Full wwPDB X-ray Structure Validation Report (i)

Feb 15, 2024 – 03:56 PM EST

PDB ID	:	8UD8
Title	:	Crystal structure of the A2503-C2,C8-dimethylated Thermus thermophilus 70S ribosome in complex with cresomycin, mRNA, deacylated A-site tRNAphe, aminoacylated P-site fMet-tRNAmet, and deacylated E-site tRNAphe at 2.70A resolution
Authors	:	Aleksandrova, E.V.; Syroegin, E.A.; Wu, K.J.Y.; Tresco, B.I.C.; Ramkissoon, A.; See, D.N.Y.; Liow, P.; Dittemore, G.A.; Yu, M.; Testolin, G.; Mitcheltree, M.J.; Liu, R.Y.; Svetlov, M.S.; Myers, A.G.; Polikanov, Y.S.
Deposited on	:	2023-09-28
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 (i) symbol.

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

The following versions of software and data (see references (1)) were used in the production of this report:

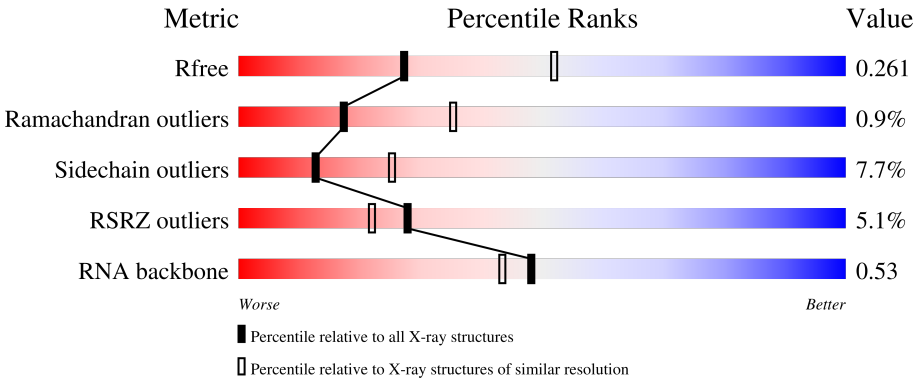
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 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 <=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	2% 82% 16% ·
1	2A	2915	3% 79% 17% ·
2	1B	121	93% 7% ·

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Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

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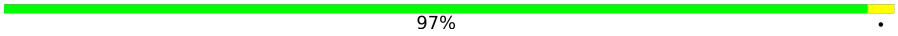
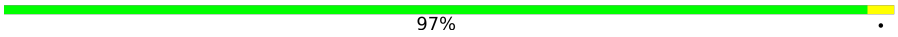
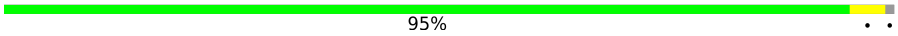
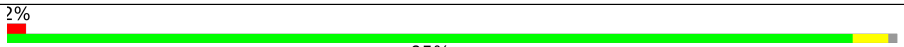
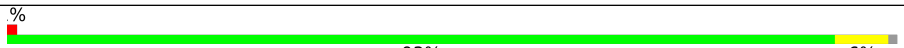
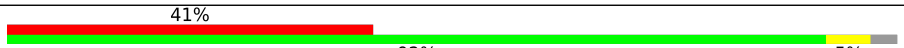
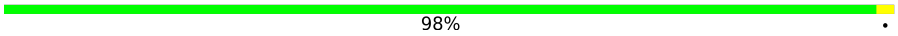
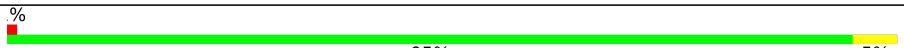
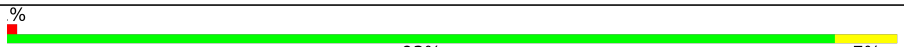
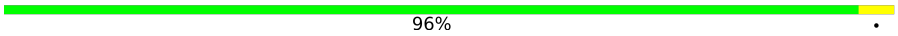
Mol	Chain	Length	Quality of chain
2	2B	121	
3	1D	276	
3	2D	276	
4	1E	206	
4	2E	206	
5	1F	210	
5	2F	210	
6	1G	182	
6	2G	182	
7	1H	180	
7	2H	180	
8	1I	148	
8	2I	148	
9	1N	140	
9	2N	140	
10	1O	122	
10	2O	122	
11	1P	150	
11	2P	150	
12	1Q	141	
12	2Q	141	
13	1R	118	
13	2R	118	
14	1S	112	
14	2S	112	

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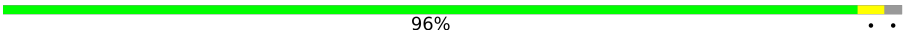
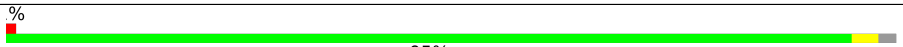
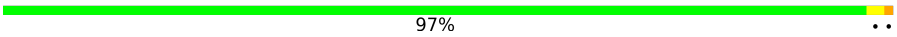
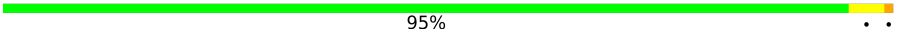
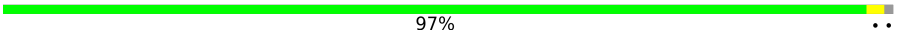
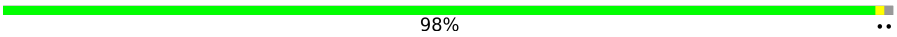
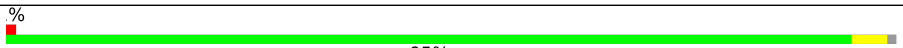
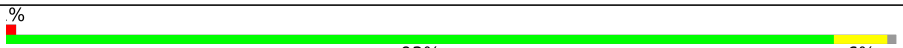
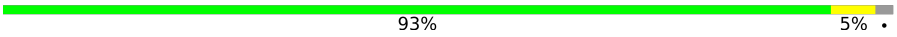
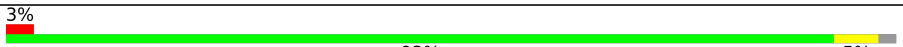
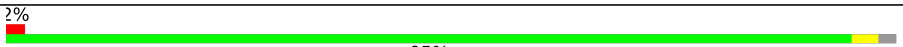
Mol	Chain	Length	Quality of chain
15	1T	146	
15	2T	146	
16	1U	118	
16	2U	118	
17	1V	101	
17	2V	101	
18	1W	113	
18	2W	113	
19	1X	96	
19	2X	96	
20	1Y	110	
20	2Y	110	
21	1Z	206	
21	2Z	206	
22	10	85	
22	20	85	
23	11	98	
23	21	98	
24	12	72	
24	22	72	
25	13	60	
25	23	60	
26	14	71	
26	24	71	
27	15	60	

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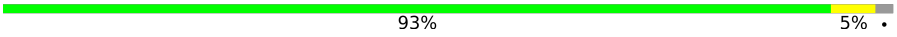
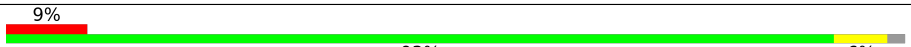
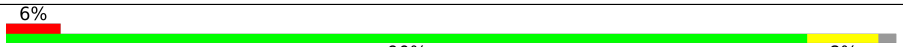
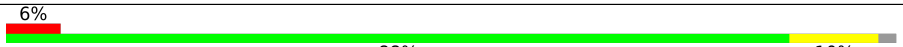
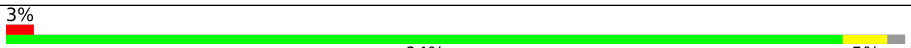
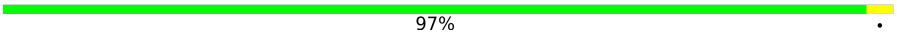
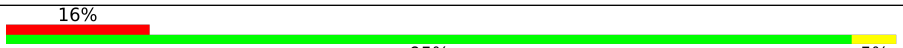
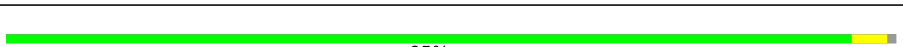
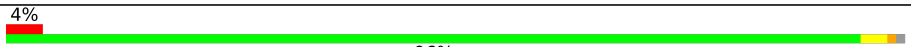
Mol	Chain	Length	Quality of chain
27	25	60	
28	16	54	
28	26	54	
29	17	49	
29	27	49	
30	18	65	
30	28	65	
31	19	37	
31	29	37	
32	1a	1521	
32	2a	1521	
33	1b	256	
33	2b	256	
34	1c	239	
34	2c	239	
35	1d	209	
35	2d	209	
36	1e	162	
36	2e	162	
37	1f	101	
37	2f	101	
38	1g	156	
38	2g	156	
39	1h	138	
39	2h	138	

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Mol	Chain	Length	Quality of chain
40	1i	128	28% 92% 6%
40	2i	128	52% 86% 13%
41	1j	105	19% 80% 12% 8%
41	2j	105	39% 81% 10% 9%
42	1k	129	78% 10% 12%
42	2k	129	82% 6% 12%
43	1l	132	86% 7% 8%
43	2l	132	87% 5% 8%
44	1m	126	3% 90% 7%
44	2m	126	17% 88% 9%
45	1n	61	7% 90% 8%
45	2n	61	54% 92% 7%
46	1o	89	97%
46	2o	89	96%
47	1p	88	13% 84% 9% 7%
47	2p	88	6% 85% 8% 7%
48	1q	105	8% 91% 6%
48	2q	105	7% 92% 6%
49	1r	88	73% 5% 23%
49	2r	88	70% 7% 23%
50	1s	93	3% 82% 8% 11%
50	2s	93	19% 85% 11%
51	1t	106	25% 84% 6% 9%
51	2t	106	25% 83% 8% 9%
52	1u	27	33% 85% 15%

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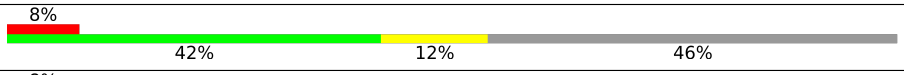
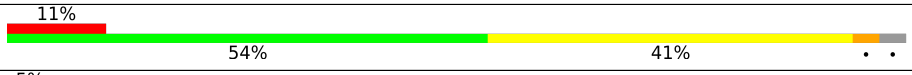
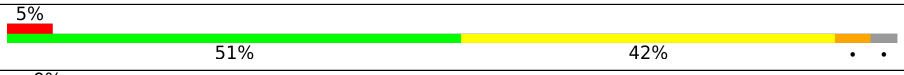
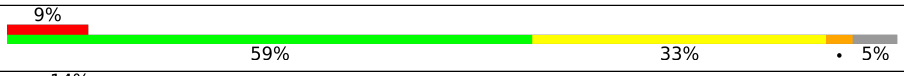
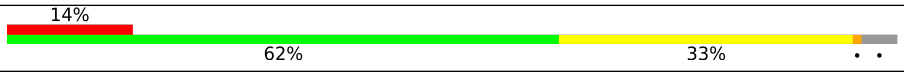
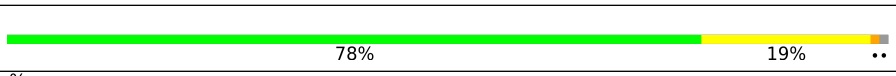
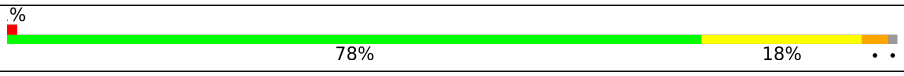
Mol	Chain	Length	Quality of chain
52	2u	27	
53	1v	24	
53	2v	24	
54	1w	76	
54	1y	76	
54	2w	76	
54	2y	76	
55	1x	77	
55	2x	77	

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	1A	3147	-	-	-	X
56	MG	1A	3245	-	-	-	X
56	MG	1A	3379	-	-	-	X
56	MG	1A	3404	-	-	-	X
56	MG	1A	3414	-	-	-	X
56	MG	1A	4069	-	-	-	X
56	MG	1E	308	-	-	-	X
56	MG	1N	205	-	-	-	X
56	MG	20	101	-	-	-	X
56	MG	2A	3201	-	-	-	X
56	MG	2A	3227	-	-	-	X
56	MG	2A	3275	-	-	-	X
56	MG	2A	3281	-	-	-	X
56	MG	2A	3343	-	-	-	X
56	MG	2A	3363	-	-	-	X
56	MG	2A	3419	-	-	-	X
56	MG	2A	3458	-	-	-	X
56	MG	2a	1628	-	-	-	X

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 299649 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
1	1A	2871	Total	C	N	O	P	0	0	0
			61853	27532	11572	19878	2871			
1	2A	2800	Total	C	N	O	P	0	0	0
			60323	26849	11284	19390	2800			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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
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
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	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			
7	2H	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	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 933	C 588	N 171	O 170	S 4	0	0	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- 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 MF-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- and E-site Deacylated tRNAphe.

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 Aminoacyl-tRNA fMet-tRNAmet.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
55	1x	76	Total	C	N	O	P	S	0	0	0
			1635	731	296	530	76	2			
55	2x	76	Total	C	N	O	P	S	0	0	0
			1635	731	296	530	76	2			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1096	Total	Mg	0	0
			1096	1096		
56	1B	36	Total	Mg	0	0
			36	36		
56	1D	14	Total	Mg	0	0
			14	14		
56	1E	15	Total	Mg	0	0
			15	15		
56	1F	15	Total	Mg	0	0
			15	15		
56	1G	5	Total	Mg	0	0
			5	5		
56	1H	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	1I	1	Total Mg 1 1	0	0
56	1N	6	Total Mg 6 6	0	0
56	1O	5	Total Mg 5 5	0	0
56	1P	5	Total Mg 5 5	0	0
56	1Q	6	Total Mg 6 6	0	0
56	1R	6	Total Mg 6 6	0	0
56	1S	3	Total Mg 3 3	0	0
56	1T	2	Total Mg 2 2	0	0
56	1U	9	Total Mg 9 9	0	0
56	1V	6	Total Mg 6 6	0	0
56	1W	7	Total Mg 7 7	0	0
56	1X	7	Total Mg 7 7	0	0
56	1Y	5	Total Mg 5 5	0	0
56	1Z	4	Total Mg 4 4	0	0
56	10	8	Total Mg 8 8	0	0
56	11	6	Total Mg 6 6	0	0
56	12	2	Total Mg 2 2	0	0
56	13	3	Total Mg 3 3	0	0
56	14	1	Total Mg 1 1	0	0
56	15	10	Total Mg 10 10	0	0
56	16	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	17	6	Total Mg 6 6	0	0
56	18	6	Total Mg 6 6	0	0
56	19	1	Total Mg 1 1	0	0
56	1a	210	Total Mg 210 210	0	0
56	1b	1	Total Mg 1 1	0	0
56	1d	1	Total Mg 1 1	0	0
56	1e	2	Total Mg 2 2	0	0
56	1f	2	Total Mg 2 2	0	0
56	1k	1	Total Mg 1 1	0	0
56	1l	2	Total Mg 2 2	0	0
56	1m	1	Total Mg 1 1	0	0
56	1n	2	Total Mg 2 2	0	0
56	1p	1	Total Mg 1 1	0	0
56	1t	1	Total Mg 1 1	0	0
56	1w	8	Total Mg 8 8	0	0
56	1x	15	Total Mg 15 15	0	0
56	1y	1	Total Mg 1 1	0	0
56	2A	844	Total Mg 844 844	0	0
56	2B	19	Total Mg 19 19	0	0
56	2D	8	Total Mg 8 8	0	0
56	2E	9	Total Mg 9 9	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2F	8	Total Mg 8 8	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
56	2P	2	Total Mg 2 2	0	0
56	2Q	4	Total Mg 4 4	0	0
56	2R	4	Total Mg 4 4	0	0
56	2T	3	Total Mg 3 3	0	0
56	2U	2	Total Mg 2 2	0	0
56	2V	2	Total Mg 2 2	0	0
56	2W	3	Total Mg 3 3	0	0
56	2X	2	Total Mg 2 2	0	0
56	2Z	1	Total Mg 1 1	0	0
56	20	4	Total Mg 4 4	0	0
56	21	1	Total Mg 1 1	0	0
56	23	2	Total Mg 2 2	0	0
56	25	6	Total Mg 6 6	0	0
56	26	1	Total Mg 1 1	0	0
56	27	3	Total Mg 3 3	0	0
56	28	3	Total Mg 3 3	0	0
56	2a	225	Total Mg 225 225	0	0

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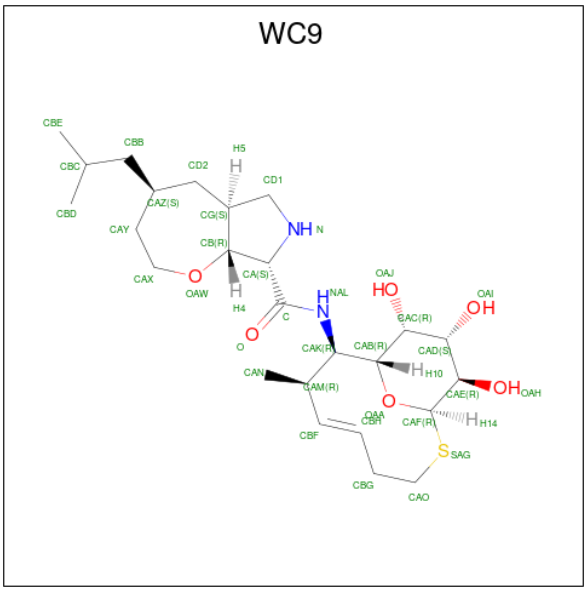
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2d	2	Total Mg 2 2	0	0
56	2e	1	Total Mg 1 1	0	0
56	2f	2	Total Mg 2 2	0	0
56	2g	1	Total Mg 1 1	0	0
56	2j	1	Total Mg 1 1	0	0
56	2l	5	Total Mg 5 5	0	0
56	2m	1	Total Mg 1 1	0	0
56	2q	3	Total Mg 3 3	0	0
56	2t	1	Total Mg 1 1	0	0
56	2v	3	Total Mg 3 3	0	0
56	2w	6	Total Mg 6 6	0	0
56	2x	7	Total Mg 7 7	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 (4S,5aS,8S,8aR)-4-(2-methylpropyl)-N-[(1R,5Z,7R,8R,9R,10R,11S,12R)-10,11,12-trihydroxy-7-methyl-13-oxa-2-thiabicyclo[7.3.1]tridec-5-en-8-yl]octahydro-2H-oxepino[2,3-c]pyrrole-8-carboxamide (non-preferred name) (three-letter code: WC9) (formula: $C_{25}H_{42}N_2O_6S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	1A	1	Total C N O S 34 25 2 6 1	0	0
58	2A	1	Total C N O S 34 25 2 6 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 1 1	0	0
59	14	1	Total Zn 1 1	0	0
59	15	1	Total Zn 1 1	0	0
59	16	1	Total Zn 1 1	0	0
59	19	1	Total Zn 1 1	0	0
59	1n	1	Total Zn 1 1	0	0
59	2Y	1	Total Zn 1 1	0	0
59	24	1	Total Zn 1 1	0	0
59	25	1	Total Zn 1 1	0	0
59	26	1	Total Zn 1 1	0	0

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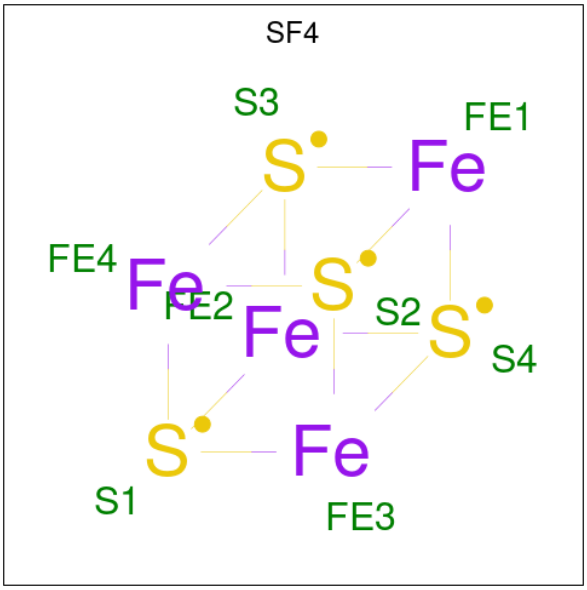
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	29	1	Total Zn 1 1	0	0
59	2n	1	Total Zn 1 1	0	0

- Molecule 60 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



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

- Molecule 61 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	1907	Total O 1907 1907	0	0
61	1B	59	Total O 59 59	0	0
61	1D	26	Total O 26 26	0	0
61	1E	28	Total O 28 28	0	0
61	1F	17	Total O 17 17	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1G	2	Total O 2 2	0	0
61	1H	2	Total O 2 2	0	0
61	1N	4	Total O 4 4	0	0
61	1O	4	Total O 4 4	0	0
61	1P	23	Total O 23 23	0	0
61	1Q	5	Total O 5 5	0	0
61	1R	10	Total O 10 10	0	0
61	1S	3	Total O 3 3	0	0
61	1T	8	Total O 8 8	0	0
61	1U	14	Total O 14 14	0	0
61	1V	7	Total O 7 7	0	0
61	1W	7	Total O 7 7	0	0
61	1X	6	Total O 6 6	0	0
61	1Y	2	Total O 2 2	0	0
61	1Z	1	Total O 1 1	0	0
61	10	11	Total O 11 11	0	0
61	11	9	Total O 9 9	0	0
61	12	3	Total O 3 3	0	0
61	13	5	Total O 5 5	0	0
61	14	1	Total O 1 1	0	0
61	15	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	16	3	Total O 3 3	0	0
61	17	8	Total O 8 8	0	0
61	18	7	Total O 7 7	0	0
61	1a	267	Total O 267 267	0	0
61	1b	1	Total O 1 1	0	0
61	1e	1	Total O 1 1	0	0
61	1j	1	Total O 1 1	0	0
61	1l	3	Total O 3 3	0	0
61	1n	1	Total O 1 1	0	0
61	1q	2	Total O 2 2	0	0
61	1v	4	Total O 4 4	0	0
61	1w	15	Total O 15 15	0	0
61	1x	10	Total O 10 10	0	0
61	1y	2	Total O 2 2	0	0
61	2A	1000	Total O 1000 1000	0	0
61	2B	18	Total O 18 18	0	0
61	2D	17	Total O 17 17	0	0
61	2E	10	Total O 10 10	0	0
61	2F	12	Total O 12 12	0	0
61	2O	2	Total O 2 2	0	0
61	2P	8	Total O 8 8	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2Q	2	Total O 2 2	0	0
61	2R	2	Total O 2 2	0	0
61	2T	4	Total O 4 4	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	1	Total O 1 1	0	0
61	2Y	2	Total O 2 2	0	0
61	20	3	Total O 3 3	0	0
61	21	8	Total O 8 8	0	0
61	23	1	Total O 1 1	0	0
61	27	4	Total O 4 4	0	0
61	28	3	Total O 3 3	0	0
61	29	1	Total O 1 1	0	0
61	2a	172	Total O 172 172	0	0
61	2d	2	Total O 2 2	0	0
61	2e	1	Total O 1 1	0	0
61	2i	1	Total O 1 1	0	0
61	2j	2	Total O 2 2	0	0
61	2l	4	Total O 4 4	0	0
61	2p	1	Total O 1 1	0	0

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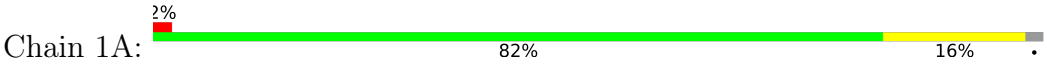
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2q	1	Total O 1 1	0	0
61	2r	1	Total O 1 1	0	0
61	2t	2	Total O 2 2	0	0
61	2v	3	Total O 3 3	0	0
61	2w	3	Total O 3 3	0	0
61	2x	4	Total O 4 4	0	0
61	2y	4	Total O 4 4	0	0

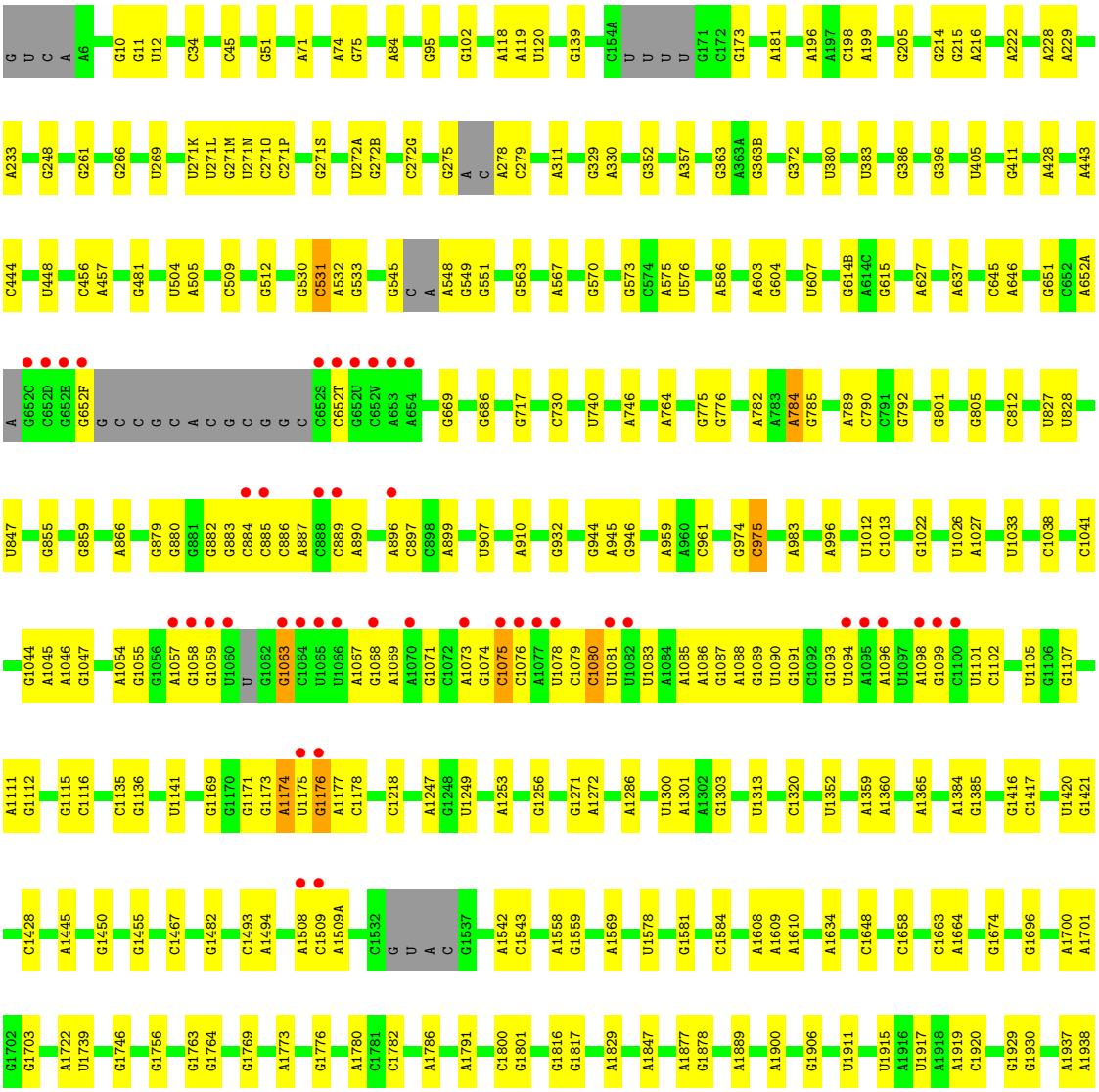
3 Residue-property plots (i)

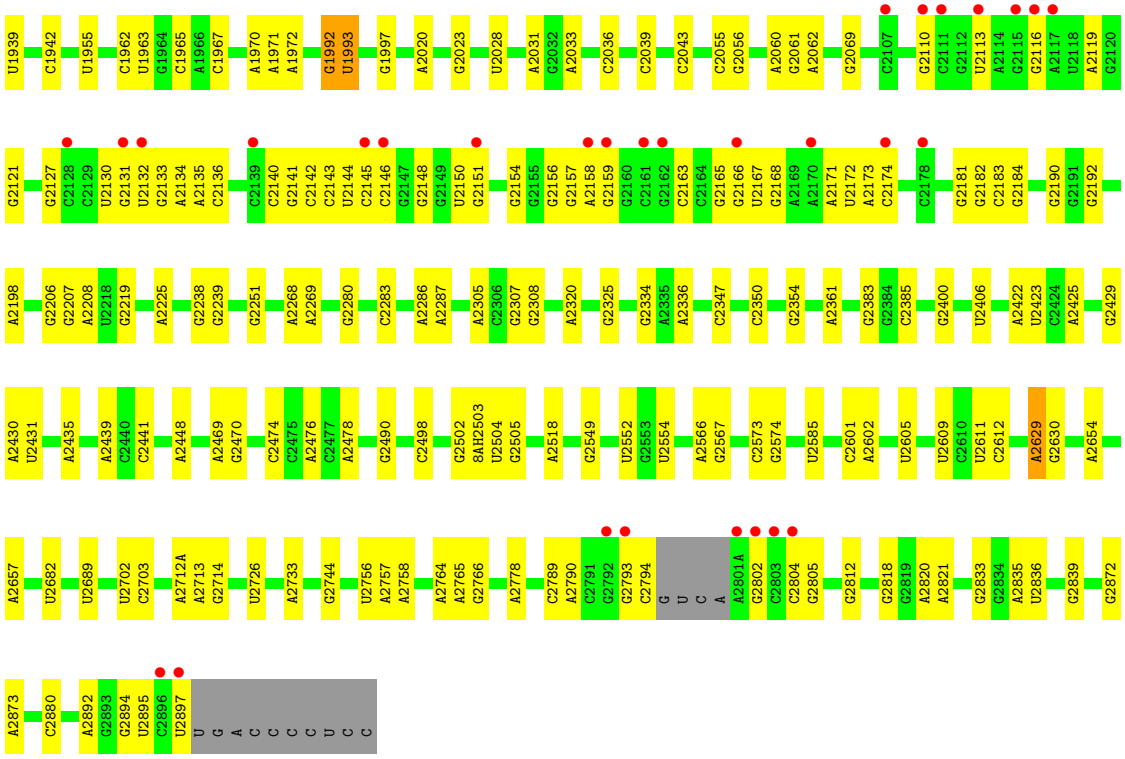
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

Chain 1A:

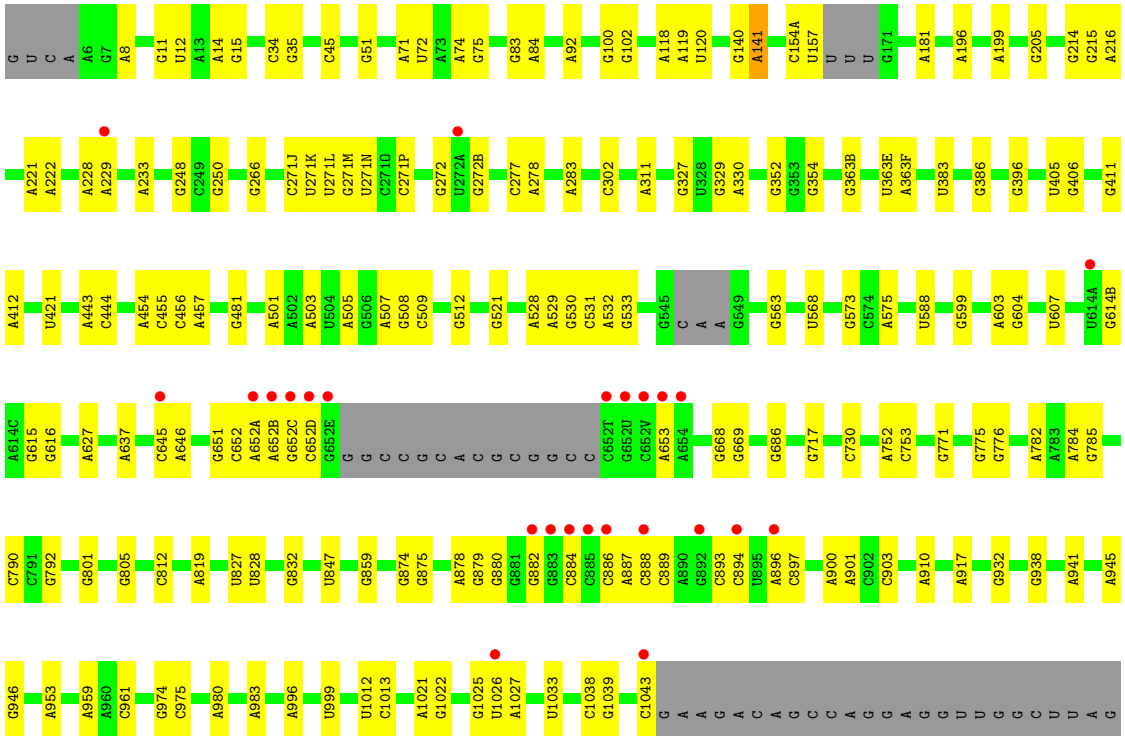


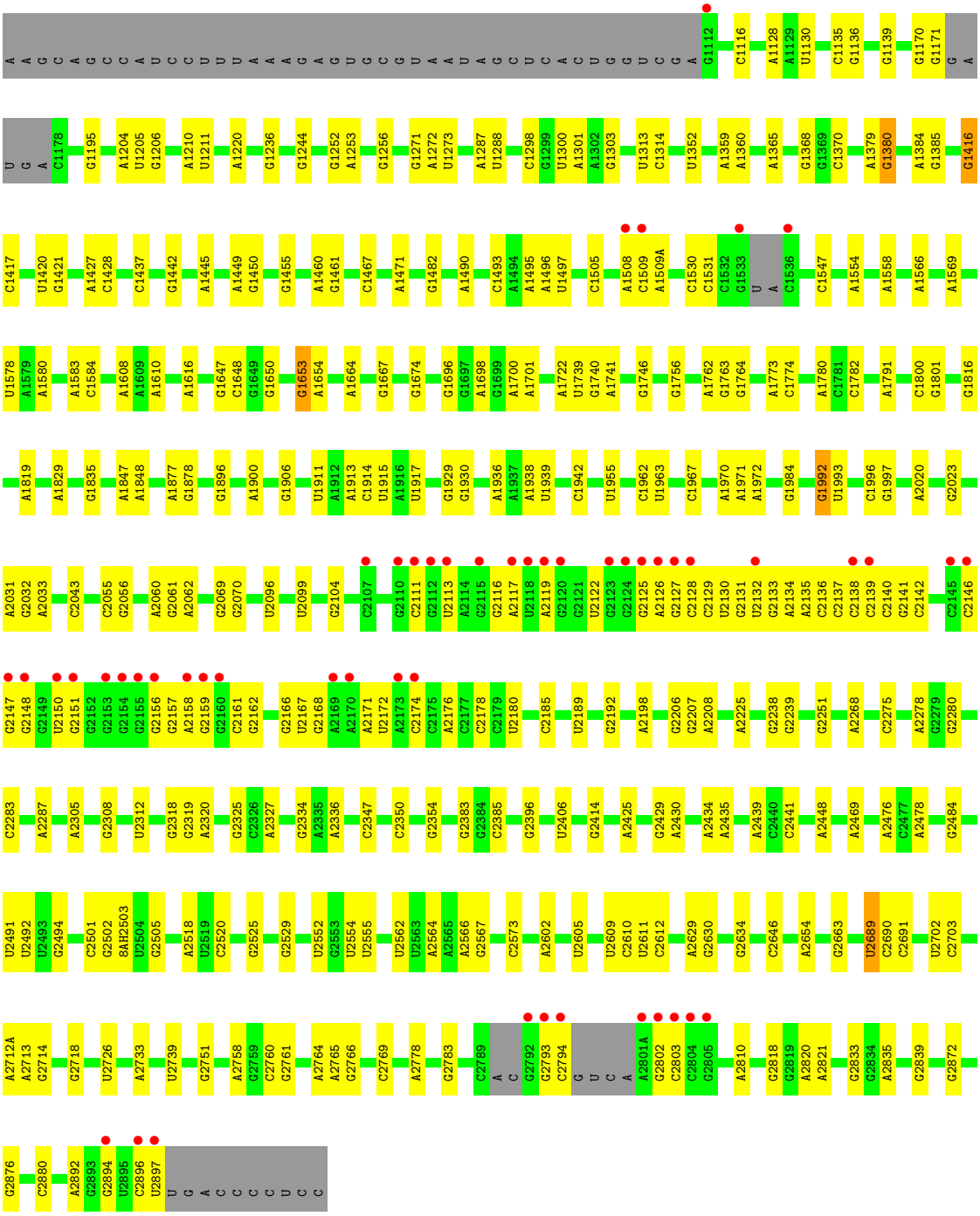




• Molecule 1: 23S Ribosomal RNA

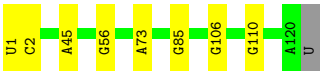
Chain 2A:





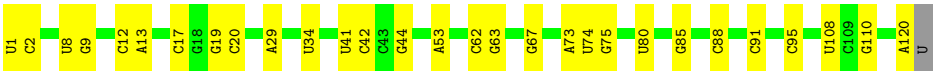
• Molecule 2: 5S Ribosomal RNA

Chain 1B:

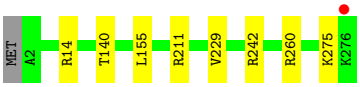


• Molecule 2: 5S Ribosomal RNA

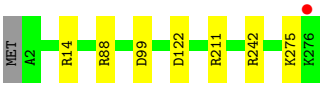
Chain 2B:



• Molecule 3: 50S ribosomal protein L2



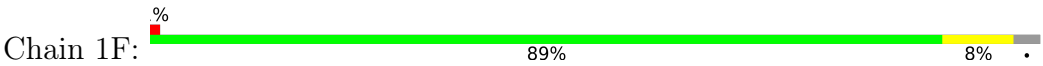
• Molecule 3: 50S ribosomal protein L2

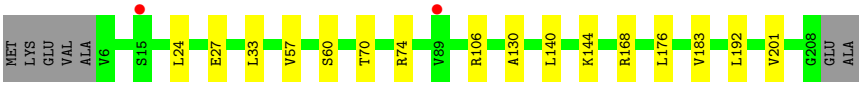


• Molecule 4: 50S ribosomal protein L3

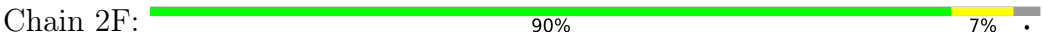
• Molecule 4: 50S ribosomal protein L3

• Molecule 5: 50S ribosomal protein L4



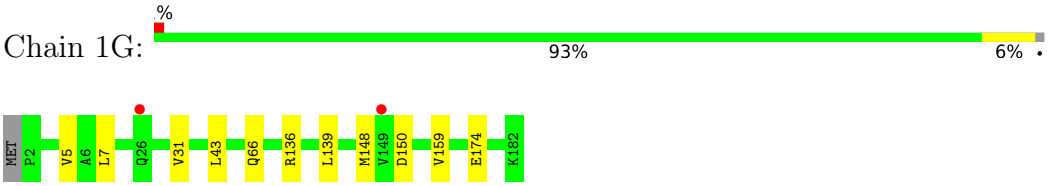


• Molecule 5: 50S ribosomal protein L4



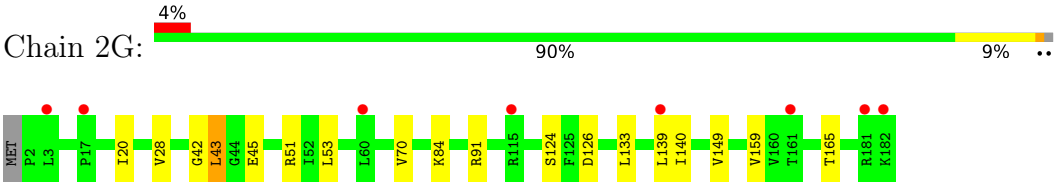
• Molecule 6: 50S ribosomal protein L5

Chain 1G:



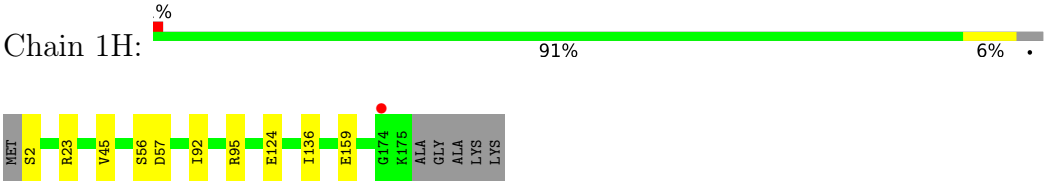
• Molecule 6: 50S ribosomal protein L5

Chain 2G:



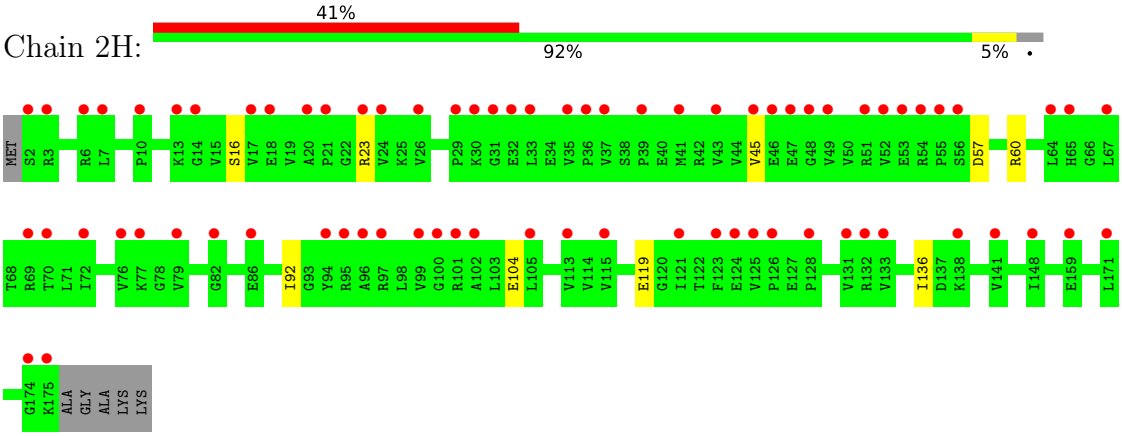
• Molecule 7: 50S ribosomal protein L6

Chain 1H:



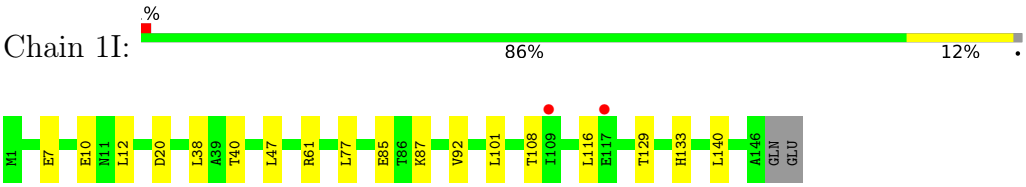
• Molecule 7: 50S ribosomal protein L6

Chain 2H:



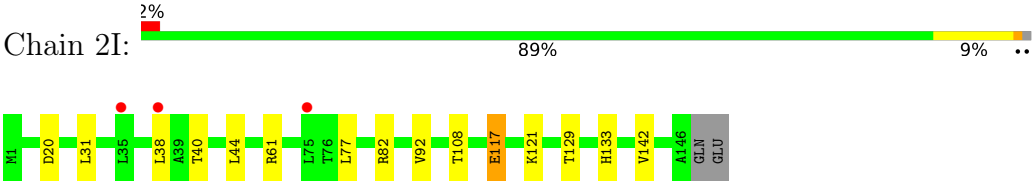
• Molecule 8: 50S ribosomal protein L9

Chain 1I:



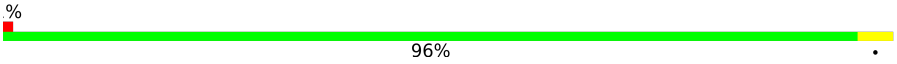
• Molecule 8: 50S ribosomal protein L9

Chain 2I:



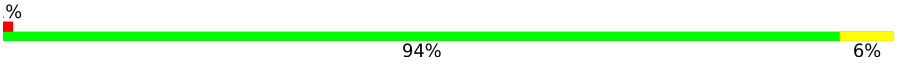
• Molecule 9: 50S ribosomal protein L13

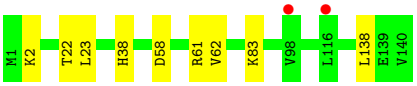
Chain 1N:



• Molecule 9: 50S ribosomal protein L13

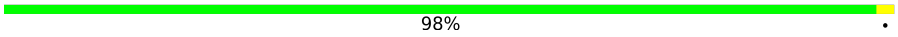
Chain 2N:





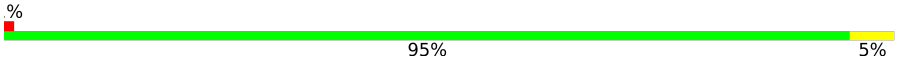
• Molecule 10: 50S ribosomal protein L14

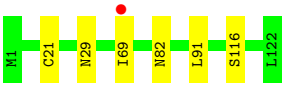
Chain 1O:



• Molecule 10: 50S ribosomal protein L14

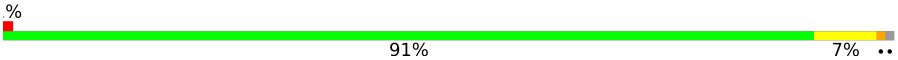
Chain 2O:

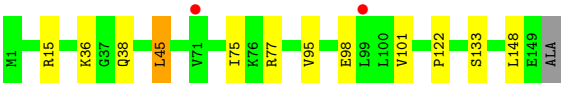




• Molecule 11: 50S ribosomal protein L15

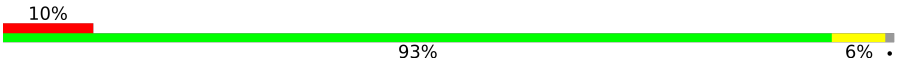
Chain 1P:

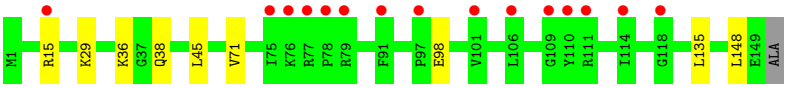




• Molecule 11: 50S ribosomal protein L15

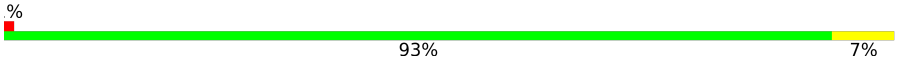
Chain 2P:





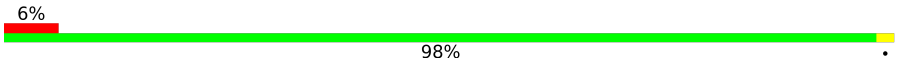
• Molecule 12: 50S ribosomal protein L16

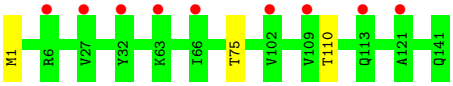
Chain 1Q:



• Molecule 12: 50S ribosomal protein L16

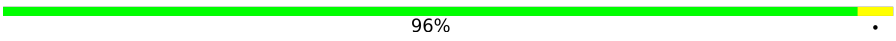
Chain 2Q:

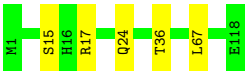




• Molecule 13: 50S ribosomal protein L17

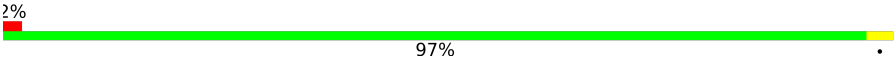
Chain 1R:

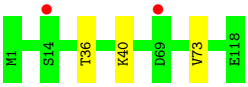




• Molecule 13: 50S ribosomal protein L17

Chain 2R:



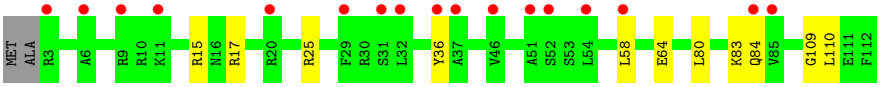


• Molecule 14: 50S ribosomal protein L18

Chain 1S:

• Molecule 14: 50S ribosomal protein L18

Chain 2S:

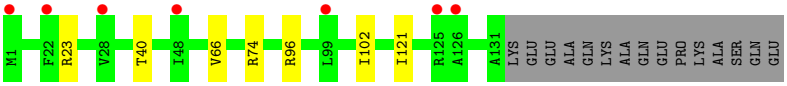


• Molecule 15: 50S ribosomal protein L19

Chain 1T:

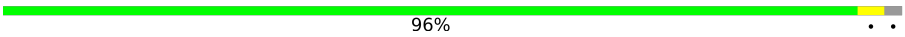
• Molecule 15: 50S ribosomal protein L19

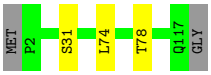
Chain 2T:



• Molecule 16: 50S ribosomal protein L20

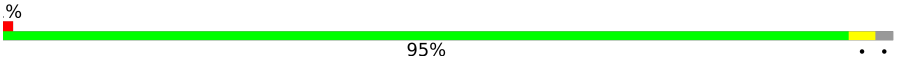
Chain 1U:

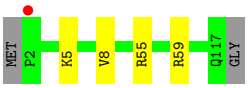




• Molecule 16: 50S ribosomal protein L20

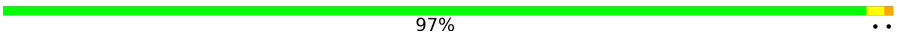
Chain 2U:





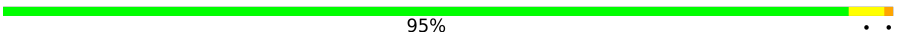
• Molecule 17: 50S ribosomal protein L21

Chain 1V:



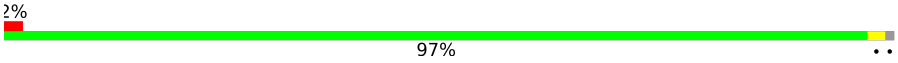
• Molecule 17: 50S ribosomal protein L21

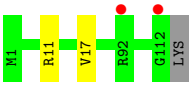
Chain 2V:



• Molecule 18: 50S ribosomal protein L22

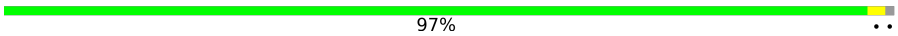
Chain 1W:





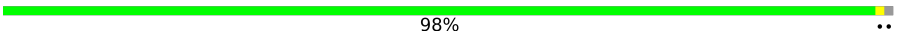
• Molecule 18: 50S ribosomal protein L22

Chain 2W:



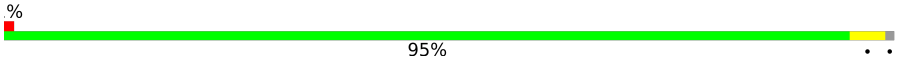
• Molecule 19: 50S ribosomal protein L23

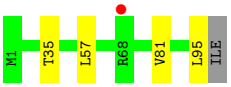
Chain 1X:



• Molecule 19: 50S ribosomal protein L23

Chain 2X:



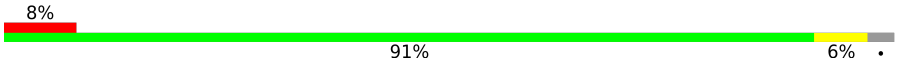


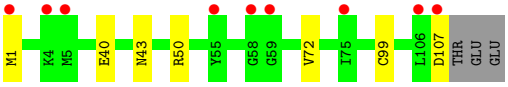
• Molecule 20: 50S ribosomal protein L24

Chain 1Y:

• Molecule 20: 50S ribosomal protein L24

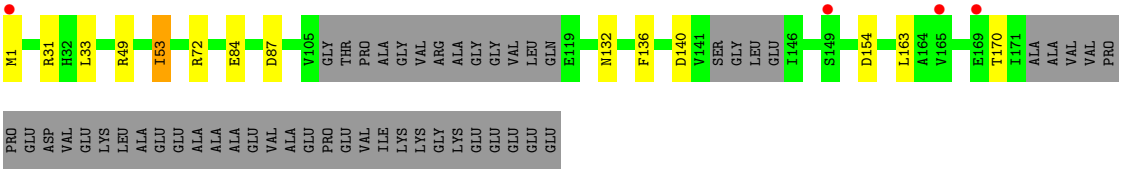
Chain 2Y:





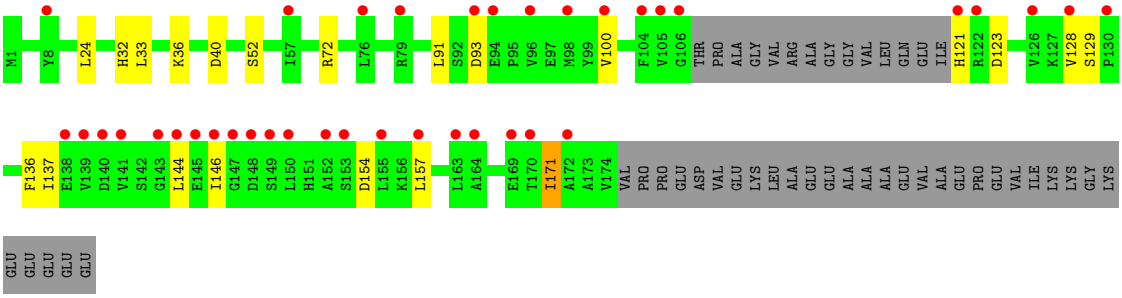
• Molecule 21: 50S ribosomal protein L25

Chain 1Z:



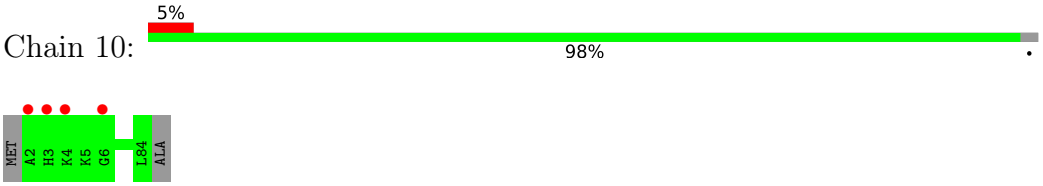
• Molecule 21: 50S ribosomal protein L25

Chain 2Z:



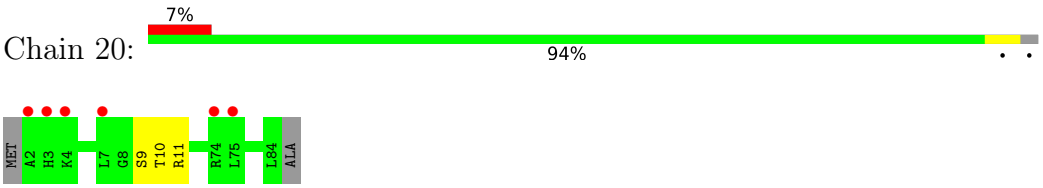
• Molecule 22: 50S ribosomal protein L27

Chain 10:



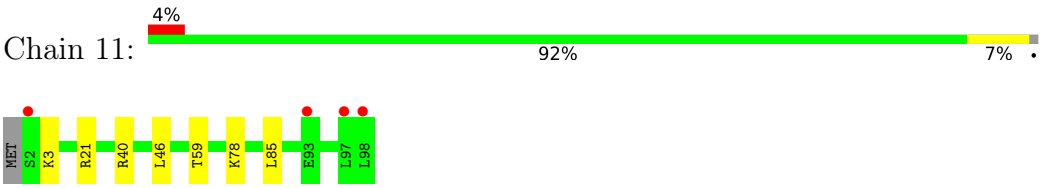
• Molecule 22: 50S ribosomal protein L27

Chain 20:



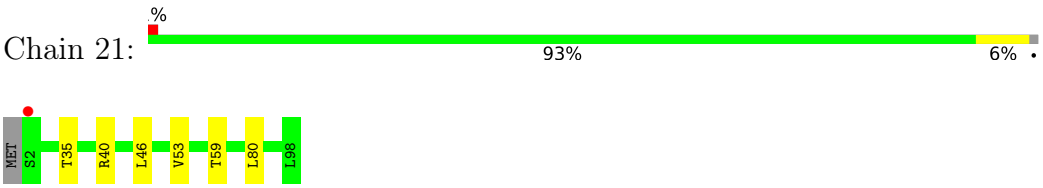
• Molecule 23: 50S ribosomal protein L28

Chain 11:



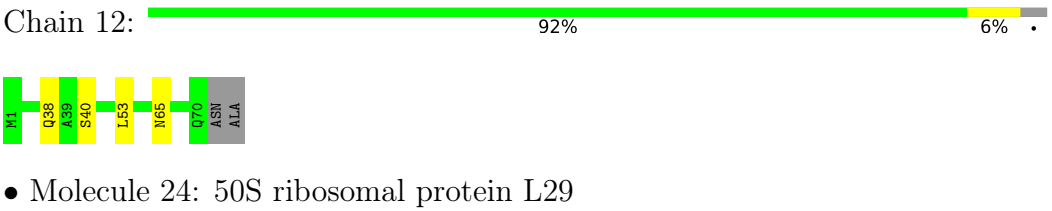
• Molecule 23: 50S ribosomal protein L28

Chain 21:



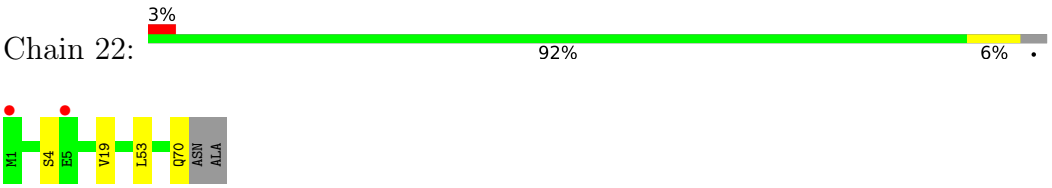
• Molecule 24: 50S ribosomal protein L29

Chain 12:



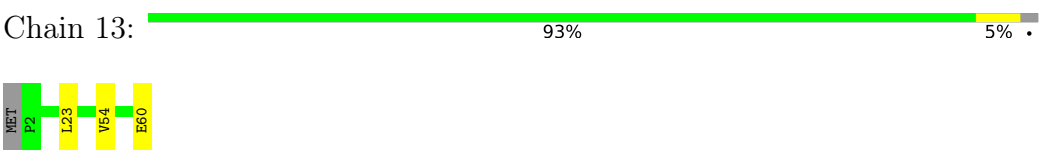
• Molecule 24: 50S ribosomal protein L29

Chain 22:



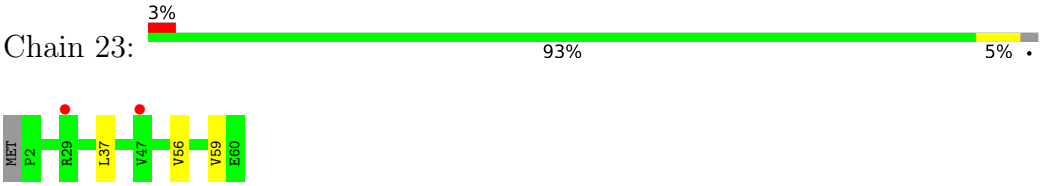
• Molecule 25: 50S ribosomal protein L30

Chain 13:



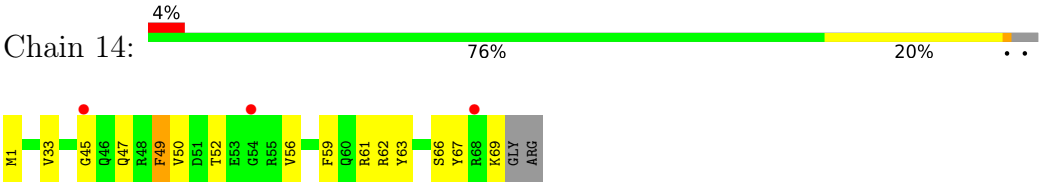
• Molecule 25: 50S ribosomal protein L30

Chain 23:



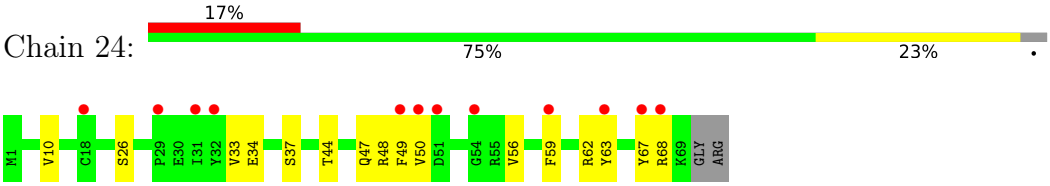
• Molecule 26: 50S ribosomal protein L31

Chain 14:



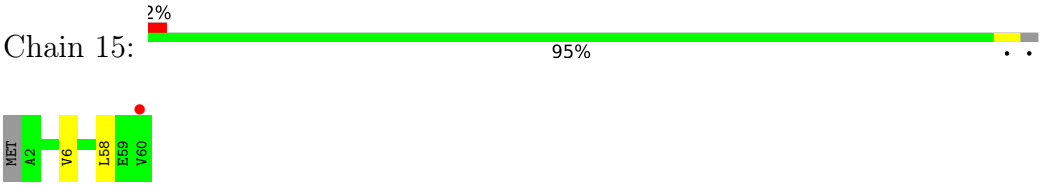
• Molecule 26: 50S ribosomal protein L31

Chain 24:



• Molecule 27: 50S ribosomal protein L32

Chain 15:



• Molecule 27: 50S ribosomal protein L32

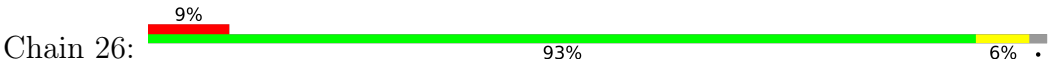
Chain 25:

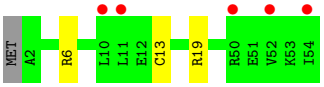
• Molecule 28: 50S ribosomal protein L33

Chain 16:

• Molecule 28: 50S ribosomal protein L33

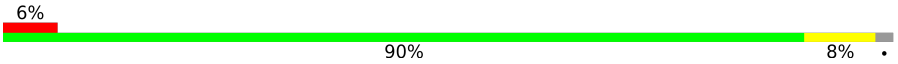
Chain 26:

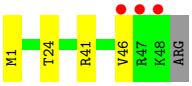




• Molecule 29: 50S ribosomal protein L34

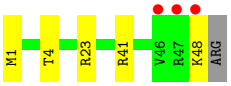
Chain 17:





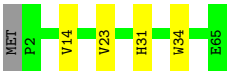
• Molecule 29: 50S ribosomal protein L34

Chain 27:



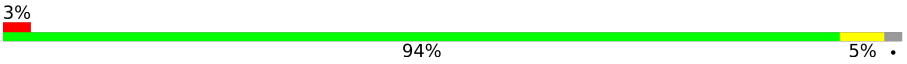
• Molecule 30: 50S ribosomal protein L35

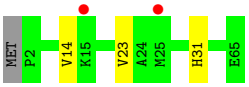
Chain 18:



• Molecule 30: 50S ribosomal protein L35

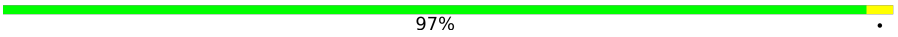
Chain 28:





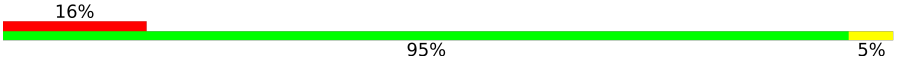
• Molecule 31: 50S ribosomal protein L36

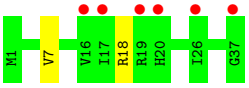
Chain 19:



• Molecule 31: 50S ribosomal protein L36

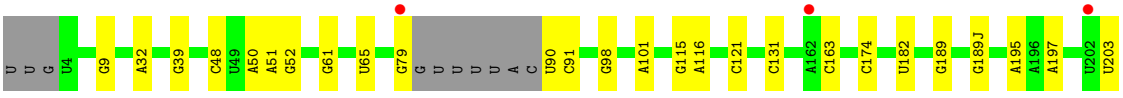
Chain 29:

