2.76	1.33	1.38
54	2y	55	PSU	C4-N3	-2.76	1.33	1.38
54	2w	54	5MU	C6-C5	2.76	1.39	1.34
32	1a	967	5MC	C6-C5	2.75	1.39	1.34
55	2x	32	5MC	C6-C5	2.74	1.39	1.34
54	2y	37	MIA	C2-N3	2.73	1.36	1.32
32	2a	1518	MA6	C5-C4	2.72	1.48	1.40
54	2y	8	4SU	C5-C4	-2.72	1.39	1.42
54	1w	54	5MU	C4-C5	2.71	1.49	1.44
54	1y	37	MIA	C5-C4	2.70	1.48	1.40
1	2A	1911	PSU	C4-N3	-2.69	1.33	1.38
1	1A	1937	5MU	C4-N3	-2.67	1.33	1.38
32	1a	516	PSU	C4-N3	-2.66	1.33	1.38
32	1a	1407	5MC	C6-C5	2.66	1.39	1.34
1	1A	2564	2MU	C4-N3	-2.66	1.33	1.38
1	2A	1939	5MU	C4-N3	-2.65	1.33	1.38
1	1A	1933	PSU	C4-N3	-2.65	1.33	1.38
54	1y	46	7MG	C8-N9	2.65	1.47	1.46
1	2A	1915	5MU	C4-C5	2.64	1.49	1.44
54	1y	54	5MU	C4-N3	-2.63	1.34	1.38
32	2a	1407	5MC	C6-C5	2.63	1.38	1.34
54	1w	32	PSU	C4-N3	-2.63	1.34	1.38
1	1A	1964	5MC	C6-C5	2.63	1.38	1.34
54	1w	54	5MU	C6-C5	2.62	1.38	1.34
1	2A	1915	5MU	C2-N1	2.62	1.42	1.38
1	2A	1962	5MC	C6-C5	2.61	1.38	1.34
54	2w	37	MIA	C5-C4	2.61	1.47	1.40
54	1y	54	5MU	C2-N1	2.59	1.42	1.38
54	1y	37	MIA	C2-N3	2.58	1.36	1.32
54	2y	46	7MG	C8-N9	2.58	1.47	1.46
1	2A	1962	5MC	C6-N1	-2.57	1.33	1.38
54	1y	39	PSU	C4-N3	-2.56	1.34	1.38
54	1w	8	4SU	C5-C4	-2.56	1.39	1.42
1	2A	1942	5MC	C6-C5	2.55	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	1984	5MC	C6-C5	2.55	1.38	1.34
1	2A	2503	2MA	C2-N3	2.54	1.36	1.31
54	2w	55	PSU	C4-N3	-2.54	1.34	1.38
32	1a	1519	MA6	C5-C4	2.54	1.47	1.40
32	2a	1519	MA6	C5-C4	2.53	1.47	1.40
54	2y	8	4SU	C2-N1	2.53	1.42	1.38
55	1x	54	5MU	C4-N3	-2.53	1.34	1.38
54	2w	39	PSU	C4-N3	-2.52	1.34	1.38
1	1A	2263	OMG	C6-N1	-2.52	1.34	1.37
1	1A	1939	PSU	C4-N3	-2.51	1.34	1.38
1	2A	2552	2MU	C4-N3	-2.50	1.34	1.38
54	1w	54	5MU	C4-N3	-2.50	1.34	1.38
55	2x	54	5MU	C4-N3	-2.49	1.34	1.38
54	2w	54	5MU	C4-C5	2.49	1.48	1.44
1	2A	2605	PSU	C4-N3	-2.48	1.34	1.38
54	2y	8	4SU	C4-N3	-2.48	1.35	1.37
54	2y	54	5MU	C4-C5	2.47	1.48	1.44
54	1y	54	5MU	C4-C5	2.46	1.48	1.44
1	1A	1937	5MU	C6-C5	2.46	1.38	1.34
54	1w	37	MIA	C5-C4	2.46	1.47	1.40
54	1w	39	PSU	C4-N3	-2.45	1.34	1.38
1	2A	1942	5MC	C6-N1	-2.45	1.33	1.38
54	1y	55	PSU	C4-N3	-2.44	1.34	1.38
1	2A	1917	PSU	C4-N3	-2.44	1.34	1.38
55	1x	32	5MC	C6-N1	-2.43	1.33	1.38
32	1a	527	7MG	C8-N9	2.43	1.47	1.46
32	2a	1207	2MG	C6-N1	-2.43	1.34	1.37
32	2a	967	5MC	C6-C5	2.43	1.38	1.34
32	2a	966	M2G	C2-N2	2.42	1.39	1.35
1	2A	2251	OMG	C6-N1	-2.41	1.34	1.37
32	1a	1404	5MC	C6-N1	-2.40	1.34	1.38
54	2w	8	4SU	C2-N1	2.39	1.42	1.38
1	1A	1961	5MU	C6-N1	-2.39	1.34	1.38
54	2y	39	PSU	C4-N3	-2.39	1.34	1.38
54	1y	8	4SU	C2-N1	2.38	1.42	1.38
54	2y	46	7MG	C6-N1	-2.38	1.34	1.38
1	1A	1984	5MC	C6-N1	-2.38	1.34	1.38
32	1a	1207	2MG	C6-N1	-2.37	1.34	1.37
54	2y	32	PSU	C4-N3	-2.37	1.34	1.38
54	2w	32	PSU	C4-N3	-2.36	1.34	1.38
1	1A	1937	5MU	C6-N1	-2.36	1.34	1.38
54	1y	8	4SU	C5-C4	-2.36	1.39	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	2x	55	PSU	C4-N3	-2.36	1.34	1.38
1	1A	2564	2MU	C2-N3	-2.36	1.33	1.38
54	1w	55	PSU	C4-N3	-2.35	1.34	1.38
54	2y	54	5MU	C4-N3	-2.35	1.34	1.38
32	2a	1407	5MC	C6-N1	-2.35	1.34	1.38
54	2w	8	4SU	C4-N3	-2.34	1.35	1.37
32	1a	1518	MA6	C5-C4	2.33	1.47	1.40
55	2x	54	5MU	C4-C5	2.33	1.48	1.44
55	1x	55	PSU	C4-N3	-2.32	1.34	1.38
32	2a	516	PSU	C4-N3	-2.31	1.34	1.38
55	1x	54	5MU	C4-C5	2.31	1.48	1.44
1	2A	1939	5MU	C2-N1	2.31	1.42	1.38
32	2a	966	M2G	C6-N1	-2.30	1.34	1.37
54	1y	32	PSU	C4-N3	-2.29	1.34	1.38
1	2A	2552	2MU	C5-C4	2.29	1.48	1.43
1	1A	1961	5MU	C2-N3	-2.28	1.33	1.38
1	1A	2515	2MA	C2-N3	2.28	1.36	1.31
1	1A	1937	5MU	C4-C5	2.28	1.48	1.44
32	1a	967	5MC	C6-N1	-2.28	1.34	1.38
32	2a	527	7MG	C6-N1	-2.28	1.34	1.38
32	1a	527	7MG	C6-N1	-2.28	1.34	1.38
1	2A	1939	5MU	C6-N1	-2.27	1.34	1.38
54	1w	54	5MU	C2-N1	2.26	1.42	1.38
1	2A	1915	5MU	C4-N3	-2.26	1.34	1.38
1	1A	1937	5MU	C2-N1	2.26	1.42	1.38
32	2a	1404	5MC	C6-N1	-2.26	1.34	1.38
54	1y	54	5MU	C2-N3	-2.25	1.34	1.38
55	1x	54	5MU	C2-N1	2.24	1.42	1.38
1	1A	1964	5MC	C6-N1	-2.23	1.34	1.38
54	2w	54	5MU	C4-N3	-2.23	1.34	1.38
32	2a	1498	UR3	C2-N1	2.23	1.41	1.38
54	2w	8	4SU	C5-C4	-2.23	1.39	1.42
32	2a	1400	5MC	C6-N1	-2.22	1.34	1.38
54	1w	8	4SU	C2-N1	2.22	1.42	1.38
54	1w	46	7MG	C6-N1	-2.20	1.34	1.38
32	2a	967	5MC	C6-N1	-2.19	1.34	1.38
32	1a	1400	5MC	C6-N1	-2.19	1.34	1.38
1	2A	1939	5MU	C2-N3	-2.19	1.34	1.38
32	1a	966	M2G	C6-N1	-2.19	1.34	1.37
54	2w	37	MIA	C6-N1	2.19	1.35	1.32
1	2A	1939	5MU	C4-C5	2.17	1.48	1.44
32	2a	527	7MG	C8-N9	2.15	1.47	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2w	54	5MU	C2-N1	2.15	1.41	1.38
54	1y	46	7MG	C6-N1	-2.15	1.34	1.38
54	1w	46	7MG	C8-N9	2.14	1.47	1.46
32	1a	1498	UR3	C2-N1	2.12	1.41	1.38
55	1x	54	5MU	C6-N1	-2.12	1.34	1.38
54	1w	54	5MU	C6-N1	-2.11	1.34	1.38
54	1y	54	5MU	C6-N1	-2.10	1.34	1.38
54	2w	54	5MU	C6-N1	-2.09	1.34	1.38
55	1x	8	4SU	O2-C2	2.09	1.26	1.23
1	1A	1961	5MU	C4-C5	2.09	1.48	1.44
54	1y	46	7MG	C4-N9	-2.07	1.35	1.37
55	2x	54	5MU	C2-N1	2.07	1.41	1.38
55	2x	8	4SU	C2-N1	2.07	1.41	1.38
1	2A	1915	5MU	C6-N1	-2.06	1.34	1.38
55	2x	32	5MC	C6-N1	-2.05	1.34	1.38
1	1A	2564	2MU	C5-C4	2.03	1.48	1.43
32	1a	1407	5MC	C6-N1	-2.02	1.34	1.38
54	1y	8	4SU	C6-C5	2.01	1.39	1.35
1	1A	2617	PSU	C2-N3	-2.01	1.34	1.37
54	1w	54	5MU	C2-N3	-2.01	1.34	1.38
1	1A	1939	PSU	C2-N3	-2.01	1.34	1.37
32	2a	1519	MA6	C6-N1	2.00	1.36	1.33

All (332) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2y	46	7MG	N9-C4-N3	9.66	139.91	125.47
54	1y	46	7MG	N9-C4-N3	9.30	139.38	125.47
54	1w	46	7MG	N9-C4-N3	9.00	138.93	125.47
32	2a	527	7MG	N9-C4-N3	8.49	138.16	125.47
54	1w	37	MIA	C12-C13-C14	-8.42	110.76	127.14
32	1a	527	7MG	N9-C4-N3	8.12	137.61	125.47
43	1l	92	0TD	CSB-SB-CB	-8.02	87.92	102.44
54	2w	46	7MG	N9-C4-N3	8.00	137.44	125.47
54	2w	8	4SU	C4-N3-C2	-7.76	119.81	127.34
54	2y	8	4SU	C4-N3-C2	-7.15	120.40	127.34
43	2l	92	0TD	CSB-SB-CB	-7.00	89.77	102.44
1	1A	2617	PSU	N1-C2-N3	6.52	122.51	115.13
54	2y	8	4SU	C5-C4-N3	6.45	120.67	114.69
1	2A	2605	PSU	N1-C2-N3	6.11	122.05	115.13
1	1A	1939	PSU	N1-C2-N3	6.10	122.05	115.13
54	1y	55	PSU	N1-C2-N3	6.07	122.01	115.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	2x	55	PSU	N1-C2-N3	6.05	121.98	115.13
32	1a	1498	UR3	C4-N3-C2	-6.02	118.90	124.56
1	1A	1933	PSU	N1-C2-N3	5.94	121.86	115.13
54	2w	8	4SU	C5-C4-N3	5.93	120.19	114.69
1	1A	1961	5MU	C4-N3-C2	-5.87	119.75	127.35
54	1w	32	PSU	N1-C2-N3	5.85	121.76	115.13
1	2A	1911	PSU	N1-C2-N3	5.85	121.76	115.13
55	1x	55	PSU	N1-C2-N3	5.85	121.75	115.13
54	2w	55	PSU	N1-C2-N3	5.80	121.71	115.13
54	1w	39	PSU	N1-C2-N3	5.77	121.67	115.13
32	2a	1498	UR3	C4-N3-C2	-5.77	119.13	124.56
54	2y	39	PSU	N1-C2-N3	5.75	121.65	115.13
1	2A	1939	5MU	C4-N3-C2	-5.72	119.94	127.35
54	2w	46	7MG	N9-C8-N7	-5.72	95.20	103.38
54	1w	55	PSU	N1-C2-N3	5.72	121.61	115.13
54	1y	39	PSU	N1-C2-N3	5.65	121.53	115.13
54	2w	32	PSU	N1-C2-N3	5.64	121.52	115.13
54	2y	46	7MG	C5-C4-N3	-5.63	117.40	128.13
54	1y	32	PSU	N1-C2-N3	5.62	121.49	115.13
54	2y	55	PSU	N1-C2-N3	5.60	121.48	115.13
32	1a	516	PSU	N1-C2-N3	5.58	121.45	115.13
54	1w	8	4SU	C4-N3-C2	-5.55	121.95	127.34
1	2A	1917	PSU	N1-C2-N3	5.54	121.41	115.13
54	2w	39	PSU	N1-C2-N3	5.52	121.39	115.13
32	2a	516	PSU	N1-C2-N3	5.49	121.35	115.13
1	1A	2564	2MU	N3-C2-N1	5.44	122.12	114.89
54	2y	32	PSU	N1-C2-N3	5.44	121.29	115.13
32	1a	527	7MG	N9-C8-N7	-5.41	95.64	103.38
1	2A	1915	5MU	C4-N3-C2	-5.40	120.36	127.35
1	1A	1937	5MU	C4-N3-C2	-5.39	120.37	127.35
1	1A	1961	5MU	C5-C4-N3	5.39	119.91	115.31
54	1y	46	7MG	C5-C4-N3	-5.37	117.90	128.13
54	1w	8	4SU	C5-C4-N3	5.33	119.63	114.69
54	1w	46	7MG	C5-C4-N3	-5.33	117.98	128.13
32	2a	527	7MG	N9-C8-N7	-5.32	95.77	103.38
54	2y	8	4SU	C5-C4-S4	-5.27	117.67	124.47
1	2A	1939	5MU	C5-C4-N3	5.27	119.81	115.31
1	1A	1961	5MU	N3-C2-N1	5.14	121.72	114.89
32	2a	527	7MG	C5-C4-N3	-5.13	118.34	128.13
1	1A	1937	5MU	C5-C4-N3	5.12	119.68	115.31
54	1y	8	4SU	C4-N3-C2	-5.11	122.38	127.34
54	1y	46	7MG	N9-C8-N7	-5.09	96.10	103.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	2x	54	5MU	C4-N3-C2	-5.06	120.80	127.35
55	2x	54	5MU	N3-C2-N1	5.05	121.60	114.89
54	1w	46	7MG	N9-C8-N7	-5.03	96.19	103.38
54	2y	46	7MG	N9-C8-N7	-4.98	96.25	103.38
1	2A	1915	5MU	N3-C2-N1	4.95	121.47	114.89
1	2A	1939	5MU	N3-C2-N1	4.94	121.45	114.89
54	2w	54	5MU	C4-N3-C2	-4.92	120.98	127.35
32	1a	527	7MG	C5-C4-N3	-4.87	118.85	128.13
1	1A	1961	5MU	C5-C6-N1	-4.83	118.37	123.34
54	1y	8	4SU	C5-C4-N3	4.80	119.14	114.69
1	2A	2552	2MU	N3-C2-N1	4.78	121.24	114.89
54	1w	54	5MU	C4-N3-C2	-4.78	121.17	127.35
54	2y	54	5MU	C4-N3-C2	-4.74	121.22	127.35
1	1A	1937	5MU	N3-C2-N1	4.74	121.18	114.89
54	2y	46	7MG	C2-N3-C4	4.73	120.73	112.30
54	1w	54	5MU	N3-C2-N1	4.69	121.12	114.89
1	2A	1939	5MU	C5-C6-N1	-4.67	118.53	123.34
1	1A	1961	5MU	O4-C4-C5	-4.64	119.53	124.90
1	1A	2617	PSU	C4-N3-C2	-4.61	119.69	126.34
54	2w	8	4SU	N3-C2-N1	4.59	120.98	114.89
54	2y	54	5MU	C5-C4-N3	4.57	119.22	115.31
1	1A	2564	2MU	C4-N3-C2	-4.55	120.58	126.58
55	1x	54	5MU	C4-N3-C2	-4.54	121.47	127.35
1	2A	1915	5MU	C5-C4-N3	4.54	119.19	115.31
1	2A	2605	PSU	C4-N3-C2	-4.47	119.90	126.34
54	1w	37	MIA	C2-N3-C4	4.46	121.48	115.32
54	1y	46	7MG	C2-N3-C4	4.46	120.25	112.30
54	2w	54	5MU	N3-C2-N1	4.46	120.81	114.89
54	2w	46	7MG	C5-C4-N3	-4.44	119.66	128.13
54	1y	54	5MU	N3-C2-N1	4.44	120.79	114.89
54	2w	54	5MU	C5-C4-N3	4.44	119.10	115.31
1	2A	1939	5MU	O4-C4-C5	-4.43	119.77	124.90
54	2w	37	MIA	C2-N3-C4	4.40	121.38	115.32
54	2y	54	5MU	N3-C2-N1	4.37	120.69	114.89
1	2A	1915	5MU	O4-C4-C5	-4.33	119.88	124.90
54	1y	54	5MU	C4-N3-C2	-4.33	121.75	127.35
55	1x	54	5MU	C5-C4-N3	4.30	118.98	115.31
54	2w	8	4SU	C5-C4-S4	-4.29	118.94	124.47
55	2x	54	5MU	C5-C4-N3	4.26	118.95	115.31
32	2a	1400	5MC	C5-C6-N1	-4.25	118.97	123.34
55	1x	54	5MU	N3-C2-N1	4.24	120.51	114.89
54	1w	37	MIA	C15-C14-C13	-4.23	110.43	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	1937	5MU	O4-C4-C5	-4.19	120.05	124.90
32	2a	527	7MG	C2-N3-C4	4.18	119.74	112.30
54	1w	54	5MU	C5-C4-N3	4.15	118.85	115.31
54	2y	54	5MU	O4-C4-C5	-4.14	120.10	124.90
1	1A	1939	PSU	C4-N3-C2	-4.14	120.37	126.34
1	2A	2552	2MU	C4-N3-C2	-4.12	121.15	126.58
32	2a	1404	5MC	C5-C6-N1	-4.11	119.11	123.34
32	1a	516	PSU	C4-N3-C2	-3.98	120.60	126.34
55	1x	8	4SU	C6-C5-C4	-3.97	116.51	119.95
1	1A	1939	PSU	O2-C2-N1	-3.97	118.42	122.79
54	2y	55	PSU	C4-N3-C2	-3.96	120.63	126.34
54	2w	54	5MU	O4-C4-C5	-3.96	120.31	124.90
55	2x	54	5MU	O4-C4-C5	-3.95	120.32	124.90
54	2y	39	PSU	C4-N3-C2	-3.94	120.66	126.34
54	1w	37	MIA	C16-C14-C13	-3.93	111.28	122.65
54	1w	46	7MG	C2-N3-C4	3.93	119.30	112.30
32	2a	516	PSU	C4-N3-C2	-3.92	120.69	126.34
54	1y	54	5MU	C5-C4-N3	3.90	118.64	115.31
54	1w	39	PSU	C4-N3-C2	-3.90	120.71	126.34
55	2x	8	4SU	C5-C4-N3	3.89	118.30	114.69
32	1a	1400	5MC	C5-C6-N1	-3.88	119.34	123.34
54	2w	46	7MG	C2-N3-C4	3.85	119.17	112.30
54	2y	8	4SU	N3-C2-N1	3.85	120.00	114.89
55	2x	55	PSU	C4-N3-C2	-3.85	120.80	126.34
1	1A	1933	PSU	C4-N3-C2	-3.84	120.80	126.34
55	1x	54	5MU	O4-C4-C5	-3.84	120.45	124.90
54	1w	32	PSU	C4-N3-C2	-3.83	120.81	126.34
1	2A	1915	5MU	C5-C6-N1	-3.83	119.40	123.34
1	1A	1964	5MC	C5-C6-N1	-3.81	119.42	123.34
32	2a	1518	MA6	C4-C5-N7	-3.80	105.44	109.40
55	2x	8	4SU	C1'-N1-C2	3.78	124.42	117.57
55	1x	55	PSU	C4-N3-C2	-3.78	120.89	126.34
54	1w	55	PSU	O2-C2-N1	-3.78	118.63	122.79
32	1a	527	7MG	C2-N3-C4	3.77	119.02	112.30
54	2w	55	PSU	C4-N3-C2	-3.77	120.91	126.34
32	2a	1519	MA6	C4-C5-N7	-3.72	105.52	109.40
1	2A	1942	5MC	C5-C6-N1	-3.71	119.53	123.34
1	2A	1911	PSU	C4-N3-C2	-3.70	121.01	126.34
1	1A	1984	5MC	C5-C6-N1	-3.70	119.53	123.34
54	1w	39	PSU	O2-C2-N1	-3.69	118.73	122.79
55	1x	8	4SU	C5-C4-N3	3.67	118.10	114.69
55	1x	32	5MC	C5-C6-N1	-3.67	119.57	123.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2w	32	PSU	C4-N3-C2	-3.65	121.08	126.34
1	2A	1962	5MC	C5-C6-N1	-3.65	119.58	123.34
32	1a	1404	5MC	C5-C6-N1	-3.61	119.63	123.34
54	1y	32	PSU	C4-N3-C2	-3.61	121.14	126.34
54	1y	39	PSU	C4-N3-C2	-3.59	121.16	126.34
54	1w	37	MIA	C5-C6-N1	-3.58	117.84	120.81
54	1y	55	PSU	C4-N3-C2	-3.57	121.19	126.34
54	1w	55	PSU	C4-N3-C2	-3.56	121.20	126.34
54	1w	37	MIA	C12-N6-C6	-3.56	117.28	122.55
54	1y	55	PSU	O2-C2-N1	-3.54	118.89	122.79
1	2A	1917	PSU	C4-N3-C2	-3.53	121.25	126.34
54	2w	37	MIA	C12-N6-C6	-3.53	119.83	122.87
1	2A	2605	PSU	O2-C2-N1	-3.52	118.91	122.79
54	1y	8	4SU	N3-C2-N1	3.52	119.56	114.89
54	2w	39	PSU	C4-N3-C2	-3.51	121.27	126.34
32	2a	1518	MA6	N3-C2-N1	-3.49	123.22	128.68
55	2x	54	5MU	C5-C6-N1	-3.47	119.77	123.34
55	2x	55	PSU	O2-C2-N1	-3.47	118.97	122.79
54	2y	37	MIA	N3-C2-N1	-3.47	123.26	128.68
54	1w	8	4SU	C5-C4-S4	-3.45	120.03	124.47
54	1y	37	MIA	N3-C2-N1	-3.44	123.30	128.68
32	1a	1518	MA6	N3-C2-N1	-3.44	123.31	128.68
55	1x	54	5MU	C5-C6-N1	-3.42	119.82	123.34
54	2w	37	MIA	C5-C6-N1	-3.42	117.97	120.81
32	2a	1407	5MC	C5-C6-N1	-3.41	119.83	123.34
54	1w	8	4SU	N3-C2-N1	3.40	119.41	114.89
54	2y	32	PSU	C4-N3-C2	-3.39	121.45	126.34
32	1a	967	5MC	C5-C6-N1	-3.39	119.85	123.34
1	1A	2617	PSU	O2-C2-N1	-3.37	119.08	122.79
54	1y	32	PSU	O2-C2-N1	-3.36	119.09	122.79
54	1y	54	5MU	C5-C6-N1	-3.36	119.88	123.34
43	2l	92	0TD	OD2-CG-CB	3.35	120.38	113.15
1	1A	1937	5MU	C5-C6-N1	-3.34	119.90	123.34
54	2w	54	5MU	C5-C6-N1	-3.34	119.90	123.34
54	2y	39	PSU	O2-C2-N1	-3.32	119.14	122.79
32	1a	1404	5MC	C5-C4-N3	-3.30	118.11	121.67
32	2a	1518	MA6	C9-N6-C6	-3.30	109.52	119.51
54	1w	54	5MU	O4-C4-C5	-3.30	121.08	124.90
1	1A	1933	PSU	O2-C2-N1	-3.29	119.16	122.79
32	1a	1519	MA6	C9-N6-C6	-3.29	109.54	119.51
1	2A	1917	PSU	O2-C2-N1	-3.29	119.17	122.79
32	2a	516	PSU	O2-C2-N1	-3.29	119.17	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2w	55	PSU	O2-C2-N1	-3.28	119.18	122.79
1	2A	2552	2MU	O2-C2-N1	-3.27	118.44	122.79
32	1a	1518	MA6	C9-N6-C6	-3.27	109.61	119.51
55	1x	55	PSU	O2-C2-N1	-3.26	119.20	122.79
32	2a	1519	MA6	N3-C2-N1	-3.26	123.58	128.68
54	1w	32	PSU	O2-C2-N1	-3.25	119.21	122.79
1	2A	1911	PSU	O2-C2-N1	-3.22	119.24	122.79
54	2w	32	PSU	O2-C2-N1	-3.22	119.24	122.79
55	2x	32	5MC	C5-C6-N1	-3.19	120.05	123.34
32	1a	1518	MA6	C4-C5-N7	-3.19	106.08	109.40
54	1w	54	5MU	C5-C6-N1	-3.19	120.06	123.34
32	2a	967	5MC	C5-C6-N1	-3.18	120.06	123.34
54	1y	54	5MU	O4-C4-C5	-3.18	121.22	124.90
32	2a	1519	MA6	C9-N6-C6	-3.12	110.06	119.51
55	1x	8	4SU	O2-C2-N1	3.08	126.88	122.79
32	1a	1407	5MC	C5-C6-N1	-3.06	120.19	123.34
32	1a	1519	MA6	N3-C2-N1	-3.06	123.89	128.68
43	1l	92	0TD	OD2-CG-CB	3.05	119.73	113.15
32	1a	1519	MA6	N1-C6-N6	3.03	120.24	117.06
54	2y	55	PSU	O2-C2-N1	-3.01	119.47	122.79
54	2y	54	5MU	C5-C6-N1	-3.00	120.25	123.34
54	1y	8	4SU	C1'-N1-C2	3.00	123.00	117.57
54	1w	37	MIA	C2-N1-C6	2.96	122.49	117.19
32	2a	1407	5MC	C5-C4-N3	-2.95	118.49	121.67
1	1A	2564	2MU	O2-C2-N1	-2.94	118.87	122.79
55	2x	54	5MU	O2-C2-N1	-2.93	118.89	122.79
54	2y	32	PSU	O2-C2-N1	-2.91	119.59	122.79
54	2w	8	4SU	O2-C2-N1	-2.87	118.97	122.79
55	1x	8	4SU	C1'-N1-C2	2.87	122.77	117.57
1	1A	1961	5MU	O2-C2-N1	-2.87	118.97	122.79
32	2a	527	7MG	C5-C6-N1	2.86	116.03	110.99
1	2A	2251	OMG	C8-N7-C5	2.86	108.43	102.99
32	1a	1519	MA6	C4-C5-N7	-2.85	106.43	109.40
54	2y	46	7MG	C5-C4-N9	-2.84	102.66	106.35
54	1y	37	MIA	C4-C5-N7	-2.84	106.44	109.40
55	1x	32	5MC	C5-C4-N3	-2.84	118.61	121.67
54	2w	37	MIA	C4-C5-N7	-2.82	106.46	109.40
54	1y	46	7MG	C5-C4-N9	-2.80	102.72	106.35
32	2a	1404	5MC	C5-C4-N3	-2.79	118.66	121.67
54	1y	8	4SU	C5-C4-S4	-2.79	120.87	124.47
32	1a	516	PSU	O2-C2-N1	-2.78	119.73	122.79
54	2w	39	PSU	O2-C2-N1	-2.75	119.76	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1w	37	MIA	C4-C5-N7	-2.75	106.53	109.40
1	1A	1964	5MC	C5-C4-N3	-2.73	118.72	121.67
1	1A	2564	2MU	C5-C4-N3	2.73	118.93	114.84
55	2x	8	4SU	C6-C5-C4	-2.73	117.58	119.95
1	2A	2552	2MU	C5-C4-N3	2.72	118.92	114.84
54	2y	54	5MU	C1'-N1-C2	2.72	122.50	117.57
54	2y	37	MIA	C4-C5-N7	-2.72	106.56	109.40
1	2A	2552	2MU	C2'-C1'-N1	-2.70	108.98	114.22
1	1A	2564	2MU	O4-C4-C5	-2.69	120.42	125.16
54	1w	54	5MU	C5M-C5-C4	2.68	121.72	118.77
54	2w	46	7MG	C5-C4-N9	-2.66	102.89	106.35
54	2w	37	MIA	C2-N1-C6	2.62	121.88	117.19
32	1a	1207	2MG	C8-N7-C5	2.61	107.97	102.99
1	2A	1915	5MU	O2-C2-N1	-2.61	119.32	122.79
54	1w	37	MIA	N3-C2-N1	-2.61	122.19	126.98
54	1y	39	PSU	O2-C2-N1	-2.55	119.98	122.79
55	2x	32	5MC	C5-C4-N3	-2.55	118.93	121.67
55	2x	8	4SU	O2-C2-N1	2.54	126.17	122.79
1	1A	2263	OMG	C8-N7-C5	2.54	107.82	102.99
32	1a	1407	5MC	C5-C4-N3	-2.53	118.95	121.67
54	1w	46	7MG	C5-C4-N9	-2.51	103.09	106.35
1	1A	1937	5MU	C5M-C5-C4	2.50	121.52	118.77
54	2w	54	5MU	O2-C2-N1	-2.49	119.47	122.79
1	1A	1937	5MU	O2-C2-N1	-2.48	119.48	122.79
32	2a	1402	4OC	C6-C5-C4	2.48	119.99	116.96
54	2w	46	7MG	C5-C6-N1	2.47	115.35	110.99
1	1A	2515	2MA	C8-N7-C5	2.46	107.69	102.99
32	2a	1207	2MG	C8-N7-C5	2.46	107.67	102.99
43	2l	92	0TD	OD1-CG-CB	-2.44	117.33	122.44
1	2A	2503	2MA	C5-C6-N1	2.43	118.22	114.02
32	1a	527	7MG	C5-C6-N1	2.43	115.28	110.99
32	2a	967	5MC	CM5-C5-C6	-2.43	119.61	122.85
1	1A	2617	PSU	C5-C6-N1	-2.42	118.48	122.11
32	1a	966	M2G	C5-C6-N1	2.42	118.23	113.95
54	2y	46	7MG	C5-C6-N1	2.42	115.25	110.99
1	1A	2515	2MA	C5-C6-N1	2.41	118.17	114.02
55	2x	32	5MC	O2-C2-N3	-2.40	118.42	122.33
54	2y	54	5MU	C1'-N1-C6	-2.40	117.13	121.12
32	2a	967	5MC	C5-C4-N3	-2.39	119.09	121.67
32	1a	966	M2G	C8-N7-C5	2.39	107.54	102.99
32	1a	1518	MA6	C10-N6-C6	-2.39	112.29	119.51
54	1y	46	7MG	C5-C6-N1	2.37	115.17	110.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	1402	4OC	C6-C5-C4	2.37	119.86	116.96
54	2w	37	MIA	N3-C2-N1	-2.37	122.63	126.98
55	2x	8	4SU	O2-C2-N3	-2.32	117.17	121.50
32	2a	1400	5MC	O2-C2-N3	-2.32	118.56	122.33
1	2A	2503	2MA	C8-N7-C5	2.32	107.41	102.99
32	1a	1518	MA6	C10-N6-C9	-2.31	108.68	116.12
1	2A	2251	OMG	C5-C6-N1	2.30	118.02	113.95
32	1a	967	5MC	C5-C4-N3	-2.30	119.19	121.67
54	2y	55	PSU	O4'-C1'-C2'	2.30	108.39	105.14
54	2y	8	4SU	C1'-N1-C2	2.29	121.72	117.57
1	1A	2263	OMG	C5-C6-N1	2.29	118.00	113.95
54	1y	54	5MU	O2-C2-N3	-2.28	117.25	121.50
1	2A	1942	5MC	C5-C4-N3	-2.28	119.21	121.67
32	2a	1498	UR3	C3U-N3-C4	2.28	121.15	117.89
32	2a	966	M2G	C8-N7-C5	2.27	107.31	102.99
32	1a	516	PSU	O4'-C1'-C2'	2.27	108.34	105.14
54	2w	54	5MU	C5M-C5-C4	2.27	121.26	118.77
54	1w	54	5MU	O2-C2-N1	-2.26	119.79	122.79
32	1a	1400	5MC	C5-C4-N3	-2.25	119.25	121.67
54	1w	46	7MG	C5-C6-N1	2.25	114.95	110.99
32	1a	1498	UR3	C1'-N1-C2	2.24	120.78	116.99
54	2w	46	7MG	O6-C6-C5	-2.24	122.05	127.54
1	2A	2552	2MU	O4-C4-C5	-2.23	121.24	125.16
32	2a	527	7MG	C5-C4-N9	-2.21	103.47	106.35
55	2x	32	5MC	C1'-N1-C6	-2.20	117.47	121.12
32	1a	527	7MG	C5-C4-N9	-2.19	103.51	106.35
54	2y	46	7MG	O4'-C1'-N9	-2.17	106.34	109.30
54	2w	8	4SU	C1'-N1-C2	2.17	121.50	117.57
55	1x	8	4SU	S4-C4-N3	-2.17	118.07	120.21
32	1a	1207	2MG	CM2-N2-C2	-2.17	119.07	123.86
32	1a	516	PSU	C5-C6-N1	-2.16	118.86	122.11
32	1a	967	5MC	O2-C2-N3	-2.16	118.81	122.33
32	2a	1207	2MG	C5-C6-N1	2.16	117.76	113.95
1	2A	1939	5MU	O2-C2-N1	-2.16	119.92	122.79
32	2a	1518	MA6	C10-N6-C9	-2.15	109.19	116.12
32	1a	1518	MA6	N1-C6-N6	2.15	119.32	117.06
55	1x	54	5MU	O2-C2-N1	-2.15	119.93	122.79
32	2a	1400	5MC	C5-C4-N3	-2.14	119.36	121.67
32	2a	967	5MC	C1'-N1-C6	-2.14	117.56	121.12
54	2y	54	5MU	O2-C2-N3	-2.13	117.53	121.50
55	1x	8	4SU	O2-C2-N3	-2.13	117.53	121.50
1	2A	2605	PSU	C5-C6-N1	-2.12	118.93	122.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2y	55	PSU	C5-C6-N1	-2.11	118.94	122.11
32	2a	527	7MG	CM7-N7-C5	2.11	131.85	126.40
54	1w	54	5MU	C5M-C5-C6	-2.11	120.03	122.85
32	2a	966	M2G	C5-C6-N1	2.10	117.67	113.95
32	2a	1404	5MC	CM5-C5-C6	-2.10	120.04	122.85
55	1x	32	5MC	O2-C2-N3	-2.10	118.92	122.33
54	2w	37	MIA	N6-C6-N1	2.09	121.11	118.50
54	2w	46	7MG	CM7-N7-C5	2.09	131.79	126.40
32	1a	1404	5MC	O2-C2-N3	-2.09	118.94	122.33
54	1w	46	7MG	O6-C6-C5	-2.08	122.44	127.54
1	2A	1962	5MC	C5-C4-N3	-2.06	119.45	121.67
54	1w	8	4SU	C1'-N1-C2	2.05	121.29	117.57
43	1l	92	0TD	OD1-CG-CB	-2.04	118.17	122.44
32	2a	1402	4OC	O2-C2-N3	-2.03	119.02	122.33
55	1x	54	5MU	C5M-C5-C4	2.03	121.00	118.77
32	1a	1407	5MC	O2-C2-N3	-2.02	119.05	122.33
54	2y	8	4SU	O2-C2-N1	-2.02	120.11	122.79
32	2a	516	PSU	O4'-C1'-C2'	2.01	107.98	105.14
1	2A	2251	OMG	CM2-O2'-C2'	-2.01	109.26	114.52
32	1a	966	M2G	O6-C6-C5	-2.01	120.46	124.37
32	1a	1498	UR3	C3U-N3-C4	2.00	120.75	117.89
32	1a	527	7MG	O6-C6-C5	-2.00	122.63	127.54

There are no chirality outliers.

All (73) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	967	5MC	O4'-C4'-C5'-O5'
32	1a	967	5MC	C3'-C4'-C5'-O5'
32	1a	1207	2MG	N3-C2-N2-CM2
32	1a	1519	MA6	O4'-C4'-C5'-O5'
43	1l	92	0TD	O-C-CA-CB
32	2a	1518	MA6	C5-C6-N6-C9
32	2a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C5-C6-N6-C10
43	2l	92	0TD	CG-CB-SB-CSB
54	1w	37	MIA	C12-C13-C14-C16
54	2w	37	MIA	N1-C6-N6-C12
54	2y	37	MIA	C3'-C4'-C5'-O5'
54	1y	46	7MG	C4'-C5'-O5'-P
54	1y	54	5MU	C3'-C4'-C5'-O5'
54	1y	54	5MU	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
54	2y	55	PSU	O4'-C1'-C5-C6
54	2y	55	PSU	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
32	1a	527	7MG	C3'-C4'-C5'-O5'
32	1a	1402	4OC	O4'-C4'-C5'-O5'
54	1y	8	4SU	C3'-C4'-C5'-O5'
54	1y	8	4SU	O4'-C4'-C5'-O5'
54	2y	37	MIA	O4'-C4'-C5'-O5'
54	2y	55	PSU	C3'-C4'-C5'-O5'
32	2a	1518	MA6	N1-C6-N6-C9
54	2y	46	7MG	O4'-C1'-N9-C4
32	1a	1402	4OC	C3'-C4'-C5'-O5'
32	1a	527	7MG	O4'-C4'-C5'-O5'
32	2a	527	7MG	C3'-C4'-C5'-O5'
32	2a	1400	5MC	O4'-C4'-C5'-O5'
32	2a	1402	4OC	O4'-C4'-C5'-O5'
32	1a	1518	MA6	C5-C6-N6-C10
32	1a	1519	MA6	C5-C6-N6-C10
32	2a	1519	MA6	C5-C6-N6-C9
1	1A	1942	4OC	O4'-C4'-C5'-O5'
1	2A	1962	5MC	O4'-C4'-C5'-O5'
54	2w	46	7MG	C3'-C4'-C5'-O5'
54	2y	46	7MG	C2'-C1'-N9-C8
32	2a	527	7MG	O4'-C4'-C5'-O5'
32	2a	1400	5MC	C3'-C4'-C5'-O5'
1	2A	1917	PSU	O4'-C4'-C5'-O5'
1	2A	2503	2MA	O4'-C4'-C5'-O5'
54	2w	46	7MG	O4'-C4'-C5'-O5'
1	1A	2515	2MA	C4'-C5'-O5'-P
54	1w	46	7MG	C4'-C5'-O5'-P
32	1a	1519	MA6	C4'-C5'-O5'-P
32	2a	1519	MA6	C4'-C5'-O5'-P
54	2y	46	7MG	O4'-C1'-N9-C8
54	1y	8	4SU	C4'-C5'-O5'-P
54	2y	37	MIA	C4'-C5'-O5'-P
54	2w	46	7MG	C4'-C5'-O5'-P
32	2a	1402	4OC	C3'-C4'-C5'-O5'
32	1a	527	7MG	C4'-C5'-O5'-P
54	1y	8	4SU	C2'-C1'-N1-C6
54	2y	54	5MU	C2'-C1'-N1-C6
43	2l	92	0TD	CA-CB-SB-CSB

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Mol	Chain	Res	Type	Atoms
54	2w	37	MIA	C5-C6-N6-C12
43	2l	92	0TD	SB-CB-CG-OD2
1	2A	1962	5MC	C3'-C4'-C5'-O5'
32	2a	1400	5MC	O4'-C1'-N1-C6
32	2a	1400	5MC	C2'-C1'-N1-C6
54	1y	46	7MG	C2'-C1'-N9-C8
54	2w	46	7MG	C2'-C1'-N9-C8
43	1l	92	0TD	CG-CB-SB-CSB
1	1A	1942	4OC	C2'-C1'-N1-C2
54	1y	8	4SU	C2'-C1'-N1-C2
1	1A	1942	4OC	C3'-C4'-C5'-O5'
54	2y	54	5MU	C3'-C4'-C5'-O5'
54	1y	54	5MU	C2'-C1'-N1-C2
54	2y	54	5MU	C2'-C1'-N1-C2
1	1A	2515	2MA	O4'-C4'-C5'-O5'
1	2A	1917	PSU	C3'-C4'-C5'-O5'

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3049 ligands modelled in this entry, 3031 are monoatomic - leaving 18 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
58	CPT	1A	4178	1	0,3,4	-	-	-		
58	CPT	2A	3914	1	0,3,4	-	-	-		
58	CPT	1a	1883	32	0,3,4	-	-	-		
60	SF4	2d	302	35	0,12,12	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
58	CPT	2A	3915	1	0,3,4	-	-	-		
58	CPT	2A	3918	1	0,2,4	-	-	-		
58	CPT	2I	201	8	0,3,4	-	-	-		
58	CPT	1a	1882	32	0,3,4	-	-	-		
58	CPT	2A	3917	1	0,3,4	-	-	-		
60	SF4	1d	501	35	0,12,12	-	-	-		
58	CPT	1A	4180	1	0,3,4	-	-	-		
58	CPT	1A	4177	1	0,3,4	-	-	-		
58	CPT	2A	3919	1	0,3,4	-	-	-		
58	CPT	1A	4181	1	0,2,4	-	-	-		
58	CPT	1A	4179	1	0,3,4	-	-	-		
58	CPT	1A	4182	1	0,3,4	-	-	-		
58	CPT	2A	3916	1	0,3,4	-	-	-		
58	CPT	1I	3002	8	0,3,4	-	-	-		

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
60	SF4	2d	302	35	-	-	0/6/5/5
60	SF4	1d	501	35	-	-	0/6/5/5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

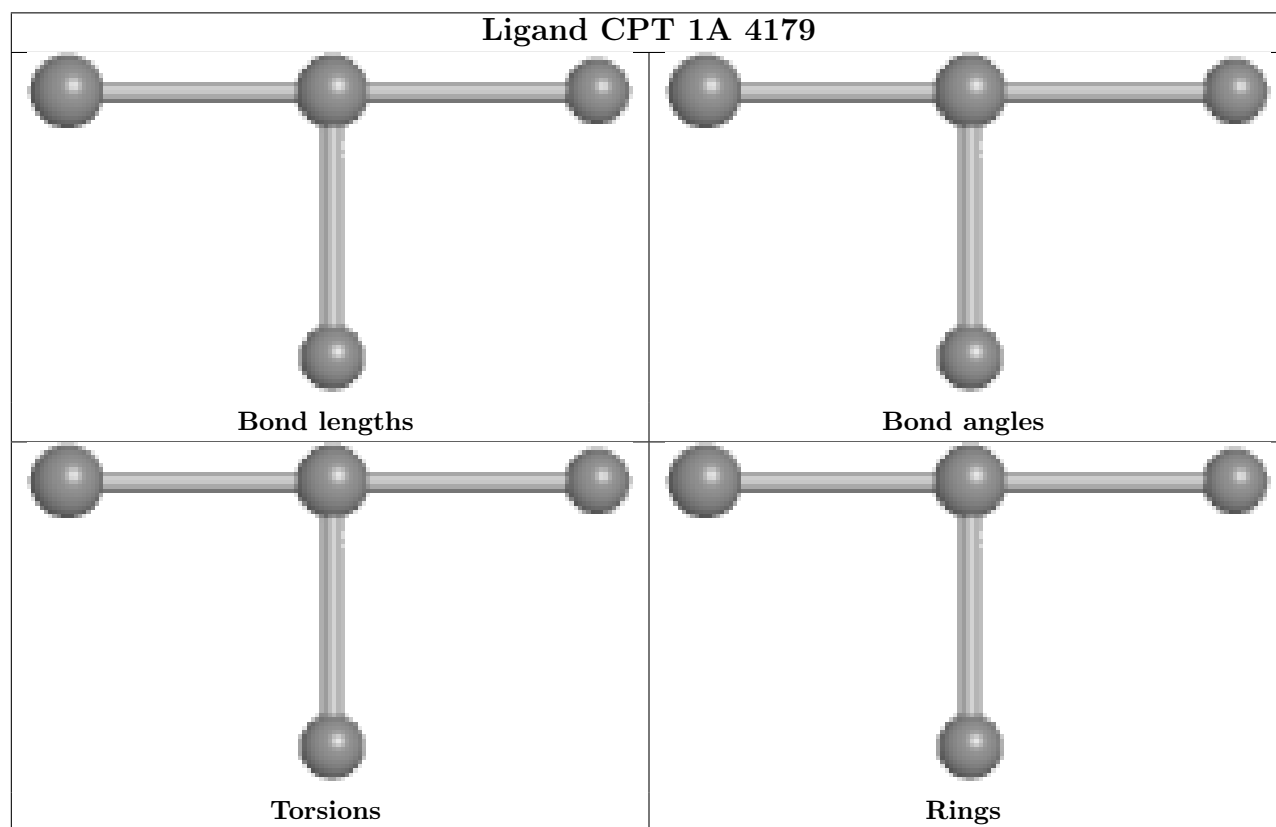
There are no torsion outliers.

