Full wwPDB X-ray Structure Validation Report (i)

Nov 5, 2023 – 03:56 AM EST

PDB ID	:	6CFJ
Title	:	Crystal structure of the Thermus thermophilus 70S ribosome in complex with histidyl-CAM and bound to mRNA and A-, P-, and E-site tRNAs at 2.8A resolution
Authors	:	Tereshchenkov, A.G.; Dobosz-Bartoszek, M.; Osterman, I.A.; Marks, J.; Sergeeva, V.A.; Kasatsky, P.; Komarova, E.S.; Stavrianidi, A.N.; Rodin, I.A.; Konevega, A.L.; Sergiev, P.V.; Sumbatyan, N.V.; Mankin, A.S.; Bogdanov, A.A.; Polikanov, Y.S.
Deposited on	:	2018-02-15
Resolution	:	2.80 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:

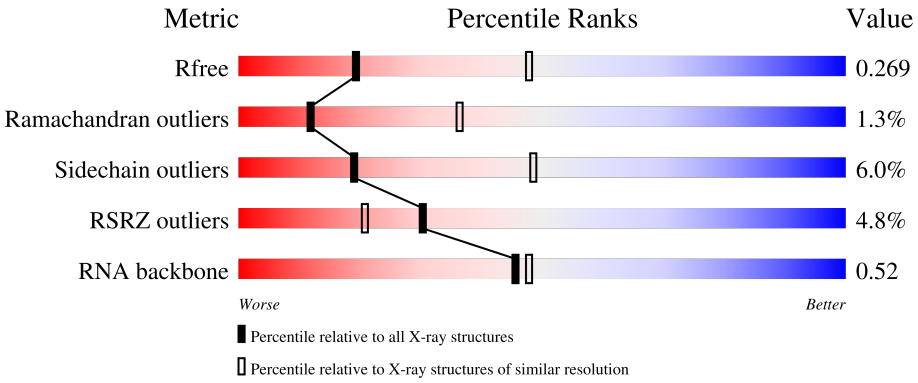
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)

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 2.80 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3140 (2.80-2.80)
Ramachandran outliers	138981	3498 (2.80-2.80)
Sidechain outliers	138945	3500 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)
RNA backbone	3102	1227 (3.10-2.50)

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	% 81% 17%
1	2A	2915	77% 18%
2	1B	121	88% 11%