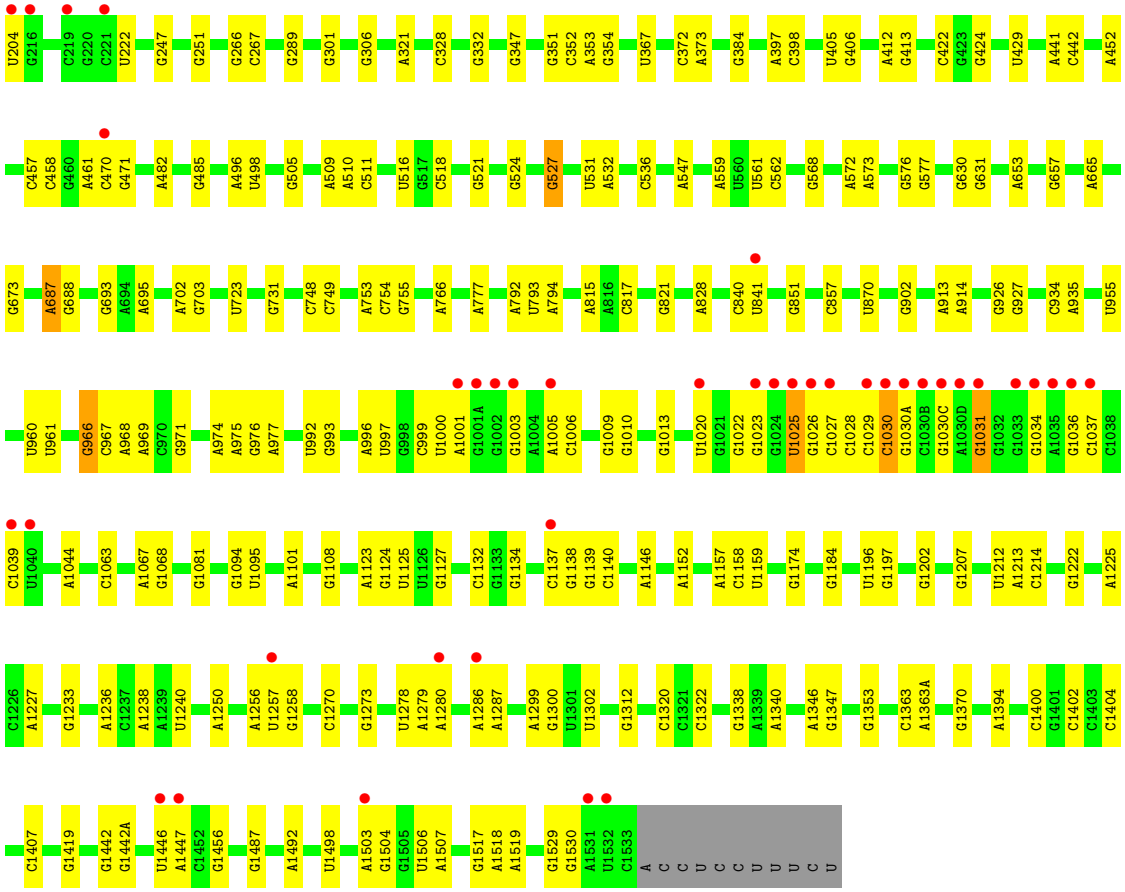




• Molecule 32: 16S Ribosomal RNA

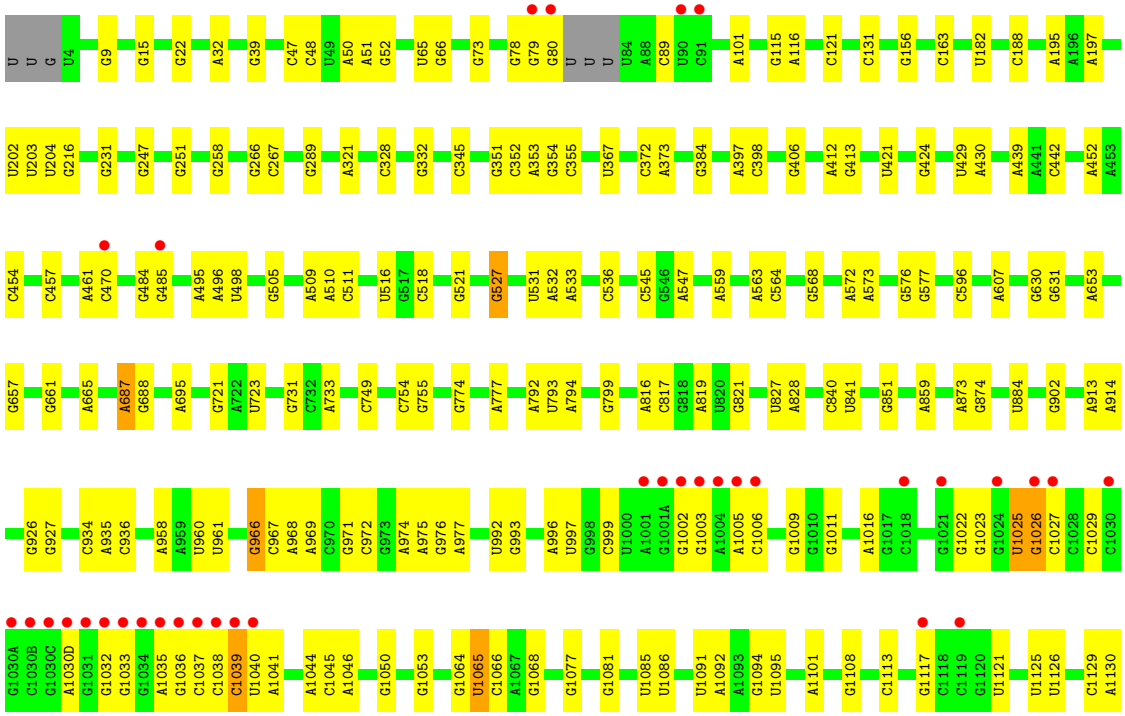
Chain 1a:

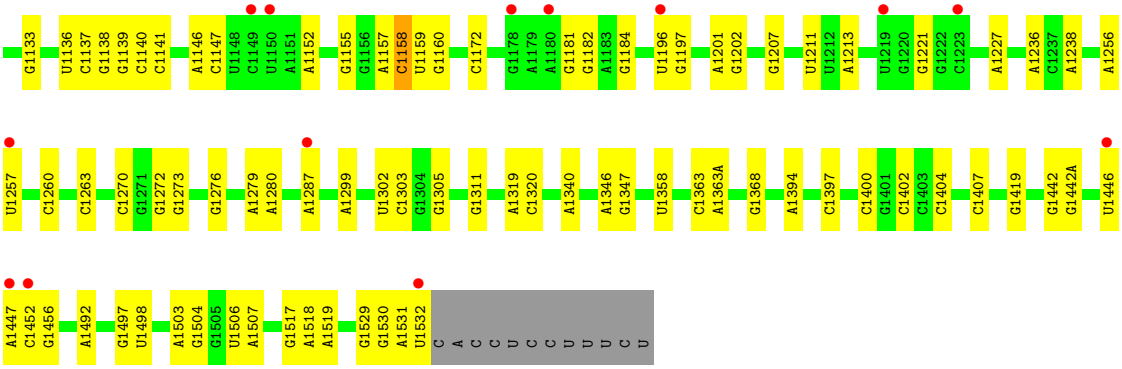




• Molecule 32: 16S Ribosomal RNA

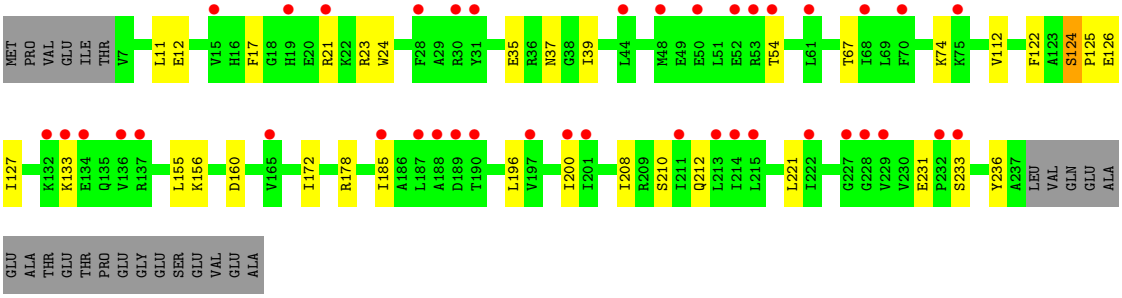
Chain 2a:





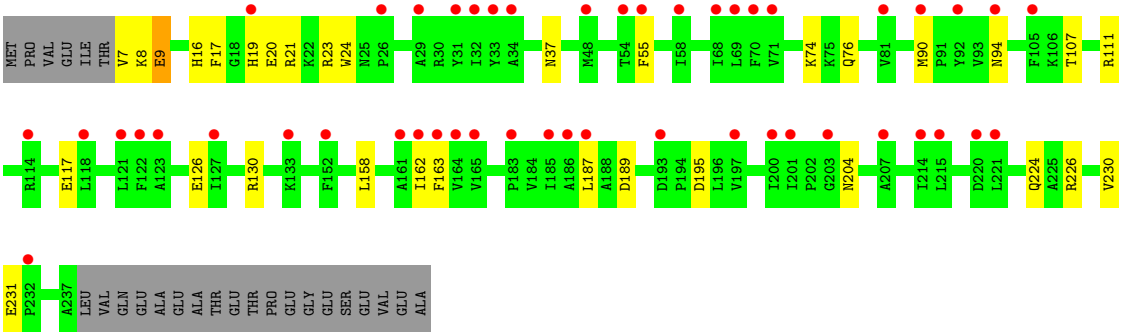
• Molecule 33: 30S ribosomal protein S2

Chain 1b:



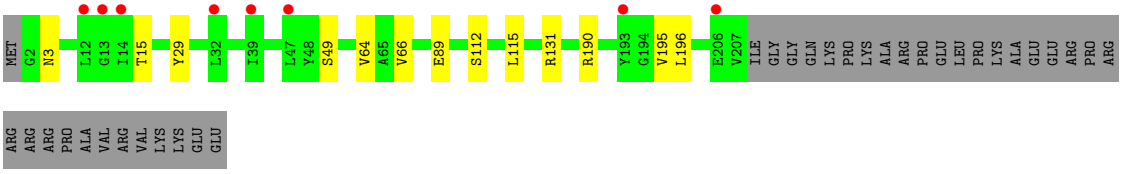
• Molecule 33: 30S ribosomal protein S2

Chain 2b:



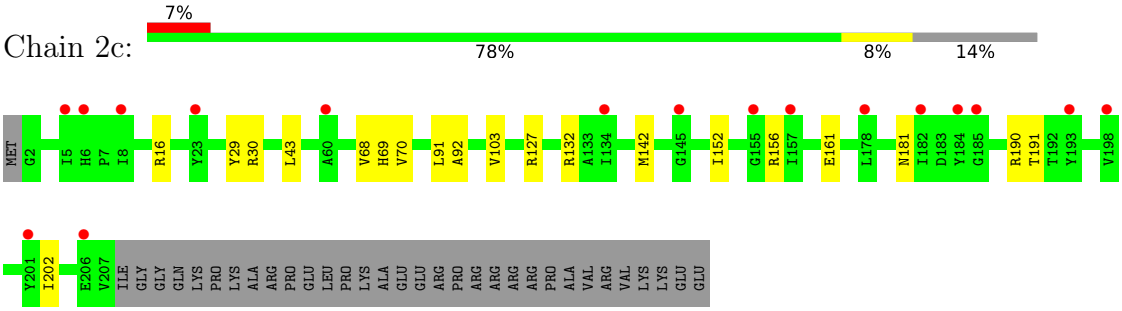
• Molecule 34: 30S ribosomal protein S3

Chain 1c:



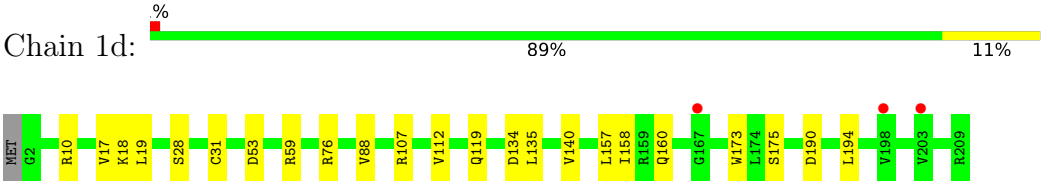
• Molecule 34: 30S ribosomal protein S3

Chain 2c:



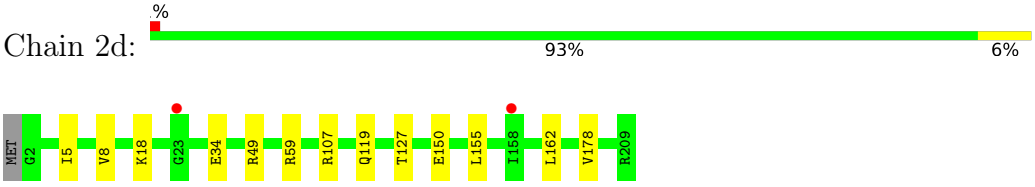
• Molecule 35: 30S ribosomal protein S4

Chain 1d:



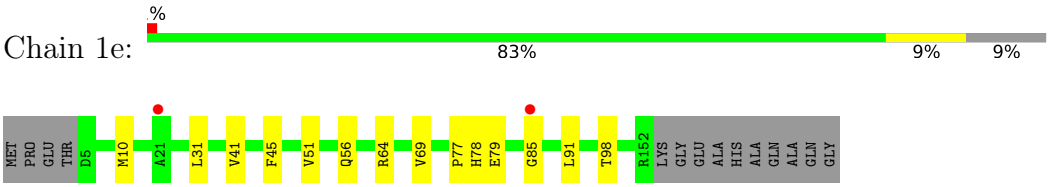
• Molecule 35: 30S ribosomal protein S4

Chain 2d:



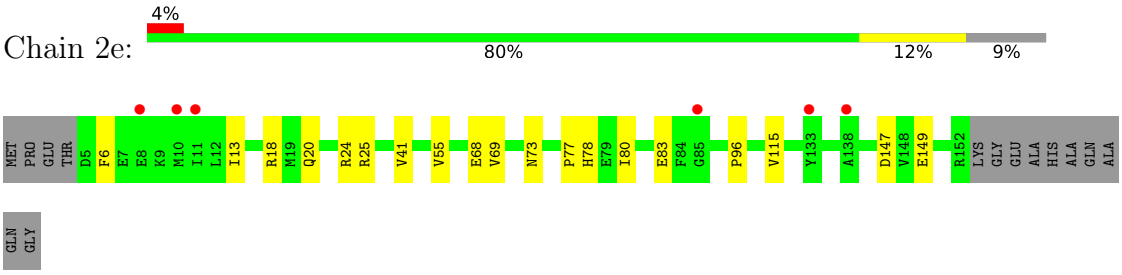
• Molecule 36: 30S ribosomal protein S5

Chain 1e:



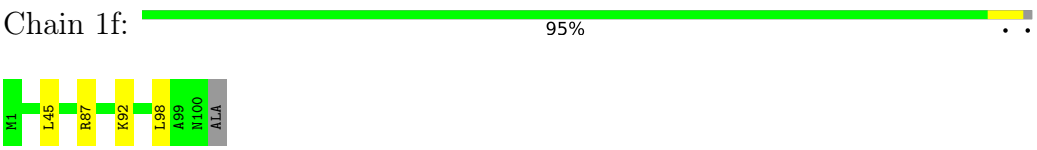
• Molecule 36: 30S ribosomal protein S5

Chain 2e:



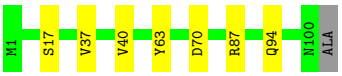
• Molecule 37: 30S ribosomal protein S6

Chain 1f:



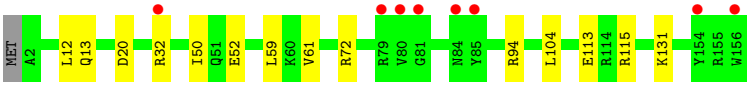
• Molecule 37: 30S ribosomal protein S6

Chain 2f:



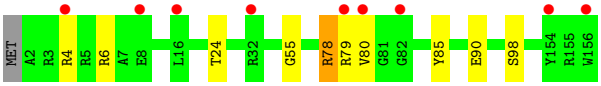
• Molecule 38: 30S ribosomal protein S7

Chain 1g:



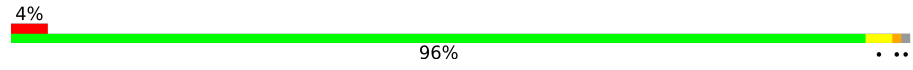
• Molecule 38: 30S ribosomal protein S7

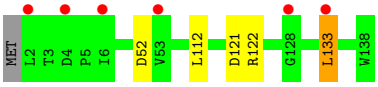
Chain 2g:



• Molecule 39: 30S ribosomal protein S8

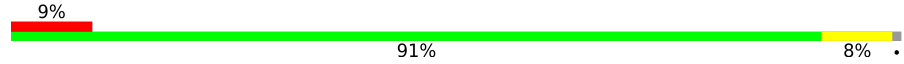
Chain 1h:

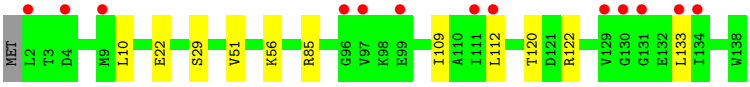




• Molecule 39: 30S ribosomal protein S8

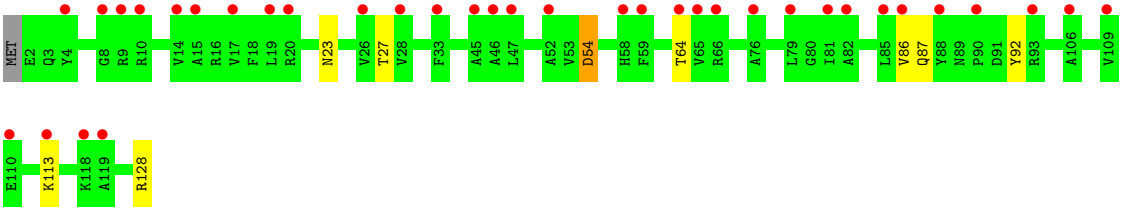
Chain 2h:





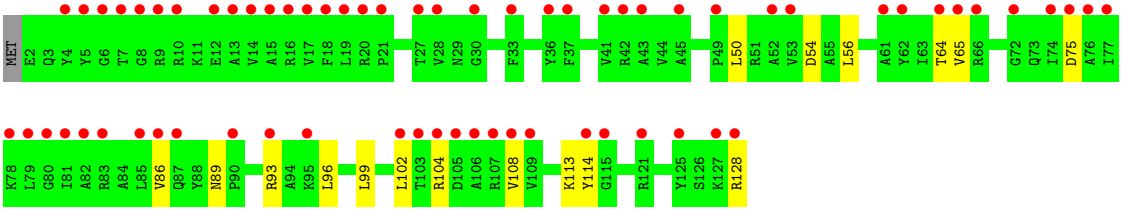
• Molecule 40: 30S ribosomal protein S9

Chain 1i:

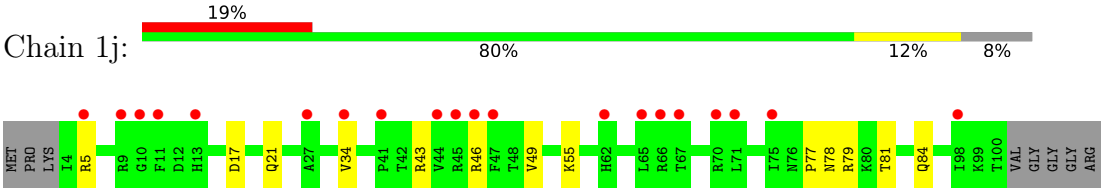


• Molecule 40: 30S ribosomal protein S9

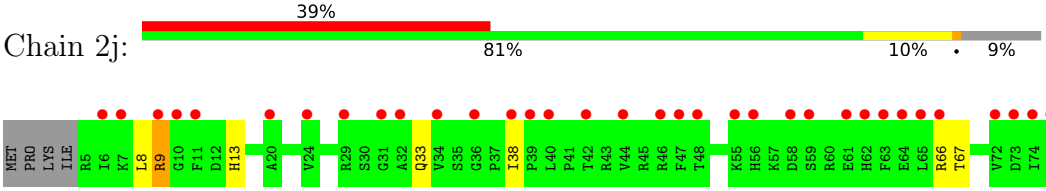
Chain 2i:



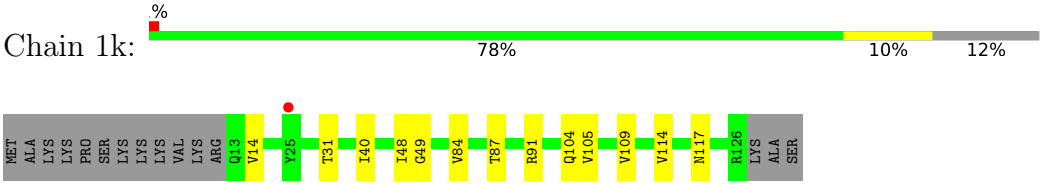
• Molecule 41: 30S ribosomal protein S10



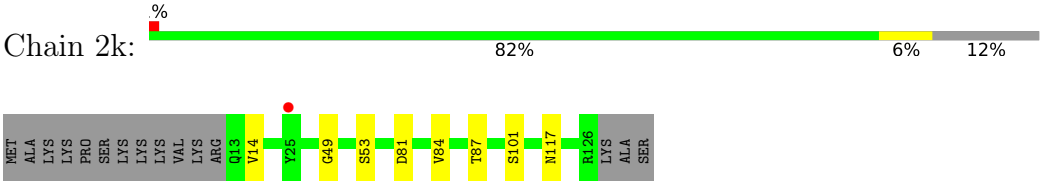
• Molecule 41: 30S ribosomal protein S10



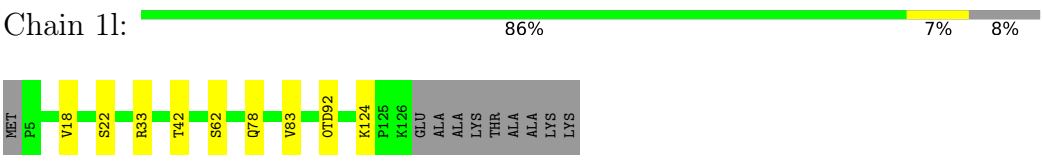
• Molecule 42: 30S ribosomal protein S11



• Molecule 42: 30S ribosomal protein S11

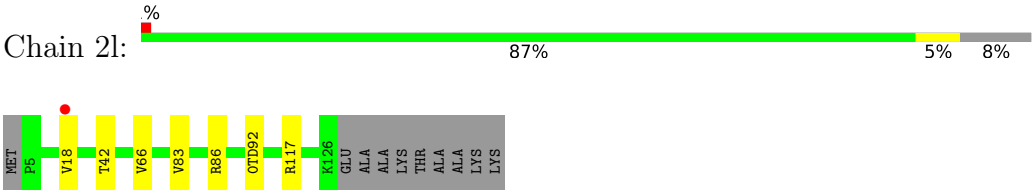


• Molecule 43: 30S ribosomal protein S12



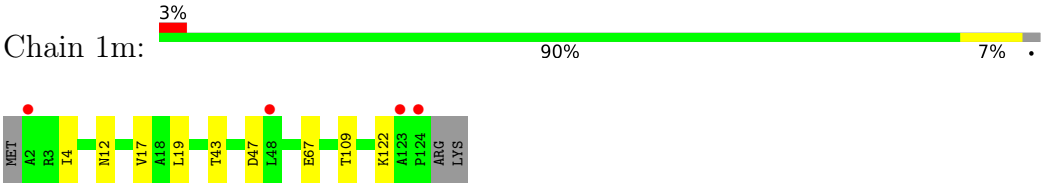
• Molecule 43: 30S ribosomal protein S12

Chain 2l:



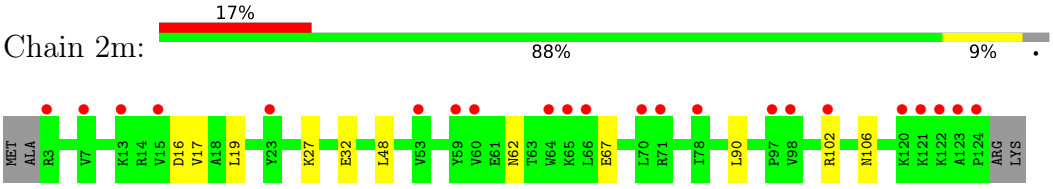
• Molecule 44: 30S ribosomal protein S13

Chain 1m:



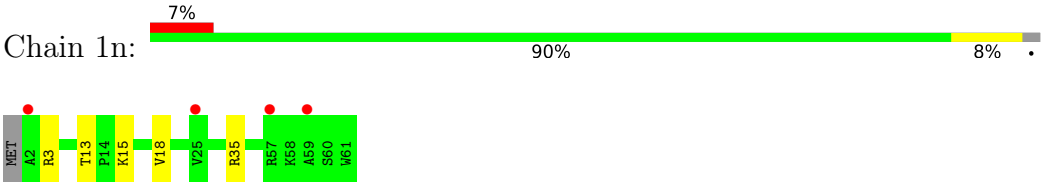
• Molecule 44: 30S ribosomal protein S13

Chain 2m:



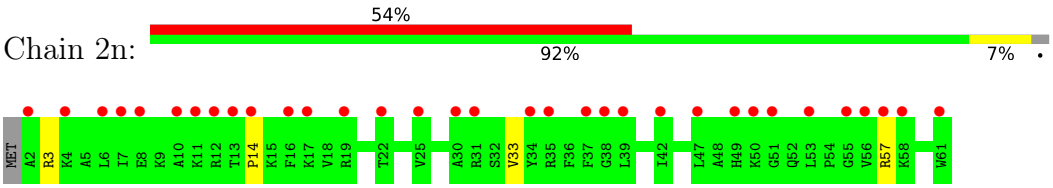
• Molecule 45: 30S ribosomal protein S14 type Z

Chain 1n:



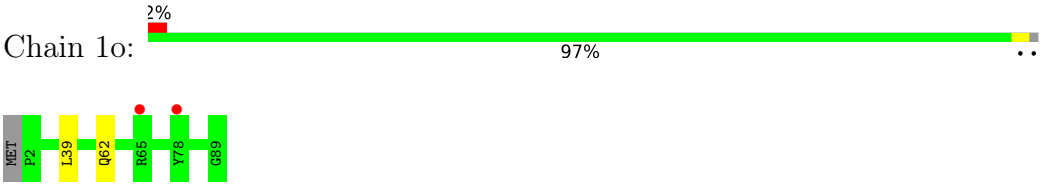
• Molecule 45: 30S ribosomal protein S14 type Z

Chain 2n:



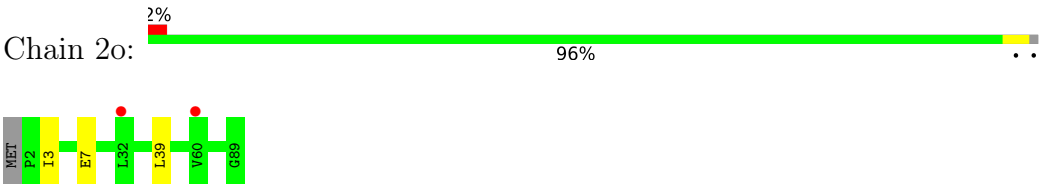
• Molecule 46: 30S ribosomal protein S15

Chain 1o:



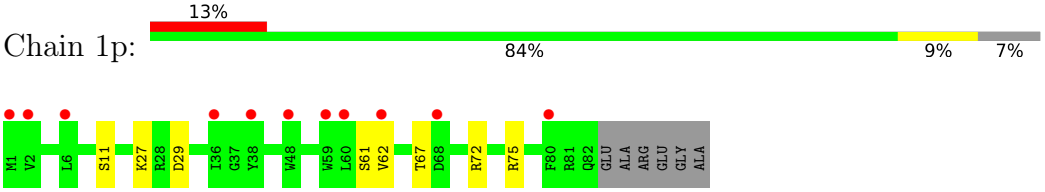
• Molecule 46: 30S ribosomal protein S15

Chain 2o:



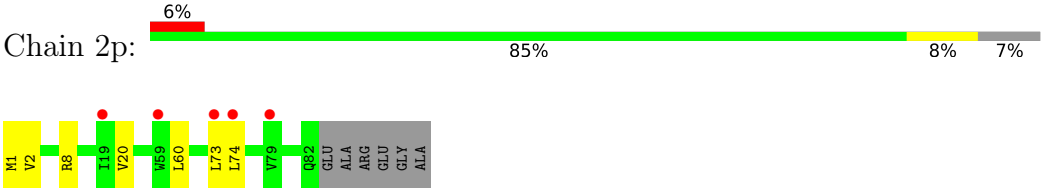
• Molecule 47: 30S ribosomal protein S16

Chain 1p:



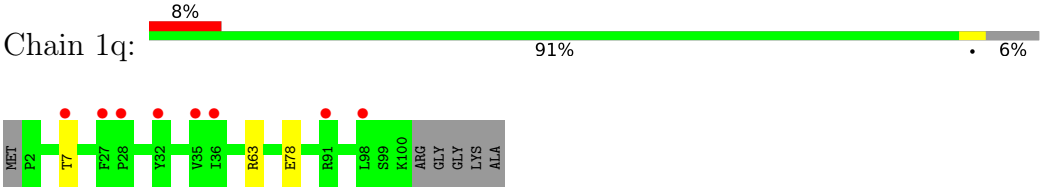
• Molecule 47: 30S ribosomal protein S16

Chain 2p:



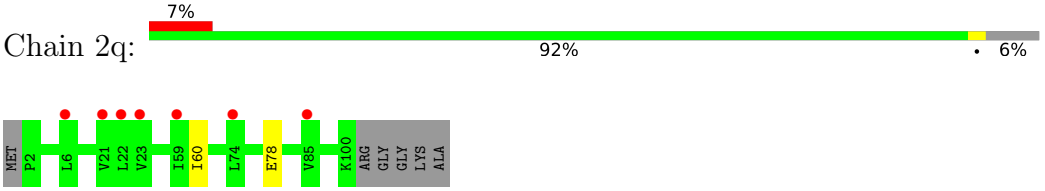
• Molecule 48: 30S ribosomal protein S17

Chain 1q:



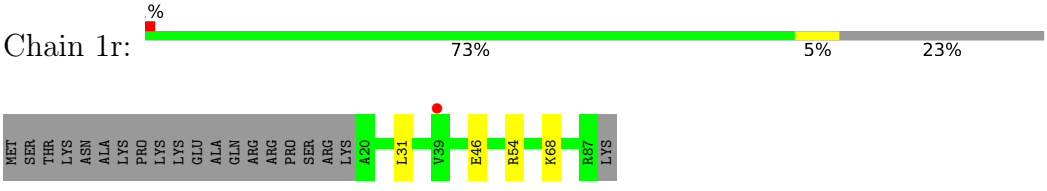
• Molecule 48: 30S ribosomal protein S17

Chain 2q:



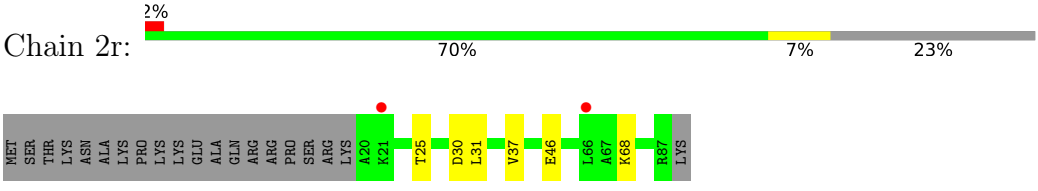
• Molecule 49: 30S ribosomal protein S18

Chain 1r:



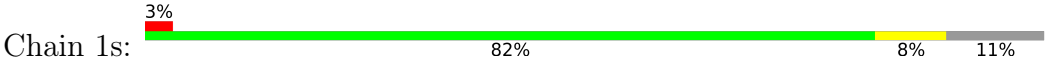
• Molecule 49: 30S ribosomal protein S18

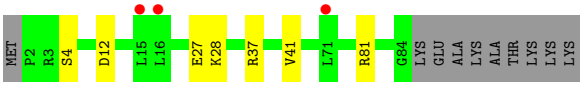
Chain 2r:



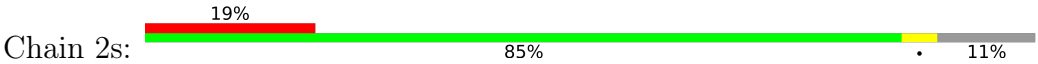
• Molecule 50: 30S ribosomal protein S19

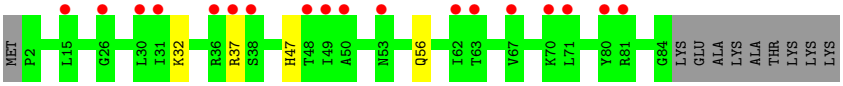
Chain 1s:



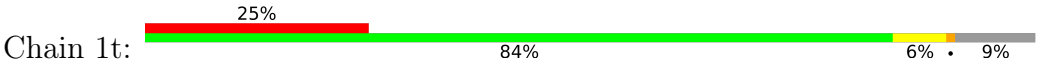


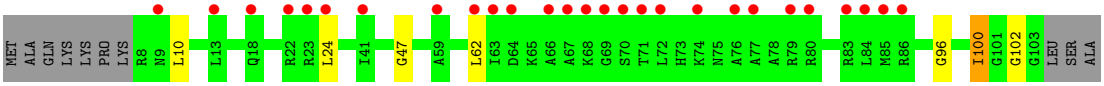
• Molecule 50: 30S ribosomal protein S19



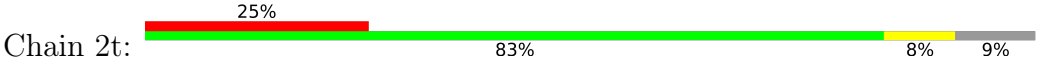


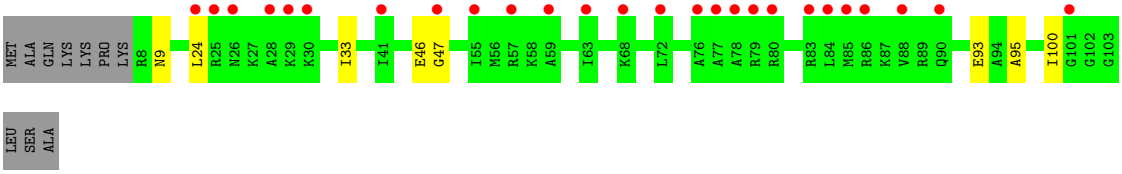
• Molecule 51: 30S ribosomal protein S20



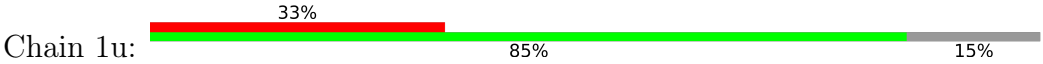


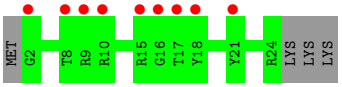
• Molecule 51: 30S ribosomal protein S20



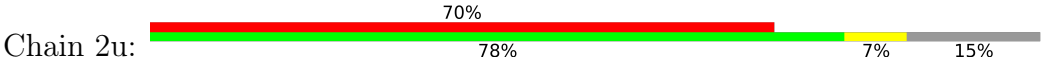


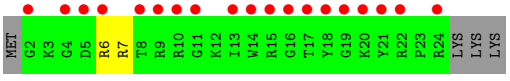
• Molecule 52: 30S ribosomal protein Thx





• Molecule 52: 30S ribosomal protein Thx





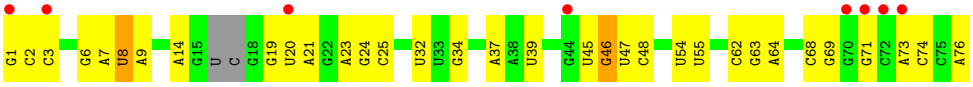
• Molecule 53: MF-mRNA

• Molecule 53: MF-mRNA

Chain 2v:

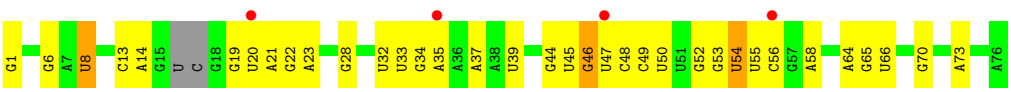
• Molecule 54: A- and E-site Deacylated tRNAphe

Chain 1w:



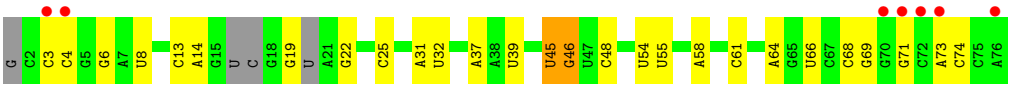
• Molecule 54: A- and E-site Deacylated tRNAphe

Chain 1y:



• Molecule 54: A- and E-site Deacylated tRNAphe

Chain 2w:

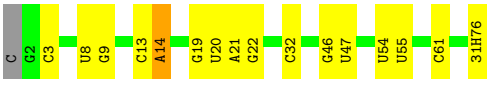


• Molecule 54: A- and E-site Deacylated tRNAphe

Chain 2y:

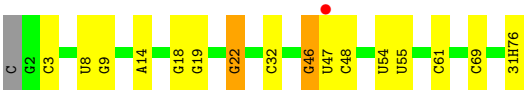
• Molecule 55: P-site Aminoacyl-tRNA fMet-tRNAmet

Chain 1x:



• Molecule 55: P-site Aminoacyl-tRNA fMet-tRNAmet

Chain 2x:


C
G2
C3
U8
C9
A14
G18
G19
G22
C32
G46
U47
C48
U54
U55
C61
C69
31H76

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.01Å 449.04Å 621.72Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	121.89 – 2.60 162.26 – 2.60	Depositor EDS
% Data completeness (in resolution range)	97.0 (121.89-2.60) 97.0 (162.26-2.60)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.27 (at 2.62Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.216 , 0.261 0.216 , 0.261	Depositor DCC
R_{free} test set	86389 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	55.5	Xtriage
Anisotropy	0.147	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 52.7	EDS
L-test for twinning[2]	$< \|L\| > = 0.41$, $< L^2 > = 0.23$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	299649	wwPDB-VP
Average B, all atoms (Å^2)	60.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.54% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 4OC, MIA, OMC, 5MU, UR3, 0TD, K, 4SU, 31H, SF4, MG, WC9, G7M, PSU, OMG, ZN, MA6, OMU, 8AH, 5MC, M2G, 2MG

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	0/69011	0.94	49/107720 (0.0%)
1	2A	0.38	0/67295	0.85	18/105042 (0.0%)
2	1B	0.43	1/2882 (0.0%)	0.85	0/4494
2	2B	0.38	1/2879 (0.0%)	0.83	1/4487 (0.0%)
3	1D	0.35	0/2186	0.55	0/2944
3	2D	0.31	0/2186	0.50	0/2944
4	1E	0.34	0/1592	0.55	0/2149
4	2E	0.30	0/1592	0.52	0/2149
5	1F	0.33	0/1619	0.53	0/2193
5	2F	0.30	0/1615	0.49	0/2188
6	1G	0.30	0/1448	0.50	0/1957
6	2G	0.29	0/1453	0.47	0/1963
7	1H	0.32	0/1356	0.49	0/1834
7	2H	0.28	0/1356	0.46	0/1834
8	1I	0.30	0/1112	0.49	0/1514
8	2I	0.29	0/1079	0.48	0/1475
9	1N	0.33	0/1144	0.50	0/1543
9	2N	0.28	0/1144	0.44	0/1543
10	1O	0.34	0/943	0.53	0/1269
10	2O	0.31	0/943	0.51	0/1269
11	1P	0.33	0/1152	0.59	0/1533
11	2P	0.30	0/1152	0.51	0/1533
12	1Q	0.36	0/1143	0.52	0/1527
12	2Q	0.30	0/1143	0.47	0/1527
13	1R	0.31	0/982	0.53	0/1312
13	2R	0.27	0/982	0.51	0/1312
14	1S	0.31	0/883	0.49	0/1176
14	2S	0.28	0/880	0.48	0/1172
15	1T	0.31	0/1105	0.52	0/1477
15	2T	0.29	0/1097	0.46	0/1468
16	1U	0.38	0/977	0.54	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
16	2U	0.29	0/977	0.43	0/1301
17	1V	0.33	0/782	0.54	0/1049
17	2V	0.30	0/782	0.49	0/1049
18	1W	0.35	0/897	0.52	0/1205
18	2W	0.31	0/897	0.48	0/1205
19	1X	0.34	0/764	0.56	0/1025
19	2X	0.30	0/764	0.54	0/1025
20	1Y	0.33	0/819	0.51	0/1095
20	2Y	0.32	0/819	0.52	0/1095
21	1Z	0.29	0/1267	0.51	0/1717
21	2Z	0.31	0/1299	0.50	0/1763
22	10	0.34	0/662	0.53	0/881
22	20	0.31	0/662	0.49	0/881
23	11	0.32	0/762	0.50	0/1014
23	21	0.31	0/762	0.52	0/1014
24	12	0.30	0/590	0.46	0/781
24	22	0.27	0/590	0.40	0/781
25	13	0.33	0/474	0.49	0/635
25	23	0.27	0/469	0.43	0/630
26	14	0.33	0/565	0.54	0/761
26	24	0.32	0/545	0.53	0/737
27	15	0.34	0/469	0.53	0/635
27	25	0.31	0/469	0.51	0/635
28	16	0.34	0/460	0.50	0/613
28	26	0.31	0/456	0.50	0/608
29	17	0.33	0/426	0.55	0/561
29	27	0.29	0/426	0.49	0/561
30	18	0.32	0/525	0.53	0/691
30	28	0.29	0/525	0.49	0/691
31	19	0.37	0/310	0.53	0/407
31	29	0.28	0/310	0.51	0/407
32	1a	0.36	0/35795	0.86	18/55864 (0.0%)
32	2a	0.35	3/35886 (0.0%)	0.88	34/56005 (0.1%)
33	1b	0.29	0/1881	0.49	0/2542
33	2b	0.30	0/1860	0.47	0/2518
34	1c	0.29	0/1572	0.48	0/2126
34	2c	0.31	0/1566	0.48	0/2119
35	1d	0.28	0/1685	0.47	0/2262
35	2d	0.29	0/1704	0.45	0/2284
36	1e	0.30	0/1145	0.50	0/1543
36	2e	0.31	0/1149	0.50	0/1548
37	1f	0.29	0/823	0.50	0/1115
37	2f	0.30	0/829	0.47	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	1g	0.27	0/1250	0.42	0/1679
38	2g	0.28	0/1254	0.44	0/1683
39	1h	0.29	0/1108	0.48	0/1494
39	2h	0.27	0/1108	0.45	0/1494
40	1i	0.28	0/1002	0.49	0/1346
40	2i	0.29	0/997	0.51	0/1343
41	1j	0.29	0/722	0.51	0/982
41	2j	0.28	0/727	0.52	0/988
42	1k	0.27	0/844	0.49	0/1145
42	2k	0.28	0/848	0.47	0/1149
43	1l	0.32	0/937	0.52	0/1260
43	2l	0.29	0/937	0.49	0/1260
44	1m	0.27	0/969	0.48	0/1302
44	2m	0.28	0/961	0.46	0/1291
45	1n	0.32	0/501	0.48	0/664
45	2n	0.30	0/501	0.47	0/664
46	1o	0.27	0/739	0.45	0/985
46	2o	0.26	0/739	0.42	0/985
47	1p	0.28	0/697	0.47	0/939
47	2p	0.29	0/693	0.51	0/935
48	1q	0.28	0/836	0.48	0/1117
48	2q	0.28	0/836	0.45	0/1117
49	1r	0.29	0/560	0.48	0/746
49	2r	0.28	0/560	0.48	0/746
50	1s	0.27	0/667	0.55	0/900
50	2s	0.29	0/661	0.55	0/893
51	1t	0.27	0/730	0.48	0/965
51	2t	0.28	0/729	0.44	0/965
52	1u	0.27	0/203	0.50	0/266
52	2u	0.32	0/203	0.55	0/266
53	1v	0.38	0/310	0.92	1/480 (0.2%)
53	2v	0.34	0/310	0.84	0/480
54	1w	0.49	1/1606 (0.1%)	1.01	1/2497 (0.0%)
54	1y	0.48	1/1606 (0.1%)	1.00	4/2497 (0.2%)
54	2w	0.46	0/1556	1.05	6/2418 (0.2%)
54	2y	0.48	1/1583 (0.1%)	0.99	0/2459
55	1x	0.52	3/1700 (0.2%)	1.11	17/2650 (0.6%)
55	2x	0.48	0/1700	1.07	14/2650 (0.5%)
All	All	0.39	11/316640 (0.0%)	0.81	163/474051 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a

sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
5	2F	0	1
33	1b	0	2
38	2g	0	1
All	All	0	4

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1y	1	G	OP3-P	-10.37	1.48	1.61
2	2B	1	U	OP3-P	-10.18	1.49	1.61
2	1B	1	U	OP3-P	-10.14	1.49	1.61
54	1w	1	G	OP3-P	-10.14	1.49	1.61
54	2y	1	G	OP3-P	-10.05	1.49	1.61
32	2a	1272	G	N1-C2	-9.30	1.30	1.37
32	2a	1272	G	C6-N1	-8.94	1.33	1.39
32	2a	1263	C	N3-C4	-6.07	1.29	1.33
55	1x	14	A	N7-C5	-6.04	1.35	1.39
55	1x	14	A	C8-N7	-5.52	1.27	1.31
55	1x	22	G	N7-C5	5.22	1.42	1.39

All (163) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	2a	1263	C	N1-C2-O2	27.44	135.36	118.90
32	2a	1272	G	N3-C2-N2	22.12	135.38	119.90
32	2a	1272	G	C5-C6-O6	21.23	141.34	128.60
32	2a	1272	G	N1-C2-N2	-19.72	98.45	116.20
32	2a	1263	C	C2-N3-C4	16.07	127.94	119.90
32	2a	1263	C	N3-C2-O2	-15.37	111.14	121.90
32	2a	1272	G	N1-C6-O6	-12.55	112.37	119.90
32	2a	1272	G	C6-N1-C2	11.74	132.15	125.10
32	2a	1263	C	C5-C6-N1	11.19	126.60	121.00
55	1x	46	G	C6-N1-C2	-11.13	118.42	125.10
1	1A	1075	C	N1-C2-O2	10.98	125.49	118.90
55	2x	46	G	C6-N1-C2	-10.78	118.63	125.10
32	2a	1272	G	C5-C6-N1	-10.50	106.25	111.50
55	1x	14	A	C4-C5-C6	10.28	122.14	117.00
1	1A	1063	G	C5-C6-O6	9.82	134.49	128.60
1	1A	1075	C	C2-N3-C4	9.67	124.73	119.90
32	2a	1272	G	C2-N3-C4	-9.34	107.23	111.90
32	2a	1263	C	C5-C4-N4	9.19	126.63	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	512	G	O4'-C1'-N9	9.11	115.49	108.20
32	2a	1263	C	C4-C5-C6	-9.01	112.89	117.40
32	2a	1263	C	N3-C4-N4	-8.97	111.72	118.00
55	1x	14	A	C5-N7-C8	8.76	108.28	103.90
32	2a	1263	C	C2-N1-C1'	8.76	128.44	118.80
1	2A	801	G	O5'-P-OP2	-8.59	97.97	105.70
55	2x	22	G	C5-N7-C8	-8.45	100.08	104.30
55	1x	22	G	C5-N7-C8	-8.44	100.08	104.30
1	1A	1063	G	C6-N1-C2	8.31	130.09	125.10
2	2B	80	U	O4'-C1'-N1	8.24	114.79	108.20
32	1a	1025	U	N1-C2-O2	8.20	128.54	122.80
54	1y	33	U	C2-N1-C1'	8.17	127.50	117.70
32	2a	1263	C	N1-C2-N3	-8.16	113.49	119.20
1	1A	2167	U	C2-N1-C1'	8.15	127.48	117.70
1	1A	2167	U	N1-C2-O2	7.78	128.25	122.80
55	2x	14	A	C5-N7-C8	7.75	107.78	103.90
1	2A	1298	C	O5'-P-OP2	-7.72	98.75	105.70
32	1a	1030	C	C2-N3-C4	7.70	123.75	119.90
32	2a	1263	C	C6-N1-C2	-7.45	117.32	120.30
55	1x	46	G	N3-C2-N2	-7.17	114.88	119.90
1	1A	801	G	O5'-P-OP2	-7.10	99.31	105.70
55	1x	14	A	C5-C6-N1	-6.99	114.20	117.70
1	1A	2036	C	O5'-P-OP1	-6.99	99.41	105.70
32	2a	1272	G	C8-N9-C1'	-6.95	117.96	127.00
32	2a	1272	G	C4-N9-C1'	6.86	135.42	126.50
1	1A	2167	U	N3-C2-O2	-6.86	117.40	122.20
55	2x	14	A	C4-C5-C6	6.83	120.42	117.00
32	2a	1065	U	P-O3'-C3'	6.79	127.84	119.70
1	1A	975	C	N1-C2-O2	-6.76	114.85	118.90
55	2x	46	G	C5-C6-N1	6.74	114.87	111.50
55	1x	22	G	C4-C5-C6	-6.73	114.76	118.80
54	2w	3	C	C2-N3-C4	6.69	123.24	119.90
54	1y	33	U	N1-C2-O2	6.68	127.48	122.80
1	1A	1075	C	C5-C4-N4	6.60	124.82	120.20
1	1A	1063	G	N3-C2-N2	6.58	124.50	119.90
1	1A	1080	C	C2-N3-C4	6.54	123.17	119.90
1	1A	1993	U	O5'-P-OP1	-6.52	99.83	105.70
55	1x	46	G	C5-C6-N1	6.50	114.75	111.50
55	2x	22	G	N7-C8-N9	6.42	116.31	113.10
1	1A	1992	G	P-O3'-C3'	6.40	127.38	119.70
1	2A	512	G	O4'-C1'-N9	6.36	113.29	108.20
1	1A	1249	U	O5'-P-OP1	-6.30	100.03	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	2a	754	C	C2-N1-C1'	6.28	125.71	118.80
55	2x	46	G	N3-C2-N2	-6.26	115.52	119.90
54	2w	45	U	N1-C2-O2	6.25	127.18	122.80
1	1A	1086	A	N1-C6-N6	-6.15	114.91	118.60
55	1x	22	G	C5-C6-N1	6.11	114.56	111.50
55	1x	46	G	C5-C6-O6	-6.08	124.95	128.60
1	1A	1105	U	C5-C4-O4	-6.07	122.26	125.90
1	1A	1080	C	N1-C2-O2	5.99	122.49	118.90
1	1A	2682	U	O5'-P-OP2	-5.98	100.32	105.70
1	1A	1075	C	N3-C2-O2	-5.97	117.72	121.90
32	1a	1031	G	C5-C6-O6	5.93	132.16	128.60
1	2A	847	U	C2-N1-C1'	5.93	124.81	117.70
32	1a	1030	C	C5-C4-N4	5.90	124.33	120.20
32	1a	1025	U	N3-C2-O2	-5.86	118.10	122.20
1	1A	531	C	O5'-P-OP2	-5.85	100.43	105.70
1	2A	2136	C	N1-C2-O2	5.81	122.39	118.90
55	2x	22	G	C4-C5-C6	-5.81	115.31	118.80
55	1x	22	G	N7-C8-N9	5.80	116.00	113.10
1	1A	198	C	O5'-P-OP2	-5.78	100.50	105.70
32	2a	1158	C	C2-N1-C1'	5.75	125.13	118.80
32	1a	1030	C	N1-C2-O2	5.74	122.34	118.90
1	1A	1176	G	OP1-P-O3'	5.72	117.78	105.20
1	1A	1776	G	O5'-P-OP2	-5.69	100.58	105.70
32	2a	1039	C	N1-C2-O2	5.69	122.31	118.90
55	1x	22	G	N1-C6-O6	-5.67	116.50	119.90
55	1x	14	A	C4-N9-C1'	5.67	136.50	126.30
1	1A	1174	A	OP1-P-O3'	5.63	117.59	105.20
32	2a	1221	G	C6-N1-C2	5.61	128.47	125.10
1	1A	2028	U	N3-C4-O4	-5.60	115.48	119.40
55	2x	22	G	N1-C6-O6	-5.60	116.54	119.90
32	1a	90	U	C2-N1-C1'	5.58	124.39	117.70
32	1a	754	C	C2-N1-C1'	5.57	124.93	118.80
32	2a	1263	C	C6-N1-C1'	-5.54	114.15	120.80
1	1A	784	A	O4'-C1'-N9	5.54	112.63	108.20
55	1x	14	A	C8-N9-C1'	-5.54	117.74	127.70
1	1A	847	U	C2-N1-C1'	5.53	124.34	117.70
32	2a	79	G	C5-C6-O6	5.53	131.92	128.60
1	1A	944	G	C6-C5-N7	-5.53	127.08	130.40
1	2A	1416	G	O4'-C1'-N9	5.52	112.61	108.20
55	1x	46	G	N1-C2-N3	5.50	127.20	123.90
1	1A	1063	G	N1-C6-O6	-5.48	116.61	119.90
1	2A	1204	A	O4'-C1'-N9	5.48	112.58	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1y	33	U	N3-C2-O2	-5.47	118.37	122.20
55	2x	14	A	C5-C6-N1	-5.47	114.97	117.70
55	2x	22	G	C5-C6-N1	5.47	114.23	111.50
1	2A	1380	G	O5'-P-OP2	-5.45	100.80	105.70
1	2A	2689	U	P-O3'-C3'	5.44	126.23	119.70
1	1A	1174	A	P-O3'-C3'	5.43	126.22	119.70
55	2x	14	A	C4-C5-N7	-5.43	107.98	110.70
55	2x	46	G	N1-C2-N3	5.41	127.15	123.90
54	1y	33	U	C6-N1-C1'	-5.40	113.64	121.20
1	1A	383	U	C2-N1-C1'	-5.38	111.24	117.70
32	1a	115	G	P-O3'-C3'	5.37	126.14	119.70
54	2w	3	C	C5-C6-N1	5.37	123.68	121.00
32	1a	1030	C	N3-C4-C5	-5.36	119.75	121.90
32	2a	1026	G	C4-N9-C1'	5.34	133.44	126.50
1	2A	1698	A	O4'-C1'-N9	5.32	112.46	108.20
55	2x	46	G	N3-C4-C5	-5.32	125.94	128.60
1	1A	1080	C	N3-C4-C5	-5.32	119.77	121.90
1	2A	383	U	O4'-C1'-N1	5.29	112.44	108.20
1	1A	372	G	O4'-C1'-N9	5.28	112.43	108.20
1	1A	576	U	O5'-P-OP1	-5.28	100.94	105.70
1	1A	2167	U	C6-N1-C1'	-5.27	113.82	121.20
32	2a	1065	U	OP2-P-O3'	5.26	116.77	105.20
1	1A	1086	A	C5-C6-N1	5.26	120.33	117.70
1	1A	2789	C	C2-N1-C1'	-5.26	113.01	118.80
1	1A	1313	U	C2-N1-C1'	5.25	124.00	117.70
32	2a	65	U	P-O3'-C3'	5.24	125.99	119.70
32	2a	563	A	O4'-C1'-N9	5.24	112.39	108.20
32	2a	687	A	P-O3'-C3'	5.24	125.99	119.70
1	1A	567	A	O5'-P-OP1	-5.23	100.99	105.70
1	2A	1992	G	P-O3'-C3'	5.22	125.97	119.70
32	1a	1067	A	P-O3'-C3'	5.22	125.96	119.70
32	2a	913	A	P-O3'-C3'	5.21	125.96	119.70
1	1A	975	C	C2-N1-C1'	-5.21	113.06	118.80
32	1a	913	A	P-O3'-C3'	5.21	125.95	119.70
1	1A	1063	G	C5-C6-N1	-5.21	108.90	111.50
1	1A	2629	A	P-O3'-C3'	5.20	125.94	119.70
55	1x	22	G	C8-N9-C1'	5.20	133.76	127.00
1	1A	944	G	C4-N9-C1'	5.20	133.26	126.50
32	1a	955	U	C2-N3-C4	5.20	130.12	127.00
53	1v	19	U	C2-N3-C4	5.20	130.12	127.00
1	2A	2501	C	O4'-C1'-N1	5.18	112.34	108.20
32	1a	687	A	P-O3'-C3'	5.16	125.89	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	2028	U	N1-C2-O2	5.16	126.41	122.80
1	2A	1647	G	O4'-C1'-N9	-5.14	104.09	108.20
1	2A	1313	U	C2-N1-C1'	5.13	123.86	117.70
32	2a	115	G	P-O3'-C3'	5.13	125.86	119.70
1	1A	570	G	C5-C6-O6	-5.09	125.54	128.60
1	2A	1653	G	P-O3'-C3'	5.08	125.80	119.70
1	1A	944	G	C8-N9-C1'	-5.08	120.40	127.00
54	1w	45	U	N1-C2-O2	5.07	126.35	122.80
54	2w	13	C	OP1-P-O3'	5.07	116.36	105.20
54	2w	13	C	P-O3'-C3'	5.07	125.79	119.70
1	2A	141	A	N7-C8-N9	5.06	116.33	113.80
32	1a	748	C	P-O3'-C3'	5.06	125.77	119.70
1	2A	2318	G	N3-C4-N9	5.05	129.03	126.00
55	1x	14	A	N1-C6-N6	5.04	121.62	118.60
54	2w	25	C	C6-N1-C2	-5.04	118.28	120.30
32	1a	1158	C	N1-C2-O2	5.02	121.91	118.90
32	1a	1225	A	C6-N1-C2	5.02	121.61	118.60
32	2a	1025	U	C2-N1-C1'	5.01	123.71	117.70
32	1a	1036	G	N1-C6-O6	-5.00	116.90	119.90

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
33	1b	122	PHE	Peptide
33	1b	124	SER	Peptide
5	2F	20	LEU	Peptide
38	2g	78	ARG	Peptide

5.2 Too-close contacts (i)

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

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1D	273/276 (99%)	255 (93%)	18 (7%)	0	100	100
3	2D	273/276 (99%)	257 (94%)	16 (6%)	0	100	100
4	1E	202/206 (98%)	191 (95%)	10 (5%)	1 (0%)	29	52
4	2E	202/206 (98%)	187 (93%)	14 (7%)	1 (0%)	29	52
5	1F	201/210 (96%)	194 (96%)	6 (3%)	1 (0%)	29	52
5	2F	201/210 (96%)	196 (98%)	1 (0%)	4 (2%)	7	14
6	1G	179/182 (98%)	167 (93%)	12 (7%)	0	100	100
6	2G	179/182 (98%)	153 (86%)	23 (13%)	3 (2%)	9	18
7	1H	172/180 (96%)	163 (95%)	8 (5%)	1 (1%)	25	47
7	2H	172/180 (96%)	152 (88%)	20 (12%)	0	100	100
8	1I	144/148 (97%)	124 (86%)	20 (14%)	0	100	100
8	2I	144/148 (97%)	126 (88%)	17 (12%)	1 (1%)	22	43
9	1N	138/140 (99%)	134 (97%)	3 (2%)	1 (1%)	22	43
9	2N	138/140 (99%)	125 (91%)	11 (8%)	2 (1%)	11	22
10	1O	120/122 (98%)	115 (96%)	5 (4%)	0	100	100
10	2O	120/122 (98%)	112 (93%)	8 (7%)	0	100	100
11	1P	147/150 (98%)	128 (87%)	15 (10%)	4 (3%)	5	8
11	2P	147/150 (98%)	132 (90%)	11 (8%)	4 (3%)	5	8
12	1Q	139/141 (99%)	131 (94%)	8 (6%)	0	100	100
12	2Q	139/141 (99%)	126 (91%)	13 (9%)	0	100	100
13	1R	116/118 (98%)	112 (97%)	4 (3%)	0	100	100
13	2R	116/118 (98%)	110 (95%)	6 (5%)	0	100	100
14	1S	108/112 (96%)	104 (96%)	4 (4%)	0	100	100
14	2S	108/112 (96%)	99 (92%)	7 (6%)	2 (2%)	8	15
15	1T	129/146 (88%)	121 (94%)	7 (5%)	1 (1%)	19	39
15	2T	129/146 (88%)	119 (92%)	10 (8%)	0	100	100
16	1U	114/118 (97%)	113 (99%)	1 (1%)	0	100	100
16	2U	114/118 (97%)	110 (96%)	4 (4%)	0	100	100
17	1V	99/101 (98%)	94 (95%)	3 (3%)	2 (2%)	7	14
17	2V	99/101 (98%)	89 (90%)	8 (8%)	2 (2%)	7	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
18	1W	110/113 (97%)	109 (99%)	1 (1%)	0	100 100
18	2W	110/113 (97%)	109 (99%)	1 (1%)	0	100 100
19	1X	93/96 (97%)	88 (95%)	4 (4%)	1 (1%)	14 30
19	2X	93/96 (97%)	86 (92%)	7 (8%)	0	100 100
20	1Y	105/110 (96%)	96 (91%)	9 (9%)	0	100 100
20	2Y	105/110 (96%)	99 (94%)	6 (6%)	0	100 100
21	1Z	148/206 (72%)	130 (88%)	16 (11%)	2 (1%)	11 22
21	2Z	156/206 (76%)	128 (82%)	23 (15%)	5 (3%)	4 6
22	10	81/85 (95%)	81 (100%)	0	0	100 100
22	20	81/85 (95%)	76 (94%)	5 (6%)	0	100 100
23	11	95/98 (97%)	89 (94%)	5 (5%)	1 (1%)	14 30
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%)	65 (96%)	3 (4%)	0	100 100
25	13	57/60 (95%)	54 (95%)	3 (5%)	0	100 100
25	23	57/60 (95%)	51 (90%)	6 (10%)	0	100 100
26	14	67/71 (94%)	52 (78%)	10 (15%)	5 (8%)	1 1
26	24	67/71 (94%)	53 (79%)	11 (16%)	3 (4%)	2 3
27	15	57/60 (95%)	55 (96%)	2 (4%)	0	100 100
27	25	57/60 (95%)	54 (95%)	3 (5%)	0	100 100
28	16	51/54 (94%)	51 (100%)	0	0	100 100
28	26	51/54 (94%)	49 (96%)	2 (4%)	0	100 100
29	17	46/49 (94%)	44 (96%)	2 (4%)	0	100 100
29	27	46/49 (94%)	46 (100%)	0	0	100 100
30	18	62/65 (95%)	62 (100%)	0	0	100 100
30	28	62/65 (95%)	62 (100%)	0	0	100 100
31	19	35/37 (95%)	35 (100%)	0	0	100 100
31	29	35/37 (95%)	34 (97%)	1 (3%)	0	100 100
33	1b	229/256 (90%)	200 (87%)	22 (10%)	7 (3%)	4 6
33	2b	229/256 (90%)	182 (80%)	39 (17%)	8 (4%)	3 5
34	1c	204/239 (85%)	182 (89%)	22 (11%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
34	2c	204/239 (85%)	170 (83%)	30 (15%)	4 (2%)	7 14
35	1d	206/209 (99%)	191 (93%)	13 (6%)	2 (1%)	15 32
35	2d	206/209 (99%)	195 (95%)	9 (4%)	2 (1%)	15 32
36	1e	146/162 (90%)	129 (88%)	14 (10%)	3 (2%)	7 13
36	2e	146/162 (90%)	131 (90%)	12 (8%)	3 (2%)	7 13
37	1f	98/101 (97%)	92 (94%)	6 (6%)	0	100 100
37	2f	98/101 (97%)	96 (98%)	2 (2%)	0	100 100
38	1g	153/156 (98%)	146 (95%)	6 (4%)	1 (1%)	22 43
38	2g	153/156 (98%)	139 (91%)	12 (8%)	2 (1%)	12 24
39	1h	135/138 (98%)	126 (93%)	8 (6%)	1 (1%)	22 43
39	2h	135/138 (98%)	129 (96%)	6 (4%)	0	100 100
40	1i	125/128 (98%)	110 (88%)	14 (11%)	1 (1%)	19 39
40	2i	125/128 (98%)	112 (90%)	13 (10%)	0	100 100
41	1j	95/105 (90%)	83 (87%)	9 (10%)	3 (3%)	4 6
41	2j	94/105 (90%)	79 (84%)	11 (12%)	4 (4%)	2 3
42	1k	112/129 (87%)	100 (89%)	10 (9%)	2 (2%)	8 16
42	2k	112/129 (87%)	99 (88%)	11 (10%)	2 (2%)	8 16
43	1l	119/132 (90%)	107 (90%)	12 (10%)	0	100 100
43	2l	119/132 (90%)	111 (93%)	8 (7%)	0	100 100
44	1m	121/126 (96%)	109 (90%)	11 (9%)	1 (1%)	19 39
44	2m	120/126 (95%)	104 (87%)	15 (12%)	1 (1%)	19 39
45	1n	58/61 (95%)	52 (90%)	6 (10%)	0	100 100
45	2n	58/61 (95%)	50 (86%)	7 (12%)	1 (2%)	9 18
46	1o	86/89 (97%)	81 (94%)	5 (6%)	0	100 100
46	2o	86/89 (97%)	79 (92%)	7 (8%)	0	100 100
47	1p	80/88 (91%)	69 (86%)	11 (14%)	0	100 100
47	2p	80/88 (91%)	75 (94%)	5 (6%)	0	100 100
48	1q	97/105 (92%)	89 (92%)	8 (8%)	0	100 100
48	2q	97/105 (92%)	93 (96%)	4 (4%)	0	100 100
49	1r	66/88 (75%)	58 (88%)	8 (12%)	0	100 100
49	2r	66/88 (75%)	59 (89%)	7 (11%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
50	1s	81/93 (87%)	71 (88%)	8 (10%)	2 (2%)	5 9
50	2s	81/93 (87%)	68 (84%)	13 (16%)	0	100 100
51	1t	94/106 (89%)	84 (89%)	6 (6%)	4 (4%)	2 3
51	2t	94/106 (89%)	86 (92%)	6 (6%)	2 (2%)	7 13
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	11370/12128 (94%)	10431 (92%)	836 (7%)	103 (1%)	17 35

All (103) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
11	1P	36	LYS
21	1Z	53	ILE
26	14	62	ARG
33	1b	17	PHE
33	1b	125	PRO
42	1k	105	VAL
44	1m	67	GLU
51	1t	100	ILE
6	2G	84	LYS
11	2P	29	LYS
21	2Z	52	SER
33	2b	9	GLU
33	2b	17	PHE
33	2b	21	ARG
33	2b	126	GLU
33	2b	231	GLU
34	2c	91	LEU
38	2g	80	VAL
5	1F	130	ALA
7	1H	159	GLU
17	1V	43	GLU
17	1V	79	VAL
23	11	3	LYS
33	1b	126	GLU
35	1d	173	TRP
38	1g	52	GLU
40	1i	54	ASP
50	1s	81	ARG
5	2F	130	ALA

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Mol	Chain	Res	Type
6	2G	42	GLY
17	2V	79	VAL
21	2Z	144	LEU
26	24	48	ARG
38	2g	55	GLY
42	2k	49	GLY
51	2t	47	GLY
4	1E	52	LEU
11	1P	38	GLN
15	1T	37	GLY
26	14	49	PHE
41	1j	79	ARG
4	2E	52	LEU
6	2G	43	LEU
11	2P	36	LYS
14	2S	109	GLY
26	24	47	GLN
26	24	49	PHE
33	2b	20	GLU
33	2b	74	LYS
34	2c	92	ALA
34	2c	181	ASN
35	2d	18	LYS
41	2j	78	ASN
51	2t	95	ALA
11	1P	45	LEU
21	1Z	163	LEU
33	1b	155	LEU
35	1d	88	VAL
36	1e	85	GLY
39	1h	133	LEU
41	1j	78	ASN
5	2F	21	ALA
5	2F	168	ARG
8	2I	117	GLU
17	2V	53	GLU
21	2Z	93	ASP
33	2b	226	ARG
34	2c	156	ARG
41	2j	9	ARG
41	2j	77	PRO
41	2j	79	ARG