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 [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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, 95th 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 ²)	Q<0.9
1	1A	2860/2915 (98%)	0.38	43 (1%) 73 70	23, 44, 93, 105	0
1	2A	2789/2915 (95%)	-0.14	52 (1%) 66 62	28, 48, 91, 104	0
2	1B	120/121 (99%)	0.14	0 100 100	39, 61, 73, 91	0
2	2B	120/121 (99%)	-0.70	0 100 100	46, 67, 77, 91	0
3	1D	275/276 (99%)	0.51	4 (1%) 73 70	24, 42, 58, 81	0
3	2D	275/276 (99%)	0.41	5 (1%) 68 64	26, 44, 60, 80	0
4	1E	204/206 (99%)	0.60	5 (2%) 57 51	25, 48, 65, 80	0
4	2E	204/206 (99%)	0.41	2 (0%) 82 80	28, 51, 68, 80	0
5	1F	203/210 (96%)	0.35	0 100 100	24, 53, 74, 86	0
5	2F	203/210 (96%)	0.46	4 (1%) 65 60	27, 57, 76, 86	0
6	1G	181/182 (99%)	0.34	3 (1%) 70 66	51, 70, 80, 92	0
6	2G	181/182 (99%)	0.07	3 (1%) 70 66	55, 73, 83, 93	0
7	1H	173/180 (96%)	0.53	2 (1%) 79 76	53, 66, 76, 84	0
7	2H	173/180 (96%)	0.76	19 (10%) 5 3	57, 71, 80, 84	0
8	1I	146/148 (98%)	0.03	0 100 100	52, 74, 83, 90	0
8	2I	146/148 (98%)	0.52	7 (4%) 30 24	54, 74, 83, 86	0
9	1N	140/140 (100%)	0.52	0 100 100	33, 50, 69, 76	0
9	2N	140/140 (100%)	0.34	3 (2%) 63 58	37, 54, 70, 77	0
10	1O	122/122 (100%)	0.38	0 100 100	27, 40, 59, 66	0
10	2O	122/122 (100%)	0.51	2 (1%) 72 68	46, 61, 75, 78	0
11	1P	149/150 (99%)	0.36	1 (0%) 87 86	26, 56, 76, 82	0
11	2P	149/150 (99%)	0.47	7 (4%) 31 25	28, 60, 79, 83	0
12	1Q	141/141 (100%)	0.46	1 (0%) 87 86	37, 52, 69, 79	0
12	2Q	141/141 (100%)	0.32	5 (3%) 44 36	41, 58, 71, 81	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	1R	118/118 (100%)	0.38	0 100 100	30, 41, 55, 63	0
13	2R	118/118 (100%)	0.19	0 100 100	33, 44, 57, 66	0
14	1S	110/112 (98%)	0.40	0 100 100	47, 60, 71, 75	0
14	2S	110/112 (98%)	0.21	4 (3%) 42 35	51, 64, 75, 79	0
15	1T	131/146 (89%)	0.42	1 (0%) 86 84	39, 52, 73, 80	0
15	2T	131/146 (89%)	0.51	4 (3%) 49 42	44, 55, 75, 80	0
16	1U	116/118 (98%)	0.62	0 100 100	26, 42, 60, 72	0
16	2U	116/118 (98%)	0.28	2 (1%) 70 66	33, 47, 64, 74	0
17	1V	101/101 (100%)	0.40	1 (0%) 82 80	29, 52, 67, 76	0
17	2V	101/101 (100%)	0.40	5 (4%) 28 23	34, 58, 71, 76	0
18	1W	112/113 (99%)	0.56	1 (0%) 84 82	26, 37, 61, 85	0
18	2W	112/113 (99%)	0.48	3 (2%) 54 48	31, 40, 63, 87	0
19	1X	95/96 (98%)	0.44	0 100 100	30, 45, 64, 83	0
19	2X	95/96 (98%)	0.25	3 (3%) 47 40	33, 49, 67, 83	0
20	1Y	107/110 (97%)	0.46	1 (0%) 84 82	41, 59, 74, 83	0
20	2Y	107/110 (97%)	0.94	14 (13%) 3 2	44, 63, 76, 85	0
21	1Z	154/206 (74%)	0.33	5 (3%) 47 40	37, 65, 87, 93	0
21	2Z	160/206 (77%)	0.78	16 (10%) 7 4	67, 83, 93, 102	0
22	10	83/85 (97%)	0.48	6 (7%) 15 11	26, 40, 64, 76	0
22	20	83/85 (97%)	0.68	6 (7%) 15 11	53, 66, 77, 84	0
23	11	97/98 (98%)	0.33	2 (2%) 63 58	27, 46, 72, 81	0
23	21	97/98 (98%)	0.75	7 (7%) 15 11	37, 57, 76, 82	0
24	12	70/72 (97%)	0.58	2 (2%) 51 45	41, 58, 69, 79	0
24	22	70/72 (97%)	0.01	1 (1%) 75 71	46, 63, 72, 79	0
25	13	59/60 (98%)	0.41	0 100 100	33, 49, 67, 82	0
25	23	59/60 (98%)	0.32	3 (5%) 28 22	40, 54, 70, 84	0
26	14	69/71 (97%)	0.19	2 (2%) 51 45	65, 80, 89, 93	0
26	24	69/71 (97%)	-0.09	3 (4%) 35 28	70, 81, 90, 94	0
27	15	59/60 (98%)	0.42	1 (1%) 70 66	26, 37, 59, 70	0
27	25	59/60 (98%)	0.15	1 (1%) 70 66	30, 41, 62, 70	0
28	16	53/54 (98%)	0.27	0 100 100	39, 51, 67, 71	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	0.15	0 100 100	41, 55, 65, 72	0
29	17	48/49 (97%)	0.87	4 (8%) 11 8	23, 32, 58, 71	0
29	27	48/49 (97%)	0.87	6 (12%) 3 2	25, 35, 60, 72	0
30	18	64/65 (98%)	0.41	0 100 100	33, 43, 54, 68	0
30	28	64/65 (98%)	0.40	2 (3%) 49 42	37, 46, 57, 68	0
31	19	37/37 (100%)	0.81	0 100 100	39, 52, 67, 71	0
31	29	37/37 (100%)	0.86	4 (10%) 5 3	46, 58, 69, 75	0
32	1a	1488/1521 (97%)	-0.17	18 (1%) 79 76	35, 67, 91, 106	0
32	2a	1491/1521 (98%)	-0.18	18 (1%) 79 76	49, 77, 95, 105	0
33	1b	231/256 (90%)	0.23	7 (3%) 50 43	65, 82, 89, 91	0
33	2b	231/256 (90%)	1.02	44 (19%) 1 0	67, 83, 90, 93	0
34	1c	206/239 (86%)	0.32	3 (1%) 73 70	67, 78, 85, 91	0
34	2c	206/239 (86%)	0.58	24 (11%) 4 3	69, 80, 87, 90	0
35	1d	208/209 (99%)	0.46	8 (3%) 40 33	59, 72, 80, 87	0
35	2d	208/209 (99%)	0.42	8 (3%) 40 33	60, 72, 80, 88	0
36	1e	148/162 (91%)	0.40	2 (1%) 75 71	58, 71, 81, 86	0
36	2e	148/162 (91%)	0.70	17 (11%) 4 3	62, 73, 82, 87	0
37	1f	100/101 (99%)	0.28	2 (2%) 65 60	52, 67, 77, 82	0
37	2f	100/101 (99%)	0.19	2 (2%) 65 60	59, 70, 80, 83	0
38	1g	155/156 (99%)	0.16	5 (3%) 47 40	65, 75, 84, 94	0
38	2g	155/156 (99%)	0.24	13 (8%) 11 7	66, 76, 85, 96	0
39	1h	137/138 (99%)	0.48	8 (5%) 23 17	60, 72, 78, 84	0
39	2h	137/138 (99%)	0.62	7 (5%) 28 22	62, 74, 80, 86	0
40	1i	127/128 (99%)	0.14	3 (2%) 59 53	52, 76, 85, 86	0
40	2i	127/128 (99%)	0.84	13 (10%) 6 4	67, 84, 90, 93	0
41	1j	97/105 (92%)	0.44	4 (4%) 37 30	57, 78, 87, 93	0
41	2j	96/105 (91%)	0.53	8 (8%) 11 8	73, 86, 92, 95	0
42	1k	114/129 (88%)	0.14	0 100 100	52, 70, 80, 83	0
42	2k	114/129 (88%)	0.24	4 (3%) 44 36	53, 71, 81, 83	0
43	1l	121/132 (91%)	0.38	3 (2%) 57 51	51, 61, 73, 81	0
43	2l	121/132 (91%)	0.35	5 (4%) 37 30	53, 64, 74, 82	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	123/126 (97%)	0.13	2 (1%) 72 68	57, 70, 80, 88	0
44	2m	122/126 (96%)	0.48	12 (9%) 7 5	71, 84, 90, 92	0
45	1n	60/61 (98%)	0.30	1 (1%) 70 66	59, 68, 75, 78	0
45	2n	60/61 (98%)	1.18	10 (16%) 1 1	72, 84, 90, 93	0
46	1o	88/89 (98%)	0.54	3 (3%) 45 38	55, 69, 79, 82	0
46	2o	88/89 (98%)	0.53	4 (4%) 33 26	58, 70, 80, 83	0
47	1p	82/88 (93%)	0.44	2 (2%) 59 53	57, 71, 80, 83	0
47	2p	82/88 (93%)	0.74	8 (9%) 7 5	58, 71, 80, 83	0
48	1q	99/105 (94%)	0.40	4 (4%) 38 31	58, 71, 81, 84	0
48	2q	99/105 (94%)	0.79	11 (11%) 5 3	62, 72, 80, 85	0
49	1r	68/88 (77%)	0.46	3 (4%) 34 27	60, 69, 80, 81	0
49	2r	68/88 (77%)	0.28	2 (2%) 51 45	61, 70, 80, 83	0
50	1s	83/93 (89%)	0.01	2 (2%) 59 53	68, 79, 85, 91	0
50	2s	83/93 (89%)	0.42	5 (6%) 21 16	71, 81, 87, 91	0
51	1t	96/106 (90%)	0.23	0 100 100	61, 71, 82, 84	0
51	2t	96/106 (90%)	0.74	7 (7%) 15 11	61, 71, 82, 85	0
52	1u	23/27 (85%)	0.57	1 (4%) 35 28	69, 73, 77, 79	0
52	2u	23/27 (85%)	0.90	3 (13%) 3 2	73, 75, 79, 81	0
53	1v	13/24 (54%)	0.39	0 100 100	56, 67, 85, 95	0
53	2v	13/24 (54%)	0.70	2 (15%) 2 1	60, 72, 88, 95	0
54	1w	67/76 (88%)	0.81	8 (11%) 4 3	51, 88, 97, 101	0
54	1y	67/76 (88%)	-0.11	3 (4%) 33 26	37, 92, 99, 103	0
54	2w	65/76 (85%)	0.46	9 (13%) 2 1	63, 94, 101, 103	0
54	2y	66/76 (86%)	0.61	9 (13%) 3 1	50, 96, 100, 102	0
55	1x	72/77 (93%)	-0.16	0 100 100	33, 67, 85, 91	0
55	2x	72/77 (93%)	-0.43	0 100 100	53, 81, 90, 95	0
All	All	20873/21748 (95%)	0.25	615 (2%) 51 45	23, 63, 89, 106	0

All (615) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	124	PRO	9.9
38	2g	82	GLY	8.6

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Mol	Chain	Res	Type	RSRZ
44	2m	123	ALA	8.1
1	2A	2802	G	7.8
45	2n	39	LEU	7.8
33	2b	165	VAL	7.7
1	1A	931	C	7.4
21	2Z	144	LEU	7.3
54	1w	70	G	7.2
21	2Z	149	SER	6.7
33	2b	122	PHE	6.5
1	2A	2793	G	6.3
54	2w	71	G	6.3
1	1A	932	C	6.2
54	1w	71	G	6.0
1	2A	229	A	6.0
32	2a	1030(B)	C	5.8
3	2D	2	ALA	5.8
29	17	48	LYS	5.7
34	2c	198	VAL	5.6
23	21	2	SER	5.4
44	1m	124	PRO	5.4
50	2s	82	GLY	5.3
7	2H	52	VAL	5.3
3	2D	38	LYS	5.3
1	2A	2803	C	5.2
23	11	2	SER	5.2
1	2A	2155	G	5.1
20	2Y	1	MET	5.1
44	2m	120	LYS	5.1
33	2b	92	TYR	5.0
54	2y	36	A	5.0
20	2Y	106	LEU	4.9
34	2c	157	ILE	4.9
1	2A	883	G	4.9
33	2b	121	LEU	4.9
22	20	3	HIS	4.8
1	2A	2154	G	4.8
1	2A	2896	C	4.8
38	2g	80	VAL	4.8
33	2b	215	LEU	4.8
1	2A	2804	C	4.7
21	2Z	170	THR	4.7
31	29	37	GLY	4.7

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Mol	Chain	Res	Type	RSRZ
33	2b	211	ILE	4.7
1	1A	1140	U	4.7
45	2n	25	VAL	4.6
54	2w	72	C	4.6
38	2g	154	TYR	4.6
1	1A	942	A	4.5
34	2c	182	ILE	4.4
38	2g	83	ALA	4.4
41	2j	47	PHE	4.4
1	2A	2146	C	4.4
33	2b	66	GLY	4.3
44	2m	102	ARG	4.3
38	2g	79	ARG	4.3
20	1Y	1	MET	4.3
33	2b	152	PHE	4.3
44	2m	122	LYS	4.3
51	2t	24	LEU	4.3
50	2s	80	TYR	4.3
19	2X	68	ARG	4.2
29	17	47	ARG	4.2
33	2b	118	LEU	4.2
29	17	46	VAL	4.1
38	1g	82	GLY	4.1
1	2A	2132	U	4.1
33	2b	214	ILE	4.1
1	1A	1141	A	4.1
54	1w	20	U	4.0
22	20	7	LEU	4.0
33	2b	161	ALA	4.0
51	2t	9	ASN	4.0
54	1w	44	G	4.0
38	2g	156	TRP	3.9
38	1g	80	VAL	3.9
40	2i	115	GLY	3.9
29	27	47	ARG	3.9
36	2e	10	MET	3.9
1	2A	2897	U	3.9
1	2A	885	C	3.8
4	2E	52	LEU	3.8
1	2A	2805	G	3.8
29	27	48	LYS	3.8
7	2H	45	VAL	3.8

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Mol	Chain	Res	Type	RSRZ
34	2c	124	ILE	3.8
40	2i	7	THR	3.8
33	2b	201	ILE	3.8
36	2e	12	LEU	3.8
18	2W	112	GLY	3.7
1	2A	2801(A)	A	3.7
22	10	7	LEU	3.7
22	20	2	ALA	3.7
46	1o	87	ILE	3.7
1	1A	1221	G	3.7
32	2a	1034	G	3.7
7	2H	37	VAL	3.7
3	1D	275	LYS	3.7
1	2A	614(B)	G	3.7
36	2e	13	ILE	3.7
22	10	2	ALA	3.7
27	15	60	VAL	3.6
1	1A	1555	C	3.6
1	2A	2133	G	3.6
54	2w	70	G	3.6
20	2Y	5	MET	3.6
40	2i	109	VAL	3.6
32	2a	1033	G	3.6
48	2q	100	LYS	3.6
1	1A	934	A	3.6
32	1a	1531	A	3.6
49	1r	73	ALA	3.5
34	1c	113	ALA	3.5
44	2m	119	GLY	3.5
54	2w	73	A	3.5
1	2A	2138	C	3.5
38	2g	85	TYR	3.5
41	2j	63	PHE	3.5
33	2b	203	GLY	3.5
1	1A	1139	G	3.5
1	2A	2131	G	3.5
45	2n	38	GLY	3.4
29	27	46	VAL	3.4
42	2k	25	TYR	3.4
1	2A	1026	U	3.4
53	2v	24	A	3.4
33	2b	188	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
12	2Q	22	LYS	3.4
45	2n	34	TYR	3.4
32	1a	1257	U	3.4
1	1A	2814	C	3.4
32	1a	1030(B)	C	3.4
19	2X	92	LEU	3.4
1	2A	652(B)	A	3.4
22	10	4	LYS	3.3
44	1m	2	ALA	3.3
38	2g	84	ASN	3.3
1	2A	2156	G	3.3
34	2c	188	LEU	3.3
39	1h	133	LEU	3.3
54	1w	72	C	3.3
1	2A	2153	G	3.3
33	2b	163	PHE	3.3
32	2a	1257	U	3.3
12	2Q	104	PHE	3.3
22	10	3	HIS	3.3
33	2b	70	PHE	3.3
1	1A	1142	A	3.3
1	1A	1122	C	3.2
3	2D	276	LYS	3.2
40	2i	17	VAL	3.2
1	1A	2806	G	3.2
22	10	6	GLY	3.2
44	2m	6	GLY	3.2
1	2A	896	A	3.2
1	1A	2807	C	3.2
29	27	1	MET	3.2
1	2A	2145	C	3.2
15	2T	111	ARG	3.2
6	1G	139	LEU	3.2
23	21	98	LEU	3.2
33	2b	48	MET	3.2
54	1w	69	G	3.2
1	1A	1127	U	3.1
20	2Y	65	ALA	3.1
23	21	63	ALA	3.1
33	2b	187	LEU	3.1
32	1a	1036	G	3.1
47	2p	9	PHE	3.1

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Mol	Chain	Res	Type	RSRZ
1	2A	2159	G	3.1
48	2q	23	VAL	3.1
40	2i	27	THR	3.1
1	2A	882	G	3.1
1	2A	2792	G	3.1
1	2A	614(A)	U	3.1
44	2m	90	LEU	3.1
51	2t	63	ILE	3.1
7	1H	2	SER	3.1
44	2m	121	LYS	3.1
45	2n	42	ILE	3.1
45	2n	37	PHE	3.1
48	2q	33	GLY	3.1
21	2Z	137	ILE	3.1
1	2A	2139	C	3.0
54	2w	4	C	3.0
1	1A	1112	U	3.0
1	1A	1128	U	3.0
40	2i	14	VAL	3.0
35	2d	49	ARG	3.0
54	1w	3	C	3.0
43	2l	64	TYR	3.0
51	2t	13	LEU	3.0
1	1A	935	C	3.0
7	2H	113	VAL	3.0
17	2V	72	VAL	3.0
35	2d	146	ILE	3.0
26	24	51	ASP	3.0
1	1A	933	C	3.0
1	1A	1110	C	3.0
21	2Z	156	LYS	3.0
29	27	45	ALA	3.0
21	1Z	149	SER	3.0
23	21	62	VAL	3.0
33	2b	51	LEU	3.0
1	2A	2807	G	3.0
12	2Q	109	VAL	3.0
1	1A	2815	C	2.9
1	2A	888	C	2.9
1	1A	1105	G	2.9
10	2O	81	ASP	2.9
38	1g	83	ALA	2.9

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Mol	Chain	Res	Type	RSRZ
36	2e	9	LYS	2.9
35	1d	168	ARG	2.9
48	2q	9	VAL	2.9
4	2E	77	ILE	2.9
9	2N	8	GLN	2.9
54	1y	47	U	2.9
7	2H	96	ALA	2.9
33	2b	120	ALA	2.9
33	2b	200	ILE	2.9
5	2F	12	LEU	2.9
40	1i	106	ALA	2.9
1	1A	1104	G	2.9
43	2l	18	VAL	2.9
1	2A	884	C	2.9
3	1D	276	LYS	2.9
39	1h	112	LEU	2.9
46	2o	60	VAL	2.9
21	1Z	104	PHE	2.8
7	2H	35	VAL	2.8
11	2P	109	GLY	2.8
33	2b	127	ILE	2.8
50	1s	40	ILE	2.8
54	1y	20	U	2.8
33	1b	61	LEU	2.8
51	2t	26	ASN	2.8
5	2F	208	GLY	2.8
46	2o	89	GLY	2.8
39	1h	86	ILE	2.8
48	2q	36	ILE	2.8
1	2A	2158	A	2.8
47	1p	1	MET	2.8
21	2Z	155	LEU	2.8
36	2e	8	GLU	2.8
44	2m	66	LEU	2.8
1	1A	1143	U	2.8
33	1b	165	VAL	2.8
33	2b	81	VAL	2.8
37	2f	59	TYR	2.8
38	1g	79	ARG	2.8
46	1o	78	TYR	2.8
22	10	5	LYS	2.8
21	1Z	169	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
20	2Y	90	LEU	2.8
14	2S	46	VAL	2.8
36	1e	10	MET	2.8
1	2A	2127	G	2.8
54	1y	35	A	2.8
1	2A	1509	C	2.8
4	1E	78	LEU	2.8
7	2H	72	ILE	2.8
48	1q	27	PHE	2.8
20	2Y	3	VAL	2.8
38	2g	4	ARG	2.8
49	2r	46	GLU	2.8
7	2H	105	LEU	2.8
8	2I	9	LEU	2.8
45	2n	51	GLY	2.8
20	2Y	55	TYR	2.7
4	1E	195	LEU	2.7
38	2g	16	LEU	2.7
48	2q	22	LEU	2.7
21	2Z	145	GLU	2.7
32	2a	485	G	2.7
40	2i	76	ALA	2.7
3	2D	37	LEU	2.7
39	2h	122	ARG	2.7
43	2l	32	PHE	2.7
1	1A	943	C	2.7
20	2Y	107	ASP	2.7
32	1a	1001(A)	G	2.7
32	1a	1002	G	2.7
32	2a	1030(A)	G	2.7
11	2P	79	ARG	2.7
41	2j	66	ARG	2.7
52	2u	6	ARG	2.7
22	20	5	LYS	2.7
39	2h	93	VAL	2.7
7	2H	34	GLU	2.7
1	2A	2794	C	2.7
32	1a	1532	U	2.7
36	2e	11	ILE	2.7
17	2V	92	THR	2.7
50	2s	68	GLY	2.7
26	24	63	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
21	2Z	148	ASP	2.7
1	2A	2128	C	2.6
41	1j	10	GLY	2.6
47	2p	6	LEU	2.6
3	1D	2	ALA	2.6
26	14	54	GLY	2.6
42	2k	89	ALA	2.6
21	2Z	139	VAL	2.6
4	1E	87	GLU	2.6
3	1D	38	LYS	2.6
49	2r	85	LEU	2.6
1	2A	2147	G	2.6
32	1a	1030(C)	G	2.6
33	2b	71	VAL	2.6
29	27	23	ARG	2.6
35	2d	168	ARG	2.6
19	2X	69	TYR	2.6
38	1g	85	TYR	2.6
29	17	45	ALA	2.6
1	2A	2833	G	2.6
20	2Y	45	VAL	2.6
9	2N	1	MET	2.6
49	1r	79	LEU	2.6
32	2a	1030(C)	G	2.6
40	2i	62	TYR	2.6
43	2l	39	VAL	2.6
21	2Z	125	LEU	2.6
32	1a	162	A	2.6
32	2a	1035	A	2.6
40	2i	105	ASP	2.6
48	2q	98	LEU	2.6
7	2H	47	GLU	2.6
1	2A	2125	G	2.6
12	2Q	66	ILE	2.6
34	2c	189	ALA	2.6
47	2p	59	TRP	2.5
49	1r	78	LEU	2.5
30	28	2	PRO	2.5
32	2a	1030(D)	A	2.5
35	2d	158	ILE	2.5
45	1n	2	ALA	2.5
1	1A	1124	U	2.5

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Mol	Chain	Res	Type	RSRZ
33	2b	31	TYR	2.5
7	2H	166	GLY	2.5
1	2A	2157	G	2.5
26	24	49	PHE	2.5
1	1A	936	C	2.5
21	2Z	51	ALA	2.5
36	2e	109	ILE	2.5
22	20	4	LYS	2.5
35	1d	122	ARG	2.5
16	2U	2	PRO	2.5
34	2c	138	VAL	2.5
37	1f	90	VAL	2.5
47	2p	38	TYR	2.5
7	2H	159	GLU	2.5
34	2c	134	ILE	2.5
52	1u	17	THR	2.5
33	1b	215	LEU	2.5
33	2b	69	LEU	2.5
8	2I	12	LEU	2.5
8	2I	38	LEU	2.5
32	2a	1001(A)	G	2.5
11	2P	1	MET	2.5
7	2H	6	ARG	2.5
20	2Y	91	GLU	2.5
41	1j	20	ALA	2.5
45	2n	50	LYS	2.5
34	2c	185	GLY	2.4
4	1E	28	ALA	2.4
33	2b	225	ALA	2.4
34	2c	206	GLU	2.4
33	1b	227	GLY	2.4
33	2b	216	SER	2.4
34	2c	190	ARG	2.4
33	2b	55	PHE	2.4
1	1A	1123	A	2.4
54	2w	76	A	2.4
25	23	60	GLU	2.4
41	2j	10	GLY	2.4
44	2m	87	TYR	2.4
36	2e	30	ALA	2.4
45	2n	12	ARG	2.4
32	1a	1034	G	2.4

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Mol	Chain	Res	Type	RSRZ
39	2h	2	LEU	2.4
41	2j	40	LEU	2.4
33	2b	222	ILE	2.4
34	2c	8	ILE	2.4
39	2h	83	ILE	2.4
48	1q	36	ILE	2.4
54	1w	73	A	2.4
32	2a	1532	U	2.4
33	2b	184	VAL	2.4
35	1d	180	GLY	2.4
21	2Z	4	ARG	2.4
34	1c	72	LYS	2.4
32	1a	1003	G	2.4
33	2b	218	ALA	2.4
34	2c	194	GLY	2.4
1	1A	271	U	2.4
1	1A	1144	A	2.4
23	21	69	LYS	2.4
26	14	55	ARG	2.4
32	2a	202	U	2.4
34	2c	4	LYS	2.4
15	2T	1	MET	2.4
34	2c	142	MET	2.4
41	2j	85	LEU	2.4
15	2T	102	ILE	2.4
34	2c	158	GLY	2.4
36	2e	22	GLY	2.4
36	2e	114	GLY	2.4
54	2w	44	G	2.4
35	2d	115	ARG	2.4
33	2b	210	SER	2.3
39	2h	133	LEU	2.3
46	1o	57	LEU	2.3
7	2H	48	GLY	2.3
17	1V	101	GLY	2.3
12	1Q	59	ARG	2.3
14	2S	20	ARG	2.3
25	23	29	ARG	2.3
7	2H	44	VAL	2.3
54	2y	52	G	2.3
32	2a	204	U	2.3
40	2i	125	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
34	2c	145	GLY	2.3
38	2g	81	GLY	2.3
23	21	61	ARG	2.3
33	2b	185	ILE	2.3
22	20	45	PHE	2.3
39	2h	4	ASP	2.3
48	1q	98	LEU	2.3
51	2t	25	ARG	2.3
9	2N	5	VAL	2.3
36	2e	90	VAL	2.3
33	2b	101	MET	2.3
41	2j	68	HIS	2.3
34	2c	196	LEU	2.3
43	1l	29	GLY	2.3
32	1a	204	U	2.3
1	2A	2319	G	2.3
6	2G	140	ILE	2.3
40	2i	63	ILE	2.3
47	2p	33	ILE	2.3
21	2Z	169	GLU	2.3
31	29	12	ASP	2.3
36	2e	123	LEU	2.3
48	2q	42	TYR	2.3
1	1A	1072	U	2.3
30	28	16	ILE	2.3
8	2I	122	GLU	2.3
17	2V	14	VAL	2.3
54	2y	1	G	2.3
6	1G	146	TYR	2.3
27	25	29	THR	2.3
39	2h	58	TYR	2.3
1	1A	1106	U	2.3
1	2A	272(A)	U	2.3
47	2p	19	ILE	2.3
41	1j	5	ARG	2.3
21	1Z	160	GLY	2.3
23	21	81	LYS	2.3
1	1A	2816	G	2.3
17	2V	71	LEU	2.3
32	1a	1030(A)	G	2.3
46	2o	57	LEU	2.3
54	2y	5	G	2.3

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Mol	Chain	Res	Type	RSRZ
1	1A	1138	C	2.3
1	1A	2167	C	2.3
35	1d	138	TYR	2.3
51	2t	41	ILE	2.3
43	2l	55	VAL	2.3
18	2W	26	GLY	2.2
12	2Q	37	LEU	2.2
50	2s	30	LEU	2.2
10	2O	76	ALA	2.2
41	2j	48	THR	2.2
32	2a	1149	C	2.2
46	2o	87	ILE	2.2
6	2G	151	ALA	2.2
33	2b	17	PHE	2.2
35	1d	2	GLY	2.2
1	1A	2813	G	2.2
1	2A	652(U)	G	2.2
1	2A	2894	G	2.2
1	2A	2134	A	2.2
11	1P	105	LEU	2.2
35	1d	157	LEU	2.2
7	2H	102	ALA	2.2
33	2b	135	GLN	2.2
14	2S	14	VAL	2.2
16	2U	17	ILE	2.2
31	29	17	ILE	2.2
41	1j	23	ILE	2.2
5	2F	20	LEU	2.2
25	23	26	LEU	2.2
1	1A	1220	U	2.2
31	29	13	LYS	2.2
4	1E	77	ILE	2.2
7	2H	115	VAL	2.2
21	1Z	141	VAL	2.2
34	2c	131	ARG	2.2
35	2d	47	ARG	2.2
7	2H	36	PRO	2.2
17	2V	94	LEU	2.2
1	1A	2906	U	2.2
32	2a	1021	G	2.2
39	1h	93	VAL	2.2
44	2m	3	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
33	2b	232	PRO	2.2
36	2e	31	LEU	2.2
1	1A	1121	C	2.2
11	2P	77	ARG	2.2
54	2w	45	U	2.2
33	2b	37	ASN	2.2
54	2y	57	G	2.2
39	1h	134	ILE	2.2
43	1l	55	VAL	2.2
37	1f	61	LEU	2.2
40	2i	19	LEU	2.2
14	2S	5	THR	2.2
1	1A	1145	G	2.1
32	1a	1023	G	2.1
11	2P	15	ARG	2.1
33	2b	96	ARG	2.1
34	1c	87	LEU	2.1
34	2c	6	HIS	2.1
33	2b	139	LYS	2.1
32	2a	1531	A	2.1
35	1d	170	VAL	2.1
1	2A	2144	U	2.1
32	2a	1039	C	2.1
20	2Y	47	LYS	2.1
36	1e	81	GLU	2.1
47	1p	59	TRP	2.1
7	1H	174	GLY	2.1
15	1T	89	VAL	2.1
33	1b	19	HIS	2.1
35	2d	122	ARG	2.1
39	1h	2	LEU	2.1
32	2a	1030	C	2.1
33	1b	231	GLU	2.1
54	2w	3	C	2.1
24	12	70	GLN	2.1
11	2P	73	GLY	2.1
34	2c	41	GLY	2.1
35	1d	73	ARG	2.1
40	2i	93	ARG	2.1
5	2F	161	GLU	2.1
18	1W	111	HIS	2.1
48	2q	65	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
32	1a	161	A	2.1
33	1b	232	PRO	2.1
54	2y	34	G	2.1
35	2d	160	GLN	2.1
1	1A	2154	U	2.1
1	2A	2137	C	2.1
1	2A	2174	C	2.1
54	2y	61	C	2.1
33	2b	105	PHE	2.1
8	2I	44	LEU	2.1
20	2Y	75	ILE	2.1
21	2Z	96	VAL	2.1
47	2p	39	TYR	2.1
20	2Y	48	ALA	2.1
24	12	8	LYS	2.1
32	1a	1001	A	2.1
53	2v	12	A	2.1
8	2I	93	THR	2.1
32	1a	1446	U	2.1
43	1l	6	THR	2.1
50	2s	79	THR	2.1
1	2A	645	C	2.1
1	2A	2140	C	2.1
52	2u	11	GLY	2.1
24	22	60	LEU	2.1
40	1i	19	LEU	2.1
37	2f	52	ILE	2.1
7	2H	157	TYR	2.1
36	2e	25	ARG	2.1
48	2q	27	PHE	2.1
1	1A	1146	C	2.0
33	2b	164	VAL	2.0
36	2e	20	GLN	2.0
50	1s	71	LEU	2.0
15	2T	52	ILE	2.0
21	2Z	171	ILE	2.0
48	1q	28	PRO	2.0
38	2g	152	ALA	2.0
40	1i	8	GLY	2.0
18	2W	86	LEU	2.0
45	2n	44	LEU	2.0
1	1A	2805	G	2.0

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Mol	Chain	Res	Type	RSRZ
32	1a	1024	G	2.0
42	2k	35	PRO	2.0
34	2c	160	ALA	2.0
38	2g	7	ALA	2.0
33	2b	227	GLY	2.0
34	2c	2	GLY	2.0
36	2e	16	THR	2.0
36	2e	29	GLY	2.0
39	1h	4	ASP	2.0
23	11	98	LEU	2.0
20	2Y	24	VAL	2.0
52	2u	15	ARG	2.0
3	2D	271	ILE	2.0
11	2P	75	ILE	2.0
39	1h	6	ILE	2.0
6	2G	146	TYR	2.0
42	2k	117	ASN	2.0
47	2p	12	LYS	2.0
54	2y	21	A	2.0
34	2c	155	GLY	2.0
54	2y	56	C	2.0
6	1G	26	GLN	2.0
8	2I	35	LEU	2.0
48	2q	25	ARG	2.0
21	2Z	68	PRO	2.0

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

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, 95th 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(\AA^2)	Q<0.9
54	7MG	2w	46	24/25	0.74	0.19	85,97,104,130	0
54	7MG	2y	46	24/25	0.79	0.19	83,97,105,122	0
54	PSU	1y	55	20/21	0.79	0.24	86,96,105,118	0
54	PSU	2y	55	20/21	0.79	0.28	88,97,113,114	0
54	PSU	2y	32	20/21	0.80	0.15	67,90,100,108	0
54	MIA	2y	37	22/30	0.80	0.22	66,89,94,118	0
54	4SU	2w	8	20/21	0.81	0.19	85,97,111,115	0
54	4SU	2y	8	20/21	0.81	0.14	82,99,109,121	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
54	7MG	1w	46	24/25	0.81	0.20	74,88,107,126	0
54	7MG	1y	46	24/25	0.81	0.20	79,97,103,116	0
54	4SU	1y	8	20/21	0.83	0.16	80,95,102,108	0
54	PSU	2w	55	20/21	0.85	0.16	73,84,98,98	0
54	5MU	1y	54	21/22	0.85	0.20	84,90,99,116	0
54	5MU	2y	54	21/22	0.86	0.28	83,92,101,129	0
54	4SU	1w	8	20/21	0.86	0.19	80,86,108,116	0
54	5MU	2w	54	21/22	0.88	0.14	71,81,87,95	0
54	MIA	1y	37	22/30	0.88	0.15	77,86,92,97	0
54	PSU	1w	55	20/21	0.88	0.16	64,78,85,90	0
55	4SU	2x	8	20/21	0.88	0.14	72,85,92,94	0
54	PSU	2y	39	20/21	0.89	0.19	83,88,96,110	0
55	PSU	2x	55	20/21	0.89	0.14	77,86,93,98	0
54	PSU	1y	32	20/21	0.90	0.16	76,91,99,99	0
32	2MG	2a	1207	24/25	0.90	0.14	73,86,90,101	0
55	5MU	2x	54	21/22	0.91	0.18	72,87,94,102	0
54	PSU	2w	32	20/21	0.91	0.20	66,80,98,99	0
54	PSU	1y	39	20/21	0.92	0.18	77,83,87,97	0
43	0TD	1l	92	10/11	0.92	0.19	56,62,65,85	0
54	MIA	2w	37	25/30	0.92	0.17	61,76,85,87	0
55	PSU	1x	55	20/21	0.92	0.16	54,69,89,90	0
32	5MC	2a	967	21/22	0.92	0.14	66,74,80,89	0
32	M2G	2a	966	25/26	0.93	0.19	55,70,86,91	0
1	5MU	2A	1915	21/22	0.93	0.12	62,69,75,82	0
32	PSU	2a	516	20/21	0.93	0.13	63,75,81,88	0
54	PSU	2w	39	20/21	0.93	0.24	72,83,93,94	0
43	0TD	2l	92	10/11	0.93	0.20	62,64,70,87	0
1	PSU	2A	1917	20/21	0.95	0.15	56,65,69,73	0
1	PSU	2A	1911	20/21	0.95	0.14	53,61,67,68	0
32	4OC	2a	1402	22/23	0.95	0.17	50,64,75,79	0
55	4SU	1x	8	20/21	0.95	0.16	58,70,80,91	0
54	PSU	1w	32	20/21	0.95	0.16	58,70,78,82	0
55	5MC	2x	32	21/22	0.95	0.19	68,77,83,89	0
55	5MU	1x	54	21/22	0.95	0.13	59,70,77,78	0
32	5MC	2a	1404	21/22	0.95	0.18	53,58,65,72	0
32	7MG	2a	527	24/25	0.95	0.14	52,60,75,82	0
1	5MU	1A	1937	21/22	0.95	0.18	57,65,71,73	0
32	MA6	2a	1519	24/25	0.96	0.23	44,68,73,79	0
54	5MU	1w	54	21/22	0.96	0.15	43,64,74,80	0
1	PSU	1A	1939	20/21	0.96	0.18	54,61,64,67	0
1	PSU	1A	1933	20/21	0.96	0.21	50,57,63,64	0
32	5MC	2a	1407	21/22	0.96	0.18	40,56,69,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
54	MIA	1w	37	29/30	0.96	0.20	46,57,69,76	0
32	UR3	2a	1498	21/22	0.96	0.21	51,59,70,72	0
32	MA6	2a	1518	24/25	0.96	0.20	53,67,75,80	0
32	5MC	1a	1400	21/22	0.97	0.17	41,53,58,62	0
54	PSU	1w	39	20/21	0.97	0.18	55,68,77,79	0
32	5MC	1a	1404	21/22	0.97	0.18	37,44,49,52	0
1	4OC	1A	1942	21/23	0.97	0.20	39,56,58,62	0
32	5MC	2a	1400	21/22	0.97	0.19	66,70,79,87	0
32	PSU	1a	516	20/21	0.97	0.15	48,58,65,70	0
32	7MG	1a	527	24/25	0.97	0.16	33,46,53,62	0
55	5MC	1x	32	21/22	0.97	0.18	49,54,65,69	0
32	M2G	1a	966	25/26	0.97	0.17	44,57,68,77	0
1	5MC	2A	1942	21/22	0.97	0.15	49,54,59,64	0
1	5MC	2A	1962	21/22	0.97	0.17	28,44,54,61	0
32	5MC	1a	967	21/22	0.97	0.17	44,52,68,72	0
32	2MG	1a	1207	24/25	0.97	0.13	60,68,75,76	0
32	5MC	1a	1407	21/22	0.98	0.19	34,42,47,48	0
32	MA6	1a	1518	24/25	0.98	0.20	30,41,50,51	0
32	MA6	1a	1519	24/25	0.98	0.21	38,45,51,54	0
1	5MC	1A	1984	21/22	0.98	0.19	27,41,49,56	0
1	OMG	1A	2263	24/25	0.98	0.21	26,30,36,39	0
1	2MA	1A	2515	23/24	0.98	0.23	19,26,31,32	0
1	2MU	1A	2564	21/23	0.98	0.22	26,35,40,42	0
1	4OC	2A	1920	21/23	0.98	0.16	45,57,62,65	0
1	5MU	2A	1939	21/22	0.98	0.18	29,36,40,43	0
1	PSU	1A	2617	20/21	0.98	0.20	27,32,41,41	0
32	4OC	1a	1402	22/23	0.98	0.18	38,47,55,64	0
1	OMG	2A	2251	24/25	0.98	0.18	29,35,40,47	0
1	2MA	2A	2503	23/24	0.98	0.18	24,29,34,40	0
1	2MU	2A	2552	21/23	0.98	0.17	32,36,44,51	0
1	PSU	2A	2605	20/21	0.98	0.18	29,35,43,48	0
1	5MC	1A	1964	21/22	0.98	0.19	45,50,57,58	0
32	UR3	1a	1498	21/22	0.99	0.18	35,46,50,57	0
1	5MU	1A	1961	21/22	0.99	0.22	28,34,41,42	0

6.3 Carbohydrates i

There are no monosaccharides in this entry.

6.4 Ligands i

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, 95th 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 ²)	Q<0.9
56	MG	2A	3805	1/1	0.18	0.40	54,54,54,54	0
56	MG	1A	4123	1/1	0.20	0.21	79,79,79,79	0
56	MG	1B	3027	1/1	0.27	0.20	87,87,87,87	0
56	MG	1A	4139	1/1	0.34	0.19	70,70,70,70	0
56	MG	2a	1743	1/1	0.36	0.20	72,72,72,72	0
56	MG	2A	3881	1/1	0.37	0.17	86,86,86,86	0
56	MG	2A	3700	1/1	0.40	0.56	68,68,68,68	0
56	MG	1a	1846	1/1	0.43	0.16	74,74,74,74	0
56	MG	2A	3806	1/1	0.43	0.17	67,67,67,67	0
56	MG	1A	3377	1/1	0.47	0.17	68,68,68,68	0
56	MG	1Y	201	1/1	0.47	0.14	69,69,69,69	0
56	MG	1A	4053	1/1	0.47	0.18	67,67,67,67	0
56	MG	2A	3174	1/1	0.47	0.18	77,77,77,77	0
56	MG	2A	3212	1/1	0.47	1.16	74,74,74,74	0
56	MG	2x	101	1/1	0.47	0.19	82,82,82,82	0
56	MG	1A	4092	1/1	0.48	0.10	76,76,76,76	0
56	MG	1A	4061	1/1	0.49	0.11	72,72,72,72	0
56	MG	2x	102	1/1	0.51	0.17	88,88,88,88	0
56	MG	1A	4038	1/1	0.52	0.39	97,97,97,97	0
56	MG	1A	3297	1/1	0.52	0.19	58,58,58,58	0
56	MG	1B	3008	1/1	0.52	0.27	51,51,51,51	0
56	MG	2A	3252	1/1	0.54	0.52	63,63,63,63	0
56	MG	2a	1794	1/1	0.54	0.33	101,101,101,101	0
56	MG	2a	1623	1/1	0.56	0.36	81,81,81,81	0
56	MG	1A	4089	1/1	0.57	0.10	62,62,62,62	0
56	MG	1a	1844	1/1	0.57	0.09	59,59,59,59	0
56	MG	2a	1752	1/1	0.57	0.42	101,101,101,101	0
56	MG	1a	1868	1/1	0.58	0.08	83,83,83,83	0
56	MG	2A	3115	1/1	0.58	0.33	56,56,56,56	0
56	MG	2A	3669	1/1	0.58	0.18	70,70,70,70	0
56	MG	2a	1621	1/1	0.58	0.23	77,77,77,77	0
56	MG	1A	3779	1/1	0.58	0.26	80,80,80,80	0
56	MG	1A	4142	1/1	0.59	0.16	56,56,56,56	0
56	MG	2a	1625	1/1	0.59	0.11	86,86,86,86	0
56	MG	2a	1706	1/1	0.59	0.17	82,82,82,82	0
56	MG	2A	3376	1/1	0.59	0.33	68,68,68,68	0
56	MG	1A	3312	1/1	0.60	0.24	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	1701	1/1	0.60	0.26	84,84,84,84	0
56	MG	1A	3632	1/1	0.60	0.15	65,65,65,65	0
56	MG	1a	1831	1/1	0.60	0.15	88,88,88,88	0
56	MG	1A	3263	1/1	0.61	0.17	76,76,76,76	0
56	MG	2a	1645	1/1	0.61	0.14	82,82,82,82	0
56	MG	2a	1667	1/1	0.61	0.16	70,70,70,70	0
56	MG	1a	1693	1/1	0.61	0.28	63,63,63,63	0
56	MG	1A	3558	1/1	0.61	0.22	75,75,75,75	0
56	MG	1a	1877	1/1	0.62	0.10	76,76,76,76	0
56	MG	1A	4055	1/1	0.62	0.32	81,81,81,81	0
56	MG	2a	1725	1/1	0.62	0.17	75,75,75,75	0
56	MG	1A	3438	1/1	0.62	0.22	52,52,52,52	0
56	MG	2A	3803	1/1	0.62	0.26	52,52,52,52	0
56	MG	2a	1631	1/1	0.62	0.47	74,74,74,74	0
56	MG	2j	8002	1/1	0.62	0.12	74,74,74,74	0
56	MG	1A	3211	1/1	0.62	0.16	76,76,76,76	0
56	MG	1a	1873	1/1	0.62	0.10	69,69,69,69	0
56	MG	1A	3051	1/1	0.63	0.33	51,51,51,51	0
56	MG	1A	3762	1/1	0.63	0.13	56,56,56,56	0
56	MG	2a	1656	1/1	0.63	0.36	86,86,86,86	0
56	MG	2a	1728	1/1	0.63	0.23	63,63,63,63	0
56	MG	2A	3204	1/1	0.63	0.23	68,68,68,68	0
56	MG	1A	3479	1/1	0.64	0.23	72,72,72,72	0
56	MG	1A	4209	1/1	0.64	0.10	84,84,84,84	0
56	MG	1n	102	1/1	0.64	0.27	69,69,69,69	0
56	MG	1y	103	1/1	0.64	0.15	89,89,89,89	0
56	MG	2a	1798	1/1	0.64	0.07	85,85,85,85	0
56	MG	1A	4084	1/1	0.64	0.45	94,94,94,94	0
56	MG	2w	104	1/1	0.64	0.17	73,73,73,73	0
56	MG	1a	1703	1/1	0.64	0.38	81,81,81,81	0
56	MG	2A	3725	1/1	0.64	0.13	76,76,76,76	0
56	MG	2A	3876	1/1	0.65	0.20	61,61,61,61	0
56	MG	2a	1769	1/1	0.65	0.12	76,76,76,76	0
56	MG	2A	3257	1/1	0.65	0.23	69,69,69,69	0
56	MG	2A	3368	1/1	0.65	0.22	69,69,69,69	0
56	MG	2A	3796	1/1	0.65	0.18	71,71,71,71	0
56	MG	2A	3179	1/1	0.65	0.14	44,44,44,44	0
56	MG	2A	3399	1/1	0.65	0.18	60,60,60,60	0
56	MG	1A	4014	1/1	0.65	0.10	69,69,69,69	0
56	MG	2y	3004	1/1	0.65	0.18	86,86,86,86	0
56	MG	1A	3922	1/1	0.66	0.26	54,54,54,54	0
56	MG	1A	3534	1/1	0.66	0.31	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2A	3370	1/1	0.66	1.20	71,71,71,71	0
56	MG	2A	3193	1/1	0.66	0.19	70,70,70,70	0
56	MG	1A	4124	1/1	0.66	0.24	86,86,86,86	0
56	MG	2A	3056	1/1	0.66	0.18	56,56,56,56	0
56	MG	1A	4033	1/1	0.66	0.26	80,80,80,80	0
56	MG	1A	3437	1/1	0.67	0.32	60,60,60,60	0
56	MG	2a	1756	1/1	0.67	0.12	95,95,95,95	0
56	MG	2a	1662	1/1	0.67	0.17	81,81,81,81	0
56	MG	17	102	1/1	0.67	0.26	70,70,70,70	0
56	MG	1A	4212	1/1	0.67	0.21	53,53,53,53	0
56	MG	2F	301	1/1	0.68	0.57	66,66,66,66	0
56	MG	25	105	1/1	0.68	0.46	81,81,81,81	0
56	MG	2a	1603	1/1	0.68	0.16	70,70,70,70	0
56	MG	2a	1749	1/1	0.68	0.16	68,68,68,68	0
56	MG	2A	3697	1/1	0.68	0.11	43,43,43,43	0
56	MG	1A	3053	1/1	0.68	0.22	61,61,61,61	0
56	MG	1A	3270	1/1	0.68	0.15	67,67,67,67	0
56	MG	1A	3975	1/1	0.68	0.06	90,90,90,90	0
56	MG	1A	4042	1/1	0.68	0.24	74,74,74,74	0
56	MG	1w	110	1/1	0.68	0.16	85,85,85,85	0
56	MG	2w	102	1/1	0.68	0.15	81,81,81,81	0
56	MG	2A	3385	1/1	0.68	0.28	70,70,70,70	0
56	MG	1a	1669	1/1	0.68	0.16	60,60,60,60	0
56	MG	2A	3038	1/1	0.68	0.16	61,61,61,61	0
56	MG	2A	3912	1/1	0.68	0.27	88,88,88,88	0
56	MG	1A	3541	1/1	0.69	0.18	58,58,58,58	0
56	MG	1a	1670	1/1	0.69	0.22	72,72,72,72	0
56	MG	1A	3434	1/1	0.69	0.86	56,56,56,56	0
56	MG	2a	1735	1/1	0.69	0.36	72,72,72,72	0
56	MG	2a	1736	1/1	0.69	0.23	69,69,69,69	0
56	MG	1A	3229	1/1	0.69	0.29	56,56,56,56	0
56	MG	2A	3559	1/1	0.69	0.10	43,43,43,43	0
56	MG	1A	3314	1/1	0.69	0.19	60,60,60,60	0
56	MG	2A	3215	1/1	0.69	0.12	78,78,78,78	0
56	MG	1A	3131	1/1	0.69	0.29	55,55,55,55	0
56	MG	1A	3416	1/1	0.69	0.33	78,78,78,78	0
56	MG	2A	3268	1/1	0.69	0.27	75,75,75,75	0
56	MG	2a	1810	1/1	0.69	0.14	74,74,74,74	0
56	MG	2A	3290	1/1	0.69	0.14	59,59,59,59	0
56	MG	2a	1647	1/1	0.69	0.25	63,63,63,63	0
56	MG	2A	3347	1/1	0.69	0.13	58,58,58,58	0
56	MG	1A	3933	1/1	0.69	0.17	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3825	1/1	0.69	0.11	43,43,43,43	0
56	MG	2A	3835	1/1	0.69	0.12	88,88,88,88	0
56	MG	1A	3359	1/1	0.70	0.28	66,66,66,66	0
56	MG	2A	3282	1/1	0.70	0.18	67,67,67,67	0
56	MG	1A	3266	1/1	0.70	0.12	64,64,64,64	0
56	MG	1A	3976	1/1	0.70	0.10	75,75,75,75	0
56	MG	1a	1654	1/1	0.70	0.19	81,81,81,81	0
56	MG	1A	3629	1/1	0.70	0.30	72,72,72,72	0
56	MG	2A	3913	1/1	0.70	0.15	68,68,68,68	0
56	MG	2E	304	1/1	0.70	0.26	72,72,72,72	0
56	MG	1A	3454	1/1	0.70	0.46	55,55,55,55	0
56	MG	2A	3073	1/1	0.70	0.14	57,57,57,57	0
56	MG	1A	3122	1/1	0.70	0.27	60,60,60,60	0
56	MG	2A	3482	1/1	0.70	0.30	71,71,71,71	0
56	MG	1A	4129	1/1	0.70	0.21	76,76,76,76	0
56	MG	1a	1708	1/1	0.70	0.21	66,66,66,66	0
56	MG	1A	4039	1/1	0.70	0.13	80,80,80,80	0
56	MG	1a	1842	1/1	0.70	0.08	56,56,56,56	0
56	MG	1A	3484	1/1	0.70	0.18	73,73,73,73	0
56	MG	1A	4051	1/1	0.70	0.11	93,93,93,93	0
56	MG	1A	3898	1/1	0.70	0.15	72,72,72,72	0
56	MG	1A	3276	1/1	0.70	0.14	65,65,65,65	0
56	MG	1A	3998	1/1	0.71	0.09	57,57,57,57	0
56	MG	1A	3585	1/1	0.71	0.14	68,68,68,68	0
56	MG	2A	3264	1/1	0.71	0.40	63,63,63,63	0
56	MG	1A	3423	1/1	0.71	0.20	59,59,59,59	0
56	MG	2A	3713	1/1	0.71	0.15	66,66,66,66	0
56	MG	1A	3327	1/1	0.71	0.36	65,65,65,65	0
56	MG	2A	3746	1/1	0.71	0.11	58,58,58,58	0
56	MG	1a	1862	1/1	0.71	0.11	59,59,59,59	0
56	MG	2A	3343	1/1	0.71	1.02	63,63,63,63	0
56	MG	2a	1782	1/1	0.71	0.11	86,86,86,86	0
56	MG	1A	4088	1/1	0.71	0.10	89,89,89,89	0
56	MG	1a	1672	1/1	0.71	0.19	71,71,71,71	0
56	MG	1A	3457	1/1	0.71	0.16	69,69,69,69	0
56	MG	1A	3190	1/1	0.71	0.29	67,67,67,67	0
56	MG	2a	1665	1/1	0.71	0.54	90,90,90,90	0
56	MG	1A	3988	1/1	0.71	0.13	65,65,65,65	0
56	MG	2a	1669	1/1	0.71	0.10	75,75,75,75	0
56	MG	1x	112	1/1	0.71	0.15	77,77,77,77	0
56	MG	2A	3245	1/1	0.71	0.38	56,56,56,56	0
56	MG	2A	3214	1/1	0.72	0.25	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1A	3093	1/1	0.72	0.12	50,50,50,50	0
56	MG	2A	3492	1/1	0.72	0.14	68,68,68,68	0
56	MG	1A	3578	1/1	0.72	0.21	54,54,54,54	0
56	MG	2a	1657	1/1	0.72	0.22	67,67,67,67	0
56	MG	1A	3366	1/1	0.72	0.19	61,61,61,61	0
56	MG	1A	3149	1/1	0.72	0.53	51,51,51,51	0
56	MG	1A	3380	1/1	0.72	0.25	56,56,56,56	0
56	MG	1A	3215	1/1	0.72	0.15	51,51,51,51	0
56	MG	2A	3278	1/1	0.72	0.27	64,64,64,64	0
56	MG	1A	4012	1/1	0.73	0.10	57,57,57,57	0
56	MG	1w	103	1/1	0.73	0.16	79,79,79,79	0
56	MG	2a	1695	1/1	0.73	0.11	67,67,67,67	0
56	MG	1a	1712	1/1	0.73	0.18	83,83,83,83	0
56	MG	2A	3851	1/1	0.73	0.17	46,46,46,46	0
56	MG	2A	3387	1/1	0.73	0.18	54,54,54,54	0
56	MG	2A	3231	1/1	0.73	0.14	58,58,58,58	0
56	MG	2a	1731	1/1	0.73	0.28	80,80,80,80	0
56	MG	2A	3420	1/1	0.73	0.28	60,60,60,60	0
56	MG	2A	3458	1/1	0.73	0.17	57,57,57,57	0
56	MG	1a	1724	1/1	0.73	0.21	74,74,74,74	0
56	MG	1a	1824	1/1	0.73	0.06	75,75,75,75	0
56	MG	2A	3502	1/1	0.73	0.10	69,69,69,69	0
56	MG	1A	3617	1/1	0.73	0.24	80,80,80,80	0
56	MG	2a	1767	1/1	0.73	0.10	99,99,99,99	0
56	MG	1A	3981	1/1	0.73	0.10	53,53,53,53	0
56	MG	2A	3694	1/1	0.73	0.17	63,63,63,63	0
56	MG	1A	4035	1/1	0.73	0.12	79,79,79,79	0
56	MG	2a	1629	1/1	0.73	0.83	88,88,88,88	0
56	MG	1B	3006	1/1	0.73	0.12	70,70,70,70	0
56	MG	2a	1845	1/1	0.73	0.18	74,74,74,74	0
56	MG	1A	3363	1/1	0.73	0.15	66,66,66,66	0
56	MG	1A	3414	1/1	0.73	0.44	62,62,62,62	0
56	MG	2A	3331	1/1	0.73	0.22	67,67,67,67	0
56	MG	1E	308	1/1	0.73	0.21	69,69,69,69	0
56	MG	2A	3197	1/1	0.73	0.11	60,60,60,60	0
56	MG	1a	1705	1/1	0.73	0.21	60,60,60,60	0
56	MG	2y	3005	1/1	0.73	0.11	94,94,94,94	0
56	MG	2A	3032	1/1	0.74	0.14	47,47,47,47	0
56	MG	2A	3213	1/1	0.74	0.11	58,58,58,58	0
56	MG	2A	3295	1/1	0.74	0.17	50,50,50,50	0
56	MG	2A	3317	1/1	0.74	0.16	64,64,64,64	0
56	MG	2A	3330	1/1	0.74	0.25	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3551	1/1	0.74	0.23	61,61,61,61	0
56	MG	1A	3740	1/1	0.74	0.16	71,71,71,71	0
56	MG	2a	1658	1/1	0.74	0.21	81,81,81,81	0
56	MG	2A	3910	1/1	0.74	0.62	76,76,76,76	0
56	MG	1A	3260	1/1	0.74	0.24	64,64,64,64	0
56	MG	1a	1838	1/1	0.74	0.12	61,61,61,61	0
56	MG	1w	102	1/1	0.74	0.15	78,78,78,78	0
56	MG	1A	4005	1/1	0.74	0.11	54,54,54,54	0
56	MG	2R	203	1/1	0.74	0.16	54,54,54,54	0
56	MG	20	101	1/1	0.74	0.12	71,71,71,71	0
56	MG	1A	3386	1/1	0.74	0.60	60,60,60,60	0
56	MG	1A	3787	1/1	0.74	0.16	53,53,53,53	0
56	MG	2A	3396	1/1	0.74	0.14	58,58,58,58	0
56	MG	1A	4031	1/1	0.74	0.10	76,76,76,76	0
56	MG	1A	4156	1/1	0.75	0.16	71,71,71,71	0
56	MG	1A	4196	1/1	0.75	0.21	64,64,64,64	0
56	MG	2a	1730	1/1	0.75	0.13	76,76,76,76	0
56	MG	1A	3755	1/1	0.75	0.13	34,34,34,34	0
56	MG	2A	3341	1/1	0.75	0.89	59,59,59,59	0
56	MG	1A	4036	1/1	0.75	0.12	84,84,84,84	0
56	MG	1A	3478	1/1	0.75	0.15	71,71,71,71	0
56	MG	1A	3777	1/1	0.75	0.13	59,59,59,59	0
56	MG	1B	3011	1/1	0.75	0.42	78,78,78,78	0
56	MG	1A	3528	1/1	0.75	0.38	67,67,67,67	0
56	MG	1a	1751	1/1	0.75	0.18	70,70,70,70	0
56	MG	1a	1772	1/1	0.75	0.19	68,68,68,68	0
56	MG	2A	3812	1/1	0.75	0.15	51,51,51,51	0
56	MG	1A	4044	1/1	0.75	0.08	55,55,55,55	0
56	MG	1A	4027	1/1	0.75	0.18	66,66,66,66	0
56	MG	2A	3837	1/1	0.75	0.32	75,75,75,75	0
56	MG	2a	1822	1/1	0.75	0.15	66,66,66,66	0
56	MG	1A	3329	1/1	0.75	0.18	59,59,59,59	0
56	MG	1a	1630	1/1	0.75	0.16	65,65,65,65	0
56	MG	1A	3480	1/1	0.75	0.22	64,64,64,64	0
56	MG	2A	3892	1/1	0.75	0.12	39,39,39,39	0
56	MG	1A	4058	1/1	0.75	0.24	74,74,74,74	0
56	MG	1a	1847	1/1	0.75	0.09	79,79,79,79	0
56	MG	2x	103	1/1	0.75	0.16	77,77,77,77	0
56	MG	2A	3300	1/1	0.75	0.14	68,68,68,68	0
56	MG	2B	3008	1/1	0.75	0.15	69,69,69,69	0
56	MG	1a	1875	1/1	0.76	0.10	83,83,83,83	0
56	MG	1A	3854	1/1	0.76	0.16	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4015	1/1	0.76	0.09	62,62,62,62	0
56	MG	2a	1718	1/1	0.76	0.15	66,66,66,66	0
56	MG	2A	3456	1/1	0.76	0.27	62,62,62,62	0
56	MG	1A	3504	1/1	0.76	0.08	66,66,66,66	0
56	MG	1A	3908	1/1	0.76	0.17	67,67,67,67	0
56	MG	1A	3415	1/1	0.76	0.16	68,68,68,68	0
56	MG	1A	3356	1/1	0.76	0.33	65,65,65,65	0
56	MG	1a	1746	1/1	0.76	0.25	70,70,70,70	0
56	MG	2A	3633	1/1	0.76	0.15	47,47,47,47	0
56	MG	1A	3476	1/1	0.76	0.17	57,57,57,57	0
56	MG	2A	3689	1/1	0.76	0.21	52,52,52,52	0
56	MG	1A	4121	1/1	0.76	0.11	54,54,54,54	0
56	MG	1Q	204	1/1	0.76	0.14	56,56,56,56	0
56	MG	2A	3065	1/1	0.76	0.34	58,58,58,58	0
56	MG	1A	3145	1/1	0.76	0.24	52,52,52,52	0
56	MG	2A	3718	1/1	0.76	0.18	61,61,61,61	0
56	MG	2A	3092	1/1	0.76	0.65	53,53,53,53	0
56	MG	1A	3304	1/1	0.76	0.23	58,58,58,58	0
56	MG	2a	1633	1/1	0.76	0.26	76,76,76,76	0
56	MG	1a	1839	1/1	0.76	0.06	88,88,88,88	0
56	MG	1A	3397	1/1	0.76	0.13	63,63,63,63	0
56	MG	1A	3286	1/1	0.76	0.22	59,59,59,59	0
56	MG	1a	1659	1/1	0.76	0.12	65,65,65,65	0
56	MG	2A	3811	1/1	0.76	0.23	56,56,56,56	0
56	MG	1A	3591	1/1	0.76	0.21	51,51,51,51	0
56	MG	1A	4151	1/1	0.76	0.27	51,51,51,51	0
56	MG	1A	3788	1/1	0.76	0.26	80,80,80,80	0
56	MG	1a	1691	1/1	0.76	0.32	69,69,69,69	0
56	MG	2A	3845	1/1	0.77	0.11	54,54,54,54	0
56	MG	2A	3165	1/1	0.77	0.15	48,48,48,48	0
56	MG	1A	3974	1/1	0.77	0.10	38,38,38,38	0
56	MG	1A	3439	1/1	0.77	0.15	55,55,55,55	0
56	MG	2A	3557	1/1	0.77	0.12	34,34,34,34	0
56	MG	1A	3522	1/1	0.77	0.18	64,64,64,64	0
56	MG	2A	3325	1/1	0.77	0.68	53,53,53,53	0
56	MG	2A	3660	1/1	0.77	0.18	66,66,66,66	0
56	MG	2A	3922	1/1	0.77	0.13	38,38,38,38	0
56	MG	1a	1766	1/1	0.77	0.14	67,67,67,67	0
56	MG	1A	3745	1/1	0.77	0.21	37,37,37,37	0
56	MG	2a	1737	1/1	0.77	0.34	64,64,64,64	0
56	MG	1A	3016	1/1	0.77	0.21	61,61,61,61	0
56	MG	1a	1826	1/1	0.77	0.19	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4132	1/1	0.77	0.68	62,62,62,62	0
56	MG	1a	1676	1/1	0.77	0.35	80,80,80,80	0
56	MG	2A	3227	1/1	0.77	0.43	66,66,66,66	0
56	MG	1A	4137	1/1	0.77	0.13	67,67,67,67	0
56	MG	2A	3384	1/1	0.77	0.29	64,64,64,64	0
56	MG	1B	3028	1/1	0.77	0.18	82,82,82,82	0
56	MG	1a	1702	1/1	0.77	0.23	92,92,92,92	0
56	MG	1A	3357	1/1	0.77	0.17	59,59,59,59	0
56	MG	1A	3365	1/1	0.77	0.23	59,59,59,59	0
56	MG	2a	1644	1/1	0.77	0.22	70,70,70,70	0
56	MG	2A	3403	1/1	0.77	0.19	63,63,63,63	0
56	MG	2A	3411	1/1	0.77	1.04	63,63,63,63	0
56	MG	2w	103	1/1	0.77	0.43	75,75,75,75	0
56	MG	2A	3813	1/1	0.77	0.14	68,68,68,68	0
56	MG	2A	3823	1/1	0.77	0.23	54,54,54,54	0
56	MG	1A	3489	1/1	0.77	0.31	49,49,49,49	0
56	MG	1A	3958	1/1	0.77	0.16	51,51,51,51	0
56	MG	2A	3124	1/1	0.77	0.16	58,58,58,58	0
56	MG	2A	3840	1/1	0.77	0.06	64,64,64,64	0
56	MG	2y	3007	1/1	0.77	0.14	82,82,82,82	0
56	MG	1A	3144	1/1	0.78	0.21	64,64,64,64	0
56	MG	2A	3099	1/1	0.78	0.22	71,71,71,71	0
56	MG	2a	1661	1/1	0.78	0.13	69,69,69,69	0
56	MG	2A	3423	1/1	0.78	0.20	77,77,77,77	0
56	MG	2A	3829	1/1	0.78	0.11	50,50,50,50	0
56	MG	1a	1860	1/1	0.78	0.09	92,92,92,92	0
56	MG	1A	4017	1/1	0.78	0.15	53,53,53,53	0
56	MG	2A	3839	1/1	0.78	0.12	62,62,62,62	0
56	MG	1A	4057	1/1	0.78	0.42	90,90,90,90	0
56	MG	2A	3491	1/1	0.78	0.30	61,61,61,61	0
56	MG	1A	3256	1/1	0.78	0.13	61,61,61,61	0
56	MG	2A	3859	1/1	0.78	0.07	49,49,49,49	0
56	MG	18	101	1/1	0.78	0.41	84,84,84,84	0
56	MG	2A	3512	1/1	0.78	0.26	68,68,68,68	0
56	MG	1a	1604	1/1	0.78	0.14	68,68,68,68	0
56	MG	2A	3327	1/1	0.78	0.21	54,54,54,54	0
56	MG	2A	3194	1/1	0.78	0.26	63,63,63,63	0
56	MG	1a	1605	1/1	0.78	0.12	63,63,63,63	0
56	MG	2A	3340	1/1	0.78	0.34	74,74,74,74	0
56	MG	2B	3002	1/1	0.78	0.14	67,67,67,67	0
56	MG	2A	3199	1/1	0.78	0.19	56,56,56,56	0
56	MG	2a	1753	1/1	0.78	0.12	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3018	1/1	0.78	0.17	42,42,42,42	0
56	MG	2a	1759	1/1	0.78	0.16	91,91,91,91	0
56	MG	2a	1761	1/1	0.78	0.27	86,86,86,86	0
56	MG	2A	3346	1/1	0.78	0.14	63,63,63,63	0
56	MG	1A	4081	1/1	0.78	0.21	84,84,84,84	0
56	MG	2A	3706	1/1	0.78	0.15	51,51,51,51	0
56	MG	23	101	1/1	0.78	0.64	57,57,57,57	0
56	MG	25	102	1/1	0.78	0.12	60,60,60,60	0
56	MG	2A	3359	1/1	0.78	0.11	59,59,59,59	0
56	MG	1A	3367	1/1	0.78	0.13	66,66,66,66	0
56	MG	2a	1833	1/1	0.78	0.15	79,79,79,79	0
56	MG	1x	105	1/1	0.78	0.18	65,65,65,65	0
56	MG	2A	3741	1/1	0.78	0.15	59,59,59,59	0
56	MG	1A	3315	1/1	0.78	0.15	68,68,68,68	0
56	MG	2a	1627	1/1	0.78	0.15	74,74,74,74	0
56	MG	2A	3774	1/1	0.78	0.13	62,62,62,62	0
56	MG	1A	3825	1/1	0.78	0.20	24,24,24,24	0
56	MG	1A	3718	1/1	0.78	0.15	60,60,60,60	0
56	MG	1A	3325	1/1	0.78	0.29	51,51,51,51	0
56	MG	1A	3899	1/1	0.78	0.13	61,61,61,61	0
56	MG	1A	3565	1/1	0.78	0.11	60,60,60,60	0
56	MG	1A	3464	1/1	0.78	0.10	69,69,69,69	0
56	MG	2A	3283	1/1	0.79	0.29	57,57,57,57	0
56	MG	2A	3931	1/1	0.79	0.39	44,44,44,44	0
56	MG	1A	3630	1/1	0.79	0.29	60,60,60,60	0
56	MG	2A	3729	1/1	0.79	0.65	66,66,66,66	0
56	MG	1A	3947	1/1	0.79	0.23	49,49,49,49	0
56	MG	2A	3417	1/1	0.79	0.17	56,56,56,56	0
56	MG	2A	3764	1/1	0.79	0.10	63,63,63,63	0
56	MG	1A	3563	1/1	0.79	0.12	67,67,67,67	0
56	MG	1A	3653	1/1	0.79	0.17	62,62,62,62	0
56	MG	2A	3320	1/1	0.79	0.18	64,64,64,64	0
56	MG	1A	4104	1/1	0.79	0.41	81,81,81,81	0
56	MG	2A	3476	1/1	0.79	0.28	70,70,70,70	0
56	MG	2A	3202	1/1	0.79	0.12	56,56,56,56	0
56	MG	1A	3210	1/1	0.79	0.21	55,55,55,55	0
56	MG	1a	1623	1/1	0.79	0.13	49,49,49,49	0
56	MG	1B	3002	1/1	0.79	0.24	58,58,58,58	0
56	MG	1a	1735	1/1	0.79	0.20	50,50,50,50	0
56	MG	1A	3378	1/1	0.79	0.35	68,68,68,68	0
56	MG	2a	1783	1/1	0.79	0.07	87,87,87,87	0
56	MG	2a	1787	1/1	0.79	0.15	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3079	1/1	0.79	0.13	62,62,62,62	0
56	MG	2A	3836	1/1	0.79	0.09	74,74,74,74	0
56	MG	2A	3562	1/1	0.79	0.13	40,40,40,40	0
56	MG	2a	1811	1/1	0.79	0.17	83,83,83,83	0
56	MG	2A	3571	1/1	0.79	0.13	42,42,42,42	0
56	MG	1A	3173	1/1	0.79	0.19	66,66,66,66	0
56	MG	2A	3095	1/1	0.79	0.13	58,58,58,58	0
56	MG	2A	3846	1/1	0.79	0.17	65,65,65,65	0
56	MG	2A	3248	1/1	0.79	0.28	54,54,54,54	0
56	MG	2A	3681	1/1	0.79	0.11	45,45,45,45	0
56	MG	1a	1874	1/1	0.79	0.20	55,55,55,55	0
56	MG	1A	3257	1/1	0.79	0.28	40,40,40,40	0
56	MG	1A	3023	1/1	0.79	0.15	59,59,59,59	0
56	MG	2a	1682	1/1	0.79	0.17	70,70,70,70	0
56	MG	1A	4075	1/1	0.79	0.15	33,33,33,33	0
56	MG	2A	3166	1/1	0.79	0.28	58,58,58,58	0
56	MG	1A	3411	1/1	0.79	0.14	67,67,67,67	0
58	CPT	1A	4179	4/5	0.79	0.59	54,72,88,231	4
56	MG	2a	1654	1/1	0.80	0.20	83,83,83,83	0
56	MG	2A	3090	1/1	0.80	0.10	57,57,57,57	0
56	MG	1A	3338	1/1	0.80	0.22	60,60,60,60	0
56	MG	1A	3956	1/1	0.80	0.14	62,62,62,62	0
56	MG	2A	3431	1/1	0.80	0.23	70,70,70,70	0
56	MG	2A	3451	1/1	0.80	0.14	59,59,59,59	0
56	MG	16	103	1/1	0.80	0.20	69,69,69,69	0
56	MG	1A	3607	1/1	0.80	0.13	64,64,64,64	0
56	MG	1a	1706	1/1	0.80	0.23	79,79,79,79	0
56	MG	2A	3292	1/1	0.80	1.00	58,58,58,58	0
56	MG	1A	3409	1/1	0.80	0.22	49,49,49,49	0
56	MG	1A	3254	1/1	0.80	0.34	61,61,61,61	0
56	MG	2A	3501	1/1	0.80	0.32	61,61,61,61	0
56	MG	2A	3302	1/1	0.80	0.26	67,67,67,67	0
56	MG	2A	3303	1/1	0.80	0.19	63,63,63,63	0
56	MG	2A	3515	1/1	0.80	0.10	50,50,50,50	0
56	MG	1a	1713	1/1	0.80	0.22	73,73,73,73	0
56	MG	2A	3867	1/1	0.80	0.11	66,66,66,66	0
56	MG	2A	3875	1/1	0.80	0.05	68,68,68,68	0
56	MG	1A	3562	1/1	0.80	0.15	60,60,60,60	0
56	MG	2A	3191	1/1	0.80	0.20	63,63,63,63	0
56	MG	2A	3326	1/1	0.80	0.47	69,69,69,69	0
56	MG	2A	3588	1/1	0.80	0.12	36,36,36,36	0
56	MG	2A	3625	1/1	0.80	0.16	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3446	1/1	0.80	0.17	67,67,67,67	0
56	MG	2A	3328	1/1	0.80	0.21	66,66,66,66	0
56	MG	2A	3661	1/1	0.80	0.18	53,53,53,53	0
56	MG	2A	3944	1/1	0.80	0.23	58,58,58,58	0
56	MG	2a	1764	1/1	0.80	0.26	89,89,89,89	0
56	MG	1A	3525	1/1	0.80	0.31	39,39,39,39	0
56	MG	1A	3892	1/1	0.80	0.33	55,55,55,55	0
56	MG	2B	3013	1/1	0.80	0.18	77,77,77,77	0
56	MG	1a	1756	1/1	0.80	0.26	75,75,75,75	0
56	MG	1A	3717	1/1	0.80	0.18	30,30,30,30	0
56	MG	2P	203	1/1	0.80	0.15	56,56,56,56	0
56	MG	2A	3203	1/1	0.80	0.17	53,53,53,53	0
56	MG	2S	201	1/1	0.80	0.23	83,83,83,83	0
56	MG	1A	3575	1/1	0.80	0.23	63,63,63,63	0
56	MG	1a	1792	1/1	0.80	0.18	57,57,57,57	0
56	MG	1B	3023	1/1	0.80	0.08	66,66,66,66	0
56	MG	1y	105	1/1	0.80	0.12	88,88,88,88	0
56	MG	1A	3576	1/1	0.80	0.19	69,69,69,69	0
56	MG	2v	104	1/1	0.80	0.12	70,70,70,70	0
56	MG	1A	3451	1/1	0.80	0.21	46,46,46,46	0
56	MG	1a	1682	1/1	0.80	0.16	72,72,72,72	0
56	MG	2A	3242	1/1	0.80	0.38	61,61,61,61	0
56	MG	1a	1686	1/1	0.80	0.22	67,67,67,67	0
56	MG	2A	3769	1/1	0.80	0.10	58,58,58,58	0
56	MG	1a	1841	1/1	0.80	0.17	50,50,50,50	0
56	MG	1A	3294	1/1	0.80	0.26	66,66,66,66	0
56	MG	2A	3802	1/1	0.80	0.10	62,62,62,62	0
56	MG	2y	3006	1/1	0.80	0.15	104,104,104,104	0
56	MG	2A	3084	1/1	0.80	0.26	46,46,46,46	0
56	MG	2A	3261	1/1	0.80	0.33	72,72,72,72	0
56	MG	1A	3420	1/1	0.81	0.09	65,65,65,65	0
56	MG	2A	3389	1/1	0.81	0.11	59,59,59,59	0
56	MG	2a	1677	1/1	0.81	0.15	76,76,76,76	0
56	MG	1A	3490	1/1	0.81	0.17	48,48,48,48	0
56	MG	2a	1692	1/1	0.81	0.17	73,73,73,73	0
56	MG	1B	3034	1/1	0.81	0.25	82,82,82,82	0
56	MG	2A	3887	1/1	0.81	0.15	50,50,50,50	0
56	MG	2A	3889	1/1	0.81	0.10	62,62,62,62	0
56	MG	1A	3498	1/1	0.81	0.20	52,52,52,52	0
56	MG	1x	110	1/1	0.81	0.19	71,71,71,71	0
56	MG	2A	3701	1/1	0.81	0.10	51,51,51,51	0
56	MG	2A	3704	1/1	0.81	0.18	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1G	3005	1/1	0.81	0.17	69,69,69,69	0
56	MG	1A	4091	1/1	0.81	0.10	71,71,71,71	0
56	MG	2A	3938	1/1	0.81	0.36	81,81,81,81	0
56	MG	2A	3422	1/1	0.81	0.28	67,67,67,67	0
56	MG	1A	3837	1/1	0.81	0.22	33,33,33,33	0
56	MG	2B	3003	1/1	0.81	0.32	75,75,75,75	0
56	MG	2A	3307	1/1	0.81	0.11	59,59,59,59	0
56	MG	2A	3739	1/1	0.81	0.10	56,56,56,56	0
56	MG	1I	104	1/1	0.81	0.19	66,66,66,66	0
56	MG	1A	3547	1/1	0.81	0.19	50,50,50,50	0
56	MG	1A	3864	1/1	0.81	0.11	51,51,51,51	0
56	MG	1A	3268	1/1	0.81	0.20	64,64,64,64	0
56	MG	1B	3004	1/1	0.81	0.28	67,67,67,67	0
56	MG	2A	3487	1/1	0.81	0.33	65,65,65,65	0
56	MG	1A	3766	1/1	0.81	0.18	64,64,64,64	0
56	MG	1a	1856	1/1	0.81	0.16	63,63,63,63	0
56	MG	2A	3241	1/1	0.81	0.11	53,53,53,53	0
56	MG	2a	1789	1/1	0.81	0.27	76,76,76,76	0
56	MG	2a	1602	1/1	0.81	0.14	75,75,75,75	0
56	MG	2A	3339	1/1	0.81	0.21	64,64,64,64	0
56	MG	2a	1604	1/1	0.81	0.16	80,80,80,80	0
56	MG	1a	1610	1/1	0.81	0.27	60,60,60,60	0
56	MG	1A	3306	1/1	0.81	0.23	38,38,38,38	0
56	MG	2A	3551	1/1	0.81	0.13	63,63,63,63	0
56	MG	2A	3817	1/1	0.81	0.05	53,53,53,53	0
56	MG	1a	1716	1/1	0.81	0.13	75,75,75,75	0
56	MG	1a	1627	1/1	0.81	0.11	51,51,51,51	0
56	MG	1A	3903	1/1	0.81	0.14	53,53,53,53	0
56	MG	2A	3830	1/1	0.81	0.62	71,71,71,71	0
56	MG	1a	1643	1/1	0.81	0.11	59,59,59,59	0
56	MG	1A	3389	1/1	0.81	0.12	53,53,53,53	0
56	MG	2A	3616	1/1	0.81	0.17	36,36,36,36	0
56	MG	1I	202	1/1	0.81	0.14	82,82,82,82	0
56	MG	2A	3269	1/1	0.81	0.42	69,69,69,69	0
56	MG	2A	3635	1/1	0.81	0.17	73,73,73,73	0
56	MG	2A	3656	1/1	0.81	0.19	45,45,45,45	0
56	MG	2A	3276	1/1	0.81	0.28	66,66,66,66	0
56	MG	1B	3024	1/1	0.81	0.14	69,69,69,69	0
56	MG	2A	3426	1/1	0.82	0.14	52,52,52,52	0
56	MG	1A	3612	1/1	0.82	0.11	67,67,67,67	0
56	MG	1A	4130	1/1	0.82	0.37	85,85,85,85	0
56	MG	1a	1726	1/1	0.82	0.14	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3055	1/1	0.82	0.17	53,53,53,53	0
56	MG	2A	3469	1/1	0.82	0.13	67,67,67,67	0
56	MG	2a	1660	1/1	0.82	0.15	64,64,64,64	0
56	MG	2A	3471	1/1	0.82	0.15	58,58,58,58	0
56	MG	1a	1743	1/1	0.82	0.21	77,77,77,77	0
56	MG	1A	3511	1/1	0.82	0.14	58,58,58,58	0
56	MG	2a	1666	1/1	0.82	0.25	69,69,69,69	0
56	MG	1A	3333	1/1	0.82	0.14	44,44,44,44	0
56	MG	1a	1753	1/1	0.82	0.33	73,73,73,73	0
56	MG	1A	3360	1/1	0.82	0.15	64,64,64,64	0
56	MG	2A	3497	1/1	0.82	0.14	53,53,53,53	0
56	MG	1a	1761	1/1	0.82	0.28	71,71,71,71	0
56	MG	1A	3648	1/1	0.82	0.24	41,41,41,41	0
56	MG	1A	3651	1/1	0.82	0.17	61,61,61,61	0
56	MG	2a	1702	1/1	0.82	0.11	72,72,72,72	0
56	MG	1a	1791	1/1	0.82	0.16	88,88,88,88	0
56	MG	2A	3550	1/1	0.82	0.16	47,47,47,47	0
56	MG	1A	4166	1/1	0.82	0.10	56,56,56,56	0
56	MG	1a	1819	1/1	0.82	0.17	63,63,63,63	0
56	MG	1A	4175	1/1	0.82	0.22	72,72,72,72	0
56	MG	1A	3856	1/1	0.82	0.13	67,67,67,67	0
56	MG	1a	1829	1/1	0.82	0.25	73,73,73,73	0
56	MG	1A	4060	1/1	0.82	0.17	48,48,48,48	0
56	MG	2A	3605	1/1	0.82	0.13	70,70,70,70	0
56	MG	2a	1738	1/1	0.82	0.18	61,61,61,61	0
56	MG	1A	3862	1/1	0.82	0.12	73,73,73,73	0
56	MG	2a	1744	1/1	0.82	0.20	66,66,66,66	0
56	MG	1a	1655	1/1	0.82	0.11	56,56,56,56	0
56	MG	2A	3629	1/1	0.82	0.17	33,33,33,33	0
56	MG	1a	1658	1/1	0.82	0.09	79,79,79,79	0
56	MG	1A	3429	1/1	0.82	0.34	59,59,59,59	0
56	MG	2A	3334	1/1	0.82	0.25	65,65,65,65	0
56	MG	1a	1843	1/1	0.82	0.09	81,81,81,81	0
56	MG	1A	3684	1/1	0.82	0.11	33,33,33,33	0
56	MG	1A	3533	1/1	0.82	0.25	50,50,50,50	0
56	MG	1A	3300	1/1	0.82	0.27	54,54,54,54	0
56	MG	2a	1778	1/1	0.82	0.06	83,83,83,83	0
56	MG	1a	1675	1/1	0.82	0.45	70,70,70,70	0
56	MG	1A	4018	1/1	0.82	0.11	45,45,45,45	0
56	MG	2A	3348	1/1	0.82	0.12	75,75,75,75	0
56	MG	2B	3014	1/1	0.82	0.18	75,75,75,75	0
56	MG	2a	1790	1/1	0.82	0.10	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3901	1/1	0.82	0.14	71,71,71,71	0
56	MG	1A	3579	1/1	0.82	0.20	54,54,54,54	0
56	MG	1a	1871	1/1	0.82	0.11	72,72,72,72	0
56	MG	1A	3364	1/1	0.82	0.13	70,70,70,70	0
56	MG	2A	3711	1/1	0.82	0.11	65,65,65,65	0
56	MG	1A	4106	1/1	0.82	0.08	50,50,50,50	0
56	MG	2a	1834	1/1	0.82	0.10	71,71,71,71	0
56	MG	2A	3222	1/1	0.82	0.27	58,58,58,58	0
56	MG	1A	4111	1/1	0.82	0.10	63,63,63,63	0
56	MG	2l	201	1/1	0.82	0.42	76,76,76,76	0
56	MG	2q	204	1/1	0.82	0.15	79,79,79,79	0
56	MG	2v	102	1/1	0.82	0.20	69,69,69,69	0
56	MG	1E	303	1/1	0.82	0.22	39,39,39,39	0
56	MG	1A	3495	1/1	0.82	0.34	47,47,47,47	0
56	MG	1A	3599	1/1	0.82	0.21	48,48,48,48	0
56	MG	1r	101	1/1	0.82	0.20	71,71,71,71	0
56	MG	2A	3749	1/1	0.82	0.12	70,70,70,70	0
56	MG	1O	3005	1/1	0.82	0.25	66,66,66,66	0
56	MG	2A	3251	1/1	0.82	0.17	69,69,69,69	0
56	MG	1A	3044	1/1	0.82	0.15	42,42,42,42	0
56	MG	2A	3780	1/1	0.82	0.36	63,63,63,63	0
56	MG	2A	3789	1/1	0.82	0.18	49,49,49,49	0
56	MG	2A	3256	1/1	0.82	0.46	58,58,58,58	0
56	MG	1T	202	1/1	0.82	0.17	59,59,59,59	0
56	MG	1a	1821	1/1	0.83	0.08	81,81,81,81	0
56	MG	1a	1663	1/1	0.83	0.11	66,66,66,66	0
56	MG	1A	3609	1/1	0.83	0.15	58,58,58,58	0
56	MG	1A	3497	1/1	0.83	0.09	55,55,55,55	0
56	MG	2A	3094	1/1	0.83	0.17	40,40,40,40	0
56	MG	1a	1830	1/1	0.83	0.10	79,79,79,79	0
56	MG	2A	3838	1/1	0.83	0.13	78,78,78,78	0
56	MG	1A	4120	1/1	0.83	0.16	52,52,52,52	0
56	MG	2A	3103	1/1	0.83	0.13	58,58,58,58	0
56	MG	2a	1688	1/1	0.83	0.47	72,72,72,72	0
56	MG	1A	3937	1/1	0.83	0.26	45,45,45,45	0
56	MG	2A	3560	1/1	0.83	0.08	43,43,43,43	0
56	MG	1A	3292	1/1	0.83	0.24	61,61,61,61	0
56	MG	2A	3127	1/1	0.83	0.19	56,56,56,56	0
56	MG	1A	3954	1/1	0.83	0.15	58,58,58,58	0
56	MG	2a	1716	1/1	0.83	0.22	66,66,66,66	0
56	MG	2A	3329	1/1	0.83	0.10	61,61,61,61	0
56	MG	1A	3623	1/1	0.83	0.17	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3879	1/1	0.83	0.07	42,42,42,42	0
56	MG	1A	3501	1/1	0.83	0.63	58,58,58,58	0
56	MG	1P	203	1/1	0.83	0.32	53,53,53,53	0
56	MG	2a	1734	1/1	0.83	0.19	68,68,68,68	0
56	MG	1a	1697	1/1	0.83	0.16	71,71,71,71	0
56	MG	1A	3390	1/1	0.83	0.19	51,51,51,51	0
56	MG	2A	3901	1/1	0.83	0.15	57,57,57,57	0
56	MG	1S	3003	1/1	0.83	0.24	74,74,74,74	0
56	MG	1A	3199	1/1	0.83	0.10	60,60,60,60	0