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Mol	Chain	Res	Type
44	2m	67	GLU
9	1N	2	LYS
26	14	47	GLN
26	14	59	PHE
33	1b	124	SER
41	1j	77	PRO
42	1k	49	GLY
51	1t	96	GLY
51	1t	102	GLY
5	2F	18	ARG
9	2N	2	LYS
11	2P	38	GLN
11	2P	45	LEU
36	2e	69	VAL
33	1b	37	ASN
33	1b	231	GLU
36	1e	69	VAL
36	1e	77	PRO
50	1s	27	GLU
9	2N	23	LEU
14	2S	84	GLN
35	2d	5	ILE
36	2e	96	PRO
42	2k	117	ASN
26	14	45	GLY
51	1t	47	GLY
21	2Z	146	ILE
21	2Z	171	ILE
45	2n	14	PRO
19	1X	94	GLY
36	2e	77	PRO
11	1P	122	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	1D	215/218 (99%)	207 (96%)	8 (4%)	34 60
3	2D	215/218 (99%)	208 (97%)	7 (3%)	38 64
4	1E	164/166 (99%)	156 (95%)	8 (5%)	25 48
4	2E	164/166 (99%)	157 (96%)	7 (4%)	29 54
5	1F	160/166 (96%)	145 (91%)	15 (9%)	8 17
5	2F	159/166 (96%)	148 (93%)	11 (7%)	15 31
6	1G	143/156 (92%)	132 (92%)	11 (8%)	13 25
6	2G	143/156 (92%)	127 (89%)	16 (11%)	6 10
7	1H	144/148 (97%)	135 (94%)	9 (6%)	18 36
7	2H	144/148 (97%)	135 (94%)	9 (6%)	18 36
8	1I	113/124 (91%)	95 (84%)	18 (16%)	2 4
8	2I	105/124 (85%)	90 (86%)	15 (14%)	3 5
9	1N	118/119 (99%)	114 (97%)	4 (3%)	37 63
9	2N	118/119 (99%)	111 (94%)	7 (6%)	19 39
10	1O	100/100 (100%)	98 (98%)	2 (2%)	55 78
10	2O	100/100 (100%)	94 (94%)	6 (6%)	19 39
11	1P	115/116 (99%)	106 (92%)	9 (8%)	12 25
11	2P	115/116 (99%)	110 (96%)	5 (4%)	29 54
12	1Q	111/111 (100%)	101 (91%)	10 (9%)	9 18
12	2Q	111/111 (100%)	108 (97%)	3 (3%)	44 71
13	1R	101/101 (100%)	96 (95%)	5 (5%)	24 47
13	2R	101/101 (100%)	98 (97%)	3 (3%)	41 67
14	1S	86/88 (98%)	77 (90%)	9 (10%)	7 13
14	2S	85/88 (97%)	76 (89%)	9 (11%)	6 12
15	1T	115/127 (91%)	111 (96%)	4 (4%)	36 62
15	2T	113/127 (89%)	106 (94%)	7 (6%)	18 37
16	1U	93/94 (99%)	90 (97%)	3 (3%)	39 65
16	2U	93/94 (99%)	89 (96%)	4 (4%)	29 54
17	1V	80/82 (98%)	78 (98%)	2 (2%)	47 73
17	2V	80/82 (98%)	76 (95%)	4 (5%)	24 47
18	1W	90/92 (98%)	88 (98%)	2 (2%)	52 76
18	2W	90/92 (98%)	88 (98%)	2 (2%)	52 76

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
19	1X	77/78 (99%)	77 (100%)	0	100 100
19	2X	77/78 (99%)	73 (95%)	4 (5%)	23 46
20	1Y	85/91 (93%)	75 (88%)	10 (12%)	5 9
20	2Y	85/91 (93%)	78 (92%)	7 (8%)	11 22
21	1Z	135/179 (75%)	122 (90%)	13 (10%)	8 16
21	2Z	137/179 (76%)	120 (88%)	17 (12%)	4 8
22	10	65/67 (97%)	65 (100%)	0	100 100
22	20	65/67 (97%)	62 (95%)	3 (5%)	27 51
23	11	80/83 (96%)	74 (92%)	6 (8%)	13 27
23	21	80/83 (96%)	74 (92%)	6 (8%)	13 27
24	12	65/67 (97%)	61 (94%)	4 (6%)	18 37
24	22	65/67 (97%)	61 (94%)	4 (6%)	18 37
25	13	51/52 (98%)	48 (94%)	3 (6%)	19 39
25	23	50/52 (96%)	47 (94%)	3 (6%)	19 39
26	14	59/63 (94%)	48 (81%)	11 (19%)	1 2
26	24	53/63 (84%)	40 (76%)	13 (24%)	0 1
27	15	50/52 (96%)	48 (96%)	2 (4%)	31 57
27	25	50/52 (96%)	47 (94%)	3 (6%)	19 39
28	16	51/52 (98%)	48 (94%)	3 (6%)	19 39
28	26	50/52 (96%)	47 (94%)	3 (6%)	19 39
29	17	41/42 (98%)	37 (90%)	4 (10%)	8 15
29	27	41/42 (98%)	36 (88%)	5 (12%)	5 9
30	18	54/55 (98%)	50 (93%)	4 (7%)	13 28
30	28	54/55 (98%)	51 (94%)	3 (6%)	21 42
31	19	34/34 (100%)	33 (97%)	1 (3%)	42 68
31	29	34/34 (100%)	32 (94%)	2 (6%)	19 39
33	1b	192/220 (87%)	166 (86%)	26 (14%)	4 6
33	2b	187/220 (85%)	162 (87%)	25 (13%)	4 6
34	1c	142/188 (76%)	129 (91%)	13 (9%)	9 17
34	2c	140/188 (74%)	124 (89%)	16 (11%)	5 10
35	1d	169/181 (93%)	148 (88%)	21 (12%)	4 8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
35	2d	173/181 (96%)	162 (94%)	11 (6%)	17 35
36	1e	113/123 (92%)	102 (90%)	11 (10%)	8 15
36	2e	114/123 (93%)	98 (86%)	16 (14%)	3 6
37	1f	84/90 (93%)	80 (95%)	4 (5%)	25 49
37	2f	85/90 (94%)	78 (92%)	7 (8%)	11 22
38	1g	119/127 (94%)	106 (89%)	13 (11%)	6 11
38	2g	120/127 (94%)	112 (93%)	8 (7%)	16 33
39	1h	114/119 (96%)	109 (96%)	5 (4%)	28 53
39	2h	114/119 (96%)	103 (90%)	11 (10%)	8 16
40	1i	90/99 (91%)	81 (90%)	9 (10%)	7 14
40	2i	89/99 (90%)	72 (81%)	17 (19%)	1 2
41	1j	66/92 (72%)	56 (85%)	10 (15%)	3 4
41	2j	69/92 (75%)	61 (88%)	8 (12%)	5 10
42	1k	82/99 (83%)	71 (87%)	11 (13%)	4 6
42	2k	83/99 (84%)	77 (93%)	6 (7%)	14 29
43	1l	96/108 (89%)	88 (92%)	8 (8%)	11 22
43	2l	96/108 (89%)	90 (94%)	6 (6%)	18 36
44	1m	93/101 (92%)	85 (91%)	8 (9%)	10 20
44	2m	92/101 (91%)	82 (89%)	10 (11%)	6 11
45	1n	49/50 (98%)	44 (90%)	5 (10%)	7 14
45	2n	49/50 (98%)	46 (94%)	3 (6%)	18 38
46	1o	78/80 (98%)	76 (97%)	2 (3%)	46 72
46	2o	78/80 (98%)	75 (96%)	3 (4%)	33 59
47	1p	69/74 (93%)	61 (88%)	8 (12%)	5 10
47	2p	68/74 (92%)	61 (90%)	7 (10%)	7 13
48	1q	94/97 (97%)	91 (97%)	3 (3%)	39 65
48	2q	94/97 (97%)	92 (98%)	2 (2%)	53 77
49	1r	59/77 (77%)	55 (93%)	4 (7%)	16 32
49	2r	59/77 (77%)	53 (90%)	6 (10%)	7 14
50	1s	69/80 (86%)	64 (93%)	5 (7%)	14 29
50	2s	67/80 (84%)	63 (94%)	4 (6%)	19 39

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
51	1t	70/82 (85%)	66 (94%)	4 (6%)	20 41
51	2t	70/82 (85%)	64 (91%)	6 (9%)	10 20
52	1u	18/22 (82%)	18 (100%)	0	100 100
52	2u	18/22 (82%)	16 (89%)	2 (11%)	6 11
All	All	9303/10064 (92%)	8591 (92%)	712 (8%)	13 25

All (712) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	14	ARG
3	1D	140	THR
3	1D	155	LEU
3	1D	211	ARG
3	1D	229	VAL
3	1D	242	ARG
3	1D	260	ARG
3	1D	275	LYS
4	1E	47	VAL
4	1E	49	LEU
4	1E	89	ASP
4	1E	113	PHE
4	1E	116	VAL
4	1E	154	LYS
4	1E	181	LEU
4	1E	195	LEU
5	1F	24	LEU
5	1F	27	GLU
5	1F	33	LEU
5	1F	57	VAL
5	1F	60	SER
5	1F	70	THR
5	1F	74	ARG
5	1F	106	ARG
5	1F	140	LEU
5	1F	144	LYS
5	1F	168	ARG
5	1F	176	LEU
5	1F	183	VAL
5	1F	192	LEU
5	1F	201	VAL
6	1G	5	VAL

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Mol	Chain	Res	Type
6	1G	7	LEU
6	1G	31	VAL
6	1G	43	LEU
6	1G	66	GLN
6	1G	136	ARG
6	1G	139	LEU
6	1G	148	MET
6	1G	150	ASP
6	1G	159	VAL
6	1G	174	GLU
7	1H	2	SER
7	1H	23	ARG
7	1H	45	VAL
7	1H	56	SER
7	1H	57	ASP
7	1H	92	ILE
7	1H	95	ARG
7	1H	124	GLU
7	1H	136	ILE
8	1I	7	GLU
8	1I	10	GLU
8	1I	12	LEU
8	1I	20	ASP
8	1I	38	LEU
8	1I	40	THR
8	1I	47	LEU
8	1I	61	ARG
8	1I	77	LEU
8	1I	85	GLU
8	1I	87	LYS
8	1I	92	VAL
8	1I	101	LEU
8	1I	108	THR
8	1I	116	LEU
8	1I	129	THR
8	1I	133	HIS
8	1I	140	LEU
9	1N	1	MET
9	1N	38	HIS
9	1N	48	MET
9	1N	138	LEU
10	1O	28	SER

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Mol	Chain	Res	Type
10	1O	98	VAL
11	1P	15	ARG
11	1P	45	LEU
11	1P	75	ILE
11	1P	77	ARG
11	1P	95	VAL
11	1P	98	GLU
11	1P	101	VAL
11	1P	133	SER
11	1P	148	LEU
12	1Q	1	MET
12	1Q	7	MET
12	1Q	8	LYS
12	1Q	56	ARG
12	1Q	75	THR
12	1Q	89	ASN
12	1Q	109	VAL
12	1Q	110	THR
12	1Q	133	ARG
12	1Q	138	ASP
13	1R	15	SER
13	1R	17	ARG
13	1R	24	GLN
13	1R	36	THR
13	1R	67	LEU
14	1S	14	VAL
14	1S	25	ARG
14	1S	38	GLN
14	1S	46	VAL
14	1S	49	VAL
14	1S	56	LEU
14	1S	58	LEU
14	1S	73	LEU
14	1S	110	LEU
15	1T	28	VAL
15	1T	85	LYS
15	1T	96	ARG
15	1T	128	GLU
16	1U	31	SER
16	1U	74	LEU
16	1U	78	THR
17	1V	73	SER

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Mol	Chain	Res	Type
17	1V	79	VAL
18	1W	11	ARG
18	1W	17	VAL
20	1Y	1	MET
20	1Y	7	VAL
20	1Y	8	LYS
20	1Y	21	LYS
20	1Y	31	LEU
20	1Y	43	ASN
20	1Y	47	LYS
20	1Y	72	VAL
20	1Y	86	ARG
20	1Y	99	CYS
21	1Z	1	MET
21	1Z	31	ARG
21	1Z	33	LEU
21	1Z	49	ARG
21	1Z	53	ILE
21	1Z	72	ARG
21	1Z	84	GLU
21	1Z	87	ASP
21	1Z	132	ASN
21	1Z	136	PHE
21	1Z	140	ASP
21	1Z	154	ASP
21	1Z	170	THR
23	11	21	ARG
23	11	40	ARG
23	11	46	LEU
23	11	59	THR
23	11	78	LYS
23	11	85	LEU
24	12	38	GLN
24	12	40	SER
24	12	53	LEU
24	12	65	ASN
25	13	23	LEU
25	13	54	VAL
25	13	60	GLU
26	14	1	MET
26	14	33	VAL
26	14	49	PHE

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Mol	Chain	Res	Type
26	14	50	VAL
26	14	52	THR
26	14	56	VAL
26	14	61	ARG
26	14	63	TYR
26	14	66	SER
26	14	67	TYR
26	14	69	LYS
27	15	6	VAL
27	15	58	LEU
28	16	6	ARG
28	16	19	ARG
28	16	44	ARG
29	17	1	MET
29	17	24	THR
29	17	41	ARG
29	17	46	VAL
30	18	14	VAL
30	18	23	VAL
30	18	31	HIS
30	18	34	TRP
31	19	4	ARG
33	1b	11	LEU
33	1b	12	GLU
33	1b	21	ARG
33	1b	23	ARG
33	1b	24	TRP
33	1b	35	GLU
33	1b	39	ILE
33	1b	54	THR
33	1b	67	THR
33	1b	74	LYS
33	1b	112	VAL
33	1b	127	ILE
33	1b	133	LYS
33	1b	156	LYS
33	1b	160	ASP
33	1b	172	ILE
33	1b	178	ARG
33	1b	185	ILE
33	1b	196	LEU
33	1b	200	ILE

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Mol	Chain	Res	Type
33	1b	208	ILE
33	1b	210	SER
33	1b	212	GLN
33	1b	221	LEU
33	1b	233	SER
33	1b	236	TYR
34	1c	3	ASN
34	1c	15	THR
34	1c	29	TYR
34	1c	49	SER
34	1c	64	VAL
34	1c	66	VAL
34	1c	89	GLU
34	1c	112	SER
34	1c	115	LEU
34	1c	131	ARG
34	1c	190	ARG
34	1c	195	VAL
34	1c	196	LEU
35	1d	10	ARG
35	1d	17	VAL
35	1d	18	LYS
35	1d	19	LEU
35	1d	28	SER
35	1d	31	CYS
35	1d	53	ASP
35	1d	59	ARG
35	1d	76	ARG
35	1d	107	ARG
35	1d	112	VAL
35	1d	119	GLN
35	1d	134	ASP
35	1d	135	LEU
35	1d	140	VAL
35	1d	157	LEU
35	1d	158	ILE
35	1d	160	GLN
35	1d	175	SER
35	1d	190	ASP
35	1d	194	LEU
36	1e	10	MET
36	1e	31	LEU

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Mol	Chain	Res	Type
36	1e	41	VAL
36	1e	45	PHE
36	1e	51	VAL
36	1e	56	GLN
36	1e	64	ARG
36	1e	78	HIS
36	1e	79	GLU
36	1e	91	LEU
36	1e	98	THR
37	1f	45	LEU
37	1f	87	ARG
37	1f	92	LYS
37	1f	98	LEU
38	1g	12	LEU
38	1g	13	GLN
38	1g	20	ASP
38	1g	32	ARG
38	1g	50	ILE
38	1g	59	LEU
38	1g	61	VAL
38	1g	72	ARG
38	1g	94	ARG
38	1g	104	LEU
38	1g	113	GLU
38	1g	115	ARG
38	1g	131	LYS
39	1h	52	ASP
39	1h	112	LEU
39	1h	121	ASP
39	1h	122	ARG
39	1h	133	LEU
40	1i	23	ASN
40	1i	27	THR
40	1i	54	ASP
40	1i	64	THR
40	1i	86	VAL
40	1i	87	GLN
40	1i	92	TYR
40	1i	113	LYS
40	1i	128	ARG
41	1j	5	ARG
41	1j	17	ASP

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Mol	Chain	Res	Type
41	1j	21	GLN
41	1j	34	VAL
41	1j	43	ARG
41	1j	46	ARG
41	1j	49	VAL
41	1j	55	LYS
41	1j	81	THR
41	1j	84	GLN
42	1k	14	VAL
42	1k	31	THR
42	1k	40	ILE
42	1k	48	ILE
42	1k	84	VAL
42	1k	87	THR
42	1k	91	ARG
42	1k	104	GLN
42	1k	109	VAL
42	1k	114	VAL
42	1k	117	ASN
43	1l	18	VAL
43	1l	22	SER
43	1l	33	ARG
43	1l	42	THR
43	1l	62	SER
43	1l	78	GLN
43	1l	83	VAL
43	1l	124	LYS
44	1m	4	ILE
44	1m	12	ASN
44	1m	17	VAL
44	1m	19	LEU
44	1m	43	THR
44	1m	47	ASP
44	1m	109	THR
44	1m	122	LYS
45	1n	3	ARG
45	1n	13	THR
45	1n	15	LYS
45	1n	18	VAL
45	1n	35	ARG
46	1o	39	LEU
46	1o	62	GLN

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Mol	Chain	Res	Type
47	1p	11	SER
47	1p	27	LYS
47	1p	29	ASP
47	1p	61	SER
47	1p	62	VAL
47	1p	67	THR
47	1p	72	ARG
47	1p	75	ARG
48	1q	7	THR
48	1q	63	ARG
48	1q	78	GLU
49	1r	31	LEU
49	1r	46	GLU
49	1r	54	ARG
49	1r	68	LYS
50	1s	4	SER
50	1s	12	ASP
50	1s	28	LYS
50	1s	37	ARG
50	1s	41	VAL
51	1t	10	LEU
51	1t	24	LEU
51	1t	62	LEU
51	1t	100	ILE
3	2D	14	ARG
3	2D	88	ARG
3	2D	99	ASP
3	2D	122	ASP
3	2D	211	ARG
3	2D	242	ARG
3	2D	275	LYS
4	2E	38	THR
4	2E	59	VAL
4	2E	73	GLU
4	2E	90	THR
4	2E	116	VAL
4	2E	163	GLU
4	2E	181	LEU
5	2F	20	LEU
5	2F	23	ASP
5	2F	33	LEU
5	2F	57	VAL

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Mol	Chain	Res	Type
5	2F	70	THR
5	2F	107	LYS
5	2F	161	GLU
5	2F	165	ARG
5	2F	176	LEU
5	2F	192	LEU
5	2F	197	ASP
6	2G	20	ILE
6	2G	28	VAL
6	2G	43	LEU
6	2G	45	GLU
6	2G	51	ARG
6	2G	53	LEU
6	2G	70	VAL
6	2G	91	ARG
6	2G	124	SER
6	2G	126	ASP
6	2G	133	LEU
6	2G	139	LEU
6	2G	140	ILE
6	2G	149	VAL
6	2G	159	VAL
6	2G	165	THR
7	2H	16	SER
7	2H	23	ARG
7	2H	45	VAL
7	2H	57	ASP
7	2H	60	ARG
7	2H	92	ILE
7	2H	104	GLU
7	2H	119	GLU
7	2H	136	ILE
8	2I	20	ASP
8	2I	31	LEU
8	2I	38	LEU
8	2I	40	THR
8	2I	44	LEU
8	2I	61	ARG
8	2I	77	LEU
8	2I	82	ARG
8	2I	92	VAL
8	2I	108	THR

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Mol	Chain	Res	Type
8	2I	117	GLU
8	2I	121	LYS
8	2I	129	THR
8	2I	133	HIS
8	2I	142	VAL
9	2N	22	THR
9	2N	38	HIS
9	2N	58	ASP
9	2N	61	ARG
9	2N	62	VAL
9	2N	83	LYS
9	2N	138	LEU
10	2O	21	CYS
10	2O	29	ASN
10	2O	69	ILE
10	2O	82	ASN
10	2O	91	LEU
10	2O	116	SER
11	2P	15	ARG
11	2P	71	VAL
11	2P	98	GLU
11	2P	135	LEU
11	2P	148	LEU
12	2Q	1	MET
12	2Q	75	THR
12	2Q	110	THR
13	2R	36	THR
13	2R	40	LYS
13	2R	73	VAL
14	2S	15	ARG
14	2S	17	ARG
14	2S	25	ARG
14	2S	36	TYR
14	2S	58	LEU
14	2S	64	GLU
14	2S	80	LEU
14	2S	83	LYS
14	2S	110	LEU
15	2T	23	ARG
15	2T	40	THR
15	2T	66	VAL
15	2T	74	ARG

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Mol	Chain	Res	Type
15	2T	96	ARG
15	2T	102	ILE
15	2T	121	ILE
16	2U	5	LYS
16	2U	8	VAL
16	2U	55	ARG
16	2U	59	ARG
17	2V	7	THR
17	2V	28	GLU
17	2V	61	VAL
17	2V	79	VAL
18	2W	11	ARG
18	2W	17	VAL
19	2X	35	THR
19	2X	57	LEU
19	2X	81	VAL
19	2X	95	LEU
20	2Y	1	MET
20	2Y	40	GLU
20	2Y	43	ASN
20	2Y	50	ARG
20	2Y	72	VAL
20	2Y	99	CYS
20	2Y	107	ASP
21	2Z	24	LEU
21	2Z	32	HIS
21	2Z	33	LEU
21	2Z	36	LYS
21	2Z	40	ASP
21	2Z	72	ARG
21	2Z	91	LEU
21	2Z	100	VAL
21	2Z	121	HIS
21	2Z	123	ASP
21	2Z	128	VAL
21	2Z	129	SER
21	2Z	136	PHE
21	2Z	137	ILE
21	2Z	154	ASP
21	2Z	157	LEU
21	2Z	171	ILE
22	20	9	SER

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Mol	Chain	Res	Type
22	20	10	THR
22	20	11	ARG
23	21	35	THR
23	21	40	ARG
23	21	46	LEU
23	21	53	VAL
23	21	59	THR
23	21	80	LEU
24	22	4	SER
24	22	19	VAL
24	22	53	LEU
24	22	70	GLN
25	23	37	LEU
25	23	56	VAL
25	23	59	VAL
26	24	10	VAL
26	24	26	SER
26	24	33	VAL
26	24	34	GLU
26	24	37	SER
26	24	44	THR
26	24	50	VAL
26	24	56	VAL
26	24	59	PHE
26	24	62	ARG
26	24	63	TYR
26	24	67	TYR
26	24	68	ARG
27	25	6	VAL
27	25	40	LYS
27	25	59	GLU
28	26	6	ARG
28	26	13	CYS
28	26	19	ARG
29	27	1	MET
29	27	4	THR
29	27	23	ARG
29	27	41	ARG
29	27	48	LYS
30	28	14	VAL
30	28	23	VAL
30	28	31	HIS

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Mol	Chain	Res	Type
31	29	7	VAL
31	29	18	ARG
33	2b	7	VAL
33	2b	8	LYS
33	2b	9	GLU
33	2b	16	HIS
33	2b	19	HIS
33	2b	23	ARG
33	2b	24	TRP
33	2b	37	ASN
33	2b	55	PHE
33	2b	76	GLN
33	2b	90	MET
33	2b	94	ASN
33	2b	107	THR
33	2b	111	ARG
33	2b	117	GLU
33	2b	130	ARG
33	2b	158	LEU
33	2b	162	ILE
33	2b	163	PHE
33	2b	187	LEU
33	2b	189	ASP
33	2b	195	ASP
33	2b	204	ASN
33	2b	224	GLN
33	2b	230	VAL
34	2c	16	ARG
34	2c	29	TYR
34	2c	30	ARG
34	2c	43	LEU
34	2c	68	VAL
34	2c	69	HIS
34	2c	70	VAL
34	2c	103	VAL
34	2c	127	ARG
34	2c	132	ARG
34	2c	142	MET
34	2c	152	ILE
34	2c	161	GLU
34	2c	190	ARG
34	2c	191	THR

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Mol	Chain	Res	Type
34	2c	202	ILE
35	2d	8	VAL
35	2d	34	GLU
35	2d	49	ARG
35	2d	59	ARG
35	2d	107	ARG
35	2d	119	GLN
35	2d	127	THR
35	2d	150	GLU
35	2d	155	LEU
35	2d	162	LEU
35	2d	178	VAL
36	2e	6	PHE
36	2e	13	ILE
36	2e	18	ARG
36	2e	20	GLN
36	2e	24	ARG
36	2e	25	ARG
36	2e	41	VAL
36	2e	55	VAL
36	2e	68	GLU
36	2e	73	ASN
36	2e	78	HIS
36	2e	80	ILE
36	2e	83	GLU
36	2e	115	VAL
36	2e	147	ASP
36	2e	149	GLU
37	2f	17	SER
37	2f	37	VAL
37	2f	40	VAL
37	2f	63	TYR
37	2f	70	ASP
37	2f	87	ARG
37	2f	94	GLN
38	2g	4	ARG
38	2g	6	ARG
38	2g	24	THR
38	2g	78	ARG
38	2g	79	ARG
38	2g	85	TYR
38	2g	90	GLU

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Mol	Chain	Res	Type
38	2g	98	SER
39	2h	10	LEU
39	2h	22	GLU
39	2h	29	SER
39	2h	51	VAL
39	2h	56	LYS
39	2h	85	ARG
39	2h	109	ILE
39	2h	112	LEU
39	2h	120	THR
39	2h	122	ARG
39	2h	133	LEU
40	2i	50	LEU
40	2i	54	ASP
40	2i	56	LEU
40	2i	64	THR
40	2i	65	VAL
40	2i	75	ASP
40	2i	86	VAL
40	2i	89	ASN
40	2i	93	ARG
40	2i	96	LEU
40	2i	99	LEU
40	2i	102	LEU
40	2i	104	ARG
40	2i	108	VAL
40	2i	113	LYS
40	2i	114	TYR
40	2i	128	ARG
41	2j	8	LEU
41	2j	9	ARG
41	2j	13	HIS
41	2j	33	GLN
41	2j	38	ILE
41	2j	66	ARG
41	2j	67	THR
41	2j	89	ASP
42	2k	14	VAL
42	2k	53	SER
42	2k	81	ASP
42	2k	84	VAL
42	2k	87	THR

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Mol	Chain	Res	Type
42	2k	101	SER
43	2l	18	VAL
43	2l	42	THR
43	2l	66	VAL
43	2l	83	VAL
43	2l	86	ARG
43	2l	117	ARG
44	2m	16	ASP
44	2m	17	VAL
44	2m	19	LEU
44	2m	27	LYS
44	2m	32	GLU
44	2m	48	LEU
44	2m	62	ASN
44	2m	90	LEU
44	2m	102	ARG
44	2m	106	ASN
45	2n	3	ARG
45	2n	33	VAL
45	2n	57	ARG
46	2o	3	ILE
46	2o	7	GLU
46	2o	39	LEU
47	2p	1	MET
47	2p	2	VAL
47	2p	8	ARG
47	2p	20	VAL
47	2p	60	LEU
47	2p	73	LEU
47	2p	74	LEU
48	2q	60	ILE
48	2q	78	GLU
49	2r	25	THR
49	2r	30	ASP
49	2r	31	LEU
49	2r	37	VAL
49	2r	46	GLU
49	2r	68	LYS
50	2s	32	LYS
50	2s	37	ARG
50	2s	47	HIS
50	2s	56	GLN

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Mol	Chain	Res	Type
51	2t	9	ASN
51	2t	24	LEU
51	2t	33	ILE
51	2t	46	GLU
51	2t	93	GLU
51	2t	100	ILE
52	2u	6	ARG
52	2u	7	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (112) such sidechains are listed below:

Mol	Chain	Res	Type
4	1E	48	GLN
5	1F	8	GLN
5	1F	69	HIS
5	1F	203	GLN
6	1G	26	GLN
11	1P	81	GLN
12	1Q	12	GLN
12	1Q	57	HIS
12	1Q	123	HIS
13	1R	71	GLN
14	1S	68	GLN
15	1T	43	GLN
15	1T	58	ASN
19	1X	31	HIS
20	1Y	43	ASN
21	1Z	32	HIS
21	1Z	73	GLN
24	12	9	GLN
25	13	32	GLN
27	15	23	HIS
33	1b	40	HIS
33	1b	94	ASN
34	1c	6	HIS
34	1c	37	GLN
34	1c	98	ASN
34	1c	136	GLN
34	1c	162	GLN
35	1d	116	GLN
35	1d	123	HIS
35	1d	161	ASN

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Mol	Chain	Res	Type
37	1f	13	ASN
37	1f	73	ASN
37	1f	100	ASN
38	1g	13	GLN
38	1g	28	ASN
38	1g	86	GLN
40	1i	31	GLN
40	1i	89	ASN
40	1i	124	GLN
41	1j	56	HIS
44	1m	92	HIS
46	1o	9	GLN
46	1o	62	GLN
47	1p	14	ASN
49	1r	63	GLN
50	1s	23	ASN
50	1s	83	HIS
51	1t	42	GLN
51	1t	90	GLN
3	2D	87	ASN
3	2D	116	GLN
4	2E	48	GLN
5	2F	75	HIS
6	2G	132	ASN
8	2I	133	HIS
10	2O	3	GLN
10	2O	5	GLN
12	2Q	13	GLN
12	2Q	57	HIS
13	2R	13	HIS
14	2S	68	GLN
14	2S	95	HIS
15	2T	55	ASN
15	2T	79	HIS
16	2U	81	HIS
18	2W	60	ASN
19	2X	31	HIS
19	2X	82	GLN
20	2Y	6	HIS
20	2Y	43	ASN
21	2Z	34	ASN
21	2Z	55	HIS

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Mol	Chain	Res	Type
21	2Z	73	GLN
25	23	32	GLN
31	29	36	GLN
33	2b	40	HIS
33	2b	95	GLN
33	2b	135	GLN
33	2b	204	ASN
34	2c	6	HIS
34	2c	98	ASN
34	2c	102	ASN
34	2c	162	GLN
35	2d	116	GLN
35	2d	119	GLN
35	2d	201	GLN
36	2e	20	GLN
37	2f	100	ASN
38	2g	13	GLN
38	2g	28	ASN
38	2g	64	GLN
40	2i	3	GLN
40	2i	38	GLN
40	2i	58	HIS
40	2i	117	HIS
41	2j	33	GLN
41	2j	69	ASN
42	2k	38	ASN
42	2k	62	GLN
43	2l	99	HIS
44	2m	62	ASN
44	2m	77	ASN
46	2o	9	GLN
46	2o	62	GLN
47	2p	76	GLN
48	2q	26	GLN
49	2r	63	GLN
50	2s	23	ASN
50	2s	47	HIS
50	2s	69	HIS
50	2s	83	HIS
51	2t	75	ASN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2863/2915 (98%)	436 (15%)	24 (0%)
1	2A	2790/2915 (95%)	476 (17%)	25 (0%)
2	1B	119/121 (98%)	7 (5%)	0
2	2B	118/121 (97%)	27 (22%)	0
32	1a	1494/1521 (98%)	238 (15%)	0
32	2a	1498/1521 (98%)	270 (18%)	0
53	1v	12/24 (50%)	2 (16%)	0
53	2v	12/24 (50%)	1 (8%)	0
54	1w	71/76 (93%)	26 (36%)	0
54	1y	71/76 (93%)	29 (40%)	0
54	2w	68/76 (89%)	18 (26%)	0
54	2y	69/76 (90%)	19 (27%)	0
55	1x	74/77 (96%)	9 (12%)	0
55	2x	74/77 (96%)	10 (13%)	0
All	All	9333/9620 (97%)	1568 (16%)	49 (0%)

All (1568) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	10	G
1	1A	11	G
1	1A	12	U
1	1A	34	C
1	1A	45	C
1	1A	51	G
1	1A	71	A
1	1A	74	A
1	1A	75	G
1	1A	84	A
1	1A	95	G
1	1A	102	G
1	1A	118	A
1	1A	119	A
1	1A	120	U
1	1A	139	G
1	1A	173	G
1	1A	181	A
1	1A	196	A
1	1A	199	A
1	1A	205	G
1	1A	214	G
1	1A	215	G
1	1A	216	A

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Mol	Chain	Res	Type
1	1A	222	A
1	1A	228	A
1	1A	229	A
1	1A	233	A
1	1A	248	G
1	1A	261	G
1	1A	269	U
1	1A	271(K)	U
1	1A	271(L)	U
1	1A	271(M)	G
1	1A	271(N)	U
1	1A	271(O)	C
1	1A	271(P)	C
1	1A	271(S)	G
1	1A	272(A)	U
1	1A	272(B)	G
1	1A	272(G)	C
1	1A	275	G
1	1A	279	C
1	1A	311	A
1	1A	329	G
1	1A	330	A
1	1A	352	G
1	1A	357	A
1	1A	363	G
1	1A	363(B)	G
1	1A	380	U
1	1A	386	G
1	1A	396	G
1	1A	405	U
1	1A	411	G
1	1A	428	A
1	1A	443	A
1	1A	444	C
1	1A	448	U
1	1A	456	C
1	1A	457	A
1	1A	481	G
1	1A	504	U
1	1A	505	A
1	1A	509	C
1	1A	530	G

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Mol	Chain	Res	Type
1	1A	531	C
1	1A	532	A
1	1A	533	G
1	1A	545	G
1	1A	549	G
1	1A	551	G
1	1A	563	G
1	1A	573	G
1	1A	575	A
1	1A	586	A
1	1A	603	A
1	1A	604	G
1	1A	607	U
1	1A	614(B)	G
1	1A	615	G
1	1A	627	A
1	1A	637	A
1	1A	645	C
1	1A	646	A
1	1A	651	G
1	1A	652(A)	A
1	1A	652(F)	G
1	1A	652(T)	C
1	1A	669	G
1	1A	686	G
1	1A	717	G
1	1A	730	C
1	1A	740	U
1	1A	775	G
1	1A	776	G
1	1A	782	A
1	1A	784	A
1	1A	785	G
1	1A	789	A
1	1A	790	C
1	1A	792	G
1	1A	805	G
1	1A	812	C
1	1A	827	U
1	1A	828	U
1	1A	855	G
1	1A	859	G

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Mol	Chain	Res	Type
1	1A	866	A
1	1A	879	G
1	1A	880	G
1	1A	882	G
1	1A	883	G
1	1A	884	C
1	1A	885	C
1	1A	886	C
1	1A	887	A
1	1A	889	C
1	1A	890	A
1	1A	896	A
1	1A	897	C
1	1A	899	A
1	1A	907	U
1	1A	910	A
1	1A	932	G
1	1A	945	A
1	1A	946	G
1	1A	959	A
1	1A	961	C
1	1A	974	G
1	1A	975	C
1	1A	983	A
1	1A	996	A
1	1A	1012	U
1	1A	1013	C
1	1A	1022	G
1	1A	1026	U
1	1A	1027	A
1	1A	1033	U
1	1A	1038	C
1	1A	1041	C
1	1A	1044	G
1	1A	1045	A
1	1A	1046	A
1	1A	1047	G
1	1A	1054	A
1	1A	1055	G
1	1A	1057	A
1	1A	1058	G
1	1A	1059	G

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Mol	Chain	Res	Type
1	1A	1063	G
1	1A	1068	G
1	1A	1069	A
1	1A	1071	G
1	1A	1073	A
1	1A	1074	G
1	1A	1075	C
1	1A	1076	C
1	1A	1078	U
1	1A	1079	C
1	1A	1080	C
1	1A	1081	U
1	1A	1083	U
1	1A	1085	A
1	1A	1087	G
1	1A	1088	A
1	1A	1089	G
1	1A	1090	U
1	1A	1091	G
1	1A	1093	G
1	1A	1094	U
1	1A	1096	A
1	1A	1098	A
1	1A	1099	G
1	1A	1101	U
1	1A	1102	C
1	1A	1107	G
1	1A	1111	A
1	1A	1112	G
1	1A	1115	G
1	1A	1116	C
1	1A	1135	C
1	1A	1136	G
1	1A	1141	U
1	1A	1169	G
1	1A	1171	G
1	1A	1173	G
1	1A	1174	A
1	1A	1175	U
1	1A	1176	G
1	1A	1177	A
1	1A	1178	C

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Mol	Chain	Res	Type
1	1A	1218	C
1	1A	1247	A
1	1A	1253	A
1	1A	1256	G
1	1A	1271	G
1	1A	1272	A
1	1A	1286	A
1	1A	1300	U
1	1A	1301	A
1	1A	1303	G
1	1A	1320	C
1	1A	1352	U
1	1A	1359	A
1	1A	1360	A
1	1A	1365	A
1	1A	1384	A
1	1A	1385	G
1	1A	1416	G
1	1A	1417	C
1	1A	1420	U
1	1A	1421	G
1	1A	1428	C
1	1A	1445	A
1	1A	1450	G
1	1A	1455	G
1	1A	1467	C
1	1A	1482	G
1	1A	1493	C
1	1A	1494	A
1	1A	1509	C
1	1A	1509(A)	A
1	1A	1542	A
1	1A	1543	C
1	1A	1558	A
1	1A	1559	G
1	1A	1569	A
1	1A	1578	U
1	1A	1581	G
1	1A	1584	C
1	1A	1608	A
1	1A	1609	A
1	1A	1610	A

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Mol	Chain	Res	Type
1	1A	1634	A
1	1A	1648	C
1	1A	1658	C
1	1A	1664	A
1	1A	1674	G
1	1A	1696	G
1	1A	1700	A
1	1A	1701	A
1	1A	1703	G
1	1A	1722	A
1	1A	1739	U
1	1A	1746	G
1	1A	1756	G
1	1A	1763	G
1	1A	1764	G
1	1A	1769	G
1	1A	1773	A
1	1A	1780	A
1	1A	1782	C
1	1A	1786	A
1	1A	1791	A
1	1A	1800	C
1	1A	1801	G
1	1A	1816	G
1	1A	1817	G
1	1A	1829	A
1	1A	1847	A
1	1A	1877	A
1	1A	1878	G
1	1A	1889	A
1	1A	1900	A
1	1A	1906	G
1	1A	1919	A
1	1A	1929	G
1	1A	1930	G
1	1A	1937	A
1	1A	1938	A
1	1A	1955	U
1	1A	1963	U
1	1A	1965	C
1	1A	1967	C
1	1A	1970	A

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Mol	Chain	Res	Type
1	1A	1971	A
1	1A	1972	A
1	1A	1992	G
1	1A	1993	U
1	1A	1997	G
1	1A	2020	A
1	1A	2023	G
1	1A	2031	A
1	1A	2033	A
1	1A	2039	C
1	1A	2043	C
1	1A	2055	C
1	1A	2056	G
1	1A	2060	A
1	1A	2061	G
1	1A	2062	A
1	1A	2069	G
1	1A	2110	G
1	1A	2113	U
1	1A	2116	G
1	1A	2119	A
1	1A	2121	G
1	1A	2127	G
1	1A	2130	U
1	1A	2131	G
1	1A	2132	U
1	1A	2133	G
1	1A	2134	A
1	1A	2135	A
1	1A	2136	C
1	1A	2140	C
1	1A	2141	G
1	1A	2142	C
1	1A	2143	C
1	1A	2144	U
1	1A	2145	C
1	1A	2146	C
1	1A	2148	G
1	1A	2150	U
1	1A	2151	G
1	1A	2154	G
1	1A	2156	G

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Mol	Chain	Res	Type
1	1A	2157	G
1	1A	2158	A
1	1A	2159	G
1	1A	2163	C
1	1A	2165	G
1	1A	2166	G
1	1A	2168	G
1	1A	2171	A
1	1A	2172	U
1	1A	2173	A
1	1A	2174	C
1	1A	2181	G
1	1A	2182	G
1	1A	2184	G
1	1A	2190	G
1	1A	2192	G
1	1A	2198	A
1	1A	2206	G
1	1A	2207	G
1	1A	2208	A
1	1A	2219	G
1	1A	2225	A
1	1A	2238	G
1	1A	2239	G
1	1A	2268	A
1	1A	2269	A
1	1A	2280	G
1	1A	2283	C
1	1A	2286	A
1	1A	2287	A
1	1A	2305	A
1	1A	2307	G
1	1A	2308	G
1	1A	2320	A
1	1A	2325	G
1	1A	2334	G
1	1A	2336	A
1	1A	2347	C
1	1A	2350	C
1	1A	2354	G
1	1A	2361	A
1	1A	2383	G

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Mol	Chain	Res	Type
1	1A	2385	C
1	1A	2400	G
1	1A	2406	U
1	1A	2422	A
1	1A	2423	U
1	1A	2425	A
1	1A	2429	G
1	1A	2430	A
1	1A	2431	U
1	1A	2435	A
1	1A	2439	A
1	1A	2441	C
1	1A	2448	A
1	1A	2469	A
1	1A	2470	G
1	1A	2474	C
1	1A	2476	A
1	1A	2478	A
1	1A	2490	G
1	1A	2498	C
1	1A	2502	G
1	1A	2504	U
1	1A	2505	G
1	1A	2518	A
1	1A	2549	G
1	1A	2554	U
1	1A	2566	A
1	1A	2567	G
1	1A	2573	C
1	1A	2574	G
1	1A	2585	U
1	1A	2601	C
1	1A	2602	A
1	1A	2609	U
1	1A	2611	U
1	1A	2612	C
1	1A	2629	A
1	1A	2630	G
1	1A	2654	A
1	1A	2657	A
1	1A	2689	U
1	1A	2702	U

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Mol	Chain	Res	Type
1	1A	2703	C
1	1A	2712(A)	A
1	1A	2713	A
1	1A	2714	G
1	1A	2726	U
1	1A	2733	A
1	1A	2744	G
1	1A	2757	A
1	1A	2758	A
1	1A	2764	A
1	1A	2765	A
1	1A	2766	G
1	1A	2778	A
1	1A	2790	A
1	1A	2793	G
1	1A	2794	C
1	1A	2802	G
1	1A	2804	C
1	1A	2805	G
1	1A	2812	G
1	1A	2818	G
1	1A	2820	A
1	1A	2821	A
1	1A	2833	G
1	1A	2835	A
1	1A	2836	U
1	1A	2839	G
1	1A	2872	G
1	1A	2873	A
1	1A	2880	C
1	1A	2892	A
1	1A	2894	G
1	1A	2895	U
1	1A	2897	U
2	1B	2	C
2	1B	45	A
2	1B	56	G
2	1B	73	A
2	1B	85	G
2	1B	106	G
2	1B	110	G
32	1a	9	G

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Mol	Chain	Res	Type
32	1a	32	A
32	1a	39	G
32	1a	48	C
32	1a	50	A
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
32	1a	174	C
32	1a	182	U
32	1a	189	G
32	1a	189(J)	G
32	1a	195	A
32	1a	197	A
32	1a	203	U
32	1a	204	U
32	1a	222	U
32	1a	247	G
32	1a	251	G
32	1a	266	G
32	1a	267	C
32	1a	289	G
32	1a	301	G
32	1a	306	G
32	1a	321	A
32	1a	328	C
32	1a	332	G
32	1a	347	G
32	1a	351	G
32	1a	352	C
32	1a	353	A
32	1a	354	G
32	1a	367	U
32	1a	372	C

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Mol	Chain	Res	Type
32	1a	373	A
32	1a	384	G
32	1a	397	A
32	1a	398	C
32	1a	405	U
32	1a	406	G
32	1a	412	A
32	1a	413	G
32	1a	422	C
32	1a	424	G
32	1a	429	U
32	1a	441	A
32	1a	442	C
32	1a	452	A
32	1a	457	C
32	1a	458	C
32	1a	461	A
32	1a	470	C
32	1a	471	G
32	1a	482	A
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	521	G
32	1a	524	G
32	1a	527	G7M
32	1a	531	U
32	1a	532	A
32	1a	536	C
32	1a	547	A
32	1a	559	A
32	1a	561	U
32	1a	562	C
32	1a	568	G
32	1a	572	A
32	1a	573	A
32	1a	576	G

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Mol	Chain	Res	Type
32	1a	577	G
32	1a	630	G
32	1a	631	G
32	1a	653	A
32	1a	657	G
32	1a	665	A
32	1a	673	G
32	1a	687	A
32	1a	688	G
32	1a	693	G
32	1a	695	A
32	1a	702	A
32	1a	703	G
32	1a	723	U
32	1a	731	G
32	1a	749	C
32	1a	753	A
32	1a	755	G
32	1a	766	A
32	1a	777	A
32	1a	792	A
32	1a	793	U
32	1a	794	A
32	1a	815	A
32	1a	817	C
32	1a	821	G
32	1a	828	A
32	1a	840	C
32	1a	841	U
32	1a	851	G
32	1a	857	C
32	1a	870	U
32	1a	902	G
32	1a	914	A
32	1a	926	G
32	1a	927	G
32	1a	934	C
32	1a	935	A
32	1a	960	U
32	1a	961	U
32	1a	966	M2G
32	1a	968	A

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Mol	Chain	Res	Type
32	1a	969	A
32	1a	971	G
32	1a	974	A
32	1a	975	A
32	1a	976	G
32	1a	977	A
32	1a	992	U
32	1a	993	G
32	1a	996	A
32	1a	997	U
32	1a	999	C
32	1a	1000	U
32	1a	1001	A
32	1a	1003	G
32	1a	1005	A
32	1a	1006	C
32	1a	1009	G
32	1a	1010	G
32	1a	1013	G
32	1a	1020	U
32	1a	1022	G
32	1a	1023	G
32	1a	1025	U
32	1a	1026	G
32	1a	1027	C
32	1a	1028	C
32	1a	1029	C
32	1a	1030	C
32	1a	1030(A)	G
32	1a	1030(C)	G
32	1a	1031	G
32	1a	1034	G
32	1a	1037	C
32	1a	1039	C
32	1a	1044	A
32	1a	1063	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

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Mol	Chain	Res	Type
32	1a	1123	A
32	1a	1124	G
32	1a	1125	U
32	1a	1127	G
32	1a	1132	C
32	1a	1134	G
32	1a	1137	C
32	1a	1138	G
32	1a	1139	G
32	1a	1140	C
32	1a	1146	A
32	1a	1152	A
32	1a	1157	A
32	1a	1159	U
32	1a	1174	G
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	1214	C
32	1a	1222	G
32	1a	1227	A
32	1a	1233	G
32	1a	1236	A
32	1a	1238	A
32	1a	1240	U
32	1a	1250	A
32	1a	1256	A
32	1a	1257	U
32	1a	1258	G
32	1a	1270	C
32	1a	1273	G
32	1a	1278	U
32	1a	1279	A
32	1a	1280	A
32	1a	1286	A
32	1a	1287	A
32	1a	1299	A
32	1a	1300	G
32	1a	1302	U

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Mol	Chain	Res	Type
32	1a	1312	G
32	1a	1320	C
32	1a	1322	C
32	1a	1338	G
32	1a	1340	A
32	1a	1346	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1363(A)	A
32	1a	1370	G
32	1a	1394	A
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	1487	G
32	1a	1492	A
32	1a	1503	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	24	A
54	1w	2	C
54	1w	3	C
54	1w	6	G
54	1w	7	A
54	1w	8	4SU
54	1w	9	A
54	1w	14	A
54	1w	19	G
54	1w	20	U
54	1w	21	A
54	1w	23	A
54	1w	24	G
54	1w	25	C

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Mol	Chain	Res	Type
54	1w	34	G
54	1w	46	G7M
54	1w	47	U
54	1w	48	C
54	1w	62	C
54	1w	63	G
54	1w	64	A
54	1w	68	C
54	1w	69	G
54	1w	71	G
54	1w	73	A
54	1w	74	C
54	1w	76	A
55	1x	3	C
55	1x	9	G
55	1x	13	C
55	1x	14	A
55	1x	19	G
55	1x	20	U
55	1x	21	A
55	1x	47	U
55	1x	61	C
54	1y	6	G
54	1y	8	4SU
54	1y	13	C
54	1y	14	A
54	1y	19	G
54	1y	20	U
54	1y	21	A
54	1y	22	G
54	1y	23	A
54	1y	28	G
54	1y	34	G
54	1y	35	A
54	1y	44	G
54	1y	45	U
54	1y	46	G7M
54	1y	47	U
54	1y	48	C
54	1y	49	C
54	1y	50	U
54	1y	52	G

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Mol	Chain	Res	Type
54	1y	53	G
54	1y	54	5MU
54	1y	56	C
54	1y	58	A
54	1y	64	A
54	1y	65	G
54	1y	66	U
54	1y	70	G
54	1y	73	A
1	2A	8	A
1	2A	11	G
1	2A	12	U
1	2A	14	A
1	2A	15	G
1	2A	34	C
1	2A	35	G
1	2A	45	C
1	2A	51	G
1	2A	71	A
1	2A	72	U
1	2A	74	A
1	2A	75	G
1	2A	83	G
1	2A	84	A
1	2A	92	A
1	2A	100	G
1	2A	102	G
1	2A	118	A
1	2A	119	A
1	2A	120	U
1	2A	140	G
1	2A	141	A
1	2A	154(A)	C
1	2A	157	U
1	2A	181	A
1	2A	196	A
1	2A	199	A
1	2A	205	G
1	2A	214	G
1	2A	215	G
1	2A	216	A
1	2A	221	A

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Mol	Chain	Res	Type
1	2A	222	A
1	2A	228	A
1	2A	229	A
1	2A	233	A
1	2A	248	G
1	2A	250	G
1	2A	266	G
1	2A	271(J)	C
1	2A	271(K)	U
1	2A	271(L)	U
1	2A	271(M)	G
1	2A	271(N)	U
1	2A	271(P)	C
1	2A	272	G
1	2A	272(B)	G
1	2A	277	C
1	2A	278	A
1	2A	283	A
1	2A	302	C
1	2A	311	A
1	2A	327	G
1	2A	329	G
1	2A	330	A
1	2A	352	G
1	2A	354	G
1	2A	363(B)	G
1	2A	363(E)	U
1	2A	363(F)	A
1	2A	386	G
1	2A	396	G
1	2A	405	U
1	2A	406	G
1	2A	411	G
1	2A	412	A
1	2A	421	U
1	2A	443	A
1	2A	444	C
1	2A	454	A
1	2A	455	C
1	2A	456	C
1	2A	457	A
1	2A	481	G

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Mol	Chain	Res	Type
1	2A	501	A
1	2A	503	A
1	2A	505	A
1	2A	507	A
1	2A	508	G
1	2A	509	C
1	2A	521	G
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	563	G
1	2A	568	U
1	2A	573	G
1	2A	575	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	646	A
1	2A	651	G
1	2A	652	C
1	2A	652(A)	A
1	2A	652(B)	A
1	2A	652(C)	G
1	2A	652(D)	C
1	2A	653	A
1	2A	668	G
1	2A	669	G
1	2A	686	G
1	2A	717	G
1	2A	730	C
1	2A	752	A

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Mol	Chain	Res	Type
1	2A	753	C
1	2A	771	G
1	2A	775	G
1	2A	776	G
1	2A	782	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	832	G
1	2A	859	G
1	2A	874	G
1	2A	875	G
1	2A	878	A
1	2A	879	G
1	2A	880	G
1	2A	882	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	897	C
1	2A	900	A
1	2A	901	A
1	2A	903	C
1	2A	910	A
1	2A	917	A
1	2A	932	G
1	2A	938	G
1	2A	941	A
1	2A	945	A
1	2A	946	G
1	2A	953	A

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Mol	Chain	Res	Type
1	2A	959	A
1	2A	961	C
1	2A	974	G
1	2A	975	C
1	2A	980	A
1	2A	983	A
1	2A	996	A
1	2A	999	U
1	2A	1012	U
1	2A	1013	C
1	2A	1021	A
1	2A	1022	G
1	2A	1025	G
1	2A	1026	U
1	2A	1027	A
1	2A	1033	U
1	2A	1038	C
1	2A	1039	G
1	2A	1043	C
1	2A	1116	C
1	2A	1128	A
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G
1	2A	1170	G
1	2A	1171	G
1	2A	1195	G
1	2A	1205	U
1	2A	1206	G
1	2A	1210	A
1	2A	1211	U
1	2A	1220	A
1	2A	1236	G
1	2A	1244	G
1	2A	1252	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

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Mol	Chain	Res	Type
1	2A	1288	U
1	2A	1300	U
1	2A	1301	A
1	2A	1303	G
1	2A	1314	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	1380	G
1	2A	1384	A
1	2A	1385	G
1	2A	1416	G
1	2A	1417	C
1	2A	1420	U
1	2A	1421	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	1461	G
1	2A	1467	C
1	2A	1471	A
1	2A	1482	G
1	2A	1490	A
1	2A	1493	C
1	2A	1495	A
1	2A	1496	A
1	2A	1497	U
1	2A	1505	C
1	2A	1508	A
1	2A	1509	C
1	2A	1509(A)	A
1	2A	1531	C
1	2A	1547	C
1	2A	1554	A

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Mol	Chain	Res	Type
1	2A	1558	A
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1580	A
1	2A	1583	A
1	2A	1584	C
1	2A	1608	A
1	2A	1610	A
1	2A	1616	A
1	2A	1648	C
1	2A	1650	G
1	2A	1654	A
1	2A	1664	A
1	2A	1667	G
1	2A	1674	G
1	2A	1696	G
1	2A	1700	A
1	2A	1701	A
1	2A	1722	A
1	2A	1739	U
1	2A	1740	G
1	2A	1741	A
1	2A	1746	G
1	2A	1756	G
1	2A	1762	A
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1774	C
1	2A	1780	A
1	2A	1782	C
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1816	G
1	2A	1819	A
1	2A	1829	A
1	2A	1835	G
1	2A	1847	A
1	2A	1848	A
1	2A	1877	A

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Mol	Chain	Res	Type
1	2A	1878	G
1	2A	1896	G
1	2A	1900	A
1	2A	1906	G
1	2A	1914	C
1	2A	1929	G
1	2A	1930	G
1	2A	1936	A
1	2A	1938	A
1	2A	1955	U
1	2A	1963	U
1	2A	1967	C
1	2A	1970	A
1	2A	1971	A
1	2A	1972	A
1	2A	1984	G
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	2032	G
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	2070	G
1	2A	2096	U
1	2A	2099	U
1	2A	2104	G
1	2A	2111	C
1	2A	2113	U
1	2A	2116	G
1	2A	2117	A
1	2A	2119	A
1	2A	2122	U

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Mol	Chain	Res	Type
1	2A	2125	G
1	2A	2126	A
1	2A	2127	G
1	2A	2128	C
1	2A	2129	C
1	2A	2130	U
1	2A	2131	G
1	2A	2132	U
1	2A	2133	G
1	2A	2134	A
1	2A	2135	A
1	2A	2137	C
1	2A	2138	C
1	2A	2139	C
1	2A	2140	C
1	2A	2141	G
1	2A	2142	C
1	2A	2146	C
1	2A	2147	G
1	2A	2148	G
1	2A	2150	U
1	2A	2151	G
1	2A	2156	G
1	2A	2157	G
1	2A	2158	A
1	2A	2159	G
1	2A	2161	C
1	2A	2162	G
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2171	A
1	2A	2172	U
1	2A	2174	C
1	2A	2176	A
1	2A	2178	C
1	2A	2180	U
1	2A	2185	C
1	2A	2189	U
1	2A	2192	G
1	2A	2198	A
1	2A	2206	G

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Mol	Chain	Res	Type
1	2A	2207	G
1	2A	2208	A
1	2A	2225	A
1	2A	2238	G
1	2A	2239	G
1	2A	2268	A
1	2A	2275	C
1	2A	2278	A
1	2A	2280	G
1	2A	2283	C
1	2A	2287	A
1	2A	2305	A
1	2A	2308	G
1	2A	2312	U
1	2A	2319	G
1	2A	2320	A
1	2A	2325	G
1	2A	2327	A
1	2A	2334	G
1	2A	2336	A
1	2A	2347	C
1	2A	2350	C
1	2A	2354	G
1	2A	2383	G
1	2A	2385	C
1	2A	2396	G
1	2A	2406	U
1	2A	2414	G
1	2A	2425	A
1	2A	2429	G
1	2A	2430	A
1	2A	2434	A
1	2A	2435	A
1	2A	2439	A
1	2A	2441	C
1	2A	2448	A
1	2A	2469	A
1	2A	2476	A
1	2A	2478	A
1	2A	2484	G
1	2A	2491	U
1	2A	2492	U

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Mol	Chain	Res	Type
1	2A	2494	G
1	2A	2502	G
1	2A	2505	G
1	2A	2518	A
1	2A	2520	C
1	2A	2525	G
1	2A	2529	G
1	2A	2554	U
1	2A	2555	U
1	2A	2562	U
1	2A	2564	A
1	2A	2566	A
1	2A	2567	G
1	2A	2573	C
1	2A	2602	A
1	2A	2609	U
1	2A	2610	C
1	2A	2611	U
1	2A	2612	C
1	2A	2629	A
1	2A	2630	G
1	2A	2634	G
1	2A	2646	C
1	2A	2654	A
1	2A	2663	G
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	2718	G
1	2A	2726	U
1	2A	2733	A
1	2A	2739	U
1	2A	2751	G
1	2A	2758	A
1	2A	2760	C
1	2A	2761	G
1	2A	2764	A

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Mol	Chain	Res	Type
1	2A	2765	A
1	2A	2766	G
1	2A	2769	C
1	2A	2778	A
1	2A	2783	G
1	2A	2793	G
1	2A	2794	C
1	2A	2802	G
1	2A	2803	C
1	2A	2810	A
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	2876	G
1	2A	2880	C
1	2A	2892	A
1	2A	2894	G
1	2A	2896	C
1	2A	2897	U
2	2B	2	C
2	2B	8	U
2	2B	9	G
2	2B	12	C
2	2B	13	A
2	2B	17	C
2	2B	19	G
2	2B	20	C
2	2B	29	A
2	2B	34	U
2	2B	41	U
2	2B	42	C
2	2B	44	G
2	2B	53	A
2	2B	62	C
2	2B	63	G
2	2B	67	G
2	2B	73	A
2	2B	74	U

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Mol	Chain	Res	Type
2	2B	75	G
2	2B	85	G
2	2B	88	C
2	2B	91	C
2	2B	95	C
2	2B	108	U
2	2B	110	G
2	2B	120	A
32	2a	9	G
32	2a	15	G
32	2a	22	G
32	2a	32	A
32	2a	39	G
32	2a	47	C
32	2a	48	C
32	2a	50	A
32	2a	51	A
32	2a	52	G
32	2a	66	G
32	2a	73	G
32	2a	78	G
32	2a	80	G
32	2a	89	C
32	2a	101	A
32	2a	116	A
32	2a	121	C
32	2a	131	C
32	2a	156	G
32	2a	163	C
32	2a	182	U
32	2a	188	C
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	231	G
32	2a	247	G
32	2a	251	G
32	2a	258	G
32	2a	266	G

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Mol	Chain	Res	Type
32	2a	267	C
32	2a	289	G
32	2a	321	A
32	2a	328	C
32	2a	332	G
32	2a	345	C
32	2a	351	G
32	2a	352	C
32	2a	353	A
32	2a	354	G
32	2a	355	C
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
32	2a	412	A
32	2a	413	G
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	454	C
32	2a	457	C
32	2a	461	A
32	2a	470	C
32	2a	484	G
32	2a	485	G
32	2a	495	A
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	521	G

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Mol	Chain	Res	Type
32	2a	527	G7M
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	536	C
32	2a	545	C
32	2a	547	A
32	2a	559	A
32	2a	564	C
32	2a	568	G
32	2a	572	A
32	2a	573	A
32	2a	576	G
32	2a	577	G
32	2a	596	C
32	2a	607	A
32	2a	630	G
32	2a	631	G
32	2a	653	A
32	2a	657	G
32	2a	661	G
32	2a	665	A
32	2a	687	A
32	2a	688	G
32	2a	695	A
32	2a	721	G
32	2a	723	U
32	2a	731	G
32	2a	733	A
32	2a	749	C
32	2a	755	G
32	2a	774	G
32	2a	777	A
32	2a	792	A
32	2a	793	U
32	2a	794	A
32	2a	799	G
32	2a	816	A
32	2a	817	C
32	2a	819	A
32	2a	821	G
32	2a	827	U

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Mol	Chain	Res	Type
32	2a	828	A
32	2a	840	C
32	2a	841	U
32	2a	851	G
32	2a	859	A
32	2a	873	A
32	2a	874	G
32	2a	884	U
32	2a	902	G
32	2a	914	A
32	2a	926	G
32	2a	927	G
32	2a	934	C
32	2a	935	A
32	2a	936	C
32	2a	958	A
32	2a	960	U
32	2a	961	U
32	2a	966	M2G
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	992	U
32	2a	993	G
32	2a	996	A
32	2a	997	U
32	2a	999	C
32	2a	1002	G
32	2a	1003	G
32	2a	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1011	G
32	2a	1016	A
32	2a	1022	G
32	2a	1023	G
32	2a	1025	U

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Mol	Chain	Res	Type
32	2a	1026	G
32	2a	1027	C
32	2a	1029	C
32	2a	1030(D)	A
32	2a	1032	G
32	2a	1033	G
32	2a	1035	A
32	2a	1036	G
32	2a	1037	C
32	2a	1038	C
32	2a	1039	C
32	2a	1040	U
32	2a	1041	A
32	2a	1044	A
32	2a	1045	C
32	2a	1046	A
32	2a	1050	G
32	2a	1053	G
32	2a	1064	G
32	2a	1065	U
32	2a	1066	C
32	2a	1068	G
32	2a	1077	G
32	2a	1081	G
32	2a	1085	U
32	2a	1086	U
32	2a	1091	U
32	2a	1092	A
32	2a	1094	G
32	2a	1095	U
32	2a	1101	A
32	2a	1108	G
32	2a	1113	C
32	2a	1117	G
32	2a	1121	U
32	2a	1125	U
32	2a	1126	U
32	2a	1129	C
32	2a	1130	A
32	2a	1133	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	1141	C
32	2a	1146	A
32	2a	1147	C
32	2a	1152	A
32	2a	1155	G
32	2a	1157	A
32	2a	1158	C
32	2a	1159	U
32	2a	1160	G
32	2a	1172	C
32	2a	1181	G
32	2a	1182	G
32	2a	1184	G
32	2a	1196	U
32	2a	1197	G
32	2a	1201	A
32	2a	1202	G
32	2a	1211	U
32	2a	1213	A
32	2a	1227	A
32	2a	1236	A
32	2a	1238	A
32	2a	1256	A
32	2a	1257	U
32	2a	1260	C
32	2a	1270	C
32	2a	1273	G
32	2a	1276	G
32	2a	1279	A
32	2a	1280	A
32	2a	1287	A
32	2a	1299	A
32	2a	1302	U
32	2a	1303	C
32	2a	1305	G
32	2a	1311	G
32	2a	1319	A
32	2a	1320	C
32	2a	1340	A

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Mol	Chain	Res	Type
32	2a	1346	A
32	2a	1347	G
32	2a	1358	U
32	2a	1363	C
32	2a	1363(A)	A
32	2a	1368	G
32	2a	1394	A
32	2a	1397	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	1456	G
32	2a	1492	A
32	2a	1497	G
32	2a	1503	A
32	2a	1504	G
32	2a	1506	U
32	2a	1507	A
32	2a	1517	G
32	2a	1529	G
32	2a	1530	G
32	2a	1531	A
32	2a	1532	U
53	2v	24	A
54	2w	4	C
54	2w	6	G
54	2w	14	A
54	2w	19	G
54	2w	22	G
54	2w	31	A
54	2w	45	U
54	2w	46	G7M
54	2w	48	C
54	2w	58	A
54	2w	61	C
54	2w	64	A
54	2w	66	U
54	2w	68	C
54	2w	69	G

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Mol	Chain	Res	Type
54	2w	71	G
54	2w	73	A
54	2w	74	C
55	2x	3	C
55	2x	9	G
55	2x	18	G
55	2x	19	G
55	2x	22	G
55	2x	46	G
55	2x	47	U
55	2x	48	C
55	2x	61	C
55	2x	69	C
54	2y	7	A
54	2y	15	G
54	2y	19	G
54	2y	27	G
54	2y	43	C
54	2y	45	U
54	2y	47	U
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	59	U
54	2y	60	U
54	2y	65	G
54	2y	68	C
54	2y	69	G
54	2y	70	G

All (49) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1A	196	A
1	1A	266	G
1	1A	271(K)	U
1	1A	278	A
1	1A	548	A
1	1A	746	A

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Mol	Chain	Res	Type
1	1A	764	A
1	1A	974	G
1	1A	1067	A
1	1A	1174	A
1	1A	1176	G
1	1A	1420	U
1	1A	1508	A
1	1A	1608	A
1	1A	1663	C
1	1A	1992	G
1	1A	2134	A
1	1A	2181	G
1	1A	2183	C
1	1A	2406	U
1	1A	2422	A
1	1A	2430	A
1	1A	2629	A
1	1A	2756	U
1	2A	196	A
1	2A	228	A
1	2A	229	A
1	2A	266	G
1	2A	271(K)	U
1	2A	271(M)	G
1	2A	277	C
1	2A	528	A
1	2A	752	A
1	2A	827	U
1	2A	900	A
1	2A	1026	U
1	2A	1210	A
1	2A	1379	A
1	2A	1420	U
1	2A	1442	G
1	2A	1530	C
1	2A	1653	G
1	2A	1913	A
1	2A	1992	G
1	2A	2116	G
1	2A	2126	A
1	2A	2406	U
1	2A	2439	A

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Mol	Chain	Res	Type
1	2A	2689	U