56	MG	1A	3514	1/1	0.83	0.15	67,67,67,67	0
56	MG	2A	3200	1/1	0.83	0.10	50,50,50,50	0
56	MG	1a	1864	1/1	0.83	0.10	61,61,61,61	0
56	MG	1A	3649	1/1	0.83	0.28	53,53,53,53	0
56	MG	1A	3313	1/1	0.83	0.14	60,60,60,60	0
56	MG	2a	1757	1/1	0.83	0.10	68,68,68,68	0
56	MG	1A	3992	1/1	0.83	0.07	51,51,51,51	0
56	MG	2A	3374	1/1	0.83	0.20	70,70,70,70	0
56	MG	2a	1763	1/1	0.83	0.18	85,85,85,85	0
56	MG	1A	3233	1/1	0.83	0.47	55,55,55,55	0
56	MG	2A	3382	1/1	0.83	0.17	52,52,52,52	0
56	MG	1a	1722	1/1	0.83	0.24	58,58,58,58	0
56	MG	1a	1723	1/1	0.83	0.15	65,65,65,65	0
56	MG	1a	1886	1/1	0.83	0.21	71,71,71,71	0
56	MG	1b	3001	1/1	0.83	0.15	75,75,75,75	0
56	MG	2Q	3002	1/1	0.83	0.16	44,44,44,44	0
56	MG	1A	4068	1/1	0.83	0.28	80,80,80,80	0
56	MG	1A	3299	1/1	0.83	0.10	61,61,61,61	0
56	MG	1a	1734	1/1	0.83	0.14	62,62,62,62	0
56	MG	1a	1608	1/1	0.83	0.24	66,66,66,66	0
56	MG	1A	3319	1/1	0.83	0.11	57,57,57,57	0
56	MG	1a	1614	1/1	0.83	0.18	76,76,76,76	0
56	MG	2a	1813	1/1	0.83	0.13	78,78,78,78	0
56	MG	2a	1817	1/1	0.83	0.10	73,73,73,73	0
56	MG	2a	1821	1/1	0.83	0.11	74,74,74,74	0
56	MG	28	101	1/1	0.83	0.18	54,54,54,54	0
56	MG	1A	3057	1/1	0.83	0.16	65,65,65,65	0
56	MG	2A	3766	1/1	0.83	0.19	58,58,58,58	0
56	MG	1A	4087	1/1	0.83	0.14	81,81,81,81	0
56	MG	1A	3596	1/1	0.83	0.38	69,69,69,69	0
56	MG	1A	3228	1/1	0.83	0.23	53,53,53,53	0
56	MG	1A	3456	1/1	0.83	0.32	48,48,48,48	0
56	MG	1A	3759	1/1	0.83	0.20	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1657	1/1	0.83	0.19	60,60,60,60	0
56	MG	2A	3271	1/1	0.83	0.18	62,62,62,62	0
56	MG	2A	3272	1/1	0.83	0.13	68,68,68,68	0
56	MG	2a	1635	1/1	0.83	0.17	62,62,62,62	0
56	MG	2A	3472	1/1	0.83	0.20	61,61,61,61	0
56	MG	2A	3053	1/1	0.83	0.15	64,64,64,64	0
56	MG	1B	3015	1/1	0.83	0.11	55,55,55,55	0
56	MG	2a	1648	1/1	0.83	0.10	80,80,80,80	0
56	MG	2A	3064	1/1	0.83	0.12	74,74,74,74	0
56	MG	1a	1801	1/1	0.83	0.16	67,67,67,67	0
56	MG	2A	3820	1/1	0.83	0.17	70,70,70,70	0
56	MG	1A	3920	1/1	0.83	0.15	52,52,52,52	0
56	MG	1a	1660	1/1	0.84	0.15	63,63,63,63	0
56	MG	2a	1681	1/1	0.84	0.09	54,54,54,54	0
56	MG	2A	3855	1/1	0.84	0.20	56,56,56,56	0
56	MG	1A	3222	1/1	0.84	0.20	51,51,51,51	0
56	MG	2A	3218	1/1	0.84	0.16	53,53,53,53	0
56	MG	2A	3630	1/1	0.84	0.12	49,49,49,49	0
56	MG	2A	3357	1/1	0.84	0.15	53,53,53,53	0
56	MG	1x	104	1/1	0.84	0.24	65,65,65,65	0
56	MG	2a	1704	1/1	0.84	0.22	71,71,71,71	0
56	MG	2A	3645	1/1	0.84	0.15	68,68,68,68	0
56	MG	2A	3224	1/1	0.84	0.13	64,64,64,64	0
56	MG	1a	1668	1/1	0.84	0.14	63,63,63,63	0
56	MG	1B	3033	1/1	0.84	0.34	82,82,82,82	0
56	MG	1A	3469	1/1	0.84	0.27	60,60,60,60	0
56	MG	1A	4050	1/1	0.84	0.16	30,30,30,30	0
56	MG	1A	3201	1/1	0.84	0.17	45,45,45,45	0
56	MG	1F	307	1/1	0.84	0.33	67,67,67,67	0
56	MG	1A	3626	1/1	0.84	0.17	49,49,49,49	0
56	MG	2A	3929	1/1	0.84	0.13	53,53,53,53	0
56	MG	1A	3996	1/1	0.84	0.14	52,52,52,52	0
56	MG	1A	3369	1/1	0.84	0.33	63,63,63,63	0
56	MG	2A	3058	1/1	0.84	0.18	65,65,65,65	0
56	MG	1A	4002	1/1	0.84	0.21	55,55,55,55	0
56	MG	1A	3320	1/1	0.84	0.17	52,52,52,52	0
56	MG	2A	3414	1/1	0.84	0.19	58,58,58,58	0
56	MG	2A	3265	1/1	0.84	0.61	70,70,70,70	0
56	MG	1A	3004	1/1	0.84	0.12	41,41,41,41	0
56	MG	1A	4013	1/1	0.84	0.26	53,53,53,53	0
56	MG	1A	3644	1/1	0.84	0.13	56,56,56,56	0
56	MG	1A	3548	1/1	0.84	0.26	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1A	4173	1/1	0.84	0.17	50,50,50,50	0
56	MG	1a	1709	1/1	0.84	0.22	62,62,62,62	0
56	MG	2A	3760	1/1	0.84	0.10	55,55,55,55	0
56	MG	1A	3924	1/1	0.84	0.12	45,45,45,45	0
56	MG	1A	3481	1/1	0.84	0.27	61,61,61,61	0
56	MG	1a	1859	1/1	0.84	0.15	65,65,65,65	0
56	MG	1A	3820	1/1	0.84	0.17	36,36,36,36	0
56	MG	2a	1785	1/1	0.84	0.08	89,89,89,89	0
56	MG	1A	3513	1/1	0.84	0.11	74,74,74,74	0
56	MG	1a	1863	1/1	0.84	0.06	63,63,63,63	0
56	MG	2A	3128	1/1	0.84	0.26	49,49,49,49	0
56	MG	2A	3798	1/1	0.84	0.32	56,56,56,56	0
56	MG	2a	1614	1/1	0.84	0.17	65,65,65,65	0
56	MG	2A	3155	1/1	0.84	0.10	47,47,47,47	0
56	MG	2A	3490	1/1	0.84	0.11	68,68,68,68	0
56	MG	1A	4223	1/1	0.84	0.18	35,35,35,35	0
56	MG	1A	3606	1/1	0.84	0.13	55,55,55,55	0
56	MG	2A	3496	1/1	0.84	0.23	58,58,58,58	0
56	MG	1B	3003	1/1	0.84	0.21	58,58,58,58	0
56	MG	1A	3852	1/1	0.84	0.16	52,52,52,52	0
56	MG	2A	3814	1/1	0.84	0.21	61,61,61,61	0
56	MG	1A	4093	1/1	0.84	0.12	49,49,49,49	0
56	MG	2A	3508	1/1	0.84	0.23	64,64,64,64	0
56	MG	1a	1740	1/1	0.84	0.18	72,72,72,72	0
56	MG	1A	3217	1/1	0.84	0.15	58,58,58,58	0
56	MG	2t	3001	1/1	0.84	0.14	54,54,54,54	0
56	MG	2a	1653	1/1	0.84	0.31	66,66,66,66	0
56	MG	2A	3826	1/1	0.84	0.26	56,56,56,56	0
56	MG	2A	3524	1/1	0.84	0.09	56,56,56,56	0
56	MG	1A	3385	1/1	0.84	0.26	74,74,74,74	0
56	MG	1A	4108	1/1	0.84	0.30	60,60,60,60	0
56	MG	1A	3611	1/1	0.84	0.10	61,61,61,61	0
56	MG	1l	203	1/1	0.84	0.13	57,57,57,57	0
56	MG	1A	4114	1/1	0.84	0.21	41,41,41,41	0
56	MG	2y	3002	1/1	0.84	0.15	79,79,79,79	0
56	MG	1a	1760	1/1	0.84	0.21	75,75,75,75	0
56	MG	1w	101	1/1	0.84	0.13	69,69,69,69	0
56	MG	1A	4115	1/1	0.84	0.18	35,35,35,35	0
56	MG	2A	3344	1/1	0.84	0.15	62,62,62,62	0
56	MG	2a	1672	1/1	0.84	0.12	74,74,74,74	0
56	MG	1I	3001	1/1	0.85	0.10	66,66,66,66	0
56	MG	2A	3415	1/1	0.85	0.23	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1N	201	1/1	0.85	0.98	58,58,58,58	0
56	MG	1N	202	1/1	0.85	0.18	47,47,47,47	0
56	MG	1N	205	1/1	0.85	0.33	61,61,61,61	0
56	MG	1A	3628	1/1	0.85	0.36	56,56,56,56	0
56	MG	2A	3425	1/1	0.85	0.64	63,63,63,63	0
56	MG	1A	3087	1/1	0.85	0.21	59,59,59,59	0
56	MG	1Q	203	1/1	0.85	0.16	64,64,64,64	0
56	MG	1A	3271	1/1	0.85	0.26	57,57,57,57	0
56	MG	1A	4019	1/1	0.85	0.08	67,67,67,67	0
56	MG	1A	3334	1/1	0.85	0.12	65,65,65,65	0
56	MG	2A	3250	1/1	0.85	0.38	71,71,71,71	0
56	MG	2a	1670	1/1	0.85	0.19	71,71,71,71	0
56	MG	1A	3486	1/1	0.85	0.20	48,48,48,48	0
56	MG	1A	3645	1/1	0.85	0.24	51,51,51,51	0
56	MG	1A	3560	1/1	0.85	0.27	63,63,63,63	0
56	MG	2A	3478	1/1	0.85	0.61	62,62,62,62	0
56	MG	1A	3090	1/1	0.85	0.16	45,45,45,45	0
56	MG	2a	1691	1/1	0.85	0.17	72,72,72,72	0
56	MG	1A	3345	1/1	0.85	0.34	61,61,61,61	0
56	MG	1a	1747	1/1	0.85	0.29	70,70,70,70	0
56	MG	1a	1749	1/1	0.85	0.22	61,61,61,61	0
56	MG	18	102	1/1	0.85	0.34	54,54,54,54	0
56	MG	1a	1752	1/1	0.85	0.32	65,65,65,65	0
56	MG	1A	3159	1/1	0.85	0.12	52,52,52,52	0
56	MG	2a	1714	1/1	0.85	0.11	76,76,76,76	0
56	MG	1A	3657	1/1	0.85	0.20	59,59,59,59	0
56	MG	2A	3016	1/1	0.85	0.11	64,64,64,64	0
56	MG	1A	3661	1/1	0.85	0.23	32,32,32,32	0
56	MG	2a	1726	1/1	0.85	0.14	76,76,76,76	0
56	MG	1A	3017	1/1	0.85	0.23	41,41,41,41	0
56	MG	2a	1729	1/1	0.85	0.12	75,75,75,75	0
56	MG	1a	1611	1/1	0.85	0.12	64,64,64,64	0
56	MG	1a	1767	1/1	0.85	0.29	66,66,66,66	0
56	MG	1A	3450	1/1	0.85	0.23	54,54,54,54	0
56	MG	1a	1779	1/1	0.85	0.12	77,77,77,77	0
56	MG	2A	3878	1/1	0.85	0.08	68,68,68,68	0
56	MG	1a	1783	1/1	0.85	0.14	69,69,69,69	0
56	MG	2A	3301	1/1	0.85	0.11	46,46,46,46	0
56	MG	2a	1739	1/1	0.85	0.24	71,71,71,71	0
56	MG	2a	1741	1/1	0.85	0.25	69,69,69,69	0
56	MG	2A	3884	1/1	0.85	0.12	51,51,51,51	0
56	MG	2A	3067	1/1	0.85	0.20	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3218	1/1	0.85	0.28	49,49,49,49	0
56	MG	2a	1750	1/1	0.85	0.36	83,83,83,83	0
56	MG	2A	3076	1/1	0.85	0.14	46,46,46,46	0
56	MG	2A	3581	1/1	0.85	0.11	40,40,40,40	0
56	MG	1A	3318	1/1	0.85	0.18	55,55,55,55	0
56	MG	1A	3950	1/1	0.85	0.11	52,52,52,52	0
56	MG	2A	3612	1/1	0.85	0.18	58,58,58,58	0
56	MG	2A	3324	1/1	0.85	0.52	51,51,51,51	0
56	MG	2A	3089	1/1	0.85	0.12	62,62,62,62	0
56	MG	1a	1807	1/1	0.85	0.10	85,85,85,85	0
56	MG	1A	3743	1/1	0.85	0.18	32,32,32,32	0
56	MG	1A	3362	1/1	0.85	0.14	62,62,62,62	0
56	MG	1A	3512	1/1	0.85	0.17	56,56,56,56	0
56	MG	1A	3410	1/1	0.85	0.33	47,47,47,47	0
56	MG	2A	3647	1/1	0.85	0.12	67,67,67,67	0
56	MG	2B	3010	1/1	0.85	0.11	71,71,71,71	0
56	MG	1a	1827	1/1	0.85	0.29	92,92,92,92	0
56	MG	2A	3111	1/1	0.85	0.13	52,52,52,52	0
56	MG	2E	302	1/1	0.85	0.18	54,54,54,54	0
56	MG	1a	1828	1/1	0.85	0.07	68,68,68,68	0
56	MG	2E	306	1/1	0.85	0.15	59,59,59,59	0
56	MG	2A	3117	1/1	0.85	0.25	44,44,44,44	0
56	MG	2F	306	1/1	0.85	0.08	51,51,51,51	0
56	MG	1A	3462	1/1	0.85	0.15	50,50,50,50	0
56	MG	1A	3516	1/1	0.85	0.35	61,61,61,61	0
56	MG	1A	3024	1/1	0.85	0.33	46,46,46,46	0
56	MG	1A	4086	1/1	0.85	0.10	60,60,60,60	0
56	MG	1A	3984	1/1	0.85	0.19	37,37,37,37	0
56	MG	1a	1840	1/1	0.85	0.16	61,61,61,61	0
56	MG	2A	3352	1/1	0.85	0.09	67,67,67,67	0
56	MG	2a	1848	1/1	0.85	0.15	75,75,75,75	0
56	MG	1A	3608	1/1	0.85	0.20	60,60,60,60	0
56	MG	1A	3298	1/1	0.85	0.09	59,59,59,59	0
56	MG	1A	3472	1/1	0.85	0.37	64,64,64,64	0
56	MG	2A	3192	1/1	0.85	0.10	59,59,59,59	0
56	MG	2A	3372	1/1	0.85	0.28	68,68,68,68	0
56	MG	2v	103	1/1	0.85	0.19	60,60,60,60	0
56	MG	1A	3811	1/1	0.85	0.25	58,58,58,58	0
56	MG	2a	1620	1/1	0.85	0.23	68,68,68,68	0
56	MG	1B	3030	1/1	0.85	0.05	69,69,69,69	0
56	MG	1A	3818	1/1	0.85	0.18	34,34,34,34	0
56	MG	2w	106	1/1	0.85	0.19	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3321	1/1	0.85	0.29	58,58,58,58	0
56	MG	1a	1857	1/1	0.85	0.11	66,66,66,66	0
56	MG	1A	4010	1/1	0.85	0.20	43,43,43,43	0
56	MG	1A	3028	1/1	0.85	0.20	44,44,44,44	0
56	MG	1E	310	1/1	0.85	0.16	62,62,62,62	0
56	MG	1F	306	1/1	0.85	0.16	46,46,46,46	0
56	MG	2A	3772	1/1	0.85	0.45	73,73,73,73	0
56	MG	1A	3536	1/1	0.85	0.10	80,80,80,80	0
56	MG	1A	3002	1/1	0.85	0.23	52,52,52,52	0
58	CPT	2A	3918	3/5	0.85	0.20	62,62,65,108	3
56	MG	1F	305	1/1	0.86	0.28	50,50,50,50	0
56	MG	1A	3459	1/1	0.86	0.20	49,49,49,49	0
56	MG	2A	3198	1/1	0.86	0.11	48,48,48,48	0
56	MG	1A	3401	1/1	0.86	0.30	67,67,67,67	0
56	MG	1A	3150	1/1	0.86	0.33	44,44,44,44	0
56	MG	1A	3309	1/1	0.86	0.23	59,59,59,59	0
56	MG	1A	3812	1/1	0.86	0.20	60,60,60,60	0
56	MG	2A	3800	1/1	0.86	0.05	60,60,60,60	0
56	MG	1A	3264	1/1	0.86	0.16	56,56,56,56	0
56	MG	2A	3405	1/1	0.86	0.11	60,60,60,60	0
56	MG	2A	3410	1/1	0.86	0.14	65,65,65,65	0
56	MG	2A	3211	1/1	0.86	0.38	54,54,54,54	0
56	MG	1A	3216	1/1	0.86	0.13	50,50,50,50	0
56	MG	1A	3824	1/1	0.86	0.16	40,40,40,40	0
56	MG	1A	4011	1/1	0.86	0.05	57,57,57,57	0
56	MG	2a	1671	1/1	0.86	0.16	60,60,60,60	0
56	MG	1A	3115	1/1	0.86	0.39	42,42,42,42	0
56	MG	1A	3171	1/1	0.86	0.14	43,43,43,43	0
56	MG	1A	3842	1/1	0.86	0.07	59,59,59,59	0
56	MG	1A	3847	1/1	0.86	0.22	59,59,59,59	0
56	MG	2A	3225	1/1	0.86	0.23	58,58,58,58	0
56	MG	1A	3121	1/1	0.86	0.20	40,40,40,40	0
56	MG	1a	1738	1/1	0.86	0.20	64,64,64,64	0
56	MG	1Z	303	1/1	0.86	0.11	73,73,73,73	0
56	MG	10	104	1/1	0.86	0.19	57,57,57,57	0
56	MG	1A	3422	1/1	0.86	0.31	63,63,63,63	0
56	MG	13	102	1/1	0.86	0.10	51,51,51,51	0
56	MG	1w	105	1/1	0.86	0.12	75,75,75,75	0
56	MG	1A	3482	1/1	0.86	0.18	59,59,59,59	0
56	MG	1A	3642	1/1	0.86	0.23	62,62,62,62	0
56	MG	1A	3555	1/1	0.86	0.27	46,46,46,46	0
56	MG	1A	3273	1/1	0.86	0.19	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3259	1/1	0.86	0.13	63,63,63,63	0
56	MG	1A	3424	1/1	0.86	0.36	68,68,68,68	0
56	MG	1x	113	1/1	0.86	0.09	66,66,66,66	0
56	MG	1A	3088	1/1	0.86	0.19	50,50,50,50	0
56	MG	2A	3873	1/1	0.86	0.06	66,66,66,66	0
56	MG	1A	4159	1/1	0.86	0.17	49,49,49,49	0
56	MG	2A	3004	1/1	0.86	0.21	50,50,50,50	0
56	MG	1a	1763	1/1	0.86	0.17	67,67,67,67	0
56	MG	1A	4037	1/1	0.86	0.12	74,74,74,74	0
56	MG	2A	3509	1/1	0.86	0.13	62,62,62,62	0
56	MG	1A	3089	1/1	0.86	0.14	49,49,49,49	0
56	MG	2A	3049	1/1	0.86	0.36	43,43,43,43	0
56	MG	1a	1771	1/1	0.86	0.13	55,55,55,55	0
56	MG	2A	3534	1/1	0.86	0.11	63,63,63,63	0
56	MG	2a	1747	1/1	0.86	0.38	73,73,73,73	0
56	MG	2a	1748	1/1	0.86	0.27	60,60,60,60	0
56	MG	2A	3893	1/1	0.86	0.13	60,60,60,60	0
56	MG	1A	3492	1/1	0.86	0.23	62,62,62,62	0
56	MG	1a	1620	1/1	0.86	0.08	58,58,58,58	0
56	MG	2A	3291	1/1	0.86	0.17	53,53,53,53	0
56	MG	2a	1755	1/1	0.86	0.07	65,65,65,65	0
56	MG	1A	4183	1/1	0.86	0.14	38,38,38,38	0
56	MG	1A	4040	1/1	0.86	0.19	52,52,52,52	0
56	MG	1A	3072	1/1	0.86	0.25	58,58,58,58	0
56	MG	1a	1632	1/1	0.86	0.38	69,69,69,69	0
56	MG	2A	3074	1/1	0.86	0.24	39,39,39,39	0
56	MG	1A	3658	1/1	0.86	0.21	36,36,36,36	0
56	MG	1a	1815	1/1	0.86	0.12	74,74,74,74	0
56	MG	2A	3080	1/1	0.86	0.37	53,53,53,53	0
56	MG	2a	1770	1/1	0.86	0.06	78,78,78,78	0
56	MG	2a	1775	1/1	0.86	0.11	47,47,47,47	0
56	MG	2B	3004	1/1	0.86	0.12	68,68,68,68	0
56	MG	1A	3252	1/1	0.86	0.10	68,68,68,68	0
56	MG	2A	3087	1/1	0.86	0.32	53,53,53,53	0
56	MG	2B	3011	1/1	0.86	0.10	69,69,69,69	0
56	MG	1A	3671	1/1	0.86	0.17	45,45,45,45	0
56	MG	1A	3253	1/1	0.86	0.14	53,53,53,53	0
56	MG	1A	3936	1/1	0.86	0.12	77,77,77,77	0
56	MG	1A	3331	1/1	0.86	0.26	69,69,69,69	0
56	MG	1A	3580	1/1	0.86	0.16	49,49,49,49	0
56	MG	1A	3205	1/1	0.86	0.08	46,46,46,46	0
56	MG	2F	302	1/1	0.86	0.51	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1666	1/1	0.86	0.14	59,59,59,59	0
56	MG	1A	3509	1/1	0.86	0.21	60,60,60,60	0
56	MG	2A	3335	1/1	0.86	0.10	68,68,68,68	0
56	MG	1a	1835	1/1	0.86	0.06	64,64,64,64	0
56	MG	1a	1836	1/1	0.86	0.05	75,75,75,75	0
56	MG	1A	4062	1/1	0.86	0.17	56,56,56,56	0
56	MG	2a	1842	1/1	0.86	0.46	75,75,75,75	0
56	MG	1A	3592	1/1	0.86	0.19	49,49,49,49	0
56	MG	2A	3695	1/1	0.86	0.08	58,58,58,58	0
56	MG	1A	4069	1/1	0.86	0.12	87,87,87,87	0
56	MG	2A	3146	1/1	0.86	0.11	59,59,59,59	0
56	MG	2q	203	1/1	0.86	0.22	73,73,73,73	0
56	MG	2A	3151	1/1	0.86	0.29	52,52,52,52	0
56	MG	2r	3001	1/1	0.86	0.13	81,81,81,81	0
56	MG	1A	3208	1/1	0.86	0.13	67,67,67,67	0
56	MG	1A	3965	1/1	0.86	0.19	61,61,61,61	0
56	MG	2a	1606	1/1	0.86	0.19	68,68,68,68	0
56	MG	2A	3353	1/1	0.86	0.22	61,61,61,61	0
56	MG	2a	1617	1/1	0.86	0.10	71,71,71,71	0
56	MG	2A	3356	1/1	0.86	0.12	58,58,58,58	0
56	MG	1A	3597	1/1	0.86	0.14	48,48,48,48	0
56	MG	1A	3063	1/1	0.86	0.24	69,69,69,69	0
56	MG	2A	3367	1/1	0.86	0.10	62,62,62,62	0
56	MG	2a	1626	1/1	0.86	0.55	71,71,71,71	0
56	MG	2A	3176	1/1	0.86	0.65	53,53,53,53	0
56	MG	2y	3001	1/1	0.86	0.17	77,77,77,77	0
56	MG	2A	3369	1/1	0.86	0.18	61,61,61,61	0
56	MG	1A	3097	1/1	0.86	0.12	54,54,54,54	0
56	MG	2a	1632	1/1	0.86	0.69	63,63,63,63	0
56	MG	2A	3371	1/1	0.86	0.28	65,65,65,65	0
56	MG	1A	3978	1/1	0.86	0.17	72,72,72,72	0
56	MG	1a	1696	1/1	0.86	0.16	58,58,58,58	0
56	MG	1A	3351	1/1	0.86	0.22	55,55,55,55	0
56	MG	1A	3943	1/1	0.87	0.06	49,49,49,49	0
56	MG	1a	1851	1/1	0.87	0.11	45,45,45,45	0
56	MG	2A	3322	1/1	0.87	0.12	67,67,67,67	0
56	MG	1a	1855	1/1	0.87	0.17	83,83,83,83	0
56	MG	1A	3079	1/1	0.87	0.26	44,44,44,44	0
56	MG	2A	3522	1/1	0.87	0.21	33,33,33,33	0
56	MG	2A	3842	1/1	0.87	0.10	54,54,54,54	0
56	MG	1A	3403	1/1	0.87	0.36	55,55,55,55	0
56	MG	2A	3143	1/1	0.87	0.14	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	1684	1/1	0.87	0.14	67,67,67,67	0
56	MG	1U	204	1/1	0.87	0.30	38,38,38,38	0
56	MG	1W	201	1/1	0.87	0.22	56,56,56,56	0
56	MG	2A	3856	1/1	0.87	0.12	46,46,46,46	0
56	MG	1A	3406	1/1	0.87	0.17	47,47,47,47	0
56	MG	1A	3798	1/1	0.87	0.12	41,41,41,41	0
56	MG	2A	3870	1/1	0.87	0.07	56,56,56,56	0
56	MG	1A	4152	1/1	0.87	0.09	46,46,46,46	0
56	MG	1A	3156	1/1	0.87	0.20	46,46,46,46	0
56	MG	1a	1730	1/1	0.87	0.31	72,72,72,72	0
56	MG	1A	4052	1/1	0.87	0.08	58,58,58,58	0
56	MG	2A	3186	1/1	0.87	0.12	50,50,50,50	0
56	MG	2A	3594	1/1	0.87	0.19	60,60,60,60	0
56	MG	14	502	1/1	0.87	0.27	73,73,73,73	0
56	MG	2A	3609	1/1	0.87	0.09	36,36,36,36	0
56	MG	1A	4162	1/1	0.87	0.16	42,42,42,42	0
56	MG	1A	3337	1/1	0.87	0.31	64,64,64,64	0
56	MG	2A	3619	1/1	0.87	0.15	50,50,50,50	0
56	MG	1a	1884	1/1	0.87	0.27	62,62,62,62	0
56	MG	1A	4172	1/1	0.87	0.22	60,60,60,60	0
56	MG	1A	3128	1/1	0.87	0.26	53,53,53,53	0
56	MG	1A	3412	1/1	0.87	0.23	57,57,57,57	0
56	MG	1A	3341	1/1	0.87	0.16	60,60,60,60	0
56	MG	2A	3928	1/1	0.87	0.16	48,48,48,48	0
56	MG	1A	3977	1/1	0.87	0.30	77,77,77,77	0
56	MG	1A	4200	1/1	0.87	0.34	45,45,45,45	0
56	MG	1A	3209	1/1	0.87	0.13	49,49,49,49	0
56	MG	1a	1755	1/1	0.87	0.30	83,83,83,83	0
56	MG	1A	3084	1/1	0.87	0.48	44,44,44,44	0
56	MG	2A	3663	1/1	0.87	0.11	68,68,68,68	0
56	MG	1a	1759	1/1	0.87	0.12	79,79,79,79	0
56	MG	1A	3353	1/1	0.87	0.13	46,46,46,46	0
56	MG	1x	103	1/1	0.87	0.14	50,50,50,50	0
56	MG	1A	3845	1/1	0.87	0.08	81,81,81,81	0
56	MG	2B	3012	1/1	0.87	0.32	65,65,65,65	0
56	MG	1A	4073	1/1	0.87	0.20	22,22,22,22	0
56	MG	1a	1628	1/1	0.87	0.12	75,75,75,75	0
56	MG	2B	3015	1/1	0.87	0.20	70,70,70,70	0
56	MG	2B	3017	1/1	0.87	0.07	58,58,58,58	0
56	MG	1a	1629	1/1	0.87	0.24	61,61,61,61	0
56	MG	1A	3355	1/1	0.87	0.19	62,62,62,62	0
56	MG	1A	3851	1/1	0.87	0.20	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1636	1/1	0.87	0.28	70,70,70,70	0
56	MG	1A	3381	1/1	0.87	0.52	50,50,50,50	0
56	MG	2A	3244	1/1	0.87	0.21	40,40,40,40	0
56	MG	2N	8001	1/1	0.87	0.14	55,55,55,55	0
56	MG	1A	3853	1/1	0.87	0.11	48,48,48,48	0
56	MG	2A	3722	1/1	0.87	0.14	39,39,39,39	0
56	MG	2R	202	1/1	0.87	0.24	57,57,57,57	0
56	MG	2A	3022	1/1	0.87	0.09	55,55,55,55	0
56	MG	1A	4003	1/1	0.87	0.10	67,67,67,67	0
56	MG	2a	1793	1/1	0.87	0.14	71,71,71,71	0
56	MG	2A	3734	1/1	0.87	0.16	51,51,51,51	0
56	MG	1A	3052	1/1	0.87	0.11	52,52,52,52	0
56	MG	2A	3047	1/1	0.87	0.11	47,47,47,47	0
56	MG	1a	1806	1/1	0.87	0.17	67,67,67,67	0
56	MG	2A	3747	1/1	0.87	0.19	50,50,50,50	0
56	MG	1A	3665	1/1	0.87	0.12	39,39,39,39	0
56	MG	2A	3758	1/1	0.87	0.06	78,78,78,78	0
56	MG	1A	3532	1/1	0.87	0.17	56,56,56,56	0
56	MG	1A	3602	1/1	0.87	0.26	70,70,70,70	0
56	MG	1A	3867	1/1	0.87	0.17	57,57,57,57	0
56	MG	2a	1836	1/1	0.87	0.16	70,70,70,70	0
56	MG	1A	4094	1/1	0.87	0.10	79,79,79,79	0
56	MG	2a	1618	1/1	0.87	0.11	71,71,71,71	0
56	MG	1A	4100	1/1	0.87	0.22	60,60,60,60	0
56	MG	1A	3425	1/1	0.87	0.16	50,50,50,50	0
56	MG	2A	3445	1/1	0.87	0.28	49,49,49,49	0
56	MG	1A	3426	1/1	0.87	0.15	50,50,50,50	0
56	MG	2A	3794	1/1	0.87	0.12	45,45,45,45	0
56	MG	2A	3455	1/1	0.87	0.29	62,62,62,62	0
56	MG	1A	3048	1/1	0.87	0.17	43,43,43,43	0
56	MG	1A	4110	1/1	0.87	0.39	54,54,54,54	0
56	MG	2A	3464	1/1	0.87	0.08	69,69,69,69	0
56	MG	1A	3483	1/1	0.87	0.32	58,58,58,58	0
56	MG	1A	3296	1/1	0.87	0.21	51,51,51,51	0
56	MG	1A	3750	1/1	0.87	0.16	32,32,32,32	0
56	MG	2A	3475	1/1	0.87	0.16	56,56,56,56	0
56	MG	2A	3284	1/1	0.87	0.21	64,64,64,64	0
56	MG	1A	3754	1/1	0.87	0.17	36,36,36,36	0
56	MG	1A	3001	1/1	0.87	0.17	51,51,51,51	0
56	MG	1A	3613	1/1	0.87	0.35	56,56,56,56	0
56	MG	2x	104	1/1	0.87	0.22	56,56,56,56	0
56	MG	2a	1655	1/1	0.87	0.16	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3819	1/1	0.87	0.05	78,78,78,78	0
56	MG	1A	3392	1/1	0.87	0.20	58,58,58,58	0
56	MG	1O	3001	1/1	0.87	0.29	70,70,70,70	0
56	MG	2A	3096	1/1	0.87	0.08	52,52,52,52	0
56	MG	1A	4127	1/1	0.87	0.08	71,71,71,71	0
56	MG	1A	3332	1/1	0.87	0.21	66,66,66,66	0
56	MG	1A	3440	1/1	0.87	0.18	58,58,58,58	0
56	MG	1A	3491	1/1	0.88	0.26	64,64,64,64	0
56	MG	2A	3383	1/1	0.88	0.12	64,64,64,64	0
56	MG	1f	3001	1/1	0.88	0.17	39,39,39,39	0
56	MG	1A	3538	1/1	0.88	0.11	79,79,79,79	0
56	MG	1A	3187	1/1	0.88	0.14	49,49,49,49	0
56	MG	2A	3756	1/1	0.88	0.10	66,66,66,66	0
56	MG	1A	3545	1/1	0.88	0.17	53,53,53,53	0
56	MG	2A	3209	1/1	0.88	0.12	49,49,49,49	0
56	MG	1a	1744	1/1	0.88	0.16	67,67,67,67	0
56	MG	2a	1634	1/1	0.88	0.18	67,67,67,67	0
56	MG	2A	3402	1/1	0.88	0.28	48,48,48,48	0
56	MG	2A	3768	1/1	0.88	0.17	46,46,46,46	0
56	MG	1A	3352	1/1	0.88	0.53	42,42,42,42	0
56	MG	1A	3999	1/1	0.88	0.14	55,55,55,55	0
56	MG	2A	3408	1/1	0.88	0.16	67,67,67,67	0
56	MG	2A	3777	1/1	0.88	0.21	65,65,65,65	0
56	MG	1A	3685	1/1	0.88	0.13	42,42,42,42	0
56	MG	2A	3782	1/1	0.88	0.16	51,51,51,51	0
56	MG	2A	3785	1/1	0.88	0.10	59,59,59,59	0
56	MG	2A	3786	1/1	0.88	0.12	57,57,57,57	0
56	MG	1A	3693	1/1	0.88	0.23	41,41,41,41	0
56	MG	1A	3694	1/1	0.88	0.15	65,65,65,65	0
56	MG	1A	3698	1/1	0.88	0.17	64,64,64,64	0
56	MG	1a	1622	1/1	0.88	0.10	79,79,79,79	0
56	MG	2a	1663	1/1	0.88	0.14	79,79,79,79	0
56	MG	1A	3496	1/1	0.88	0.16	55,55,55,55	0
56	MG	2A	3801	1/1	0.88	0.11	64,64,64,64	0
56	MG	2A	3421	1/1	0.88	0.14	65,65,65,65	0
56	MG	2A	3226	1/1	0.88	0.12	55,55,55,55	0
56	MG	1x	106	1/1	0.88	0.15	67,67,67,67	0
56	MG	1A	3460	1/1	0.88	0.21	56,56,56,56	0
56	MG	2A	3232	1/1	0.88	0.17	59,59,59,59	0
56	MG	2a	1674	1/1	0.88	0.14	43,43,43,43	0
56	MG	2A	3235	1/1	0.88	0.51	55,55,55,55	0
56	MG	1A	3554	1/1	0.88	0.23	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3447	1/1	0.88	0.24	61,61,61,61	0
56	MG	2A	3816	1/1	0.88	0.08	42,42,42,42	0
56	MG	1A	3876	1/1	0.88	0.15	34,34,34,34	0
56	MG	1A	3265	1/1	0.88	0.15	64,64,64,64	0
56	MG	1a	1765	1/1	0.88	0.22	64,64,64,64	0
56	MG	1A	3614	1/1	0.88	0.30	44,44,44,44	0
56	MG	1A	3615	1/1	0.88	0.14	59,59,59,59	0
56	MG	1a	1637	1/1	0.88	0.21	62,62,62,62	0
56	MG	2A	3470	1/1	0.88	0.21	63,63,63,63	0
56	MG	2A	3023	1/1	0.88	0.14	60,60,60,60	0
56	MG	2a	1708	1/1	0.88	0.14	83,83,83,83	0
56	MG	2A	3834	1/1	0.88	0.13	49,49,49,49	0
56	MG	1a	1639	1/1	0.88	0.15	59,59,59,59	0
56	MG	2A	3473	1/1	0.88	0.15	63,63,63,63	0
56	MG	1A	3753	1/1	0.88	0.15	61,61,61,61	0
56	MG	1D	302	1/1	0.88	0.28	53,53,53,53	0
56	MG	1D	312	1/1	0.88	0.38	46,46,46,46	0
56	MG	2A	3481	1/1	0.88	0.18	68,68,68,68	0
56	MG	2A	3050	1/1	0.88	0.17	52,52,52,52	0
56	MG	1E	302	1/1	0.88	0.33	65,65,65,65	0
56	MG	1A	3130	1/1	0.88	0.14	76,76,76,76	0
56	MG	2A	3849	1/1	0.88	0.15	51,51,51,51	0
56	MG	1A	4028	1/1	0.88	0.38	58,58,58,58	0
56	MG	1A	3370	1/1	0.88	0.55	52,52,52,52	0
56	MG	2A	3494	1/1	0.88	0.39	57,57,57,57	0
56	MG	1A	3371	1/1	0.88	0.36	62,62,62,62	0
56	MG	2A	3862	1/1	0.88	0.09	65,65,65,65	0
56	MG	1A	3761	1/1	0.88	0.17	42,42,42,42	0
56	MG	2A	3868	1/1	0.88	0.18	61,61,61,61	0
56	MG	1a	1667	1/1	0.88	0.13	71,71,71,71	0
56	MG	1A	3430	1/1	0.88	0.16	60,60,60,60	0
56	MG	2A	3507	1/1	0.88	0.16	50,50,50,50	0
56	MG	1A	3408	1/1	0.88	0.11	55,55,55,55	0
56	MG	2A	3877	1/1	0.88	0.11	57,57,57,57	0
56	MG	2A	3077	1/1	0.88	0.22	32,32,32,32	0
56	MG	2A	3286	1/1	0.88	0.27	43,43,43,43	0
56	MG	1A	3771	1/1	0.88	0.12	59,59,59,59	0
56	MG	1A	3375	1/1	0.88	0.55	66,66,66,66	0
56	MG	2A	3523	1/1	0.88	0.18	57,57,57,57	0
56	MG	2A	3888	1/1	0.88	0.12	53,53,53,53	0
56	MG	1A	3778	1/1	0.88	0.14	64,64,64,64	0
56	MG	2A	3086	1/1	0.88	0.16	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2A	3299	1/1	0.88	0.15	62,62,62,62	0
56	MG	1A	4041	1/1	0.88	0.05	70,70,70,70	0
56	MG	2A	3905	1/1	0.88	0.04	68,68,68,68	0
56	MG	1a	1680	1/1	0.88	0.10	73,73,73,73	0
56	MG	2a	1776	1/1	0.88	0.07	90,90,90,90	0
56	MG	1a	1833	1/1	0.88	0.17	73,73,73,73	0
56	MG	1N	206	1/1	0.88	0.18	46,46,46,46	0
56	MG	2A	3304	1/1	0.88	0.22	63,63,63,63	0
56	MG	2A	3923	1/1	0.88	0.18	39,39,39,39	0
56	MG	1A	3194	1/1	0.88	0.15	53,53,53,53	0
56	MG	2A	3315	1/1	0.88	0.28	53,53,53,53	0
56	MG	1A	3639	1/1	0.88	0.31	63,63,63,63	0
56	MG	1A	3166	1/1	0.88	0.32	44,44,44,44	0
56	MG	2A	3097	1/1	0.88	0.15	37,37,37,37	0
56	MG	2a	1795	1/1	0.88	0.09	81,81,81,81	0
56	MG	1A	4149	1/1	0.88	0.21	30,30,30,30	0
56	MG	2a	1807	1/1	0.88	0.14	66,66,66,66	0
56	MG	1A	3797	1/1	0.88	0.13	42,42,42,42	0
56	MG	2A	3105	1/1	0.88	0.12	46,46,46,46	0
56	MG	2A	3108	1/1	0.88	0.08	57,57,57,57	0
56	MG	1Q	205	1/1	0.88	0.12	44,44,44,44	0
56	MG	1R	202	1/1	0.88	0.35	40,40,40,40	0
56	MG	1A	3047	1/1	0.88	0.17	27,27,27,27	0
56	MG	1A	3258	1/1	0.88	0.14	40,40,40,40	0
56	MG	1a	1707	1/1	0.88	0.14	68,68,68,68	0
56	MG	1A	4054	1/1	0.88	0.25	56,56,56,56	0
56	MG	1A	3148	1/1	0.88	0.17	41,41,41,41	0
56	MG	2A	3654	1/1	0.88	0.13	37,37,37,37	0
56	MG	2A	3144	1/1	0.88	0.22	58,58,58,58	0
56	MG	2a	1856	1/1	0.88	0.15	60,60,60,60	0
56	MG	1a	1710	1/1	0.88	0.15	66,66,66,66	0
56	MG	1a	1711	1/1	0.88	0.10	58,58,58,58	0
56	MG	2p	101	1/1	0.88	0.23	65,65,65,65	0
56	MG	2q	201	1/1	0.88	0.15	61,61,61,61	0
56	MG	1A	3531	1/1	0.88	0.21	66,66,66,66	0
56	MG	2A	3162	1/1	0.88	0.65	58,58,58,58	0
56	MG	2A	3673	1/1	0.88	0.11	59,59,59,59	0
56	MG	2P	202	1/1	0.88	0.14	51,51,51,51	0
56	MG	1Z	302	1/1	0.88	0.16	69,69,69,69	0
56	MG	2A	3688	1/1	0.88	0.10	41,41,41,41	0
56	MG	1A	3245	1/1	0.88	0.18	66,66,66,66	0
56	MG	1a	1719	1/1	0.88	0.27	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1721	1/1	0.88	0.37	70,70,70,70	0
56	MG	1A	3823	1/1	0.88	0.22	34,34,34,34	0
56	MG	2A	3183	1/1	0.88	0.12	43,43,43,43	0
56	MG	1l	101	1/1	0.88	0.17	44,44,44,44	0
56	MG	2A	3365	1/1	0.88	0.13	65,65,65,65	0
56	MG	2A	3189	1/1	0.88	0.17	47,47,47,47	0
56	MG	1A	3418	1/1	0.88	0.35	62,62,62,62	0
56	MG	1A	4176	1/1	0.88	0.18	54,54,54,54	0
56	MG	1a	1727	1/1	0.88	0.12	62,62,62,62	0
56	MG	2y	3003	1/1	0.88	0.15	80,80,80,80	0
56	MG	1a	1729	1/1	0.88	0.12	65,65,65,65	0
56	MG	2a	1612	1/1	0.88	0.14	79,79,79,79	0
56	MG	2A	3196	1/1	0.88	0.18	41,41,41,41	0
56	MG	1A	3979	1/1	0.88	0.16	56,56,56,56	0
56	MG	2A	3731	1/1	0.88	0.16	57,57,57,57	0
56	MG	1A	3308	1/1	0.88	0.21	55,55,55,55	0
59	ZN	2n	102	1/1	0.88	0.10	97,97,97,97	0
56	MG	1A	3220	1/1	0.89	0.16	58,58,58,58	0
56	MG	1A	3966	1/1	0.89	0.26	44,44,44,44	0
56	MG	2A	3121	1/1	0.89	0.12	56,56,56,56	0
56	MG	1A	3330	1/1	0.89	0.16	65,65,65,65	0
56	MG	1a	1715	1/1	0.89	0.23	62,62,62,62	0
56	MG	2A	3526	1/1	0.89	0.15	46,46,46,46	0
56	MG	1A	3488	1/1	0.89	0.49	58,58,58,58	0
56	MG	2A	3536	1/1	0.89	0.16	63,63,63,63	0
56	MG	2A	3537	1/1	0.89	0.14	51,51,51,51	0
56	MG	2A	3539	1/1	0.89	0.11	31,31,31,31	0
56	MG	2A	3548	1/1	0.89	0.15	53,53,53,53	0
56	MG	2A	3132	1/1	0.89	0.20	66,66,66,66	0
56	MG	1A	3267	1/1	0.89	0.16	50,50,50,50	0
56	MG	2A	3852	1/1	0.89	0.22	44,44,44,44	0
56	MG	2A	3553	1/1	0.89	0.08	42,42,42,42	0
56	MG	1A	4188	1/1	0.89	0.09	40,40,40,40	0
56	MG	1A	3405	1/1	0.89	0.46	42,42,42,42	0
56	MG	1A	3535	1/1	0.89	0.16	75,75,75,75	0
56	MG	17	104	1/1	0.89	0.14	60,60,60,60	0
56	MG	2a	1699	1/1	0.89	0.17	57,57,57,57	0
56	MG	1A	3152	1/1	0.89	0.42	42,42,42,42	0
56	MG	1A	3604	1/1	0.89	0.18	66,66,66,66	0
56	MG	1a	1728	1/1	0.89	0.21	77,77,77,77	0
56	MG	2A	3171	1/1	0.89	0.10	58,58,58,58	0
56	MG	1A	4216	1/1	0.89	0.39	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4221	1/1	0.89	0.18	29,29,29,29	0
56	MG	1a	1879	1/1	0.89	0.15	82,82,82,82	0
56	MG	1a	1606	1/1	0.89	0.28	61,61,61,61	0
56	MG	2A	3345	1/1	0.89	0.09	58,58,58,58	0
56	MG	2A	3622	1/1	0.89	0.10	60,60,60,60	0
56	MG	1A	3840	1/1	0.89	0.10	33,33,33,33	0
56	MG	2A	3187	1/1	0.89	0.11	54,54,54,54	0
56	MG	1A	3681	1/1	0.89	0.14	55,55,55,55	0
56	MG	2A	3190	1/1	0.89	0.32	69,69,69,69	0
56	MG	2a	1732	1/1	0.89	0.32	74,74,74,74	0
56	MG	1A	3086	1/1	0.89	0.27	41,41,41,41	0
56	MG	2A	3896	1/1	0.89	0.21	59,59,59,59	0
56	MG	2A	3636	1/1	0.89	0.17	62,62,62,62	0
56	MG	1A	3994	1/1	0.89	0.10	39,39,39,39	0
56	MG	2A	3908	1/1	0.89	0.26	71,71,71,71	0
56	MG	1A	3493	1/1	0.89	0.23	68,68,68,68	0
56	MG	1A	3428	1/1	0.89	0.12	39,39,39,39	0
56	MG	1A	3112	1/1	0.89	0.26	38,38,38,38	0