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

86 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	$\#\|Z\| > 2$
32	M2G	1a	966	32	20,27,28	1.46	3 (15%)	22,40,43	0.99	3 (13%)
32	PSU	1a	516	56,32	18,21,22	1.39	2 (11%)	22,30,33	1.91	4 (18%)
54	PSU	2y	32	54	18,21,22	1.30	2 (11%)	22,30,33	1.81	3 (13%)
1	5MU	2A	1939	56,1	19,22,23	1.45	6 (31%)	28,32,35	2.18	6 (21%)
32	M2G	2a	966	32	20,27,28	1.40	3 (15%)	22,40,43	1.00	2 (9%)
54	PSU	1w	55	54	18,21,22	1.36	2 (11%)	22,30,33	1.89	3 (13%)
55	4SU	1x	8	55	18,21,22	2.33	5 (27%)	26,30,33	1.81	6 (23%)
43	0TD	2l	92	43	7,9,10	4.83	1 (14%)	6,11,13	2.32	3 (50%)
54	5MU	1y	54	54	19,22,23	1.48	5 (26%)	28,32,35	1.75	5 (17%)
1	PSU	2A	1917	56,1	18,21,22	1.30	2 (11%)	22,30,33	1.80	3 (13%)
1	5MC	2A	1942	1	18,22,23	0.97	2 (11%)	26,32,35	1.13	2 (7%)
32	2MG	1a	1207	56,32	18,26,27	0.96	1 (5%)	16,38,41	1.04	1 (6%)
32	MA6	1a	1519	32	19,26,27	0.84	0	18,38,41	1.61	2 (11%)
32	5MC	2a	1400	32	18,22,23	0.96	2 (11%)	26,32,35	1.23	3 (11%)
1	5MC	1A	1942	56,1	18,22,23	0.98	2 (11%)	26,32,35	1.25	2 (7%)
55	5MC	2x	32	55	18,22,23	0.97	2 (11%)	26,32,35	1.30	4 (15%)
1	PSU	2A	1911	1	18,21,22	1.34	2 (11%)	22,30,33	1.86	3 (13%)
54	4SU	1w	8	54	18,21,22	1.76	5 (27%)	26,30,33	1.92	4 (15%)
1	OMU	2A	2552	56,1	19,22,23	1.18	2 (10%)	26,31,34	1.66	5 (19%)
54	PSU	1y	55	54	18,21,22	1.33	2 (11%)	22,30,33	1.88	5 (22%)
1	OMG	1A	2251	56,55,1	18,26,27	0.97	1 (5%)	19,38,41	0.95	1 (5%)
32	MA6	2a	1519	32	19,26,27	0.82	0	18,38,41	1.43	2 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	5MU	1A	1915	1	19,22,23	1.41	5 (26%)	28,32,35	2.15	7 (25%)
54	PSU	2y	39	54	18,21,22	1.39	2 (11%)	22,30,33	1.57	3 (13%)
1	OMG	2A	2251	56,55,1	18,26,27	1.00	1 (5%)	19,38,41	1.13	2 (10%)
54	G7M	1w	46	54	20,26,27	1.25	2 (10%)	17,39,42	0.61	0
1	5MC	1A	1962	56,1	18,22,23	0.95	2 (11%)	26,32,35	1.14	4 (15%)
54	PSU	1w	39	54	18,21,22	1.37	2 (11%)	22,30,33	1.81	4 (18%)
54	4SU	2w	8	54	18,21,22	1.64	5 (27%)	26,30,33	2.04	5 (19%)
54	MIA	1w	37	54	24,31,32	2.20	3 (12%)	26,44,47	2.66	9 (34%)
43	0TD	1l	92	43	7,9,10	4.75	1 (14%)	6,11,13	1.79	3 (50%)
32	5MC	1a	1407	32	18,22,23	0.92	2 (11%)	26,32,35	1.16	2 (7%)
1	5MC	2A	1962	56,1	18,22,23	0.97	2 (11%)	26,32,35	1.20	2 (7%)
1	8AH	2A	2503	56,1	20,26,27	0.80	1 (5%)	23,39,42	2.04	5 (21%)
54	4SU	1y	8	54	18,21,22	1.75	5 (27%)	26,30,33	1.84	3 (11%)
1	PSU	1A	1917	1	18,21,22	1.32	2 (11%)	22,30,33	1.83	3 (13%)
55	31H	2x	76	56,55,57,1	28,34,35	1.09	3 (10%)	23,47,50	1.38	1 (4%)
55	5MU	2x	54	55	19,22,23	1.44	6 (31%)	28,32,35	1.92	6 (21%)
1	PSU	1A	1911	1	18,21,22	1.34	2 (11%)	22,30,33	1.83	3 (13%)
32	5MC	2a	1407	56,32	18,22,23	0.93	2 (11%)	26,32,35	1.16	3 (11%)
32	PSU	2a	516	32	18,21,22	1.32	2 (11%)	22,30,33	1.84	4 (18%)
54	MIA	1y	37	54	18,24,32	1.18	2 (11%)	18,35,47	1.22	2 (11%)
32	G7M	1a	527	56,32	20,26,27	1.19	2 (10%)	17,39,42	0.64	0
54	5MU	2y	54	54	19,22,23	1.45	5 (26%)	28,32,35	1.88	6 (21%)
54	MIA	2y	37	54	18,24,32	1.14	2 (11%)	18,35,47	1.20	2 (11%)
32	UR3	1a	1498	32	19,22,23	1.01	2 (10%)	26,32,35	1.52	3 (11%)
55	5MU	1x	54	56,55	19,22,23	1.49	6 (31%)	28,32,35	1.85	8 (28%)
32	4OC	1a	1402	32	20,23,24	0.78	0	26,32,35	0.94	1 (3%)
32	5MC	1a	1400	32	18,22,23	0.96	2 (11%)	26,32,35	1.09	2 (7%)
54	PSU	2w	32	54	18,21,22	1.35	2 (11%)	22,30,33	1.79	4 (18%)
1	OMC	2A	1920	1	19,22,23	0.83	0	26,31,34	0.89	0
54	G7M	1y	46	54	20,26,27	1.32	2 (10%)	17,39,42	0.54	0
54	5MU	1w	54	54	19,22,23	1.41	5 (26%)	28,32,35	1.84	6 (21%)
1	PSU	2A	2605	1	18,21,22	1.32	3 (16%)	22,30,33	1.96	5 (22%)
54	PSU	2w	55	54	18,21,22	1.39	2 (11%)	22,30,33	1.83	3 (13%)
55	5MC	1x	32	55	18,22,23	1.03	2 (11%)	26,32,35	1.19	3 (11%)
32	2MG	2a	1207	32	18,26,27	0.92	1 (5%)	16,38,41	1.08	2 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
54	PSU	2y	55	54	18,21,22	1.42	3 (16%)	22,30,33	1.81	4 (18%)
32	G7M	2a	527	56,32	20,26,27	1.22	2 (10%)	17,39,42	0.58	0
54	G7M	2y	46	54	20,26,27	1.34	2 (10%)	17,39,42	0.57	0
54	PSU	1w	32	56,54	18,21,22	1.31	2 (11%)	22,30,33	1.76	3 (13%)
32	5MC	1a	967	32	18,22,23	0.94	2 (11%)	26,32,35	1.15	2 (7%)
1	5MU	2A	1915	56,1	19,22,23	1.47	5 (26%)	28,32,35	2.07	6 (21%)
32	5MC	2a	967	32	18,22,23	0.96	2 (11%)	26,32,35	1.07	2 (7%)
32	4OC	2a	1402	32	20,23,24	0.76	0	26,32,35	0.89	1 (3%)
54	G7M	2w	46	54	20,26,27	1.24	1 (5%)	17,39,42	0.59	0
32	MA6	1a	1518	32	19,26,27	0.85	0	18,38,41	1.43	2 (11%)
32	UR3	2a	1498	32	19,22,23	1.04	1 (5%)	26,32,35	1.51	2 (7%)
1	8AH	1A	2503	56,1	20,26,27	0.79	1 (5%)	23,39,42	1.96	5 (21%)
1	PSU	1A	2605	56,1	18,21,22	1.38	3 (16%)	22,30,33	1.94	3 (13%)
1	5MU	1A	1939	56,1	19,22,23	1.43	6 (31%)	28,32,35	2.19	6 (21%)
54	PSU	2w	39	54	18,21,22	1.33	2 (11%)	22,30,33	1.92	3 (13%)
54	5MU	2w	54	54	19,22,23	1.39	5 (26%)	28,32,35	1.70	6 (21%)
55	4SU	2x	8	55	18,21,22	1.93	5 (27%)	26,30,33	1.27	4 (15%)
54	MIA	2w	37	54	20,27,32	1.63	3 (15%)	22,39,47	1.87	6 (27%)
55	PSU	1x	55	56,55	18,21,22	1.33	2 (11%)	22,30,33	1.90	4 (18%)
32	5MC	2a	1404	32	18,22,23	0.99	2 (11%)	26,32,35	1.12	2 (7%)
55	PSU	2x	55	55	18,21,22	1.32	2 (11%)	22,30,33	1.83	4 (18%)
54	4SU	2y	8	54	18,21,22	1.61	4 (22%)	26,30,33	2.19	5 (19%)
1	OMU	1A	2552	56,1	19,22,23	1.27	4 (21%)	26,31,34	1.72	5 (19%)
54	PSU	1y	32	54	18,21,22	1.32	2 (11%)	22,30,33	1.77	3 (13%)
54	PSU	1y	39	54	18,21,22	1.36	2 (11%)	22,30,33	1.71	3 (13%)
32	MA6	2a	1518	32	19,26,27	0.80	0	18,38,41	1.44	2 (11%)
1	OMC	1A	1920	1	19,22,23	0.84	0	26,31,34	0.94	1 (3%)
32	5MC	1a	1404	32	18,22,23	1.06	2 (11%)	26,32,35	1.26	3 (11%)
55	31H	1x	76	56,55	28,34,35	1.07	3 (10%)	23,47,50	1.52	3 (13%)

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
32	M2G	1a	966	32	-	0/7/29/30	0/3/3/3
32	PSU	1a	516	56,32	-	0/7/25/26	0/2/2/2
54	PSU	2y	32	54	-	0/7/25/26	0/2/2/2
1	5MU	2A	1939	56,1	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/7/29/30	0/3/3/3
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
43	0TD	2l	92	43	-	3/7/12/14	-
54	5MU	1y	54	54	-	2/7/25/26	0/2/2/2
1	PSU	2A	1917	56,1	-	1/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
32	2MG	1a	1207	56,32	-	2/5/27/28	0/3/3/3
32	MA6	1a	1519	32	-	3/7/29/30	0/3/3/3
32	5MC	2a	1400	32	-	2/7/25/26	0/2/2/2
1	5MC	1A	1942	56,1	-	0/7/25/26	0/2/2/2
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
1	OMU	2A	2552	56,1	-	0/9/27/28	0/2/2/2
54	PSU	1y	55	54	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	56,55,1	-	0/5/27/28	0/3/3/3
32	MA6	2a	1519	32	-	3/7/29/30	0/3/3/3
1	5MU	1A	1915	1	-	0/7/25/26	0/2/2/2
54	PSU	2y	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
54	G7M	1w	46	54	-	1/3/25/26	0/3/3/3
1	5MC	1A	1962	56,1	-	0/7/25/26	0/2/2/2
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
54	MIA	1w	37	54	-	1/11/33/34	0/3/3/3
43	0TD	1l	92	43	-	3/7/12/14	-
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	56,1	-	0/7/25/26	0/2/2/2
1	8AH	2A	2503	56,1	-	1/3/25/26	0/3/3/3
54	4SU	1y	8	54	-	3/7/25/26	0/2/2/2
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
55	31H	2x	76	56,55,57,1	-	6/18/40/41	0/3/3/3
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	56,32	-	0/7/25/26	0/2/2/2
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
54	MIA	1y	37	54	-	1/3/25/34	0/3/3/3
32	G7M	1a	527	56,32	-	3/3/25/26	0/3/3/3
54	5MU	2y	54	54	-	0/7/25/26	0/2/2/2
54	MIA	2y	37	54	-	0/3/25/34	0/3/3/3
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
55	5MU	1x	54	56,55	-	0/7/25/26	0/2/2/2
32	4OC	1a	1402	32	-	1/9/29/30	0/2/2/2
32	5MC	1a	1400	32	-	1/7/25/26	0/2/2/2
54	PSU	2w	32	54	-	0/7/25/26	0/2/2/2
1	OMC	2A	1920	1	-	0/9/27/28	0/2/2/2
54	G7M	1y	46	54	-	1/3/25/26	0/3/3/3
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
32	2MG	2a	1207	32	-	0/5/27/28	0/3/3/3
54	PSU	2y	55	54	-	3/7/25/26	0/2/2/2
32	G7M	2a	527	56,32	-	3/3/25/26	0/3/3/3
54	G7M	2y	46	54	-	0/3/25/26	0/3/3/3
54	PSU	1w	32	56,54	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	1/7/25/26	0/2/2/2
1	5MU	2A	1915	56,1	-	1/7/25/26	0/2/2/2
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2
32	4OC	2a	1402	32	-	0/9/29/30	0/2/2/2
54	G7M	2w	46	54	-	1/3/25/26	0/3/3/3
32	MA6	1a	1518	32	-	0/7/29/30	0/3/3/3
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
1	8AH	1A	2503	56,1	-	2/3/25/26	0/3/3/3
1	PSU	1A	2605	56,1	-	0/7/25/26	0/2/2/2
1	5MU	1A	1939	56,1	-	0/7/25/26	0/2/2/2
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
55	4SU	2x	8	55	-	0/7/25/26	0/2/2/2
54	MIA	2w	37	54	-	0/7/29/34	0/3/3/3
55	PSU	1x	55	56,55	-	0/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
54	4SU	2y	8	54	-	0/7/25/26	0/2/2/2
1	OMU	1A	2552	56,1	-	0/9/27/28	0/2/2/2
54	PSU	1y	32	54	-	0/7/25/26	0/2/2/2
54	PSU	1y	39	54	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	MA6	2a	1518	32	-	0/7/29/30	0/3/3/3
1	OMC	1A	1920	1	-	1/9/27/28	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
55	31H	1x	76	56,55	-	5/18/40/41	0/3/3/3

All (208) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.47	1.69	1.82
43	1l	92	0TD	CB-SB	-12.20	1.69	1.82
54	1w	37	MIA	C13-C14	7.07	1.52	1.32
54	1w	37	MIA	C2-S10	-6.87	1.69	1.75
55	1x	8	4SU	C4-N3	-6.12	1.31	1.37
54	2w	37	MIA	C2-S10	-5.70	1.70	1.75
32	1a	966	M2G	C2-N3	4.67	1.36	1.30
32	2a	966	M2G	C2-N3	4.41	1.36	1.30
55	2x	8	4SU	C4-N3	-4.41	1.32	1.37
54	1w	8	4SU	C4-S4	-4.37	1.60	1.68
55	1x	8	4SU	C4-S4	-4.33	1.60	1.68
55	1x	8	4SU	C2-N3	-4.23	1.30	1.38
54	1y	8	4SU	C4-S4	-4.23	1.60	1.68
54	2y	8	4SU	C4-S4	-4.14	1.60	1.68
54	2w	8	4SU	C4-S4	-4.09	1.60	1.68
54	2y	46	G7M	C5-C4	4.03	1.47	1.39
54	1y	46	G7M	C5-C4	4.02	1.47	1.39
54	2w	55	PSU	C6-C5	3.94	1.39	1.35
55	2x	8	4SU	C4-S4	-3.89	1.61	1.68
54	1w	55	PSU	C6-C5	3.82	1.39	1.35
54	1w	46	G7M	C5-C4	3.77	1.46	1.39
54	2w	46	G7M	C5-C4	3.76	1.46	1.39
54	1y	8	4SU	C4-N3	-3.68	1.33	1.37
54	1y	39	PSU	C6-C5	3.66	1.39	1.35
32	1a	527	G7M	C5-C4	3.58	1.46	1.39
32	2a	527	G7M	C5-C4	3.58	1.46	1.39
54	1y	32	PSU	C6-C5	3.54	1.39	1.35
54	1y	55	PSU	C6-C5	3.53	1.39	1.35
54	2w	32	PSU	C6-C5	3.52	1.39	1.35
32	1a	516	PSU	C6-C5	3.49	1.39	1.35
32	2a	516	PSU	C6-C5	3.48	1.39	1.35
55	2x	55	PSU	C6-C5	3.48	1.39	1.35
54	2w	39	PSU	C6-C5	3.46	1.39	1.35
54	2y	39	PSU	C6-C5	3.39	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	32	PSU	C6-C5	3.38	1.39	1.35
54	1w	8	4SU	C4-N3	-3.38	1.34	1.37
1	1A	1917	PSU	C6-C5	3.37	1.39	1.35
54	2y	32	PSU	C6-C5	3.36	1.39	1.35
1	1A	1911	PSU	C6-C5	3.32	1.39	1.35
55	2x	8	4SU	C2-N3	-3.27	1.32	1.38
1	2A	1917	PSU	C6-C5	3.26	1.39	1.35
55	1x	55	PSU	C6-C5	3.21	1.39	1.35
1	2A	1911	PSU	C6-C5	3.18	1.39	1.35
1	1A	2605	PSU	C6-C5	3.17	1.39	1.35
1	2A	2605	PSU	C6-C5	3.16	1.39	1.35
1	2A	1915	5MU	C6-C5	3.13	1.39	1.34
54	1w	39	PSU	C6-C5	3.11	1.38	1.35
54	2y	55	PSU	C6-C5	3.11	1.38	1.35
55	1x	32	5MC	C6-C5	3.08	1.39	1.34
32	2a	1404	5MC	C6-C5	3.05	1.39	1.34
55	1x	8	4SU	C5-C4	-3.03	1.38	1.42
54	2w	8	4SU	C4-N3	-3.01	1.34	1.37
1	2A	2251	OMG	C6-N1	-2.99	1.33	1.37
54	1y	54	5MU	C6-C5	2.97	1.39	1.34
55	2x	54	5MU	C6-C5	2.95	1.39	1.34
1	1A	1962	5MC	C6-C5	2.94	1.39	1.34
55	2x	8	4SU	C5-C4	-2.94	1.38	1.42
1	2A	1939	5MU	C4-N3	-2.92	1.33	1.38
54	2y	55	PSU	C4-N3	-2.89	1.33	1.38
54	2y	54	5MU	C6-C5	2.89	1.39	1.34
1	1A	2251	OMG	C6-N1	-2.88	1.33	1.37
32	1a	1404	5MC	C6-C5	2.88	1.39	1.34
1	2A	1942	5MC	C6-C5	2.87	1.39	1.34
54	1y	37	MIA	C5-C4	2.87	1.48	1.40
1	1A	1939	5MU	C6-C5	2.86	1.39	1.34
54	2y	39	PSU	C4-N3	-2.85	1.33	1.38
32	1a	1400	5MC	C6-C5	2.85	1.39	1.34
55	1x	76	31H	C6-C5	-2.84	1.32	1.43
54	1w	54	5MU	C4-N3	-2.83	1.33	1.38
55	1x	54	5MU	C4-N3	-2.82	1.33	1.38
32	1a	966	M2G	C2-N2	2.82	1.40	1.35
55	1x	54	5MU	C4-C5	2.80	1.49	1.44
55	1x	54	5MU	C6-C5	2.80	1.39	1.34
1	2A	1939	5MU	C6-C5	2.78	1.39	1.34
32	1a	967	5MC	C6-C5	2.76	1.39	1.34
32	1a	1407	5MC	C6-C5	2.76	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	1939	5MU	C4-N3	-2.76	1.33	1.38
54	1w	39	PSU	C4-N3	-2.76	1.33	1.38
54	1y	37	MIA	C2-N3	2.75	1.36	1.32
1	1A	1915	5MU	C6-C5	2.75	1.39	1.34
55	2x	76	31H	C5-C4	-2.75	1.33	1.40
1	1A	1942	5MC	C6-C5	2.74	1.39	1.34
54	1y	54	5MU	C4-N3	-2.74	1.33	1.38
54	2y	37	MIA	C5-C4	2.74	1.48	1.40
54	1w	54	5MU	C6-C5	2.73	1.39	1.34
32	2a	966	M2G	C2-N2	2.73	1.40	1.35
54	2y	37	MIA	C2-N3	2.71	1.36	1.32
54	2w	37	MIA	C5-C4	2.70	1.48	1.40
54	2y	54	5MU	C2-N1	2.68	1.42	1.38
1	1A	1911	PSU	C4-N3	-2.68	1.33	1.38
1	2A	1915	5MU	C4-N3	-2.68	1.33	1.38
32	2a	1407	5MC	C6-C5	2.67	1.39	1.34
32	2a	1400	5MC	C6-C5	2.66	1.39	1.34
55	2x	54	5MU	C4-N3	-2.66	1.33	1.38
1	1A	1915	5MU	C2-N1	2.66	1.42	1.38
55	2x	32	5MC	C6-C5	2.64	1.38	1.34
54	2w	54	5MU	C4-N3	-2.63	1.33	1.38
54	1y	54	5MU	C2-N1	2.62	1.42	1.38
54	2y	54	5MU	C4-N3	-2.62	1.34	1.38
32	2a	967	5MC	C6-C5	2.62	1.38	1.34
55	2x	54	5MU	C4-C5	2.60	1.49	1.44
32	1a	516	PSU	C4-N3	-2.60	1.34	1.38
1	1A	1915	5MU	C4-C5	2.60	1.49	1.44
1	1A	2605	PSU	C4-N3	-2.60	1.34	1.38
1	2A	1911	PSU	C4-N3	-2.60	1.34	1.38
54	1y	55	PSU	C4-N3	-2.59	1.34	1.38
55	2x	76	31H	C6-C5	-2.58	1.33	1.43
1	2A	2605	PSU	C4-N3	-2.57	1.34	1.38
54	1y	39	PSU	C4-N3	-2.57	1.34	1.38
55	1x	55	PSU	C4-N3	-2.55	1.34	1.38
55	2x	55	PSU	C4-N3	-2.55	1.34	1.38
54	2y	8	4SU	C4-N3	-2.55	1.34	1.37
1	1A	2552	OMU	C4-N3	-2.54	1.34	1.38
32	1a	966	M2G	C6-N1	-2.53	1.34	1.37
54	1w	37	MIA	C5-C4	2.52	1.47	1.40
1	2A	1962	5MC	C6-C5	2.51	1.38	1.34
54	2w	54	5MU	C6-C5	2.51	1.38	1.34
54	2y	46	G7M	C6-N1	-2.50	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	55	PSU	C4-N3	-2.47	1.34	1.38
1	2A	1915	5MU	C2-N1	2.46	1.42	1.38
1	1A	1942	5MC	C6-N1	-2.46	1.33	1.38
1	2A	2552	OMU	C4-N3	-2.46	1.34	1.38
54	1w	32	PSU	C4-N3	-2.45	1.34	1.38
54	2w	32	PSU	C4-N3	-2.44	1.34	1.38
54	1w	46	G7M	C6-N1	-2.44	1.34	1.37
32	2a	1207	2MG	C6-N1	-2.43	1.34	1.37
1	2A	1915	5MU	C4-C5	2.42	1.48	1.44
55	1x	8	4SU	O2-C2	2.42	1.27	1.23
54	1w	8	4SU	C5-C4	-2.41	1.39	1.42
54	2y	32	PSU	C4-N3	-2.39	1.34	1.38
54	2w	55	PSU	C4-N3	-2.39	1.34	1.38
55	2x	32	5MC	C6-N1	-2.39	1.34	1.38
32	1a	1207	2MG	C6-N1	-2.38	1.34	1.37
32	1a	1404	5MC	C6-N1	-2.38	1.34	1.38
1	2A	1962	5MC	C6-N1	-2.38	1.34	1.38
32	2a	1498	UR3	C2-N1	2.38	1.42	1.38
1	2A	1917	PSU	C4-N3	-2.38	1.34	1.38
1	1A	1917	PSU	C4-N3	-2.38	1.34	1.38
32	1a	527	G7M	C6-N1	-2.38	1.34	1.37
32	2a	527	G7M	C6-N1	-2.37	1.34	1.37
1	2A	2503	8AH	C5-C4	2.36	1.47	1.40
54	1w	8	4SU	C2-N1	2.35	1.42	1.38
1	2A	1939	5MU	C6-N1	-2.33	1.34	1.38
54	2w	54	5MU	C4-C5	2.33	1.48	1.44
54	1y	32	PSU	C4-N3	-2.33	1.34	1.38
1	1A	1939	5MU	C6-N1	-2.32	1.34	1.38
1	1A	1915	5MU	C4-N3	-2.32	1.34	1.38
1	1A	2552	OMU	C2-N3	-2.32	1.33	1.38
54	2w	39	PSU	C4-N3	-2.31	1.34	1.38
54	2y	8	4SU	C2-N1	2.30	1.42	1.38
32	2a	966	M2G	C6-N1	-2.30	1.34	1.37
32	2a	967	5MC	C6-N1	-2.30	1.34	1.38
54	1y	54	5MU	C4-C5	2.28	1.48	1.44
54	1y	8	4SU	C2-N3	-2.28	1.33	1.38
1	1A	1939	5MU	C4-C5	2.28	1.48	1.44
32	2a	516	PSU	C4-N3	-2.28	1.34	1.38
54	2w	37	MIA	C2-N3	2.27	1.37	1.34
1	2A	1939	5MU	C4-C5	2.27	1.48	1.44
1	2A	1942	5MC	C6-N1	-2.26	1.34	1.38
32	2a	1400	5MC	C6-N1	-2.25	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2y	55	PSU	C2-N3	-2.24	1.33	1.37
55	1x	76	31H	C5-C4	-2.24	1.35	1.40
54	2w	8	4SU	C2-N1	2.24	1.42	1.38
55	1x	76	31H	C5-N7	-2.24	1.31	1.39
55	1x	32	5MC	C6-N1	-2.23	1.34	1.38
54	1y	46	G7M	C6-N1	-2.22	1.34	1.37
1	2A	2552	OMU	C2-N3	-2.22	1.34	1.38
54	1w	8	4SU	C2-N3	-2.21	1.34	1.38
1	2A	1939	5MU	C2-N3	-2.21	1.34	1.38
1	1A	2552	OMU	C5-C4	-2.21	1.38	1.43
55	2x	76	31H	C5-N7	-2.21	1.31	1.39
54	1w	54	5MU	C4-C5	2.20	1.48	1.44
1	1A	1962	5MC	C6-N1	-2.20	1.34	1.38
54	1y	8	4SU	C5-C4	-2.19	1.39	1.42
54	2y	8	4SU	C5-C4	-2.19	1.39	1.42
54	2y	54	5MU	C2-N3	-2.19	1.34	1.38
1	1A	2503	8AH	C5-C4	2.18	1.46	1.40
1	1A	1939	5MU	C2-N3	-2.17	1.34	1.38
32	1a	1400	5MC	C6-N1	-2.16	1.34	1.38
1	2A	2605	PSU	C2-N3	-2.15	1.33	1.37
54	1y	54	5MU	C2-N3	-2.14	1.34	1.38
32	2a	1407	5MC	C6-N1	-2.14	1.34	1.38
54	2w	8	4SU	C5-C4	-2.14	1.39	1.42
55	1x	54	5MU	C6-N1	-2.13	1.34	1.38
32	1a	967	5MC	C6-N1	-2.13	1.34	1.38
54	2w	54	5MU	C2-N1	2.12	1.41	1.38
54	1w	54	5MU	C2-N3	-2.12	1.34	1.38
54	2y	54	5MU	C4-C5	2.12	1.48	1.44
55	2x	54	5MU	C2-N3	-2.11	1.34	1.38
1	2A	1939	5MU	C2-N1	2.11	1.41	1.38
32	1a	1498	UR3	C2-N1	2.09	1.41	1.38
32	2a	1404	5MC	C6-N1	-2.09	1.34	1.38
54	2w	54	5MU	C2-N3	-2.09	1.34	1.38
54	1y	8	4SU	C6-C5	2.08	1.39	1.35
32	1a	1498	UR3	C6-C5	2.08	1.39	1.35
55	1x	54	5MU	C2-N3	-2.08	1.34	1.38
55	2x	54	5MU	C2-N1	2.08	1.41	1.38
55	1x	54	5MU	C2-N1	2.07	1.41	1.38
54	1w	54	5MU	C2-N1	2.07	1.41	1.38
1	1A	2605	PSU	C2-N1	-2.07	1.33	1.36
1	2A	1915	5MU	C6-N1	-2.05	1.34	1.38
1	1A	1939	5MU	C2-N1	2.04	1.41	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	2552	OMU	C2-N1	2.04	1.41	1.38
1	1A	1915	5MU	C6-N1	-2.04	1.34	1.38
55	2x	8	4SU	C6-C5	2.03	1.39	1.35
32	1a	1407	5MC	C6-N1	-2.02	1.34	1.38
54	2w	8	4SU	C2-N3	-2.01	1.34	1.38
55	2x	54	5MU	C6-N1	-2.00	1.34	1.38

All (278) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	37	MIA	C12-C13-C14	-8.77	110.07	127.14
54	2y	8	4SU	C4-N3-C2	-6.66	120.87	127.34
1	2A	2503	8AH	C2-N3-C4	6.40	120.72	115.52
54	2w	8	4SU	C4-N3-C2	-6.33	121.19	127.34
1	2A	2605	PSU	N1-C2-N3	6.10	122.05	115.13
32	2a	1498	UR3	C4-N3-C2	-6.09	118.83	124.56
55	1x	55	PSU	N1-C2-N3	5.99	121.92	115.13
32	1a	1498	UR3	C4-N3-C2	-5.99	118.92	124.56
1	1A	2503	8AH	C2-N3-C4	5.98	120.38	115.52
54	1y	55	PSU	N1-C2-N3	5.96	121.88	115.13
32	1a	516	PSU	N1-C2-N3	5.92	121.84	115.13
54	2w	39	PSU	N1-C2-N3	5.87	121.78	115.13
1	2A	1911	PSU	N1-C2-N3	5.84	121.75	115.13
54	1w	39	PSU	N1-C2-N3	5.82	121.72	115.13
54	1w	55	PSU	N1-C2-N3	5.79	121.69	115.13
54	1w	8	4SU	C5-C4-N3	5.75	120.02	114.69
54	2w	55	PSU	N1-C2-N3	5.71	121.60	115.13
32	2a	516	PSU	N1-C2-N3	5.69	121.58	115.13
1	1A	2605	PSU	N1-C2-N3	5.63	121.51	115.13
1	1A	1911	PSU	N1-C2-N3	5.63	121.50	115.13
54	2y	32	PSU	N1-C2-N3	5.61	121.48	115.13
1	2A	1939	5MU	C4-N3-C2	-5.56	120.15	127.35
54	2y	55	PSU	N1-C2-N3	5.56	121.43	115.13
54	2y	8	4SU	C5-C4-N3	5.55	119.84	114.69
55	2x	55	PSU	N1-C2-N3	5.52	121.39	115.13
55	1x	76	31H	N3-C2-N1	-5.52	120.05	128.68
1	1A	1939	5MU	C4-N3-C2	-5.52	120.20	127.35
54	2w	32	PSU	N1-C2-N3	5.51	121.38	115.13
54	1w	8	4SU	C4-N3-C2	-5.48	122.02	127.34
54	1w	32	PSU	N1-C2-N3	5.47	121.32	115.13
1	1A	1917	PSU	N1-C2-N3	5.47	121.32	115.13
55	2x	76	31H	N3-C2-N1	-5.46	120.15	128.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	2w	8	4SU	C5-C4-N3	5.46	119.75	114.69
1	2A	1917	PSU	N1-C2-N3	5.44	121.29	115.13
54	1y	8	4SU	C4-N3-C2	-5.40	122.09	127.34
54	1y	39	PSU	N1-C2-N3	5.38	121.23	115.13
54	1y	32	PSU	N1-C2-N3	5.37	121.21	115.13
1	1A	1915	5MU	C4-N3-C2	-5.34	120.44	127.35
1	2A	1939	5MU	N3-C2-N1	5.21	121.81	114.89
1	2A	1915	5MU	C4-N3-C2	-5.13	120.71	127.35
54	1y	8	4SU	C5-C4-N3	5.10	119.42	114.69
54	2y	39	PSU	N1-C2-N3	5.01	120.80	115.13
1	2A	1915	5MU	N3-C2-N1	5.00	121.53	114.89
1	1A	1915	5MU	C5-C4-N3	4.95	119.53	115.31
1	1A	1939	5MU	N3-C2-N1	4.93	121.43	114.89
1	2A	1939	5MU	C5-C4-N3	4.90	119.49	115.31
32	1a	1519	MA6	N3-C2-N1	-4.88	121.05	128.68
1	1A	1939	5MU	C5-C4-N3	4.88	119.47	115.31
32	2a	1518	MA6	N3-C2-N1	-4.87	121.06	128.68
1	1A	1915	5MU	N3-C2-N1	4.83	121.30	114.89
1	1A	2503	8AH	C5-C6-N1	-4.82	117.84	121.01
1	2A	2503	8AH	C5-C6-N1	-4.82	117.84	121.01
32	2a	1519	MA6	N3-C2-N1	-4.74	121.26	128.68
32	1a	1518	MA6	N3-C2-N1	-4.73	121.29	128.68
1	1A	1939	5MU	C5-C6-N1	-4.70	118.50	123.34
55	2x	54	5MU	C4-N3-C2	-4.67	121.31	127.35
1	2A	1915	5MU	C5-C4-N3	4.65	119.28	115.31
54	2w	37	MIA	C2-N3-C4	4.57	121.62	115.32
55	1x	54	5MU	N3-C2-N1	4.55	120.93	114.89
55	2x	54	5MU	N3-C2-N1	4.54	120.92	114.89
54	1w	54	5MU	C4-N3-C2	-4.48	121.55	127.35
1	1A	2552	OMU	C4-N3-C2	-4.46	120.69	126.58
54	1w	54	5MU	N3-C2-N1	4.44	120.78	114.89
55	1x	8	4SU	S4-C4-N3	-4.42	115.86	120.21
1	2A	2605	PSU	C4-N3-C2	-4.41	119.99	126.34
1	2A	2552	OMU	C4-N3-C2	-4.38	120.80	126.58
55	1x	54	5MU	C4-N3-C2	-4.34	121.73	127.35
54	1w	37	MIA	C12-N6-C6	-4.34	116.12	122.55
54	2y	54	5MU	C4-N3-C2	-4.31	121.78	127.35
54	1w	37	MIA	C15-C14-C13	-4.26	110.33	122.65
1	2A	1939	5MU	C5-C6-N1	-4.26	118.96	123.34
1	2A	2552	OMU	N3-C2-N1	4.25	120.53	114.89
54	2y	54	5MU	N3-C2-N1	4.24	120.52	114.89
55	2x	54	5MU	C5-C4-N3	4.22	118.91	115.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	2y	8	4SU	N3-C2-N1	4.20	120.47	114.89
55	1x	8	4SU	C6-C5-C4	-4.19	116.32	119.95
1	1A	2552	OMU	N3-C2-N1	4.17	120.43	114.89
54	1y	54	5MU	N3-C2-N1	4.16	120.42	114.89
54	1w	54	5MU	C5-C4-N3	4.16	118.86	115.31
1	1A	2605	PSU	C4-N3-C2	-4.15	120.36	126.34
54	2y	54	5MU	C5-C4-N3	4.15	118.85	115.31
54	2w	37	MIA	C12-N6-C6	-4.12	119.33	122.87
1	1A	1939	5MU	O4-C4-C5	-4.11	120.14	124.90
55	2x	55	PSU	C4-N3-C2	-4.10	120.43	126.34
54	2w	39	PSU	C4-N3-C2	-4.04	120.52	126.34
54	2y	54	5MU	O4-C4-C5	-4.03	120.22	124.90
1	1A	1915	5MU	O4-C4-C5	-4.03	120.23	124.90
55	1x	8	4SU	O2-C2-N1	4.01	128.12	122.79
54	1y	55	PSU	C4-N3-C2	-3.99	120.59	126.34
32	1a	516	PSU	C4-N3-C2	-3.98	120.60	126.34
54	1w	37	MIA	C16-C14-C13	-3.97	111.18	122.65
54	2w	54	5MU	C5-C4-N3	3.97	118.70	115.31
54	1w	37	MIA	C2-N3-C4	3.96	120.78	115.32
54	1y	54	5MU	C4-N3-C2	-3.95	122.24	127.35
55	1x	55	PSU	C4-N3-C2	-3.95	120.65	126.34
32	1a	967	5MC	C5-C6-N1	-3.93	119.30	123.34
1	2A	1915	5MU	O4-C4-C5	-3.92	120.36	124.90
54	2w	8	4SU	N3-C2-N1	3.91	120.07	114.89
1	1A	1911	PSU	C4-N3-C2	-3.90	120.71	126.34
32	2a	516	PSU	C4-N3-C2	-3.89	120.73	126.34
32	2a	1404	5MC	C5-C6-N1	-3.89	119.34	123.34
1	2A	1917	PSU	C4-N3-C2	-3.88	120.75	126.34
55	2x	54	5MU	C5-C6-N1	-3.88	119.35	123.34
54	1w	55	PSU	C4-N3-C2	-3.84	120.80	126.34
55	2x	32	5MC	C5-C6-N1	-3.83	119.40	123.34
1	1A	1917	PSU	C4-N3-C2	-3.82	120.83	126.34
32	1a	1407	5MC	C5-C6-N1	-3.82	119.41	123.34
43	2l	92	0TD	CSB-SB-CB	-3.81	95.54	102.44
32	2a	1400	5MC	C5-C6-N1	-3.81	119.42	123.34
54	2w	54	5MU	C4-N3-C2	-3.79	122.45	127.35
54	2w	39	PSU	O2-C2-N1	-3.79	118.62	122.79
54	2y	55	PSU	C4-N3-C2	-3.78	120.89	126.34
1	1A	2605	PSU	O2-C2-N1	-3.78	118.63	122.79
1	2A	1939	5MU	O4-C4-C5	-3.78	120.53	124.90
1	2A	1911	PSU	O2-C2-N1	-3.77	118.64	122.79
54	1w	32	PSU	C4-N3-C2	-3.76	120.92	126.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1y	54	5MU	C5-C4-N3	3.75	118.51	115.31
1	2A	1962	5MC	C5-C6-N1	-3.74	119.50	123.34
54	1y	8	4SU	N3-C2-N1	3.73	119.84	114.89
1	2A	1911	PSU	C4-N3-C2	-3.72	120.97	126.34
32	1a	1404	5MC	C5-C6-N1	-3.69	119.54	123.34
55	1x	54	5MU	C5-C4-N3	3.69	118.46	115.31
54	2y	32	PSU	C4-N3-C2	-3.69	121.03	126.34
1	2A	1942	5MC	C5-C6-N1	-3.68	119.55	123.34
54	2w	32	PSU	C4-N3-C2	-3.68	121.04	126.34
54	2y	8	4SU	C5-C4-S4	-3.64	119.77	124.47
54	2w	54	5MU	N3-C2-N1	3.63	119.71	114.89
55	1x	32	5MC	C5-C6-N1	-3.63	119.60	123.34
54	1w	54	5MU	C5-C6-N1	-3.56	119.67	123.34
54	1w	39	PSU	C4-N3-C2	-3.53	121.25	126.34
1	1A	1917	PSU	O2-C2-N1	-3.53	118.91	122.79
32	1a	1519	MA6	C4-C5-N7	-3.53	105.72	109.40
1	2A	1915	5MU	C5-C6-N1	-3.53	119.71	123.34
1	2A	2552	OMU	C5-C4-N3	3.52	120.11	114.84
54	1y	54	5MU	O4-C4-C5	-3.52	120.83	124.90
54	1w	37	MIA	C5-C6-N1	-3.49	117.91	120.81
54	2y	54	5MU	C5-C6-N1	-3.49	119.75	123.34
1	1A	1942	5MC	C5-C6-N1	-3.48	119.76	123.34
55	1x	8	4SU	C5-C4-N3	3.46	117.90	114.69
54	2w	55	PSU	O2-C2-N1	-3.45	118.99	122.79
54	1y	32	PSU	C4-N3-C2	-3.45	121.37	126.34
54	1w	54	5MU	O4-C4-C5	-3.45	120.90	124.90
54	2w	37	MIA	C5-C6-N1	-3.45	117.95	120.81
54	1y	37	MIA	N3-C2-N1	-3.43	123.31	128.68
55	1x	54	5MU	C5-C6-N1	-3.42	119.82	123.34
54	2w	55	PSU	C4-N3-C2	-3.39	121.45	126.34
54	1y	39	PSU	C4-N3-C2	-3.39	121.46	126.34
1	1A	2552	OMU	C5-C4-N3	3.39	119.91	114.84
54	1y	32	PSU	O2-C2-N1	-3.35	119.10	122.79
55	1x	55	PSU	O2-C2-N1	-3.33	119.13	122.79
55	2x	54	5MU	O4-C4-C5	-3.31	121.06	124.90
1	2A	1917	PSU	O2-C2-N1	-3.31	119.14	122.79
54	2y	37	MIA	N3-C2-N1	-3.30	123.52	128.68
54	2y	32	PSU	O2-C2-N1	-3.30	119.16	122.79
32	2a	967	5MC	C5-C6-N1	-3.30	119.95	123.34
54	2w	54	5MU	O4-C4-C5	-3.26	121.12	124.90
54	1y	54	5MU	C5-C6-N1	-3.26	119.99	123.34
43	2l	92	0TD	OD2-CG-CB	3.24	120.16	113.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	39	PSU	O2-C2-N1	-3.24	119.23	122.79
1	1A	1915	5MU	C5-C6-N1	-3.24	120.01	123.34
54	1w	55	PSU	O2-C2-N1	-3.23	119.23	122.79
54	1w	8	4SU	N3-C2-N1	3.22	119.17	114.89
32	1a	516	PSU	O2-C2-N1	-3.22	119.25	122.79
1	1A	1962	5MC	C5-C6-N1	-3.20	120.05	123.34
32	1a	1400	5MC	C5-C6-N1	-3.12	120.13	123.34
32	1a	1404	5MC	C5-C4-N3	-3.11	118.32	121.67
1	1A	2552	OMU	O4-C4-C5	-3.06	119.78	125.16
54	2w	8	4SU	C5-C4-S4	-3.05	120.54	124.47
55	2x	8	4SU	C5-C4-N3	3.03	117.50	114.69
1	1A	1911	PSU	O2-C2-N1	-3.03	119.45	122.79
32	2a	1407	5MC	C5-C6-N1	-3.03	120.22	123.34
1	1A	1942	5MC	C5-C4-N3	-3.02	118.41	121.67
32	2a	1519	MA6	C4-C5-N7	-2.99	106.28	109.40
32	2a	516	PSU	O2-C2-N1	-2.99	119.50	122.79
55	1x	32	5MC	C5-C4-N3	-2.93	118.51	121.67
54	1w	8	4SU	C5-C4-S4	-2.92	120.70	124.47
1	1A	2503	8AH	C2-N1-C6	2.90	122.60	118.08
54	2w	54	5MU	C5-C6-N1	-2.89	120.36	123.34
32	2a	1518	MA6	C4-C5-N7	-2.88	106.39	109.40
43	1l	92	0TD	OD2-CG-CB	2.87	119.34	113.15
54	2y	39	PSU	C4-N3-C2	-2.85	122.22	126.34
54	1y	55	PSU	O2-C2-N1	-2.81	119.70	122.79
54	1w	37	MIA	C2-N1-C6	2.80	122.21	117.19
54	2w	32	PSU	O2-C2-N1	-2.79	119.72	122.79
32	1a	1400	5MC	C5-C4-N3	-2.79	118.66	121.67
1	2A	2503	8AH	C2-N1-C6	2.78	122.41	118.08
1	2A	2251	OMG	C5-C6-N1	2.74	118.79	113.95
54	1w	32	PSU	O2-C2-N1	-2.73	119.78	122.79
54	2w	37	MIA	C4-C5-N7	-2.72	106.57	109.40
32	2a	1407	5MC	C5-C4-N3	-2.70	118.76	121.67
1	2A	2503	8AH	C4-C5-N7	-2.68	106.75	109.47
54	1w	37	MIA	C4-C5-N7	-2.68	106.60	109.40
32	1a	1518	MA6	C4-C5-N7	-2.68	106.61	109.40
55	2x	8	4SU	C1'-N1-C2	2.68	122.42	117.57
55	2x	32	5MC	C5-C4-N3	-2.67	118.79	121.67
55	1x	54	5MU	C5M-C5-C4	2.66	121.70	118.77
55	2x	8	4SU	C6-C5-C4	-2.65	117.66	119.95
1	2A	2552	OMU	O4-C4-C5	-2.63	120.54	125.16
54	1y	39	PSU	O2-C2-N1	-2.62	119.90	122.79
1	2A	1942	5MC	C5-C4-N3	-2.62	118.85	121.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1915	5MU	C5M-C5-C4	2.61	121.64	118.77
32	1a	1207	2MG	C8-N7-C5	2.60	107.94	102.99
54	2w	54	5MU	C5M-C5-C4	2.58	121.60	118.77
1	1A	1939	5MU	O2-C2-N1	-2.57	119.38	122.79
54	2w	37	MIA	C2-N1-C6	2.56	121.77	117.19
1	1A	1962	5MC	C5-C4-N3	-2.56	118.92	121.67
55	1x	54	5MU	O4-C4-C5	-2.54	121.95	124.90
32	2a	1404	5MC	C5-C4-N3	-2.53	118.94	121.67
32	1a	1402	4OC	C6-C5-C4	2.53	120.05	116.96
54	2y	37	MIA	C4-C5-N7	-2.50	106.80	109.40
1	2A	1962	5MC	C5-C4-N3	-2.48	119.00	121.67
1	2A	2605	PSU	O2-C2-N1	-2.47	120.07	122.79
32	2a	1207	2MG	C8-N7-C5	2.44	107.64	102.99
55	1x	54	5MU	O2-C2-N1	-2.44	119.54	122.79
32	2a	1400	5MC	O2-C2-N3	-2.41	118.42	122.33
1	2A	1939	5MU	O2-C2-N1	-2.40	119.60	122.79
55	2x	32	5MC	O2-C2-N3	-2.38	118.47	122.33
43	2l	92	0TD	OD1-CG-CB	-2.38	117.47	122.44
1	1A	2251	OMG	C8-N7-C5	2.37	107.51	102.99
54	2y	55	PSU	C6-C5-C4	-2.36	116.55	118.20
32	1a	1498	UR3	C6-N1-C2	-2.36	119.68	121.79
55	1x	76	31H	C3'-N3'-C	-2.36	119.66	123.21
32	2a	1407	5MC	O2-C2-N3	-2.34	118.52	122.33
32	1a	966	M2G	C5-C6-N1	2.34	118.08	113.95
32	1a	967	5MC	C5-C4-N3	-2.32	119.17	121.67
55	2x	8	4SU	O2-C2-N1	2.32	125.87	122.79
32	1a	1498	UR3	C3U-N3-C4	2.30	121.17	117.89
32	1a	1407	5MC	C5-C4-N3	-2.29	119.20	121.67
55	2x	55	PSU	O2-C2-N1	-2.29	120.27	122.79
32	2a	966	M2G	C8-N7-C5	2.28	107.34	102.99
1	2A	2251	OMG	C8-N7-C5	2.28	107.34	102.99
55	2x	54	5MU	O2-C2-N1	-2.27	119.77	122.79
55	1x	8	4SU	O2-C2-N3	-2.27	117.27	121.50
32	1a	1404	5MC	O2-C2-N3	-2.26	118.66	122.33
32	2a	1207	2MG	C5-C6-N1	2.25	117.92	113.95
32	1a	966	M2G	C8-N7-C5	2.24	107.25	102.99
54	1y	37	MIA	C4-C5-N7	-2.23	107.07	109.40
1	2A	1915	5MU	O2-C2-N1	-2.23	119.82	122.79
32	2a	967	5MC	C5-C4-N3	-2.23	119.27	121.67
32	1a	516	PSU	O4'-C1'-C2'	2.23	108.28	105.14
54	2y	8	4SU	O2-C2-N1	-2.22	119.83	122.79
32	2a	966	M2G	C5-C6-N1	2.22	117.87	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1920	OMC	O2-C2-N3	-2.21	118.73	122.33
54	1w	37	MIA	N3-C2-N1	-2.21	122.92	126.98
54	2w	37	MIA	N3-C2-N1	-2.21	122.92	126.98
55	1x	32	5MC	O2-C2-N3	-2.20	118.75	122.33
55	1x	54	5MU	C5M-C5-C6	-2.20	119.91	122.85
32	2a	1400	5MC	C5-C4-N3	-2.17	119.33	121.67
1	1A	1962	5MC	CM5-C5-C6	-2.17	119.96	122.85
1	1A	2503	8AH	N6-C6-N1	2.16	122.95	117.07
1	2A	2503	8AH	C8-N9-C1'	2.16	127.23	125.50
1	1A	1962	5MC	O2-C2-N3	-2.15	118.83	122.33
32	2a	1402	4OC	C6-C5-C4	2.14	119.58	116.96
54	1w	54	5MU	O2-C2-N1	-2.14	119.95	122.79
54	2y	55	PSU	O2-C2-N1	-2.12	120.45	122.79
1	1A	2552	OMU	C1'-N1-C2	2.12	121.41	117.57
54	2y	39	PSU	O2-C2-N1	-2.12	120.46	122.79
1	2A	2605	PSU	C5-C6-N1	-2.12	118.93	122.11
54	2w	32	PSU	C6-C5-C4	-2.10	116.73	118.20
32	2a	1498	UR3	C1'-N1-C2	2.10	120.53	116.99
1	2A	2552	OMU	O2-C2-N1	-2.10	120.00	122.79
1	1A	1915	5MU	O2-C2-N1	-2.09	120.00	122.79
1	2A	2605	PSU	O2-C2-N3	-2.09	117.88	121.82
55	2x	32	5MC	C1'-N1-C6	-2.08	117.66	121.12
55	2x	55	PSU	C5-C6-N1	-2.08	118.99	122.11
54	1y	55	PSU	O4'-C1'-C2'	2.07	108.07	105.14
54	1y	55	PSU	C5-C6-N1	-2.06	119.02	122.11
43	1l	92	0TD	OD1-CG-CB	-2.06	118.13	122.44
1	1A	2503	8AH	C4-C5-N7	-2.05	107.39	109.47
32	1a	966	M2G	O6-C6-C5	-2.05	120.36	124.37
32	2a	516	PSU	O4'-C1'-C2'	2.04	108.02	105.14
54	2w	8	4SU	C1'-N1-C2	2.03	121.25	117.57
43	1l	92	0TD	CSB-SB-CB	-2.03	98.78	102.44
54	2y	54	5MU	C1'-N1-C2	2.02	121.22	117.57
54	1w	39	PSU	C5-C6-N1	-2.01	119.09	122.11
55	1x	76	31H	C4-C5-N7	-2.01	107.30	109.40
55	1x	55	PSU	C5-C6-N1	-2.01	119.09	122.11
55	1x	8	4SU	C4-N3-C2	2.00	129.29	127.34

There are no chirality outliers.

All (55) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	1207	2MG	N1-C2-N2-CM2

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Mol	Chain	Res	Type	Atoms
32	1a	1207	2MG	N3-C2-N2-CM2
43	1l	92	0TD	CG-CB-SB-CSB
54	1w	37	MIA	C12-C13-C14-C16
55	1x	76	31H	C3'-C4'-C5'-O5'
55	1x	76	31H	CB-CA-N-CN
54	1y	8	4SU	O4'-C4'-C5'-O5'
54	1y	46	G7M	C4'-C5'-O5'-P
32	2a	527	G7M	C3'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'
43	2l	92	0TD	CG-CB-SB-CSB
55	2x	76	31H	C3'-C4'-C5'-O5'
54	2y	55	PSU	C2'-C1'-C5-C6
54	2y	55	PSU	C3'-C4'-C5'-O5'
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
54	2y	55	PSU	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
55	1x	76	31H	O4'-C4'-C5'-O5'
54	1y	8	4SU	C3'-C4'-C5'-O5'
54	1y	54	5MU	O4'-C4'-C5'-O5'
55	2x	76	31H	O4'-C4'-C5'-O5'
55	1x	76	31H	CB-CG-SD-CE
55	2x	76	31H	C4'-C5'-O5'-P
32	1a	527	G7M	C3'-C4'-C5'-O5'
55	2x	76	31H	CB-CG-SD-CE
54	1w	46	G7M	C4'-C5'-O5'-P
55	1x	76	31H	C4'-C5'-O5'-P
32	2a	527	G7M	O4'-C4'-C5'-O5'
55	2x	76	31H	N-CA-CB-CG
54	1y	37	MIA	C3'-C4'-C5'-O5'
55	2x	76	31H	C-CA-CB-CG
54	2w	46	G7M	C4'-C5'-O5'-P
54	1y	54	5MU	C3'-C4'-C5'-O5'
32	1a	527	G7M	C4'-C5'-O5'-P
32	2a	527	G7M	C4'-C5'-O5'-P
32	1a	967	5MC	O4'-C4'-C5'-O5'
32	1a	1402	4OC	O4'-C4'-C5'-O5'
1	2A	1915	5MU	O4'-C4'-C5'-O5'
1	2A	1917	PSU	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C4'-C5'-O5'-P
32	1a	527	G7M	O4'-C4'-C5'-O5'
43	1l	92	0TD	CA-CB-SB-CSB

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Mol	Chain	Res	Type	Atoms
43	2l	92	0TD	CA-CB-SB-CSB
32	1a	1400	5MC	O4'-C4'-C5'-O5'
32	2a	1400	5MC	O4'-C4'-C5'-O5'
54	1y	8	4SU	C4'-C5'-O5'-P
1	1A	1920	OMC	C2'-C1'-N1-C2
1	1A	2503	8AH	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C4'-C5'-O5'-P
1	1A	2503	8AH	C4'-C5'-O5'-P
32	2a	1400	5MC	C3'-C4'-C5'-O5'
1	2A	2503	8AH	O4'-C4'-C5'-O5'
43	1l	92	0TD	SB-CB-CG-OD1
43	2l	92	0TD	SB-CB-CG-OD1

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 2763 ligands modelled in this entry, 2759 are monoatomic - leaving 4 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	$\#\|Z\| > 2$
60	SF4	2d	303	35	0,12,12	-	-	-		
58	WC9	2A	3846	-	34,37,37	1.29	3 (8%)	35,53,53	1.58	4 (11%)
60	SF4	1d	302	35	0,12,12	-	-	-		
58	WC9	1A	4098	1	34,37,37	1.63	6 (17%)	35,53,53	1.50	4 (11%)

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	303	35	-	-	0/6/5/5
58	WC9	2A	3846	-	-	0/28/71/71	0/3/4/4
60	SF4	1d	302	35	-	-	0/6/5/5
58	WC9	1A	4098	1	-	2/28/71/71	0/3/4/4

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	1A	4098	WC9	OAW-CB	4.59	1.47	1.42
58	1A	4098	WC9	CAM-CBF	-4.40	1.39	1.51
58	2A	3846	WC9	CAM-CBF	-4.12	1.40	1.51
58	1A	4098	WC9	OAW-CAX	3.22	1.48	1.43
58	2A	3846	WC9	OAW-CB	3.00	1.45	1.42
58	1A	4098	WC9	CD2-CAZ	-2.50	1.51	1.53
58	1A	4098	WC9	CAK-NAL	2.34	1.49	1.45
58	2A	3846	WC9	CB-CA	-2.14	1.50	1.53
58	1A	4098	WC9	CBF-CBH	2.01	1.40	1.31

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
58	2A	3846	WC9	CBC-CBB-CAZ	-6.35	110.61	116.03
58	1A	4098	WC9	CBC-CBB-CAZ	-5.86	111.02	116.03
58	2A	3846	WC9	CD1-CG-CB	-4.79	97.88	103.80
58	1A	4098	WC9	CD1-CG-CB	-3.90	98.97	103.80
58	1A	4098	WC9	CD2-CAZ-CAY	-2.65	109.91	113.89
58	2A	3846	WC9	CAF-OAA-CAB	-2.34	110.94	114.12
58	1A	4098	WC9	OAA-CAF-CAE	-2.10	107.68	110.31
58	2A	3846	WC9	CD2-CAZ-CAY	-2.06	110.80	113.89

There are no chirality outliers.

All (2) torsion outliers are listed below:

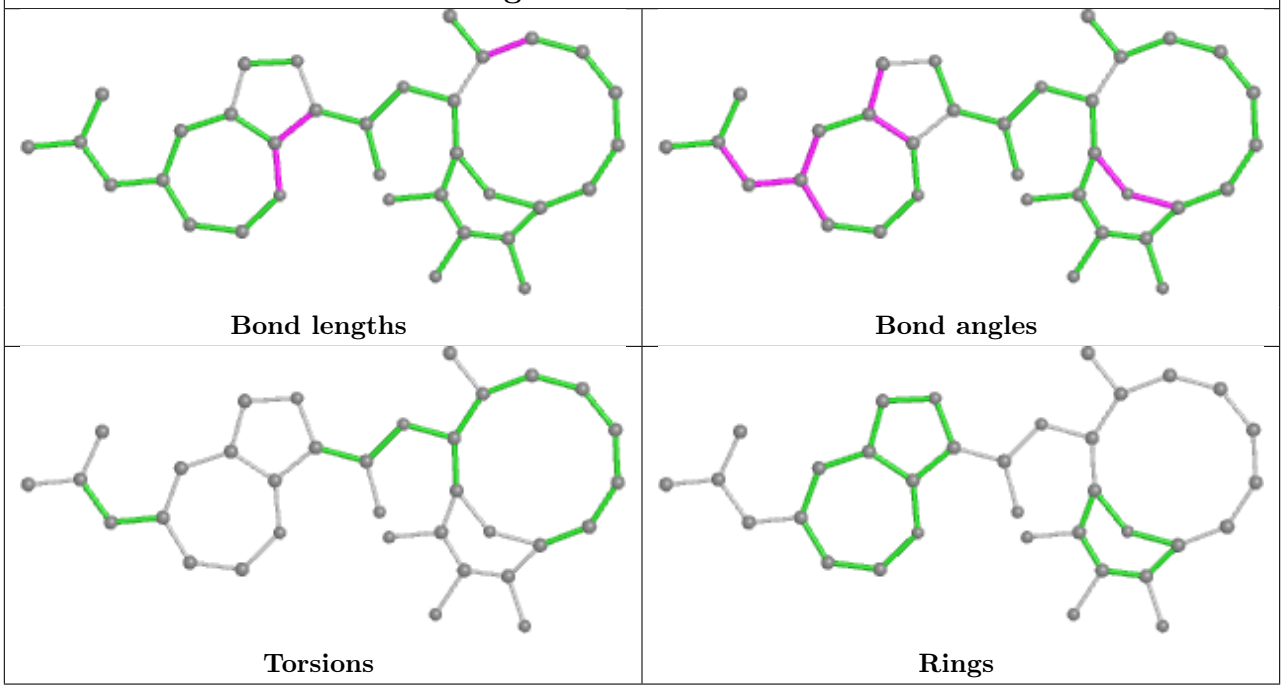
Mol	Chain	Res	Type	Atoms
58	1A	4098	WC9	CAM-CAK-NAL-C
58	1A	4098	WC9	CAB-CAK-NAL-C

There are no ring outliers.

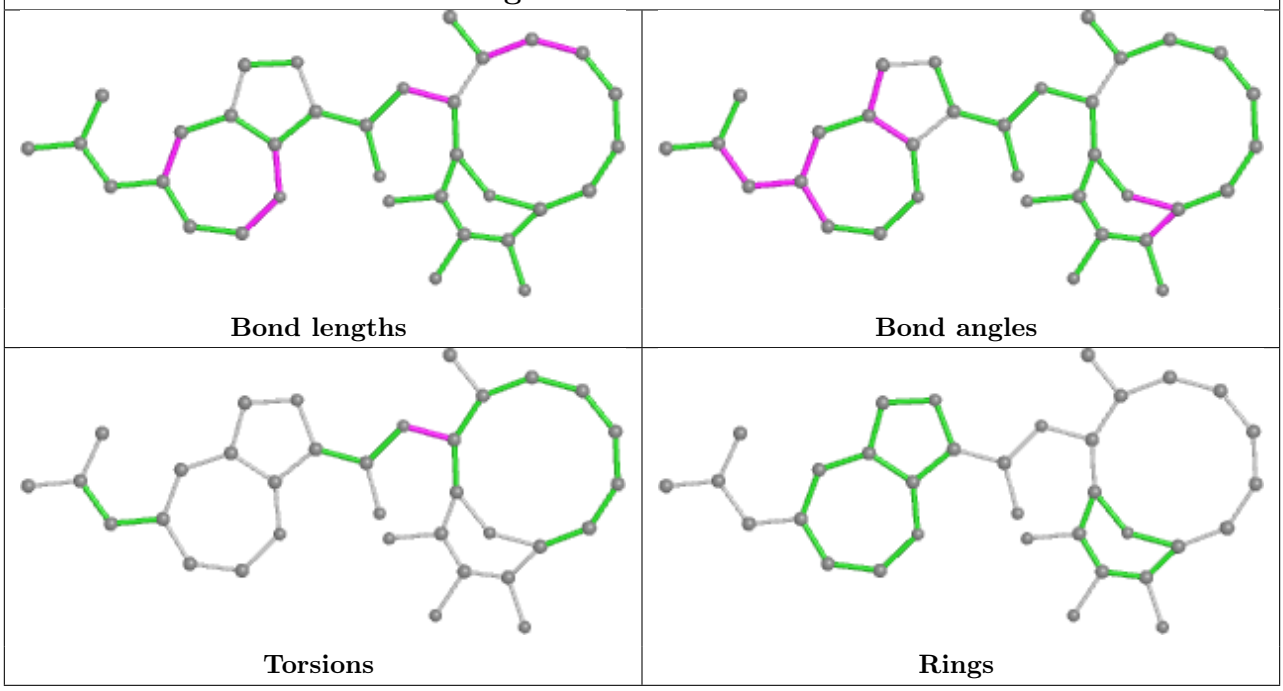
No monomer is involved in short contacts.

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 then 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.

Ligand WC9 2A 3846



Ligand WC9 1A 4098



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} 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%)	0.09	72 (2%) 57 51	21, 38, 95, 108	0
1	2A	2789/2915 (95%)	0.07	77 (2%) 53 46	34, 57, 93, 107	0
2	1B	120/121 (99%)	-0.37	0 100 100	33, 52, 67, 88	0
2	2B	120/121 (99%)	-0.38	0 100 100	61, 73, 82, 93	0
3	1D	275/276 (99%)	0.25	1 (0%) 92 91	21, 39, 52, 79	0
3	2D	275/276 (99%)	0.39	1 (0%) 92 91	30, 50, 62, 82	0
4	1E	204/206 (99%)	0.13	0 100 100	21, 39, 61, 72	0
4	2E	204/206 (99%)	0.30	4 (1%) 65 60	39, 60, 72, 83	0
5	1F	203/210 (96%)	0.12	2 (0%) 82 80	22, 45, 68, 84	0
5	2F	203/210 (96%)	0.25	1 (0%) 91 89	36, 64, 76, 84	0
6	1G	181/182 (99%)	-0.09	2 (1%) 80 78	46, 60, 74, 83	0
6	2G	181/182 (99%)	0.39	8 (4%) 34 27	62, 74, 82, 86	0
7	1H	174/180 (96%)	-0.05	1 (0%) 89 88	39, 54, 66, 73	0
7	2H	174/180 (96%)	1.85	74 (42%) 0 0	71, 84, 91, 95	0
8	1I	146/148 (98%)	-0.01	2 (1%) 75 71	49, 72, 81, 84	0
8	2I	146/148 (98%)	0.13	3 (2%) 63 58	50, 71, 82, 88	0
9	1N	140/140 (100%)	0.14	1 (0%) 87 86	25, 38, 62, 75	0
9	2N	140/140 (100%)	0.30	2 (1%) 75 71	48, 66, 79, 84	0
10	1O	122/122 (100%)	0.16	0 100 100	29, 41, 59, 63	0
10	2O	122/122 (100%)	0.27	1 (0%) 86 84	50, 61, 71, 76	0
11	1P	149/150 (99%)	0.18	2 (1%) 77 73	23, 50, 70, 75	0
11	2P	149/150 (99%)	0.86	15 (10%) 7 4	41, 63, 80, 87	0
12	1Q	141/141 (100%)	0.11	1 (0%) 87 86	28, 43, 61, 77	0
12	2Q	141/141 (100%)	0.59	9 (6%) 19 14	52, 67, 76, 83	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	1R	118/118 (100%)	0.13	0 100 100	27, 36, 47, 59	0
13	2R	118/118 (100%)	0.40	2 (1%) 70 66	44, 54, 65, 73	0
14	1S	110/112 (98%)	0.08	0 100 100	41, 52, 64, 70	0
14	2S	110/112 (98%)	0.92	17 (15%) 2 1	58, 68, 77, 80	0
15	1T	131/146 (89%)	0.18	0 100 100	36, 48, 73, 81	0
15	2T	131/146 (89%)	0.57	7 (5%) 26 20	53, 65, 75, 81	0
16	1U	116/118 (98%)	0.14	0 100 100	20, 30, 46, 66	0
16	2U	116/118 (98%)	0.23	1 (0%) 84 82	41, 63, 75, 81	0
17	1V	101/101 (100%)	-0.12	0 100 100	23, 38, 57, 65	0
17	2V	101/101 (100%)	0.04	0 100 100	44, 71, 79, 82	0
18	1W	112/113 (99%)	0.07	2 (1%) 68 64	23, 32, 51, 77	0
18	2W	112/113 (99%)	0.18	0 100 100	42, 51, 67, 83	0
19	1X	95/96 (98%)	0.10	0 100 100	29, 39, 61, 72	0
19	2X	95/96 (98%)	0.11	1 (1%) 80 78	45, 58, 74, 86	0
20	1Y	107/110 (97%)	0.01	0 100 100	37, 52, 69, 78	0
20	2Y	107/110 (97%)	0.62	9 (8%) 11 7	56, 69, 81, 87	0
21	1Z	154/206 (74%)	0.09	4 (2%) 56 50	38, 66, 84, 91	0
21	2Z	160/206 (77%)	1.20	38 (23%) 0 0	69, 80, 89, 92	0
22	10	83/85 (97%)	0.34	4 (4%) 30 24	30, 40, 60, 76	0
22	20	83/85 (97%)	0.73	6 (7%) 15 11	45, 62, 74, 83	0
23	11	97/98 (98%)	0.33	4 (4%) 37 30	31, 46, 72, 77	0
23	21	97/98 (98%)	0.24	1 (1%) 82 80	38, 53, 72, 81	0
24	12	70/72 (97%)	0.14	0 100 100	38, 50, 59, 71	0
24	22	70/72 (97%)	0.16	2 (2%) 51 45	57, 67, 75, 76	0
25	13	59/60 (98%)	-0.03	0 100 100	26, 38, 61, 82	0
25	23	59/60 (98%)	0.29	2 (3%) 45 38	54, 65, 78, 81	0
26	14	69/71 (97%)	0.41	3 (4%) 35 28	56, 76, 87, 90	0
26	24	69/71 (97%)	1.07	12 (17%) 1 0	71, 83, 92, 101	0
27	15	59/60 (98%)	0.08	1 (1%) 70 66	20, 33, 52, 59	0
27	25	59/60 (98%)	0.19	0 100 100	39, 54, 69, 76	0
28	16	53/54 (98%)	0.05	0 100 100	35, 47, 60, 65	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	26	53/54 (98%)	0.71	5 (9%) 8 5	47, 59, 66, 75	0
29	17	48/49 (97%)	0.50	3 (6%) 20 15	23, 29, 59, 69	0
29	27	48/49 (97%)	0.55	3 (6%) 20 15	35, 42, 68, 73	0
30	18	64/65 (98%)	0.23	0 100 100	28, 38, 44, 58	0
30	28	64/65 (98%)	0.71	2 (3%) 49 42	46, 53, 60, 68	0
31	19	37/37 (100%)	0.31	0 100 100	34, 42, 55, 66	0
31	29	37/37 (100%)	0.93	6 (16%) 1 1	63, 69, 78, 84	0
32	1a	1488/1521 (97%)	0.03	43 (2%) 51 45	36, 66, 93, 109	0
32	2a	1491/1521 (98%)	0.09	48 (3%) 47 40	45, 73, 93, 106	0
33	1b	231/256 (90%)	0.89	40 (17%) 1 0	64, 78, 87, 93	0
33	2b	231/256 (90%)	1.11	48 (20%) 1 0	68, 82, 88, 93	0
34	1c	206/239 (86%)	0.21	8 (3%) 39 32	60, 72, 82, 91	0
34	2c	206/239 (86%)	0.57	17 (8%) 11 8	71, 79, 86, 90	0
35	1d	208/209 (99%)	0.31	3 (1%) 75 71	56, 69, 78, 85	0
35	2d	208/209 (99%)	0.15	2 (0%) 82 80	54, 66, 74, 79	0
36	1e	148/162 (91%)	0.18	2 (1%) 75 71	51, 64, 74, 85	0
36	2e	148/162 (91%)	0.40	6 (4%) 37 30	57, 71, 79, 88	0
37	1f	100/101 (99%)	-0.04	0 100 100	56, 68, 74, 77	0
37	2f	100/101 (99%)	0.01	0 100 100	55, 67, 75, 77	0
38	1g	155/156 (99%)	0.27	8 (5%) 27 21	59, 70, 80, 88	0
38	2g	155/156 (99%)	0.22	9 (5%) 23 17	67, 74, 81, 88	0
39	1h	137/138 (99%)	0.42	6 (4%) 34 27	55, 67, 73, 78	0
39	2h	137/138 (99%)	0.81	13 (9%) 8 5	65, 73, 78, 82	0
40	1i	127/128 (99%)	1.47	36 (28%) 0 0	56, 77, 83, 88	0
40	2i	127/128 (99%)	2.20	66 (51%) 0 0	64, 81, 87, 90	0
41	1j	97/105 (92%)	1.04	20 (20%) 1 0	58, 77, 87, 92	0
41	2j	96/105 (91%)	1.75	41 (42%) 0 0	71, 82, 90, 91	0
42	1k	114/129 (88%)	0.22	1 (0%) 84 82	43, 64, 76, 81	0
42	2k	114/129 (88%)	0.03	1 (0%) 84 82	53, 70, 79, 81	0
43	1l	121/132 (91%)	0.16	0 100 100	44, 53, 67, 74	0
43	2l	121/132 (91%)	0.10	1 (0%) 86 84	55, 63, 74, 81	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	1m	123/126 (97%)	0.42	4 (3%) 46 39	52, 70, 78, 90	0
44	2m	122/126 (96%)	1.09	22 (18%) 1 0	66, 79, 85, 90	0
45	1n	60/61 (98%)	0.84	4 (6%) 17 13	60, 68, 77, 81	0
45	2n	60/61 (98%)	2.47	33 (55%) 0 0	73, 80, 85, 89	0
46	1o	88/89 (98%)	0.40	2 (2%) 60 54	50, 65, 75, 82	0
46	2o	88/89 (98%)	0.44	2 (2%) 60 54	57, 68, 79, 81	0
47	1p	82/88 (93%)	0.84	11 (13%) 3 2	55, 69, 77, 85	0
47	2p	82/88 (93%)	0.80	5 (6%) 21 16	57, 67, 75, 79	0
48	1q	99/105 (94%)	0.82	8 (8%) 12 8	53, 66, 74, 77	0
48	2q	99/105 (94%)	0.75	7 (7%) 16 11	61, 70, 77, 80	0
49	1r	68/88 (77%)	0.18	1 (1%) 73 70	53, 66, 76, 78	0
49	2r	68/88 (77%)	0.10	2 (2%) 51 45	57, 68, 75, 80	0
50	1s	83/93 (89%)	0.31	3 (3%) 42 35	62, 74, 79, 82	0
50	2s	83/93 (89%)	1.25	18 (21%) 0 0	74, 82, 87, 93	0
51	1t	96/106 (90%)	1.34	27 (28%) 0 0	58, 70, 80, 83	0
51	2t	96/106 (90%)	1.41	26 (27%) 0 0	57, 68, 80, 86	0
52	1u	23/27 (85%)	1.76	9 (39%) 0 0	63, 68, 71, 79	0
52	2u	23/27 (85%)	2.76	19 (82%) 0 0	69, 76, 79, 85	0
53	1v	13/24 (54%)	0.62	2 (15%) 2 1	48, 58, 84, 92	0
53	2v	13/24 (54%)	0.86	2 (15%) 2 1	62, 72, 87, 98	0
54	1w	67/76 (88%)	0.25	8 (11%) 4 3	49, 86, 99, 101	0
54	1y	67/76 (88%)	0.08	4 (5%) 21 16	38, 90, 97, 101	0
54	2w	65/76 (85%)	0.20	7 (10%) 5 3	69, 94, 102, 108	0
54	2y	66/76 (86%)	0.57	11 (16%) 1 1	50, 92, 98, 102	0
55	1x	71/77 (92%)	-0.15	0 100 100	33, 63, 80, 86	0
55	2x	71/77 (92%)	-0.24	1 (1%) 75 71	46, 75, 86, 97	0
All	All	20873/21748 (95%)	0.28	1071 (5%) 28 22	20, 63, 88, 109	0

All (1071) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	123	ALA	17.0
1	2A	652(V)	C	13.2

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Mol	Chain	Res	Type	RSRZ
44	2m	124	PRO	12.8
1	2A	652(C)	G	12.8
1	1A	653	A	12.7
1	2A	652(U)	G	12.1
1	1A	652(U)	G	11.4
44	1m	123	ALA	11.1
1	1A	652(V)	C	10.9
1	2A	653	A	10.0
1	1A	652(C)	G	9.7
44	1m	124	PRO	9.4
1	1A	652(S)	C	8.9
1	2A	652(T)	C	8.4
1	2A	2802	G	8.2
1	1A	652(T)	C	8.1
1	2A	654	A	8.0
21	2Z	144	LEU	7.6
45	2n	39	LEU	7.5
1	2A	652(D)	C	7.5
21	2Z	149	SER	7.3
45	2n	12	ARG	6.7
54	2w	71	G	6.7
32	2a	1030(B)	C	6.6
1	1A	1509	C	6.6
44	2m	122	LYS	6.3
1	1A	654	A	6.3
32	1a	1036	G	6.2
32	2a	1001(A)	G	6.2
32	2a	1033	G	6.2
1	2A	1509	C	6.2
7	2H	72	ILE	6.2
40	1i	15	ALA	6.1
20	2Y	1	MET	6.0
40	2i	9	ARG	5.9
40	1i	19	LEU	5.9
1	2A	884	C	5.8
40	1i	106	ALA	5.8
1	1A	652(E)	G	5.8
38	1g	80	VAL	5.6
21	2Z	170	THR	5.6
45	2n	25	VAL	5.6
1	2A	2145	C	5.6
45	2n	34	TYR	5.5

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Mol	Chain	Res	Type	RSRZ
40	2i	8	GLY	5.4
45	2n	11	LYS	5.4
45	2n	38	GLY	5.4
40	2i	106	ALA	5.4
23	21	2	SER	5.4
40	2i	86	VAL	5.3
41	2j	47	PHE	5.3
32	1a	204	U	5.3
40	1i	8	GLY	5.2
7	2H	47	GLU	5.2
1	2A	883	G	5.2
7	2H	48	GLY	5.2
7	2H	35	VAL	5.2
7	2H	52	VAL	5.2
32	1a	1030(B)	C	5.1
22	20	2	ALA	5.1
21	2Z	106	GLY	5.1
32	1a	1001(A)	G	5.1
41	2j	63	PHE	5.0
1	2A	2794	C	5.0
40	2i	14	VAL	5.0
40	2i	62	TYR	5.0
38	2g	156	TRP	5.0
33	2b	201	ILE	5.0
52	2u	17	THR	4.9
32	1a	1002	G	4.9
44	1m	2	ALA	4.9
1	2A	2146	C	4.9
39	2h	129	VAL	4.9
40	2i	66	ARG	4.9
1	1A	1096	A	4.8
7	2H	6	ARG	4.8
7	2H	99	VAL	4.8
38	1g	81	GLY	4.7
40	1i	14	VAL	4.7
23	11	2	SER	4.7
41	2j	10	GLY	4.7
50	2s	80	TYR	4.7
40	2i	36	TYR	4.7
44	2m	121	LYS	4.7
40	2i	82	ALA	4.6
40	2i	19	LEU	4.6

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Mol	Chain	Res	Type	RSRZ
29	17	48	LYS	4.6
32	2a	1257	U	4.6
40	2i	15	ALA	4.6
32	2a	1030(A)	G	4.6
33	1b	211	ILE	4.5
51	2t	63	ILE	4.5
29	27	48	LYS	4.5
1	1A	652(F)	G	4.5
54	1w	71	G	4.5
33	2b	165	VAL	4.5
1	2A	229	A	4.5
22	10	2	ALA	4.5
32	1a	1003	G	4.5
45	2n	61	TRP	4.5
1	1A	652(D)	C	4.5
22	10	3	HIS	4.5
33	2b	214	ILE	4.5
1	1A	896	A	4.4
32	1a	1035	A	4.4
54	2w	72	C	4.4
32	2a	1003	G	4.4
51	1t	68	LYS	4.4
40	2i	17	VAL	4.4
7	2H	125	VAL	4.3
40	2i	104	ARG	4.3
32	1a	1030(A)	G	4.3
45	2n	35	ARG	4.3
40	2i	79	LEU	4.3
32	2a	1039	C	4.3
1	2A	652(E)	G	4.3
32	2a	1002	G	4.3
7	2H	96	ALA	4.3
40	2i	7	THR	4.3
29	17	47	ARG	4.3
32	1a	1257	U	4.3
1	2A	2125	G	4.3
33	2b	122	PHE	4.3
32	1a	1286	A	4.2
45	2n	37	PHE	4.2
32	2a	1032	G	4.2
26	24	49	PHE	4.2
38	1g	154	TYR	4.2

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Mol	Chain	Res	Type	RSRZ
33	1b	19	HIS	4.2
39	2h	130	GLY	4.2
41	2j	85	LEU	4.2
45	2n	30	ALA	4.2
1	2A	888	C	4.2
7	2H	174	GLY	4.1
41	2j	72	VAL	4.1
7	2H	32	GLU	4.1
1	2A	2897	U	4.1
45	2n	50	LYS	4.1
33	1b	200	ILE	4.1
40	2i	90	PRO	4.1
1	1A	1098	A	4.1
1	1A	1059	G	4.0
1	2A	885	C	4.0
33	2b	92	TYR	4.0
40	1i	47	LEU	4.0
51	2t	24	LEU	4.0
1	1A	1094	U	4.0
51	1t	80	ARG	4.0
52	2u	13	ILE	4.0
33	2b	70	PHE	4.0
1	2A	2154	G	4.0
1	2A	2896	C	4.0
39	2h	2	LEU	4.0
52	2u	14	TRP	4.0
52	2u	5	ASP	4.0
1	2A	2147	G	4.0
32	2a	1031	G	4.0
40	2i	65	VAL	3.9
52	1u	18	TYR	3.9
40	2i	42	ARG	3.9
21	2Z	139	VAL	3.9
40	2i	10	ARG	3.9
1	2A	896	A	3.9
48	1q	98	LEU	3.9
45	2n	6	LEU	3.9
32	2a	1034	G	3.9
40	2i	16	ARG	3.9
7	2H	141	VAL	3.8
33	2b	187	LEU	3.8
40	2i	81	ILE	3.8

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Mol	Chain	Res	Type	RSRZ
26	24	50	VAL	3.8
1	1A	1057	A	3.8
32	2a	470	C	3.8
41	1j	66	ARG	3.8
53	2v	24	A	3.8
40	2i	105	ASP	3.8
1	2A	1112	G	3.7
7	2H	7	LEU	3.7
54	1w	70	G	3.7
47	1p	62	VAL	3.7
1	1A	884	C	3.7
1	2A	2169	A	3.7
51	1t	83	ARG	3.7
40	2i	5	TYR	3.7
1	1A	1064	C	3.7
32	1a	1030	C	3.7
32	2a	1021	G	3.7
44	2m	102	ARG	3.7
1	1A	2151	G	3.7
44	2m	7	VAL	3.7
48	1q	27	PHE	3.7
26	14	54	GLY	3.7
7	2H	175	LYS	3.7
11	2P	79	ARG	3.7
34	2c	6	HIS	3.7
52	2u	16	GLY	3.7
54	2w	4	C	3.7
7	2H	123	PHE	3.6
45	2n	31	ARG	3.6
26	24	59	PHE	3.6
33	1b	188	ALA	3.6
51	2t	59	ALA	3.6
26	24	32	TYR	3.6
32	1a	1532	U	3.6
1	2A	2111	C	3.6
21	2Z	147	GLY	3.6
33	2b	164	VAL	3.6
11	2P	118	GLY	3.6
40	2i	13	ALA	3.6
40	1i	65	VAL	3.6
52	2u	15	ARG	3.6
33	2b	232	PRO	3.6

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Mol	Chain	Res	Type	RSRZ
14	2S	58	LEU	3.6
33	1b	15	VAL	3.6
41	2j	65	LEU	3.6
32	2a	1035	A	3.6
52	1u	9	ARG	3.6
40	2i	61	ALA	3.6
51	1t	76	ALA	3.6
1	1A	1058	G	3.6
48	1q	28	PRO	3.6
54	1y	47	U	3.5
40	2i	109	VAL	3.5
33	1b	227	GLY	3.5
6	2G	3	LEU	3.5
40	1i	46	ALA	3.5
33	2b	81	VAL	3.5
44	2m	60	VAL	3.5
1	1A	1077	A	3.5
53	2v	12	A	3.5
51	1t	69	GLY	3.5
47	2p	74	LEU	3.5
52	2u	6	ARG	3.5
1	2A	2139	C	3.5
26	24	18	CYS	3.5
1	2A	2128	C	3.5
52	2u	9	ARG	3.5
51	1t	66	ALA	3.5
40	2i	28	VAL	3.5
32	1a	1026	G	3.5
41	2j	31	GLY	3.5
44	2m	66	LEU	3.5
33	1b	133	LYS	3.4
38	2g	32	ARG	3.4
34	2c	60	ALA	3.4
50	2s	38	SER	3.4
1	2A	2801(A)	A	3.4
13	2R	69	ASP	3.4
21	2Z	140	ASP	3.4
40	2i	107	ARG	3.4
41	2j	39	PRO	3.4
7	2H	46	GLU	3.4
21	2Z	152	ALA	3.4
1	2A	2138	C	3.4

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Mol	Chain	Res	Type	RSRZ
40	1i	86	VAL	3.4
34	1c	39	ILE	3.4
51	2t	28	ALA	3.4
40	2i	114	TYR	3.4
21	2Z	141	VAL	3.4
40	2i	27	THR	3.4
1	1A	2145	C	3.4
33	2b	163	PHE	3.4
32	1a	1447	A	3.4
32	2a	1447	A	3.4
14	2S	11	LYS	3.4
38	2g	16	LEU	3.4
50	2s	63	THR	3.4
29	27	47	ARG	3.4
7	2H	20	ALA	3.4
26	24	67	TYR	3.4
33	2b	31	TYR	3.4
1	1A	2159	G	3.4
20	2Y	58	GLY	3.4
40	1i	109	VAL	3.4
45	2n	13	THR	3.4
6	2G	182	LYS	3.4
1	2A	2173	A	3.4
1	2A	2155	G	3.3
40	1i	81	ILE	3.3
45	2n	4	LYS	3.3
45	2n	10	ALA	3.3
40	1i	66	ARG	3.3
21	2Z	121	HIS	3.3
41	2j	75	ILE	3.3
34	2c	201	TYR	3.3
41	1j	98	ILE	3.3
22	10	6	GLY	3.3
51	1t	79	ARG	3.3
1	1A	2793	G	3.3
1	2A	2112	G	3.3
40	1i	26	VAL	3.3
1	2A	2804	C	3.3
51	1t	72	LEU	3.3
26	24	51	ASP	3.3
1	2A	2792	G	3.3
50	2s	36	ARG	3.3

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Mol	Chain	Res	Type	RSRZ
40	2i	4	TYR	3.3
41	1j	75	ILE	3.3
7	2H	100	GLY	3.3
1	1A	2131	G	3.3
33	2b	215	LEU	3.3
12	2Q	6	ARG	3.3
11	2P	109	GLY	3.3
7	2H	49	VAL	3.2
33	1b	165	VAL	3.2
34	1c	193	TYR	3.2
52	1u	2	GLY	3.2
11	2P	15	ARG	3.2
51	2t	72	LEU	3.2
22	20	4	LYS	3.2
38	2g	80	VAL	3.2
48	1q	7	THR	3.2
7	2H	121	ILE	3.2
32	2a	1024	G	3.2
51	1t	18	GLN	3.2
47	2p	73	LEU	3.2
45	2n	55	GLY	3.2
1	2A	652(B)	A	3.2
1	2A	272(A)	U	3.2
1	1A	2792	G	3.2
1	2A	2793	G	3.2
41	2j	44	VAL	3.2
51	2t	55	ILE	3.2
1	1A	885	C	3.2
22	20	3	HIS	3.2
40	1i	113	LYS	3.2
41	2j	56	HIS	3.2
7	2H	24	VAL	3.2
23	11	98	LEU	3.2
7	2H	2	SER	3.2
32	2a	1149	C	3.2
47	1p	2	VAL	3.2
32	1a	1034	G	3.2
32	2a	1036	G	3.2
48	2q	59	ILE	3.2
3	1D	276	LYS	3.2
41	1j	71	LEU	3.2
1	1A	1078	U	3.1

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Mol	Chain	Res	Type	RSRZ
1	1A	2170	A	3.1
1	1A	889	C	3.1
32	2a	1452	C	3.1
21	2Z	153	SER	3.1
26	24	29	PRO	3.1
32	2a	1117	G	3.1
47	2p	59	TRP	3.1
1	2A	652(A)	A	3.1
32	2a	1038	C	3.1
7	2H	37	VAL	3.1
40	2i	64	THR	3.1
41	1j	46	ARG	3.1
7	2H	128	PRO	3.1
41	1j	41	PRO	3.1
54	1w	20	U	3.1
42	1k	25	TYR	3.1
38	1g	79	ARG	3.1
51	1t	13	LEU	3.1
54	1w	1	G	3.1
40	1i	20	ARG	3.1
7	2H	43	VAL	3.1
7	2H	64	LEU	3.1
51	1t	84	LEU	3.1
7	2H	55	PRO	3.1
39	2h	134	ILE	3.1
41	2j	98	ILE	3.1
54	1y	20	U	3.1
33	1b	132	LYS	3.1
29	17	46	VAL	3.1
7	2H	105	LEU	3.1
40	2i	102	LEU	3.1
41	1j	65	LEU	3.1
51	1t	62	LEU	3.1
47	2p	19	ILE	3.1
1	2A	2159	G	3.0
33	1b	44	LEU	3.0
33	1b	215	LEU	3.0
40	1i	79	LEU	3.0
1	1A	2896	C	3.0
1	2A	2126	A	3.0
38	2g	154	TYR	3.0
50	2s	67	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
45	2n	8	GLU	3.0
1	2A	892	G	3.0
1	2A	2160	G	3.0
7	2H	148	ILE	3.0
33	1b	232	PRO	3.0
52	2u	11	GLY	3.0
1	2A	2113	U	3.0
34	2c	198	VAL	3.0
21	2Z	148	ASP	3.0
33	2b	69	LEU	3.0
11	2P	110	TYR	3.0
54	2y	57	G	3.0
1	1A	888	C	3.0
41	2j	61	GLU	3.0
38	1g	84	ASN	3.0
41	2j	24	VAL	3.0
33	2b	186	ALA	3.0
26	14	45	GLY	3.0
41	1j	10	GLY	3.0
45	2n	51	GLY	3.0
36	2e	133	TYR	3.0
54	2w	3	C	3.0
50	1s	15	LEU	3.0
32	2a	1030(D)	A	3.0
23	11	93	GLU	3.0
50	2s	70	LYS	3.0
51	2t	68	LYS	3.0
32	1a	1029	C	3.0
34	1c	13	GLY	3.0
41	2j	74	ILE	3.0
42	2k	25	TYR	3.0
40	2i	108	VAL	3.0
18	1W	112	GLY	3.0
34	2c	145	GLY	3.0
6	2G	181	ARG	3.0
11	2P	75	ILE	2.9
40	2i	77	ILE	2.9
4	2E	195	LEU	2.9
7	2H	82	GLY	2.9
7	2H	115	VAL	2.9
48	2q	74	LEU	2.9
52	2u	19	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
28	26	50	ARG	2.9
33	2b	127	ILE	2.9
1	1A	1063	G	2.9
32	2a	79	G	2.9
7	2H	79	VAL	2.9
32	1a	1030(D)	A	2.9
21	2Z	145	GLU	2.9
31	29	17	ILE	2.9
33	2b	55	PHE	2.9
11	2P	76	LYS	2.9
26	24	68	ARG	2.9
54	1w	72	C	2.9
14	2S	32	LEU	2.9
7	2H	76	VAL	2.9
47	1p	48	TRP	2.9
50	2s	50	ALA	2.9
51	1t	77	ALA	2.9
41	2j	73	ASP	2.9
40	2i	72	GLY	2.9
50	2s	26	GLY	2.9
47	1p	38	TYR	2.9
32	2a	1030(C)	G	2.9
40	2i	33	PHE	2.9
21	2Z	76	LEU	2.9
32	1a	1027	C	2.9
33	1b	21	ARG	2.9
1	1A	2802	G	2.9
32	2a	1004	A	2.9
15	2T	28	VAL	2.9
44	2m	15	VAL	2.9
52	2u	21	TYR	2.9
32	2a	1018	C	2.9
40	2i	80	GLY	2.9
33	2b	200	ILE	2.9
7	2H	18	GLU	2.9
45	2n	17	LYS	2.9
41	2j	88	LEU	2.9
51	1t	22	ARG	2.9
1	1A	1508	A	2.8
32	2a	1005	A	2.8
1	2A	1026	U	2.8
33	1b	201	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
34	2c	5	ILE	2.8
51	1t	70	SER	2.8
1	1A	1076	C	2.8
28	26	11	LEU	2.8
21	2Z	96	VAL	2.8
33	2b	123	ALA	2.8
33	1b	52	GLU	2.8
40	2i	30	GLY	2.8
32	2a	1001	A	2.8
54	2y	36	A	2.8
33	1b	197	VAL	2.8
21	2Z	122	ARG	2.8
33	1b	70	PHE	2.8
40	1i	33	PHE	2.8
32	1a	1030(C)	G	2.8
41	2j	55	LYS	2.8
52	1u	17	THR	2.8
1	2A	894	C	2.8
4	2E	196	VAL	2.8
40	1i	4	TYR	2.8
39	2h	112	LEU	2.8
40	2i	75	ASP	2.8
32	2a	1532	U	2.8
7	2H	21	PRO	2.8
9	1N	140	VAL	2.8
41	2j	34	VAL	2.8
45	1n	2	ALA	2.8
53	1v	12	A	2.8
47	1p	1	MET	2.8
26	24	31	ILE	2.8
40	2i	37	PHE	2.8
45	2n	16	PHE	2.8
1	1A	2132	U	2.8
39	2h	131	GLY	2.8
5	2F	183	VAL	2.8
21	1Z	165	VAL	2.8
52	2u	10	ARG	2.8
1	2A	2174	C	2.8
50	1s	16	LEU	2.8
33	1b	54	THR	2.8
33	2b	26	PRO	2.8
33	2b	71	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
33	2b	32	ILE	2.8
1	1A	2803	C	2.8
32	2a	1027	C	2.8
7	2H	132	ARG	2.8
29	27	46	VAL	2.7
40	1i	76	ALA	2.7
1	1A	1065	U	2.7
40	2i	18	PHE	2.7
48	2q	22	LEU	2.7
41	2j	96	ILE	2.7
32	1a	1001	A	2.7
21	1Z	149	SER	2.7
22	10	4	LYS	2.7
7	1H	174	GLY	2.7
39	1h	133	LEU	2.7
52	2u	18	TYR	2.7
21	2Z	169	GLU	2.7
40	2i	87	GLN	2.7
40	2i	78	LYS	2.7
41	2j	59	SER	2.7
44	2m	65	LYS	2.7
48	2q	23	VAL	2.7
1	1A	2804	C	2.7
54	2y	21	A	2.7
7	2H	31	GLY	2.7
34	2c	178	LEU	2.7
51	2t	83	ARG	2.7
21	2Z	57	ILE	2.7
45	2n	42	ILE	2.7
14	2S	46	VAL	2.7
21	2Z	93	ASP	2.7
7	2H	41	MET	2.7
21	2Z	79	ARG	2.7
40	1i	9	ARG	2.7
40	2i	115	GLY	2.7
52	1u	16	GLY	2.7
33	2b	152	PHE	2.7
44	2m	70	LEU	2.7
50	2s	53	ASN	2.7
3	2D	276	LYS	2.7
33	1b	222	ILE	2.7
14	2S	31	SER	2.7

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Mol	Chain	Res	Type	RSRZ
21	2Z	104	PHE	2.7
21	2Z	157	LEU	2.7
32	2a	1037	C	2.7
48	1q	36	ILE	2.7
51	1t	63	ILE	2.7
1	2A	2110	G	2.7
32	1a	1033	G	2.7
54	2w	70	G	2.7
41	1j	9	ARG	2.7
51	1t	59	ALA	2.7
7	2H	113	VAL	2.7
41	1j	44	VAL	2.7
51	2t	88	VAL	2.7
26	24	54	GLY	2.7
38	1g	85	TYR	2.7
51	2t	41	ILE	2.7
33	1b	189	ASP	2.7
1	2A	2170	A	2.7
41	1j	13	HIS	2.7
46	2o	60	VAL	2.7
41	2j	11	PHE	2.7
50	2s	31	ILE	2.7
1	2A	614(A)	U	2.6
54	1w	3	C	2.6
48	2q	21	VAL	2.6
33	1b	61	LEU	2.6
31	29	19	ARG	2.6
50	2s	62	ILE	2.6
16	2U	2	PRO	2.6
40	1i	90	PRO	2.6
1	1A	2897	U	2.6
33	1b	134	GLU	2.6
41	2j	9	ARG	2.6
33	1b	31	TYR	2.6
34	1c	14	ILE	2.6
45	2n	7	ILE	2.6
54	2y	19	G	2.6
54	2y	65	G	2.6
45	2n	49	HIS	2.6
22	20	74	ARG	2.6
39	2h	133	LEU	2.6
51	2t	25	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
1	1A	2801(A)	A	2.6
14	2S	52	SER	2.6
54	2y	58	A	2.6
6	2G	17	PRO	2.6
7	2H	29	PRO	2.6
36	2e	8	GLU	2.6
51	2t	30	LYS	2.6
1	1A	1099	G	2.6
1	1A	2115	G	2.6
32	1a	1023	G	2.6
7	2H	67	LEU	2.6
20	2Y	5	MET	2.6
32	1a	1020	U	2.6
1	1A	1100	C	2.6
1	2A	2803	C	2.6
34	2c	8	ILE	2.6
7	2H	95	ARG	2.6
26	14	68	ARG	2.6
40	2i	83	ARG	2.6
45	1n	59	ALA	2.6
32	1a	1005	A	2.6
7	2H	33	LEU	2.6
39	2h	4	ASP	2.6
51	1t	64	ASP	2.6
1	1A	1060	U	2.6
32	1a	1446	U	2.6
1	1A	2128	C	2.6
34	2c	182	ILE	2.6
7	2H	102	ALA	2.6
15	2T	126	ALA	2.6
21	2Z	8	TYR	2.6
34	2c	193	TYR	2.6
41	2j	20	ALA	2.6
54	1w	73	A	2.6
33	2b	203	GLY	2.6
1	2A	2115	G	2.6
7	2H	101	ARG	2.6
54	2y	53	G	2.6
32	1a	470	C	2.6
32	1a	1137	C	2.6
33	2b	197	VAL	2.6
48	1q	35	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
21	2Z	150	LEU	2.6
55	2x	47	U	2.5
21	2Z	172	ALA	2.5
33	2b	207	ALA	2.5
40	1i	82	ALA	2.5
11	2P	101	VAL	2.5
11	2P	106	LEU	2.5
23	11	97	LEU	2.5
50	1s	71	LEU	2.5
32	1a	1039	C	2.5
34	2c	206	GLU	2.5
41	1j	27	ALA	2.5
48	2q	85	VAL	2.5
50	2s	71	LEU	2.5
1	1A	2116	G	2.5
40	2i	127	LYS	2.5
1	1A	2161	C	2.5
32	1a	219	C	2.5
40	2i	12	GLU	2.5
40	1i	64	THR	2.5
40	2i	103	THR	2.5
7	2H	13	LYS	2.5
32	1a	202	U	2.5
41	1j	34	VAL	2.5
52	2u	22	ARG	2.5
15	2T	1	MET	2.5
1	2A	2148	G	2.5
32	2a	1030	C	2.5
12	2Q	121	ALA	2.5
15	2T	48	ILE	2.5
31	29	20	HIS	2.5
40	2i	43	ALA	2.5
41	1j	67	THR	2.5
45	2n	22	THR	2.5
11	2P	111	ARG	2.5
38	2g	79	ARG	2.5
1	1A	1095	A	2.5
40	1i	59	PHE	2.5
7	2H	126	PRO	2.5
45	1n	57	ARG	2.5
1	1A	1075	C	2.5
52	2u	2	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
8	2I	75	LEU	2.5
22	20	7	LEU	2.5
44	2m	64	TRP	2.5
7	2H	45	VAL	2.5
40	2i	125	TYR	2.5
33	2b	48	MET	2.5
11	2P	97	PRO	2.5
33	2b	34	ALA	2.5
41	2j	48	THR	2.5
50	2s	49	ILE	2.5
32	2a	91	C	2.5
40	2i	53	VAL	2.5
44	2m	98	VAL	2.5
45	1n	25	VAL	2.5
21	1Z	1	MET	2.5
33	1b	48	MET	2.5
1	1A	1082	U	2.5
41	2j	58	ASP	2.5
33	2b	68	ILE	2.5
44	2m	78	ILE	2.5
22	20	75	LEU	2.5
33	2b	118	LEU	2.5
12	2Q	32	TYR	2.5
51	2t	47	GLY	2.4
8	2I	35	LEU	2.4
8	2I	38	LEU	2.4
14	2S	54	LEU	2.4
33	1b	185	ILE	2.4
36	2e	11	ILE	2.4
31	29	16	VAL	2.4
32	1a	1531	A	2.4
39	2h	97	VAL	2.4
50	2s	37	ARG	2.4
51	1t	86	ARG	2.4
1	1A	2146	C	2.4
40	2i	6	GLY	2.4
1	2A	2805	G	2.4
32	2a	1178	G	2.4
33	2b	29	ALA	2.4
40	1i	28	VAL	2.4
33	1b	28	PHE	2.4
7	2H	14	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
39	2h	9	MET	2.4
40	2i	52	ALA	2.4
54	1y	56	C	2.4
7	2H	51	ARG	2.4
33	1b	214	ILE	2.4
35	2d	158	ILE	2.4
32	2a	485	G	2.4
51	2t	26	ASN	2.4
26	24	63	TYR	2.4
7	2H	69	ARG	2.4
33	2b	121	LEU	2.4
52	1u	8	THR	2.4
32	2a	1223	C	2.4
33	1b	50	GLU	2.4
40	1i	118	LYS	2.4
1	1A	1066	U	2.4
31	29	37	GLY	2.4
35	2d	23	GLY	2.4
1	2A	2894	G	2.4
32	1a	79	G	2.4
11	1P	99	LEU	2.4
40	2i	76	ALA	2.4
46	2o	32	LEU	2.4
47	1p	60	LEU	2.4
33	2b	185	ILE	2.4
44	2m	53	VAL	2.4
41	1j	70	ARG	2.4
51	2t	85	MET	2.4
7	2H	53	GLU	2.4
7	2H	159	GLU	2.4
11	2P	78	PRO	2.4
1	2A	2156	G	2.4
28	26	10	LEU	2.4
36	1e	21	ALA	2.4
11	2P	91	PHE	2.4
1	2A	1536	C	2.4
50	2s	81	ARG	2.4
20	2Y	55	TYR	2.4
14	2S	84	GLN	2.4
51	2t	90	GLN	2.4
6	2G	139	LEU	2.4
52	2u	8	THR	2.4

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Mol	Chain	Res	Type	RSRZ
8	1I	109	ILE	2.4
21	2Z	143	GLY	2.4
32	1a	1031	G	2.4
39	2h	111	ILE	2.4
12	2Q	109	VAL	2.4
33	2b	105	PHE	2.4
40	1i	17	VAL	2.4
1	1A	1081	U	2.3
32	2a	1446	U	2.3
1	1A	2107	C	2.3
40	1i	58	HIS	2.3
44	2m	97	PRO	2.3
39	1h	2	LEU	2.3
47	1p	68	ASP	2.3
50	2s	30	LEU	2.3
51	2t	84	LEU	2.3
19	2X	68	ARG	2.3
33	2b	162	ILE	2.3
41	2j	66	ARG	2.3
7	2H	39	PRO	2.3
7	2H	65	HIS	2.3
32	1a	1040	U	2.3
33	2b	133	LYS	2.3
54	2y	60	U	2.3
39	1h	4	ASP	2.3
45	2n	2	ALA	2.3
44	2m	71	ARG	2.3
7	2H	77	LYS	2.3
33	2b	19	HIS	2.3
44	2m	23	TYR	2.3
45	2n	14	PRO	2.3
33	1b	187	LEU	2.3
46	1o	78	TYR	2.3
20	2Y	75	ILE	2.3
7	2H	54	ARG	2.3
14	2S	20	ARG	2.3
40	2i	21	PRO	2.3
51	2t	79	ARG	2.3
7	2H	70	THR	2.3
14	2S	37	ALA	2.3
1	2A	2150	U	2.3
41	1j	11	PHE	2.3

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Mol	Chain	Res	Type	RSRZ
41	1j	47	PHE	2.3
1	2A	2158	A	2.3
7	2H	23	ARG	2.3
14	2S	3	ARG	2.3
33	1b	53	ARG	2.3
50	2s	15	LEU	2.3
40	1i	88	TYR	2.3
51	2t	77	ALA	2.3
4	2E	167	VAL	2.3
39	1h	53	VAL	2.3
7	2H	3	ARG	2.3
7	2H	10	PRO	2.3
51	1t	74	LYS	2.3
45	2n	47	LEU	2.3
14	2S	36	TYR	2.3
7	2H	124	GLU	2.3
8	1I	117	GLU	2.3
1	1A	2113	U	2.3
15	2T	125	ARG	2.3
32	2a	1040	U	2.3
34	2c	157	ILE	2.3
51	1t	41	ILE	2.3
45	2n	19	ARG	2.3
52	1u	15	ARG	2.3
51	2t	29	LYS	2.3
47	1p	59	TRP	2.3
12	2Q	113	GLN	2.3
41	2j	40	LEU	2.3
41	2j	62	HIS	2.3
32	1a	1037	C	2.3
32	2a	1119	C	2.3
40	2i	45	ALA	2.3
12	1Q	32	TYR	2.3
34	1c	206	GLU	2.3
40	1i	110	GLU	2.3
1	2A	2117	A	2.3
12	2Q	66	ILE	2.3
15	2T	22	PHE	2.3
39	1h	6	ILE	2.3
41	2j	38	ILE	2.3
21	2Z	100	VAL	2.3
1	2A	2132	U	2.2

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Mol	Chain	Res	Type	RSRZ
34	1c	12	LEU	2.2
14	2S	6	ALA	2.2
7	2H	97	ARG	2.2
33	2b	33	TYR	2.2
48	1q	32	TYR	2.2
51	2t	86	ARG	2.2
1	1A	1070	A	2.2
7	2H	26	VAL	2.2
32	1a	162	A	2.2
35	1d	203	VAL	2.2
38	2g	82	GLY	2.2
40	2i	41	VAL	2.2
54	2w	73	A	2.2
21	2Z	130	PRO	2.2
34	1c	47	LEU	2.2
25	23	29	ARG	2.2
1	1A	1176	G	2.2
1	1A	2110	G	2.2
1	2A	2153	G	2.2
6	1G	26	GLN	2.2
45	2n	56	VAL	2.2
54	2y	18	G	2.2
33	1b	233	SER	2.2
1	1A	2158	A	2.2
1	2A	1508	A	2.2
7	2H	171	LEU	2.2
32	2a	1180	A	2.2
38	1g	156	TRP	2.2
40	2i	49	PRO	2.2
40	2i	85	LEU	2.2
44	1m	48	LEU	2.2
48	2q	6	LEU	2.2
1	1A	1175	U	2.2
24	22	1	MET	2.2
40	1i	52	ALA	2.2
51	2t	101	GLY	2.2
7	2H	17	VAL	2.2
21	2Z	146	ILE	2.2
41	2j	6	ILE	2.2
1	1A	2162	G	2.2
1	1A	2166	G	2.2
1	2A	2127	G	2.2

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Mol	Chain	Res	Type	RSRZ
21	2Z	155	LEU	2.2
40	2i	128	ARG	2.2
48	1q	91	ARG	2.2
54	1w	44	G	2.2
1	2A	2118	U	2.2
33	2b	193	ASP	2.2
33	2b	220	ASP	2.2
21	2Z	94	GLU	2.2
7	2H	30	LYS	2.2
52	2u	20	LYS	2.2
21	2Z	126	VAL	2.2
33	2b	94	ASN	2.2
41	1j	45	ARG	2.2
21	2Z	163	LEU	2.2
54	2y	56	C	2.2
51	1t	67	ALA	2.2
7	2H	86	GLU	2.2
1	2A	2119	A	2.2
32	2a	1287	A	2.2
12	2Q	27	VAL	2.2
41	2j	29	ARG	2.2
49	1r	39	VAL	2.2
51	1t	23	ARG	2.2
15	2T	99	LEU	2.2
1	1A	2139	C	2.2
33	2b	54	THR	2.2
52	2u	4	GLY	2.2
32	2a	1219	U	2.2
47	1p	80	PHE	2.2
52	1u	10	ARG	2.2
1	2A	2120	G	2.2
1	2A	2151	G	2.2
12	2Q	102	VAL	2.2
28	26	52	VAL	2.2
31	29	26	ILE	2.2
33	1b	136	VAL	2.2
33	1b	229	VAL	2.2
34	2c	134	ILE	2.2
44	2m	120	LYS	2.2
41	2j	91	PRO	2.2
36	1e	85	GLY	2.2
7	2H	56	SER	2.1

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Mol	Chain	Res	Type	RSRZ
7	2H	131	VAL	2.1
13	2R	14	SER	2.1
33	2b	58	ILE	2.1
9	2N	116	LEU	2.1
1	2A	2123	G	2.1
33	2b	183	PRO	2.1
32	1a	1503	A	2.1
33	1b	30	ARG	2.1
36	2e	138	ALA	2.1
33	2b	90	MET	2.1
40	2i	20	ARG	2.1
51	2t	76	ALA	2.1
51	1t	71	THR	2.1
14	2S	29	PHE	2.1
1	1A	2111	C	2.1
1	2A	645	C	2.1
5	1F	89	VAL	2.1
11	1P	71	VAL	2.1
11	2P	114	ILE	2.1
25	23	47	VAL	2.1
47	1p	36	ILE	2.1
52	1u	21	TYR	2.1
20	2Y	106	LEU	2.1
33	2b	221	LEU	2.1
47	1p	6	LEU	2.1
20	2Y	107	ASP	2.1
6	2G	115	ARG	2.1
41	2j	32	ALA	2.1
49	2r	21	LYS	2.1
51	2t	78	ALA	2.1
1	2A	882	G	2.1
41	2j	100	THR	2.1
51	1t	85	MET	2.1
21	1Z	169	GLU	2.1
32	1a	1280	A	2.1
7	2H	133	VAL	2.1
9	2N	98	VAL	2.1
21	2Z	128	VAL	2.1
1	2A	886	C	2.1
1	2A	2107	C	2.1
32	1a	841	U	2.1
12	2Q	63	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
33	2b	161	ALA	2.1
1	1A	2117	A	2.1
32	2a	1026	G	2.1
10	2O	69	ILE	2.1
27	15	60	VAL	2.1
40	1i	10	ARG	2.1
24	22	5	GLU	2.1
32	2a	90	U	2.1
21	2Z	164	ALA	2.1
40	1i	45	ALA	2.1
21	2Z	98	MET	2.1
41	2j	87	THR	2.1
51	1t	9	ASN	2.1
41	2j	7	LYS	2.1
6	2G	60	LEU	2.1
7	2H	94	TYR	2.1
33	1b	213	LEU	2.1
33	1b	228	GLY	2.1
34	2c	155	GLY	2.1
39	2h	96	GLY	2.1
40	2i	93	ARG	2.1
41	2j	46	ARG	2.1
32	1a	1024	G	2.1
34	2c	23	TYR	2.1
32	1a	1025	U	2.1
32	2a	1150	U	2.1
1	2A	1043	C	2.1
6	2G	161	THR	2.1
30	28	15	LYS	2.1
41	2j	42	THR	2.1
11	2P	77	ARG	2.1
14	2S	9	ARG	2.1
39	2h	99	GLU	2.1
41	2j	64	GLU	2.1
21	2Z	105	VAL	2.1
28	26	54	ILE	2.1
41	1j	62	HIS	2.1
14	2S	51	ALA	2.1
32	2a	80	G	2.1
45	2n	58	LYS	2.1
53	1v	24	A	2.1
54	1y	35	A	2.1