56	MG	1B	3013	1/1	0.89	0.13	62,62,62,62	0
56	MG	1A	3610	1/1	0.89	0.09	63,63,63,63	0
56	MG	1B	3019	1/1	0.89	0.09	58,58,58,58	0
56	MG	1A	3712	1/1	0.89	0.11	48,48,48,48	0
56	MG	2A	3930	1/1	0.89	0.35	58,58,58,58	0
56	MG	1A	3715	1/1	0.89	0.19	33,33,33,33	0
56	MG	2A	3936	1/1	0.89	0.27	47,47,47,47	0
56	MG	1a	1633	1/1	0.89	0.10	50,50,50,50	0
56	MG	1A	4007	1/1	0.89	0.16	67,67,67,67	0
56	MG	1A	3467	1/1	0.89	0.39	56,56,56,56	0
56	MG	2a	1758	1/1	0.89	0.09	83,83,83,83	0
56	MG	2A	3691	1/1	0.89	0.07	43,43,43,43	0
56	MG	2A	3379	1/1	0.89	0.06	69,69,69,69	0
56	MG	1A	3863	1/1	0.89	0.23	51,51,51,51	0
56	MG	1a	1641	1/1	0.89	0.47	61,61,61,61	0
56	MG	1A	3010	1/1	0.89	0.20	37,37,37,37	0
56	MG	1a	1645	1/1	0.89	0.21	63,63,63,63	0
56	MG	1y	102	1/1	0.89	0.12	61,61,61,61	0
56	MG	1A	3060	1/1	0.89	0.12	53,53,53,53	0
56	MG	1A	4107	1/1	0.89	0.26	64,64,64,64	0
56	MG	1D	311	1/1	0.89	0.12	78,78,78,78	0
56	MG	1a	1773	1/1	0.89	0.26	64,64,64,64	0
56	MG	1a	1774	1/1	0.89	0.13	56,56,56,56	0
56	MG	1A	3473	1/1	0.89	0.30	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3028	1/1	0.89	0.20	49,49,49,49	0
56	MG	2A	3030	1/1	0.89	0.14	43,43,43,43	0
56	MG	1A	3884	1/1	0.89	0.16	64,64,64,64	0
56	MG	2A	3736	1/1	0.89	0.08	52,52,52,52	0
56	MG	1a	1788	1/1	0.89	0.13	78,78,78,78	0
56	MG	2A	3039	1/1	0.89	0.17	56,56,56,56	0
56	MG	2A	3243	1/1	0.89	0.14	55,55,55,55	0
56	MG	2a	1801	1/1	0.89	0.16	64,64,64,64	0
56	MG	2A	3046	1/1	0.89	0.18	45,45,45,45	0
56	MG	1A	3556	1/1	0.89	0.16	63,63,63,63	0
56	MG	2A	3247	1/1	0.89	0.21	57,57,57,57	0
56	MG	2U	3001	1/1	0.89	0.34	56,56,56,56	0
56	MG	1A	3894	1/1	0.89	0.14	37,37,37,37	0
56	MG	1a	1665	1/1	0.89	0.29	69,69,69,69	0
56	MG	1A	3508	1/1	0.89	0.32	34,34,34,34	0
56	MG	2a	1829	1/1	0.89	0.11	74,74,74,74	0
56	MG	2a	1832	1/1	0.89	0.23	61,61,61,61	0
56	MG	2A	3429	1/1	0.89	0.23	69,69,69,69	0
56	MG	1A	3622	1/1	0.89	0.33	57,57,57,57	0
56	MG	2A	3253	1/1	0.89	0.11	67,67,67,67	0
56	MG	2A	3255	1/1	0.89	0.12	64,64,64,64	0
56	MG	1A	3559	1/1	0.89	0.31	62,62,62,62	0
56	MG	2A	3061	1/1	0.89	0.09	50,50,50,50	0
56	MG	1a	1818	1/1	0.89	0.12	87,87,87,87	0
56	MG	1A	4122	1/1	0.89	0.18	34,34,34,34	0
56	MG	2a	1616	1/1	0.89	0.24	66,66,66,66	0
56	MG	1A	4030	1/1	0.89	0.10	59,59,59,59	0
56	MG	1A	3132	1/1	0.89	0.29	54,54,54,54	0
56	MG	2q	202	1/1	0.89	0.13	62,62,62,62	0
56	MG	1a	1825	1/1	0.89	0.09	68,68,68,68	0
56	MG	2A	3791	1/1	0.89	0.16	60,60,60,60	0
56	MG	1A	3477	1/1	0.89	0.31	47,47,47,47	0
56	MG	2a	1624	1/1	0.89	0.09	53,53,53,53	0
56	MG	1A	3912	1/1	0.89	0.18	57,57,57,57	0
56	MG	1A	3342	1/1	0.89	0.22	58,58,58,58	0
56	MG	2A	3275	1/1	0.89	0.28	48,48,48,48	0
56	MG	1a	1681	1/1	0.89	0.14	56,56,56,56	0
56	MG	1A	3185	1/1	0.89	0.17	56,56,56,56	0
56	MG	1A	4135	1/1	0.89	0.13	64,64,64,64	0
56	MG	1a	1832	1/1	0.89	0.13	65,65,65,65	0
56	MG	1A	3571	1/1	0.89	0.26	46,46,46,46	0
56	MG	1A	3633	1/1	0.89	0.08	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3636	1/1	0.89	0.13	35,35,35,35	0
56	MG	1A	4145	1/1	0.89	0.11	80,80,80,80	0
56	MG	2a	1646	1/1	0.89	0.24	67,67,67,67	0
56	MG	1A	3346	1/1	0.89	0.23	54,54,54,54	0
56	MG	1A	3293	1/1	0.89	0.28	67,67,67,67	0
56	MG	1A	3643	1/1	0.89	0.09	70,70,70,70	0
56	MG	2A	3499	1/1	0.89	0.22	59,59,59,59	0
56	MG	1A	3448	1/1	0.89	0.24	47,47,47,47	0
56	MG	1A	3419	1/1	0.89	0.20	43,43,43,43	0
56	MG	1A	3527	1/1	0.89	0.17	34,34,34,34	0
56	MG	1A	3802	1/1	0.89	0.14	61,61,61,61	0
56	MG	1A	4168	1/1	0.89	0.16	57,57,57,57	0
56	MG	1a	1687	1/1	0.90	0.32	60,60,60,60	0
56	MG	1A	3466	1/1	0.90	0.22	62,62,62,62	0
56	MG	2A	3448	1/1	0.90	0.21	56,56,56,56	0
56	MG	1a	1692	1/1	0.90	0.35	57,57,57,57	0
56	MG	1U	203	1/1	0.90	0.28	49,49,49,49	0
56	MG	1A	3302	1/1	0.90	0.33	59,59,59,59	0
56	MG	1V	201	1/1	0.90	0.19	59,59,59,59	0
56	MG	1a	1699	1/1	0.90	0.33	68,68,68,68	0
56	MG	2A	3466	1/1	0.90	0.16	51,51,51,51	0
56	MG	2A	3467	1/1	0.90	0.22	49,49,49,49	0
56	MG	1A	3581	1/1	0.90	0.19	45,45,45,45	0
56	MG	1A	3069	1/1	0.90	0.23	39,39,39,39	0
56	MG	1a	1704	1/1	0.90	0.24	59,59,59,59	0
56	MG	2A	3808	1/1	0.90	0.09	44,44,44,44	0
56	MG	1A	3589	1/1	0.90	0.23	45,45,45,45	0
56	MG	1A	3376	1/1	0.90	0.28	64,64,64,64	0
56	MG	2A	3088	1/1	0.90	0.27	58,58,58,58	0
56	MG	1A	3991	1/1	0.90	0.16	60,60,60,60	0
56	MG	2A	3477	1/1	0.90	0.19	60,60,60,60	0
56	MG	1A	4078	1/1	0.90	0.10	46,46,46,46	0
56	MG	1A	3860	1/1	0.90	0.13	34,34,34,34	0
56	MG	2A	3279	1/1	0.90	0.26	60,60,60,60	0
56	MG	2A	3280	1/1	0.90	0.15	60,60,60,60	0
56	MG	1A	3537	1/1	0.90	0.13	67,67,67,67	0
56	MG	2a	1673	1/1	0.90	0.09	79,79,79,79	0
56	MG	1A	3007	1/1	0.90	0.12	45,45,45,45	0
56	MG	1A	3282	1/1	0.90	0.55	46,46,46,46	0
56	MG	2a	1680	1/1	0.90	0.23	48,48,48,48	0
56	MG	2A	3285	1/1	0.90	0.13	40,40,40,40	0
56	MG	1A	3074	1/1	0.90	0.12	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2A	3287	1/1	0.90	0.14	54,54,54,54	0
56	MG	2a	1685	1/1	0.90	0.26	66,66,66,66	0
56	MG	2a	1687	1/1	0.90	0.16	76,76,76,76	0
56	MG	2A	3289	1/1	0.90	0.32	53,53,53,53	0
56	MG	1a	1850	1/1	0.90	0.09	62,62,62,62	0
56	MG	1A	3870	1/1	0.90	0.10	67,67,67,67	0
56	MG	2a	1694	1/1	0.90	0.17	72,72,72,72	0
56	MG	1A	4090	1/1	0.90	0.40	77,77,77,77	0
56	MG	1A	3873	1/1	0.90	0.18	60,60,60,60	0
56	MG	1a	1601	1/1	0.90	0.14	47,47,47,47	0
56	MG	2A	3510	1/1	0.90	0.28	61,61,61,61	0
56	MG	2A	3511	1/1	0.90	0.09	61,61,61,61	0
56	MG	1a	1602	1/1	0.90	0.21	62,62,62,62	0
56	MG	2A	3850	1/1	0.90	0.11	28,28,28,28	0
56	MG	1A	3601	1/1	0.90	0.22	61,61,61,61	0
56	MG	2A	3519	1/1	0.90	0.15	60,60,60,60	0
56	MG	2A	3119	1/1	0.90	0.22	40,40,40,40	0
56	MG	2a	1724	1/1	0.90	0.24	57,57,57,57	0
56	MG	1A	3505	1/1	0.90	0.20	73,73,73,73	0
56	MG	2A	3857	1/1	0.90	0.13	37,37,37,37	0
56	MG	1A	3886	1/1	0.90	0.16	47,47,47,47	0
56	MG	1A	4098	1/1	0.90	0.11	38,38,38,38	0
56	MG	1A	4099	1/1	0.90	0.10	54,54,54,54	0
56	MG	1A	3006	1/1	0.90	0.19	56,56,56,56	0
56	MG	2A	3318	1/1	0.90	0.12	64,64,64,64	0
56	MG	1a	1613	1/1	0.90	0.18	52,52,52,52	0
56	MG	1A	3769	1/1	0.90	0.14	47,47,47,47	0
56	MG	1A	3897	1/1	0.90	0.08	71,71,71,71	0
56	MG	2A	3147	1/1	0.90	0.14	47,47,47,47	0
56	MG	1A	3091	1/1	0.90	0.09	53,53,53,53	0
56	MG	2A	3153	1/1	0.90	0.21	57,57,57,57	0
56	MG	1A	3772	1/1	0.90	0.17	52,52,52,52	0
56	MG	2a	1742	1/1	0.90	0.21	68,68,68,68	0
56	MG	1A	3776	1/1	0.90	0.13	78,78,78,78	0
56	MG	2A	3561	1/1	0.90	0.12	56,56,56,56	0
56	MG	2a	1745	1/1	0.90	0.15	64,64,64,64	0
56	MG	1A	3902	1/1	0.90	0.09	52,52,52,52	0
56	MG	1A	3336	1/1	0.90	0.14	64,64,64,64	0
56	MG	2A	3575	1/1	0.90	0.17	40,40,40,40	0
56	MG	2A	3170	1/1	0.90	0.12	58,58,58,58	0
56	MG	1A	3234	1/1	0.90	0.12	61,61,61,61	0
56	MG	2A	3897	1/1	0.90	0.13	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3898	1/1	0.90	0.28	53,53,53,53	0
56	MG	2A	3338	1/1	0.90	0.11	57,57,57,57	0
56	MG	1D	305	1/1	0.90	0.21	49,49,49,49	0
56	MG	1a	1750	1/1	0.90	0.28	63,63,63,63	0
56	MG	1D	308	1/1	0.90	0.17	48,48,48,48	0
56	MG	2A	3342	1/1	0.90	0.62	54,54,54,54	0
56	MG	1A	3295	1/1	0.90	0.24	31,31,31,31	0
56	MG	2A	3184	1/1	0.90	0.16	43,43,43,43	0
56	MG	1A	3916	1/1	0.90	0.12	53,53,53,53	0
56	MG	1A	3188	1/1	0.90	0.38	49,49,49,49	0
56	MG	1a	1640	1/1	0.90	1.38	94,94,94,94	0
56	MG	1a	1758	1/1	0.90	0.32	76,76,76,76	0
56	MG	1w	108	1/1	0.90	0.12	73,73,73,73	0
56	MG	2a	1777	1/1	0.90	0.07	75,75,75,75	0
56	MG	1A	4032	1/1	0.90	0.15	78,78,78,78	0
56	MG	2a	1780	1/1	0.90	0.20	75,75,75,75	0
56	MG	1w	111	1/1	0.90	0.10	74,74,74,74	0
56	MG	1E	307	1/1	0.90	0.25	73,73,73,73	0
56	MG	1A	3662	1/1	0.90	0.15	59,59,59,59	0
56	MG	1a	1651	1/1	0.90	0.09	59,59,59,59	0
56	MG	1A	3663	1/1	0.90	0.22	21,21,21,21	0
56	MG	1x	108	1/1	0.90	0.17	58,58,58,58	0
56	MG	1A	3925	1/1	0.90	0.20	45,45,45,45	0
56	MG	2A	3201	1/1	0.90	0.25	42,42,42,42	0
56	MG	1A	3455	1/1	0.90	0.24	62,62,62,62	0
56	MG	2A	3674	1/1	0.90	0.10	46,46,46,46	0
56	MG	1a	1770	1/1	0.90	0.37	66,66,66,66	0
56	MG	1A	3189	1/1	0.90	0.64	51,51,51,51	0
56	MG	1G	3003	1/1	0.90	0.07	67,67,67,67	0
56	MG	2D	305	1/1	0.90	0.52	47,47,47,47	0
56	MG	2A	3377	1/1	0.90	0.15	67,67,67,67	0
56	MG	1A	3674	1/1	0.90	0.16	50,50,50,50	0
56	MG	2a	1819	1/1	0.90	0.12	63,63,63,63	0
56	MG	2A	3002	1/1	0.90	0.20	59,59,59,59	0
56	MG	1a	1661	1/1	0.90	0.20	57,57,57,57	0
56	MG	2A	3015	1/1	0.90	0.18	40,40,40,40	0
56	MG	2F	304	1/1	0.90	0.27	51,51,51,51	0
56	MG	2F	305	1/1	0.90	0.28	42,42,42,42	0
56	MG	1a	1775	1/1	0.90	0.21	65,65,65,65	0
56	MG	2G	3001	1/1	0.90	0.14	60,60,60,60	0
56	MG	2A	3017	1/1	0.90	0.15	49,49,49,49	0
56	MG	2A	3388	1/1	0.90	0.12	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3221	1/1	0.90	0.16	58,58,58,58	0
56	MG	2A	3391	1/1	0.90	0.20	75,75,75,75	0
56	MG	2d	301	1/1	0.90	0.31	65,65,65,65	0
56	MG	2g	8001	1/1	0.90	0.20	82,82,82,82	0
56	MG	2A	3395	1/1	0.90	0.14	65,65,65,65	0
56	MG	2A	3719	1/1	0.90	0.11	51,51,51,51	0
56	MG	1A	3523	1/1	0.90	0.12	72,72,72,72	0
56	MG	1A	3398	1/1	0.90	0.77	49,49,49,49	0
56	MG	1A	3399	1/1	0.90	0.33	52,52,52,52	0
56	MG	1N	203	1/1	0.90	0.22	53,53,53,53	0
56	MG	2A	3404	1/1	0.90	0.16	55,55,55,55	0
56	MG	1A	3034	1/1	0.90	0.16	51,51,51,51	0
56	MG	2A	3229	1/1	0.90	0.16	60,60,60,60	0
56	MG	2A	3409	1/1	0.90	0.12	62,62,62,62	0
56	MG	1A	3620	1/1	0.90	0.38	56,56,56,56	0
56	MG	1A	3530	1/1	0.90	0.12	53,53,53,53	0
56	MG	2A	3748	1/1	0.90	0.09	51,51,51,51	0
56	MG	2a	1608	1/1	0.90	0.20	72,72,72,72	0
56	MG	2A	3043	1/1	0.90	0.17	46,46,46,46	0
56	MG	2A	3750	1/1	0.90	0.14	81,81,81,81	0
56	MG	2A	3236	1/1	0.90	0.27	56,56,56,56	0
56	MG	2A	3757	1/1	0.90	0.20	54,54,54,54	0
56	MG	2A	3416	1/1	0.90	0.21	51,51,51,51	0
56	MG	2A	3759	1/1	0.90	0.12	44,44,44,44	0
56	MG	1A	3961	1/1	0.90	0.15	59,59,59,59	0
56	MG	2A	3418	1/1	0.90	0.12	67,67,67,67	0
56	MG	1a	1814	1/1	0.90	0.12	58,58,58,58	0
56	MG	1A	3834	1/1	0.90	0.12	54,54,54,54	0
56	MG	1A	4158	1/1	0.90	0.18	45,45,45,45	0
56	MG	1A	3702	1/1	0.90	0.16	39,39,39,39	0
56	MG	1A	3704	1/1	0.90	0.12	65,65,65,65	0
56	MG	1A	3054	1/1	0.90	0.18	42,42,42,42	0
56	MG	1A	3099	1/1	0.90	0.23	52,52,52,52	0
56	MG	2A	3063	1/1	0.90	0.10	59,59,59,59	0
56	MG	1x	111	1/1	0.91	0.07	73,73,73,73	0
56	MG	2a	1615	1/1	0.91	0.25	73,73,73,73	0
56	MG	2A	3726	1/1	0.91	0.18	67,67,67,67	0
56	MG	1a	1631	1/1	0.91	0.22	75,75,75,75	0
56	MG	2A	3400	1/1	0.91	0.30	52,52,52,52	0
56	MG	1A	3517	1/1	0.91	0.15	58,58,58,58	0
56	MG	1x	118	1/1	0.91	0.20	72,72,72,72	0
56	MG	1A	3106	1/1	0.91	0.27	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1a	1635	1/1	0.91	0.21	64,64,64,64	0
56	MG	1A	3786	1/1	0.91	0.07	70,70,70,70	0
56	MG	1A	3485	1/1	0.91	0.20	63,63,63,63	0
56	MG	1A	3224	1/1	0.91	0.42	60,60,60,60	0
56	MG	1A	4116	1/1	0.91	0.45	47,47,47,47	0
56	MG	1A	3904	1/1	0.91	0.18	56,56,56,56	0
56	MG	2A	3753	1/1	0.91	0.08	55,55,55,55	0
56	MG	1a	1642	1/1	0.91	0.18	67,67,67,67	0
56	MG	1A	3906	1/1	0.91	0.22	56,56,56,56	0
56	MG	1A	4020	1/1	0.91	0.16	34,34,34,34	0
56	MG	1E	311	1/1	0.91	0.34	48,48,48,48	0
56	MG	1F	302	1/1	0.91	0.22	51,51,51,51	0
56	MG	1A	4025	1/1	0.91	0.20	23,23,23,23	0
56	MG	2A	3034	1/1	0.91	0.12	36,36,36,36	0
56	MG	1A	3227	1/1	0.91	0.25	53,53,53,53	0
56	MG	2a	1651	1/1	0.91	0.21	71,71,71,71	0
56	MG	1A	3255	1/1	0.91	0.21	67,67,67,67	0
56	MG	1G	3002	1/1	0.91	0.14	56,56,56,56	0
56	MG	2A	3428	1/1	0.91	0.22	55,55,55,55	0
56	MG	1a	1798	1/1	0.91	0.09	61,61,61,61	0
56	MG	2A	3430	1/1	0.91	0.15	62,62,62,62	0
56	MG	1a	1800	1/1	0.91	0.13	61,61,61,61	0
56	MG	2A	3433	1/1	0.91	0.20	53,53,53,53	0
56	MG	2A	3442	1/1	0.91	0.31	60,60,60,60	0
56	MG	1A	3801	1/1	0.91	0.15	47,47,47,47	0
56	MG	1a	1803	1/1	0.91	0.14	51,51,51,51	0
56	MG	2A	3052	1/1	0.91	0.12	54,54,54,54	0
56	MG	2A	3795	1/1	0.91	0.09	48,48,48,48	0
56	MG	1A	3918	1/1	0.91	0.14	72,72,72,72	0
56	MG	1A	3458	1/1	0.91	0.18	64,64,64,64	0
56	MG	2A	3057	1/1	0.91	0.17	58,58,58,58	0
56	MG	1A	3804	1/1	0.91	0.17	43,43,43,43	0
56	MG	1A	3923	1/1	0.91	0.37	47,47,47,47	0
56	MG	1a	1816	1/1	0.91	0.12	72,72,72,72	0
56	MG	1A	3807	1/1	0.91	0.14	45,45,45,45	0
56	MG	1A	3324	1/1	0.91	0.18	64,64,64,64	0
56	MG	1A	3929	1/1	0.91	0.20	52,52,52,52	0
56	MG	2A	3068	1/1	0.91	0.18	39,39,39,39	0
56	MG	2A	3069	1/1	0.91	0.15	31,31,31,31	0
56	MG	2A	3270	1/1	0.91	0.12	57,57,57,57	0
56	MG	2A	3474	1/1	0.91	0.21	61,61,61,61	0
56	MG	1A	3368	1/1	0.91	0.15	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1671	1/1	0.91	0.10	72,72,72,72	0
56	MG	1O	3002	1/1	0.91	0.45	55,55,55,55	0
56	MG	1O	3004	1/1	0.91	0.25	56,56,56,56	0
56	MG	2A	3479	1/1	0.91	0.16	49,49,49,49	0
56	MG	2A	3824	1/1	0.91	0.09	59,59,59,59	0
56	MG	2a	1697	1/1	0.91	0.26	69,69,69,69	0
56	MG	1A	3935	1/1	0.91	0.11	42,42,42,42	0
56	MG	1a	1679	1/1	0.91	0.11	58,58,58,58	0
56	MG	1A	3687	1/1	0.91	0.15	38,38,38,38	0
56	MG	1A	3624	1/1	0.91	0.27	61,61,61,61	0
56	MG	1A	3938	1/1	0.91	0.19	38,38,38,38	0
56	MG	1A	3940	1/1	0.91	0.21	49,49,49,49	0
56	MG	1A	3625	1/1	0.91	0.11	70,70,70,70	0
56	MG	1R	203	1/1	0.91	0.27	44,44,44,44	0
56	MG	2a	1717	1/1	0.91	0.29	58,58,58,58	0
56	MG	1A	3080	1/1	0.91	0.16	46,46,46,46	0
56	MG	2A	3093	1/1	0.91	0.10	39,39,39,39	0
56	MG	1A	4167	1/1	0.91	0.11	46,46,46,46	0
56	MG	1U	202	1/1	0.91	1.22	88,88,88,88	0
56	MG	1A	3627	1/1	0.91	0.21	49,49,49,49	0
56	MG	1A	3826	1/1	0.91	0.11	62,62,62,62	0
56	MG	2A	3296	1/1	0.91	0.11	53,53,53,53	0
56	MG	1U	207	1/1	0.91	0.11	56,56,56,56	0
56	MG	2A	3100	1/1	0.91	0.21	59,59,59,59	0
56	MG	1A	3494	1/1	0.91	0.15	54,54,54,54	0
56	MG	2A	3853	1/1	0.91	0.14	30,30,30,30	0
56	MG	1A	3708	1/1	0.91	0.12	58,58,58,58	0
56	MG	1X	104	1/1	0.91	0.24	52,52,52,52	0
56	MG	1A	3427	1/1	0.91	0.30	56,56,56,56	0
56	MG	2A	3114	1/1	0.91	0.24	61,61,61,61	0
56	MG	2a	1740	1/1	0.91	0.21	67,67,67,67	0
56	MG	2A	3312	1/1	0.91	0.13	60,60,60,60	0
56	MG	2A	3866	1/1	0.91	0.09	62,62,62,62	0
56	MG	2A	3525	1/1	0.91	0.14	39,39,39,39	0
56	MG	1Y	203	1/1	0.91	0.14	62,62,62,62	0
56	MG	2A	3116	1/1	0.91	0.07	52,52,52,52	0
56	MG	2A	3535	1/1	0.91	0.12	33,33,33,33	0
56	MG	1a	1854	1/1	0.91	0.06	86,86,86,86	0
56	MG	2A	3319	1/1	0.91	0.46	57,57,57,57	0
56	MG	2A	3538	1/1	0.91	0.06	62,62,62,62	0
56	MG	2A	3118	1/1	0.91	0.12	59,59,59,59	0
56	MG	2A	3540	1/1	0.91	0.16	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3543	1/1	0.91	0.11	24,24,24,24	0
56	MG	2A	3883	1/1	0.91	0.16	41,41,41,41	0
56	MG	1A	3586	1/1	0.91	0.20	62,62,62,62	0
56	MG	1A	3716	1/1	0.91	0.17	26,26,26,26	0
56	MG	2A	3122	1/1	0.91	0.08	52,52,52,52	0
56	MG	2a	1760	1/1	0.91	0.17	80,80,80,80	0
56	MG	1A	3971	1/1	0.91	0.18	48,48,48,48	0
56	MG	2a	1762	1/1	0.91	0.15	62,62,62,62	0
56	MG	2A	3556	1/1	0.91	0.09	43,43,43,43	0
56	MG	1A	3161	1/1	0.91	0.27	42,42,42,42	0
56	MG	11	102	1/1	0.91	0.12	56,56,56,56	0
56	MG	2A	3131	1/1	0.91	0.27	81,81,81,81	0
56	MG	1A	4207	1/1	0.91	0.15	24,24,24,24	0
56	MG	2a	1773	1/1	0.91	0.08	52,52,52,52	0
56	MG	2A	3900	1/1	0.91	0.56	41,41,41,41	0
56	MG	11	105	1/1	0.91	0.28	65,65,65,65	0
56	MG	2A	3903	1/1	0.91	0.12	62,62,62,62	0
56	MG	2A	3565	1/1	0.91	0.10	58,58,58,58	0
56	MG	2A	3333	1/1	0.91	0.16	60,60,60,60	0
56	MG	2A	3909	1/1	0.91	0.45	72,72,72,72	0
56	MG	1A	3328	1/1	0.91	0.25	62,62,62,62	0
56	MG	2A	3911	1/1	0.91	0.16	70,70,70,70	0
56	MG	1A	3729	1/1	0.91	0.14	27,27,27,27	0
56	MG	2A	3582	1/1	0.91	0.10	48,48,48,48	0
56	MG	2A	3920	1/1	0.91	0.30	39,39,39,39	0
56	MG	2a	1792	1/1	0.91	0.13	72,72,72,72	0
56	MG	2A	3337	1/1	0.91	0.77	69,69,69,69	0
56	MG	2A	3592	1/1	0.91	0.16	52,52,52,52	0
56	MG	2A	3593	1/1	0.91	0.13	48,48,48,48	0
56	MG	1a	1720	1/1	0.91	0.15	60,60,60,60	0
56	MG	2A	3595	1/1	0.91	0.18	48,48,48,48	0
56	MG	2a	1805	1/1	0.91	0.13	84,84,84,84	0
56	MG	2A	3597	1/1	0.91	0.10	49,49,49,49	0
56	MG	2A	3148	1/1	0.91	0.25	33,33,33,33	0
56	MG	1A	3635	1/1	0.91	0.18	51,51,51,51	0
56	MG	2A	3610	1/1	0.91	0.08	54,54,54,54	0
56	MG	2a	1815	1/1	0.91	0.15	63,63,63,63	0
56	MG	2B	3001	1/1	0.91	0.11	65,65,65,65	0
56	MG	1A	3373	1/1	0.91	0.14	64,64,64,64	0
56	MG	1A	3374	1/1	0.91	0.41	48,48,48,48	0
56	MG	1A	4083	1/1	0.91	0.09	56,56,56,56	0
56	MG	2a	1826	1/1	0.91	0.08	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	1828	1/1	0.91	0.08	69,69,69,69	0
56	MG	2B	3006	1/1	0.91	0.22	71,71,71,71	0
56	MG	2B	3007	1/1	0.91	0.17	57,57,57,57	0
56	MG	2A	3621	1/1	0.91	0.14	57,57,57,57	0
56	MG	1A	3640	1/1	0.91	0.17	53,53,53,53	0
56	MG	19	101	1/1	0.91	0.18	49,49,49,49	0
56	MG	2a	1837	1/1	0.91	0.12	71,71,71,71	0
56	MG	1a	1885	1/1	0.91	0.09	48,48,48,48	0
56	MG	1A	3543	1/1	0.91	0.37	36,36,36,36	0
56	MG	2a	1846	1/1	0.91	0.12	63,63,63,63	0
56	MG	1A	3191	1/1	0.91	0.42	47,47,47,47	0
56	MG	2a	1851	1/1	0.91	0.09	71,71,71,71	0
56	MG	1b	3002	1/1	0.91	0.15	69,69,69,69	0
56	MG	1e	3001	1/1	0.91	0.19	72,72,72,72	0
56	MG	2d	303	1/1	0.91	0.09	65,65,65,65	0
56	MG	1B	3007	1/1	0.91	0.15	65,65,65,65	0
56	MG	2E	301	1/1	0.91	0.20	69,69,69,69	0
56	MG	1a	1732	1/1	0.91	0.08	66,66,66,66	0
56	MG	1A	3259	1/1	0.91	0.44	54,54,54,54	0
56	MG	1A	3105	1/1	0.91	0.13	32,32,32,32	0
56	MG	2A	3366	1/1	0.91	0.54	59,59,59,59	0
56	MG	1n	104	1/1	0.91	0.17	50,50,50,50	0
56	MG	1A	3869	1/1	0.91	0.17	27,27,27,27	0
56	MG	1A	3995	1/1	0.91	0.15	43,43,43,43	0
56	MG	1A	3236	1/1	0.91	0.15	53,53,53,53	0
56	MG	1A	3445	1/1	0.91	0.11	62,62,62,62	0
56	MG	1w	104	1/1	0.91	0.14	45,45,45,45	0
56	MG	2A	3685	1/1	0.91	0.08	66,66,66,66	0
56	MG	1A	3358	1/1	0.91	0.18	66,66,66,66	0
56	MG	1a	1615	1/1	0.91	0.15	58,58,58,58	0
56	MG	1B	3026	1/1	0.91	0.14	41,41,41,41	0
56	MG	1a	1621	1/1	0.91	0.12	36,36,36,36	0
56	MG	2w	107	1/1	0.91	0.06	78,78,78,78	0
56	MG	2A	3380	1/1	0.91	0.26	62,62,62,62	0
56	MG	1A	3878	1/1	0.91	0.14	39,39,39,39	0
56	MG	2A	3698	1/1	0.91	0.13	49,49,49,49	0
56	MG	1A	3652	1/1	0.91	0.34	42,42,42,42	0
56	MG	2x	105	1/1	0.91	0.20	63,63,63,63	0
56	MG	1A	3244	1/1	0.91	0.20	57,57,57,57	0
56	MG	1A	3655	1/1	0.91	0.09	69,69,69,69	0
56	MG	1A	3198	1/1	0.91	0.10	56,56,56,56	0
56	MG	2A	3205	1/1	0.91	0.10	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3207	1/1	0.91	0.20	56,56,56,56	0
56	MG	2A	3208	1/1	0.91	0.12	50,50,50,50	0
56	MG	2A	3392	1/1	0.91	0.19	67,67,67,67	0
57	K	1A	3577	1/1	0.91	0.12	56,56,56,56	0
56	MG	1A	3247	1/1	0.91	0.57	63,63,63,63	0
56	MG	2A	3723	1/1	0.91	0.07	62,62,62,62	0
59	ZN	24	501	1/1	0.91	0.11	95,95,95,95	0
56	MG	2a	1613	1/1	0.91	0.18	67,67,67,67	0
56	MG	1A	3239	1/1	0.92	0.14	58,58,58,58	0
56	MG	1E	304	1/1	0.92	0.20	29,29,29,29	0
56	MG	1A	3200	1/1	0.92	0.37	46,46,46,46	0
56	MG	2A	3239	1/1	0.92	0.24	56,56,56,56	0
56	MG	2A	3240	1/1	0.92	0.46	56,56,56,56	0
56	MG	2A	3040	1/1	0.92	0.12	52,52,52,52	0
56	MG	1a	1649	1/1	0.92	0.16	40,40,40,40	0
56	MG	2a	1630	1/1	0.92	0.18	70,70,70,70	0
56	MG	2A	3424	1/1	0.92	0.10	68,68,68,68	0
56	MG	1A	3083	1/1	0.92	0.17	34,34,34,34	0
56	MG	1A	3872	1/1	0.92	0.11	55,55,55,55	0
56	MG	1a	1799	1/1	0.92	0.13	45,45,45,45	0
56	MG	1A	3763	1/1	0.92	0.08	59,59,59,59	0
56	MG	2a	1638	1/1	0.92	0.28	86,86,86,86	0
56	MG	1A	3066	1/1	0.92	0.23	58,58,58,58	0
56	MG	1A	3877	1/1	0.92	0.21	42,42,42,42	0
56	MG	2A	3432	1/1	0.92	0.21	45,45,45,45	0
56	MG	2A	3055	1/1	0.92	0.36	56,56,56,56	0
56	MG	2A	3436	1/1	0.92	0.25	53,53,53,53	0
56	MG	2a	1649	1/1	0.92	0.16	69,69,69,69	0
56	MG	2A	3441	1/1	0.92	0.32	48,48,48,48	0
56	MG	1A	3767	1/1	0.92	0.26	64,64,64,64	0
56	MG	2A	3443	1/1	0.92	0.41	58,58,58,58	0
56	MG	1A	3881	1/1	0.92	0.12	51,51,51,51	0
56	MG	2A	3446	1/1	0.92	0.30	56,56,56,56	0
56	MG	1a	1808	1/1	0.92	0.14	59,59,59,59	0
56	MG	2A	3776	1/1	0.92	0.23	70,70,70,70	0
56	MG	2a	1659	1/1	0.92	0.12	80,80,80,80	0
56	MG	1a	1809	1/1	0.92	0.11	56,56,56,56	0
56	MG	2A	3778	1/1	0.92	0.07	42,42,42,42	0
56	MG	2A	3779	1/1	0.92	0.10	52,52,52,52	0
56	MG	1a	1813	1/1	0.92	0.11	55,55,55,55	0
56	MG	2a	1664	1/1	0.92	0.51	78,78,78,78	0
56	MG	2A	3454	1/1	0.92	0.20	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1G	3001	1/1	0.92	0.18	47,47,47,47	0
56	MG	2A	3260	1/1	0.92	0.08	53,53,53,53	0
56	MG	2a	1668	1/1	0.92	0.28	53,53,53,53	0
56	MG	2A	3788	1/1	0.92	0.14	36,36,36,36	0
56	MG	2A	3457	1/1	0.92	0.16	54,54,54,54	0
56	MG	2A	3790	1/1	0.92	0.15	55,55,55,55	0
56	MG	1A	3882	1/1	0.92	0.12	56,56,56,56	0
56	MG	2A	3463	1/1	0.92	0.17	65,65,65,65	0
56	MG	1A	3250	1/1	0.92	0.20	55,55,55,55	0
56	MG	1A	3561	1/1	0.92	0.08	43,43,43,43	0
56	MG	2A	3266	1/1	0.92	0.13	64,64,64,64	0
56	MG	1A	4008	1/1	0.92	0.12	59,59,59,59	0
56	MG	2A	3071	1/1	0.92	0.12	44,44,44,44	0
56	MG	2A	3072	1/1	0.92	0.09	41,41,41,41	0
56	MG	1a	1820	1/1	0.92	0.13	76,76,76,76	0
56	MG	1A	3890	1/1	0.92	0.15	60,60,60,60	0
56	MG	1A	3891	1/1	0.92	0.18	73,73,73,73	0
56	MG	1A	3659	1/1	0.92	0.21	34,34,34,34	0
56	MG	2A	3809	1/1	0.92	0.18	55,55,55,55	0
56	MG	1A	4125	1/1	0.92	0.14	17,17,17,17	0
56	MG	1A	3221	1/1	0.92	0.13	52,52,52,52	0
56	MG	1A	3207	1/1	0.92	0.20	38,38,38,38	0
56	MG	1A	3417	1/1	0.92	0.12	53,53,53,53	0
56	MG	1A	3452	1/1	0.92	0.58	52,52,52,52	0
56	MG	1A	3784	1/1	0.92	0.16	31,31,31,31	0
56	MG	2A	3484	1/1	0.92	0.49	55,55,55,55	0
56	MG	1A	3621	1/1	0.92	0.15	48,48,48,48	0
56	MG	1A	3453	1/1	0.92	0.32	45,45,45,45	0
56	MG	2a	1713	1/1	0.92	0.12	69,69,69,69	0
56	MG	1a	1683	1/1	0.92	0.14	69,69,69,69	0
56	MG	2a	1715	1/1	0.92	0.16	60,60,60,60	0
56	MG	2A	3288	1/1	0.92	0.44	55,55,55,55	0
56	MG	1a	1684	1/1	0.92	0.12	73,73,73,73	0
56	MG	2A	3827	1/1	0.92	0.22	40,40,40,40	0
56	MG	2a	1719	1/1	0.92	0.14	77,77,77,77	0
56	MG	2a	1722	1/1	0.92	0.12	71,71,71,71	0
56	MG	2a	1723	1/1	0.92	0.12	87,87,87,87	0
56	MG	1a	1685	1/1	0.92	0.20	60,60,60,60	0
56	MG	1A	4021	1/1	0.92	0.40	58,58,58,58	0
56	MG	1A	3223	1/1	0.92	0.14	59,59,59,59	0
56	MG	2a	1727	1/1	0.92	0.18	54,54,54,54	0
56	MG	2A	3500	1/1	0.92	0.17	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3294	1/1	0.92	0.33	53,53,53,53	0
56	MG	1a	1690	1/1	0.92	0.26	51,51,51,51	0
56	MG	1A	3791	1/1	0.92	0.11	53,53,53,53	0
56	MG	1A	3796	1/1	0.92	0.23	23,23,23,23	0
56	MG	2A	3101	1/1	0.92	0.13	58,58,58,58	0
56	MG	2A	3841	1/1	0.92	0.11	51,51,51,51	0
56	MG	1A	3909	1/1	0.92	0.20	32,32,32,32	0
56	MG	1A	3311	1/1	0.92	0.24	58,58,58,58	0
56	MG	1U	201	1/1	0.92	0.18	43,43,43,43	0
56	MG	2A	3513	1/1	0.92	0.08	70,70,70,70	0
56	MG	1a	1849	1/1	0.92	0.14	75,75,75,75	0
56	MG	2A	3517	1/1	0.92	0.11	60,60,60,60	0
56	MG	1a	1698	1/1	0.92	0.14	61,61,61,61	0
56	MG	2A	3308	1/1	0.92	0.09	54,54,54,54	0
56	MG	1A	4157	1/1	0.92	0.26	44,44,44,44	0
56	MG	2A	3313	1/1	0.92	0.07	61,61,61,61	0
56	MG	1a	1700	1/1	0.92	0.28	62,62,62,62	0
56	MG	1A	3914	1/1	0.92	0.20	78,78,78,78	0
56	MG	2A	3527	1/1	0.92	0.15	21,21,21,21	0
56	MG	2A	3532	1/1	0.92	0.10	57,57,57,57	0
56	MG	2a	1751	1/1	0.92	0.16	54,54,54,54	0
56	MG	1A	3335	1/1	0.92	0.23	53,53,53,53	0
56	MG	1A	4161	1/1	0.92	0.15	47,47,47,47	0
56	MG	1A	3098	1/1	0.92	0.22	74,74,74,74	0
56	MG	1A	3393	1/1	0.92	0.20	57,57,57,57	0
56	MG	1X	101	1/1	0.92	0.36	45,45,45,45	0
56	MG	1A	3921	1/1	0.92	0.08	54,54,54,54	0
56	MG	1A	3225	1/1	0.92	0.43	44,44,44,44	0
56	MG	2A	3541	1/1	0.92	0.14	35,35,35,35	0
56	MG	1A	4170	1/1	0.92	0.19	44,44,44,44	0
56	MG	1a	1869	1/1	0.92	0.08	66,66,66,66	0
56	MG	2A	3882	1/1	0.92	0.06	67,67,67,67	0
56	MG	1A	3805	1/1	0.92	0.17	61,61,61,61	0
56	MG	1A	3695	1/1	0.92	0.19	31,31,31,31	0
56	MG	2a	1768	1/1	0.92	0.11	72,72,72,72	0
56	MG	10	102	1/1	0.92	0.13	52,52,52,52	0
56	MG	1A	3288	1/1	0.92	0.46	52,52,52,52	0
56	MG	2a	1772	1/1	0.92	0.06	75,75,75,75	0
56	MG	1A	3461	1/1	0.92	0.20	58,58,58,58	0
56	MG	2A	3558	1/1	0.92	0.11	36,36,36,36	0
56	MG	1A	3932	1/1	0.92	0.22	55,55,55,55	0
56	MG	2A	3336	1/1	0.92	0.10	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4049	1/1	0.92	0.17	36,36,36,36	0
56	MG	2a	1779	1/1	0.92	0.08	61,61,61,61	0
56	MG	1A	3703	1/1	0.92	0.10	36,36,36,36	0
56	MG	2A	3563	1/1	0.92	0.13	42,42,42,42	0
56	MG	2A	3157	1/1	0.92	0.17	56,56,56,56	0
56	MG	2A	3160	1/1	0.92	0.18	56,56,56,56	0
56	MG	2A	3574	1/1	0.92	0.16	32,32,32,32	0
56	MG	12	101	1/1	0.92	0.20	56,56,56,56	0
56	MG	2A	3164	1/1	0.92	0.10	54,54,54,54	0
56	MG	1A	3631	1/1	0.92	0.19	66,66,66,66	0
56	MG	2A	3583	1/1	0.92	0.10	38,38,38,38	0
56	MG	1A	3822	1/1	0.92	0.16	43,43,43,43	0
56	MG	2A	3169	1/1	0.92	0.10	52,52,52,52	0
56	MG	1A	3049	1/1	0.92	0.21	41,41,41,41	0
56	MG	2A	3921	1/1	0.92	0.23	38,38,38,38	0
56	MG	2a	1802	1/1	0.92	0.05	73,73,73,73	0
56	MG	1A	3463	1/1	0.92	0.15	66,66,66,66	0
56	MG	2A	3172	1/1	0.92	0.06	60,60,60,60	0
56	MG	2A	3351	1/1	0.92	0.11	50,50,50,50	0
56	MG	1A	4213	1/1	0.92	0.47	49,49,49,49	0
56	MG	1A	3081	1/1	0.92	0.32	46,46,46,46	0
56	MG	2A	3354	1/1	0.92	0.28	63,63,63,63	0
56	MG	2a	1816	1/1	0.92	0.21	71,71,71,71	0
56	MG	1A	3154	1/1	0.92	0.15	35,35,35,35	0
56	MG	2A	3613	1/1	0.92	0.31	48,48,48,48	0
56	MG	2A	3615	1/1	0.92	0.18	49,49,49,49	0
56	MG	1A	3830	1/1	0.92	0.08	57,57,57,57	0
56	MG	1A	4059	1/1	0.92	0.09	45,45,45,45	0
56	MG	2A	3362	1/1	0.92	0.12	59,59,59,59	0
56	MG	1A	3637	1/1	0.92	0.21	42,42,42,42	0
56	MG	2a	1831	1/1	0.92	0.20	75,75,75,75	0
56	MG	1A	3638	1/1	0.92	0.32	70,70,70,70	0
56	MG	2A	3628	1/1	0.92	0.15	34,34,34,34	0
56	MG	1a	1739	1/1	0.92	0.11	70,70,70,70	0
56	MG	1A	3719	1/1	0.92	0.16	47,47,47,47	0
56	MG	1a	1741	1/1	0.92	0.12	61,61,61,61	0
56	MG	2a	1841	1/1	0.92	0.17	72,72,72,72	0
56	MG	1A	4063	1/1	0.92	0.19	41,41,41,41	0
56	MG	2a	1843	1/1	0.92	0.10	64,64,64,64	0
56	MG	1A	3722	1/1	0.92	0.09	32,32,32,32	0
56	MG	2A	3640	1/1	0.92	0.12	59,59,59,59	0
56	MG	1A	3960	1/1	0.92	0.11	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2B	3016	1/1	0.92	0.18	70,70,70,70	0
56	MG	1x	101	1/1	0.92	0.08	56,56,56,56	0
56	MG	2A	3650	1/1	0.92	0.25	48,48,48,48	0
56	MG	1A	3843	1/1	0.92	0.09	49,49,49,49	0
56	MG	2f	3002	1/1	0.92	0.07	65,65,65,65	0
56	MG	1A	3963	1/1	0.92	0.17	67,67,67,67	0
56	MG	1B	3017	1/1	0.92	0.12	36,36,36,36	0
56	MG	1A	3964	1/1	0.92	0.14	46,46,46,46	0
56	MG	1A	3499	1/1	0.92	0.17	57,57,57,57	0
56	MG	1A	3738	1/1	0.92	0.19	36,36,36,36	0
56	MG	1a	1754	1/1	0.92	0.29	61,61,61,61	0
56	MG	1A	3404	1/1	0.92	0.42	55,55,55,55	0
56	MG	2A	3677	1/1	0.92	0.17	57,57,57,57	0
56	MG	2A	3680	1/1	0.92	0.12	32,32,32,32	0
56	MG	1A	3742	1/1	0.92	0.15	50,50,50,50	0
56	MG	2v	101	1/1	0.92	0.16	68,68,68,68	0
56	MG	1a	1626	1/1	0.92	0.20	62,62,62,62	0
56	MG	2A	3687	1/1	0.92	0.12	49,49,49,49	0
56	MG	1A	3503	1/1	0.92	0.50	60,60,60,60	0
56	MG	1A	3603	1/1	0.92	0.11	60,60,60,60	0
56	MG	1B	3031	1/1	0.92	0.20	54,54,54,54	0
56	MG	2A	3693	1/1	0.92	0.11	68,68,68,68	0
56	MG	2A	3394	1/1	0.92	0.34	51,51,51,51	0
56	MG	1A	3749	1/1	0.92	0.10	40,40,40,40	0
56	MG	1A	3213	1/1	0.92	0.18	60,60,60,60	0
56	MG	2A	3005	1/1	0.92	0.30	57,57,57,57	0