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Mol	Chain	Res	Type	RSRZ
5	1F	15	SER	2.1
33	1b	137	ARG	2.1
41	1j	5	ARG	2.1
45	2n	57	ARG	2.1
51	2t	57	ARG	2.1
52	2u	24	ARG	2.1
32	1a	221	C	2.1
32	2a	1006	C	2.1
35	1d	167	GLY	2.1
36	2e	85	GLY	2.1
4	2E	181	LEU	2.1
35	1d	198	VAL	2.1
40	1i	85	LEU	2.1
46	1o	65	ARG	2.1
38	2g	8	GLU	2.1
1	1A	1073	A	2.1
1	2A	2124	G	2.0
32	1a	216	G	2.0
32	2a	1196	U	2.0
41	2j	36	GLY	2.1
54	2y	63	G	2.0
33	1b	75	LYS	2.0
40	2i	95	LYS	2.0
49	2r	66	LEU	2.0
43	2l	18	VAL	2.0
40	2i	74	ILE	2.0
34	2c	184	TYR	2.0
33	2b	114	ARG	2.0
40	1i	93	ARG	2.0
51	2t	80	ARG	2.0
34	2c	185	GLY	2.0
45	2n	53	LEU	2.0
54	2w	76	A	2.0
1	1A	2178	C	2.0
18	1W	92	ARG	2.0
33	1b	68	ILE	2.0
38	2g	4	ARG	2.0
40	2i	121	ARG	2.0
44	2m	3	ARG	2.0
44	2m	59	TYR	2.0
40	1i	119	ALA	2.0
20	2Y	4	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
20	2Y	59	GLY	2.0
33	1b	190	THR	2.0
39	1h	128	GLY	2.0
30	28	25	MET	2.0
6	1G	149	VAL	2.0
7	2H	36	PRO	2.0
14	2S	85	VAL	2.0
21	2Z	138	GLU	2.0
38	1g	32	ARG	2.0
47	2p	79	VAL	2.0
1	1A	1068	G	2.0
1	1A	2174	C	2.0
1	2A	1533	G	2.0
50	2s	48	THR	2.0
36	2e	10	MET	2.0
34	1c	32	LEU	2.0
51	1t	24	LEU	2.0
7	2H	138	LYS	2.0
44	2m	13	LYS	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, 95^{th} 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
54	PSU	1y	55	20/21	0.77	0.29	93,96,110,114	0
54	5MU	1y	54	21/22	0.79	0.31	81,92,102,108	0
54	4SU	2y	8	20/21	0.79	0.15	85,95,101,110	0
54	PSU	2y	55	20/21	0.79	0.25	91,95,108,119	0
54	4SU	2w	8	20/21	0.80	0.17	91,95,111,121	0
54	G7M	1y	46	24/25	0.83	0.16	84,92,106,114	0
54	MIA	2y	37	22/30	0.83	0.18	83,90,101,107	0
54	G7M	2w	46	24/25	0.83	0.14	84,94,106,115	0
54	PSU	1w	55	20/21	0.84	0.15	65,80,88,89	0
54	G7M	2y	46	24/25	0.84	0.16	86,94,102,115	0
54	5MU	2y	54	21/22	0.84	0.29	85,93,105,118	0
54	4SU	1y	8	20/21	0.84	0.14	88,92,100,101	0
54	PSU	2w	55	20/21	0.85	0.15	82,87,96,99	0
54	G7M	1w	46	24/25	0.86	0.16	81,90,102,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	PSU	2y	32	20/21	0.87	0.18	84,90,96,103	0
54	MIA	1y	37	22/30	0.88	0.18	77,84,90,93	0
55	4SU	2x	8	20/21	0.88	0.15	77,80,85,87	0
54	PSU	2y	39	20/21	0.90	0.19	81,89,98,99	0
54	4SU	1w	8	20/21	0.90	0.15	78,86,98,98	0
54	PSU	1w	32	20/21	0.91	0.18	59,66,73,75	0
54	PSU	1y	32	20/21	0.91	0.15	78,84,89,90	0
54	5MU	2w	54	21/22	0.91	0.14	77,80,85,89	0
55	5MU	2x	54	21/22	0.92	0.17	72,76,81,84	0
54	PSU	2w	32	20/21	0.92	0.15	67,77,87,91	0
54	MIA	2w	37	25/30	0.92	0.18	58,71,83,101	0
54	PSU	1y	39	20/21	0.92	0.16	77,82,86,92	0
55	PSU	2x	55	20/21	0.93	0.13	66,74,79,86	0
32	5MC	2a	967	21/22	0.93	0.20	59,65,73,80	0
32	PSU	2a	516	20/21	0.93	0.13	63,69,75,81	0
32	M2G	2a	966	25/26	0.93	0.28	58,65,77,83	0
54	PSU	2w	39	20/21	0.94	0.23	60,74,83,83	0
54	MIA	1w	37	29/30	0.94	0.25	45,57,69,81	0
32	2MG	2a	1207	24/25	0.94	0.13	70,79,82,83	0
43	0TD	2l	92	10/11	0.94	0.18	59,61,67,70	0
55	4SU	1x	8	20/21	0.94	0.17	54,66,73,75	0
55	PSU	1x	55	20/21	0.94	0.15	54,61,75,85	0
54	5MU	1w	54	21/22	0.94	0.14	47,66,73,75	0
32	2MG	1a	1207	24/25	0.95	0.15	61,70,73,75	0
55	5MU	1x	54	21/22	0.95	0.14	53,64,77,81	0
55	5MC	2x	32	21/22	0.95	0.17	68,71,74,81	0
32	4OC	2a	1402	22/23	0.95	0.18	51,60,64,65	0
32	G7M	2a	527	24/25	0.95	0.18	58,64,70,75	0
43	0TD	1l	92	10/11	0.95	0.18	48,54,56,71	0
1	5MU	1A	1915	21/22	0.95	0.18	46,52,57,57	0
1	5MU	2A	1915	21/22	0.95	0.19	57,63,68,70	0
1	OMC	2A	1920	21/22	0.95	0.22	48,59,62,68	0
32	MA6	2a	1518	24/25	0.96	0.20	51,62,66,70	0
32	MA6	2a	1519	24/25	0.96	0.22	45,56,65,67	0
54	PSU	1w	39	20/21	0.96	0.20	54,64,74,76	0
32	5MC	2a	1400	21/22	0.96	0.20	65,70,73,83	0
32	5MC	1a	967	21/22	0.96	0.20	46,53,61,62	0
1	PSU	2A	1917	20/21	0.96	0.19	53,63,68,69	0
32	5MC	2a	1404	21/22	0.96	0.17	52,56,60,65	0
1	5MC	2A	1942	21/22	0.96	0.22	50,56,60,64	0
1	5MC	2A	1962	21/22	0.96	0.22	36,49,53,62	0
1	OMU	2A	2552	21/22	0.96	0.21	43,47,50,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	G7M	1a	527	24/25	0.97	0.19	44,51,57,63	0
55	31H	1x	76	32/33	0.97	0.20	26,37,45,60	10
32	5MC	1a	1400	21/22	0.97	0.18	46,53,57,63	0
32	4OC	1a	1402	22/23	0.97	0.17	42,46,53,60	0
32	5MC	1a	1404	21/22	0.97	0.18	33,38,42,44	0
32	5MC	1a	1407	21/22	0.97	0.19	36,45,46,49	0
1	PSU	1A	1911	20/21	0.97	0.18	36,46,54,54	0
1	PSU	2A	1911	20/21	0.97	0.20	56,58,63,63	0
32	MA6	1a	1518	24/25	0.97	0.22	34,43,47,49	0
32	5MC	2a	1407	21/22	0.97	0.20	48,53,59,61	0
1	PSU	1A	1917	20/21	0.97	0.18	47,52,56,58	0
32	UR3	2a	1498	21/22	0.97	0.20	48,53,59,60	0
32	M2G	1a	966	25/26	0.97	0.17	46,53,62,64	0
1	5MC	1A	1942	21/22	0.97	0.19	32,37,41,42	0
55	5MC	1x	32	21/22	0.97	0.19	56,59,62,72	0
55	31H	2x	76	32/33	0.97	0.22	39,51,61,69	0
32	PSU	1a	516	20/21	0.97	0.15	44,56,61,64	0
1	PSU	2A	2605	20/21	0.97	0.21	33,40,46,47	0
32	MA6	1a	1519	24/25	0.98	0.21	36,43,48,52	0
1	OMC	1A	1920	21/22	0.98	0.20	38,47,50,54	0
1	5MC	1A	1962	21/22	0.98	0.19	28,36,41,47	0
32	UR3	1a	1498	21/22	0.98	0.22	37,40,43,55	0
1	OMG	1A	2251	24/25	0.98	0.19	22,26,30,32	0
1	OMG	2A	2251	24/25	0.98	0.18	37,43,49,57	0
1	8AH	2A	2503	24/25	0.98	0.23	35,41,45,50	0
1	OMU	1A	2552	21/22	0.98	0.19	27,30,35,37	0
1	5MU	1A	1939	21/22	0.98	0.18	26,32,34,39	0
1	PSU	1A	2605	20/21	0.98	0.19	25,29,32,33	0
1	5MU	2A	1939	21/22	0.98	0.20	34,40,46,47	0
1	8AH	1A	2503	24/25	0.99	0.20	14,24,29,30	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	1A	3516	1/1	0.42	0.34	79,79,79,79	0
56	MG	1A	3102	1/1	0.46	0.16	65,65,65,65	0
56	MG	1a	1771	1/1	0.47	0.14	78,78,78,78	0
56	MG	2A	3184	1/1	0.49	0.15	82,82,82,82	0
56	MG	2A	3455	1/1	0.49	0.21	69,69,69,69	0
56	MG	2A	3264	1/1	0.50	0.22	71,71,71,71	0
56	MG	2a	1748	1/1	0.50	0.30	96,96,96,96	0
56	MG	2w	104	1/1	0.50	0.22	79,79,79,79	0
56	MG	1a	1807	1/1	0.55	0.19	85,85,85,85	0
56	MG	1A	3494	1/1	0.55	0.18	69,69,69,69	0
56	MG	1a	1711	1/1	0.57	0.29	60,60,60,60	0
56	MG	2A	3227	1/1	0.57	0.44	69,69,69,69	0
56	MG	2A	3076	1/1	0.57	0.26	58,58,58,58	0
56	MG	1A	4009	1/1	0.58	0.11	75,75,75,75	0
56	MG	1U	209	1/1	0.58	0.29	54,54,54,54	0
56	MG	2A	3391	1/1	0.59	0.22	65,65,65,65	0
56	MG	1A	3724	1/1	0.59	0.13	63,63,63,63	0
56	MG	2A	3720	1/1	0.59	0.10	71,71,71,71	0
56	MG	2A	3291	1/1	0.59	0.27	68,68,68,68	0
56	MG	2A	3368	1/1	0.59	0.21	83,83,83,83	0
56	MG	2A	3292	1/1	0.60	0.21	75,75,75,75	0
56	MG	1A	3674	1/1	0.60	0.21	59,59,59,59	0
56	MG	2A	3122	1/1	0.60	0.14	65,65,65,65	0
56	MG	2A	3425	1/1	0.60	0.26	58,58,58,58	0
56	MG	2A	3371	1/1	0.62	0.14	67,67,67,67	0
56	MG	2A	3363	1/1	0.63	0.42	61,61,61,61	0
56	MG	2A	3815	1/1	0.63	0.18	63,63,63,63	0
56	MG	2A	3474	1/1	0.64	0.38	71,71,71,71	0
56	MG	2A	3585	1/1	0.64	0.24	73,73,73,73	0
56	MG	1A	3966	1/1	0.64	0.16	70,70,70,70	0
56	MG	2A	3013	1/1	0.65	0.32	59,59,59,59	0
56	MG	2a	1707	1/1	0.65	0.08	72,72,72,72	0
56	MG	2A	3783	1/1	0.65	0.19	55,55,55,55	0
56	MG	2A	3784	1/1	0.65	0.15	52,52,52,52	0
56	MG	2A	3084	1/1	0.66	0.29	58,58,58,58	0
56	MG	2A	3354	1/1	0.66	0.14	66,66,66,66	0
56	MG	2A	3469	1/1	0.66	0.12	68,68,68,68	0
56	MG	2a	1804	1/1	0.66	0.22	60,60,60,60	0
56	MG	1A	4015	1/1	0.66	0.19	51,51,51,51	0
56	MG	2a	1627	1/1	0.67	0.24	71,71,71,71	0
56	MG	2A	3110	1/1	0.68	0.09	71,71,71,71	0
56	MG	2A	3352	1/1	0.68	0.29	75,75,75,75	0
56	MG	1A	3715	1/1	0.68	0.19	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1796	1/1	0.68	0.22	70,70,70,70	0
56	MG	1a	1670	1/1	0.68	0.27	59,59,59,59	0
56	MG	2B	201	1/1	0.68	0.18	82,82,82,82	0
56	MG	2A	3238	1/1	0.69	0.26	53,53,53,53	0
56	MG	1A	3807	1/1	0.69	0.12	64,64,64,64	0
56	MG	1A	3428	1/1	0.69	0.22	58,58,58,58	0
56	MG	1A	3054	1/1	0.69	0.16	55,55,55,55	0
56	MG	2A	3315	1/1	0.69	0.33	78,78,78,78	0
56	MG	2A	3336	1/1	0.69	0.34	78,78,78,78	0
56	MG	2a	1655	1/1	0.69	0.23	67,67,67,67	0
56	MG	2A	3343	1/1	0.69	0.53	67,67,67,67	0
56	MG	2A	3209	1/1	0.69	0.12	74,74,74,74	0
56	MG	2A	3517	1/1	0.69	0.16	40,40,40,40	0
56	MG	1A	3141	1/1	0.69	0.16	43,43,43,43	0
56	MG	2a	1814	1/1	0.69	0.21	80,80,80,80	0
56	MG	2A	3593	1/1	0.69	0.12	74,74,74,74	0
56	MG	1A	3075	1/1	0.70	0.35	65,65,65,65	0
56	MG	2A	3217	1/1	0.70	0.30	69,69,69,69	0
56	MG	2a	1778	1/1	0.70	0.11	67,67,67,67	0
56	MG	2A	3019	1/1	0.70	0.20	66,66,66,66	0
56	MG	2B	206	1/1	0.70	0.20	65,65,65,65	0
56	MG	2A	3058	1/1	0.70	0.17	54,54,54,54	0
56	MG	1a	1607	1/1	0.70	0.28	60,60,60,60	0
56	MG	1A	3334	1/1	0.71	0.35	56,56,56,56	0
56	MG	2B	212	1/1	0.71	0.14	76,76,76,76	0
56	MG	2Z	301	1/1	0.71	0.20	77,77,77,77	0
56	MG	2a	1620	1/1	0.71	0.21	65,65,65,65	0
56	MG	2a	1622	1/1	0.71	0.19	73,73,73,73	0
56	MG	1A	3447	1/1	0.71	0.23	64,64,64,64	0
56	MG	1A	3827	1/1	0.71	0.22	51,51,51,51	0
56	MG	1A	3163	1/1	0.72	0.17	56,56,56,56	0
56	MG	2A	3275	1/1	0.72	0.48	70,70,70,70	0
56	MG	1A	3245	1/1	0.72	0.45	56,56,56,56	0
56	MG	2a	1738	1/1	0.72	0.16	71,71,71,71	0
56	MG	1A	3147	1/1	0.72	0.53	44,44,44,44	0
56	MG	2B	210	1/1	0.72	0.11	72,72,72,72	0
56	MG	2A	3297	1/1	0.72	0.19	62,62,62,62	0
56	MG	1D	312	1/1	0.72	0.31	66,66,66,66	0
56	MG	2A	3055	1/1	0.72	0.32	65,65,65,65	0
56	MG	2A	3339	1/1	0.72	0.21	71,71,71,71	0
59	ZN	14	102	1/1	0.72	0.16	134,134,134,134	0
56	MG	2A	3670	1/1	0.73	0.26	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3689	1/1	0.73	0.18	66,66,66,66	0
56	MG	2A	3700	1/1	0.73	0.26	60,60,60,60	0
56	MG	1Y	203	1/1	0.73	0.13	73,73,73,73	0
56	MG	2A	3083	1/1	0.73	0.29	61,61,61,61	0
56	MG	10	104	1/1	0.73	0.17	58,58,58,58	0
56	MG	2A	3787	1/1	0.73	0.15	61,61,61,61	0
56	MG	14	101	1/1	0.73	0.10	70,70,70,70	0
56	MG	1B	207	1/1	0.73	0.16	73,73,73,73	0
56	MG	1A	3828	1/1	0.73	0.22	63,63,63,63	0
56	MG	1A	3704	1/1	0.73	0.13	63,63,63,63	0
56	MG	2A	3067	1/1	0.73	0.23	60,60,60,60	0
56	MG	2A	3660	1/1	0.73	0.22	68,68,68,68	0
56	MG	1a	1635	1/1	0.74	0.09	75,75,75,75	0
56	MG	1A	3883	1/1	0.74	0.16	25,25,25,25	0
56	MG	2A	3304	1/1	0.74	0.28	62,62,62,62	0
56	MG	2A	3513	1/1	0.74	0.15	49,49,49,49	0
56	MG	1E	308	1/1	0.74	0.47	53,53,53,53	0
56	MG	1N	205	1/1	0.74	0.60	62,62,62,62	0
56	MG	1A	3725	1/1	0.74	0.29	60,60,60,60	0
56	MG	2A	3005	1/1	0.74	0.26	69,69,69,69	0
56	MG	2a	1635	1/1	0.74	0.28	69,69,69,69	0
56	MG	1A	3104	1/1	0.74	0.31	42,42,42,42	0
56	MG	1A	3362	1/1	0.74	0.26	53,53,53,53	0
56	MG	2A	3022	1/1	0.74	0.40	62,62,62,62	0
56	MG	2a	1743	1/1	0.74	0.16	66,66,66,66	0
56	MG	2A	3712	1/1	0.74	0.17	68,68,68,68	0
56	MG	1A	3459	1/1	0.74	0.22	63,63,63,63	0
56	MG	1a	1603	1/1	0.74	0.09	66,66,66,66	0
56	MG	2A	3061	1/1	0.74	0.16	61,61,61,61	0
56	MG	1B	221	1/1	0.74	0.19	67,67,67,67	0
56	MG	2A	3430	1/1	0.74	0.26	61,61,61,61	0
56	MG	2A	3823	1/1	0.74	0.15	47,47,47,47	0
56	MG	1A	3420	1/1	0.75	0.30	61,61,61,61	0
56	MG	2A	3419	1/1	0.75	0.41	62,62,62,62	0
56	MG	2A	3309	1/1	0.75	0.15	59,59,59,59	0
56	MG	1V	206	1/1	0.75	0.14	56,56,56,56	0
56	MG	2A	3781	1/1	0.75	0.13	77,77,77,77	0
56	MG	2A	3454	1/1	0.75	0.31	42,42,42,42	0
56	MG	2A	3316	1/1	0.75	0.28	61,61,61,61	0
56	MG	1A	4046	1/1	0.75	0.16	55,55,55,55	0
56	MG	1A	3081	1/1	0.75	0.17	51,51,51,51	0
56	MG	1A	3379	1/1	0.75	0.48	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3532	1/1	0.75	0.27	59,59,59,59	0
56	MG	1A	3587	1/1	0.75	0.34	54,54,54,54	0
56	MG	1A	3748	1/1	0.75	0.19	50,50,50,50	0
56	MG	1a	1657	1/1	0.75	0.12	64,64,64,64	0
56	MG	2A	3299	1/1	0.75	0.17	70,70,70,70	0
56	MG	1a	1789	1/1	0.76	0.17	61,61,61,61	0
56	MG	1A	3364	1/1	0.76	0.14	45,45,45,45	0
56	MG	1A	3414	1/1	0.76	0.42	47,47,47,47	0
56	MG	2a	1741	1/1	0.76	0.09	72,72,72,72	0
56	MG	1A	4069	1/1	0.76	0.55	71,71,71,71	0
56	MG	2A	3097	1/1	0.76	0.35	61,61,61,61	0
56	MG	1a	1706	1/1	0.76	0.22	60,60,60,60	0
56	MG	1A	3981	1/1	0.76	0.09	54,54,54,54	0
56	MG	1a	1729	1/1	0.76	0.15	65,65,65,65	0
56	MG	1a	1753	1/1	0.76	0.14	73,73,73,73	0
56	MG	2a	1821	1/1	0.76	0.26	81,81,81,81	0
56	MG	2A	3369	1/1	0.76	0.24	69,69,69,69	0
56	MG	1A	3781	1/1	0.76	0.15	75,75,75,75	0
56	MG	1B	225	1/1	0.77	0.11	58,58,58,58	0
56	MG	1A	3180	1/1	0.77	0.21	50,50,50,50	0
56	MG	1A	4045	1/1	0.77	0.15	44,44,44,44	0
56	MG	1A	3446	1/1	0.77	0.20	63,63,63,63	0
56	MG	2A	3473	1/1	0.77	0.19	63,63,63,63	0
56	MG	2a	1713	1/1	0.77	0.07	67,67,67,67	0
56	MG	2A	3124	1/1	0.77	0.25	59,59,59,59	0
56	MG	1A	3529	1/1	0.77	0.25	57,57,57,57	0
56	MG	1A	4006	1/1	0.77	0.11	47,47,47,47	0
56	MG	1A	3861	1/1	0.77	0.08	37,37,37,37	0
56	MG	2B	202	1/1	0.77	0.36	69,69,69,69	0
56	MG	2a	1794	1/1	0.77	0.25	65,65,65,65	0
56	MG	1y	4301	1/1	0.77	0.16	63,63,63,63	0
56	MG	2A	3393	1/1	0.77	0.25	73,73,73,73	0
56	MG	2A	3396	1/1	0.77	0.12	74,74,74,74	0
56	MG	1a	1672	1/1	0.77	0.16	62,62,62,62	0
56	MG	2a	1617	1/1	0.77	0.34	70,70,70,70	0
56	MG	2A	3261	1/1	0.77	0.34	63,63,63,63	0
56	MG	1A	3539	1/1	0.78	0.18	63,63,63,63	0
56	MG	2A	3321	1/1	0.78	0.35	62,62,62,62	0
56	MG	2a	1609	1/1	0.78	0.15	68,68,68,68	0
56	MG	2a	1611	1/1	0.78	0.18	75,75,75,75	0
56	MG	2A	3201	1/1	0.78	0.52	70,70,70,70	0
56	MG	2A	3032	1/1	0.78	0.23	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3053	1/1	0.78	0.26	61,61,61,61	0
56	MG	1a	1722	1/1	0.78	0.13	71,71,71,71	0
56	MG	1A	3542	1/1	0.78	0.23	63,63,63,63	0
56	MG	2a	1653	1/1	0.78	0.21	74,74,74,74	0
56	MG	2A	3355	1/1	0.78	0.12	64,64,64,64	0
56	MG	2a	1701	1/1	0.78	0.22	69,69,69,69	0
56	MG	1A	3385	1/1	0.78	0.17	64,64,64,64	0
56	MG	1A	3839	1/1	0.78	0.14	58,58,58,58	0
56	MG	2A	3272	1/1	0.78	0.35	73,73,73,73	0
56	MG	1E	309	1/1	0.78	0.14	79,79,79,79	0
56	MG	2A	3281	1/1	0.78	0.67	67,67,67,67	0
56	MG	1a	1641	1/1	0.78	0.14	63,63,63,63	0
56	MG	1w	101	1/1	0.78	0.17	55,55,55,55	0
56	MG	1A	3851	1/1	0.78	0.08	47,47,47,47	0
56	MG	2A	3298	1/1	0.78	0.24	58,58,58,58	0
56	MG	1A	3661	1/1	0.78	0.18	29,29,29,29	0
56	MG	1A	3488	1/1	0.78	0.33	62,62,62,62	0
56	MG	1A	3678	1/1	0.78	0.11	67,67,67,67	0
56	MG	2A	3468	1/1	0.78	0.25	55,55,55,55	0
56	MG	2A	3157	1/1	0.78	0.18	64,64,64,64	0
56	MG	2A	3515	1/1	0.79	0.19	37,37,37,37	0
56	MG	20	101	1/1	0.79	0.46	64,64,64,64	0
56	MG	2a	1607	1/1	0.79	0.30	69,69,69,69	0
56	MG	1A	3130	1/1	0.79	0.23	38,38,38,38	0
56	MG	1a	1714	1/1	0.79	0.28	64,64,64,64	0
56	MG	1A	4036	1/1	0.79	0.18	75,75,75,75	0
56	MG	1A	3084	1/1	0.79	0.33	39,39,39,39	0
56	MG	1A	3854	1/1	0.79	0.23	56,56,56,56	0
56	MG	1A	3745	1/1	0.79	0.09	46,46,46,46	0
56	MG	2a	1628	1/1	0.79	0.45	61,61,61,61	0
56	MG	2A	3389	1/1	0.79	0.22	70,70,70,70	0
56	MG	1A	3476	1/1	0.79	0.32	61,61,61,61	0
56	MG	2A	3107	1/1	0.79	0.16	70,70,70,70	0
56	MG	2a	1690	1/1	0.79	0.15	79,79,79,79	0
56	MG	2A	3766	1/1	0.79	0.12	51,51,51,51	0
56	MG	2A	3767	1/1	0.79	0.13	69,69,69,69	0
56	MG	1A	3536	1/1	0.79	0.17	61,61,61,61	0
56	MG	2a	1717	1/1	0.79	0.30	76,76,76,76	0
56	MG	1A	3689	1/1	0.79	0.14	33,33,33,33	0
56	MG	1a	1639	1/1	0.79	0.10	54,54,54,54	0
56	MG	1a	1640	1/1	0.79	0.16	72,72,72,72	0
56	MG	2A	3803	1/1	0.79	0.14	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3176	1/1	0.79	0.20	74,74,74,74	0
56	MG	1A	4005	1/1	0.79	0.21	73,73,73,73	0
56	MG	1A	3142	1/1	0.79	0.21	50,50,50,50	0
56	MG	1A	3404	1/1	0.79	0.46	51,51,51,51	0
56	MG	1F	306	1/1	0.79	0.12	37,37,37,37	0
56	MG	1a	1704	1/1	0.79	0.28	59,59,59,59	0
56	MG	1A	4014	1/1	0.79	0.11	42,42,42,42	0
56	MG	2R	201	1/1	0.79	0.25	62,62,62,62	0
56	MG	1a	1637	1/1	0.80	0.07	65,65,65,65	0
56	MG	2A	3780	1/1	0.80	0.12	70,70,70,70	0
56	MG	2A	3028	1/1	0.80	0.24	50,50,50,50	0
56	MG	2a	1626	1/1	0.80	0.22	68,68,68,68	0
56	MG	1A	3576	1/1	0.80	0.29	53,53,53,53	0
56	MG	1a	1708	1/1	0.80	0.30	70,70,70,70	0
56	MG	2a	1633	1/1	0.80	0.17	67,67,67,67	0
56	MG	2A	3379	1/1	0.80	0.31	71,71,71,71	0
56	MG	2a	1646	1/1	0.80	0.14	63,63,63,63	0
56	MG	2A	3788	1/1	0.80	0.10	69,69,69,69	0
56	MG	2A	3243	1/1	0.80	0.15	72,72,72,72	0
56	MG	2a	1659	1/1	0.80	0.12	69,69,69,69	0
56	MG	2A	3120	1/1	0.80	0.14	60,60,60,60	0
56	MG	2A	3822	1/1	0.80	0.21	52,52,52,52	0
56	MG	2A	3547	1/1	0.80	0.31	53,53,53,53	0
56	MG	2A	3567	1/1	0.80	0.18	68,68,68,68	0
56	MG	1A	3537	1/1	0.80	0.22	60,60,60,60	0
56	MG	1w	105	1/1	0.80	0.28	86,86,86,86	0
56	MG	2A	3144	1/1	0.80	0.56	49,49,49,49	0
56	MG	1A	3700	1/1	0.80	0.12	52,52,52,52	0
56	MG	2D	301	1/1	0.80	0.29	49,49,49,49	0
56	MG	1A	4092	1/1	0.80	0.45	45,45,45,45	0
56	MG	2a	1786	1/1	0.80	0.12	71,71,71,71	0
56	MG	2W	203	1/1	0.80	0.53	58,58,58,58	0
56	MG	2A	3432	1/1	0.80	0.49	62,62,62,62	0
56	MG	2A	3702	1/1	0.80	0.10	49,49,49,49	0
56	MG	27	102	1/1	0.80	0.37	58,58,58,58	0
56	MG	1a	1623	1/1	0.80	0.21	68,68,68,68	0
56	MG	1A	3931	1/1	0.80	0.33	37,37,37,37	0
56	MG	2x	102	1/1	0.80	0.40	67,67,67,67	0
56	MG	2y	105	1/1	0.80	0.19	85,85,85,85	0
56	MG	2A	3458	1/1	0.80	0.43	62,62,62,62	0
56	MG	1A	3088	1/1	0.81	0.43	50,50,50,50	0
56	MG	1A	3578	1/1	0.81	0.23	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3259	1/1	0.81	0.26	51,51,51,51	0
56	MG	1A	3500	1/1	0.81	0.38	63,63,63,63	0
56	MG	1A	3823	1/1	0.81	0.14	62,62,62,62	0
56	MG	2A	3562	1/1	0.81	0.24	49,49,49,49	0
56	MG	2A	3327	1/1	0.81	0.21	52,52,52,52	0
56	MG	1a	1790	1/1	0.81	0.10	54,54,54,54	0
56	MG	1A	4022	1/1	0.81	0.12	45,45,45,45	0
56	MG	2A	3627	1/1	0.81	0.16	60,60,60,60	0
56	MG	1d	301	1/1	0.81	0.34	68,68,68,68	0
56	MG	2A	3665	1/1	0.81	0.20	71,71,71,71	0
56	MG	1A	3208	1/1	0.81	0.20	63,63,63,63	0
56	MG	1w	104	1/1	0.81	0.28	67,67,67,67	0
56	MG	1A	3676	1/1	0.81	0.12	52,52,52,52	0
56	MG	2A	3357	1/1	0.81	0.27	64,64,64,64	0
56	MG	2A	3704	1/1	0.81	0.12	63,63,63,63	0
56	MG	1x	109	1/1	0.81	0.29	65,65,65,65	0
56	MG	2A	3202	1/1	0.81	0.50	68,68,68,68	0
56	MG	2a	1656	1/1	0.81	0.11	76,76,76,76	0
56	MG	2A	3758	1/1	0.81	0.21	55,55,55,55	0
56	MG	1A	3434	1/1	0.81	0.22	57,57,57,57	0
56	MG	2A	3370	1/1	0.81	0.15	67,67,67,67	0
56	MG	2A	3210	1/1	0.81	0.22	53,53,53,53	0
56	MG	1A	3684	1/1	0.81	0.16	26,26,26,26	0
56	MG	2A	3222	1/1	0.81	0.19	69,69,69,69	0
56	MG	2a	1730	1/1	0.81	0.21	68,68,68,68	0
56	MG	2a	1731	1/1	0.81	0.32	67,67,67,67	0
56	MG	2A	3006	1/1	0.81	0.31	78,78,78,78	0
56	MG	1A	3335	1/1	0.81	0.16	55,55,55,55	0
56	MG	1A	3391	1/1	0.81	0.28	60,60,60,60	0
56	MG	2A	3791	1/1	0.81	0.24	48,48,48,48	0
56	MG	1A	3360	1/1	0.81	0.14	65,65,65,65	0
56	MG	1a	1660	1/1	0.81	0.13	71,71,71,71	0
56	MG	1A	3538	1/1	0.81	0.20	47,47,47,47	0
56	MG	1A	3942	1/1	0.81	0.16	46,46,46,46	0
56	MG	2A	3845	1/1	0.81	0.33	66,66,66,66	0
56	MG	1a	1697	1/1	0.81	0.24	64,64,64,64	0
56	MG	1A	3953	1/1	0.81	0.17	44,44,44,44	0
56	MG	2f	202	1/1	0.81	0.18	71,71,71,71	0
56	MG	2w	101	1/1	0.81	0.12	79,79,79,79	0
56	MG	1A	3957	1/1	0.81	0.40	63,63,63,63	0
56	MG	1A	3467	1/1	0.81	0.17	52,52,52,52	0
56	MG	1A	3410	1/1	0.81	0.18	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	4001	1/1	0.81	0.12	45,45,45,45	0
56	MG	1a	1668	1/1	0.82	0.15	62,62,62,62	0
56	MG	2A	3332	1/1	0.82	0.19	63,63,63,63	0
56	MG	1A	3313	1/1	0.82	0.16	51,51,51,51	0
56	MG	2a	1614	1/1	0.82	0.20	54,54,54,54	0
56	MG	1A	3965	1/1	0.82	0.08	64,64,64,64	0
56	MG	1a	1682	1/1	0.82	0.16	63,63,63,63	0
56	MG	2A	3200	1/1	0.82	0.38	70,70,70,70	0
56	MG	13	103	1/1	0.82	0.14	52,52,52,52	0
56	MG	1A	3101	1/1	0.82	0.36	68,68,68,68	0
56	MG	15	105	1/1	0.82	0.74	55,55,55,55	0
56	MG	17	106	1/1	0.82	0.15	49,49,49,49	0
56	MG	1a	1709	1/1	0.82	0.15	70,70,70,70	0
56	MG	1A	3087	1/1	0.82	0.57	38,38,38,38	0
56	MG	1A	3224	1/1	0.82	0.23	40,40,40,40	0
56	MG	2A	3228	1/1	0.82	0.21	60,60,60,60	0
56	MG	2A	3231	1/1	0.82	0.25	70,70,70,70	0
56	MG	1a	1616	1/1	0.82	0.15	50,50,50,50	0
56	MG	2a	1663	1/1	0.82	0.24	54,54,54,54	0
56	MG	1A	3002	1/1	0.82	0.21	46,46,46,46	0
56	MG	2A	3254	1/1	0.82	0.23	71,71,71,71	0
56	MG	1a	1745	1/1	0.82	0.12	62,62,62,62	0
56	MG	1a	1749	1/1	0.82	0.17	68,68,68,68	0
56	MG	2A	3069	1/1	0.82	0.21	69,69,69,69	0
56	MG	1A	3250	1/1	0.82	0.16	67,67,67,67	0
56	MG	2A	3279	1/1	0.82	0.30	56,56,56,56	0
56	MG	2A	3444	1/1	0.82	0.57	65,65,65,65	0
56	MG	2A	3280	1/1	0.82	0.20	63,63,63,63	0
56	MG	1A	3658	1/1	0.82	0.17	25,25,25,25	0
56	MG	2A	3843	1/1	0.82	0.31	62,62,62,62	0
56	MG	1A	3440	1/1	0.82	0.34	43,43,43,43	0
56	MG	1A	3095	1/1	0.82	0.07	71,71,71,71	0
56	MG	2a	1789	1/1	0.82	0.22	78,78,78,78	0
56	MG	2A	3293	1/1	0.82	0.14	55,55,55,55	0
56	MG	2A	3106	1/1	0.82	0.22	68,68,68,68	0
56	MG	2a	1799	1/1	0.82	0.18	73,73,73,73	0
56	MG	1A	3264	1/1	0.82	0.22	48,48,48,48	0
56	MG	2A	3510	1/1	0.82	0.18	61,61,61,61	0
56	MG	1A	3948	1/1	0.82	0.10	41,41,41,41	0
56	MG	2F	306	1/1	0.82	0.12	53,53,53,53	0
56	MG	2v	102	1/1	0.82	0.24	82,82,82,82	0
56	MG	2A	3111	1/1	0.82	0.16	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1f	202	1/1	0.82	0.23	63,63,63,63	0
56	MG	1A	3287	1/1	0.82	0.10	45,45,45,45	0
56	MG	1a	1661	1/1	0.82	0.14	63,63,63,63	0
56	MG	2A	3134	1/1	0.82	0.15	54,54,54,54	0
56	MG	2A	3015	1/1	0.83	0.23	69,69,69,69	0
56	MG	2a	1603	1/1	0.83	0.15	78,78,78,78	0
56	MG	1a	1705	1/1	0.83	0.23	59,59,59,59	0
56	MG	1A	3479	1/1	0.83	0.32	45,45,45,45	0
56	MG	1A	3944	1/1	0.83	0.19	69,69,69,69	0
56	MG	1A	3790	1/1	0.83	0.11	41,41,41,41	0
56	MG	18	104	1/1	0.83	0.12	53,53,53,53	0
56	MG	2a	1618	1/1	0.83	0.20	69,69,69,69	0
56	MG	2A	3676	1/1	0.83	0.14	74,74,74,74	0
56	MG	2a	1621	1/1	0.83	0.13	82,82,82,82	0
56	MG	1A	4075	1/1	0.83	0.17	61,61,61,61	0
56	MG	2A	3230	1/1	0.83	0.30	63,63,63,63	0
56	MG	2A	3365	1/1	0.83	0.29	74,74,74,74	0
56	MG	1A	3635	1/1	0.83	0.14	54,54,54,54	0
56	MG	1A	3393	1/1	0.83	0.38	61,61,61,61	0
56	MG	1a	1738	1/1	0.83	0.10	60,60,60,60	0
56	MG	2a	1643	1/1	0.83	0.28	70,70,70,70	0
56	MG	2A	3733	1/1	0.83	0.24	53,53,53,53	0
56	MG	2a	1650	1/1	0.83	0.11	79,79,79,79	0
56	MG	1A	3824	1/1	0.83	0.14	58,58,58,58	0
56	MG	1B	224	1/1	0.83	0.18	62,62,62,62	0
56	MG	1A	3331	1/1	0.83	0.11	54,54,54,54	0
56	MG	2A	3265	1/1	0.83	0.25	59,59,59,59	0
56	MG	2A	3269	1/1	0.83	0.29	60,60,60,60	0
56	MG	2A	3782	1/1	0.83	0.27	65,65,65,65	0
56	MG	1A	3028	1/1	0.83	0.17	63,63,63,63	0
56	MG	1a	1782	1/1	0.83	0.20	57,57,57,57	0
56	MG	1A	3438	1/1	0.83	0.36	45,45,45,45	0
56	MG	1A	3728	1/1	0.83	0.11	60,60,60,60	0
56	MG	1A	3732	1/1	0.83	0.25	24,24,24,24	0
56	MG	1a	1658	1/1	0.83	0.18	63,63,63,63	0
56	MG	1A	3742	1/1	0.83	0.17	41,41,41,41	0
56	MG	1U	203	1/1	0.83	0.24	38,38,38,38	0
56	MG	1A	3471	1/1	0.83	0.23	52,52,52,52	0
56	MG	2A	3833	1/1	0.83	0.34	65,65,65,65	0
56	MG	1A	3890	1/1	0.83	0.12	48,48,48,48	0
56	MG	1x	104	1/1	0.83	0.22	60,60,60,60	0
56	MG	2A	3470	1/1	0.83	0.24	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3156	1/1	0.83	0.19	59,59,59,59	0
56	MG	1X	102	1/1	0.83	0.29	39,39,39,39	0
56	MG	2A	3500	1/1	0.83	0.22	35,35,35,35	0
56	MG	2A	3312	1/1	0.83	0.20	57,57,57,57	0
56	MG	1A	3922	1/1	0.83	0.06	65,65,65,65	0
56	MG	2E	302	1/1	0.83	0.48	69,69,69,69	0
56	MG	2A	3181	1/1	0.83	0.10	67,67,67,67	0
56	MG	2G	201	1/1	0.83	0.09	67,67,67,67	0
56	MG	2N	201	1/1	0.83	0.61	75,75,75,75	0
56	MG	2A	3318	1/1	0.83	0.26	66,66,66,66	0
56	MG	1a	1686	1/1	0.83	0.21	66,66,66,66	0
56	MG	1A	4035	1/1	0.83	0.08	65,65,65,65	0
56	MG	1A	3187	1/1	0.83	0.17	47,47,47,47	0
56	MG	2D	307	1/1	0.84	0.32	49,49,49,49	0
56	MG	1A	3959	1/1	0.84	0.19	66,66,66,66	0
56	MG	2F	301	1/1	0.84	0.19	54,54,54,54	0
56	MG	1B	227	1/1	0.84	0.18	41,41,41,41	0
56	MG	1a	1793	1/1	0.84	0.12	77,77,77,77	0
56	MG	1a	1797	1/1	0.84	0.08	76,76,76,76	0
56	MG	1a	1802	1/1	0.84	0.09	60,60,60,60	0
56	MG	2U	201	1/1	0.84	0.20	60,60,60,60	0
56	MG	2A	3475	1/1	0.84	0.24	51,51,51,51	0
56	MG	2A	3487	1/1	0.84	0.30	61,61,61,61	0
56	MG	1A	3300	1/1	0.84	0.20	56,56,56,56	0
56	MG	25	101	1/1	0.84	0.26	63,63,63,63	0
56	MG	25	106	1/1	0.84	0.20	69,69,69,69	0
56	MG	1A	3310	1/1	0.84	0.20	63,63,63,63	0
56	MG	28	101	1/1	0.84	0.15	58,58,58,58	0
56	MG	28	103	1/1	0.84	0.20	54,54,54,54	0
56	MG	1A	3198	1/1	0.84	0.19	43,43,43,43	0
56	MG	2A	3305	1/1	0.84	0.19	58,58,58,58	0
56	MG	1A	3991	1/1	0.84	0.06	72,72,72,72	0
56	MG	1F	310	1/1	0.84	0.22	52,52,52,52	0
56	MG	2A	3314	1/1	0.84	0.14	63,63,63,63	0
56	MG	1A	3545	1/1	0.84	0.32	61,61,61,61	0
56	MG	2A	3172	1/1	0.84	0.51	51,51,51,51	0
56	MG	1A	3546	1/1	0.84	0.24	43,43,43,43	0
56	MG	2A	3599	1/1	0.84	0.18	35,35,35,35	0
56	MG	2A	3600	1/1	0.84	0.15	44,44,44,44	0
56	MG	2A	3177	1/1	0.84	0.38	56,56,56,56	0
56	MG	2A	3629	1/1	0.84	0.15	50,50,50,50	0
56	MG	1A	3041	1/1	0.84	0.26	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3182	1/1	0.84	0.12	76,76,76,76	0
56	MG	2A	3667	1/1	0.84	0.16	44,44,44,44	0
56	MG	1A	3015	1/1	0.84	0.23	38,38,38,38	0
56	MG	2A	3001	1/1	0.84	0.11	54,54,54,54	0
56	MG	2A	3678	1/1	0.84	0.28	60,60,60,60	0
56	MG	2A	3341	1/1	0.84	0.18	81,81,81,81	0
56	MG	1A	3873	1/1	0.84	0.20	26,26,26,26	0
56	MG	2A	3344	1/1	0.84	0.17	67,67,67,67	0
56	MG	1A	3270	1/1	0.84	0.14	44,44,44,44	0
56	MG	1A	3590	1/1	0.84	0.21	60,60,60,60	0
56	MG	1A	3897	1/1	0.84	0.14	52,52,52,52	0
56	MG	2A	3213	1/1	0.84	0.12	60,60,60,60	0
56	MG	1A	3401	1/1	0.84	0.19	49,49,49,49	0
56	MG	2a	1708	1/1	0.84	0.17	60,60,60,60	0
56	MG	1A	3929	1/1	0.84	0.13	62,62,62,62	0
56	MG	2A	3025	1/1	0.84	0.17	57,57,57,57	0
56	MG	2a	1727	1/1	0.84	0.20	55,55,55,55	0
56	MG	1A	3647	1/1	0.84	0.15	51,51,51,51	0
56	MG	1A	3938	1/1	0.84	0.15	63,63,63,63	0
56	MG	2A	3043	1/1	0.84	0.19	66,66,66,66	0
56	MG	2A	3374	1/1	0.84	0.30	65,65,65,65	0
56	MG	2A	3234	1/1	0.84	0.26	63,63,63,63	0
56	MG	2A	3380	1/1	0.84	0.14	56,56,56,56	0
56	MG	2a	1769	1/1	0.84	0.25	57,57,57,57	0
56	MG	2a	1775	1/1	0.84	0.11	73,73,73,73	0
56	MG	2A	3045	1/1	0.84	0.18	58,58,58,58	0
56	MG	1A	3524	1/1	0.84	0.28	32,32,32,32	0
56	MG	1a	1605	1/1	0.84	0.11	67,67,67,67	0
56	MG	1a	1737	1/1	0.84	0.17	59,59,59,59	0
56	MG	2A	3821	1/1	0.84	0.20	45,45,45,45	0
56	MG	1A	3336	1/1	0.84	0.12	37,37,37,37	0
56	MG	1B	202	1/1	0.84	0.31	45,45,45,45	0
56	MG	2A	3426	1/1	0.84	0.09	62,62,62,62	0
56	MG	1A	3405	1/1	0.84	0.15	51,51,51,51	0
56	MG	2A	3270	1/1	0.84	0.13	59,59,59,59	0
56	MG	2A	3442	1/1	0.84	0.35	72,72,72,72	0
56	MG	1B	212	1/1	0.84	0.31	56,56,56,56	0
56	MG	2A	3446	1/1	0.84	0.22	61,61,61,61	0
56	MG	1a	1770	1/1	0.84	0.06	71,71,71,71	0
56	MG	1A	3461	1/1	0.84	0.37	50,50,50,50	0
56	MG	1A	3138	1/1	0.84	0.27	45,45,45,45	0
56	MG	2A	3340	1/1	0.85	0.27	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3487	1/1	0.85	0.32	60,60,60,60	0
56	MG	25	102	1/1	0.85	0.27	50,50,50,50	0
56	MG	1B	214	1/1	0.85	0.25	56,56,56,56	0
56	MG	1B	215	1/1	0.85	0.10	68,68,68,68	0
56	MG	1A	3656	1/1	0.85	0.13	40,40,40,40	0
56	MG	1A	3858	1/1	0.85	0.09	35,35,35,35	0
56	MG	2A	3630	1/1	0.85	0.19	55,55,55,55	0
56	MG	2a	1605	1/1	0.85	0.28	67,67,67,67	0
56	MG	2A	3659	1/1	0.85	0.25	58,58,58,58	0
56	MG	2A	3236	1/1	0.85	0.13	46,46,46,46	0
56	MG	2a	1610	1/1	0.85	0.09	64,64,64,64	0
56	MG	2A	3074	1/1	0.85	0.16	61,61,61,61	0
56	MG	2A	3360	1/1	0.85	0.18	57,57,57,57	0
56	MG	2A	3361	1/1	0.85	0.17	66,66,66,66	0
56	MG	1A	3970	1/1	0.85	0.22	62,62,62,62	0
56	MG	2A	3250	1/1	0.85	0.28	65,65,65,65	0
56	MG	2A	3078	1/1	0.85	0.17	62,62,62,62	0
56	MG	1A	3978	1/1	0.85	0.16	38,38,38,38	0
56	MG	2A	3262	1/1	0.85	0.17	56,56,56,56	0
56	MG	1A	3449	1/1	0.85	0.32	48,48,48,48	0
56	MG	2A	3096	1/1	0.85	0.10	56,56,56,56	0
56	MG	1A	3492	1/1	0.85	0.21	48,48,48,48	0
56	MG	1A	3993	1/1	0.85	0.16	54,54,54,54	0
56	MG	2a	1636	1/1	0.85	0.23	61,61,61,61	0
56	MG	2A	3746	1/1	0.85	0.10	59,59,59,59	0
56	MG	1A	3026	1/1	0.85	0.42	41,41,41,41	0
56	MG	2A	3273	1/1	0.85	0.10	72,72,72,72	0
56	MG	1e	201	1/1	0.85	0.29	59,59,59,59	0
56	MG	2A	3777	1/1	0.85	0.17	68,68,68,68	0
56	MG	1e	202	1/1	0.85	0.13	64,64,64,64	0
56	MG	1A	3299	1/1	0.85	0.28	55,55,55,55	0
56	MG	1F	314	1/1	0.85	0.19	65,65,65,65	0
56	MG	2a	1672	1/1	0.85	0.41	63,63,63,63	0
56	MG	2A	3283	1/1	0.85	0.39	57,57,57,57	0
56	MG	2a	1691	1/1	0.85	0.25	65,65,65,65	0
56	MG	2a	1695	1/1	0.85	0.09	57,57,57,57	0
56	MG	2A	3290	1/1	0.85	0.31	68,68,68,68	0
56	MG	2a	1702	1/1	0.85	0.17	62,62,62,62	0
56	MG	1a	1674	1/1	0.85	0.20	62,62,62,62	0
56	MG	1A	3779	1/1	0.85	0.09	46,46,46,46	0
56	MG	1A	3921	1/1	0.85	0.14	54,54,54,54	0
56	MG	1A	3512	1/1	0.85	0.27	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3805	1/1	0.85	0.06	66,66,66,66	0
56	MG	1A	3928	1/1	0.85	0.07	57,57,57,57	0
56	MG	1A	3466	1/1	0.85	0.19	39,39,39,39	0
56	MG	2a	1732	1/1	0.85	0.10	62,62,62,62	0
56	MG	2a	1735	1/1	0.85	0.11	59,59,59,59	0
56	MG	2A	3456	1/1	0.85	0.09	67,67,67,67	0
56	MG	2a	1740	1/1	0.85	0.18	62,62,62,62	0
56	MG	2A	3303	1/1	0.85	0.14	48,48,48,48	0
56	MG	2A	3461	1/1	0.85	0.33	72,72,72,72	0
56	MG	1A	4023	1/1	0.85	0.17	40,40,40,40	0
56	MG	2a	1762	1/1	0.85	0.24	70,70,70,70	0
56	MG	2a	1767	1/1	0.85	0.26	59,59,59,59	0
56	MG	1A	3217	1/1	0.85	0.21	53,53,53,53	0
56	MG	2A	3308	1/1	0.85	0.26	61,61,61,61	0
56	MG	1A	3935	1/1	0.85	0.11	66,66,66,66	0
56	MG	1A	3821	1/1	0.85	0.18	60,60,60,60	0
56	MG	1A	3115	1/1	0.85	0.57	40,40,40,40	0
56	MG	2a	1791	1/1	0.85	0.12	69,69,69,69	0
56	MG	2a	1792	1/1	0.85	0.19	68,68,68,68	0
56	MG	2A	3480	1/1	0.85	0.13	67,67,67,67	0
56	MG	1a	1718	1/1	0.85	0.19	58,58,58,58	0
56	MG	1A	3339	1/1	0.85	0.21	48,48,48,48	0
56	MG	1A	4072	1/1	0.85	0.10	60,60,60,60	0
56	MG	2A	3319	1/1	0.85	0.21	61,61,61,61	0
56	MG	2A	3030	1/1	0.85	0.19	61,61,61,61	0
56	MG	1A	3945	1/1	0.85	0.18	41,41,41,41	0
56	MG	1A	3705	1/1	0.85	0.31	64,64,64,64	0
56	MG	2P	201	1/1	0.85	0.18	63,63,63,63	0
56	MG	2w	102	1/1	0.85	0.21	82,82,82,82	0
56	MG	1A	3627	1/1	0.85	0.12	28,28,28,28	0
56	MG	1A	3119	1/1	0.85	0.19	36,36,36,36	0
56	MG	2y	101	1/1	0.85	0.17	74,74,74,74	0
56	MG	2A	3578	1/1	0.85	0.22	75,75,75,75	0
56	MG	2A	3584	1/1	0.85	0.10	50,50,50,50	0
56	MG	2A	3047	1/1	0.86	0.17	39,39,39,39	0
56	MG	2F	304	1/1	0.86	0.16	61,61,61,61	0
56	MG	1A	3297	1/1	0.86	0.15	43,43,43,43	0
56	MG	1B	203	1/1	0.86	0.20	50,50,50,50	0
56	MG	2A	3471	1/1	0.86	0.19	62,62,62,62	0
56	MG	1B	204	1/1	0.86	0.24	56,56,56,56	0
56	MG	1A	3376	1/1	0.86	0.48	39,39,39,39	0
56	MG	2R	203	1/1	0.86	0.27	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3285	1/1	0.86	0.17	64,64,64,64	0
56	MG	2A	3479	1/1	0.86	0.14	47,47,47,47	0
56	MG	2A	3065	1/1	0.86	0.10	67,67,67,67	0
56	MG	1A	3298	1/1	0.86	0.18	39,39,39,39	0
56	MG	2A	3495	1/1	0.86	0.11	62,62,62,62	0
56	MG	1A	3448	1/1	0.86	0.20	47,47,47,47	0
56	MG	1A	3940	1/1	0.86	0.14	54,54,54,54	0
56	MG	1A	3230	1/1	0.86	0.23	54,54,54,54	0
56	MG	1A	3738	1/1	0.86	0.11	63,63,63,63	0
56	MG	1A	3231	1/1	0.86	0.39	57,57,57,57	0
56	MG	2A	3529	1/1	0.86	0.21	42,42,42,42	0
56	MG	2A	3538	1/1	0.86	0.21	40,40,40,40	0
56	MG	2A	3546	1/1	0.86	0.30	40,40,40,40	0
56	MG	1B	226	1/1	0.86	0.15	65,65,65,65	0
56	MG	2A	3548	1/1	0.86	0.21	61,61,61,61	0
56	MG	2A	3558	1/1	0.86	0.14	62,62,62,62	0
56	MG	1A	3241	1/1	0.86	0.78	47,47,47,47	0
56	MG	2a	1615	1/1	0.86	0.06	73,73,73,73	0
56	MG	1B	228	1/1	0.86	0.13	37,37,37,37	0
56	MG	2A	3307	1/1	0.86	0.11	70,70,70,70	0
56	MG	2A	3582	1/1	0.86	0.10	65,65,65,65	0
56	MG	2A	3099	1/1	0.86	0.18	57,57,57,57	0
56	MG	1a	1719	1/1	0.86	0.07	58,58,58,58	0
56	MG	1a	1720	1/1	0.86	0.32	73,73,73,73	0
56	MG	1D	306	1/1	0.86	0.19	38,38,38,38	0
56	MG	1A	3463	1/1	0.86	0.13	57,57,57,57	0
56	MG	2A	3623	1/1	0.86	0.17	39,39,39,39	0
56	MG	1A	3956	1/1	0.86	0.20	64,64,64,64	0
56	MG	1A	3183	1/1	0.86	0.07	72,72,72,72	0
56	MG	2a	1638	1/1	0.86	0.23	72,72,72,72	0
56	MG	1A	3579	1/1	0.86	0.21	42,42,42,42	0
56	MG	2A	3633	1/1	0.86	0.20	52,52,52,52	0
56	MG	2A	3133	1/1	0.86	0.19	61,61,61,61	0
56	MG	1A	3963	1/1	0.86	0.14	64,64,64,64	0
56	MG	1A	3964	1/1	0.86	0.14	29,29,29,29	0
56	MG	1A	3784	1/1	0.86	0.23	47,47,47,47	0
56	MG	1O	201	1/1	0.86	0.18	56,56,56,56	0
56	MG	2A	3164	1/1	0.86	0.22	65,65,65,65	0
56	MG	1A	3584	1/1	0.86	0.21	52,52,52,52	0
56	MG	2a	1688	1/1	0.86	0.25	53,53,53,53	0
56	MG	2A	3680	1/1	0.86	0.20	56,56,56,56	0
56	MG	2A	3681	1/1	0.86	0.20	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3175	1/1	0.86	0.26	48,48,48,48	0
56	MG	2a	1700	1/1	0.86	0.14	48,48,48,48	0
56	MG	2A	3699	1/1	0.86	0.16	62,62,62,62	0
56	MG	1A	3968	1/1	0.86	0.14	71,71,71,71	0
56	MG	1A	3797	1/1	0.86	0.15	23,23,23,23	0
56	MG	1A	3972	1/1	0.86	0.11	54,54,54,54	0
56	MG	2a	1710	1/1	0.86	0.13	76,76,76,76	0
56	MG	2A	3711	1/1	0.86	0.16	58,58,58,58	0
56	MG	1A	3586	1/1	0.86	0.21	60,60,60,60	0
56	MG	2A	3719	1/1	0.86	0.07	66,66,66,66	0
56	MG	1Z	302	1/1	0.86	0.16	72,72,72,72	0
56	MG	1A	3819	1/1	0.86	0.16	39,39,39,39	0
56	MG	2A	3740	1/1	0.86	0.15	58,58,58,58	0
56	MG	2a	1733	1/1	0.86	0.24	68,68,68,68	0
56	MG	11	104	1/1	0.86	0.12	43,43,43,43	0
56	MG	1A	3249	1/1	0.86	0.47	43,43,43,43	0
56	MG	2A	3364	1/1	0.86	0.24	71,71,71,71	0
56	MG	2A	3206	1/1	0.86	0.26	63,63,63,63	0
56	MG	1A	3019	1/1	0.86	0.18	46,46,46,46	0
56	MG	1A	3150	1/1	0.86	0.25	35,35,35,35	0
56	MG	2a	1761	1/1	0.86	0.21	54,54,54,54	0
56	MG	1t	201	1/1	0.86	0.12	58,58,58,58	0
56	MG	1A	4004	1/1	0.86	0.09	73,73,73,73	0
56	MG	1A	3412	1/1	0.86	0.16	69,69,69,69	0
56	MG	1A	3061	1/1	0.86	0.18	27,27,27,27	0
56	MG	1w	108	1/1	0.86	0.12	71,71,71,71	0
56	MG	1A	3837	1/1	0.86	0.30	67,67,67,67	0
56	MG	1A	3649	1/1	0.86	0.20	57,57,57,57	0
56	MG	1A	3416	1/1	0.86	0.18	50,50,50,50	0
56	MG	1A	3417	1/1	0.86	0.34	56,56,56,56	0
56	MG	2A	3408	1/1	0.86	0.32	47,47,47,47	0
56	MG	2A	3415	1/1	0.86	0.33	49,49,49,49	0
56	MG	1A	3419	1/1	0.86	0.28	50,50,50,50	0
56	MG	1A	3179	1/1	0.86	0.42	44,44,44,44	0
56	MG	1A	3505	1/1	0.86	0.23	63,63,63,63	0
56	MG	2a	1819	1/1	0.86	0.23	66,66,66,66	0
56	MG	2A	3251	1/1	0.86	0.19	59,59,59,59	0
56	MG	2a	1824	1/1	0.86	0.23	65,65,65,65	0
56	MG	1A	3426	1/1	0.86	0.14	44,44,44,44	0
56	MG	2g	201	1/1	0.86	0.14	72,72,72,72	0
56	MG	1A	3427	1/1	0.86	0.20	50,50,50,50	0
56	MG	1A	3520	1/1	0.86	0.15	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3351	1/1	0.86	0.20	58,58,58,58	0
56	MG	1A	3134	1/1	0.86	0.12	42,42,42,42	0
56	MG	2x	101	1/1	0.86	0.38	60,60,60,60	0
56	MG	1A	4087	1/1	0.86	0.17	62,62,62,62	0
56	MG	1A	4089	1/1	0.86	0.19	53,53,53,53	0
56	MG	2y	102	1/1	0.86	0.27	79,79,79,79	0
56	MG	1a	1669	1/1	0.86	0.29	65,65,65,65	0
56	MG	2y	107	1/1	0.86	0.17	72,72,72,72	0
56	MG	1A	3288	1/1	0.86	0.17	48,48,48,48	0
56	MG	1a	1769	1/1	0.87	0.13	68,68,68,68	0
56	MG	1a	1651	1/1	0.87	0.09	50,50,50,50	0
56	MG	1A	4082	1/1	0.87	0.17	36,36,36,36	0
56	MG	2A	3049	1/1	0.87	0.24	32,32,32,32	0
56	MG	1A	3608	1/1	0.87	0.14	33,33,33,33	0
56	MG	2A	3466	1/1	0.87	0.24	62,62,62,62	0
56	MG	2A	3765	1/1	0.87	0.11	48,48,48,48	0
56	MG	1Q	206	1/1	0.87	0.27	47,47,47,47	0
56	MG	1S	203	1/1	0.87	0.19	73,73,73,73	0
56	MG	2a	1648	1/1	0.87	0.27	64,64,64,64	0
56	MG	1A	3356	1/1	0.87	0.14	48,48,48,48	0
56	MG	2a	1651	1/1	0.87	0.34	63,63,63,63	0
56	MG	2A	3064	1/1	0.87	0.12	51,51,51,51	0
56	MG	1A	3983	1/1	0.87	0.15	39,39,39,39	0
56	MG	2A	3324	1/1	0.87	0.15	57,57,57,57	0
56	MG	1A	3319	1/1	0.87	0.40	39,39,39,39	0
56	MG	2A	3331	1/1	0.87	0.15	66,66,66,66	0
56	MG	1a	1671	1/1	0.87	0.15	56,56,56,56	0
56	MG	1A	3834	1/1	0.87	0.07	59,59,59,59	0
56	MG	1A	3324	1/1	0.87	0.21	45,45,45,45	0
56	MG	1a	1678	1/1	0.87	0.15	60,60,60,60	0
56	MG	2A	3233	1/1	0.87	0.28	61,61,61,61	0
56	MG	2A	3080	1/1	0.87	0.15	36,36,36,36	0
56	MG	1A	3326	1/1	0.87	0.16	57,57,57,57	0
56	MG	1n	101	1/1	0.87	0.27	73,73,73,73	0
56	MG	2A	3524	1/1	0.87	0.22	63,63,63,63	0
56	MG	2A	3830	1/1	0.87	0.12	66,66,66,66	0
56	MG	2A	3241	1/1	0.87	0.26	62,62,62,62	0
56	MG	2A	3095	1/1	0.87	0.23	60,60,60,60	0
56	MG	2a	1714	1/1	0.87	0.12	54,54,54,54	0
56	MG	2A	3541	1/1	0.87	0.14	70,70,70,70	0
56	MG	2a	1721	1/1	0.87	0.08	55,55,55,55	0
56	MG	2a	1726	1/1	0.87	0.18	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1n	102	1/1	0.87	0.11	60,60,60,60	0
56	MG	2a	1729	1/1	0.87	0.17	66,66,66,66	0
56	MG	2A	3359	1/1	0.87	0.10	49,49,49,49	0
56	MG	1A	3091	1/1	0.87	0.45	54,54,54,54	0
56	MG	1A	3195	1/1	0.87	0.19	50,50,50,50	0
56	MG	12	101	1/1	0.87	0.12	59,59,59,59	0
56	MG	1A	3456	1/1	0.87	0.21	61,61,61,61	0
56	MG	2A	3108	1/1	0.87	0.10	58,58,58,58	0
56	MG	1A	3954	1/1	0.87	0.13	34,34,34,34	0
56	MG	1x	102	1/1	0.87	0.32	60,60,60,60	0
56	MG	1A	3048	1/1	0.87	0.16	37,37,37,37	0
56	MG	1A	3311	1/1	0.87	0.13	51,51,51,51	0
56	MG	1A	3206	1/1	0.87	0.19	41,41,41,41	0
56	MG	1A	4024	1/1	0.87	0.10	31,31,31,31	0
56	MG	2A	3608	1/1	0.87	0.12	74,74,74,74	0
56	MG	2A	3610	1/1	0.87	0.17	35,35,35,35	0
56	MG	1A	3887	1/1	0.87	0.23	42,42,42,42	0
56	MG	2A	3381	1/1	0.87	0.18	58,58,58,58	0
56	MG	2A	3140	1/1	0.87	0.25	52,52,52,52	0
56	MG	2A	3143	1/1	0.87	0.19	47,47,47,47	0
56	MG	2A	3632	1/1	0.87	0.12	73,73,73,73	0
56	MG	1A	3340	1/1	0.87	0.21	62,62,62,62	0
56	MG	1a	1612	1/1	0.87	0.10	63,63,63,63	0
56	MG	2A	3397	1/1	0.87	0.12	63,63,63,63	0
56	MG	2A	3404	1/1	0.87	0.20	60,60,60,60	0
56	MG	1A	3585	1/1	0.87	0.12	64,64,64,64	0
56	MG	2a	1813	1/1	0.87	0.26	71,71,71,71	0
56	MG	2A	3163	1/1	0.87	0.11	67,67,67,67	0
56	MG	2a	1601	1/1	0.87	0.22	58,58,58,58	0
56	MG	2A	3673	1/1	0.87	0.19	58,58,58,58	0
56	MG	1A	3403	1/1	0.87	0.25	48,48,48,48	0
56	MG	2A	3167	1/1	0.87	0.24	41,41,41,41	0
56	MG	1A	3315	1/1	0.87	0.17	52,52,52,52	0
56	MG	2v	101	1/1	0.87	0.18	73,73,73,73	0
56	MG	2A	3429	1/1	0.87	0.14	59,59,59,59	0
56	MG	1A	4071	1/1	0.87	0.21	69,69,69,69	0
56	MG	2a	1613	1/1	0.87	0.09	72,72,72,72	0
56	MG	1A	3472	1/1	0.87	0.13	50,50,50,50	0
56	MG	2A	3434	1/1	0.87	0.25	53,53,53,53	0
56	MG	1A	3597	1/1	0.87	0.10	50,50,50,50	0
56	MG	2A	3180	1/1	0.87	0.34	57,57,57,57	0
56	MG	2A	3709	1/1	0.87	0.20	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1G	203	1/1	0.87	0.21	69,69,69,69	0
56	MG	2A	3451	1/1	0.87	0.22	47,47,47,47	0
56	MG	2a	1623	1/1	0.87	0.13	64,64,64,64	0
59	ZN	24	501	1/1	0.87	0.17	142,142,142,142	0
56	MG	1A	3835	1/1	0.88	0.27	54,54,54,54	0
56	MG	2A	3345	1/1	0.88	0.23	60,60,60,60	0
56	MG	2A	3348	1/1	0.88	0.15	60,60,60,60	0
56	MG	2A	3602	1/1	0.88	0.22	52,52,52,52	0
56	MG	1A	3673	1/1	0.88	0.16	27,27,27,27	0
56	MG	1A	3455	1/1	0.88	0.17	53,53,53,53	0
56	MG	1A	3850	1/1	0.88	0.15	66,66,66,66	0
56	MG	1A	3530	1/1	0.88	0.27	39,39,39,39	0
56	MG	1A	3232	1/1	0.88	0.44	42,42,42,42	0
56	MG	2A	3211	1/1	0.88	0.13	67,67,67,67	0
56	MG	1A	3855	1/1	0.88	0.19	68,68,68,68	0
56	MG	2A	3215	1/1	0.88	0.11	65,65,65,65	0
56	MG	2A	3650	1/1	0.88	0.12	72,72,72,72	0
56	MG	1A	3236	1/1	0.88	0.17	41,41,41,41	0
56	MG	1a	1687	1/1	0.88	0.15	57,57,57,57	0
56	MG	2A	3366	1/1	0.88	0.17	70,70,70,70	0
56	MG	2A	3225	1/1	0.88	0.17	62,62,62,62	0
56	MG	2A	3226	1/1	0.88	0.20	65,65,65,65	0
56	MG	2a	1632	1/1	0.88	0.35	60,60,60,60	0
56	MG	1I	201	1/1	0.88	0.14	67,67,67,67	0
56	MG	1a	1698	1/1	0.88	0.07	66,66,66,66	0
56	MG	1A	3168	1/1	0.88	0.20	59,59,59,59	0
56	MG	2A	3376	1/1	0.88	0.14	60,60,60,60	0
56	MG	2a	1641	1/1	0.88	0.08	70,70,70,70	0
56	MG	1A	3415	1/1	0.88	0.21	56,56,56,56	0
56	MG	1O	205	1/1	0.88	0.22	66,66,66,66	0
56	MG	2A	3697	1/1	0.88	0.28	63,63,63,63	0
56	MG	2a	1649	1/1	0.88	0.11	71,71,71,71	0
56	MG	1Q	204	1/1	0.88	0.12	56,56,56,56	0
56	MG	1A	3876	1/1	0.88	0.18	28,28,28,28	0
56	MG	1A	3171	1/1	0.88	0.14	44,44,44,44	0
56	MG	2A	3239	1/1	0.88	0.17	57,57,57,57	0
56	MG	2A	3240	1/1	0.88	0.44	56,56,56,56	0
56	MG	1A	3369	1/1	0.88	0.26	41,41,41,41	0
56	MG	2a	1661	1/1	0.88	0.17	61,61,61,61	0
56	MG	1a	1715	1/1	0.88	0.49	62,62,62,62	0
56	MG	1A	3468	1/1	0.88	0.11	64,64,64,64	0
56	MG	2a	1680	1/1	0.88	0.21	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	1A	3017	1/1	0.88	0.26	54,54,54,54	0
56	MG	2a	1689	1/1	0.88	0.25	62,62,62,62	0
56	MG	2A	3253	1/1	0.88	0.18	77,77,77,77	0
56	MG	2A	3421	1/1	0.88	0.30	47,47,47,47	0
56	MG	2A	3744	1/1	0.88	0.20	50,50,50,50	0
56	MG	2A	3423	1/1	0.88	0.34	63,63,63,63	0
56	MG	2A	3756	1/1	0.88	0.11	64,64,64,64	0
56	MG	1W	207	1/1	0.88	0.42	43,43,43,43	0
56	MG	2a	1704	1/1	0.88	0.17	59,59,59,59	0
56	MG	1A	3899	1/1	0.88	0.17	58,58,58,58	0
56	MG	1A	3558	1/1	0.88	0.14	49,49,49,49	0
56	MG	1A	3565	1/1	0.88	0.18	50,50,50,50	0
56	MG	2A	3768	1/1	0.88	0.10	80,80,80,80	0
56	MG	2A	3769	1/1	0.88	0.14	70,70,70,70	0
56	MG	10	103	1/1	0.88	0.22	40,40,40,40	0
56	MG	1a	1740	1/1	0.88	0.21	81,81,81,81	0
56	MG	2A	3440	1/1	0.88	0.36	56,56,56,56	0
56	MG	1A	3730	1/1	0.88	0.14	62,62,62,62	0
56	MG	10	106	1/1	0.88	0.08	50,50,50,50	0
56	MG	1A	3378	1/1	0.88	0.18	44,44,44,44	0
56	MG	1a	1755	1/1	0.88	0.09	64,64,64,64	0
56	MG	1A	4070	1/1	0.88	0.13	70,70,70,70	0
56	MG	2A	3098	1/1	0.88	0.13	53,53,53,53	0
56	MG	1A	3332	1/1	0.88	0.25	52,52,52,52	0
56	MG	2A	3457	1/1	0.88	0.19	53,53,53,53	0
56	MG	2A	3282	1/1	0.88	0.55	63,63,63,63	0
56	MG	1A	3384	1/1	0.88	0.21	53,53,53,53	0
56	MG	1A	3480	1/1	0.88	0.17	41,41,41,41	0
56	MG	2a	1744	1/1	0.88	0.17	71,71,71,71	0
56	MG	1A	3129	1/1	0.88	0.15	66,66,66,66	0
56	MG	1A	3752	1/1	0.88	0.18	22,22,22,22	0
56	MG	18	106	1/1	0.88	0.40	74,74,74,74	0
56	MG	2a	1764	1/1	0.88	0.16	64,64,64,64	0
56	MG	2A	3112	1/1	0.88	0.32	73,73,73,73	0
56	MG	1A	3433	1/1	0.88	0.39	51,51,51,51	0
56	MG	1A	3306	1/1	0.88	0.18	45,45,45,45	0
56	MG	2A	3123	1/1	0.88	0.20	57,57,57,57	0
56	MG	2a	1784	1/1	0.88	0.22	71,71,71,71	0
56	MG	1A	3437	1/1	0.88	0.15	51,51,51,51	0
56	MG	2B	207	1/1	0.88	0.10	68,68,68,68	0
56	MG	1A	3495	1/1	0.88	0.31	59,59,59,59	0
56	MG	2A	3485	1/1	0.88	0.10	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3308	1/1	0.88	0.18	43,43,43,43	0
56	MG	1A	3625	1/1	0.88	0.17	25,25,25,25	0
56	MG	1A	3813	1/1	0.88	0.13	37,37,37,37	0
56	MG	2E	306	1/1	0.88	0.17	66,66,66,66	0
56	MG	1A	3089	1/1	0.88	0.25	44,44,44,44	0
56	MG	1A	3820	1/1	0.88	0.26	43,43,43,43	0
56	MG	1A	3508	1/1	0.88	0.45	37,37,37,37	0
56	MG	1A	3016	1/1	0.88	0.26	57,57,57,57	0
56	MG	1w	103	1/1	0.88	0.13	64,64,64,64	0
56	MG	2d	301	1/1	0.88	0.29	59,59,59,59	0
56	MG	2A	3165	1/1	0.88	0.14	58,58,58,58	0
56	MG	1A	3053	1/1	0.88	0.27	48,48,48,48	0
56	MG	1A	3517	1/1	0.88	0.07	67,67,67,67	0
56	MG	2A	3173	1/1	0.88	0.27	65,65,65,65	0
56	MG	2W	202	1/1	0.88	0.10	76,76,76,76	0
56	MG	2A	3325	1/1	0.88	0.17	76,76,76,76	0
56	MG	1A	3352	1/1	0.88	0.24	49,49,49,49	0
56	MG	1A	3406	1/1	0.88	0.09	65,65,65,65	0
56	MG	2A	3561	1/1	0.88	0.18	60,60,60,60	0
56	MG	2x	107	1/1	0.88	0.20	55,55,55,55	0
56	MG	1B	233	1/1	0.88	0.24	69,69,69,69	0
56	MG	1a	1663	1/1	0.88	0.24	57,57,57,57	0
56	MG	2y	104	1/1	0.88	0.12	81,81,81,81	0
56	MG	1x	111	1/1	0.88	0.07	55,55,55,55	0
56	MG	1x	113	1/1	0.88	0.13	71,71,71,71	0
56	MG	1B	236	1/1	0.88	0.12	39,39,39,39	0
56	MG	2A	3187	1/1	0.88	0.14	55,55,55,55	0
56	MG	1A	3528	1/1	0.89	0.14	44,44,44,44	0
56	MG	2Q	201	1/1	0.89	0.13	57,57,57,57	0
56	MG	1a	1688	1/1	0.89	0.23	52,52,52,52	0
56	MG	2A	3066	1/1	0.89	0.13	49,49,49,49	0
56	MG	2T	202	1/1	0.89	0.16	64,64,64,64	0
56	MG	1a	1690	1/1	0.89	0.27	46,46,46,46	0
56	MG	2A	3489	1/1	0.89	0.26	56,56,56,56	0
56	MG	1a	1691	1/1	0.89	0.15	62,62,62,62	0
56	MG	2A	3070	1/1	0.89	0.14	68,68,68,68	0
56	MG	1a	1695	1/1	0.89	0.27	54,54,54,54	0
56	MG	1A	3271	1/1	0.89	0.14	38,38,38,38	0
56	MG	1A	3997	1/1	0.89	0.18	36,36,36,36	0
56	MG	1A	3862	1/1	0.89	0.22	39,39,39,39	0
56	MG	1G	205	1/1	0.89	0.09	62,62,62,62	0
56	MG	1A	3872	1/1	0.89	0.17	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3090	1/1	0.89	0.17	58,58,58,58	0
56	MG	1A	3596	1/1	0.89	0.12	36,36,36,36	0
56	MG	2A	3544	1/1	0.89	0.26	40,40,40,40	0
56	MG	1N	206	1/1	0.89	0.14	53,53,53,53	0
56	MG	1A	3734	1/1	0.89	0.12	41,41,41,41	0
56	MG	1A	3880	1/1	0.89	0.22	22,22,22,22	0
56	MG	2A	3550	1/1	0.89	0.23	30,30,30,30	0
56	MG	1A	4011	1/1	0.89	0.18	61,61,61,61	0
56	MG	2A	3105	1/1	0.89	0.19	39,39,39,39	0
56	MG	1Q	205	1/1	0.89	0.23	51,51,51,51	0
56	MG	1A	4013	1/1	0.89	0.16	50,50,50,50	0
56	MG	1A	3328	1/1	0.89	0.19	49,49,49,49	0
56	MG	1A	3400	1/1	0.89	0.12	55,55,55,55	0
56	MG	1a	1724	1/1	0.89	0.21	57,57,57,57	0
56	MG	1A	4021	1/1	0.89	0.08	43,43,43,43	0
56	MG	2A	3115	1/1	0.89	0.14	73,73,73,73	0
56	MG	1A	3481	1/1	0.89	0.12	57,57,57,57	0
56	MG	1A	3207	1/1	0.89	0.13	56,56,56,56	0
56	MG	1A	3629	1/1	0.89	0.14	43,43,43,43	0
56	MG	1a	1744	1/1	0.89	0.15	60,60,60,60	0
56	MG	2A	3329	1/1	0.89	0.23	72,72,72,72	0
56	MG	2A	3612	1/1	0.89	0.22	50,50,50,50	0
56	MG	1A	3919	1/1	0.89	0.12	46,46,46,46	0
56	MG	1Z	301	1/1	0.89	0.14	59,59,59,59	0
56	MG	2A	3628	1/1	0.89	0.18	38,38,38,38	0
56	MG	1A	3758	1/1	0.89	0.14	45,45,45,45	0
56	MG	2A	3142	1/1	0.89	0.36	71,71,71,71	0
56	MG	2a	1644	1/1	0.89	0.15	76,76,76,76	0
56	MG	10	102	1/1	0.89	0.34	58,58,58,58	0
56	MG	1a	1764	1/1	0.89	0.08	58,58,58,58	0
56	MG	2A	3147	1/1	0.89	0.48	49,49,49,49	0
56	MG	2A	3652	1/1	0.89	0.09	57,57,57,57	0
56	MG	2A	3658	1/1	0.89	0.18	44,44,44,44	0
56	MG	2A	3154	1/1	0.89	0.39	48,48,48,48	0
56	MG	1a	1766	1/1	0.89	0.10	58,58,58,58	0
56	MG	1a	1768	1/1	0.89	0.08	66,66,66,66	0
56	MG	1A	4043	1/1	0.89	0.31	39,39,39,39	0
56	MG	2A	3353	1/1	0.89	0.26	56,56,56,56	0
56	MG	1A	3766	1/1	0.89	0.18	68,68,68,68	0
56	MG	2a	1669	1/1	0.89	0.09	61,61,61,61	0
56	MG	2a	1671	1/1	0.89	0.39	55,55,55,55	0
56	MG	1A	3450	1/1	0.89	0.13	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1675	1/1	0.89	0.23	56,56,56,56	0
56	MG	1a	1779	1/1	0.89	0.10	54,54,54,54	0
56	MG	1a	1780	1/1	0.89	0.17	51,51,51,51	0
56	MG	11	103	1/1	0.89	0.14	62,62,62,62	0
56	MG	1A	4059	1/1	0.89	0.11	48,48,48,48	0
56	MG	1A	4066	1/1	0.89	0.21	51,51,51,51	0
56	MG	1A	3640	1/1	0.89	0.10	25,25,25,25	0
56	MG	1A	3005	1/1	0.89	0.13	45,45,45,45	0
56	MG	1a	1800	1/1	0.89	0.10	58,58,58,58	0
56	MG	1A	3540	1/1	0.89	0.26	50,50,50,50	0
56	MG	17	105	1/1	0.89	0.13	54,54,54,54	0
56	MG	1A	3650	1/1	0.89	0.13	34,34,34,34	0
56	MG	1A	3655	1/1	0.89	0.11	56,56,56,56	0
56	MG	2A	3372	1/1	0.89	0.14	60,60,60,60	0
56	MG	1A	4077	1/1	0.89	0.11	53,53,53,53	0
56	MG	2A	3729	1/1	0.89	0.26	54,54,54,54	0
56	MG	1A	3296	1/1	0.89	0.15	62,62,62,62	0
56	MG	2a	1720	1/1	0.89	0.13	78,78,78,78	0
56	MG	1A	3202	1/1	0.89	0.08	40,40,40,40	0
56	MG	1A	3432	1/1	0.89	0.30	51,51,51,51	0
56	MG	1A	3314	1/1	0.89	0.24	46,46,46,46	0
56	MG	1A	4096	1/1	0.89	0.37	59,59,59,59	0
56	MG	1a	1618	1/1	0.89	0.29	55,55,55,55	0
56	MG	2A	3764	1/1	0.89	0.08	69,69,69,69	0
56	MG	2A	3214	1/1	0.89	0.21	53,53,53,53	0
56	MG	1a	1619	1/1	0.89	0.19	47,47,47,47	0
56	MG	1a	1621	1/1	0.89	0.18	61,61,61,61	0
56	MG	2a	1737	1/1	0.89	0.28	59,59,59,59	0
56	MG	2A	3398	1/1	0.89	0.09	61,61,61,61	0
56	MG	2A	3220	1/1	0.89	0.28	64,64,64,64	0
56	MG	1A	4097	1/1	0.89	0.29	42,42,42,42	0
56	MG	1A	3951	1/1	0.89	0.15	56,56,56,56	0
56	MG	1A	3952	1/1	0.89	0.10	49,49,49,49	0
56	MG	1A	3562	1/1	0.89	0.34	56,56,56,56	0
56	MG	2a	1749	1/1	0.89	0.15	69,69,69,69	0
56	MG	1A	3464	1/1	0.89	0.20	65,65,65,65	0
56	MG	2A	3424	1/1	0.89	0.21	51,51,51,51	0
56	MG	2A	3786	1/1	0.89	0.21	66,66,66,66	0
56	MG	2A	3229	1/1	0.89	0.50	55,55,55,55	0
56	MG	1A	3569	1/1	0.89	0.17	39,39,39,39	0
56	MG	1a	1643	1/1	0.89	0.23	56,56,56,56	0
56	MG	1A	3682	1/1	0.89	0.21	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3431	1/1	0.89	0.44	63,63,63,63	0
56	MG	2A	3810	1/1	0.89	0.22	58,58,58,58	0
56	MG	2A	3003	1/1	0.89	0.20	64,64,64,64	0
56	MG	2A	3819	1/1	0.89	0.16	78,78,78,78	0
56	MG	1A	3575	1/1	0.89	0.15	41,41,41,41	0
56	MG	1A	3962	1/1	0.89	0.13	73,73,73,73	0
56	MG	1A	3233	1/1	0.89	0.20	55,55,55,55	0
56	MG	1A	3122	1/1	0.89	0.16	42,42,42,42	0
56	MG	1A	3341	1/1	0.89	0.32	58,58,58,58	0
56	MG	2A	3836	1/1	0.89	0.19	66,66,66,66	0
56	MG	1a	1665	1/1	0.89	0.10	64,64,64,64	0
56	MG	2A	3844	1/1	0.89	0.17	63,63,63,63	0
56	MG	2A	3247	1/1	0.89	0.32	62,62,62,62	0
56	MG	1a	1667	1/1	0.89	0.25	58,58,58,58	0
56	MG	1A	3844	1/1	0.89	0.10	53,53,53,53	0
56	MG	2B	205	1/1	0.89	0.17	59,59,59,59	0
56	MG	1A	3848	1/1	0.89	0.09	51,51,51,51	0
56	MG	2l	202	1/1	0.89	0.12	65,65,65,65	0
56	MG	2l	203	1/1	0.89	0.25	64,64,64,64	0
56	MG	1B	231	1/1	0.89	0.24	63,63,63,63	0
56	MG	2B	208	1/1	0.89	0.21	56,56,56,56	0
56	MG	2A	3259	1/1	0.89	0.30	55,55,55,55	0
56	MG	1A	3849	1/1	0.89	0.31	36,36,36,36	0
56	MG	2A	3467	1/1	0.89	0.22	68,68,68,68	0
56	MG	2w	106	1/1	0.89	0.20	77,77,77,77	0
56	MG	2D	304	1/1	0.89	0.23	49,49,49,49	0
56	MG	1A	3583	1/1	0.89	0.34	62,62,62,62	0
56	MG	1A	3225	1/1	0.89	0.15	56,56,56,56	0
56	MG	2E	304	1/1	0.89	0.20	49,49,49,49	0
56	MG	1A	3444	1/1	0.89	0.26	50,50,50,50	0
56	MG	1a	1680	1/1	0.89	0.12	67,67,67,67	0
56	MG	1A	3526	1/1	0.89	0.12	51,51,51,51	0
56	MG	1a	1684	1/1	0.89	0.26	63,63,63,63	0
56	MG	1A	3985	1/1	0.89	0.16	37,37,37,37	0
56	MG	2A	3478	1/1	0.89	0.20	63,63,63,63	0
56	MG	26	101	1/1	0.90	0.11	49,49,49,49	0
56	MG	1a	1629	1/1	0.90	0.08	63,63,63,63	0
56	MG	1a	1631	1/1	0.90	0.35	57,57,57,57	0
56	MG	1A	3541	1/1	0.90	0.12	45,45,45,45	0
56	MG	1a	1636	1/1	0.90	0.08	51,51,51,51	0
56	MG	2A	3347	1/1	0.90	0.37	77,77,77,77	0
56	MG	2a	1604	1/1	0.90	0.12	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1f	201	1/1	0.90	0.18	59,59,59,59	0
56	MG	2A	3617	1/1	0.90	0.20	42,42,42,42	0
56	MG	1A	3260	1/1	0.90	0.10	50,50,50,50	0
56	MG	1A	3181	1/1	0.90	0.14	53,53,53,53	0
56	MG	1A	3228	1/1	0.90	0.34	37,37,37,37	0
56	MG	1A	3836	1/1	0.90	0.14	64,64,64,64	0
56	MG	2A	3356	1/1	0.90	0.12	58,58,58,58	0
56	MG	1a	1642	1/1	0.90	0.18	65,65,65,65	0
56	MG	1w	102	1/1	0.90	0.28	68,68,68,68	0
56	MG	2A	3647	1/1	0.90	0.11	64,64,64,64	0
56	MG	1A	3353	1/1	0.90	0.10	50,50,50,50	0
56	MG	1a	1649	1/1	0.90	0.26	61,61,61,61	0
56	MG	1A	3491	1/1	0.90	0.16	37,37,37,37	0
56	MG	2A	3191	1/1	0.90	0.13	56,56,56,56	0
56	MG	1A	3842	1/1	0.90	0.16	40,40,40,40	0
56	MG	1A	3683	1/1	0.90	0.14	19,19,19,19	0
56	MG	1a	1659	1/1	0.90	0.12	54,54,54,54	0
56	MG	1A	3205	1/1	0.90	0.08	55,55,55,55	0
56	MG	2A	3208	1/1	0.90	0.20	59,59,59,59	0
56	MG	1A	3358	1/1	0.90	0.20	72,72,72,72	0
56	MG	1D	313	1/1	0.90	0.22	44,44,44,44	0
56	MG	1x	114	1/1	0.90	0.21	62,62,62,62	0
56	MG	2a	1639	1/1	0.90	0.12	58,58,58,58	0
56	MG	1A	3693	1/1	0.90	0.12	26,26,26,26	0
56	MG	1A	3272	1/1	0.90	0.55	57,57,57,57	0
56	MG	1F	304	1/1	0.90	0.20	71,71,71,71	0
56	MG	1A	3703	1/1	0.90	0.14	47,47,47,47	0
56	MG	2A	3385	1/1	0.90	0.10	55,55,55,55	0
56	MG	1A	3497	1/1	0.90	0.23	47,47,47,47	0
56	MG	2A	3390	1/1	0.90	0.31	69,69,69,69	0
56	MG	2A	3009	1/1	0.90	0.18	46,46,46,46	0
56	MG	1A	3498	1/1	0.90	0.18	49,49,49,49	0
56	MG	1A	3714	1/1	0.90	0.13	48,48,48,48	0
56	MG	2A	3016	1/1	0.90	0.38	50,50,50,50	0
56	MG	1A	3064	1/1	0.90	0.20	46,46,46,46	0
56	MG	2A	3725	1/1	0.90	0.25	59,59,59,59	0
56	MG	1H	201	1/1	0.90	0.29	60,60,60,60	0
56	MG	2a	1666	1/1	0.90	0.39	61,61,61,61	0
56	MG	2a	1668	1/1	0.90	0.17	54,54,54,54	0
56	MG	1A	3721	1/1	0.90	0.14	26,26,26,26	0
56	MG	2a	1670	1/1	0.90	0.31	60,60,60,60	0
56	MG	1A	3580	1/1	0.90	0.18	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3029	1/1	0.90	0.17	46,46,46,46	0
56	MG	1A	3581	1/1	0.90	0.13	45,45,45,45	0
56	MG	1a	1685	1/1	0.90	0.11	62,62,62,62	0
56	MG	2A	3038	1/1	0.90	0.20	62,62,62,62	0
56	MG	2A	3762	1/1	0.90	0.21	54,54,54,54	0
56	MG	1A	3877	1/1	0.90	0.18	42,42,42,42	0
56	MG	1O	204	1/1	0.90	0.15	61,61,61,61	0
56	MG	1A	3879	1/1	0.90	0.08	43,43,43,43	0
56	MG	1A	3184	1/1	0.90	0.17	39,39,39,39	0
56	MG	2A	3050	1/1	0.90	0.36	57,57,57,57	0
56	MG	1A	3453	1/1	0.90	0.18	51,51,51,51	0
56	MG	2A	3772	1/1	0.90	0.17	52,52,52,52	0
56	MG	1A	3454	1/1	0.90	0.36	43,43,43,43	0
56	MG	1A	3514	1/1	0.90	0.33	60,60,60,60	0
56	MG	2A	3060	1/1	0.90	0.18	52,52,52,52	0
56	MG	1A	3366	1/1	0.90	0.59	63,63,63,63	0
56	MG	1A	4025	1/1	0.90	0.21	47,47,47,47	0
56	MG	2A	3447	1/1	0.90	0.36	55,55,55,55	0
56	MG	1A	4033	1/1	0.90	0.18	41,41,41,41	0
56	MG	1W	203	1/1	0.90	0.19	48,48,48,48	0
56	MG	2a	1725	1/1	0.90	0.08	62,62,62,62	0
56	MG	1A	3367	1/1	0.90	0.19	45,45,45,45	0
56	MG	2A	3267	1/1	0.90	0.16	58,58,58,58	0
56	MG	1A	3908	1/1	0.90	0.18	61,61,61,61	0
56	MG	1Y	202	1/1	0.90	0.08	53,53,53,53	0
56	MG	2A	3808	1/1	0.90	0.20	48,48,48,48	0
56	MG	1a	1712	1/1	0.90	0.43	58,58,58,58	0
56	MG	2A	3075	1/1	0.90	0.10	54,54,54,54	0
56	MG	1A	4039	1/1	0.90	0.14	61,61,61,61	0
56	MG	1A	3918	1/1	0.90	0.11	42,42,42,42	0
56	MG	1A	3743	1/1	0.90	0.15	35,35,35,35	0
56	MG	1Z	303	1/1	0.90	0.12	49,49,49,49	0
56	MG	1A	3518	1/1	0.90	0.11	90,90,90,90	0
56	MG	1A	3746	1/1	0.90	0.23	48,48,48,48	0
56	MG	2A	3834	1/1	0.90	0.20	55,55,55,55	0
56	MG	2A	3835	1/1	0.90	0.09	65,65,65,65	0
56	MG	1A	3457	1/1	0.90	0.10	65,65,65,65	0
56	MG	2A	3838	1/1	0.90	0.30	55,55,55,55	0
56	MG	2A	3840	1/1	0.90	0.07	70,70,70,70	0
56	MG	1A	3607	1/1	0.90	0.17	24,24,24,24	0
56	MG	1A	3154	1/1	0.90	0.25	46,46,46,46	0
56	MG	1A	3934	1/1	0.90	0.13	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	1A	3371	1/1	0.90	0.41	50,50,50,50	0
56	MG	2A	3483	1/1	0.90	0.28	62,62,62,62	0
56	MG	1A	3214	1/1	0.90	0.16	50,50,50,50	0
56	MG	1A	3216	1/1	0.90	0.17	35,35,35,35	0
56	MG	1A	3632	1/1	0.90	0.17	22,22,22,22	0
56	MG	17	101	1/1	0.90	0.27	40,40,40,40	0
56	MG	1A	3943	1/1	0.90	0.27	70,70,70,70	0
56	MG	2B	211	1/1	0.90	0.08	68,68,68,68	0
56	MG	1a	1761	1/1	0.90	0.12	50,50,50,50	0
56	MG	2B	214	1/1	0.90	0.15	74,74,74,74	0
56	MG	1A	3162	1/1	0.90	0.21	51,51,51,51	0
56	MG	2a	1810	1/1	0.90	0.24	64,64,64,64	0
56	MG	2a	1812	1/1	0.90	0.14	60,60,60,60	0
56	MG	18	101	1/1	0.90	0.44	57,57,57,57	0
56	MG	2A	3118	1/1	0.90	0.21	45,45,45,45	0
56	MG	2a	1816	1/1	0.90	0.12	69,69,69,69	0
56	MG	1A	3791	1/1	0.90	0.04	56,56,56,56	0
56	MG	2A	3528	1/1	0.90	0.20	59,59,59,59	0
56	MG	2A	3313	1/1	0.90	0.19	61,61,61,61	0
56	MG	1A	3218	1/1	0.90	0.30	40,40,40,40	0
56	MG	2F	303	1/1	0.90	0.10	74,74,74,74	0
56	MG	1a	1601	1/1	0.90	0.28	52,52,52,52	0
56	MG	2F	305	1/1	0.90	0.20	42,42,42,42	0
56	MG	1A	3645	1/1	0.90	0.19	43,43,43,43	0
56	MG	2m	201	1/1	0.90	0.29	68,68,68,68	0
56	MG	2t	201	1/1	0.90	0.10	60,60,60,60	0
56	MG	2A	3131	1/1	0.90	0.12	82,82,82,82	0
56	MG	1a	1604	1/1	0.90	0.16	64,64,64,64	0
56	MG	2A	3320	1/1	0.90	0.15	66,66,66,66	0
56	MG	1A	3534	1/1	0.90	0.14	22,22,22,22	0
56	MG	1a	1781	1/1	0.90	0.17	59,59,59,59	0
56	MG	2w	105	1/1	0.90	0.12	76,76,76,76	0
56	MG	1A	3429	1/1	0.90	0.32	55,55,55,55	0
56	MG	1A	3431	1/1	0.90	0.10	44,44,44,44	0
56	MG	2T	203	1/1	0.90	0.14	59,59,59,59	0
56	MG	2x	104	1/1	0.90	0.52	66,66,66,66	0
56	MG	1A	3219	1/1	0.90	0.30	47,47,47,47	0
56	MG	2A	3145	1/1	0.90	0.19	54,54,54,54	0
56	MG	2A	3579	1/1	0.90	0.15	61,61,61,61	0
56	MG	1B	209	1/1	0.90	0.19	52,52,52,52	0
56	MG	1A	3251	1/1	0.90	0.20	47,47,47,47	0
56	MG	1A	3112	1/1	0.90	0.24	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3960	1/1	0.90	0.14	66,66,66,66	0
56	MG	2A	3596	1/1	0.90	0.20	50,50,50,50	0
56	MG	2A	3604	1/1	0.91	0.22	40,40,40,40	0
56	MG	1A	3127	1/1	0.91	0.19	56,56,56,56	0
56	MG	1A	3932	1/1	0.91	0.17	32,32,32,32	0
56	MG	2A	3199	1/1	0.91	0.14	40,40,40,40	0
56	MG	2A	3614	1/1	0.91	0.08	49,49,49,49	0
56	MG	1S	202	1/1	0.91	0.48	62,62,62,62	0
56	MG	28	102	1/1	0.91	0.10	54,54,54,54	0
56	MG	2A	3618	1/1	0.91	0.17	55,55,55,55	0
56	MG	2A	3007	1/1	0.91	0.37	58,58,58,58	0
56	MG	1A	3933	1/1	0.91	0.16	59,59,59,59	0
56	MG	2A	3010	1/1	0.91	0.25	57,57,57,57	0
56	MG	1A	4041	1/1	0.91	0.11	60,60,60,60	0
56	MG	1A	3817	1/1	0.91	0.10	55,55,55,55	0
56	MG	1A	3573	1/1	0.91	0.27	67,67,67,67	0
56	MG	1A	3170	1/1	0.91	0.34	41,41,41,41	0
56	MG	1A	4051	1/1	0.91	0.09	56,56,56,56	0
56	MG	2a	1612	1/1	0.91	0.16	69,69,69,69	0
56	MG	1A	3509	1/1	0.91	0.79	44,44,44,44	0
56	MG	1A	3423	1/1	0.91	0.23	42,42,42,42	0
56	MG	2A	3654	1/1	0.91	0.24	59,59,59,59	0
56	MG	2a	1616	1/1	0.91	0.13	67,67,67,67	0
56	MG	1A	4068	1/1	0.91	0.14	49,49,49,49	0
56	MG	2A	3218	1/1	0.91	0.18	64,64,64,64	0
56	MG	2A	3219	1/1	0.91	0.31	58,58,58,58	0
56	MG	2A	3661	1/1	0.91	0.19	44,44,44,44	0
56	MG	2A	3663	1/1	0.91	0.12	68,68,68,68	0
56	MG	1A	3345	1/1	0.91	0.24	60,60,60,60	0
56	MG	1A	3515	1/1	0.91	0.13	40,40,40,40	0
56	MG	2A	3034	1/1	0.91	0.41	60,60,60,60	0
56	MG	2A	3672	1/1	0.91	0.17	53,53,53,53	0
56	MG	1A	3289	1/1	0.91	0.25	66,66,66,66	0
56	MG	2A	3674	1/1	0.91	0.12	59,59,59,59	0
56	MG	1A	3947	1/1	0.91	0.08	48,48,48,48	0
56	MG	2A	3383	1/1	0.91	0.12	64,64,64,64	0
56	MG	2A	3384	1/1	0.91	0.15	66,66,66,66	0
56	MG	1a	1710	1/1	0.91	0.13	45,45,45,45	0
56	MG	2a	1640	1/1	0.91	0.27	60,60,60,60	0
56	MG	1A	3829	1/1	0.91	0.19	59,59,59,59	0
56	MG	2A	3695	1/1	0.91	0.33	40,40,40,40	0
56	MG	1A	4076	1/1	0.91	0.15	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	10	105	1/1	0.91	0.10	62,62,62,62	0
56	MG	1A	3949	1/1	0.91	0.22	46,46,46,46	0
56	MG	2A	3701	1/1	0.91	0.17	58,58,58,58	0
56	MG	1A	3698	1/1	0.91	0.16	35,35,35,35	0
56	MG	1A	4083	1/1	0.91	0.15	56,56,56,56	0
56	MG	1A	3210	1/1	0.91	0.13	43,43,43,43	0
56	MG	2A	3400	1/1	0.91	0.19	68,68,68,68	0
56	MG	2A	3401	1/1	0.91	0.19	59,59,59,59	0
56	MG	2A	3715	1/1	0.91	0.24	52,52,52,52	0
56	MG	1A	3392	1/1	0.91	0.12	50,50,50,50	0
56	MG	2a	1662	1/1	0.91	0.08	56,56,56,56	0
56	MG	2A	3063	1/1	0.91	0.28	66,66,66,66	0
56	MG	2a	1665	1/1	0.91	0.21	44,44,44,44	0
56	MG	1A	3062	1/1	0.91	0.11	67,67,67,67	0
56	MG	2A	3728	1/1	0.91	0.21	60,60,60,60	0
56	MG	2A	3416	1/1	0.91	0.43	54,54,54,54	0
56	MG	1A	3394	1/1	0.91	0.20	66,66,66,66	0
56	MG	15	109	1/1	0.91	0.28	39,39,39,39	0
56	MG	1A	3709	1/1	0.91	0.12	55,55,55,55	0
56	MG	2a	1674	1/1	0.91	0.17	62,62,62,62	0
56	MG	1a	1739	1/1	0.91	0.23	53,53,53,53	0
56	MG	2a	1679	1/1	0.91	0.12	64,64,64,64	0
56	MG	2A	3751	1/1	0.91	0.11	57,57,57,57	0
56	MG	2a	1686	1/1	0.91	0.15	70,70,70,70	0
56	MG	2A	3754	1/1	0.91	0.05	81,81,81,81	0
56	MG	1A	3525	1/1	0.91	0.14	36,36,36,36	0
56	MG	1A	3355	1/1	0.91	0.48	47,47,47,47	0
56	MG	1A	3469	1/1	0.91	0.20	51,51,51,51	0
56	MG	2a	1692	1/1	0.91	0.24	68,68,68,68	0
56	MG	1A	3254	1/1	0.91	0.15	58,58,58,58	0
56	MG	2a	1696	1/1	0.91	0.14	63,63,63,63	0
56	MG	1A	3600	1/1	0.91	0.14	29,29,29,29	0
56	MG	1A	3435	1/1	0.91	0.25	70,70,70,70	0
56	MG	1a	1756	1/1	0.91	0.12	55,55,55,55	0
56	MG	1B	213	1/1	0.91	0.19	56,56,56,56	0
56	MG	2a	1705	1/1	0.91	0.12	72,72,72,72	0
56	MG	2A	3268	1/1	0.91	0.33	78,78,78,78	0
56	MG	2A	3443	1/1	0.91	0.42	54,54,54,54	0
56	MG	2A	3775	1/1	0.91	0.17	64,64,64,64	0
56	MG	2a	1712	1/1	0.91	0.09	59,59,59,59	0
56	MG	1A	3327	1/1	0.91	0.18	62,62,62,62	0
56	MG	2A	3779	1/1	0.91	0.25	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1715	1/1	0.91	0.39	59,59,59,59	0
56	MG	2A	3445	1/1	0.91	0.35	49,49,49,49	0
56	MG	1a	1765	1/1	0.91	0.13	53,53,53,53	0
56	MG	1A	3621	1/1	0.91	0.09	33,33,33,33	0
56	MG	2a	1722	1/1	0.91	0.23	55,55,55,55	0
56	MG	1B	218	1/1	0.91	0.12	59,59,59,59	0
56	MG	1A	3860	1/1	0.91	0.30	33,33,33,33	0
56	MG	2A	3277	1/1	0.91	0.13	65,65,65,65	0
56	MG	1A	3478	1/1	0.91	0.13	49,49,49,49	0
56	MG	1A	3359	1/1	0.91	0.13	59,59,59,59	0
56	MG	1A	3439	1/1	0.91	0.48	44,44,44,44	0
56	MG	2A	3801	1/1	0.91	0.16	69,69,69,69	0
56	MG	1A	3116	1/1	0.91	0.33	33,33,33,33	0
56	MG	1A	3443	1/1	0.91	0.24	50,50,50,50	0
56	MG	2A	3284	1/1	0.91	0.19	52,52,52,52	0
56	MG	1a	1626	1/1	0.91	0.08	52,52,52,52	0
56	MG	2a	1739	1/1	0.91	0.10	71,71,71,71	0
56	MG	2A	3811	1/1	0.91	0.19	52,52,52,52	0
56	MG	1a	1788	1/1	0.91	0.12	86,86,86,86	0
56	MG	2A	3816	1/1	0.91	0.15	64,64,64,64	0
56	MG	1B	229	1/1	0.91	0.24	72,72,72,72	0
56	MG	1A	3330	1/1	0.91	0.11	36,36,36,36	0
56	MG	1A	3641	1/1	0.91	0.12	54,54,54,54	0
56	MG	2a	1752	1/1	0.91	0.17	48,48,48,48	0
56	MG	2a	1759	1/1	0.91	0.13	66,66,66,66	0
56	MG	2A	3296	1/1	0.91	0.19	58,58,58,58	0
56	MG	1A	3994	1/1	0.91	0.11	31,31,31,31	0
56	MG	2A	3477	1/1	0.91	0.13	63,63,63,63	0
56	MG	1A	3995	1/1	0.91	0.17	28,28,28,28	0
56	MG	1a	1801	1/1	0.91	0.12	58,58,58,58	0
56	MG	2a	1774	1/1	0.91	0.22	50,50,50,50	0
56	MG	1D	310	1/1	0.91	0.26	47,47,47,47	0
56	MG	2A	3837	1/1	0.91	0.12	65,65,65,65	0
56	MG	2A	3481	1/1	0.91	0.14	77,77,77,77	0
56	MG	2A	3125	1/1	0.91	0.18	67,67,67,67	0
56	MG	1A	3749	1/1	0.91	0.19	20,20,20,20	0
56	MG	2A	3132	1/1	0.91	0.15	46,46,46,46	0
56	MG	1A	3998	1/1	0.91	0.15	25,25,25,25	0
56	MG	2A	3492	1/1	0.91	0.14	56,56,56,56	0
56	MG	1E	301	1/1	0.91	0.39	41,41,41,41	0
56	MG	2a	1798	1/1	0.91	0.09	68,68,68,68	0
56	MG	1E	302	1/1	0.91	0.64	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3141	1/1	0.91	0.16	55,55,55,55	0
56	MG	2a	1807	1/1	0.91	0.09	74,74,74,74	0
56	MG	1A	3407	1/1	0.91	0.15	48,48,48,48	0
56	MG	1a	1650	1/1	0.91	0.16	53,53,53,53	0
56	MG	1A	3055	1/1	0.91	0.14	54,54,54,54	0
56	MG	1A	3121	1/1	0.91	0.20	48,48,48,48	0
56	MG	2a	1815	1/1	0.91	0.08	58,58,58,58	0
56	MG	1A	3768	1/1	0.91	0.16	35,35,35,35	0
56	MG	2A	3149	1/1	0.91	0.17	67,67,67,67	0
56	MG	1A	3771	1/1	0.91	0.09	49,49,49,49	0
56	MG	2A	3322	1/1	0.91	0.15	49,49,49,49	0
56	MG	2a	1825	1/1	0.91	0.12	72,72,72,72	0
56	MG	2A	3323	1/1	0.91	0.31	60,60,60,60	0
56	MG	1F	312	1/1	0.91	0.48	57,57,57,57	0
56	MG	1A	3072	1/1	0.91	0.16	28,28,28,28	0
56	MG	1A	3909	1/1	0.91	0.08	34,34,34,34	0
56	MG	2E	309	1/1	0.91	0.15	59,59,59,59	0
56	MG	1A	3914	1/1	0.91	0.06	54,54,54,54	0
56	MG	2A	3554	1/1	0.91	0.12	39,39,39,39	0
56	MG	1w	107	1/1	0.91	0.17	70,70,70,70	0
56	MG	1A	3548	1/1	0.91	0.28	57,57,57,57	0
56	MG	2A	3334	1/1	0.91	0.12	51,51,51,51	0
56	MG	2A	3169	1/1	0.91	0.15	59,59,59,59	0
56	MG	2A	3571	1/1	0.91	0.22	47,47,47,47	0
56	MG	1A	4019	1/1	0.91	0.20	54,54,54,54	0
56	MG	1A	3551	1/1	0.91	0.13	44,44,44,44	0
56	MG	1x	105	1/1	0.91	0.13	66,66,66,66	0
56	MG	2A	3342	1/1	0.91	0.23	54,54,54,54	0
56	MG	1A	3309	1/1	0.91	0.28	57,57,57,57	0
56	MG	2x	105	1/1	0.91	0.19	61,61,61,61	0
56	MG	2A	3587	1/1	0.91	0.21	37,37,37,37	0
56	MG	1A	3220	1/1	0.91	0.18	39,39,39,39	0
56	MG	2W	201	1/1	0.91	0.17	60,60,60,60	0
56	MG	2y	103	1/1	0.91	0.13	66,66,66,66	0
56	MG	1A	3924	1/1	0.91	0.10	40,40,40,40	0
56	MG	1A	3664	1/1	0.91	0.16	23,23,23,23	0
56	MG	2X	102	1/1	0.91	0.12	51,51,51,51	0
58	WC9	1A	4098	34/34	0.91	0.33	27,38,47,50	0
58	WC9	2A	3846	34/34	0.91	0.31	43,52,58,60	0
56	MG	1Q	203	1/1	0.91	0.09	55,55,55,55	0
56	MG	1A	3243	1/1	0.91	0.15	47,47,47,47	0
56	MG	2A	3350	1/1	0.92	0.18	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3351	1/1	0.92	0.16	73,73,73,73	0
56	MG	1a	1654	1/1	0.92	0.13	48,48,48,48	0
56	MG	2A	3619	1/1	0.92	0.15	61,61,61,61	0
56	MG	2A	3621	1/1	0.92	0.24	38,38,38,38	0
56	MG	1x	101	1/1	0.92	0.54	57,57,57,57	0
56	MG	1A	3197	1/1	0.92	0.27	41,41,41,41	0
56	MG	1A	3630	1/1	0.92	0.15	48,48,48,48	0
56	MG	1E	313	1/1	0.92	0.17	40,40,40,40	0
56	MG	1A	3242	1/1	0.92	0.12	48,48,48,48	0
56	MG	2a	1608	1/1	0.92	0.22	58,58,58,58	0
56	MG	2A	3194	1/1	0.92	0.25	51,51,51,51	0
56	MG	2A	3196	1/1	0.92	0.15	54,54,54,54	0
56	MG	2A	3637	1/1	0.92	0.20	56,56,56,56	0
56	MG	2A	3644	1/1	0.92	0.10	59,59,59,59	0
56	MG	1A	4007	1/1	0.92	0.12	53,53,53,53	0
56	MG	1A	3881	1/1	0.92	0.16	30,30,30,30	0
56	MG	1A	3483	1/1	0.92	0.19	48,48,48,48	0
56	MG	1A	3486	1/1	0.92	0.12	49,49,49,49	0
56	MG	2A	3657	1/1	0.92	0.18	63,63,63,63	0
56	MG	2A	3205	1/1	0.92	0.18	67,67,67,67	0
56	MG	2A	3367	1/1	0.92	0.17	56,56,56,56	0
56	MG	1G	201	1/1	0.92	0.12	42,42,42,42	0
56	MG	1G	202	1/1	0.92	0.29	59,59,59,59	0
56	MG	1A	3325	1/1	0.92	0.16	51,51,51,51	0
56	MG	1A	3892	1/1	0.92	0.24	48,48,48,48	0
56	MG	1A	3895	1/1	0.92	0.23	24,24,24,24	0
56	MG	2A	3212	1/1	0.92	0.18	64,64,64,64	0
56	MG	2A	3375	1/1	0.92	0.33	52,52,52,52	0
56	MG	1A	3753	1/1	0.92	0.16	36,36,36,36	0
56	MG	2a	1634	1/1	0.92	0.24	67,67,67,67	0
56	MG	2A	3377	1/1	0.92	0.14	41,41,41,41	0
56	MG	2A	3675	1/1	0.92	0.24	50,50,50,50	0
56	MG	1A	3755	1/1	0.92	0.17	39,39,39,39	0
56	MG	1A	3106	1/1	0.92	0.12	24,24,24,24	0
56	MG	2A	3014	1/1	0.92	0.17	66,66,66,66	0
56	MG	2A	3382	1/1	0.92	0.18	54,54,54,54	0
56	MG	2A	3683	1/1	0.92	0.19	56,56,56,56	0
56	MG	1A	3544	1/1	0.92	0.07	64,64,64,64	0
56	MG	1A	3489	1/1	0.92	0.37	50,50,50,50	0
56	MG	2A	3017	1/1	0.92	0.26	50,50,50,50	0
56	MG	2A	3221	1/1	0.92	0.30	69,69,69,69	0
56	MG	1A	3136	1/1	0.92	0.45	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1P	202	1/1	0.92	0.29	32,32,32,32	0
56	MG	1A	3772	1/1	0.92	0.40	65,65,65,65	0
56	MG	2A	3026	1/1	0.92	0.12	45,45,45,45	0
56	MG	1A	3774	1/1	0.92	0.10	69,69,69,69	0
56	MG	2a	1657	1/1	0.92	0.12	64,64,64,64	0
56	MG	1A	3059	1/1	0.92	0.16	45,45,45,45	0
56	MG	1A	3182	1/1	0.92	0.13	55,55,55,55	0
56	MG	1R	204	1/1	0.92	0.34	37,37,37,37	0
56	MG	2A	3718	1/1	0.92	0.11	65,65,65,65	0
56	MG	2A	3232	1/1	0.92	0.79	47,47,47,47	0
56	MG	1A	3782	1/1	0.92	0.18	64,64,64,64	0
56	MG	2A	3722	1/1	0.92	0.16	65,65,65,65	0
56	MG	2A	3723	1/1	0.92	0.20	49,49,49,49	0
56	MG	2A	3410	1/1	0.92	0.19	54,54,54,54	0
56	MG	2A	3726	1/1	0.92	0.45	74,74,74,74	0
56	MG	2A	3411	1/1	0.92	0.28	56,56,56,56	0
56	MG	2A	3037	1/1	0.92	0.12	62,62,62,62	0
56	MG	1A	3006	1/1	0.92	0.16	54,54,54,54	0
56	MG	2A	3735	1/1	0.92	0.12	64,64,64,64	0
56	MG	2A	3739	1/1	0.92	0.24	61,61,61,61	0
56	MG	2a	1682	1/1	0.92	0.23	54,54,54,54	0
56	MG	1a	1701	1/1	0.92	0.18	61,61,61,61	0
56	MG	1a	1702	1/1	0.92	0.14	51,51,51,51	0
56	MG	1A	3365	1/1	0.92	0.35	46,46,46,46	0
56	MG	2A	3748	1/1	0.92	0.10	67,67,67,67	0
56	MG	1A	3662	1/1	0.92	0.11	39,39,39,39	0
56	MG	1A	4057	1/1	0.92	0.13	50,50,50,50	0
56	MG	1a	1707	1/1	0.92	0.09	60,60,60,60	0
56	MG	1A	3794	1/1	0.92	0.17	22,22,22,22	0
56	MG	1A	4061	1/1	0.92	0.20	50,50,50,50	0
56	MG	1A	3451	1/1	0.92	0.08	56,56,56,56	0
56	MG	1A	3800	1/1	0.92	0.15	33,33,33,33	0
56	MG	2A	3433	1/1	0.92	0.40	61,61,61,61	0
56	MG	2A	3255	1/1	0.92	0.28	56,56,56,56	0
56	MG	2A	3439	1/1	0.92	0.33	40,40,40,40	0
56	MG	2A	3256	1/1	0.92	0.14	56,56,56,56	0
56	MG	1A	3803	1/1	0.92	0.08	62,62,62,62	0
56	MG	1A	3303	1/1	0.92	0.26	24,24,24,24	0
56	MG	1A	3941	1/1	0.92	0.17	56,56,56,56	0
56	MG	1A	3811	1/1	0.92	0.12	26,26,26,26	0
56	MG	1Z	304	1/1	0.92	0.10	62,62,62,62	0
56	MG	2A	3266	1/1	0.92	0.12	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3305	1/1	0.92	0.47	60,60,60,60	0
56	MG	2A	3453	1/1	0.92	0.17	63,63,63,63	0
56	MG	1A	3814	1/1	0.92	0.09	38,38,38,38	0
56	MG	1A	3229	1/1	0.92	0.11	47,47,47,47	0
56	MG	1A	3946	1/1	0.92	0.17	45,45,45,45	0
56	MG	2A	3271	1/1	0.92	0.17	65,65,65,65	0
56	MG	2a	1728	1/1	0.92	0.36	50,50,50,50	0
56	MG	1A	3370	1/1	0.92	0.14	47,47,47,47	0
56	MG	2A	3793	1/1	0.92	0.23	34,34,34,34	0
56	MG	2A	3795	1/1	0.92	0.17	59,59,59,59	0
56	MG	2A	3796	1/1	0.92	0.14	32,32,32,32	0
56	MG	1A	3090	1/1	0.92	0.22	38,38,38,38	0
56	MG	1A	3374	1/1	0.92	0.63	47,47,47,47	0
56	MG	1A	3460	1/1	0.92	0.33	36,36,36,36	0
56	MG	2A	3278	1/1	0.92	0.16	55,55,55,55	0
56	MG	12	102	1/1	0.92	0.18	44,44,44,44	0
56	MG	1A	4095	1/1	0.92	0.23	41,41,41,41	0
56	MG	1a	1746	1/1	0.92	0.08	59,59,59,59	0
56	MG	1a	1748	1/1	0.92	0.21	51,51,51,51	0
56	MG	1A	3688	1/1	0.92	0.04	41,41,41,41	0
56	MG	2a	1745	1/1	0.92	0.17	64,64,64,64	0
56	MG	1A	3825	1/1	0.92	0.14	47,47,47,47	0
56	MG	2A	3476	1/1	0.92	0.21	39,39,39,39	0
56	MG	2a	1750	1/1	0.92	0.21	58,58,58,58	0
56	MG	1A	3143	1/1	0.92	0.18	38,38,38,38	0
56	MG	2A	3829	1/1	0.92	0.22	63,63,63,63	0
56	MG	2A	3288	1/1	0.92	0.11	66,66,66,66	0
56	MG	16	101	1/1	0.92	0.35	51,51,51,51	0
56	MG	1A	3691	1/1	0.92	0.11	50,50,50,50	0
56	MG	17	103	1/1	0.92	0.15	53,53,53,53	0
56	MG	1A	3377	1/1	0.92	0.10	44,44,44,44	0
56	MG	2a	1771	1/1	0.92	0.16	69,69,69,69	0
56	MG	1A	3697	1/1	0.92	0.20	28,28,28,28	0
56	MG	1A	3194	1/1	0.92	0.16	36,36,36,36	0
56	MG	1B	211	1/1	0.92	0.10	46,46,46,46	0
56	MG	2a	1780	1/1	0.92	0.13	66,66,66,66	0
56	MG	1A	3699	1/1	0.92	0.23	44,44,44,44	0
56	MG	2a	1785	1/1	0.92	0.30	62,62,62,62	0
56	MG	2A	3302	1/1	0.92	0.33	45,45,45,45	0
56	MG	2a	1787	1/1	0.92	0.16	51,51,51,51	0
56	MG	2A	3499	1/1	0.92	0.08	71,71,71,71	0
56	MG	1A	3057	1/1	0.92	0.20	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3383	1/1	0.92	0.15	50,50,50,50	0
56	MG	2B	203	1/1	0.92	0.16	63,63,63,63	0
56	MG	2B	204	1/1	0.92	0.10	66,66,66,66	0
56	MG	1A	3235	1/1	0.92	0.19	31,31,31,31	0
56	MG	2A	3306	1/1	0.92	0.17	50,50,50,50	0
56	MG	1A	3347	1/1	0.92	0.47	38,38,38,38	0
56	MG	1A	3707	1/1	0.92	0.10	55,55,55,55	0
56	MG	1B	222	1/1	0.92	0.08	68,68,68,68	0
56	MG	1B	223	1/1	0.92	0.18	63,63,63,63	0
56	MG	1A	3527	1/1	0.92	0.21	47,47,47,47	0
56	MG	1A	3348	1/1	0.92	0.31	41,41,41,41	0
56	MG	2B	218	1/1	0.92	0.12	68,68,68,68	0
56	MG	1a	1796	1/1	0.92	0.14	66,66,66,66	0
56	MG	1A	3974	1/1	0.92	0.19	34,34,34,34	0
56	MG	1A	3977	1/1	0.92	0.15	30,30,30,30	0
56	MG	1a	1625	1/1	0.92	0.15	58,58,58,58	0
56	MG	1A	3350	1/1	0.92	0.31	30,30,30,30	0
56	MG	1A	3602	1/1	0.92	0.11	28,28,28,28	0
56	MG	2A	3555	1/1	0.92	0.13	38,38,38,38	0
56	MG	1a	1809	1/1	0.92	0.12	57,57,57,57	0
56	MG	2A	3559	1/1	0.92	0.15	40,40,40,40	0
56	MG	1A	3603	1/1	0.92	0.14	48,48,48,48	0
56	MG	1B	232	1/1	0.92	0.22	59,59,59,59	0
56	MG	1A	3196	1/1	0.92	0.13	38,38,38,38	0
56	MG	1A	3531	1/1	0.92	0.35	51,51,51,51	0
56	MG	1A	3613	1/1	0.92	0.22	33,33,33,33	0
56	MG	2A	3161	1/1	0.92	0.35	57,57,57,57	0
56	MG	2A	3162	1/1	0.92	0.16	55,55,55,55	0
56	MG	1m	3001	1/1	0.92	0.11	52,52,52,52	0
56	MG	2R	202	1/1	0.92	0.27	49,49,49,49	0
56	MG	1A	3617	1/1	0.92	0.23	54,54,54,54	0
56	MG	2A	3586	1/1	0.92	0.07	66,66,66,66	0
56	MG	1A	3866	1/1	0.92	0.20	44,44,44,44	0
56	MG	2A	3588	1/1	0.92	0.28	67,67,67,67	0
56	MG	2V	201	1/1	0.92	0.55	60,60,60,60	0
56	MG	2A	3166	1/1	0.92	0.16	44,44,44,44	0
56	MG	1A	3477	1/1	0.92	0.54	59,59,59,59	0
56	MG	1D	314	1/1	0.92	0.49	44,44,44,44	0
56	MG	1a	1647	1/1	0.92	0.12	52,52,52,52	0
56	MG	1A	3237	1/1	0.92	0.25	34,34,34,34	0
56	MG	1A	3398	1/1	0.92	0.23	40,40,40,40	0
56	MG	2y	106	1/1	0.92	0.16	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	20	103	1/1	0.92	0.24	56,56,56,56	0
56	MG	20	104	1/1	0.92	0.11	61,61,61,61	0
56	MG	2A	3346	1/1	0.92	0.24	54,54,54,54	0
56	MG	1E	305	1/1	0.92	0.24	33,33,33,33	0
56	MG	1a	1652	1/1	0.92	0.07	50,50,50,50	0
56	MG	25	104	1/1	0.93	0.36	53,53,53,53	0
56	MG	1A	3363	1/1	0.93	0.14	51,51,51,51	0
56	MG	1A	3257	1/1	0.93	0.13	44,44,44,44	0
56	MG	1A	3159	1/1	0.93	0.20	32,32,32,32	0
56	MG	1x	103	1/1	0.93	0.39	63,63,63,63	0
56	MG	1A	4002	1/1	0.93	0.16	35,35,35,35	0
56	MG	1E	306	1/1	0.93	0.20	55,55,55,55	0
56	MG	2A	3640	1/1	0.93	0.21	62,62,62,62	0
56	MG	1A	4003	1/1	0.93	0.18	46,46,46,46	0
56	MG	2A	3645	1/1	0.93	0.37	57,57,57,57	0
56	MG	2A	3204	1/1	0.93	0.39	59,59,59,59	0
56	MG	1A	3874	1/1	0.93	0.18	29,29,29,29	0
56	MG	1A	3875	1/1	0.93	0.17	28,28,28,28	0
56	MG	2A	3207	1/1	0.93	0.12	52,52,52,52	0
56	MG	1E	315	1/1	0.93	0.05	36,36,36,36	0
56	MG	1x	115	1/1	0.93	0.21	71,71,71,71	0
56	MG	1F	303	1/1	0.93	0.15	55,55,55,55	0
56	MG	1A	3079	1/1	0.93	0.23	45,45,45,45	0
56	MG	1A	3631	1/1	0.93	0.20	54,54,54,54	0
56	MG	2A	3662	1/1	0.93	0.14	47,47,47,47	0
56	MG	1A	3320	1/1	0.93	0.29	36,36,36,36	0
56	MG	2A	3664	1/1	0.93	0.19	66,66,66,66	0
56	MG	1A	3322	1/1	0.93	0.17	35,35,35,35	0
56	MG	1F	313	1/1	0.93	0.38	35,35,35,35	0
56	MG	2A	3669	1/1	0.93	0.09	64,64,64,64	0
56	MG	2A	3008	1/1	0.93	0.11	41,41,41,41	0
56	MG	1A	3261	1/1	0.93	0.08	60,60,60,60	0
56	MG	1A	3263	1/1	0.93	0.16	61,61,61,61	0
56	MG	1A	3754	1/1	0.93	0.17	28,28,28,28	0
56	MG	1A	3543	1/1	0.93	0.09	63,63,63,63	0
56	MG	1A	3373	1/1	0.93	0.21	47,47,47,47	0
56	MG	2A	3392	1/1	0.93	0.45	57,57,57,57	0
56	MG	1A	3893	1/1	0.93	0.13	45,45,45,45	0
56	MG	1A	3894	1/1	0.93	0.24	41,41,41,41	0
56	MG	1a	1681	1/1	0.93	0.11	62,62,62,62	0
56	MG	2A	3685	1/1	0.93	0.22	70,70,70,70	0
56	MG	1N	202	1/1	0.93	0.10	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3399	1/1	0.93	0.13	65,65,65,65	0
56	MG	1A	3765	1/1	0.93	0.06	38,38,38,38	0
56	MG	2a	1642	1/1	0.93	0.18	54,54,54,54	0
56	MG	2A	3698	1/1	0.93	0.19	65,65,65,65	0
56	MG	1A	3131	1/1	0.93	0.14	43,43,43,43	0
56	MG	2a	1645	1/1	0.93	0.14	62,62,62,62	0
56	MG	2A	3402	1/1	0.93	0.10	56,56,56,56	0
56	MG	2a	1647	1/1	0.93	0.09	64,64,64,64	0
56	MG	1A	3375	1/1	0.93	0.22	51,51,51,51	0
56	MG	2A	3407	1/1	0.93	0.23	56,56,56,56	0
56	MG	1A	3652	1/1	0.93	0.13	29,29,29,29	0
56	MG	2A	3705	1/1	0.93	0.20	33,33,33,33	0
56	MG	2A	3706	1/1	0.93	0.15	58,58,58,58	0
56	MG	1A	3654	1/1	0.93	0.19	21,21,21,21	0
56	MG	1A	3913	1/1	0.93	0.13	64,64,64,64	0
56	MG	1A	3265	1/1	0.93	0.17	52,52,52,52	0
56	MG	1A	4042	1/1	0.93	0.20	38,38,38,38	0
56	MG	2A	3717	1/1	0.93	0.16	59,59,59,59	0
56	MG	1A	3775	1/1	0.93	0.18	39,39,39,39	0
56	MG	1A	3776	1/1	0.93	0.14	30,30,30,30	0
56	MG	2A	3044	1/1	0.93	0.18	50,50,50,50	0
56	MG	1A	3268	1/1	0.93	0.22	56,56,56,56	0
56	MG	1A	3553	1/1	0.93	0.27	40,40,40,40	0
56	MG	2A	3724	1/1	0.93	0.05	62,62,62,62	0
56	MG	2A	3248	1/1	0.93	0.16	57,57,57,57	0
56	MG	1A	4054	1/1	0.93	0.20	42,42,42,42	0
56	MG	1A	3065	1/1	0.93	0.13	37,37,37,37	0
56	MG	1A	3560	1/1	0.93	0.16	36,36,36,36	0
56	MG	1V	204	1/1	0.93	0.20	39,39,39,39	0
56	MG	1A	4060	1/1	0.93	0.18	43,43,43,43	0
56	MG	2A	3059	1/1	0.93	0.10	56,56,56,56	0
56	MG	2A	3437	1/1	0.93	0.12	69,69,69,69	0
56	MG	2A	3742	1/1	0.93	0.19	36,36,36,36	0
56	MG	2A	3258	1/1	0.93	0.14	56,56,56,56	0
56	MG	2A	3745	1/1	0.93	0.16	66,66,66,66	0
56	MG	1A	3788	1/1	0.93	0.21	17,17,17,17	0
56	MG	1A	3789	1/1	0.93	0.16	37,37,37,37	0
56	MG	1A	3561	1/1	0.93	0.17	17,17,17,17	0
56	MG	1X	106	1/1	0.93	0.18	32,32,32,32	0
56	MG	1Y	201	1/1	0.93	0.13	52,52,52,52	0
56	MG	1A	3669	1/1	0.93	0.17	28,28,28,28	0
56	MG	1A	3200	1/1	0.93	0.14	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3448	1/1	0.93	0.20	69,69,69,69	0
56	MG	2A	3068	1/1	0.93	0.07	63,63,63,63	0
56	MG	1A	3563	1/1	0.93	0.20	52,52,52,52	0
56	MG	1A	3092	1/1	0.93	0.08	51,51,51,51	0
56	MG	1A	3277	1/1	0.93	0.19	33,33,33,33	0
56	MG	1A	3806	1/1	0.93	0.20	30,30,30,30	0
56	MG	2A	3770	1/1	0.93	0.20	64,64,64,64	0
56	MG	1a	1727	1/1	0.93	0.13	58,58,58,58	0
56	MG	1A	3570	1/1	0.93	0.31	39,39,39,39	0
56	MG	1a	1736	1/1	0.93	0.17	58,58,58,58	0
56	MG	1A	4079	1/1	0.93	0.10	48,48,48,48	0
56	MG	1A	4080	1/1	0.93	0.48	43,43,43,43	0
56	MG	2A	3087	1/1	0.93	0.10	48,48,48,48	0
56	MG	2A	3089	1/1	0.93	0.14	60,60,60,60	0
56	MG	1A	3279	1/1	0.93	0.16	34,34,34,34	0
56	MG	1A	3066	1/1	0.93	0.21	51,51,51,51	0
56	MG	2A	3472	1/1	0.93	0.18	46,46,46,46	0
56	MG	1a	1743	1/1	0.93	0.20	42,42,42,42	0
56	MG	10	107	1/1	0.93	0.12	59,59,59,59	0
56	MG	1A	4086	1/1	0.93	0.14	44,44,44,44	0
56	MG	1A	3504	1/1	0.93	0.24	45,45,45,45	0
56	MG	2A	3101	1/1	0.93	0.40	70,70,70,70	0
56	MG	1A	3172	1/1	0.93	0.13	36,36,36,36	0
56	MG	1A	3818	1/1	0.93	0.12	46,46,46,46	0
56	MG	2a	1736	1/1	0.93	0.19	57,57,57,57	0
56	MG	1A	4093	1/1	0.93	0.22	43,43,43,43	0
56	MG	1A	3099	1/1	0.93	0.17	42,42,42,42	0
56	MG	1A	3692	1/1	0.93	0.18	29,29,29,29	0
56	MG	1a	1758	1/1	0.93	0.14	59,59,59,59	0
56	MG	1A	3295	1/1	0.93	0.24	54,54,54,54	0
56	MG	2a	1742	1/1	0.93	0.12	74,74,74,74	0
56	MG	1A	3822	1/1	0.93	0.13	43,43,43,43	0
56	MG	2A	3491	1/1	0.93	0.22	66,66,66,66	0
56	MG	2A	3817	1/1	0.93	0.12	57,57,57,57	0
56	MG	2a	1747	1/1	0.93	0.09	70,70,70,70	0
56	MG	2A	3116	1/1	0.93	0.12	53,53,53,53	0
56	MG	1A	3695	1/1	0.93	0.12	54,54,54,54	0
56	MG	2A	3496	1/1	0.93	0.08	52,52,52,52	0
56	MG	2a	1751	1/1	0.93	0.25	41,41,41,41	0
56	MG	2A	3119	1/1	0.93	0.20	62,62,62,62	0
56	MG	1A	3696	1/1	0.93	0.13	28,28,28,28	0
56	MG	2A	3502	1/1	0.93	0.25	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3100	1/1	0.93	0.09	62,62,62,62	0
56	MG	2a	1763	1/1	0.93	0.10	59,59,59,59	0
56	MG	1A	3826	1/1	0.93	0.12	39,39,39,39	0
56	MG	1A	3209	1/1	0.93	0.23	45,45,45,45	0
56	MG	1A	3240	1/1	0.93	0.26	32,32,32,32	0
56	MG	1A	3349	1/1	0.93	0.14	46,46,46,46	0
56	MG	2a	1772	1/1	0.93	0.27	68,68,68,68	0
56	MG	19	101	1/1	0.93	0.23	45,45,45,45	0
56	MG	1A	3047	1/1	0.93	0.10	27,27,27,27	0
56	MG	2A	3842	1/1	0.93	0.21	63,63,63,63	0
56	MG	2A	3534	1/1	0.93	0.21	54,54,54,54	0
56	MG	2a	1781	1/1	0.93	0.19	71,71,71,71	0
56	MG	2A	3537	1/1	0.93	0.12	50,50,50,50	0
56	MG	2A	3317	1/1	0.93	0.31	52,52,52,52	0
56	MG	1A	3146	1/1	0.93	0.18	34,34,34,34	0
56	MG	2A	3543	1/1	0.93	0.25	38,38,38,38	0
56	MG	2a	1788	1/1	0.93	0.24	63,63,63,63	0
56	MG	2A	3137	1/1	0.93	0.21	65,65,65,65	0
56	MG	1a	1785	1/1	0.93	0.08	52,52,52,52	0
56	MG	1a	1786	1/1	0.93	0.20	67,67,67,67	0
56	MG	1B	217	1/1	0.93	0.15	45,45,45,45	0
56	MG	2A	3549	1/1	0.93	0.16	55,55,55,55	0
56	MG	1A	3589	1/1	0.93	0.38	57,57,57,57	0
56	MG	1B	220	1/1	0.93	0.21	41,41,41,41	0
56	MG	2a	1801	1/1	0.93	0.18	68,68,68,68	0
56	MG	1a	1791	1/1	0.93	0.25	66,66,66,66	0
56	MG	1a	1610	1/1	0.93	0.13	65,65,65,65	0
56	MG	2a	1809	1/1	0.93	0.12	64,64,64,64	0
56	MG	1A	3124	1/1	0.93	0.58	41,41,41,41	0
56	MG	2A	3330	1/1	0.93	0.15	51,51,51,51	0
56	MG	2A	3153	1/1	0.93	0.24	40,40,40,40	0
56	MG	1a	1613	1/1	0.93	0.13	58,58,58,58	0
56	MG	2A	3570	1/1	0.93	0.17	51,51,51,51	0
56	MG	2D	308	1/1	0.93	0.21	60,60,60,60	0
56	MG	2A	3333	1/1	0.93	0.17	54,54,54,54	0
56	MG	2A	3574	1/1	0.93	0.15	42,42,42,42	0
56	MG	2a	1822	1/1	0.93	0.16	68,68,68,68	0
56	MG	2A	3577	1/1	0.93	0.15	70,70,70,70	0
56	MG	2E	307	1/1	0.93	0.17	53,53,53,53	0
56	MG	1a	1614	1/1	0.93	0.09	68,68,68,68	0
56	MG	2A	3335	1/1	0.93	0.15	57,57,57,57	0
56	MG	1A	3967	1/1	0.93	0.09	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	3523	1/1	0.93	0.39	43,43,43,43	0
56	MG	1A	3149	1/1	0.93	0.21	39,39,39,39	0
56	MG	1A	3971	1/1	0.93	0.09	59,59,59,59	0
56	MG	2q	201	1/1	0.93	0.35	69,69,69,69	0
56	MG	1a	1622	1/1	0.93	0.20	65,65,65,65	0
56	MG	1A	3247	1/1	0.93	0.37	37,37,37,37	0
56	MG	1A	3716	1/1	0.93	0.14	53,53,53,53	0
56	MG	2P	202	1/1	0.93	0.09	61,61,61,61	0
56	MG	1A	3718	1/1	0.93	0.09	54,54,54,54	0
56	MG	2Q	203	1/1	0.93	0.20	64,64,64,64	0
56	MG	2A	3168	1/1	0.93	0.27	54,54,54,54	0
56	MG	1A	3186	1/1	0.93	0.38	38,38,38,38	0
56	MG	2A	3601	1/1	0.93	0.16	37,37,37,37	0
56	MG	1A	3025	1/1	0.93	0.23	53,53,53,53	0
56	MG	1a	1633	1/1	0.93	0.23	35,35,35,35	0
56	MG	1A	3076	1/1	0.93	0.15	32,32,32,32	0
56	MG	2x	106	1/1	0.93	0.24	71,71,71,71	0
56	MG	1A	3223	1/1	0.93	0.23	44,44,44,44	0
56	MG	2A	3611	1/1	0.93	0.12	53,53,53,53	0
56	MG	1B	234	1/1	0.93	0.12	70,70,70,70	0
56	MG	2A	3613	1/1	0.93	0.18	41,41,41,41	0
56	MG	2A	3178	1/1	0.93	0.20	50,50,50,50	0
56	MG	1A	3729	1/1	0.93	0.18	43,43,43,43	0
56	MG	1A	3992	1/1	0.93	0.10	70,70,70,70	0
56	MG	1A	3361	1/1	0.93	0.30	55,55,55,55	0
56	MG	2A	3358	1/1	0.93	0.23	54,54,54,54	0
56	MG	23	102	1/1	0.93	0.21	54,54,54,54	0
56	MG	1A	3418	1/1	0.93	0.10	40,40,40,40	0
59	ZN	2Y	501	1/1	0.93	0.10	95,95,95,95	0
56	MG	1A	3256	1/1	0.93	0.18	39,39,39,39	0
56	MG	1A	3605	1/1	0.94	0.10	43,43,43,43	0
56	MG	2A	3526	1/1	0.94	0.19	53,53,53,53	0
56	MG	1A	4010	1/1	0.94	0.09	49,49,49,49	0
56	MG	1A	3452	1/1	0.94	0.20	38,38,38,38	0
56	MG	1N	201	1/1	0.94	0.20	36,36,36,36	0
56	MG	1A	4012	1/1	0.94	0.15	55,55,55,55	0
56	MG	2A	3289	1/1	0.94	0.16	66,66,66,66	0
56	MG	1a	1692	1/1	0.94	0.38	47,47,47,47	0
56	MG	1N	204	1/1	0.94	0.45	43,43,43,43	0
56	MG	1a	1696	1/1	0.94	0.15	49,49,49,49	0
56	MG	1A	3865	1/1	0.94	0.27	31,31,31,31	0
56	MG	1A	3156	1/1	0.94	0.17	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3871	1/1	0.94	0.10	26,26,26,26	0
56	MG	1A	3007	1/1	0.94	0.23	39,39,39,39	0
56	MG	2O	201	1/1	0.94	0.15	65,65,65,65	0
56	MG	1a	1703	1/1	0.94	0.12	43,43,43,43	0
56	MG	2A	3300	1/1	0.94	0.17	54,54,54,54	0
56	MG	2A	3301	1/1	0.94	0.16	48,48,48,48	0
56	MG	2A	3556	1/1	0.94	0.16	33,33,33,33	0
56	MG	1A	3285	1/1	0.94	0.29	54,54,54,54	0
56	MG	1A	3736	1/1	0.94	0.23	52,52,52,52	0
56	MG	1Q	201	1/1	0.94	0.22	33,33,33,33	0
56	MG	1A	3737	1/1	0.94	0.17	52,52,52,52	0
56	MG	2A	3563	1/1	0.94	0.17	39,39,39,39	0
56	MG	1A	3619	1/1	0.94	0.15	27,27,27,27	0
56	MG	2U	202	1/1	0.94	0.30	49,49,49,49	0
56	MG	1A	3740	1/1	0.94	0.14	32,32,32,32	0
56	MG	1A	3620	1/1	0.94	0.09	44,44,44,44	0
56	MG	1A	3128	1/1	0.94	0.14	31,31,31,31	0
56	MG	2A	3575	1/1	0.94	0.08	60,60,60,60	0
56	MG	2A	3093	1/1	0.94	0.28	53,53,53,53	0
56	MG	1S	201	1/1	0.94	1.06	56,56,56,56	0
56	MG	1A	3622	1/1	0.94	0.13	35,35,35,35	0
56	MG	1A	4037	1/1	0.94	0.14	23,23,23,23	0
56	MG	1A	3399	1/1	0.94	0.31	43,43,43,43	0
56	MG	1U	205	1/1	0.94	0.47	37,37,37,37	0
56	MG	1U	206	1/1	0.94	0.52	35,35,35,35	0
56	MG	2A	3102	1/1	0.94	0.21	39,39,39,39	0
56	MG	1A	3009	1/1	0.94	0.18	24,24,24,24	0
56	MG	2A	3590	1/1	0.94	0.18	67,67,67,67	0
56	MG	2A	3592	1/1	0.94	0.16	63,63,63,63	0
56	MG	1A	3342	1/1	0.94	0.18	33,33,33,33	0
56	MG	2A	3595	1/1	0.94	0.21	47,47,47,47	0
56	MG	1a	1726	1/1	0.94	0.15	45,45,45,45	0
56	MG	2A	3598	1/1	0.94	0.18	63,63,63,63	0
56	MG	1A	3203	1/1	0.94	0.19	22,22,22,22	0
56	MG	1A	3291	1/1	0.94	0.20	49,49,49,49	0
56	MG	1a	1734	1/1	0.94	0.20	38,38,38,38	0
56	MG	2A	3326	1/1	0.94	0.50	51,51,51,51	0
56	MG	1W	206	1/1	0.94	0.14	27,27,27,27	0
56	MG	2A	3328	1/1	0.94	0.17	53,53,53,53	0
56	MG	2A	3609	1/1	0.94	0.22	43,43,43,43	0
56	MG	2A	3114	1/1	0.94	0.09	60,60,60,60	0
56	MG	1A	3294	1/1	0.94	0.27	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3164	1/1	0.94	0.46	36,36,36,36	0
56	MG	2A	3117	1/1	0.94	0.36	54,54,54,54	0
56	MG	1X	105	1/1	0.94	0.12	44,44,44,44	0
56	MG	2A	3615	1/1	0.94	0.34	42,42,42,42	0
56	MG	1A	3165	1/1	0.94	0.36	35,35,35,35	0
56	MG	1a	1742	1/1	0.94	0.20	42,42,42,42	0
56	MG	1A	4055	1/1	0.94	0.12	28,28,28,28	0
56	MG	2A	3337	1/1	0.94	0.14	61,61,61,61	0
56	MG	2A	3338	1/1	0.94	0.12	67,67,67,67	0
56	MG	2A	3626	1/1	0.94	0.31	58,58,58,58	0
56	MG	1A	3761	1/1	0.94	0.11	21,21,21,21	0
56	MG	1A	3901	1/1	0.94	0.18	30,30,30,30	0
56	MG	1A	3905	1/1	0.94	0.26	23,23,23,23	0
56	MG	2A	3130	1/1	0.94	0.17	45,45,45,45	0
56	MG	2a	1629	1/1	0.94	0.16	76,76,76,76	0
56	MG	2a	1630	1/1	0.94	0.32	54,54,54,54	0
56	MG	1a	1747	1/1	0.94	0.11	48,48,48,48	0
56	MG	1A	3056	1/1	0.94	0.13	24,24,24,24	0
56	MG	2A	3636	1/1	0.94	0.15	39,39,39,39	0
56	MG	1A	4065	1/1	0.94	0.22	43,43,43,43	0
56	MG	1a	1751	1/1	0.94	0.17	53,53,53,53	0
56	MG	2A	3642	1/1	0.94	0.19	67,67,67,67	0
56	MG	1A	3642	1/1	0.94	0.15	49,49,49,49	0
56	MG	1a	1754	1/1	0.94	0.15	59,59,59,59	0
56	MG	10	101	1/1	0.94	0.17	44,44,44,44	0
56	MG	2A	3648	1/1	0.94	0.25	60,60,60,60	0
56	MG	1A	3643	1/1	0.94	0.20	28,28,28,28	0
56	MG	1A	3770	1/1	0.94	0.20	35,35,35,35	0
56	MG	1a	1759	1/1	0.94	0.15	66,66,66,66	0
56	MG	2A	3655	1/1	0.94	0.25	56,56,56,56	0
56	MG	1A	3916	1/1	0.94	0.07	45,45,45,45	0
56	MG	1A	3411	1/1	0.94	0.21	49,49,49,49	0
56	MG	1A	3030	1/1	0.94	0.20	29,29,29,29	0
56	MG	2A	3152	1/1	0.94	0.20	44,44,44,44	0
56	MG	1A	3648	1/1	0.94	0.12	48,48,48,48	0
56	MG	1A	3036	1/1	0.94	0.09	49,49,49,49	0
56	MG	2a	1654	1/1	0.94	0.08	60,60,60,60	0
56	MG	2A	3155	1/1	0.94	0.12	61,61,61,61	0
56	MG	1A	3354	1/1	0.94	0.09	66,66,66,66	0
56	MG	11	105	1/1	0.94	0.08	62,62,62,62	0
56	MG	2A	3159	1/1	0.94	0.22	38,38,38,38	0
56	MG	2a	1660	1/1	0.94	0.14	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	11	106	1/1	0.94	0.11	54,54,54,54	0
56	MG	1a	1772	1/1	0.94	0.08	71,71,71,71	0
56	MG	1A	3926	1/1	0.94	0.14	63,63,63,63	0
56	MG	1A	3927	1/1	0.94	0.12	33,33,33,33	0
56	MG	1A	3244	1/1	0.94	0.26	48,48,48,48	0
56	MG	1A	3060	1/1	0.94	0.17	57,57,57,57	0
56	MG	15	102	1/1	0.94	0.23	33,33,33,33	0
56	MG	1A	4084	1/1	0.94	0.27	46,46,46,46	0
56	MG	1A	4085	1/1	0.94	0.17	42,42,42,42	0
56	MG	2A	3170	1/1	0.94	0.14	58,58,58,58	0
56	MG	2A	3682	1/1	0.94	0.09	66,66,66,66	0
56	MG	1A	3212	1/1	0.94	0.10	37,37,37,37	0
56	MG	2A	3684	1/1	0.94	0.18	79,79,79,79	0
56	MG	1A	3783	1/1	0.94	0.23	60,60,60,60	0
56	MG	2a	1681	1/1	0.94	0.27	50,50,50,50	0
56	MG	2A	3686	1/1	0.94	0.18	64,64,64,64	0
56	MG	2A	3688	1/1	0.94	0.12	30,30,30,30	0
56	MG	2a	1687	1/1	0.94	0.27	43,43,43,43	0
56	MG	1A	3547	1/1	0.94	0.31	38,38,38,38	0
56	MG	2A	3690	1/1	0.94	0.39	72,72,72,72	0
56	MG	2A	3693	1/1	0.94	0.22	55,55,55,55	0
56	MG	17	104	1/1	0.94	0.17	39,39,39,39	0
56	MG	1A	4090	1/1	0.94	0.13	59,59,59,59	0
56	MG	1A	3213	1/1	0.94	0.20	46,46,46,46	0
56	MG	1a	1798	1/1	0.94	0.16	53,53,53,53	0
56	MG	2a	1697	1/1	0.94	0.17	67,67,67,67	0
56	MG	2a	1699	1/1	0.94	0.10	70,70,70,70	0
56	MG	1A	3107	1/1	0.94	0.41	50,50,50,50	0
56	MG	1A	3937	1/1	0.94	0.08	43,43,43,43	0
56	MG	2A	3388	1/1	0.94	0.24	55,55,55,55	0
56	MG	2a	1703	1/1	0.94	0.26	61,61,61,61	0
56	MG	1A	3139	1/1	0.94	0.23	36,36,36,36	0
56	MG	2A	3186	1/1	0.94	0.15	52,52,52,52	0
56	MG	1a	1803	1/1	0.94	0.13	58,58,58,58	0
56	MG	1a	1805	1/1	0.94	0.24	51,51,51,51	0
56	MG	2a	1709	1/1	0.94	0.10	69,69,69,69	0
56	MG	2A	3192	1/1	0.94	0.20	49,49,49,49	0
56	MG	2A	3394	1/1	0.94	0.28	62,62,62,62	0
56	MG	2A	3714	1/1	0.94	0.14	56,56,56,56	0
56	MG	2A	3395	1/1	0.94	0.24	62,62,62,62	0
56	MG	2A	3193	1/1	0.94	0.40	65,65,65,65	0
56	MG	1A	3252	1/1	0.94	0.24	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1719	1/1	0.94	0.23	48,48,48,48	0
56	MG	1B	201	1/1	0.94	0.21	54,54,54,54	0
56	MG	1a	1810	1/1	0.94	0.18	56,56,56,56	0
56	MG	1A	3792	1/1	0.94	0.08	41,41,41,41	0
56	MG	1A	3668	1/1	0.94	0.16	25,25,25,25	0
56	MG	1A	3018	1/1	0.94	0.15	36,36,36,36	0
56	MG	2A	3403	1/1	0.94	0.11	68,68,68,68	0
56	MG	1A	3798	1/1	0.94	0.32	27,27,27,27	0
56	MG	1A	3799	1/1	0.94	0.12	58,58,58,58	0
56	MG	1l	202	1/1	0.94	0.18	57,57,57,57	0
56	MG	2A	3732	1/1	0.94	0.22	38,38,38,38	0
56	MG	1A	3255	1/1	0.94	0.11	65,65,65,65	0
56	MG	1A	3113	1/1	0.94	0.10	31,31,31,31	0
56	MG	2a	1734	1/1	0.94	0.28	65,65,65,65	0
56	MG	2A	3737	1/1	0.94	0.16	50,50,50,50	0
56	MG	1A	3805	1/1	0.94	0.17	60,60,60,60	0
56	MG	1a	1615	1/1	0.94	0.09	53,53,53,53	0
56	MG	2A	3418	1/1	0.94	0.27	39,39,39,39	0
56	MG	1A	3490	1/1	0.94	0.18	33,33,33,33	0
56	MG	1A	3042	1/1	0.94	0.09	32,32,32,32	0
56	MG	2A	3422	1/1	0.94	0.36	64,64,64,64	0
56	MG	2A	3747	1/1	0.94	0.18	71,71,71,71	0
56	MG	1A	3679	1/1	0.94	0.11	29,29,29,29	0
56	MG	1a	1620	1/1	0.94	0.09	47,47,47,47	0
56	MG	2A	3753	1/1	0.94	0.24	60,60,60,60	0
56	MG	1A	3316	1/1	0.94	0.17	38,38,38,38	0
56	MG	2A	3755	1/1	0.94	0.13	62,62,62,62	0
56	MG	2A	3216	1/1	0.94	0.26	52,52,52,52	0
56	MG	1w	106	1/1	0.94	0.25	62,62,62,62	0
56	MG	1A	3493	1/1	0.94	0.28	40,40,40,40	0
56	MG	1A	3318	1/1	0.94	0.18	51,51,51,51	0
56	MG	2a	1754	1/1	0.94	0.14	70,70,70,70	0
56	MG	2a	1755	1/1	0.94	0.13	56,56,56,56	0
56	MG	2a	1758	1/1	0.94	0.15	69,69,69,69	0
56	MG	1A	3687	1/1	0.94	0.20	38,38,38,38	0
56	MG	1A	3045	1/1	0.94	0.15	37,37,37,37	0
56	MG	1A	3221	1/1	0.94	0.22	49,49,49,49	0
56	MG	2A	3436	1/1	0.94	0.33	58,58,58,58	0
56	MG	2A	3223	1/1	0.94	0.40	42,42,42,42	0
56	MG	1a	1630	1/1	0.94	0.09	45,45,45,45	0
56	MG	1A	3577	1/1	0.94	0.29	42,42,42,42	0
56	MG	2A	3774	1/1	0.94	0.14	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1x	106	1/1	0.94	0.21	41,41,41,41	0
56	MG	1A	3436	1/1	0.94	0.34	46,46,46,46	0
56	MG	1A	3222	1/1	0.94	0.16	32,32,32,32	0
56	MG	2a	1777	1/1	0.94	0.08	78,78,78,78	0
56	MG	1A	3323	1/1	0.94	0.19	47,47,47,47	0
56	MG	2a	1779	1/1	0.94	0.09	82,82,82,82	0
56	MG	1A	3262	1/1	0.94	0.24	60,60,60,60	0
56	MG	1A	3014	1/1	0.94	0.14	28,28,28,28	0
56	MG	1A	3442	1/1	0.94	0.23	36,36,36,36	0
56	MG	1A	3020	1/1	0.94	0.19	54,54,54,54	0
56	MG	2A	3785	1/1	0.94	0.07	51,51,51,51	0
56	MG	1A	3513	1/1	0.94	0.14	54,54,54,54	0
56	MG	1A	3831	1/1	0.94	0.21	62,62,62,62	0
56	MG	1a	1646	1/1	0.94	0.09	54,54,54,54	0
56	MG	1D	302	1/1	0.94	0.13	26,26,26,26	0
56	MG	2A	3792	1/1	0.94	0.23	30,30,30,30	0
56	MG	2a	1793	1/1	0.94	0.09	59,59,59,59	0
56	MG	1A	3702	1/1	0.94	0.12	55,55,55,55	0
56	MG	2a	1795	1/1	0.94	0.11	76,76,76,76	0
56	MG	2A	3242	1/1	0.94	0.10	64,64,64,64	0
56	MG	2A	3460	1/1	0.94	0.30	25,25,25,25	0
56	MG	1A	3976	1/1	0.94	0.15	26,26,26,26	0
56	MG	2A	3802	1/1	0.94	0.06	53,53,53,53	0
56	MG	2a	1802	1/1	0.94	0.18	62,62,62,62	0
56	MG	2a	1803	1/1	0.94	0.20	61,61,61,61	0
56	MG	2A	3465	1/1	0.94	0.16	40,40,40,40	0
56	MG	2A	3804	1/1	0.94	0.19	53,53,53,53	0
56	MG	2A	3246	1/1	0.94	0.27	47,47,47,47	0
56	MG	2A	3806	1/1	0.94	0.12	66,66,66,66	0
56	MG	1D	311	1/1	0.94	0.33	33,33,33,33	0
56	MG	2A	3809	1/1	0.94	0.13	43,43,43,43	0
56	MG	1A	3190	1/1	0.94	0.41	42,42,42,42	0
56	MG	1A	3267	1/1	0.94	0.33	47,47,47,47	0
56	MG	2A	3812	1/1	0.94	0.21	34,34,34,34	0
56	MG	2a	1817	1/1	0.94	0.36	50,50,50,50	0
56	MG	2A	3813	1/1	0.94	0.13	80,80,80,80	0
56	MG	1A	3227	1/1	0.94	0.12	23,23,23,23	0
56	MG	2A	3252	1/1	0.94	0.33	64,64,64,64	0
56	MG	2a	1823	1/1	0.94	0.26	56,56,56,56	0
56	MG	1A	3838	1/1	0.94	0.11	43,43,43,43	0
56	MG	1A	3593	1/1	0.94	0.11	39,39,39,39	0
56	MG	2A	3018	1/1	0.94	0.47	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1E	303	1/1	0.94	0.46	45,45,45,45	0
56	MG	2A	3257	1/1	0.94	0.26	54,54,54,54	0
56	MG	1A	3987	1/1	0.94	0.33	40,40,40,40	0
56	MG	1A	3990	1/1	0.94	0.15	50,50,50,50	0
56	MG	1A	3841	1/1	0.94	0.19	20,20,20,20	0
56	MG	1A	3093	1/1	0.94	0.17	27,27,27,27	0
56	MG	2q	202	1/1	0.94	0.16	77,77,77,77	0
56	MG	1A	3843	1/1	0.94	0.16	62,62,62,62	0
56	MG	2A	3482	1/1	0.94	0.17	50,50,50,50	0
56	MG	1A	3151	1/1	0.94	0.21	41,41,41,41	0
56	MG	2A	3484	1/1	0.94	0.15	68,68,68,68	0
56	MG	1A	3598	1/1	0.94	0.21	30,30,30,30	0
56	MG	1A	3599	1/1	0.94	0.13	42,42,42,42	0
56	MG	1A	3717	1/1	0.94	0.14	49,49,49,49	0
56	MG	1a	1673	1/1	0.94	0.07	67,67,67,67	0
56	MG	1A	3386	1/1	0.94	0.35	26,26,26,26	0
56	MG	1a	1675	1/1	0.94	0.27	59,59,59,59	0
56	MG	1a	1677	1/1	0.94	0.18	38,38,38,38	0
56	MG	2A	3498	1/1	0.94	0.22	48,48,48,48	0
56	MG	1A	3852	1/1	0.94	0.27	50,50,50,50	0
56	MG	1A	3521	1/1	0.94	0.08	52,52,52,52	0
56	MG	2A	3501	1/1	0.94	0.22	34,34,34,34	0
56	MG	1A	3723	1/1	0.94	0.11	64,64,64,64	0
56	MG	1A	3857	1/1	0.94	0.17	40,40,40,40	0
56	MG	2B	209	1/1	0.94	0.14	48,48,48,48	0
56	MG	2A	3511	1/1	0.94	0.17	47,47,47,47	0
56	MG	1A	3001	1/1	0.94	0.12	37,37,37,37	0
56	MG	2A	3514	1/1	0.94	0.10	56,56,56,56	0
56	MG	2A	3057	1/1	0.94	0.13	55,55,55,55	0
56	MG	2B	216	1/1	0.94	0.20	61,61,61,61	0
56	MG	1A	3604	1/1	0.94	0.18	36,36,36,36	0
56	MG	2A	3519	1/1	0.94	0.17	64,64,64,64	0
56	MG	2A	3522	1/1	0.94	0.17	63,63,63,63	0
56	MG	2A	3594	1/1	0.95	0.18	56,56,56,56	0
56	MG	1A	3618	1/1	0.95	0.11	66,66,66,66	0
56	MG	1A	4081	1/1	0.95	0.08	60,60,60,60	0
56	MG	2A	3597	1/1	0.95	0.14	66,66,66,66	0
56	MG	1A	3283	1/1	0.95	0.37	32,32,32,32	0
56	MG	1A	3051	1/1	0.95	0.21	24,24,24,24	0
56	MG	1A	3396	1/1	0.95	0.12	28,28,28,28	0
56	MG	1A	3397	1/1	0.95	0.41	41,41,41,41	0
56	MG	1A	3719	1/1	0.95	0.17	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3441	1/1	0.95	0.24	40,40,40,40	0
56	MG	2A	3605	1/1	0.95	0.20	42,42,42,42	0
56	MG	2A	3606	1/1	0.95	0.11	70,70,70,70	0
56	MG	1A	3052	1/1	0.95	0.32	29,29,29,29	0
56	MG	1A	3950	1/1	0.95	0.07	24,24,24,24	0
56	MG	11	102	1/1	0.95	0.20	45,45,45,45	0
56	MG	1a	1752	1/1	0.95	0.12	56,56,56,56	0
56	MG	2A	3126	1/1	0.95	0.15	46,46,46,46	0
56	MG	2A	3128	1/1	0.95	0.07	62,62,62,62	0
56	MG	1A	3321	1/1	0.95	0.19	53,53,53,53	0
56	MG	1A	3166	1/1	0.95	0.12	32,32,32,32	0
56	MG	1A	4094	1/1	0.95	0.08	47,47,47,47	0
56	MG	1A	3726	1/1	0.95	0.13	44,44,44,44	0
56	MG	25	105	1/1	0.95	0.18	52,52,52,52	0
56	MG	1A	3445	1/1	0.95	0.28	59,59,59,59	0
56	MG	2A	3136	1/1	0.95	0.09	62,62,62,62	0
56	MG	27	101	1/1	0.95	0.21	44,44,44,44	0
56	MG	1A	3215	1/1	0.95	0.21	38,38,38,38	0
56	MG	1A	3634	1/1	0.95	0.08	62,62,62,62	0
56	MG	1A	3731	1/1	0.95	0.05	54,54,54,54	0
56	MG	1A	3555	1/1	0.95	0.35	47,47,47,47	0
56	MG	15	103	1/1	0.95	0.33	38,38,38,38	0
56	MG	1a	1767	1/1	0.95	0.11	50,50,50,50	0
56	MG	1A	3637	1/1	0.95	0.13	30,30,30,30	0
56	MG	15	107	1/1	0.95	0.40	39,39,39,39	0
56	MG	1B	205	1/1	0.95	0.12	53,53,53,53	0
56	MG	15	110	1/1	0.95	0.08	55,55,55,55	0
56	MG	2A	3638	1/1	0.95	0.27	66,66,66,66	0
56	MG	1B	206	1/1	0.95	0.35	53,53,53,53	0
56	MG	1a	1773	1/1	0.95	0.12	58,58,58,58	0
56	MG	2A	3643	1/1	0.95	0.10	63,63,63,63	0
56	MG	1a	1774	1/1	0.95	0.18	60,60,60,60	0
56	MG	1A	3840	1/1	0.95	0.23	47,47,47,47	0
56	MG	17	102	1/1	0.95	0.23	34,34,34,34	0
56	MG	2A	3158	1/1	0.95	0.27	39,39,39,39	0
56	MG	2A	3649	1/1	0.95	0.15	62,62,62,62	0
56	MG	1A	3638	1/1	0.95	0.18	38,38,38,38	0
56	MG	2A	3651	1/1	0.95	0.13	34,34,34,34	0
56	MG	1A	3639	1/1	0.95	0.14	28,28,28,28	0
56	MG	2A	3653	1/1	0.95	0.18	56,56,56,56	0
56	MG	1a	1784	1/1	0.95	0.18	49,49,49,49	0
56	MG	2a	1624	1/1	0.95	0.13	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3402	1/1	0.95	0.27	44,44,44,44	0
56	MG	2A	3656	1/1	0.95	0.20	54,54,54,54	0
56	MG	1A	3496	1/1	0.95	0.07	55,55,55,55	0
56	MG	1A	3845	1/1	0.95	0.22	24,24,24,24	0
56	MG	1A	3846	1/1	0.95	0.15	30,30,30,30	0
56	MG	18	105	1/1	0.95	0.21	39,39,39,39	0
56	MG	1A	3290	1/1	0.95	0.19	71,71,71,71	0
56	MG	2A	3378	1/1	0.95	0.18	55,55,55,55	0
56	MG	1a	1792	1/1	0.95	0.11	60,60,60,60	0
56	MG	1A	3234	1/1	0.95	0.37	34,34,34,34	0
56	MG	2a	1637	1/1	0.95	0.10	55,55,55,55	0
56	MG	2A	3171	1/1	0.95	0.36	59,59,59,59	0
56	MG	2A	3666	1/1	0.95	0.11	72,72,72,72	0
56	MG	1A	3499	1/1	0.95	0.13	38,38,38,38	0
56	MG	2A	3668	1/1	0.95	0.25	49,49,49,49	0
56	MG	1A	3975	1/1	0.95	0.23	38,38,38,38	0
56	MG	2A	3174	1/1	0.95	0.16	61,61,61,61	0
56	MG	2A	3671	1/1	0.95	0.15	50,50,50,50	0
56	MG	1A	3564	1/1	0.95	0.23	39,39,39,39	0
56	MG	1a	1799	1/1	0.95	0.12	59,59,59,59	0
56	MG	1A	3747	1/1	0.95	0.21	49,49,49,49	0
56	MG	1A	3853	1/1	0.95	0.18	45,45,45,45	0
56	MG	1a	1608	1/1	0.95	0.17	55,55,55,55	0
56	MG	1a	1609	1/1	0.95	0.20	48,48,48,48	0
56	MG	1A	3258	1/1	0.95	0.11	39,39,39,39	0
56	MG	1A	3567	1/1	0.95	0.15	25,25,25,25	0
56	MG	2A	3185	1/1	0.95	0.30	62,62,62,62	0
56	MG	1a	1808	1/1	0.95	0.15	55,55,55,55	0
56	MG	1A	3750	1/1	0.95	0.18	44,44,44,44	0
56	MG	2A	3189	1/1	0.95	0.12	52,52,52,52	0
56	MG	2a	1658	1/1	0.95	0.28	44,44,44,44	0
56	MG	1A	3751	1/1	0.95	0.14	40,40,40,40	0
56	MG	1A	3859	1/1	0.95	0.18	51,51,51,51	0
56	MG	1A	3501	1/1	0.95	0.16	51,51,51,51	0
56	MG	1A	3503	1/1	0.95	0.17	55,55,55,55	0
56	MG	2A	3195	1/1	0.95	0.17	34,34,34,34	0
56	MG	2A	3694	1/1	0.95	0.17	35,35,35,35	0
56	MG	1A	3078	1/1	0.95	0.49	54,54,54,54	0
56	MG	2A	3197	1/1	0.95	0.15	51,51,51,51	0
56	MG	1A	3145	1/1	0.95	0.17	30,30,30,30	0
56	MG	2A	3409	1/1	0.95	0.31	47,47,47,47	0
56	MG	1l	201	1/1	0.95	0.22	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1B	235	1/1	0.95	0.10	49,49,49,49	0
56	MG	1A	3756	1/1	0.95	0.17	20,20,20,20	0
56	MG	2A	3703	1/1	0.95	0.16	43,43,43,43	0
56	MG	1A	3996	1/1	0.95	0.11	25,25,25,25	0
56	MG	1D	304	1/1	0.95	0.16	36,36,36,36	0
56	MG	1p	101	1/1	0.95	0.13	49,49,49,49	0
56	MG	1A	3869	1/1	0.95	0.07	61,61,61,61	0
56	MG	2a	1685	1/1	0.95	0.31	54,54,54,54	0
56	MG	1D	309	1/1	0.95	0.29	53,53,53,53	0
56	MG	1A	3103	1/1	0.95	0.14	25,25,25,25	0
56	MG	1A	3999	1/1	0.95	0.11	39,39,39,39	0
56	MG	1a	1632	1/1	0.95	0.31	60,60,60,60	0
56	MG	1A	4000	1/1	0.95	0.12	38,38,38,38	0
56	MG	1A	3759	1/1	0.95	0.17	23,23,23,23	0
56	MG	1A	3657	1/1	0.95	0.12	38,38,38,38	0
56	MG	2a	1694	1/1	0.95	0.19	51,51,51,51	0
56	MG	1A	3762	1/1	0.95	0.15	47,47,47,47	0
56	MG	1a	1638	1/1	0.95	0.10	66,66,66,66	0
56	MG	1A	3763	1/1	0.95	0.14	22,22,22,22	0
56	MG	2a	1698	1/1	0.95	0.25	60,60,60,60	0
56	MG	1A	3239	1/1	0.95	0.39	29,29,29,29	0
56	MG	2A	3435	1/1	0.95	0.29	49,49,49,49	0
56	MG	1A	3044	1/1	0.95	0.17	30,30,30,30	0
56	MG	1A	3413	1/1	0.95	0.09	50,50,50,50	0
56	MG	1A	3004	1/1	0.95	0.13	27,27,27,27	0
56	MG	2A	3730	1/1	0.95	0.12	51,51,51,51	0
56	MG	2A	3731	1/1	0.95	0.10	50,50,50,50	0
56	MG	1x	107	1/1	0.95	0.15	55,55,55,55	0
56	MG	2A	3441	1/1	0.95	0.37	53,53,53,53	0
56	MG	1a	1644	1/1	0.95	0.16	56,56,56,56	0
56	MG	2A	3736	1/1	0.95	0.24	53,53,53,53	0
56	MG	2A	3224	1/1	0.95	0.22	55,55,55,55	0
56	MG	1A	3666	1/1	0.95	0.11	22,22,22,22	0
56	MG	1A	3458	1/1	0.95	0.13	35,35,35,35	0
56	MG	1E	314	1/1	0.95	0.18	55,55,55,55	0
56	MG	1A	3885	1/1	0.95	0.15	70,70,70,70	0
56	MG	1F	301	1/1	0.95	0.21	44,44,44,44	0
56	MG	1A	3886	1/1	0.95	0.11	35,35,35,35	0
56	MG	2A	3002	1/1	0.95	0.25	43,43,43,43	0
56	MG	1A	3069	1/1	0.95	0.23	49,49,49,49	0
56	MG	2a	1723	1/1	0.95	0.31	52,52,52,52	0
56	MG	2a	1724	1/1	0.95	0.28	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3749	1/1	0.95	0.24	54,54,54,54	0
56	MG	2A	3750	1/1	0.95	0.18	42,42,42,42	0
56	MG	1F	305	1/1	0.95	0.30	35,35,35,35	0
56	MG	1A	3888	1/1	0.95	0.12	54,54,54,54	0
56	MG	1F	307	1/1	0.95	0.10	45,45,45,45	0
56	MG	2A	3237	1/1	0.95	0.20	47,47,47,47	0
56	MG	1A	4018	1/1	0.95	0.15	53,53,53,53	0
56	MG	1A	3304	1/1	0.95	0.22	51,51,51,51	0
56	MG	2A	3462	1/1	0.95	0.09	54,54,54,54	0
56	MG	1a	1662	1/1	0.95	0.07	65,65,65,65	0
56	MG	2A	3011	1/1	0.95	0.17	42,42,42,42	0
56	MG	2A	3012	1/1	0.95	0.27	55,55,55,55	0
56	MG	1A	4020	1/1	0.95	0.08	51,51,51,51	0
56	MG	1A	3338	1/1	0.95	0.14	54,54,54,54	0
56	MG	1F	315	1/1	0.95	0.10	41,41,41,41	0
56	MG	1A	3778	1/1	0.95	0.07	29,29,29,29	0
56	MG	1A	3462	1/1	0.95	0.21	56,56,56,56	0
56	MG	1A	3204	1/1	0.95	0.13	33,33,33,33	0
56	MG	1G	204	1/1	0.95	0.11	50,50,50,50	0
56	MG	2A	3776	1/1	0.95	0.20	62,62,62,62	0
56	MG	2A	3021	1/1	0.95	0.08	46,46,46,46	0
56	MG	2a	1746	1/1	0.95	0.15	58,58,58,58	0
56	MG	2A	3778	1/1	0.95	0.45	73,73,73,73	0
56	MG	1A	3588	1/1	0.95	0.31	50,50,50,50	0
56	MG	2A	3023	1/1	0.95	0.22	38,38,38,38	0
56	MG	2A	3024	1/1	0.95	0.14	47,47,47,47	0
56	MG	1A	4026	1/1	0.95	0.09	55,55,55,55	0
56	MG	1A	4030	1/1	0.95	0.21	34,34,34,34	0
56	MG	2a	1753	1/1	0.95	0.19	65,65,65,65	0
56	MG	1A	4032	1/1	0.95	0.10	44,44,44,44	0
56	MG	1A	3681	1/1	0.95	0.22	33,33,33,33	0
56	MG	2a	1757	1/1	0.95	0.18	68,68,68,68	0
56	MG	1N	203	1/1	0.95	0.17	43,43,43,43	0
56	MG	1a	1679	1/1	0.95	0.15	54,54,54,54	0
56	MG	1A	4034	1/1	0.95	0.23	23,23,23,23	0
56	MG	1A	3900	1/1	0.95	0.11	38,38,38,38	0
56	MG	2A	3488	1/1	0.95	0.14	53,53,53,53	0
56	MG	1A	3109	1/1	0.95	0.15	36,36,36,36	0
56	MG	2A	3794	1/1	0.95	0.21	60,60,60,60	0
56	MG	2A	3042	1/1	0.95	0.65	60,60,60,60	0
56	MG	1a	1683	1/1	0.95	0.12	66,66,66,66	0
56	MG	1A	3904	1/1	0.95	0.13	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1773	1/1	0.95	0.13	59,59,59,59	0
56	MG	1O	202	1/1	0.95	0.26	53,53,53,53	0
56	MG	2A	3046	1/1	0.95	0.15	43,43,43,43	0
56	MG	2a	1776	1/1	0.95	0.18	61,61,61,61	0
56	MG	1O	203	1/1	0.95	0.12	53,53,53,53	0
56	MG	1A	3269	1/1	0.95	0.40	49,49,49,49	0
56	MG	1A	4040	1/1	0.95	0.15	46,46,46,46	0
56	MG	2A	3807	1/1	0.95	0.25	45,45,45,45	0
56	MG	1a	1689	1/1	0.95	0.22	56,56,56,56	0
56	MG	2A	3503	1/1	0.95	0.26	59,59,59,59	0
56	MG	2A	3504	1/1	0.95	0.37	46,46,46,46	0
56	MG	2A	3509	1/1	0.95	0.16	37,37,37,37	0
56	MG	1P	201	1/1	0.95	0.37	31,31,31,31	0
56	MG	2A	3056	1/1	0.95	0.16	56,56,56,56	0
56	MG	2A	3814	1/1	0.95	0.11	58,58,58,58	0
56	MG	2a	1790	1/1	0.95	0.27	60,60,60,60	0
56	MG	1A	3592	1/1	0.95	0.41	70,70,70,70	0
56	MG	1P	203	1/1	0.95	0.31	24,24,24,24	0
56	MG	1A	3111	1/1	0.95	0.24	37,37,37,37	0
56	MG	2A	3818	1/1	0.95	0.20	31,31,31,31	0
56	MG	2A	3516	1/1	0.95	0.16	37,37,37,37	0
56	MG	2A	3820	1/1	0.95	0.10	54,54,54,54	0
56	MG	2a	1797	1/1	0.95	0.11	58,58,58,58	0
56	MG	1A	3595	1/1	0.95	0.15	28,28,28,28	0
56	MG	1A	3344	1/1	0.95	0.26	48,48,48,48	0
56	MG	2A	3286	1/1	0.95	0.30	65,65,65,65	0
56	MG	2A	3824	1/1	0.95	0.08	50,50,50,50	0
56	MG	2A	3826	1/1	0.95	0.21	59,59,59,59	0
56	MG	1A	3793	1/1	0.95	0.18	47,47,47,47	0
56	MG	2a	1806	1/1	0.95	0.10	80,80,80,80	0
56	MG	2A	3525	1/1	0.95	0.26	53,53,53,53	0
56	MG	2a	1808	1/1	0.95	0.34	56,56,56,56	0
56	MG	1A	4049	1/1	0.95	0.15	10,10,10,10	0
56	MG	2A	3527	1/1	0.95	0.20	44,44,44,44	0
56	MG	1R	203	1/1	0.95	0.17	28,28,28,28	0
56	MG	1A	3086	1/1	0.95	0.22	31,31,31,31	0
56	MG	2A	3530	1/1	0.95	0.25	42,42,42,42	0
56	MG	1R	205	1/1	0.95	0.29	33,33,33,33	0
56	MG	1A	4053	1/1	0.95	0.08	50,50,50,50	0
56	MG	2A	3841	1/1	0.95	0.20	61,61,61,61	0
56	MG	2a	1818	1/1	0.95	0.16	62,62,62,62	0
56	MG	2A	3295	1/1	0.95	0.14	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1820	1/1	0.95	0.16	66,66,66,66	0
56	MG	1A	3796	1/1	0.95	0.11	50,50,50,50	0
56	MG	1A	3470	1/1	0.95	0.21	42,42,42,42	0
56	MG	2A	3072	1/1	0.95	0.14	49,49,49,49	0
56	MG	1T	202	1/1	0.95	0.15	50,50,50,50	0
56	MG	1A	3381	1/1	0.95	0.21	29,29,29,29	0
56	MG	1A	3096	1/1	0.95	0.21	41,41,41,41	0
56	MG	2d	302	1/1	0.95	0.08	58,58,58,58	0
56	MG	2e	201	1/1	0.95	0.06	70,70,70,70	0
56	MG	1A	3601	1/1	0.95	0.17	49,49,49,49	0
56	MG	2A	3079	1/1	0.95	0.14	41,41,41,41	0
56	MG	2j	201	1/1	0.95	0.07	80,80,80,80	0
56	MG	2A	3553	1/1	0.95	0.13	41,41,41,41	0
56	MG	1A	3801	1/1	0.95	0.11	38,38,38,38	0
56	MG	1a	1713	1/1	0.95	0.33	49,49,49,49	0
56	MG	1A	4063	1/1	0.95	0.18	40,40,40,40	0
56	MG	1A	3474	1/1	0.95	0.29	42,42,42,42	0
56	MG	1a	1717	1/1	0.95	0.19	35,35,35,35	0
56	MG	1W	201	1/1	0.95	0.21	41,41,41,41	0
56	MG	2A	3311	1/1	0.95	0.14	54,54,54,54	0
56	MG	2A	3091	1/1	0.95	0.35	51,51,51,51	0
56	MG	2A	3566	1/1	0.95	0.08	61,61,61,61	0
56	MG	2A	3092	1/1	0.95	0.08	64,64,64,64	0
56	MG	2D	303	1/1	0.95	0.40	55,55,55,55	0
56	MG	2A	3569	1/1	0.95	0.14	49,49,49,49	0
56	MG	1W	202	1/1	0.95	0.25	41,41,41,41	0
56	MG	1A	3475	1/1	0.95	0.19	37,37,37,37	0
56	MG	2x	103	1/1	0.95	0.11	69,69,69,69	0
56	MG	1A	3273	1/1	0.95	0.16	29,29,29,29	0
56	MG	1A	3275	1/1	0.95	0.51	48,48,48,48	0
56	MG	1a	1725	1/1	0.95	0.22	53,53,53,53	0
56	MG	1A	3606	1/1	0.95	0.08	40,40,40,40	0
56	MG	2A	3100	1/1	0.95	0.06	78,78,78,78	0
56	MG	1A	3097	1/1	0.95	0.12	32,32,32,32	0
56	MG	2A	3583	1/1	0.95	0.26	61,61,61,61	0
56	MG	1A	3387	1/1	0.95	0.17	26,26,26,26	0
56	MG	2A	3103	1/1	0.95	0.19	44,44,44,44	0
56	MG	1a	1730	1/1	0.95	0.19	51,51,51,51	0
56	MG	2F	308	1/1	0.95	0.28	36,36,36,36	0
57	K	1A	3557	1/1	0.95	0.09	64,64,64,64	0
56	MG	1a	1733	1/1	0.95	0.13	47,47,47,47	0
56	MG	1A	3816	1/1	0.95	0.14	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3611	1/1	0.95	0.14	28,28,28,28	0
56	MG	1A	3050	1/1	0.95	0.14	22,22,22,22	0
56	MG	1A	3317	1/1	0.95	0.20	46,46,46,46	0
59	ZN	2n	501	1/1	0.95	0.09	84,84,84,84	0
56	MG	2A	3691	1/1	0.96	0.20	65,65,65,65	0
56	MG	2A	3692	1/1	0.96	0.07	53,53,53,53	0
56	MG	1E	312	1/1	0.96	0.15	61,61,61,61	0
56	MG	1A	3046	1/1	0.96	0.11	28,28,28,28	0
56	MG	1A	3117	1/1	0.96	0.18	35,35,35,35	0
56	MG	1a	1763	1/1	0.96	0.16	55,55,55,55	0
56	MG	2A	3463	1/1	0.96	0.22	54,54,54,54	0
56	MG	2A	3464	1/1	0.96	0.32	40,40,40,40	0
56	MG	1a	1611	1/1	0.96	0.20	27,27,27,27	0
56	MG	1A	3485	1/1	0.96	0.28	49,49,49,49	0
56	MG	1A	3925	1/1	0.96	0.12	35,35,35,35	0
56	MG	1A	3118	1/1	0.96	0.42	50,50,50,50	0
56	MG	2a	1625	1/1	0.96	0.23	58,58,58,58	0
56	MG	1A	3333	1/1	0.96	0.20	52,52,52,52	0
56	MG	1A	3628	1/1	0.96	0.09	23,23,23,23	0
56	MG	1a	1617	1/1	0.96	0.11	54,54,54,54	0
56	MG	1A	3292	1/1	0.96	0.24	25,25,25,25	0
56	MG	1A	3549	1/1	0.96	0.26	35,35,35,35	0
56	MG	2a	1631	1/1	0.96	0.31	54,54,54,54	0
56	MG	1F	308	1/1	0.96	0.28	31,31,31,31	0
56	MG	1A	3082	1/1	0.96	0.26	35,35,35,35	0
56	MG	1a	1776	1/1	0.96	0.13	57,57,57,57	0
56	MG	2A	3104	1/1	0.96	0.22	48,48,48,48	0
56	MG	1a	1778	1/1	0.96	0.18	46,46,46,46	0
56	MG	1F	311	1/1	0.96	0.18	48,48,48,48	0
56	MG	1A	3552	1/1	0.96	0.58	42,42,42,42	0
56	MG	1A	3727	1/1	0.96	0.10	36,36,36,36	0
56	MG	2A	3109	1/1	0.96	0.16	61,61,61,61	0
56	MG	2A	3294	1/1	0.96	0.19	59,59,59,59	0
56	MG	1A	4047	1/1	0.96	0.12	49,49,49,49	0
56	MG	1a	1783	1/1	0.96	0.08	51,51,51,51	0
56	MG	1a	1627	1/1	0.96	0.20	46,46,46,46	0
56	MG	2A	3113	1/1	0.96	0.14	32,32,32,32	0
56	MG	1A	4048	1/1	0.96	0.12	45,45,45,45	0
56	MG	2A	3490	1/1	0.96	0.15	61,61,61,61	0
56	MG	1A	3380	1/1	0.96	0.41	29,29,29,29	0
56	MG	1A	3013	1/1	0.96	0.27	29,29,29,29	0
56	MG	2A	3734	1/1	0.96	0.33	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3337	1/1	0.96	0.27	44,44,44,44	0
56	MG	1A	3559	1/1	0.96	0.34	34,34,34,34	0
56	MG	2A	3497	1/1	0.96	0.17	41,41,41,41	0
56	MG	1a	1634	1/1	0.96	0.23	58,58,58,58	0
56	MG	1A	3010	1/1	0.96	0.11	39,39,39,39	0
56	MG	2A	3741	1/1	0.96	0.21	59,59,59,59	0
56	MG	1A	4056	1/1	0.96	0.15	44,44,44,44	0
56	MG	2A	3743	1/1	0.96	0.28	43,43,43,43	0
56	MG	1A	3192	1/1	0.96	0.44	39,39,39,39	0
56	MG	1A	4058	1/1	0.96	0.13	52,52,52,52	0
56	MG	1A	3123	1/1	0.96	0.28	35,35,35,35	0
56	MG	2A	3310	1/1	0.96	0.21	46,46,46,46	0
56	MG	2A	3505	1/1	0.96	0.12	40,40,40,40	0
56	MG	2A	3506	1/1	0.96	0.14	46,46,46,46	0
56	MG	1A	3067	1/1	0.96	0.13	30,30,30,30	0
56	MG	2A	3127	1/1	0.96	0.18	46,46,46,46	0
56	MG	1A	3125	1/1	0.96	0.40	33,33,33,33	0
56	MG	2A	3129	1/1	0.96	0.17	37,37,37,37	0
56	MG	1A	3739	1/1	0.96	0.13	37,37,37,37	0
56	MG	1A	4064	1/1	0.96	0.14	60,60,60,60	0
56	MG	2A	3757	1/1	0.96	0.10	59,59,59,59	0
56	MG	2a	1678	1/1	0.96	0.12	55,55,55,55	0
56	MG	1A	3343	1/1	0.96	0.28	39,39,39,39	0
56	MG	2A	3759	1/1	0.96	0.08	69,69,69,69	0
56	MG	2A	3761	1/1	0.96	0.17	37,37,37,37	0
56	MG	1a	1804	1/1	0.96	0.10	59,59,59,59	0
56	MG	2a	1683	1/1	0.96	0.11	58,58,58,58	0
56	MG	1A	3566	1/1	0.96	0.27	36,36,36,36	0
56	MG	2A	3135	1/1	0.96	0.08	45,45,45,45	0
56	MG	2A	3523	1/1	0.96	0.08	76,76,76,76	0
56	MG	1a	1806	1/1	0.96	0.07	65,65,65,65	0
56	MG	1A	3157	1/1	0.96	0.14	58,58,58,58	0
56	MG	2A	3139	1/1	0.96	0.12	49,49,49,49	0
56	MG	1A	3158	1/1	0.96	0.13	24,24,24,24	0
56	MG	1A	3395	1/1	0.96	0.55	40,40,40,40	0
56	MG	2A	3773	1/1	0.96	0.12	55,55,55,55	0
56	MG	1A	3571	1/1	0.96	0.22	31,31,31,31	0
56	MG	1A	3653	1/1	0.96	0.19	22,22,22,22	0
56	MG	2A	3531	1/1	0.96	0.13	41,41,41,41	0
56	MG	1a	1653	1/1	0.96	0.07	47,47,47,47	0
56	MG	2A	3535	1/1	0.96	0.18	39,39,39,39	0
56	MG	2A	3536	1/1	0.96	0.16	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3346	1/1	0.96	0.20	32,32,32,32	0
56	MG	1a	1655	1/1	0.96	0.16	52,52,52,52	0
56	MG	1P	205	1/1	0.96	0.30	42,42,42,42	0
56	MG	2A	3150	1/1	0.96	0.25	39,39,39,39	0
56	MG	1A	3068	1/1	0.96	0.17	33,33,33,33	0
56	MG	1A	3201	1/1	0.96	0.25	32,32,32,32	0
56	MG	1A	4078	1/1	0.96	0.21	51,51,51,51	0
56	MG	1A	3958	1/1	0.96	0.13	55,55,55,55	0
56	MG	1A	3506	1/1	0.96	0.05	75,75,75,75	0
56	MG	2a	1711	1/1	0.96	0.36	59,59,59,59	0
56	MG	2A	3789	1/1	0.96	0.15	44,44,44,44	0
56	MG	2A	3790	1/1	0.96	0.23	44,44,44,44	0
56	MG	1R	201	1/1	0.96	0.24	45,45,45,45	0
56	MG	1a	1664	1/1	0.96	0.09	60,60,60,60	0
56	MG	1A	3049	1/1	0.96	0.18	33,33,33,33	0
56	MG	2a	1718	1/1	0.96	0.15	45,45,45,45	0
56	MG	1a	1666	1/1	0.96	0.08	64,64,64,64	0
56	MG	1A	3021	1/1	0.96	0.19	30,30,30,30	0
56	MG	1A	3510	1/1	0.96	0.41	40,40,40,40	0
56	MG	2A	3798	1/1	0.96	0.07	45,45,45,45	0
56	MG	2A	3800	1/1	0.96	0.19	40,40,40,40	0
56	MG	1A	3511	1/1	0.96	0.73	46,46,46,46	0
56	MG	1A	3757	1/1	0.96	0.26	24,24,24,24	0
56	MG	1A	3665	1/1	0.96	0.19	22,22,22,22	0
56	MG	1T	201	1/1	0.96	0.15	73,73,73,73	0
56	MG	2A	3565	1/1	0.96	0.19	52,52,52,52	0
56	MG	1A	3043	1/1	0.96	0.32	27,27,27,27	0
56	MG	1U	201	1/1	0.96	0.33	34,34,34,34	0
56	MG	1U	202	1/1	0.96	0.34	35,35,35,35	0
56	MG	1a	1676	1/1	0.96	0.18	52,52,52,52	0
56	MG	1A	3760	1/1	0.96	0.11	26,26,26,26	0
56	MG	2A	3572	1/1	0.96	0.24	46,46,46,46	0
56	MG	1U	204	1/1	0.96	0.20	37,37,37,37	0
56	MG	1A	3969	1/1	0.96	0.08	63,63,63,63	0
56	MG	2A	3576	1/1	0.96	0.08	74,74,74,74	0
56	MG	1x	108	1/1	0.96	0.30	58,58,58,58	0
56	MG	1A	3667	1/1	0.96	0.15	22,22,22,22	0
56	MG	1x	110	1/1	0.96	0.35	67,67,67,67	0
56	MG	1U	207	1/1	0.96	0.13	31,31,31,31	0
56	MG	2A	3179	1/1	0.96	0.08	53,53,53,53	0
56	MG	1x	112	1/1	0.96	0.34	59,59,59,59	0
56	MG	1A	3108	1/1	0.96	0.40	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1V	201	1/1	0.96	0.38	37,37,37,37	0
56	MG	1A	3312	1/1	0.96	0.29	44,44,44,44	0
56	MG	1A	3671	1/1	0.96	0.12	38,38,38,38	0
56	MG	2A	3825	1/1	0.96	0.12	47,47,47,47	0
56	MG	2A	3589	1/1	0.96	0.14	54,54,54,54	0
56	MG	1A	3132	1/1	0.96	0.12	42,42,42,42	0
56	MG	1A	3029	1/1	0.96	0.29	29,29,29,29	0
56	MG	2A	3832	1/1	0.96	0.10	58,58,58,58	0
56	MG	1A	3169	1/1	0.96	0.13	39,39,39,39	0
56	MG	1A	3110	1/1	0.96	0.31	29,29,29,29	0
56	MG	1A	3979	1/1	0.96	0.12	53,53,53,53	0
56	MG	1X	101	1/1	0.96	0.59	44,44,44,44	0
56	MG	1A	3980	1/1	0.96	0.10	52,52,52,52	0
56	MG	1a	1693	1/1	0.96	0.27	52,52,52,52	0
56	MG	2A	3839	1/1	0.96	0.26	42,42,42,42	0
56	MG	1a	1694	1/1	0.96	0.22	53,53,53,53	0
56	MG	1A	3519	1/1	0.96	0.05	49,49,49,49	0
56	MG	1A	3982	1/1	0.96	0.15	46,46,46,46	0
56	MG	1A	3408	1/1	0.96	0.11	54,54,54,54	0
56	MG	1A	3137	1/1	0.96	0.11	40,40,40,40	0
56	MG	1B	210	1/1	0.96	0.21	41,41,41,41	0
56	MG	1A	3594	1/1	0.96	0.23	51,51,51,51	0
56	MG	2A	3607	1/1	0.96	0.15	58,58,58,58	0
56	MG	1A	3777	1/1	0.96	0.11	42,42,42,42	0
56	MG	1A	3274	1/1	0.96	0.10	39,39,39,39	0
56	MG	1A	3878	1/1	0.96	0.09	51,51,51,51	0
56	MG	2A	3386	1/1	0.96	0.20	62,62,62,62	0
56	MG	2A	3020	1/1	0.96	0.18	44,44,44,44	0
56	MG	1A	3685	1/1	0.96	0.09	63,63,63,63	0
56	MG	1A	3077	1/1	0.96	0.11	27,27,27,27	0
56	MG	1A	3175	1/1	0.96	0.17	30,30,30,30	0
56	MG	2a	1782	1/1	0.96	0.10	61,61,61,61	0
56	MG	1A	3882	1/1	0.96	0.20	21,21,21,21	0
56	MG	1A	3094	1/1	0.96	0.22	52,52,52,52	0
56	MG	1A	3884	1/1	0.96	0.13	23,23,23,23	0
56	MG	2B	215	1/1	0.96	0.13	61,61,61,61	0
56	MG	1A	3281	1/1	0.96	0.14	29,29,29,29	0
56	MG	2B	217	1/1	0.96	0.18	62,62,62,62	0
56	MG	11	101	1/1	0.96	0.75	43,43,43,43	0
56	MG	2B	219	1/1	0.96	0.08	71,71,71,71	0
56	MG	1A	3024	1/1	0.96	0.27	29,29,29,29	0
56	MG	2D	302	1/1	0.96	0.40	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3284	1/1	0.96	0.21	48,48,48,48	0
56	MG	2A	3033	1/1	0.96	0.19	35,35,35,35	0
56	MG	2D	306	1/1	0.96	0.55	42,42,42,42	0
56	MG	1A	3246	1/1	0.96	0.12	67,67,67,67	0
56	MG	2A	3035	1/1	0.96	0.22	34,34,34,34	0
56	MG	2E	301	1/1	0.96	0.09	52,52,52,52	0
56	MG	2a	1800	1/1	0.96	0.20	57,57,57,57	0
56	MG	2A	3036	1/1	0.96	0.28	44,44,44,44	0
56	MG	1A	3368	1/1	0.96	0.37	47,47,47,47	0
56	MG	2A	3635	1/1	0.96	0.11	70,70,70,70	0
56	MG	1A	3286	1/1	0.96	0.07	31,31,31,31	0
56	MG	2E	308	1/1	0.96	0.20	42,42,42,42	0
56	MG	2A	3405	1/1	0.96	0.40	63,63,63,63	0
56	MG	2A	3406	1/1	0.96	0.17	39,39,39,39	0
56	MG	2F	302	1/1	0.96	0.21	43,43,43,43	0
56	MG	2A	3639	1/1	0.96	0.21	49,49,49,49	0
56	MG	1A	3533	1/1	0.96	0.39	47,47,47,47	0
56	MG	1B	230	1/1	0.96	0.05	71,71,71,71	0
56	MG	1A	3473	1/1	0.96	0.15	42,42,42,42	0
56	MG	1A	3422	1/1	0.96	0.22	35,35,35,35	0
56	MG	1A	4008	1/1	0.96	0.14	65,65,65,65	0
56	MG	2A	3413	1/1	0.96	0.27	36,36,36,36	0
56	MG	2A	3414	1/1	0.96	0.25	58,58,58,58	0
56	MG	1A	3063	1/1	0.96	0.15	63,63,63,63	0
56	MG	2A	3048	1/1	0.96	0.10	40,40,40,40	0
56	MG	1A	3424	1/1	0.96	0.20	41,41,41,41	0
56	MG	2Q	202	1/1	0.96	0.24	50,50,50,50	0
56	MG	15	106	1/1	0.96	0.31	43,43,43,43	0
56	MG	2A	3420	1/1	0.96	0.17	50,50,50,50	0
56	MG	2A	3052	1/1	0.96	0.22	30,30,30,30	0
56	MG	1a	1731	1/1	0.96	0.12	59,59,59,59	0
56	MG	2R	204	1/1	0.96	0.17	48,48,48,48	0
56	MG	2A	3054	1/1	0.96	0.14	44,44,44,44	0
56	MG	2f	201	1/1	0.96	0.23	43,43,43,43	0
56	MG	1A	3425	1/1	0.96	0.24	49,49,49,49	0
56	MG	15	108	1/1	0.96	0.14	47,47,47,47	0
56	MG	1a	1735	1/1	0.96	0.18	39,39,39,39	0
56	MG	2A	3428	1/1	0.96	0.26	62,62,62,62	0
56	MG	2V	202	1/1	0.96	0.08	56,56,56,56	0
56	MG	2l	204	1/1	0.96	0.14	68,68,68,68	0
56	MG	1A	3614	1/1	0.96	0.09	38,38,38,38	0
56	MG	1D	303	1/1	0.96	0.32	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	3902	1/1	0.96	0.21	34,34,34,34	0
56	MG	2q	203	1/1	0.96	0.15	66,66,66,66	0
56	MG	2A	3245	1/1	0.96	0.25	44,44,44,44	0
56	MG	1A	3248	1/1	0.96	0.31	50,50,50,50	0
56	MG	1D	307	1/1	0.96	0.23	28,28,28,28	0
56	MG	2v	103	1/1	0.96	0.27	50,50,50,50	0
56	MG	1A	3708	1/1	0.96	0.20	32,32,32,32	0
56	MG	1A	4016	1/1	0.96	0.12	45,45,45,45	0
56	MG	21	101	1/1	0.96	0.17	55,55,55,55	0
56	MG	1A	3906	1/1	0.96	0.22	33,33,33,33	0
56	MG	2A	3438	1/1	0.96	0.21	56,56,56,56	0
56	MG	1A	3804	1/1	0.96	0.14	57,57,57,57	0
56	MG	1A	3372	1/1	0.96	0.15	46,46,46,46	0
56	MG	1A	3912	1/1	0.96	0.06	47,47,47,47	0
56	MG	1A	3710	1/1	0.96	0.20	45,45,45,45	0
56	MG	1A	3711	1/1	0.96	0.22	48,48,48,48	0
56	MG	2A	3073	1/1	0.96	0.09	55,55,55,55	0
56	MG	1A	3915	1/1	0.96	0.24	42,42,42,42	0
56	MG	27	103	1/1	0.96	0.45	52,52,52,52	0
56	MG	2A	3679	1/1	0.96	0.10	65,65,65,65	0
56	MG	1A	3809	1/1	0.96	0.21	54,54,54,54	0
56	MG	1A	3917	1/1	0.96	0.20	52,52,52,52	0
56	MG	1A	3810	1/1	0.96	0.12	37,37,37,37	0
56	MG	2A	3450	1/1	0.96	0.26	58,58,58,58	0
56	MG	2A	3263	1/1	0.96	0.18	57,57,57,57	0
56	MG	1A	3329	1/1	0.96	0.11	38,38,38,38	0
56	MG	2a	1606	1/1	0.96	0.09	56,56,56,56	0
56	MG	1E	310	1/1	0.96	0.16	17,17,17,17	0
56	MG	2A	3687	1/1	0.96	0.12	53,53,53,53	0
56	MG	2A	3081	1/1	0.96	0.32	57,57,57,57	0
56	MG	2A	3082	1/1	0.96	0.18	50,50,50,50	0
59	ZN	29	501	1/1	0.96	0.10	72,72,72,72	0
56	MG	1a	1757	1/1	0.96	0.13	46,46,46,46	0
56	MG	2a	1664	1/1	0.97	0.26	44,44,44,44	0
56	MG	2A	3622	1/1	0.97	0.28	51,51,51,51	0
56	MG	1A	3609	1/1	0.97	0.17	10,10,10,10	0
56	MG	2A	3624	1/1	0.97	0.12	49,49,49,49	0
56	MG	1A	3185	1/1	0.97	0.12	32,32,32,32	0
56	MG	1A	3686	1/1	0.97	0.25	27,27,27,27	0
56	MG	1A	3409	1/1	0.97	0.22	40,40,40,40	0
56	MG	1A	3764	1/1	0.97	0.22	26,26,26,26	0
56	MG	2a	1673	1/1	0.97	0.14	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3146	1/1	0.97	0.29	61,61,61,61	0
56	MG	2A	3631	1/1	0.97	0.21	37,37,37,37	0
56	MG	2a	1676	1/1	0.97	0.10	56,56,56,56	0
56	MG	2a	1677	1/1	0.97	0.22	59,59,59,59	0
56	MG	1A	3502	1/1	0.97	0.17	32,32,32,32	0
56	MG	2A	3148	1/1	0.97	0.20	35,35,35,35	0
56	MG	2A	3634	1/1	0.97	0.11	51,51,51,51	0
56	MG	1A	3034	1/1	0.97	0.29	29,29,29,29	0
56	MG	1A	3767	1/1	0.97	0.15	47,47,47,47	0
56	MG	1A	3856	1/1	0.97	0.25	27,27,27,27	0
56	MG	1A	3556	1/1	0.97	0.28	52,52,52,52	0
56	MG	1a	1721	1/1	0.97	0.08	62,62,62,62	0
56	MG	1A	3769	1/1	0.97	0.20	25,25,25,25	0
56	MG	1A	3253	1/1	0.97	0.25	45,45,45,45	0
56	MG	1A	3071	1/1	0.97	0.15	11,11,11,11	0
56	MG	1a	1602	1/1	0.97	0.09	64,64,64,64	0
56	MG	2A	3827	1/1	0.97	0.19	55,55,55,55	0
56	MG	1A	4062	1/1	0.97	0.21	31,31,31,31	0
56	MG	2a	1693	1/1	0.97	0.19	59,59,59,59	0
56	MG	2A	3646	1/1	0.97	0.21	59,59,59,59	0
56	MG	2A	3831	1/1	0.97	0.33	57,57,57,57	0
56	MG	2A	3160	1/1	0.97	0.18	47,47,47,47	0
56	MG	1A	3189	1/1	0.97	0.25	37,37,37,37	0
56	MG	1A	3773	1/1	0.97	0.23	25,25,25,25	0
56	MG	1a	1606	1/1	0.97	0.24	54,54,54,54	0
56	MG	1a	1732	1/1	0.97	0.18	48,48,48,48	0
56	MG	1A	3961	1/1	0.97	0.09	60,60,60,60	0
56	MG	1A	3864	1/1	0.97	0.28	38,38,38,38	0
56	MG	1A	4067	1/1	0.97	0.11	46,46,46,46	0
56	MG	1A	3293	1/1	0.97	0.10	38,38,38,38	0
56	MG	1A	3624	1/1	0.97	0.18	27,27,27,27	0
56	MG	1A	3868	1/1	0.97	0.22	41,41,41,41	0
56	MG	1A	3135	1/1	0.97	0.38	30,30,30,30	0
56	MG	1A	3870	1/1	0.97	0.13	40,40,40,40	0
56	MG	1a	1741	1/1	0.97	0.21	53,53,53,53	0
56	MG	2A	3027	1/1	0.97	0.09	51,51,51,51	0
56	MG	1A	4073	1/1	0.97	0.14	52,52,52,52	0
56	MG	1A	4074	1/1	0.97	0.10	53,53,53,53	0
56	MG	1A	3626	1/1	0.97	0.11	44,44,44,44	0
56	MG	1A	3191	1/1	0.97	0.09	42,42,42,42	0
56	MG	1A	3701	1/1	0.97	0.11	47,47,47,47	0
56	MG	1A	3035	1/1	0.97	0.48	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3193	1/1	0.97	0.48	30,30,30,30	0
56	MG	1A	3160	1/1	0.97	0.44	36,36,36,36	0
56	MG	1A	3022	1/1	0.97	0.18	37,37,37,37	0
56	MG	1A	3421	1/1	0.97	0.28	44,44,44,44	0
56	MG	1A	3120	1/1	0.97	0.47	42,42,42,42	0
56	MG	2B	213	1/1	0.97	0.19	66,66,66,66	0
56	MG	1A	3301	1/1	0.97	0.21	35,35,35,35	0
56	MG	1a	1628	1/1	0.97	0.09	51,51,51,51	0
56	MG	2A	3190	1/1	0.97	0.09	65,65,65,65	0
56	MG	1A	3636	1/1	0.97	0.18	24,24,24,24	0
56	MG	2A	3677	1/1	0.97	0.22	33,33,33,33	0
56	MG	1A	3302	1/1	0.97	0.19	29,29,29,29	0
56	MG	1A	3712	1/1	0.97	0.22	31,31,31,31	0
56	MG	1A	3574	1/1	0.97	0.15	41,41,41,41	0
56	MG	1A	3795	1/1	0.97	0.17	19,19,19,19	0
56	MG	1a	1762	1/1	0.97	0.12	60,60,60,60	0
56	MG	2D	305	1/1	0.97	0.26	25,25,25,25	0
56	MG	1A	4091	1/1	0.97	0.19	65,65,65,65	0
56	MG	1A	3984	1/1	0.97	0.14	44,44,44,44	0
56	MG	1A	3037	1/1	0.97	0.28	37,37,37,37	0
56	MG	1A	3038	1/1	0.97	0.16	24,24,24,24	0
56	MG	1A	3988	1/1	0.97	0.18	23,23,23,23	0
56	MG	2E	303	1/1	0.97	0.12	49,49,49,49	0
56	MG	2A	3203	1/1	0.97	0.13	52,52,52,52	0
56	MG	2E	305	1/1	0.97	0.15	36,36,36,36	0
56	MG	1A	3382	1/1	0.97	0.20	43,43,43,43	0
56	MG	1A	3522	1/1	0.97	0.14	40,40,40,40	0
56	MG	2A	3512	1/1	0.97	0.06	71,71,71,71	0
56	MG	1R	206	1/1	0.97	0.29	28,28,28,28	0
56	MG	1A	3039	1/1	0.97	0.55	43,43,43,43	0
56	MG	1A	3720	1/1	0.97	0.06	37,37,37,37	0
56	MG	2A	3062	1/1	0.97	0.22	27,27,27,27	0
56	MG	2A	3696	1/1	0.97	0.20	44,44,44,44	0
56	MG	1A	3802	1/1	0.97	0.17	48,48,48,48	0
56	MG	2A	3518	1/1	0.97	0.11	54,54,54,54	0
56	MG	2F	307	1/1	0.97	0.28	39,39,39,39	0
56	MG	1a	1645	1/1	0.97	0.10	52,52,52,52	0
56	MG	2a	1756	1/1	0.97	0.26	39,39,39,39	0
56	MG	1A	3266	1/1	0.97	0.18	44,44,44,44	0
56	MG	1a	1777	1/1	0.97	0.08	68,68,68,68	0
56	MG	2A	3362	1/1	0.97	0.10	59,59,59,59	0
56	MG	2a	1760	1/1	0.97	0.17	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3896	1/1	0.97	0.18	53,53,53,53	0
56	MG	1a	1648	1/1	0.97	0.19	61,61,61,61	0
56	MG	1A	3722	1/1	0.97	0.16	27,27,27,27	0
56	MG	1A	3307	1/1	0.97	0.19	39,39,39,39	0
56	MG	2a	1765	1/1	0.97	0.13	52,52,52,52	0
56	MG	2A	3707	1/1	0.97	0.17	39,39,39,39	0
56	MG	2a	1768	1/1	0.97	0.19	60,60,60,60	0
56	MG	2Q	204	1/1	0.97	0.25	57,57,57,57	0
56	MG	2A	3708	1/1	0.97	0.25	41,41,41,41	0
56	MG	1A	3582	1/1	0.97	0.25	33,33,33,33	0
56	MG	2A	3710	1/1	0.97	0.14	37,37,37,37	0
56	MG	1A	3167	1/1	0.97	0.25	38,38,38,38	0
56	MG	2T	201	1/1	0.97	0.28	61,61,61,61	0
56	MG	1A	3808	1/1	0.97	0.11	24,24,24,24	0
56	MG	2A	3713	1/1	0.97	0.09	69,69,69,69	0
56	MG	2A	3532	1/1	0.97	0.21	45,45,45,45	0
56	MG	2A	3533	1/1	0.97	0.18	48,48,48,48	0
56	MG	1A	3027	1/1	0.97	0.09	47,47,47,47	0
56	MG	1A	3388	1/1	0.97	0.26	27,27,27,27	0
56	MG	2A	3077	1/1	0.97	0.20	59,59,59,59	0
56	MG	1a	1787	1/1	0.97	0.16	45,45,45,45	0
56	MG	1a	1656	1/1	0.97	0.27	57,57,57,57	0
56	MG	2A	3540	1/1	0.97	0.25	40,40,40,40	0
56	MG	1A	3389	1/1	0.97	0.14	45,45,45,45	0
56	MG	2A	3542	1/1	0.97	0.15	39,39,39,39	0
56	MG	1A	3023	1/1	0.97	0.16	12,12,12,12	0
56	MG	1A	3482	1/1	0.97	0.08	56,56,56,56	0
56	MG	2A	3545	1/1	0.97	0.14	59,59,59,59	0
56	MG	23	101	1/1	0.97	0.11	50,50,50,50	0
56	MG	1V	205	1/1	0.97	0.12	31,31,31,31	0
56	MG	1A	3910	1/1	0.97	0.08	65,65,65,65	0
56	MG	2A	3085	1/1	0.97	0.22	46,46,46,46	0
56	MG	25	103	1/1	0.97	0.40	50,50,50,50	0
56	MG	1a	1795	1/1	0.97	0.12	54,54,54,54	0
56	MG	1B	219	1/1	0.97	0.27	53,53,53,53	0
56	MG	2A	3552	1/1	0.97	0.25	37,37,37,37	0
56	MG	1A	3911	1/1	0.97	0.14	48,48,48,48	0
56	MG	2A	3235	1/1	0.97	0.15	50,50,50,50	0
56	MG	2A	3738	1/1	0.97	0.10	61,61,61,61	0
56	MG	1A	3126	1/1	0.97	0.32	34,34,34,34	0
56	MG	2A	3387	1/1	0.97	0.32	64,64,64,64	0
56	MG	2a	1805	1/1	0.97	0.12	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1W	204	1/1	0.97	0.25	37,37,37,37	0
56	MG	1A	3484	1/1	0.97	0.37	38,38,38,38	0
56	MG	2A	3560	1/1	0.97	0.13	63,63,63,63	0
56	MG	2a	1602	1/1	0.97	0.27	73,73,73,73	0
56	MG	2A	3094	1/1	0.97	0.21	49,49,49,49	0
56	MG	1A	3591	1/1	0.97	0.38	44,44,44,44	0
56	MG	1A	3735	1/1	0.97	0.10	16,16,16,16	0
56	MG	1A	3659	1/1	0.97	0.18	29,29,29,29	0
56	MG	1A	3660	1/1	0.97	0.14	22,22,22,22	0
56	MG	1A	3011	1/1	0.97	0.14	46,46,46,46	0
56	MG	1X	107	1/1	0.97	0.12	52,52,52,52	0
56	MG	1A	3535	1/1	0.97	0.25	43,43,43,43	0
56	MG	2A	3752	1/1	0.97	0.06	68,68,68,68	0
56	MG	1A	3148	1/1	0.97	0.17	27,27,27,27	0
56	MG	2A	3249	1/1	0.97	0.23	55,55,55,55	0
56	MG	2A	3573	1/1	0.97	0.15	61,61,61,61	0
56	MG	1A	3741	1/1	0.97	0.17	59,59,59,59	0
56	MG	1Y	204	1/1	0.97	0.48	52,52,52,52	0
56	MG	1b	301	1/1	0.97	0.09	66,66,66,66	0
56	MG	1Y	205	1/1	0.97	0.16	61,61,61,61	0
56	MG	2A	3760	1/1	0.97	0.17	66,66,66,66	0
56	MG	1A	3173	1/1	0.97	0.39	33,33,33,33	0
56	MG	1A	3083	1/1	0.97	0.17	28,28,28,28	0
56	MG	2A	3763	1/1	0.97	0.18	64,64,64,64	0
56	MG	1A	3744	1/1	0.97	0.12	20,20,20,20	0
56	MG	1A	3176	1/1	0.97	0.21	27,27,27,27	0
56	MG	2l	201	1/1	0.97	0.25	62,62,62,62	0
56	MG	1k	201	1/1	0.97	0.17	47,47,47,47	0
56	MG	1A	3178	1/1	0.97	0.19	36,36,36,36	0
56	MG	1A	3278	1/1	0.97	0.21	24,24,24,24	0
56	MG	1D	301	1/1	0.97	0.23	32,32,32,32	0
56	MG	1A	3930	1/1	0.97	0.13	45,45,45,45	0
56	MG	1A	4027	1/1	0.97	0.16	38,38,38,38	0
56	MG	1A	4029	1/1	0.97	0.23	32,32,32,32	0
56	MG	2A	3591	1/1	0.97	0.15	61,61,61,61	0
56	MG	1D	305	1/1	0.97	0.21	18,18,18,18	0
56	MG	2A	3417	1/1	0.97	0.25	50,50,50,50	0
56	MG	10	108	1/1	0.97	0.05	44,44,44,44	0
56	MG	1A	3357	1/1	0.97	0.10	60,60,60,60	0
56	MG	2A	3121	1/1	0.97	0.14	40,40,40,40	0
56	MG	2w	103	1/1	0.97	0.31	83,83,83,83	0
56	MG	1A	3672	1/1	0.97	0.14	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1D	308	1/1	0.97	0.18	32,32,32,32	0
56	MG	1A	3211	1/1	0.97	0.18	31,31,31,31	0
56	MG	1A	3008	1/1	0.97	0.20	25,25,25,25	0
56	MG	2A	3274	1/1	0.97	0.06	62,62,62,62	0
56	MG	1A	3675	1/1	0.97	0.23	20,20,20,20	0
56	MG	2A	3603	1/1	0.97	0.24	46,46,46,46	0
56	MG	2A	3427	1/1	0.97	0.17	60,60,60,60	0
56	MG	1A	3936	1/1	0.97	0.17	48,48,48,48	0
56	MG	1A	3114	1/1	0.97	0.17	36,36,36,36	0
56	MG	1A	4038	1/1	0.97	0.19	63,63,63,63	0
56	MG	1a	1699	1/1	0.97	0.20	60,60,60,60	0
56	MG	1A	3152	1/1	0.97	0.17	32,32,32,32	0
56	MG	2a	1652	1/1	0.97	0.57	57,57,57,57	0
56	MG	1A	3939	1/1	0.97	0.13	58,58,58,58	0
56	MG	1A	3153	1/1	0.97	0.21	36,36,36,36	0
56	MG	1A	3680	1/1	0.97	0.17	27,27,27,27	0
56	MG	1A	3031	1/1	0.97	0.24	26,26,26,26	0
57	K	2A	3459	1/1	0.97	0.14	73,73,73,73	0
56	MG	1A	4044	1/1	0.97	0.12	22,22,22,22	0
56	MG	2A	3287	1/1	0.97	0.45	69,69,69,69	0
56	MG	2A	3616	1/1	0.97	0.12	52,52,52,52	0
56	MG	1A	3155	1/1	0.97	0.52	36,36,36,36	0
56	MG	2A	3138	1/1	0.97	0.26	55,55,55,55	0
56	MG	1A	3550	1/1	0.97	0.15	29,29,29,29	0
56	MG	1E	311	1/1	0.97	0.20	22,22,22,22	0
56	MG	1A	3989	1/1	0.98	0.08	38,38,38,38	0
56	MG	1V	203	1/1	0.98	0.23	28,28,28,28	0
56	MG	1A	3073	1/1	0.98	0.34	30,30,30,30	0
56	MG	1A	3105	1/1	0.98	0.31	32,32,32,32	0
56	MG	1F	302	1/1	0.98	0.26	26,26,26,26	0
56	MG	1A	3144	1/1	0.98	0.19	24,24,24,24	0
56	MG	1A	3133	1/1	0.98	0.17	43,43,43,43	0
56	MG	1a	1760	1/1	0.98	0.07	62,62,62,62	0
56	MG	1B	208	1/1	0.98	0.11	54,54,54,54	0
56	MG	1A	3815	1/1	0.98	0.12	42,42,42,42	0
56	MG	1W	205	1/1	0.98	0.10	39,39,39,39	0
56	MG	1A	3780	1/1	0.98	0.17	21,21,21,21	0
56	MG	2A	3641	1/1	0.98	0.23	65,65,65,65	0
56	MG	2a	1766	1/1	0.98	0.11	55,55,55,55	0
56	MG	1A	4050	1/1	0.98	0.19	24,24,24,24	0
56	MG	1A	3898	1/1	0.98	0.20	49,49,49,49	0
56	MG	1A	4052	1/1	0.98	0.11	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1770	1/1	0.98	0.09	63,63,63,63	0
56	MG	1X	103	1/1	0.98	0.13	38,38,38,38	0
56	MG	1X	104	1/1	0.98	0.55	43,43,43,43	0
56	MG	2A	3539	1/1	0.98	0.23	31,31,31,31	0
56	MG	1A	3238	1/1	0.98	0.18	32,32,32,32	0
56	MG	2A	3086	1/1	0.98	0.47	45,45,45,45	0
56	MG	2A	3260	1/1	0.98	0.13	65,65,65,65	0
56	MG	1A	3080	1/1	0.98	0.14	23,23,23,23	0
56	MG	2A	3088	1/1	0.98	0.23	32,32,32,32	0
56	MG	1B	216	1/1	0.98	0.11	58,58,58,58	0
56	MG	2A	3004	1/1	0.98	0.14	48,48,48,48	0
56	MG	1A	3633	1/1	0.98	0.10	15,15,15,15	0
56	MG	1A	3074	1/1	0.98	0.16	16,16,16,16	0
56	MG	2a	1783	1/1	0.98	0.15	62,62,62,62	0
56	MG	1A	3903	1/1	0.98	0.15	23,23,23,23	0
56	MG	2A	3449	1/1	0.98	0.40	53,53,53,53	0
56	MG	2A	3551	1/1	0.98	0.17	57,57,57,57	0
56	MG	1A	3785	1/1	0.98	0.13	17,17,17,17	0
56	MG	1A	3786	1/1	0.98	0.15	17,17,17,17	0
56	MG	2a	1667	1/1	0.98	0.14	43,43,43,43	0
56	MG	2A	3452	1/1	0.98	0.11	38,38,38,38	0
56	MG	1a	1700	1/1	0.98	0.14	57,57,57,57	0
56	MG	1A	3787	1/1	0.98	0.16	24,24,24,24	0
56	MG	2A	3557	1/1	0.98	0.17	57,57,57,57	0
56	MG	2A	3183	1/1	0.98	0.10	65,65,65,65	0
56	MG	1A	3907	1/1	0.98	0.15	39,39,39,39	0
56	MG	1A	3955	1/1	0.98	0.26	43,43,43,43	0
56	MG	1A	3863	1/1	0.98	0.17	31,31,31,31	0
56	MG	2A	3276	1/1	0.98	0.17	47,47,47,47	0
56	MG	1A	3663	1/1	0.98	0.09	34,34,34,34	0
56	MG	2A	3564	1/1	0.98	0.17	36,36,36,36	0
56	MG	2A	3188	1/1	0.98	0.25	30,30,30,30	0
56	MG	1A	3694	1/1	0.98	0.13	11,11,11,11	0
56	MG	1A	3012	1/1	0.98	0.10	30,30,30,30	0
56	MG	2A	3568	1/1	0.98	0.19	33,33,33,33	0
56	MG	1A	3867	1/1	0.98	0.25	36,36,36,36	0
56	MG	2a	1684	1/1	0.98	0.27	50,50,50,50	0
56	MG	1A	3610	1/1	0.98	0.14	32,32,32,32	0
56	MG	2A	3373	1/1	0.98	0.16	52,52,52,52	0
56	MG	1A	3226	1/1	0.98	0.17	28,28,28,28	0
56	MG	1A	3612	1/1	0.98	0.10	53,53,53,53	0
56	MG	1A	3830	1/1	0.98	0.12	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3070	1/1	0.98	0.22	17,17,17,17	0
56	MG	1A	4017	1/1	0.98	0.13	24,24,24,24	0
56	MG	2A	3198	1/1	0.98	0.29	54,54,54,54	0
56	MG	2A	3799	1/1	0.98	0.26	36,36,36,36	0
56	MG	1A	3833	1/1	0.98	0.10	58,58,58,58	0
56	MG	2X	101	1/1	0.98	0.18	59,59,59,59	0
56	MG	1a	1716	1/1	0.98	0.20	44,44,44,44	0
56	MG	2A	3580	1/1	0.98	0.18	32,32,32,32	0
56	MG	2A	3581	1/1	0.98	0.12	39,39,39,39	0
56	MG	20	102	1/1	0.98	0.15	52,52,52,52	0
56	MG	1A	3572	1/1	0.98	0.14	29,29,29,29	0
56	MG	1A	3920	1/1	0.98	0.13	13,13,13,13	0
56	MG	1P	204	1/1	0.98	0.06	40,40,40,40	0
56	MG	1A	3616	1/1	0.98	0.14	43,43,43,43	0
56	MG	1A	3733	1/1	0.98	0.14	31,31,31,31	0
56	MG	13	101	1/1	0.98	0.14	31,31,31,31	0
56	MG	1a	1723	1/1	0.98	0.27	47,47,47,47	0
56	MG	13	102	1/1	0.98	0.40	45,45,45,45	0
56	MG	1A	3923	1/1	0.98	0.15	32,32,32,32	0
56	MG	1A	3276	1/1	0.98	0.10	48,48,48,48	0
56	MG	2A	3486	1/1	0.98	0.21	43,43,43,43	0
56	MG	1A	3973	1/1	0.98	0.19	19,19,19,19	0
56	MG	2A	3039	1/1	0.98	0.27	52,52,52,52	0
56	MG	2A	3040	1/1	0.98	0.29	47,47,47,47	0
56	MG	2A	3041	1/1	0.98	0.12	37,37,37,37	0
56	MG	1a	1728	1/1	0.98	0.23	54,54,54,54	0
56	MG	1A	3199	1/1	0.98	0.27	25,25,25,25	0
56	MG	2A	3493	1/1	0.98	0.24	43,43,43,43	0
56	MG	2A	3494	1/1	0.98	0.13	48,48,48,48	0
56	MG	1A	3033	1/1	0.98	0.30	26,26,26,26	0
56	MG	1R	202	1/1	0.98	0.19	43,43,43,43	0
56	MG	1A	4028	1/1	0.98	0.17	31,31,31,31	0
56	MG	1A	3646	1/1	0.98	0.17	33,33,33,33	0
56	MG	1A	3554	1/1	0.98	0.23	49,49,49,49	0
56	MG	2A	3828	1/1	0.98	0.16	40,40,40,40	0
56	MG	1A	4031	1/1	0.98	0.12	38,38,38,38	0
56	MG	1A	4088	1/1	0.98	0.16	59,59,59,59	0
56	MG	2A	3716	1/1	0.98	0.16	39,39,39,39	0
56	MG	2A	3051	1/1	0.98	0.16	49,49,49,49	0
56	MG	1A	3677	1/1	0.98	0.11	28,28,28,28	0
56	MG	1A	3174	1/1	0.98	0.18	25,25,25,25	0
56	MG	1A	3280	1/1	0.98	0.18	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3721	1/1	0.98	0.22	48,48,48,48	0
56	MG	1A	3623	1/1	0.98	0.13	18,18,18,18	0
56	MG	2A	3507	1/1	0.98	0.12	48,48,48,48	0
56	MG	2A	3508	1/1	0.98	0.12	44,44,44,44	0
56	MG	2a	1619	1/1	0.98	0.07	74,74,74,74	0
56	MG	1A	3188	1/1	0.98	0.26	40,40,40,40	0
56	MG	1E	307	1/1	0.98	0.12	25,25,25,25	0
56	MG	1A	3847	1/1	0.98	0.13	32,32,32,32	0
56	MG	18	102	1/1	0.98	0.21	47,47,47,47	0
56	MG	18	103	1/1	0.98	0.30	43,43,43,43	0
56	MG	2A	3620	1/1	0.98	0.15	37,37,37,37	0
56	MG	1A	3085	1/1	0.98	0.15	34,34,34,34	0
56	MG	1A	3889	1/1	0.98	0.18	25,25,25,25	0
56	MG	1A	3986	1/1	0.98	0.13	11,11,11,11	0
56	MG	1A	3040	1/1	0.98	0.29	28,28,28,28	0
59	ZN	1n	103	1/1	0.98	0.12	66,66,66,66	0
56	MG	2A	3625	1/1	0.98	0.12	43,43,43,43	0
56	MG	1U	208	1/1	0.98	0.41	30,30,30,30	0
56	MG	1A	3891	1/1	0.98	0.21	45,45,45,45	0
56	MG	2A	3520	1/1	0.98	0.16	31,31,31,31	0
56	MG	1V	202	1/1	0.99	0.34	31,31,31,31	0
56	MG	2A	3244	1/1	0.99	0.15	58,58,58,58	0
56	MG	2A	3071	1/1	0.99	0.24	51,51,51,51	0
56	MG	1A	3651	1/1	0.99	0.14	26,26,26,26	0
56	MG	1A	3507	1/1	0.99	0.41	32,32,32,32	0
56	MG	1A	3177	1/1	0.99	0.18	18,18,18,18	0
56	MG	1A	3670	1/1	0.99	0.18	27,27,27,27	0
56	MG	2l	205	1/1	0.99	0.23	67,67,67,67	0
56	MG	1A	3706	1/1	0.99	0.15	26,26,26,26	0
56	MG	1a	1794	1/1	0.99	0.14	58,58,58,58	0
56	MG	2a	1706	1/1	0.99	0.16	57,57,57,57	0
56	MG	1A	3032	1/1	0.99	0.17	27,27,27,27	0
56	MG	1A	3465	1/1	0.99	0.16	60,60,60,60	0
56	MG	1A	3690	1/1	0.99	0.18	28,28,28,28	0
56	MG	1A	3140	1/1	0.99	0.16	16,16,16,16	0
56	MG	1A	3832	1/1	0.99	0.13	38,38,38,38	0
56	MG	2A	3151	1/1	0.99	0.26	58,58,58,58	0
56	MG	1A	3390	1/1	0.99	0.17	30,30,30,30	0
56	MG	1A	3812	1/1	0.99	0.12	34,34,34,34	0
56	MG	2A	3797	1/1	0.99	0.24	47,47,47,47	0
56	MG	2a	1716	1/1	0.99	0.19	64,64,64,64	0
56	MG	2A	3521	1/1	0.99	0.12	41,41,41,41	0

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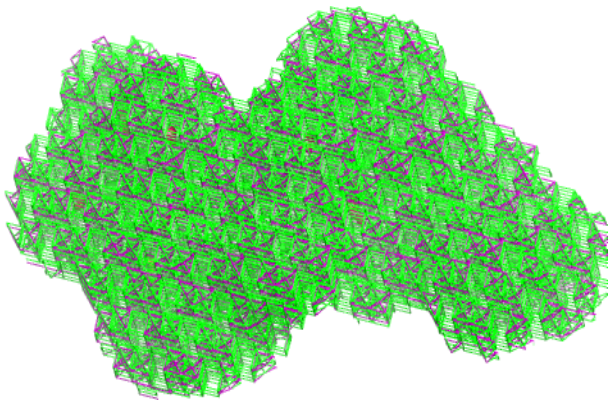
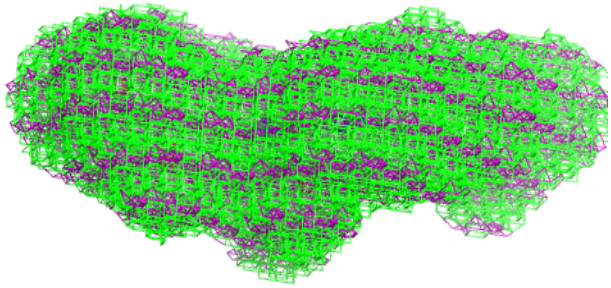
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1a	1624	1/1	0.99	0.21	49,49,49,49	0
56	MG	1A	3161	1/1	0.99	0.40	34,34,34,34	0
56	MG	1A	3713	1/1	0.99	0.19	17,17,17,17	0
56	MG	1A	3615	1/1	0.99	0.17	29,29,29,29	0
56	MG	1A	3644	1/1	0.99	0.11	46,46,46,46	0
56	MG	2a	1811	1/1	0.99	0.12	60,60,60,60	0
56	MG	1a	1775	1/1	0.99	0.36	50,50,50,50	0
56	MG	2A	3412	1/1	0.99	0.40	45,45,45,45	0
56	MG	1A	3003	1/1	0.99	0.19	23,23,23,23	0
56	MG	1F	309	1/1	0.99	0.34	31,31,31,31	0
56	MG	1A	3058	1/1	0.99	0.12	25,25,25,25	0
56	MG	2A	3727	1/1	0.99	0.10	69,69,69,69	0
56	MG	1A	3430	1/1	0.99	0.29	43,43,43,43	0
56	MG	1A	3098	1/1	0.99	0.16	19,19,19,19	0
56	MG	1a	1750	1/1	0.99	0.21	51,51,51,51	0
56	MG	2A	3771	1/1	0.99	0.18	41,41,41,41	0
56	MG	15	101	1/1	0.99	0.30	35,35,35,35	0
56	MG	2A	3031	1/1	0.99	0.33	34,34,34,34	0
59	ZN	1Y	206	1/1	0.99	0.10	75,75,75,75	0
56	MG	1E	304	1/1	0.99	0.22	27,27,27,27	0
59	ZN	16	102	1/1	0.99	0.17	44,44,44,44	0
59	ZN	19	102	1/1	0.99	0.17	42,42,42,42	0
56	MG	1A	3282	1/1	0.99	0.31	30,30,30,30	0
56	MG	15	104	1/1	0.99	0.30	29,29,29,29	0
56	MG	2A	3349	1/1	0.99	0.13	67,67,67,67	0
59	ZN	25	107	1/1	0.99	0.18	55,55,55,55	0
59	ZN	26	102	1/1	0.99	0.12	61,61,61,61	0
56	MG	1A	3568	1/1	0.99	0.54	33,33,33,33	0
56	MG	1Q	202	1/1	0.99	0.12	31,31,31,31	0
60	SF4	1d	302	8/8	0.99	0.17	60,64,69,72	0
60	SF4	2d	303	8/8	0.99	0.15	52,65,72,78	0
59	ZN	15	111	1/1	1.00	0.20	47,47,47,47	0