56	MG	2A	3008	1/1	0.92	0.10	48,48,48,48	0
56	MG	1D	301	1/1	0.92	0.25	29,29,29,29	0
56	MG	1A	3605	1/1	0.92	0.24	55,55,55,55	0
56	MG	1A	3183	1/1	0.92	0.11	59,59,59,59	0
56	MG	2A	3708	1/1	0.92	0.10	42,42,42,42	0
56	MG	2A	3223	1/1	0.92	0.09	62,62,62,62	0
56	MG	2A	3406	1/1	0.92	0.12	62,62,62,62	0
56	MG	2A	3714	1/1	0.92	0.22	60,60,60,60	0
56	MG	1A	3982	1/1	0.92	0.08	59,59,59,59	0
56	MG	1D	310	1/1	0.92	0.39	34,34,34,34	0
56	MG	2A	3025	1/1	0.92	0.34	50,50,50,50	0
56	MG	1A	3155	1/1	0.92	0.47	45,45,45,45	0
56	MG	2A	3724	1/1	0.92	0.09	55,55,55,55	0
56	MG	1A	4096	1/1	0.92	0.09	75,75,75,75	0
56	MG	1A	3985	1/1	0.92	0.16	49,49,49,49	0
56	MG	1A	4047	1/1	0.93	0.20	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3493	1/1	0.93	0.42	55,55,55,55	0
56	MG	1A	3176	1/1	0.93	0.48	42,42,42,42	0
56	MG	1A	4186	1/1	0.93	0.25	40,40,40,40	0
56	MG	1A	3828	1/1	0.93	0.19	34,34,34,34	0
56	MG	2A	3498	1/1	0.93	0.26	54,54,54,54	0
56	MG	2A	3783	1/1	0.93	0.09	46,46,46,46	0
56	MG	2A	3133	1/1	0.93	0.19	48,48,48,48	0
56	MG	2A	3136	1/1	0.93	0.10	46,46,46,46	0
56	MG	11	103	1/1	0.93	0.13	40,40,40,40	0
56	MG	1A	3182	1/1	0.93	0.41	41,41,41,41	0
56	MG	1A	4197	1/1	0.93	0.20	50,50,50,50	0
56	MG	1A	3942	1/1	0.93	0.15	52,52,52,52	0
56	MG	2A	3792	1/1	0.93	0.21	70,70,70,70	0
56	MG	2A	3793	1/1	0.93	0.12	66,66,66,66	0
56	MG	1A	3521	1/1	0.93	0.25	59,59,59,59	0
56	MG	1A	3945	1/1	0.93	0.16	43,43,43,43	0
56	MG	1a	1725	1/1	0.93	0.32	72,72,72,72	0
56	MG	15	102	1/1	0.93	0.33	44,44,44,44	0
56	MG	1A	3634	1/1	0.93	0.40	41,41,41,41	0
56	MG	2A	3514	1/1	0.93	0.09	54,54,54,54	0
56	MG	2A	3332	1/1	0.93	0.17	52,52,52,52	0
56	MG	1A	3402	1/1	0.93	0.22	65,65,65,65	0
56	MG	1A	3953	1/1	0.93	0.17	38,38,38,38	0
56	MG	1A	3730	1/1	0.93	0.21	33,33,33,33	0
56	MG	1A	3584	1/1	0.93	0.20	35,35,35,35	0
56	MG	1a	1733	1/1	0.93	0.25	74,74,74,74	0
56	MG	1v	3001	1/1	0.93	0.16	70,70,70,70	0
56	MG	1A	3085	1/1	0.93	0.61	41,41,41,41	0
56	MG	1A	3206	1/1	0.93	0.19	36,36,36,36	0
56	MG	1A	3587	1/1	0.93	0.13	67,67,67,67	0
56	MG	1a	1603	1/1	0.93	0.13	74,74,74,74	0
56	MG	1A	3442	1/1	0.93	0.17	53,53,53,53	0
56	MG	2a	1675	1/1	0.93	0.13	67,67,67,67	0
56	MG	2A	3818	1/1	0.93	0.10	51,51,51,51	0
56	MG	2a	1679	1/1	0.93	0.17	58,58,58,58	0
56	MG	1w	106	1/1	0.93	0.12	81,81,81,81	0
56	MG	2A	3180	1/1	0.93	0.12	60,60,60,60	0
56	MG	1A	3747	1/1	0.93	0.22	39,39,39,39	0
56	MG	1A	4071	1/1	0.93	0.10	58,58,58,58	0
56	MG	1B	3009	1/1	0.93	0.36	59,59,59,59	0
56	MG	1A	3124	1/1	0.93	0.44	46,46,46,46	0
56	MG	1x	102	1/1	0.93	0.14	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1B	3012	1/1	0.93	0.09	55,55,55,55	0
56	MG	1A	3855	1/1	0.93	0.06	57,57,57,57	0
56	MG	1A	4076	1/1	0.93	0.12	29,29,29,29	0
56	MG	1A	3186	1/1	0.93	0.09	72,72,72,72	0
56	MG	1A	3973	1/1	0.93	0.13	56,56,56,56	0
56	MG	2A	3360	1/1	0.93	0.08	55,55,55,55	0
56	MG	1A	3158	1/1	0.93	0.17	41,41,41,41	0
56	MG	2A	3363	1/1	0.93	0.21	71,71,71,71	0
56	MG	2A	3364	1/1	0.93	0.26	57,57,57,57	0
56	MG	2a	1705	1/1	0.93	0.18	65,65,65,65	0
56	MG	1A	3449	1/1	0.93	0.41	63,63,63,63	0
56	MG	1B	3025	1/1	0.93	0.11	43,43,43,43	0
56	MG	2a	1709	1/1	0.93	0.09	57,57,57,57	0
56	MG	2a	1711	1/1	0.93	0.11	69,69,69,69	0
56	MG	1A	3487	1/1	0.93	0.32	48,48,48,48	0
56	MG	1x	117	1/1	0.93	0.08	79,79,79,79	0
56	MG	2A	3569	1/1	0.93	0.10	69,69,69,69	0
56	MG	1A	3757	1/1	0.93	0.13	45,45,45,45	0
56	MG	1A	3600	1/1	0.93	0.23	58,58,58,58	0
56	MG	1A	3261	1/1	0.93	0.15	67,67,67,67	0
56	MG	2A	3579	1/1	0.93	0.14	30,30,30,30	0
56	MG	1y	104	1/1	0.93	0.38	79,79,79,79	0
56	MG	1A	3110	1/1	0.93	0.22	38,38,38,38	0
56	MG	2A	3375	1/1	0.93	0.22	66,66,66,66	0
56	MG	2A	3858	1/1	0.93	0.04	56,56,56,56	0
56	MG	1A	3129	1/1	0.93	0.12	34,34,34,34	0
56	MG	2A	3589	1/1	0.93	0.12	41,41,41,41	0
56	MG	2A	3590	1/1	0.93	0.08	36,36,36,36	0
56	MG	1A	3764	1/1	0.93	0.17	48,48,48,48	0
56	MG	1B	3036	1/1	0.93	0.15	38,38,38,38	0
56	MG	1a	1634	1/1	0.93	0.23	52,52,52,52	0
56	MG	2A	3381	1/1	0.93	0.19	66,66,66,66	0
56	MG	2A	3010	1/1	0.93	0.08	48,48,48,48	0
56	MG	2A	3599	1/1	0.93	0.15	42,42,42,42	0
56	MG	2A	3603	1/1	0.93	0.25	51,51,51,51	0
56	MG	1a	1768	1/1	0.93	0.28	69,69,69,69	0
56	MG	1a	1769	1/1	0.93	0.32	60,60,60,60	0
56	MG	1A	3874	1/1	0.93	0.14	33,33,33,33	0
56	MG	2A	3386	1/1	0.93	0.32	51,51,51,51	0
56	MG	1A	3654	1/1	0.93	0.38	46,46,46,46	0
56	MG	2A	3614	1/1	0.93	0.13	50,50,50,50	0
56	MG	2A	3885	1/1	0.93	0.12	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3886	1/1	0.93	0.28	67,67,67,67	0
56	MG	1A	4095	1/1	0.93	0.06	70,70,70,70	0
56	MG	1A	3212	1/1	0.93	0.17	43,43,43,43	0
56	MG	2A	3390	1/1	0.93	0.40	46,46,46,46	0
56	MG	1A	3237	1/1	0.93	0.76	45,45,45,45	0
56	MG	2A	3029	1/1	0.93	0.14	40,40,40,40	0
56	MG	2A	3894	1/1	0.93	0.08	38,38,38,38	0
56	MG	2A	3895	1/1	0.93	0.18	52,52,52,52	0
56	MG	1A	3880	1/1	0.93	0.11	55,55,55,55	0
56	MG	1A	3339	1/1	0.93	0.22	54,54,54,54	0
56	MG	1A	3238	1/1	0.93	0.27	42,42,42,42	0
56	MG	1a	1786	1/1	0.93	0.15	43,43,43,43	0
56	MG	2A	3631	1/1	0.93	0.09	51,51,51,51	0
56	MG	2A	3902	1/1	0.93	0.57	51,51,51,51	0
56	MG	2A	3632	1/1	0.93	0.13	35,35,35,35	0
56	MG	2A	3904	1/1	0.93	0.17	57,57,57,57	0
56	MG	1A	3660	1/1	0.93	0.13	54,54,54,54	0
56	MG	2A	3634	1/1	0.93	0.19	39,39,39,39	0
56	MG	1a	1646	1/1	0.93	0.24	71,71,71,71	0
56	MG	2A	3233	1/1	0.93	0.16	61,61,61,61	0
56	MG	2A	3639	1/1	0.93	0.14	39,39,39,39	0
56	MG	2A	3234	1/1	0.93	0.42	46,46,46,46	0
56	MG	2A	3643	1/1	0.93	0.13	49,49,49,49	0
56	MG	2a	1771	1/1	0.93	0.09	66,66,66,66	0
56	MG	1a	1647	1/1	0.93	0.16	62,62,62,62	0
56	MG	1A	3164	1/1	0.93	0.31	49,49,49,49	0
56	MG	1E	305	1/1	0.93	0.25	59,59,59,59	0
56	MG	2A	3652	1/1	0.93	0.19	43,43,43,43	0
56	MG	1A	3546	1/1	0.93	0.25	52,52,52,52	0
56	MG	1A	3165	1/1	0.93	0.15	53,53,53,53	0
56	MG	2A	3657	1/1	0.93	0.15	35,35,35,35	0
56	MG	1a	1802	1/1	0.93	0.12	53,53,53,53	0
56	MG	2a	1781	1/1	0.93	0.09	82,82,82,82	0
56	MG	2A	3934	1/1	0.93	0.52	44,44,44,44	0
56	MG	1A	3192	1/1	0.93	0.26	44,44,44,44	0
56	MG	1A	3100	1/1	0.93	0.22	58,58,58,58	0
56	MG	2A	3943	1/1	0.93	0.12	39,39,39,39	0
56	MG	1F	301	1/1	0.93	0.27	78,78,78,78	0
56	MG	1A	3248	1/1	0.93	0.24	59,59,59,59	0
56	MG	1A	4009	1/1	0.93	0.12	62,62,62,62	0
56	MG	1a	1662	1/1	0.93	0.13	71,71,71,71	0
56	MG	1A	4117	1/1	0.93	0.10	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3678	1/1	0.93	0.17	34,34,34,34	0
56	MG	2a	1796	1/1	0.93	0.12	71,71,71,71	0
56	MG	1A	3789	1/1	0.93	0.14	44,44,44,44	0
56	MG	1A	3277	1/1	0.93	0.31	44,44,44,44	0
56	MG	1A	3793	1/1	0.93	0.13	54,54,54,54	0
56	MG	1A	3278	1/1	0.93	0.17	59,59,59,59	0
56	MG	2A	3427	1/1	0.93	0.13	68,68,68,68	0
56	MG	2a	1809	1/1	0.93	0.26	54,54,54,54	0
56	MG	2A	3258	1/1	0.93	0.10	59,59,59,59	0
56	MG	1A	3557	1/1	0.93	0.34	61,61,61,61	0
56	MG	1A	3619	1/1	0.93	0.28	63,63,63,63	0
56	MG	2A	3696	1/1	0.93	0.11	72,72,72,72	0
56	MG	1A	4128	1/1	0.93	0.14	52,52,52,52	0
56	MG	2B	3020	1/1	0.93	0.08	76,76,76,76	0
56	MG	2a	1818	1/1	0.93	0.23	64,64,64,64	0
56	MG	2D	302	1/1	0.93	0.22	58,58,58,58	0
56	MG	1a	1673	1/1	0.93	0.21	74,74,74,74	0
56	MG	2A	3699	1/1	0.93	0.07	61,61,61,61	0
56	MG	1a	1674	1/1	0.93	0.18	74,74,74,74	0
56	MG	2a	1827	1/1	0.93	0.11	74,74,74,74	0
56	MG	1A	3907	1/1	0.93	0.14	67,67,67,67	0
56	MG	2A	3267	1/1	0.93	0.13	52,52,52,52	0
56	MG	2E	307	1/1	0.93	0.36	49,49,49,49	0
56	MG	1A	3249	1/1	0.93	0.39	41,41,41,41	0
56	MG	1a	1678	1/1	0.93	0.10	58,58,58,58	0
56	MG	2A	3082	1/1	0.93	0.28	50,50,50,50	0
56	MG	2A	3083	1/1	0.93	0.17	46,46,46,46	0
56	MG	1A	3197	1/1	0.93	0.44	45,45,45,45	0
56	MG	1A	3323	1/1	0.93	0.32	41,41,41,41	0
56	MG	1A	4022	1/1	0.93	0.08	68,68,68,68	0
56	MG	2P	201	1/1	0.93	0.09	45,45,45,45	0
56	MG	1A	3913	1/1	0.93	0.34	43,43,43,43	0
56	MG	1A	3697	1/1	0.93	0.09	59,59,59,59	0
56	MG	1A	4143	1/1	0.93	0.14	48,48,48,48	0
56	MG	2a	1850	1/1	0.93	0.08	55,55,55,55	0
56	MG	2Q	3003	1/1	0.93	0.16	51,51,51,51	0
56	MG	2a	1854	1/1	0.93	0.23	58,58,58,58	0
56	MG	2Q	3004	1/1	0.93	0.17	61,61,61,61	0
56	MG	1A	3394	1/1	0.93	0.35	35,35,35,35	0
56	MG	1A	3809	1/1	0.93	0.09	44,44,44,44	0
56	MG	2A	3460	1/1	0.93	0.11	65,65,65,65	0
56	MG	2T	202	1/1	0.93	0.21	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3810	1/1	0.93	0.25	63,63,63,63	0
56	MG	2X	101	1/1	0.93	0.15	52,52,52,52	0
56	MG	2I	203	1/1	0.93	0.14	76,76,76,76	0
56	MG	2A	3733	1/1	0.93	0.19	48,48,48,48	0
56	MG	1A	3510	1/1	0.93	0.24	52,52,52,52	0
56	MG	23	102	1/1	0.93	0.24	53,53,53,53	0
56	MG	25	101	1/1	0.93	0.11	49,49,49,49	0
56	MG	2A	3735	1/1	0.93	0.07	44,44,44,44	0
56	MG	1A	4154	1/1	0.93	0.41	49,49,49,49	0
56	MG	1A	4155	1/1	0.93	0.20	48,48,48,48	0
56	MG	2A	3468	1/1	0.93	0.27	56,56,56,56	0
56	MG	2A	3742	1/1	0.93	0.11	34,34,34,34	0
56	MG	1A	3471	1/1	0.93	0.27	50,50,50,50	0
56	MG	2a	1605	1/1	0.93	0.17	64,64,64,64	0
56	MG	2w	101	1/1	0.93	0.23	66,66,66,66	0
56	MG	1A	4034	1/1	0.93	0.20	42,42,42,42	0
56	MG	2a	1607	1/1	0.93	0.14	77,77,77,77	0
56	MG	1A	3816	1/1	0.93	0.21	23,23,23,23	0
56	MG	1A	3102	1/1	0.93	0.28	41,41,41,41	0
56	MG	2A	3104	1/1	0.93	0.21	57,57,57,57	0
56	MG	2w	108	1/1	0.93	0.19	70,70,70,70	0
56	MG	1A	3045	1/1	0.93	0.14	38,38,38,38	0
56	MG	2A	3754	1/1	0.93	0.09	54,54,54,54	0
56	MG	1U	205	1/1	0.93	0.35	33,33,33,33	0
56	MG	1A	3821	1/1	0.93	0.22	34,34,34,34	0
56	MG	1A	3931	1/1	0.93	0.39	46,46,46,46	0
56	MG	2a	1619	1/1	0.93	0.13	62,62,62,62	0
56	MG	1A	3711	1/1	0.93	0.14	68,68,68,68	0
56	MG	1W	202	1/1	0.93	0.15	50,50,50,50	0
56	MG	1A	3572	1/1	0.93	0.21	37,37,37,37	0
56	MG	2A	3765	1/1	0.93	0.14	67,67,67,67	0
56	MG	1A	3433	1/1	0.93	0.10	46,46,46,46	0
56	MG	2A	3767	1/1	0.93	0.34	53,53,53,53	0
56	MG	1A	4171	1/1	0.93	0.19	41,41,41,41	0
56	MG	1A	3515	1/1	0.93	0.21	46,46,46,46	0
56	MG	1A	4045	1/1	0.93	0.19	27,27,27,27	0
56	MG	2A	3773	1/1	0.93	0.61	48,48,48,48	0
56	MG	1A	4046	1/1	0.93	0.17	31,31,31,31	0
56	MG	1a	1625	1/1	0.94	0.26	50,50,50,50	0
56	MG	1A	3013	1/1	0.94	0.28	33,33,33,33	0
56	MG	2A	3459	1/1	0.94	0.11	49,49,49,49	0
56	MG	2A	3041	1/1	0.94	0.17	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3461	1/1	0.94	0.25	60,60,60,60	0
56	MG	2A	3755	1/1	0.94	0.10	76,76,76,76	0
56	MG	2A	3254	1/1	0.94	0.19	49,49,49,49	0
56	MG	1A	3944	1/1	0.94	0.20	34,34,34,34	0
56	MG	2A	3465	1/1	0.94	0.09	53,53,53,53	0
56	MG	2A	3044	1/1	0.94	0.09	52,52,52,52	0
56	MG	1A	3316	1/1	0.94	0.26	56,56,56,56	0
56	MG	1A	4066	1/1	0.94	0.17	19,19,19,19	0
56	MG	1a	1781	1/1	0.94	0.14	48,48,48,48	0
56	MG	1A	3946	1/1	0.94	0.23	36,36,36,36	0
56	MG	2A	3051	1/1	0.94	0.17	51,51,51,51	0
56	MG	1A	3400	1/1	0.94	0.29	68,68,68,68	0
56	MG	1B	3018	1/1	0.94	0.35	30,30,30,30	0
56	MG	2A	3771	1/1	0.94	0.09	41,41,41,41	0
56	MG	2a	1640	1/1	0.94	0.21	49,49,49,49	0
56	MG	2A	3054	1/1	0.94	0.10	55,55,55,55	0
56	MG	1A	3008	1/1	0.94	0.22	31,31,31,31	0
56	MG	1B	3021	1/1	0.94	0.21	65,65,65,65	0
56	MG	1a	1795	1/1	0.94	0.09	75,75,75,75	0
56	MG	1A	3951	1/1	0.94	0.27	38,38,38,38	0
56	MG	1A	3952	1/1	0.94	0.13	55,55,55,55	0
56	MG	1A	3280	1/1	0.94	0.18	31,31,31,31	0
56	MG	2a	1652	1/1	0.94	0.15	61,61,61,61	0
56	MG	1A	3160	1/1	0.94	0.38	38,38,38,38	0
56	MG	2A	3781	1/1	0.94	0.07	66,66,66,66	0
56	MG	1A	3713	1/1	0.94	0.16	32,32,32,32	0
56	MG	2A	3486	1/1	0.94	0.13	64,64,64,64	0
56	MG	1A	4082	1/1	0.94	0.18	46,46,46,46	0
56	MG	1a	1805	1/1	0.94	0.07	65,65,65,65	0
56	MG	2A	3787	1/1	0.94	0.11	36,36,36,36	0
56	MG	1A	3957	1/1	0.94	0.11	42,42,42,42	0
56	MG	2A	3070	1/1	0.94	0.10	41,41,41,41	0
56	MG	1A	3836	1/1	0.94	0.23	70,70,70,70	0
56	MG	1A	3283	1/1	0.94	0.47	45,45,45,45	0
56	MG	1A	3322	1/1	0.94	0.28	46,46,46,46	0
56	MG	1a	1812	1/1	0.94	0.11	72,72,72,72	0
56	MG	1A	3841	1/1	0.94	0.07	55,55,55,55	0
56	MG	1A	3285	1/1	0.94	0.32	40,40,40,40	0
56	MG	1A	3064	1/1	0.94	0.24	44,44,44,44	0
56	MG	2A	3797	1/1	0.94	0.07	56,56,56,56	0
56	MG	1A	3138	1/1	0.94	0.45	40,40,40,40	0
56	MG	2A	3081	1/1	0.94	0.10	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3503	1/1	0.94	0.09	63,63,63,63	0
56	MG	2A	3505	1/1	0.94	0.17	59,59,59,59	0
56	MG	2A	3506	1/1	0.94	0.07	61,61,61,61	0
56	MG	2A	3804	1/1	0.94	0.09	53,53,53,53	0
56	MG	1D	307	1/1	0.94	0.25	41,41,41,41	0
56	MG	1A	3970	1/1	0.94	0.17	54,54,54,54	0
56	MG	2A	3807	1/1	0.94	0.09	41,41,41,41	0
56	MG	1D	309	1/1	0.94	0.12	43,43,43,43	0
56	MG	1A	3721	1/1	0.94	0.20	30,30,30,30	0
56	MG	2A	3297	1/1	0.94	0.10	67,67,67,67	0
56	MG	1a	1823	1/1	0.94	0.12	57,57,57,57	0
56	MG	2a	1686	1/1	0.94	0.08	68,68,68,68	0
56	MG	1A	3850	1/1	0.94	0.21	30,30,30,30	0
56	MG	1A	3502	1/1	0.94	0.16	50,50,50,50	0
56	MG	2a	1690	1/1	0.94	0.12	65,65,65,65	0
56	MG	1A	3725	1/1	0.94	0.14	35,35,35,35	0
56	MG	1A	4097	1/1	0.94	0.21	50,50,50,50	0
56	MG	2A	3518	1/1	0.94	0.11	36,36,36,36	0
56	MG	1a	1664	1/1	0.94	0.09	52,52,52,52	0
56	MG	2A	3305	1/1	0.94	0.13	57,57,57,57	0
56	MG	2a	1698	1/1	0.94	0.10	60,60,60,60	0
56	MG	2A	3822	1/1	0.94	0.07	73,73,73,73	0
56	MG	2a	1700	1/1	0.94	0.23	59,59,59,59	0
56	MG	2A	3306	1/1	0.94	0.09	51,51,51,51	0
56	MG	1A	3290	1/1	0.94	0.21	56,56,56,56	0
56	MG	1A	3143	1/1	0.94	0.07	59,59,59,59	0
56	MG	1A	3732	1/1	0.94	0.20	33,33,33,33	0
56	MG	1A	4103	1/1	0.94	0.08	52,52,52,52	0
56	MG	2A	3828	1/1	0.94	0.18	60,60,60,60	0
56	MG	2A	3528	1/1	0.94	0.08	54,54,54,54	0
56	MG	1A	3737	1/1	0.94	0.23	30,30,30,30	0
56	MG	2a	1712	1/1	0.94	0.06	69,69,69,69	0
56	MG	2A	3831	1/1	0.94	0.15	58,58,58,58	0
56	MG	2A	3833	1/1	0.94	0.08	68,68,68,68	0
56	MG	1A	4105	1/1	0.94	0.06	41,41,41,41	0
56	MG	1A	3980	1/1	0.94	0.11	57,57,57,57	0
56	MG	1a	1837	1/1	0.94	0.17	53,53,53,53	0
56	MG	1A	3025	1/1	0.94	0.09	54,54,54,54	0
56	MG	1A	3168	1/1	0.94	0.16	36,36,36,36	0
56	MG	2A	3323	1/1	0.94	0.07	60,60,60,60	0
56	MG	2A	3107	1/1	0.94	0.12	36,36,36,36	0
56	MG	1A	4109	1/1	0.94	0.13	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3110	1/1	0.94	0.19	38,38,38,38	0
56	MG	2A	3545	1/1	0.94	0.08	52,52,52,52	0
56	MG	1A	3567	1/1	0.94	0.22	31,31,31,31	0
56	MG	2A	3848	1/1	0.94	0.11	69,69,69,69	0
56	MG	1A	3568	1/1	0.94	0.24	54,54,54,54	0
56	MG	1A	4112	1/1	0.94	0.10	49,49,49,49	0
56	MG	1A	3865	1/1	0.94	0.11	51,51,51,51	0
56	MG	1A	3744	1/1	0.94	0.20	28,28,28,28	0
56	MG	2a	1733	1/1	0.94	0.15	48,48,48,48	0
56	MG	1A	3114	1/1	0.94	0.33	54,54,54,54	0
56	MG	1A	3204	1/1	0.94	0.13	32,32,32,32	0
56	MG	1A	4118	1/1	0.94	0.11	42,42,42,42	0
56	MG	1A	3146	1/1	0.94	0.26	35,35,35,35	0
56	MG	2A	3123	1/1	0.94	0.22	64,64,64,64	0
56	MG	1A	3465	1/1	0.94	0.19	46,46,46,46	0
56	MG	2A	3860	1/1	0.94	0.12	38,38,38,38	0
56	MG	1A	3174	1/1	0.94	0.18	47,47,47,47	0
56	MG	1A	3020	1/1	0.94	0.15	26,26,26,26	0
56	MG	2A	3567	1/1	0.94	0.18	40,40,40,40	0
56	MG	1A	4001	1/1	0.94	0.16	28,28,28,28	0
56	MG	2A	3869	1/1	0.94	0.09	43,43,43,43	0
56	MG	2a	1746	1/1	0.94	0.20	71,71,71,71	0
56	MG	1A	3468	1/1	0.94	0.19	61,61,61,61	0
56	MG	1A	4126	1/1	0.94	0.04	69,69,69,69	0
56	MG	2A	3874	1/1	0.94	0.24	66,66,66,66	0
56	MG	2A	3134	1/1	0.94	0.08	37,37,37,37	0
56	MG	1O	3006	1/1	0.94	0.14	83,83,83,83	0
56	MG	2A	3137	1/1	0.94	0.33	46,46,46,46	0
56	MG	1a	1694	1/1	0.94	0.25	57,57,57,57	0
56	MG	1A	3181	1/1	0.94	0.15	38,38,38,38	0
56	MG	2A	3584	1/1	0.94	0.10	38,38,38,38	0
56	MG	2A	3145	1/1	0.94	0.12	66,66,66,66	0
56	MG	2A	3349	1/1	0.94	0.08	64,64,64,64	0
56	MG	1a	1865	1/1	0.94	0.14	55,55,55,55	0
56	MG	2A	3591	1/1	0.94	0.13	36,36,36,36	0
56	MG	1A	3879	1/1	0.94	0.13	46,46,46,46	0
56	MG	1A	4006	1/1	0.94	0.16	57,57,57,57	0
56	MG	1A	3582	1/1	0.94	0.20	43,43,43,43	0
56	MG	1R	201	1/1	0.94	0.18	50,50,50,50	0
56	MG	1A	3470	1/1	0.94	0.10	63,63,63,63	0
56	MG	2A	3156	1/1	0.94	0.14	46,46,46,46	0
56	MG	1A	3518	1/1	0.94	0.27	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3361	1/1	0.94	0.10	58,58,58,58	0
56	MG	1a	1876	1/1	0.94	0.09	74,74,74,74	0
56	MG	1A	3519	1/1	0.94	0.29	42,42,42,42	0
56	MG	1a	1878	1/1	0.94	0.28	64,64,64,64	0
56	MG	1A	3119	1/1	0.94	0.21	46,46,46,46	0
56	MG	1a	1881	1/1	0.94	0.14	47,47,47,47	0
56	MG	2A	3168	1/1	0.94	0.18	36,36,36,36	0
56	MG	1A	3650	1/1	0.94	0.13	52,52,52,52	0
56	MG	1A	3588	1/1	0.94	0.10	49,49,49,49	0
56	MG	1A	3303	1/1	0.94	0.38	38,38,38,38	0
56	MG	2A	3906	1/1	0.94	0.13	52,52,52,52	0
56	MG	1A	3590	1/1	0.94	0.10	71,71,71,71	0
56	MG	1A	3895	1/1	0.94	0.25	53,53,53,53	0
56	MG	1A	3379	1/1	0.94	0.17	65,65,65,65	0
56	MG	1U	208	1/1	0.94	0.42	44,44,44,44	0
56	MG	1A	3058	1/1	0.94	0.31	49,49,49,49	0
56	MG	2A	3181	1/1	0.94	0.27	53,53,53,53	0
56	MG	1A	3656	1/1	0.94	0.09	70,70,70,70	0
56	MG	1A	3594	1/1	0.94	0.30	32,32,32,32	0
56	MG	1a	1718	1/1	0.94	0.26	51,51,51,51	0
56	MG	1A	3595	1/1	0.94	0.22	59,59,59,59	0
56	MG	2A	3188	1/1	0.94	0.22	66,66,66,66	0
56	MG	2A	3637	1/1	0.94	0.17	66,66,66,66	0
56	MG	1t	3001	1/1	0.94	0.14	56,56,56,56	0
56	MG	1A	3526	1/1	0.94	0.52	48,48,48,48	0
56	MG	2A	3641	1/1	0.94	0.10	43,43,43,43	0
56	MG	2a	1806	1/1	0.94	0.24	73,73,73,73	0
56	MG	2A	3642	1/1	0.94	0.20	46,46,46,46	0
56	MG	1A	3151	1/1	0.94	0.23	38,38,38,38	0
56	MG	1A	3905	1/1	0.94	0.20	21,21,21,21	0
56	MG	1Z	301	1/1	0.94	0.32	46,46,46,46	0
56	MG	1A	3598	1/1	0.94	0.27	51,51,51,51	0
56	MG	1A	3384	1/1	0.94	0.15	43,43,43,43	0
56	MG	1A	3243	1/1	0.94	0.32	45,45,45,45	0
56	MG	1A	3343	1/1	0.94	0.21	65,65,65,65	0
56	MG	2B	3005	1/1	0.94	0.17	68,68,68,68	0
56	MG	10	105	1/1	0.94	0.19	63,63,63,63	0
56	MG	1A	3911	1/1	0.94	0.12	43,43,43,43	0
56	MG	1A	3792	1/1	0.94	0.16	47,47,47,47	0
56	MG	2a	1823	1/1	0.94	0.19	68,68,68,68	0
56	MG	2a	1825	1/1	0.94	0.15	76,76,76,76	0
56	MG	2B	3009	1/1	0.94	0.14	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2A	3397	1/1	0.94	0.20	40,40,40,40	0
56	MG	1A	3666	1/1	0.94	0.13	59,59,59,59	0
56	MG	2A	3672	1/1	0.94	0.10	61,61,61,61	0
56	MG	1A	3668	1/1	0.94	0.21	47,47,47,47	0
56	MG	2A	3401	1/1	0.94	0.22	45,45,45,45	0
56	MG	1A	3669	1/1	0.94	0.14	45,45,45,45	0
56	MG	1A	3917	1/1	0.94	0.10	64,64,64,64	0
56	MG	2a	1835	1/1	0.94	0.22	77,77,77,77	0
56	MG	2A	3206	1/1	0.94	0.10	48,48,48,48	0
56	MG	2A	3682	1/1	0.94	0.08	46,46,46,46	0
56	MG	2a	1838	1/1	0.94	0.18	58,58,58,58	0
56	MG	2D	301	1/1	0.94	0.17	46,46,46,46	0
56	MG	2A	3684	1/1	0.94	0.28	52,52,52,52	0
56	MG	2D	304	1/1	0.94	0.81	45,45,45,45	0
56	MG	1a	1736	1/1	0.94	0.12	65,65,65,65	0
56	MG	1A	3387	1/1	0.94	0.19	32,32,32,32	0
56	MG	1A	3388	1/1	0.94	0.27	45,45,45,45	0
56	MG	2a	1849	1/1	0.94	0.20	82,82,82,82	0
56	MG	1A	3677	1/1	0.94	0.18	51,51,51,51	0
56	MG	16	101	1/1	0.94	0.26	62,62,62,62	0
56	MG	2A	3692	1/1	0.94	0.06	59,59,59,59	0
56	MG	1A	4193	1/1	0.94	0.14	41,41,41,41	0
56	MG	1A	4194	1/1	0.94	0.35	47,47,47,47	0
56	MG	1A	3073	1/1	0.94	0.13	29,29,29,29	0
56	MG	1A	3059	1/1	0.94	0.10	65,65,65,65	0
56	MG	2A	3219	1/1	0.94	0.45	49,49,49,49	0
56	MG	2F	307	1/1	0.94	0.69	53,53,53,53	0
56	MG	1A	3391	1/1	0.94	0.16	52,52,52,52	0
56	MG	2A	3419	1/1	0.94	0.20	58,58,58,58	0
56	MG	2n	101	1/1	0.94	0.15	74,74,74,74	0
56	MG	1A	4201	1/1	0.94	0.54	43,43,43,43	0
56	MG	1A	3350	1/1	0.94	0.24	48,48,48,48	0
56	MG	1A	3101	1/1	0.94	0.17	30,30,30,30	0
56	MG	2A	3705	1/1	0.94	0.08	59,59,59,59	0
56	MG	1A	4210	1/1	0.94	0.32	45,45,45,45	0
56	MG	1A	3688	1/1	0.94	0.17	35,35,35,35	0
56	MG	1A	3690	1/1	0.94	0.19	31,31,31,31	0
56	MG	2A	3228	1/1	0.94	0.12	59,59,59,59	0
56	MG	1A	3813	1/1	0.94	0.19	16,16,16,16	0
56	MG	2T	201	1/1	0.94	0.49	64,64,64,64	0
56	MG	2A	3716	1/1	0.94	0.08	46,46,46,46	0
56	MG	2A	3011	1/1	0.94	0.09	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1a	1607	1/1	0.94	0.12	58,58,58,58	0
56	MG	2Z	8001	1/1	0.94	0.14	79,79,79,79	0
56	MG	1A	4217	1/1	0.94	0.42	47,47,47,47	0
56	MG	1A	3539	1/1	0.94	0.32	56,56,56,56	0
56	MG	2A	3020	1/1	0.94	0.13	34,34,34,34	0
56	MG	2A	3021	1/1	0.94	0.23	40,40,40,40	0
56	MG	2A	3238	1/1	0.94	0.70	56,56,56,56	0
56	MG	1A	3817	1/1	0.94	0.13	45,45,45,45	0
56	MG	2A	3730	1/1	0.94	0.12	31,31,31,31	0
56	MG	2a	1601	1/1	0.94	0.23	59,59,59,59	0
56	MG	1A	4226	1/1	0.94	0.14	42,42,42,42	0
56	MG	1A	3540	1/1	0.94	0.13	53,53,53,53	0
56	MG	2A	3026	1/1	0.94	0.14	37,37,37,37	0
56	MG	1A	4056	1/1	0.94	0.17	44,44,44,44	0
56	MG	1a	1616	1/1	0.94	0.09	55,55,55,55	0
56	MG	2A	3738	1/1	0.94	0.06	57,57,57,57	0
56	MG	1A	3274	1/1	0.94	0.36	55,55,55,55	0
56	MG	2a	1609	1/1	0.94	0.17	68,68,68,68	0
56	MG	1A	3542	1/1	0.94	0.26	47,47,47,47	0
56	MG	1A	3941	1/1	0.94	0.19	52,52,52,52	0
58	CPT	1A	4181	3/5	0.94	0.19	61,61,64,93	3
56	MG	2A	3743	1/1	0.94	0.11	71,71,71,71	0
56	MG	2A	3249	1/1	0.94	0.40	59,59,59,59	0
56	MG	1A	3075	1/1	0.94	0.33	48,48,48,48	0
56	MG	1a	1644	1/1	0.95	0.14	48,48,48,48	0
56	MG	2A	3001	1/1	0.95	0.28	61,61,61,61	0
56	MG	2A	3572	1/1	0.95	0.18	43,43,43,43	0
56	MG	2A	3573	1/1	0.95	0.10	38,38,38,38	0
56	MG	1A	3310	1/1	0.95	0.14	35,35,35,35	0
56	MG	1a	1776	1/1	0.95	0.13	50,50,50,50	0
56	MG	1A	3962	1/1	0.95	0.18	34,34,34,34	0
56	MG	2A	3580	1/1	0.95	0.16	31,31,31,31	0
56	MG	1a	1780	1/1	0.95	0.20	51,51,51,51	0
56	MG	1A	3443	1/1	0.95	0.18	49,49,49,49	0
56	MG	2A	3373	1/1	0.95	0.15	60,60,60,60	0
56	MG	1a	1648	1/1	0.95	0.16	53,53,53,53	0
56	MG	2A	3587	1/1	0.95	0.11	46,46,46,46	0
56	MG	1A	3705	1/1	0.95	0.16	42,42,42,42	0
56	MG	1A	3790	1/1	0.95	0.21	45,45,45,45	0
56	MG	1a	1789	1/1	0.95	0.10	59,59,59,59	0
56	MG	1A	3707	1/1	0.95	0.05	42,42,42,42	0
56	MG	1A	3967	1/1	0.95	0.27	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1793	1/1	0.95	0.13	47,47,47,47	0
56	MG	1a	1656	1/1	0.95	0.10	66,66,66,66	0
56	MG	2A	3843	1/1	0.95	0.10	53,53,53,53	0
56	MG	2A	3024	1/1	0.95	1.09	53,53,53,53	0
56	MG	1A	3969	1/1	0.95	0.15	44,44,44,44	0
56	MG	1A	3226	1/1	0.95	0.21	51,51,51,51	0
56	MG	1A	3710	1/1	0.95	0.14	44,44,44,44	0
56	MG	1A	3082	1/1	0.95	0.22	46,46,46,46	0
56	MG	1A	4065	1/1	0.95	0.21	32,32,32,32	0
56	MG	1A	3646	1/1	0.95	0.18	35,35,35,35	0
56	MG	2A	3611	1/1	0.95	0.12	46,46,46,46	0
56	MG	2A	3854	1/1	0.95	0.09	44,44,44,44	0
56	MG	2A	3033	1/1	0.95	0.09	47,47,47,47	0
56	MG	1P	202	1/1	0.95	0.24	29,29,29,29	0
56	MG	2a	1693	1/1	0.95	0.16	73,73,73,73	0
56	MG	2A	3035	1/1	0.95	0.11	43,43,43,43	0
56	MG	1A	3647	1/1	0.95	0.29	53,53,53,53	0
56	MG	1Q	202	1/1	0.95	0.24	46,46,46,46	0
56	MG	2A	3220	1/1	0.95	0.10	52,52,52,52	0
56	MG	1A	3887	1/1	0.95	0.16	58,58,58,58	0
56	MG	2A	3864	1/1	0.95	0.11	58,58,58,58	0
56	MG	2A	3865	1/1	0.95	0.11	53,53,53,53	0
56	MG	2A	3398	1/1	0.95	0.24	58,58,58,58	0
56	MG	2A	3623	1/1	0.95	0.09	49,49,49,49	0
56	MG	2A	3624	1/1	0.95	0.17	43,43,43,43	0
56	MG	1A	3889	1/1	0.95	0.14	42,42,42,42	0
56	MG	2A	3042	1/1	0.95	0.12	55,55,55,55	0
56	MG	2A	3871	1/1	0.95	0.15	53,53,53,53	0
56	MG	1a	1810	1/1	0.95	0.12	55,55,55,55	0
56	MG	1A	4191	1/1	0.95	0.16	45,45,45,45	0
56	MG	1A	3800	1/1	0.95	0.20	59,59,59,59	0
56	MG	1A	3340	1/1	0.95	0.18	52,52,52,52	0
56	MG	1A	3153	1/1	0.95	0.29	49,49,49,49	0
56	MG	1S	3001	1/1	0.95	0.70	54,54,54,54	0
56	MG	2A	3407	1/1	0.95	0.08	69,69,69,69	0
56	MG	1S	3002	1/1	0.95	0.36	61,61,61,61	0
56	MG	1A	3139	1/1	0.95	0.09	36,36,36,36	0
56	MG	2a	1721	1/1	0.95	0.09	69,69,69,69	0
56	MG	1A	4199	1/1	0.95	0.23	41,41,41,41	0
56	MG	1A	4079	1/1	0.95	0.07	46,46,46,46	0
56	MG	2A	3412	1/1	0.95	0.30	48,48,48,48	0
56	MG	2A	3413	1/1	0.95	0.10	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1822	1/1	0.95	0.12	64,64,64,64	0
56	MG	1A	3520	1/1	0.95	0.16	61,61,61,61	0
56	MG	1A	3232	1/1	0.95	0.41	47,47,47,47	0
56	MG	2A	3890	1/1	0.95	0.17	31,31,31,31	0
56	MG	2A	3891	1/1	0.95	0.11	54,54,54,54	0
56	MG	2A	3648	1/1	0.95	0.10	56,56,56,56	0
56	MG	2A	3649	1/1	0.95	0.21	36,36,36,36	0
56	MG	1A	3564	1/1	0.95	0.13	56,56,56,56	0
56	MG	2A	3059	1/1	0.95	0.13	49,49,49,49	0
56	MG	2A	3653	1/1	0.95	0.12	39,39,39,39	0
56	MG	1A	3140	1/1	0.95	0.27	47,47,47,47	0
56	MG	2A	3062	1/1	0.95	0.17	56,56,56,56	0
56	MG	1A	3900	1/1	0.95	0.07	56,56,56,56	0
56	MG	1A	3317	1/1	0.95	0.32	63,63,63,63	0
56	MG	1A	3727	1/1	0.95	0.13	25,25,25,25	0
56	MG	2A	3066	1/1	0.95	0.11	46,46,46,46	0
56	MG	1A	3728	1/1	0.95	0.19	32,32,32,32	0
56	MG	1A	3348	1/1	0.95	0.40	60,60,60,60	0
56	MG	1A	4222	1/1	0.95	0.23	45,45,45,45	0
56	MG	1a	1688	1/1	0.95	0.17	69,69,69,69	0
56	MG	2A	3675	1/1	0.95	0.10	49,49,49,49	0
56	MG	1a	1689	1/1	0.95	0.27	42,42,42,42	0
56	MG	1X	103	1/1	0.95	0.40	45,45,45,45	0
56	MG	1A	3289	1/1	0.95	0.10	49,49,49,49	0
56	MG	1A	4225	1/1	0.95	0.20	58,58,58,58	0
56	MG	2A	3075	1/1	0.95	0.19	29,29,29,29	0
56	MG	2A	3435	1/1	0.95	0.27	40,40,40,40	0
56	MG	1A	3005	1/1	0.95	0.13	50,50,50,50	0
56	MG	1Y	204	1/1	0.95	0.10	71,71,71,71	0
56	MG	1A	3574	1/1	0.95	0.18	43,43,43,43	0
56	MG	1A	3235	1/1	0.95	0.14	53,53,53,53	0
56	MG	1A	3196	1/1	0.95	0.44	36,36,36,36	0
56	MG	10	101	1/1	0.95	0.08	45,45,45,45	0
56	MG	1B	3005	1/1	0.95	0.11	40,40,40,40	0
56	MG	1A	4004	1/1	0.95	0.21	61,61,61,61	0
56	MG	2A	3450	1/1	0.95	0.16	49,49,49,49	0
56	MG	2A	3941	1/1	0.95	0.13	28,28,28,28	0
56	MG	2A	3085	1/1	0.95	0.10	56,56,56,56	0
56	MG	2A	3452	1/1	0.95	0.33	61,61,61,61	0
56	MG	1a	1848	1/1	0.95	0.11	47,47,47,47	0
56	MG	1A	3178	1/1	0.95	0.18	32,32,32,32	0
56	MG	1A	3421	1/1	0.95	0.32	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3067	1/1	0.95	0.26	30,30,30,30	0
56	MG	1B	3010	1/1	0.95	0.15	40,40,40,40	0
56	MG	2A	3091	1/1	0.95	0.30	42,42,42,42	0
56	MG	2A	3707	1/1	0.95	0.12	47,47,47,47	0
56	MG	1A	3125	1/1	0.95	0.48	48,48,48,48	0
56	MG	2A	3710	1/1	0.95	0.11	27,27,27,27	0
56	MG	1A	4101	1/1	0.95	0.08	48,48,48,48	0
56	MG	2A	3712	1/1	0.95	0.11	51,51,51,51	0
56	MG	1A	3915	1/1	0.95	0.08	48,48,48,48	0
56	MG	1a	1858	1/1	0.95	0.05	70,70,70,70	0
56	MG	13	101	1/1	0.95	0.28	48,48,48,48	0
56	MG	1A	3746	1/1	0.95	0.07	72,72,72,72	0
56	MG	1A	3829	1/1	0.95	0.10	37,37,37,37	0
56	MG	2A	3720	1/1	0.95	0.06	55,55,55,55	0
56	MG	2a	1788	1/1	0.95	0.13	73,73,73,73	0
56	MG	1A	3667	1/1	0.95	0.20	52,52,52,52	0
56	MG	15	103	1/1	0.95	0.09	57,57,57,57	0
56	MG	2a	1791	1/1	0.95	0.13	84,84,84,84	0
56	MG	2A	3102	1/1	0.95	0.15	32,32,32,32	0
56	MG	1A	3831	1/1	0.95	0.11	46,46,46,46	0
56	MG	1a	1866	1/1	0.95	0.06	65,65,65,65	0
56	MG	1A	3832	1/1	0.95	0.10	33,33,33,33	0
56	MG	17	101	1/1	0.95	0.09	38,38,38,38	0
56	MG	2E	303	1/1	0.95	0.12	44,44,44,44	0
56	MG	2a	1799	1/1	0.95	0.17	65,65,65,65	0
56	MG	2a	1800	1/1	0.95	0.08	74,74,74,74	0
56	MG	1B	3022	1/1	0.95	0.09	58,58,58,58	0
56	MG	2E	305	1/1	0.95	0.22	55,55,55,55	0
56	MG	2a	1803	1/1	0.95	0.13	46,46,46,46	0
56	MG	2A	3732	1/1	0.95	0.20	65,65,65,65	0
56	MG	2A	3293	1/1	0.95	0.39	55,55,55,55	0
56	MG	17	103	1/1	0.95	0.09	50,50,50,50	0
56	MG	2a	1808	1/1	0.95	0.13	56,56,56,56	0
56	MG	1A	3833	1/1	0.95	0.17	28,28,28,28	0