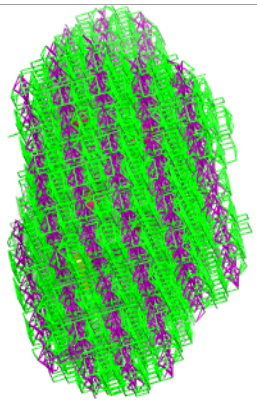
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around WC9 1A 4098:

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

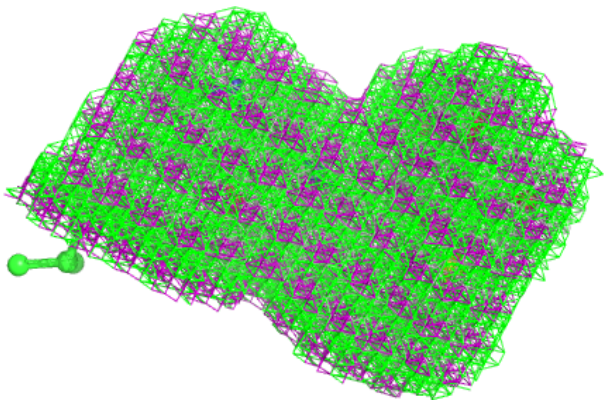


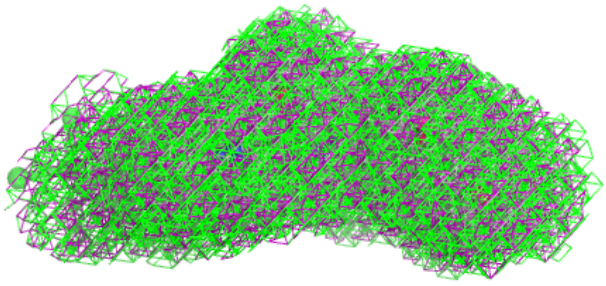


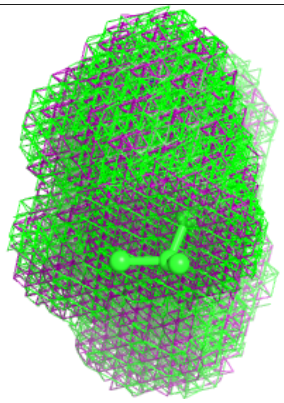


Electron density around WC9 2A 3846:

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







6.5 Other polymers (i)

There are no such residues in this entry.