56	MG	1A	3241	1/1	0.95	0.15	42,42,42,42	0
56	MG	1A	3583	1/1	0.95	0.34	63,63,63,63	0
56	MG	1A	3751	1/1	0.95	0.17	47,47,47,47	0
56	MG	2a	1814	1/1	0.95	0.16	69,69,69,69	0
56	MG	19	103	1/1	0.95	0.55	64,64,64,64	0
56	MG	2A	3485	1/1	0.95	0.17	59,59,59,59	0
56	MG	1A	3839	1/1	0.95	0.14	48,48,48,48	0
56	MG	1A	3670	1/1	0.95	0.18	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3120	1/1	0.95	0.19	45,45,45,45	0
56	MG	1B	3029	1/1	0.95	0.07	64,64,64,64	0
56	MG	1A	3062	1/1	0.95	0.18	38,38,38,38	0
56	MG	1A	4023	1/1	0.95	0.18	44,44,44,44	0
56	MG	1A	4024	1/1	0.95	0.13	52,52,52,52	0
56	MG	2A	3126	1/1	0.95	0.10	55,55,55,55	0
56	MG	2A	3309	1/1	0.95	0.26	59,59,59,59	0
56	MG	2A	3310	1/1	0.95	0.88	57,57,57,57	0
56	MG	1A	3219	1/1	0.95	0.65	51,51,51,51	0
56	MG	1A	3361	1/1	0.95	0.15	58,58,58,58	0
56	MG	2A	3129	1/1	0.95	0.21	48,48,48,48	0
56	MG	2U	3003	1/1	0.95	0.65	48,48,48,48	0
56	MG	2A	3316	1/1	0.95	0.16	62,62,62,62	0
56	MG	1A	3184	1/1	0.95	0.12	65,65,65,65	0
56	MG	2A	3504	1/1	0.95	0.14	69,69,69,69	0
56	MG	1a	1737	1/1	0.95	0.09	52,52,52,52	0
56	MG	1A	4029	1/1	0.95	0.09	59,59,59,59	0
56	MG	2a	1839	1/1	0.95	0.17	59,59,59,59	0
56	MG	2a	1840	1/1	0.95	0.11	73,73,73,73	0
56	MG	1A	3679	1/1	0.95	0.23	57,57,57,57	0
56	MG	1D	306	1/1	0.95	0.22	34,34,34,34	0
56	MG	1A	3680	1/1	0.95	0.12	57,57,57,57	0
56	MG	2a	1844	1/1	0.95	0.07	72,72,72,72	0
56	MG	26	101	1/1	0.95	0.14	61,61,61,61	0
56	MG	27	101	1/1	0.95	0.10	43,43,43,43	0
56	MG	2a	1847	1/1	0.95	0.09	74,74,74,74	0
56	MG	2A	3139	1/1	0.95	0.10	48,48,48,48	0
56	MG	2A	3141	1/1	0.95	0.08	57,57,57,57	0
56	MG	1A	3395	1/1	0.95	0.29	47,47,47,47	0
56	MG	2A	3775	1/1	0.95	0.19	54,54,54,54	0
56	MG	1a	1617	1/1	0.95	0.12	46,46,46,46	0
56	MG	1A	3301	1/1	0.95	0.14	41,41,41,41	0
56	MG	1A	3765	1/1	0.95	0.13	50,50,50,50	0
56	MG	2A	3516	1/1	0.95	0.11	44,44,44,44	0
56	MG	2f	3001	1/1	0.95	0.15	45,45,45,45	0
56	MG	1A	3246	1/1	0.95	0.32	65,65,65,65	0
56	MG	1A	3686	1/1	0.95	0.18	20,20,20,20	0
56	MG	2j	8001	1/1	0.95	0.15	66,66,66,66	0
56	MG	2A	3150	1/1	0.95	0.11	64,64,64,64	0
56	MG	1a	1624	1/1	0.95	0.18	60,60,60,60	0
56	MG	2A	3152	1/1	0.95	0.20	46,46,46,46	0
56	MG	1E	301	1/1	0.95	0.19	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4131	1/1	0.95	0.19	42,42,42,42	0
56	MG	1w	109	1/1	0.95	0.09	68,68,68,68	0
56	MG	1A	3506	1/1	0.95	0.44	52,52,52,52	0
56	MG	2A	3158	1/1	0.95	0.20	37,37,37,37	0
56	MG	2A	3159	1/1	0.95	0.09	45,45,45,45	0
56	MG	1A	3507	1/1	0.95	0.22	52,52,52,52	0
56	MG	2a	1622	1/1	0.95	0.10	65,65,65,65	0
56	MG	1A	3203	1/1	0.95	0.22	45,45,45,45	0
56	MG	2A	3163	1/1	0.95	0.08	49,49,49,49	0
56	MG	1A	3949	1/1	0.95	0.10	53,53,53,53	0
56	MG	1A	3019	1/1	0.95	0.17	41,41,41,41	0
56	MG	1E	309	1/1	0.95	0.23	40,40,40,40	0
56	MG	2a	1628	1/1	0.95	0.38	61,61,61,61	0
56	MG	2A	3167	1/1	0.95	0.08	49,49,49,49	0
56	MG	2A	3799	1/1	0.95	0.05	51,51,51,51	0
56	MG	1A	3118	1/1	0.95	0.39	55,55,55,55	0
56	MG	1A	3015	1/1	0.95	0.19	39,39,39,39	0
56	MG	2A	3350	1/1	0.95	0.63	57,57,57,57	0
56	MG	1a	1764	1/1	0.95	0.06	67,67,67,67	0
56	MG	2A	3549	1/1	0.95	0.17	54,54,54,54	0
56	MG	1x	109	1/1	0.95	0.15	57,57,57,57	0
56	MG	1A	3866	1/1	0.95	0.08	67,67,67,67	0
56	MG	2a	1642	1/1	0.95	0.37	41,41,41,41	0
56	MG	2a	1643	1/1	0.95	0.09	79,79,79,79	0
56	MG	1A	3553	1/1	0.95	0.35	58,58,58,58	0
56	MG	2A	3355	1/1	0.95	0.10	57,57,57,57	0
56	MG	1F	303	1/1	0.95	0.26	38,38,38,38	0
56	MG	1a	1638	1/1	0.95	0.30	56,56,56,56	0
56	MG	1x	115	1/1	0.95	0.28	64,64,64,64	0
56	MG	1x	116	1/1	0.95	0.10	73,73,73,73	0
56	MG	1A	3780	1/1	0.95	0.10	44,44,44,44	0
56	MG	1A	3783	1/1	0.95	0.08	51,51,51,51	0
56	MG	1A	3120	1/1	0.95	0.55	49,49,49,49	0
56	MG	1A	3959	1/1	0.95	0.20	29,29,29,29	0
59	ZN	2Y	501	1/1	0.95	0.15	80,80,80,80	0
56	MG	2A	3566	1/1	0.95	0.18	37,37,37,37	0
59	ZN	29	501	1/1	0.95	0.12	67,67,67,67	0
56	MG	1A	3641	1/1	0.95	0.33	67,67,67,67	0
56	MG	2A	3644	1/1	0.96	0.20	31,31,31,31	0
56	MG	1a	1796	1/1	0.96	0.20	65,65,65,65	0
56	MG	1A	3846	1/1	0.96	0.14	65,65,65,65	0
56	MG	2A	3453	1/1	0.96	0.26	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1y	101	1/1	0.96	0.31	43,43,43,43	0
56	MG	1A	3127	1/1	0.96	0.31	41,41,41,41	0
56	MG	2A	3651	1/1	0.96	0.16	45,45,45,45	0
56	MG	1A	3230	1/1	0.96	0.29	40,40,40,40	0
56	MG	1B	3014	1/1	0.96	0.19	53,53,53,53	0
56	MG	1A	3347	1/1	0.96	0.23	51,51,51,51	0
56	MG	1A	3033	1/1	0.96	0.39	39,39,39,39	0
56	MG	1A	3349	1/1	0.96	0.52	50,50,50,50	0
56	MG	2A	3659	1/1	0.96	0.15	39,39,39,39	0
56	MG	2A	3003	1/1	0.96	0.15	40,40,40,40	0
56	MG	2a	1696	1/1	0.96	0.17	56,56,56,56	0
56	MG	10	103	1/1	0.96	0.38	49,49,49,49	0
56	MG	2A	3662	1/1	0.96	0.09	43,43,43,43	0
56	MG	1A	3009	1/1	0.96	0.19	23,23,23,23	0
56	MG	2A	3665	1/1	0.96	0.11	45,45,45,45	0
56	MG	2A	3666	1/1	0.96	0.36	47,47,47,47	0
56	MG	2A	3006	1/1	0.96	0.24	56,56,56,56	0
56	MG	2a	1703	1/1	0.96	0.19	37,37,37,37	0
56	MG	2A	3670	1/1	0.96	0.20	50,50,50,50	0
56	MG	2A	3007	1/1	0.96	0.13	48,48,48,48	0
56	MG	1A	3773	1/1	0.96	0.14	38,38,38,38	0
56	MG	2a	1707	1/1	0.96	0.23	69,69,69,69	0
56	MG	10	106	1/1	0.96	0.10	58,58,58,58	0
56	MG	2A	3311	1/1	0.96	0.17	52,52,52,52	0
56	MG	1A	3269	1/1	0.96	0.23	47,47,47,47	0
56	MG	2A	3678	1/1	0.96	0.08	53,53,53,53	0
56	MG	2A	3679	1/1	0.96	0.07	50,50,50,50	0
56	MG	2A	3014	1/1	0.96	0.23	38,38,38,38	0
56	MG	1a	1811	1/1	0.96	0.24	66,66,66,66	0
56	MG	2A	3161	1/1	0.96	0.15	53,53,53,53	0
56	MG	1A	3593	1/1	0.96	0.28	58,58,58,58	0
56	MG	1A	3104	1/1	0.96	0.17	45,45,45,45	0
56	MG	2A	3018	1/1	0.96	0.17	35,35,35,35	0
56	MG	1A	3706	1/1	0.96	0.18	37,37,37,37	0
56	MG	2A	3321	1/1	0.96	0.13	57,57,57,57	0
56	MG	1A	3038	1/1	0.96	0.73	39,39,39,39	0
56	MG	2A	3480	1/1	0.96	0.12	58,58,58,58	0
56	MG	1A	3781	1/1	0.96	0.18	55,55,55,55	0
56	MG	1A	3272	1/1	0.96	0.18	52,52,52,52	0
56	MG	2A	3483	1/1	0.96	0.50	59,59,59,59	0
56	MG	1A	3709	1/1	0.96	0.08	45,45,45,45	0
56	MG	1a	1695	1/1	0.96	0.21	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3785	1/1	0.96	0.13	23,23,23,23	0
56	MG	2A	3027	1/1	0.96	0.39	46,46,46,46	0
56	MG	2A	3488	1/1	0.96	0.27	50,50,50,50	0
56	MG	1A	3167	1/1	0.96	0.38	41,41,41,41	0
56	MG	2A	3703	1/1	0.96	0.15	78,78,78,78	0
56	MG	1A	3039	1/1	0.96	0.22	60,60,60,60	0
56	MG	2A	3177	1/1	0.96	0.13	53,53,53,53	0
56	MG	2A	3927	1/1	0.96	0.12	43,43,43,43	0
56	MG	1A	3170	1/1	0.96	0.21	58,58,58,58	0
56	MG	2A	3031	1/1	0.96	0.11	40,40,40,40	0
56	MG	2A	3495	1/1	0.96	0.12	50,50,50,50	0
56	MG	2A	3709	1/1	0.96	0.16	47,47,47,47	0
56	MG	2A	3933	1/1	0.96	0.24	47,47,47,47	0
56	MG	1A	3135	1/1	0.96	0.10	39,39,39,39	0
56	MG	2A	3182	1/1	0.96	0.18	46,46,46,46	0
56	MG	1A	3875	1/1	0.96	0.19	38,38,38,38	0
56	MG	1A	3714	1/1	0.96	0.16	35,35,35,35	0
56	MG	2A	3942	1/1	0.96	0.10	54,54,54,54	0
56	MG	2A	3185	1/1	0.96	0.11	44,44,44,44	0
56	MG	2A	3715	1/1	0.96	0.11	70,70,70,70	0
56	MG	1D	303	1/1	0.96	0.37	51,51,51,51	0
56	MG	1D	304	1/1	0.96	0.25	33,33,33,33	0
56	MG	1A	3107	1/1	0.96	0.35	40,40,40,40	0
56	MG	1A	4138	1/1	0.96	0.08	59,59,59,59	0
56	MG	2A	3721	1/1	0.96	0.14	73,73,73,73	0
56	MG	18	103	1/1	0.96	0.23	48,48,48,48	0
56	MG	1A	3279	1/1	0.96	0.41	36,36,36,36	0
56	MG	1a	1834	1/1	0.96	0.10	53,53,53,53	0
56	MG	1A	4048	1/1	0.96	0.17	25,25,25,25	0
56	MG	2A	3045	1/1	0.96	0.14	46,46,46,46	0
56	MG	1A	3500	1/1	0.96	0.21	52,52,52,52	0
56	MG	1A	3795	1/1	0.96	0.09	48,48,48,48	0
56	MG	2A	3048	1/1	0.96	0.16	31,31,31,31	0
56	MG	1A	3108	1/1	0.96	0.21	39,39,39,39	0
56	MG	2a	1765	1/1	0.96	0.07	69,69,69,69	0
56	MG	1a	1714	1/1	0.96	0.19	42,42,42,42	0
56	MG	1A	3109	1/1	0.96	0.11	51,51,51,51	0
56	MG	1A	3883	1/1	0.96	0.17	41,41,41,41	0
56	MG	1a	1717	1/1	0.96	0.14	53,53,53,53	0
56	MG	2A	3737	1/1	0.96	0.09	51,51,51,51	0
56	MG	1A	3968	1/1	0.96	0.19	32,32,32,32	0
56	MG	1A	3042	1/1	0.96	0.18	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3520	1/1	0.96	0.07	41,41,41,41	0
56	MG	2A	3521	1/1	0.96	0.14	56,56,56,56	0
56	MG	2A	3358	1/1	0.96	0.15	60,60,60,60	0
56	MG	1a	1845	1/1	0.96	0.10	50,50,50,50	0
56	MG	1A	3180	1/1	0.96	0.18	27,27,27,27	0
56	MG	1a	1609	1/1	0.96	0.06	52,52,52,52	0
56	MG	1A	3724	1/1	0.96	0.17	38,38,38,38	0
56	MG	2A	3060	1/1	0.96	0.18	55,55,55,55	0
56	MG	2A	3751	1/1	0.96	0.14	62,62,62,62	0
56	MG	2a	1784	1/1	0.96	0.09	48,48,48,48	0
56	MG	2A	3752	1/1	0.96	0.05	73,73,73,73	0
56	MG	2F	303	1/1	0.96	0.27	44,44,44,44	0
56	MG	1A	3111	1/1	0.96	0.15	43,43,43,43	0
56	MG	2A	3529	1/1	0.96	0.17	29,29,29,29	0
56	MG	1a	1612	1/1	0.96	0.14	23,23,23,23	0
56	MG	2A	3533	1/1	0.96	0.08	48,48,48,48	0
56	MG	1A	3726	1/1	0.96	0.10	42,42,42,42	0
56	MG	1a	1852	1/1	0.96	0.10	65,65,65,65	0
56	MG	2A	3216	1/1	0.96	0.12	50,50,50,50	0
56	MG	2A	3217	1/1	0.96	0.29	69,69,69,69	0
56	MG	2A	3761	1/1	0.96	0.10	55,55,55,55	0
56	MG	2a	1797	1/1	0.96	0.11	70,70,70,70	0
56	MG	2Q	3001	1/1	0.96	0.11	56,56,56,56	0
56	MG	1A	3326	1/1	0.96	0.19	60,60,60,60	0
56	MG	1A	3806	1/1	0.96	0.11	44,44,44,44	0
56	MG	1A	4165	1/1	0.96	0.33	43,43,43,43	0
56	MG	1A	3056	1/1	0.96	0.22	33,33,33,33	0
56	MG	1A	3043	1/1	0.96	0.10	38,38,38,38	0
56	MG	1A	3021	1/1	0.96	0.11	35,35,35,35	0
56	MG	2A	3546	1/1	0.96	0.17	29,29,29,29	0
56	MG	1A	3731	1/1	0.96	0.16	34,34,34,34	0
56	MG	1A	3291	1/1	0.96	0.24	54,54,54,54	0
56	MG	2A	3378	1/1	0.96	0.19	63,63,63,63	0
56	MG	1A	3733	1/1	0.96	0.17	27,27,27,27	0
56	MG	2X	102	1/1	0.96	0.16	56,56,56,56	0
56	MG	2a	1812	1/1	0.96	0.14	66,66,66,66	0
56	MG	2A	3552	1/1	0.96	0.06	52,52,52,52	0
56	MG	1A	3815	1/1	0.96	0.12	56,56,56,56	0
56	MG	20	102	1/1	0.96	0.13	58,58,58,58	0
56	MG	2A	3555	1/1	0.96	0.18	61,61,61,61	0
56	MG	1A	4072	1/1	0.96	0.16	26,26,26,26	0
56	MG	1A	3736	1/1	0.96	0.12	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3230	1/1	0.96	0.40	44,44,44,44	0
56	MG	2a	1820	1/1	0.96	0.19	73,73,73,73	0
56	MG	1A	3987	1/1	0.96	0.11	34,34,34,34	0
56	MG	1A	3251	1/1	0.96	0.21	46,46,46,46	0
56	MG	1A	3990	1/1	0.96	0.16	9,9,9,9	0
56	MG	2a	1824	1/1	0.96	0.20	72,72,72,72	0
56	MG	1a	1872	1/1	0.96	0.08	47,47,47,47	0
56	MG	1A	3116	1/1	0.96	0.31	38,38,38,38	0
56	MG	2A	3564	1/1	0.96	0.16	37,37,37,37	0
56	MG	1A	4080	1/1	0.96	0.16	35,35,35,35	0
56	MG	1a	1745	1/1	0.96	0.11	60,60,60,60	0
56	MG	1A	3739	1/1	0.96	0.16	31,31,31,31	0
56	MG	1A	4195	1/1	0.96	0.16	29,29,29,29	0
56	MG	1a	1748	1/1	0.96	0.25	69,69,69,69	0
56	MG	1A	3993	1/1	0.96	0.13	33,33,33,33	0
56	MG	1A	3117	1/1	0.96	0.23	37,37,37,37	0
56	MG	2a	1610	1/1	0.96	0.29	92,92,92,92	0
56	MG	2a	1611	1/1	0.96	0.15	75,75,75,75	0
56	MG	1A	4198	1/1	0.96	0.27	34,34,34,34	0
56	MG	1A	3618	1/1	0.96	0.21	49,49,49,49	0
56	MG	2A	3576	1/1	0.96	0.11	68,68,68,68	0
56	MG	2A	3578	1/1	0.96	0.15	45,45,45,45	0
56	MG	1A	4085	1/1	0.96	0.08	81,81,81,81	0
56	MG	1P	201	1/1	0.96	0.25	38,38,38,38	0
56	MG	1A	3077	1/1	0.96	0.21	23,23,23,23	0
56	MG	1A	3078	1/1	0.96	0.16	63,63,63,63	0
56	MG	1a	1757	1/1	0.96	0.09	69,69,69,69	0
56	MG	1A	4208	1/1	0.96	0.54	50,50,50,50	0
56	MG	2A	3585	1/1	0.96	0.07	51,51,51,51	0
56	MG	1A	3096	1/1	0.96	0.18	27,27,27,27	0
56	MG	1A	3011	1/1	0.96	0.14	42,42,42,42	0
56	MG	1A	4211	1/1	0.96	0.40	43,43,43,43	0
56	MG	2a	1853	1/1	0.96	0.17	52,52,52,52	0
56	MG	1A	3029	1/1	0.96	0.30	35,35,35,35	0
56	MG	2a	1855	1/1	0.96	0.12	46,46,46,46	0
56	MG	1A	3474	1/1	0.96	0.14	50,50,50,50	0
56	MG	1A	3475	1/1	0.96	0.15	51,51,51,51	0
56	MG	1A	3123	1/1	0.96	0.33	44,44,44,44	0
56	MG	2A	3106	1/1	0.96	0.23	50,50,50,50	0
56	MG	1A	4220	1/1	0.96	0.46	42,42,42,42	0
56	MG	2A	3596	1/1	0.96	0.18	22,22,22,22	0
56	MG	2A	3262	1/1	0.96	0.18	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3263	1/1	0.96	0.06	50,50,50,50	0
56	MG	2A	3601	1/1	0.96	0.13	58,58,58,58	0
56	MG	2a	1636	1/1	0.96	0.08	81,81,81,81	0
56	MG	2a	1637	1/1	0.96	0.14	76,76,76,76	0
56	MG	1A	3752	1/1	0.96	0.25	33,33,33,33	0
56	MG	1T	201	1/1	0.96	0.16	62,62,62,62	0
56	MG	2A	3606	1/1	0.96	0.05	56,56,56,56	0
56	MG	1A	3383	1/1	0.96	0.51	44,44,44,44	0
56	MG	2A	3112	1/1	0.96	0.11	54,54,54,54	0
56	MG	2A	3113	1/1	0.96	0.14	56,56,56,56	0
56	MG	1A	3193	1/1	0.96	0.26	36,36,36,36	0
56	MG	1A	4224	1/1	0.96	0.37	50,50,50,50	0
56	MG	1A	3524	1/1	0.96	0.30	32,32,32,32	0
56	MG	2A	3832	1/1	0.96	0.11	55,55,55,55	0
56	MG	1A	3756	1/1	0.96	0.13	24,24,24,24	0
56	MG	1B	3001	1/1	0.96	0.18	42,42,42,42	0
56	MG	2A	3618	1/1	0.96	0.12	56,56,56,56	0
56	MG	1A	3030	1/1	0.96	0.19	32,32,32,32	0
56	MG	2A	3277	1/1	0.96	0.21	64,64,64,64	0
56	MG	1a	1777	1/1	0.96	0.16	63,63,63,63	0
56	MG	1A	3195	1/1	0.96	0.42	49,49,49,49	0
56	MG	1A	3432	1/1	0.96	0.16	35,35,35,35	0
56	MG	2A	3281	1/1	0.96	0.29	54,54,54,54	0
56	MG	2A	3626	1/1	0.96	0.27	60,60,60,60	0
56	MG	2A	3627	1/1	0.96	0.08	47,47,47,47	0
56	MG	1V	202	1/1	0.96	0.05	59,59,59,59	0
56	MG	1A	3031	1/1	0.96	0.30	32,32,32,32	0
56	MG	2A	3434	1/1	0.96	0.28	49,49,49,49	0
56	MG	2A	3125	1/1	0.96	0.06	51,51,51,51	0
56	MG	1x	107	1/1	0.96	0.20	68,68,68,68	0
56	MG	2A	3439	1/1	0.96	0.23	36,36,36,36	0
56	MG	1A	3930	1/1	0.96	0.26	45,45,45,45	0
56	MG	1W	204	1/1	0.96	0.14	41,41,41,41	0
56	MG	1A	3689	1/1	0.96	0.11	49,49,49,49	0
56	MG	1a	1790	1/1	0.96	0.10	52,52,52,52	0
57	K	2A	3939	1/1	0.96	0.08	75,75,75,75	0
58	CPT	1A	4178	4/5	0.96	0.20	54,68,71,73	4
56	MG	2A	3638	1/1	0.96	0.15	52,52,52,52	0
56	MG	1A	3844	1/1	0.96	0.19	40,40,40,40	0
58	CPT	2A	3915	4/5	0.96	0.17	54,71,73,90	4
56	MG	1A	3344	1/1	0.96	0.35	49,49,49,49	0
59	ZN	14	501	1/1	0.96	0.19	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1X	105	1/1	0.96	0.17	35,35,35,35	0
56	MG	2a	1676	1/1	0.96	0.13	57,57,57,57	0
56	MG	2A	3449	1/1	0.96	0.24	56,56,56,56	0
56	MG	1A	3934	1/1	0.96	0.15	37,37,37,37	0
56	MG	1a	1797	1/1	0.97	0.20	57,57,57,57	0
56	MG	1A	3046	1/1	0.97	0.15	34,34,34,34	0
56	MG	1A	3616	1/1	0.97	0.07	51,51,51,51	0
56	MG	1A	3827	1/1	0.97	0.17	21,21,21,21	0
56	MG	1A	3134	1/1	0.97	0.19	45,45,45,45	0
56	MG	1A	3032	1/1	0.97	0.55	37,37,37,37	0
56	MG	2A	3246	1/1	0.97	0.36	40,40,40,40	0
56	MG	1A	3157	1/1	0.97	0.52	43,43,43,43	0
56	MG	2O	8001	1/1	0.97	0.14	50,50,50,50	0
56	MG	1a	1804	1/1	0.97	0.34	38,38,38,38	0
56	MG	1A	4144	1/1	0.97	0.09	53,53,53,53	0
56	MG	1A	3768	1/1	0.97	0.19	20,20,20,20	0
56	MG	2A	3655	1/1	0.97	0.26	50,50,50,50	0
56	MG	1A	4146	1/1	0.97	0.10	60,60,60,60	0
56	MG	1B	3035	1/1	0.97	0.15	66,66,66,66	0
56	MG	2A	3658	1/1	0.97	0.10	58,58,58,58	0
56	MG	1A	4148	1/1	0.97	0.25	42,42,42,42	0
56	MG	1A	3065	1/1	0.97	0.17	35,35,35,35	0
56	MG	1A	4150	1/1	0.97	0.19	30,30,30,30	0
56	MG	1A	3770	1/1	0.97	0.26	36,36,36,36	0
56	MG	2a	1754	1/1	0.97	0.11	72,72,72,72	0
56	MG	1A	3040	1/1	0.97	0.10	54,54,54,54	0
56	MG	2A	3664	1/1	0.97	0.30	45,45,45,45	0
56	MG	2U	3002	1/1	0.97	0.64	54,54,54,54	0
56	MG	1A	3835	1/1	0.97	0.17	60,60,60,60	0
56	MG	2V	201	1/1	0.97	0.12	62,62,62,62	0
56	MG	1A	3431	1/1	0.97	0.17	40,40,40,40	0
56	MG	2A	3667	1/1	0.97	0.16	53,53,53,53	0
56	MG	2A	3668	1/1	0.97	0.11	63,63,63,63	0
56	MG	1A	3983	1/1	0.97	0.15	60,60,60,60	0
56	MG	2A	3130	1/1	0.97	0.38	41,41,41,41	0
56	MG	2A	3671	1/1	0.97	0.07	30,30,30,30	0
56	MG	1A	3372	1/1	0.97	0.43	51,51,51,51	0
56	MG	1A	3838	1/1	0.97	0.06	70,70,70,70	0
56	MG	1A	3986	1/1	0.97	0.16	50,50,50,50	0
56	MG	25	104	1/1	0.97	0.36	49,49,49,49	0
56	MG	1A	4160	1/1	0.97	0.39	34,34,34,34	0
56	MG	2A	3676	1/1	0.97	0.10	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3774	1/1	0.97	0.14	44,44,44,44	0
56	MG	2A	3393	1/1	0.97	0.09	47,47,47,47	0
56	MG	1A	3664	1/1	0.97	0.11	59,59,59,59	0
56	MG	2A	3138	1/1	0.97	0.51	42,42,42,42	0
56	MG	1A	3989	1/1	0.97	0.08	58,58,58,58	0
56	MG	1A	3092	1/1	0.97	0.23	22,22,22,22	0
56	MG	2A	3683	1/1	0.97	0.11	37,37,37,37	0
56	MG	1A	3141	1/1	0.97	0.23	35,35,35,35	0
56	MG	2A	3019	1/1	0.97	0.09	40,40,40,40	0
56	MG	2A	3273	1/1	0.97	0.13	53,53,53,53	0
56	MG	2A	3274	1/1	0.97	0.07	67,67,67,67	0
56	MG	1A	3720	1/1	0.97	0.15	36,36,36,36	0
56	MG	1A	4074	1/1	0.97	0.11	31,31,31,31	0
56	MG	1A	3436	1/1	0.97	0.12	64,64,64,64	0
56	MG	1A	3142	1/1	0.97	0.21	13,13,13,13	0
56	MG	1A	3919	1/1	0.97	0.18	30,30,30,30	0
56	MG	1A	4174	1/1	0.97	0.12	53,53,53,53	0
56	MG	1A	3723	1/1	0.97	0.18	27,27,27,27	0
56	MG	1A	3014	1/1	0.97	0.14	31,31,31,31	0
56	MG	2A	3544	1/1	0.97	0.22	50,50,50,50	0
56	MG	1A	3848	1/1	0.97	0.18	52,52,52,52	0
56	MG	1F	304	1/1	0.97	0.33	36,36,36,36	0
56	MG	2A	3547	1/1	0.97	0.17	48,48,48,48	0
56	MG	2A	3863	1/1	0.97	0.10	54,54,54,54	0
56	MG	2A	3702	1/1	0.97	0.07	53,53,53,53	0
56	MG	1A	4184	1/1	0.97	0.17	57,57,57,57	0
56	MG	1A	4185	1/1	0.97	0.18	30,30,30,30	0
56	MG	1A	4000	1/1	0.97	0.09	42,42,42,42	0
56	MG	1A	3849	1/1	0.97	0.21	23,23,23,23	0
56	MG	1a	1618	1/1	0.97	0.10	40,40,40,40	0
56	MG	1a	1619	1/1	0.97	0.15	45,45,45,45	0
56	MG	2A	3554	1/1	0.97	0.14	44,44,44,44	0
56	MG	1A	3214	1/1	0.97	0.45	39,39,39,39	0
56	MG	1A	3407	1/1	0.97	0.12	50,50,50,50	0
56	MG	1G	3004	1/1	0.97	0.10	53,53,53,53	0
56	MG	1A	3928	1/1	0.97	0.22	36,36,36,36	0
56	MG	1A	3673	1/1	0.97	0.17	35,35,35,35	0
56	MG	1A	3441	1/1	0.97	0.25	44,44,44,44	0
56	MG	1A	3676	1/1	0.97	0.21	37,37,37,37	0
56	MG	2A	3717	1/1	0.97	0.05	51,51,51,51	0
56	MG	2a	1639	1/1	0.97	0.19	68,68,68,68	0
56	MG	1A	3549	1/1	0.97	0.25	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1N	204	1/1	0.97	0.50	55,55,55,55	0
56	MG	1A	3550	1/1	0.97	0.29	45,45,45,45	0
56	MG	1A	3240	1/1	0.97	0.14	34,34,34,34	0
56	MG	2A	3175	1/1	0.97	0.14	48,48,48,48	0
56	MG	1A	3552	1/1	0.97	0.26	32,32,32,32	0
56	MG	1A	4202	1/1	0.97	0.28	35,35,35,35	0
56	MG	2A	3570	1/1	0.97	0.10	43,43,43,43	0
56	MG	1O	3003	1/1	0.97	0.13	53,53,53,53	0
56	MG	1A	4204	1/1	0.97	0.23	38,38,38,38	0
56	MG	1A	4205	1/1	0.97	0.18	35,35,35,35	0
56	MG	1A	3735	1/1	0.97	0.11	52,52,52,52	0
56	MG	1a	1861	1/1	0.97	0.08	55,55,55,55	0
56	MG	2A	3437	1/1	0.97	0.35	55,55,55,55	0
56	MG	2A	3577	1/1	0.97	0.07	55,55,55,55	0
56	MG	1A	3095	1/1	0.97	0.16	36,36,36,36	0
56	MG	1A	3683	1/1	0.97	0.10	54,54,54,54	0
56	MG	2A	3899	1/1	0.97	0.19	52,52,52,52	0
56	MG	1A	3939	1/1	0.97	0.17	40,40,40,40	0
56	MG	1A	4016	1/1	0.97	0.10	62,62,62,62	0
56	MG	2A	3444	1/1	0.97	0.26	39,39,39,39	0
56	MG	1A	3444	1/1	0.97	0.31	58,58,58,58	0
56	MG	1A	3799	1/1	0.97	0.15	19,19,19,19	0
56	MG	1A	3868	1/1	0.97	0.18	52,52,52,52	0
56	MG	2A	3744	1/1	0.97	0.09	61,61,61,61	0
56	MG	2A	3907	1/1	0.97	0.52	39,39,39,39	0
56	MG	2A	3586	1/1	0.97	0.10	36,36,36,36	0
56	MG	1A	3050	1/1	0.97	0.23	38,38,38,38	0
56	MG	1A	4218	1/1	0.97	0.11	32,32,32,32	0
56	MG	1A	4219	1/1	0.97	0.23	35,35,35,35	0
56	MG	1A	3071	1/1	0.97	0.19	16,16,16,16	0
56	MG	1A	3741	1/1	0.97	0.18	33,33,33,33	0
56	MG	1A	3803	1/1	0.97	0.11	47,47,47,47	0
56	MG	1a	1650	1/1	0.97	0.17	40,40,40,40	0
56	MG	1A	3447	1/1	0.97	0.16	41,41,41,41	0
56	MG	1a	1652	1/1	0.97	0.15	49,49,49,49	0
56	MG	2a	1678	1/1	0.97	0.22	58,58,58,58	0
56	MG	2A	3924	1/1	0.97	0.52	49,49,49,49	0
56	MG	2A	3926	1/1	0.97	0.40	47,47,47,47	0
56	MG	1a	1880	1/1	0.97	0.27	39,39,39,39	0
56	MG	2e	3001	1/1	0.97	0.12	73,73,73,73	0
56	MG	1a	1653	1/1	0.97	0.20	63,63,63,63	0
56	MG	2a	1683	1/1	0.97	0.13	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1762	1/1	0.97	0.29	66,66,66,66	0
56	MG	1A	3948	1/1	0.97	0.14	19,19,19,19	0
56	MG	1A	3382	1/1	0.97	0.11	51,51,51,51	0
56	MG	2A	3604	1/1	0.97	0.08	46,46,46,46	0
56	MG	2A	3763	1/1	0.97	0.08	64,64,64,64	0
56	MG	2A	3935	1/1	0.97	0.09	53,53,53,53	0
56	MG	2A	3462	1/1	0.97	0.21	56,56,56,56	0
56	MG	2A	3937	1/1	0.97	0.59	41,41,41,41	0
56	MG	1A	3413	1/1	0.97	0.28	56,56,56,56	0
56	MG	2A	3940	1/1	0.97	0.19	50,50,50,50	0
56	MG	2A	3078	1/1	0.97	0.16	35,35,35,35	0
56	MG	1A	4227	1/1	0.97	0.23	41,41,41,41	0
56	MG	1A	3169	1/1	0.97	0.32	43,43,43,43	0
56	MG	1A	3692	1/1	0.97	0.08	50,50,50,50	0
56	MG	2A	3770	1/1	0.97	0.22	48,48,48,48	0
56	MG	1A	4113	1/1	0.97	0.17	36,36,36,36	0
56	MG	1A	3126	1/1	0.97	0.66	48,48,48,48	0
56	MG	1A	3027	1/1	0.97	0.32	33,33,33,33	0
56	MG	1A	3955	1/1	0.97	0.20	44,44,44,44	0
56	MG	2A	3617	1/1	0.97	0.21	50,50,50,50	0
56	MG	1A	3172	1/1	0.97	0.91	54,54,54,54	0
56	MG	2w	105	1/1	0.97	0.08	74,74,74,74	0
56	MG	1A	3113	1/1	0.97	0.14	42,42,42,42	0
56	MG	1A	3036	1/1	0.97	0.20	24,24,24,24	0
56	MG	1A	3699	1/1	0.97	0.26	28,28,28,28	0
56	MG	1A	3885	1/1	0.97	0.25	57,57,57,57	0
56	MG	2a	1710	1/1	0.97	0.27	47,47,47,47	0
56	MG	1A	3701	1/1	0.97	0.13	31,31,31,31	0
56	MG	1A	3566	1/1	0.97	0.22	34,34,34,34	0
56	MG	1A	3819	1/1	0.97	0.18	46,46,46,46	0
56	MG	1a	1782	1/1	0.97	0.12	67,67,67,67	0
56	MG	1w	107	1/1	0.97	0.07	58,58,58,58	0
56	MG	1A	3175	1/1	0.97	0.29	42,42,42,42	0
56	MG	2B	3019	1/1	0.97	0.22	79,79,79,79	0
56	MG	1a	1785	1/1	0.97	0.23	41,41,41,41	0
56	MG	1A	4043	1/1	0.97	0.16	66,66,66,66	0
56	MG	1a	1787	1/1	0.97	0.11	55,55,55,55	0
56	MG	2D	303	1/1	0.97	0.13	32,32,32,32	0
56	MG	1A	3061	1/1	0.97	0.19	53,53,53,53	0
56	MG	1A	3022	1/1	0.97	0.13	27,27,27,27	0
56	MG	1B	3020	1/1	0.97	0.13	57,57,57,57	0
56	MG	1a	1677	1/1	0.97	0.07	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	CPT	2A	3914	4/5	0.97	0.19	44,54,55,67	4
56	MG	1A	3893	1/1	0.97	0.12	64,64,64,64	0
56	MG	1A	3281	1/1	0.97	0.26	39,39,39,39	0
58	CPT	2A	3919	4/5	0.97	0.17	68,86,92,111	4
58	CPT	2I	201	4/5	0.97	0.21	38,50,68,87	4
56	MG	1A	3179	1/1	0.97	0.18	32,32,32,32	0
59	ZN	1n	103	1/1	0.97	0.16	63,63,63,63	0
56	MG	2A	3237	1/1	0.97	0.34	46,46,46,46	0
56	MG	1A	4134	1/1	0.97	0.12	20,20,20,20	0
59	ZN	26	102	1/1	0.97	0.18	63,63,63,63	0
56	MG	2E	309	1/1	0.97	0.15	56,56,56,56	0
56	MG	2A	3109	1/1	0.97	0.25	59,59,59,59	0
56	MG	2A	3620	1/1	0.98	0.13	54,54,54,54	0
56	MG	1A	3748	1/1	0.98	0.20	59,59,59,59	0
56	MG	2B	3018	1/1	0.98	0.14	61,61,61,61	0
56	MG	1A	4169	1/1	0.98	0.19	49,49,49,49	0
56	MG	1B	3016	1/1	0.98	0.20	47,47,47,47	0
56	MG	2A	3727	1/1	0.98	0.13	53,53,53,53	0
56	MG	2A	3728	1/1	0.98	0.11	27,27,27,27	0
56	MG	1A	3305	1/1	0.98	0.26	35,35,35,35	0
56	MG	1A	3202	1/1	0.98	0.29	28,28,28,28	0
56	MG	1A	3307	1/1	0.98	0.25	47,47,47,47	0
56	MG	2A	3844	1/1	0.98	0.08	53,53,53,53	0
56	MG	1A	3570	1/1	0.98	0.46	41,41,41,41	0
56	MG	1A	3041	1/1	0.98	0.19	40,40,40,40	0
56	MG	2A	3847	1/1	0.98	0.06	35,35,35,35	0
56	MG	1A	3136	1/1	0.98	0.08	48,48,48,48	0
56	MG	1A	3544	1/1	0.98	0.29	50,50,50,50	0
56	MG	2a	1804	1/1	0.98	0.07	77,77,77,77	0
56	MG	1A	3691	1/1	0.98	0.16	32,32,32,32	0
56	MG	2E	308	1/1	0.98	0.09	45,45,45,45	0
56	MG	1A	3794	1/1	0.98	0.14	44,44,44,44	0
56	MG	2A	3531	1/1	0.98	0.21	56,56,56,56	0
56	MG	1A	4064	1/1	0.98	0.14	9,9,9,9	0
56	MG	2A	3740	1/1	0.98	0.13	50,50,50,50	0
56	MG	2A	3438	1/1	0.98	0.29	42,42,42,42	0
56	MG	1A	3262	1/1	0.98	0.14	56,56,56,56	0
56	MG	2A	3440	1/1	0.98	0.23	47,47,47,47	0
56	MG	1A	4187	1/1	0.98	0.26	33,33,33,33	0
56	MG	2A	3745	1/1	0.98	0.08	39,39,39,39	0
56	MG	2a	1689	1/1	0.98	0.17	69,69,69,69	0
56	MG	1x	114	1/1	0.98	0.20	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4119	1/1	0.98	0.08	53,53,53,53	0
56	MG	1A	4189	1/1	0.98	0.30	46,46,46,46	0
56	MG	1A	4190	1/1	0.98	0.32	40,40,40,40	0
56	MG	1B	3032	1/1	0.98	0.13	48,48,48,48	0
56	MG	2A	3542	1/1	0.98	0.11	47,47,47,47	0
56	MG	1A	3758	1/1	0.98	0.19	31,31,31,31	0
56	MG	2A	3646	1/1	0.98	0.16	41,41,41,41	0
56	MG	2A	3173	1/1	0.98	0.09	53,53,53,53	0
56	MG	2R	201	1/1	0.98	0.10	47,47,47,47	0
56	MG	1A	4192	1/1	0.98	0.32	38,38,38,38	0
56	MG	1A	4067	1/1	0.98	0.14	29,29,29,29	0
56	MG	1U	206	1/1	0.98	0.25	29,29,29,29	0
56	MG	2a	1830	1/1	0.98	0.16	60,60,60,60	0
56	MG	1A	3242	1/1	0.98	0.34	34,34,34,34	0
56	MG	1A	3760	1/1	0.98	0.17	40,40,40,40	0
56	MG	1A	4070	1/1	0.98	0.07	74,74,74,74	0
56	MG	1A	3287	1/1	0.98	0.22	52,52,52,52	0
56	MG	2A	3762	1/1	0.98	0.35	30,30,30,30	0
56	MG	1A	3927	1/1	0.98	0.17	30,30,30,30	0
56	MG	2A	3880	1/1	0.98	0.14	34,34,34,34	0
56	MG	1a	1853	1/1	0.98	0.08	59,59,59,59	0
56	MG	1a	1701	1/1	0.98	0.34	62,62,62,62	0
56	MG	1A	3137	1/1	0.98	0.32	32,32,32,32	0
56	MG	1A	3696	1/1	0.98	0.17	10,10,10,10	0
56	MG	1a	1778	1/1	0.98	0.18	47,47,47,47	0
56	MG	1A	3026	1/1	0.98	0.14	51,51,51,51	0
56	MG	1X	102	1/1	0.98	0.27	52,52,52,52	0
56	MG	1A	3103	1/1	0.98	0.11	52,52,52,52	0
56	MG	1A	4203	1/1	0.98	0.40	31,31,31,31	0
56	MG	1A	4026	1/1	0.98	0.12	45,45,45,45	0
56	MG	1a	1784	1/1	0.98	0.11	33,33,33,33	0
56	MG	1A	3037	1/1	0.98	0.20	35,35,35,35	0
56	MG	2A	3195	1/1	0.98	0.12	52,52,52,52	0
56	MG	1A	4206	1/1	0.98	0.22	44,44,44,44	0
56	MG	1A	4133	1/1	0.98	0.16	31,31,31,31	0
56	MG	2A	3568	1/1	0.98	0.14	62,62,62,62	0
56	MG	1a	1867	1/1	0.98	0.09	59,59,59,59	0
56	MG	1A	3094	1/1	0.98	0.33	50,50,50,50	0
56	MG	1A	3076	1/1	0.98	0.26	33,33,33,33	0
56	MG	1A	3888	1/1	0.98	0.10	42,42,42,42	0
56	MG	2A	3784	1/1	0.98	0.09	55,55,55,55	0
56	MG	1Z	304	1/1	0.98	0.15	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3734	1/1	0.98	0.19	42,42,42,42	0
56	MG	1A	3808	1/1	0.98	0.18	33,33,33,33	0
56	MG	1A	4140	1/1	0.98	0.13	57,57,57,57	0
56	MG	1A	4215	1/1	0.98	0.33	33,33,33,33	0
56	MG	1A	4141	1/1	0.98	0.25	17,17,17,17	0
56	MG	2I	202	1/1	0.98	0.10	64,64,64,64	0
56	MG	1A	3068	1/1	0.98	0.16	17,17,17,17	0
56	MG	1A	3396	1/1	0.98	0.16	37,37,37,37	0
56	MG	2A	3210	1/1	0.98	0.10	51,51,51,51	0
56	MG	1A	3012	1/1	0.98	0.13	30,30,30,30	0
56	MG	2A	3686	1/1	0.98	0.17	32,32,32,32	0
56	MG	1A	3231	1/1	0.98	0.29	45,45,45,45	0
56	MG	2A	3037	1/1	0.98	0.14	36,36,36,36	0
56	MG	1A	3070	1/1	0.98	0.34	35,35,35,35	0
56	MG	2A	3690	1/1	0.98	0.14	34,34,34,34	0
56	MG	2A	3489	1/1	0.98	0.16	56,56,56,56	0
56	MG	1A	3896	1/1	0.98	0.12	45,45,45,45	0
56	MG	2A	3925	1/1	0.98	0.71	43,43,43,43	0
56	MG	1A	3814	1/1	0.98	0.16	52,52,52,52	0
56	MG	1A	3675	1/1	0.98	0.12	59,59,59,59	0
56	MG	1A	3003	1/1	0.98	0.20	29,29,29,29	0
56	MG	1A	3275	1/1	0.98	0.36	35,35,35,35	0
56	MG	1a	1731	1/1	0.98	0.14	68,68,68,68	0
56	MG	1I	201	1/1	0.98	0.19	39,39,39,39	0
56	MG	2A	3932	1/1	0.98	0.35	39,39,39,39	0
56	MG	1A	4153	1/1	0.98	0.18	27,27,27,27	0
56	MG	1A	3162	1/1	0.98	0.26	35,35,35,35	0
56	MG	2A	3810	1/1	0.98	0.11	48,48,48,48	0
56	MG	1n	101	1/1	0.98	0.28	52,52,52,52	0
56	MG	1A	3857	1/1	0.98	0.16	30,30,30,30	0
56	MG	2A	3598	1/1	0.98	0.12	64,64,64,64	0
56	MG	1A	3997	1/1	0.98	0.15	41,41,41,41	0
56	MG	2a	1641	1/1	0.98	0.27	52,52,52,52	0
56	MG	2A	3135	1/1	0.98	0.14	46,46,46,46	0
56	MG	2a	1766	1/1	0.98	0.10	69,69,69,69	0
56	MG	2A	3602	1/1	0.98	0.15	37,37,37,37	0
56	MG	1A	3858	1/1	0.98	0.23	30,30,30,30	0
56	MG	1A	3859	1/1	0.98	0.13	45,45,45,45	0
56	MG	1A	3163	1/1	0.98	0.44	34,34,34,34	0
56	MG	2A	3821	1/1	0.98	0.12	39,39,39,39	0
56	MG	1A	3861	1/1	0.98	0.24	37,37,37,37	0
58	CPT	1A	4177	4/5	0.98	0.24	33,49,52,60	4

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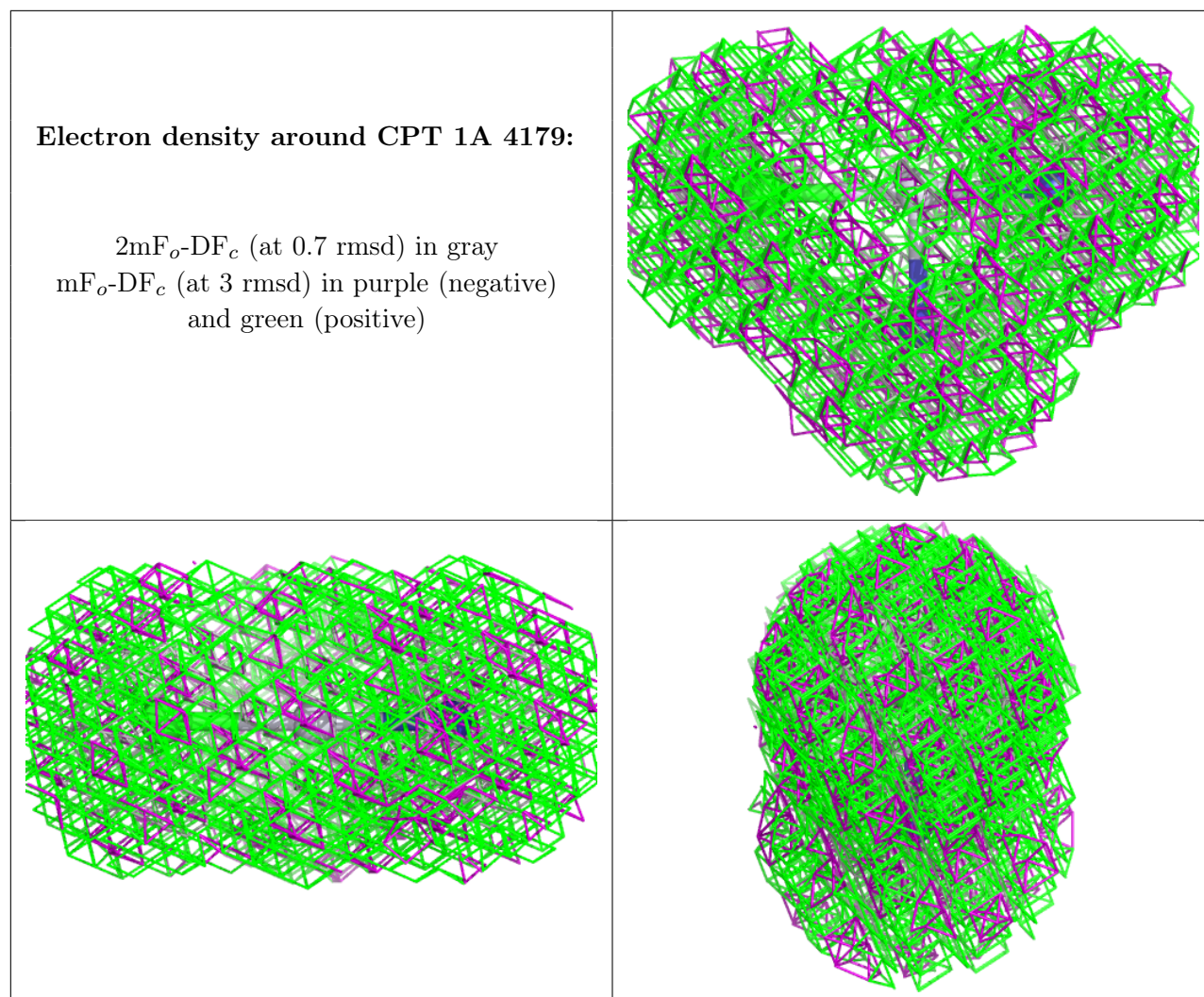
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3607	1/1	0.98	0.18	66,66,66,66	0
56	MG	2a	1774	1/1	0.98	0.18	52,52,52,52	0
58	CPT	1A	4180	4/5	0.98	0.20	60,66,67,81	4
56	MG	2a	1650	1/1	0.98	0.18	60,60,60,60	0
58	CPT	1A	4182	4/5	0.98	0.20	64,84,85,87	4
58	CPT	1I	3002	4/5	0.98	0.19	40,48,69,81	4
58	CPT	1a	1883	4/5	0.98	0.14	75,75,78,117	4
56	MG	2A	3140	1/1	0.98	0.18	41,41,41,41	0
56	MG	1a	1817	1/1	0.98	0.09	43,43,43,43	0
58	CPT	2A	3917	4/5	0.98	0.15	59,63,68,93	4
56	MG	2A	3142	1/1	0.98	0.21	41,41,41,41	0
56	MG	1A	4102	1/1	0.98	0.16	20,20,20,20	0
56	MG	1A	3147	1/1	0.98	0.28	34,34,34,34	0
59	ZN	1Y	202	1/1	0.98	0.16	64,64,64,64	0
56	MG	1a	1742	1/1	0.98	0.28	59,59,59,59	0
59	ZN	15	101	1/1	0.98	0.27	61,61,61,61	0
56	MG	1A	4164	1/1	0.98	0.21	33,33,33,33	0
56	MG	1A	3133	1/1	0.98	0.29	34,34,34,34	0
56	MG	1A	3035	1/1	0.98	0.23	33,33,33,33	0
59	ZN	25	103	1/1	0.98	0.19	53,53,53,53	0
56	MG	2A	3149	1/1	0.98	0.13	36,36,36,36	0
56	MG	2a	1786	1/1	0.98	0.13	66,66,66,66	0
56	MG	1A	3910	1/1	0.98	0.22	29,29,29,29	0
56	MG	1Y	205	1/1	0.99	0.40	49,49,49,49	0
56	MG	2A	3036	1/1	0.99	0.16	40,40,40,40	0
56	MG	1A	3672	1/1	0.99	0.13	11,11,11,11	0
56	MG	2A	3098	1/1	0.99	0.21	46,46,46,46	0
56	MG	1A	4077	1/1	0.99	0.07	38,38,38,38	0
56	MG	2A	3009	1/1	0.99	0.16	34,34,34,34	0
56	MG	2a	1720	1/1	0.99	0.17	72,72,72,72	0
56	MG	1A	3972	1/1	0.99	0.33	49,49,49,49	0
56	MG	1A	3573	1/1	0.99	0.31	40,40,40,40	0
56	MG	2A	3298	1/1	0.99	0.21	68,68,68,68	0
56	MG	2A	3012	1/1	0.99	0.10	32,32,32,32	0
56	MG	2A	3013	1/1	0.99	0.07	37,37,37,37	0
56	MG	2a	1852	1/1	0.99	0.11	64,64,64,64	0
56	MG	1A	4163	1/1	0.99	0.41	35,35,35,35	0
56	MG	1A	3700	1/1	0.99	0.17	38,38,38,38	0
56	MG	1A	3782	1/1	0.99	0.14	40,40,40,40	0
56	MG	1A	4147	1/1	0.99	0.17	10,10,10,10	0
56	MG	2A	3815	1/1	0.99	0.09	64,64,64,64	0
56	MG	1A	3682	1/1	0.99	0.23	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1794	1/1	0.99	0.10	35,35,35,35	0
56	MG	1a	1870	1/1	0.99	0.15	30,30,30,30	0
56	MG	1A	3435	1/1	0.99	0.24	66,66,66,66	0
56	MG	1Q	201	1/1	0.99	0.20	36,36,36,36	0
56	MG	1A	3354	1/1	0.99	0.36	39,39,39,39	0
56	MG	2A	3861	1/1	0.99	0.12	34,34,34,34	0
56	MG	2A	3178	1/1	0.99	0.21	34,34,34,34	0
56	MG	1A	4214	1/1	0.99	0.16	44,44,44,44	0
56	MG	1W	203	1/1	0.99	0.40	34,34,34,34	0
56	MG	2A	3314	1/1	0.99	0.14	59,59,59,59	0
58	CPT	2A	3916	4/5	0.99	0.28	62,65,84,86	4
56	MG	1A	3569	1/1	0.99	0.17	27,27,27,27	0
56	MG	1A	3871	1/1	0.99	0.23	32,32,32,32	0
56	MG	1A	3775	1/1	0.99	0.17	24,24,24,24	0
56	MG	2A	3600	1/1	0.99	0.13	42,42,42,42	0
56	MG	1A	4136	1/1	0.99	0.12	57,57,57,57	0
56	MG	1A	3529	1/1	0.99	0.34	34,34,34,34	0
56	MG	2A	3872	1/1	0.99	0.16	34,34,34,34	0
56	MG	2A	3530	1/1	0.99	0.07	34,34,34,34	0
56	MG	1A	3926	1/1	0.99	0.21	44,44,44,44	0
56	MG	2A	3154	1/1	0.99	0.13	55,55,55,55	0
56	MG	1E	306	1/1	0.99	0.16	38,38,38,38	0
56	MG	1A	3284	1/1	0.99	0.49	46,46,46,46	0
56	MG	2A	3608	1/1	0.99	0.14	35,35,35,35	0
56	MG	1A	3177	1/1	0.99	0.38	42,42,42,42	0
60	SF4	1d	501	8/8	0.99	0.17	57,62,70,72	0
60	SF4	2d	302	8/8	0.99	0.14	61,66,79,85	0
58	CPT	1a	1882	4/5	1.00	0.21	60,68,79,89	0
59	ZN	16	102	1/1	1.00	0.21	40,40,40,40	0
59	ZN	19	102	1/1	1.00	0.17	36,36,36,36	0

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.



6.5 Other polymers [i](#)

There are no such residues in this entry.