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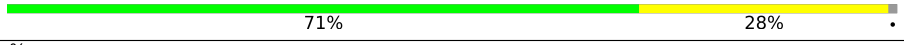
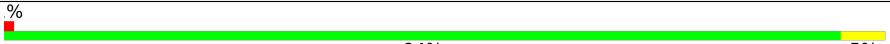
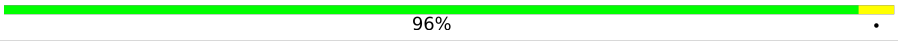
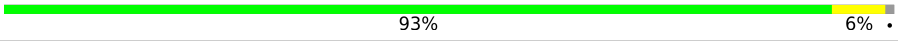
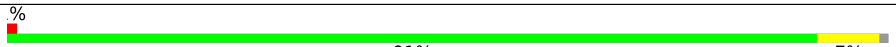
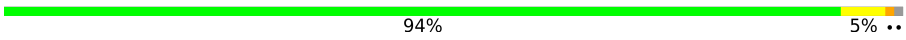
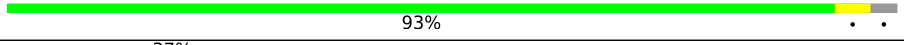
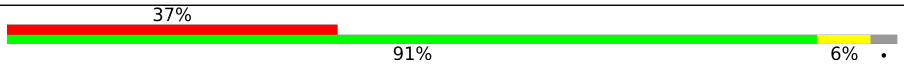
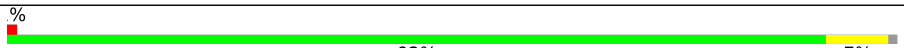
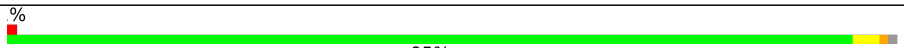
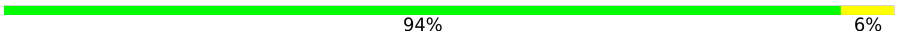
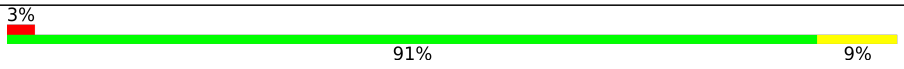
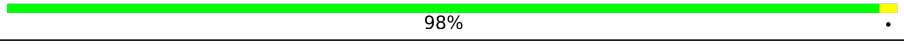
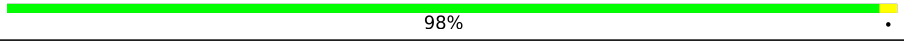
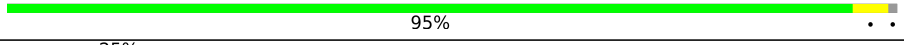
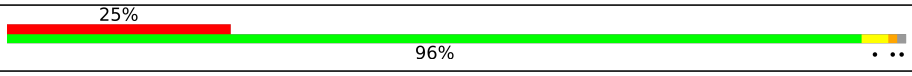
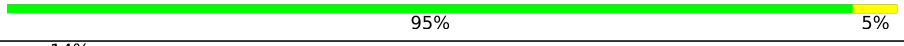
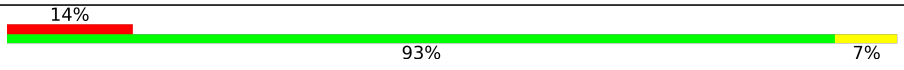
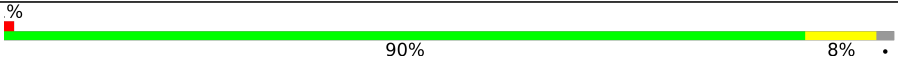
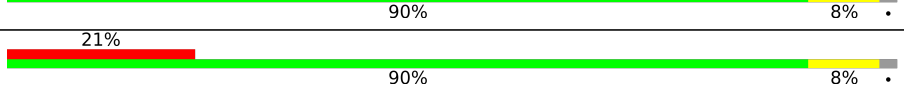
Mol	Chain	Length	Quality of chain
2	2B	121	
3	1D	276	
3	2D	276	
4	1E	206	
4	2E	206	
5	1F	210	
5	2F	210	
6	1G	182	
6	2G	182	
7	1H	180	
7	2H	180	
8	1I	148	
8	2I	148	
9	1N	140	
9	2N	140	
10	1O	122	
10	2O	122	
11	1P	150	
11	2P	150	
12	1Q	141	
12	2Q	141	
13	1R	118	
13	2R	118	
14	1S	112	
14	2S	112	

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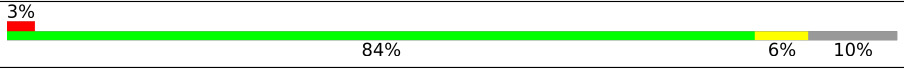
Mol	Chain	Length	Quality of chain
15	1T	146	
15	2T	146	
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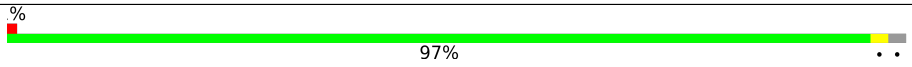
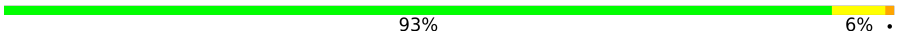
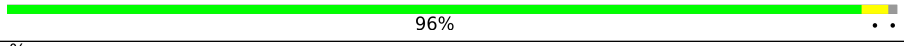
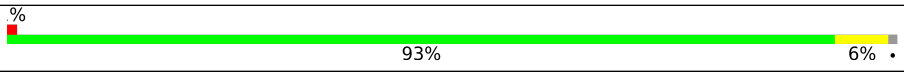
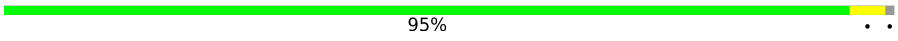
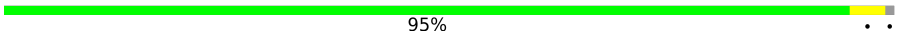
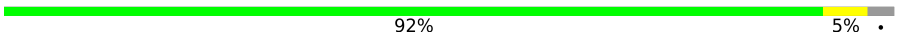
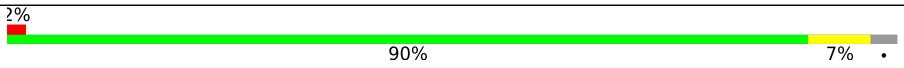
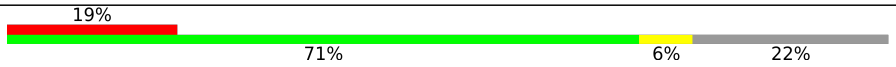
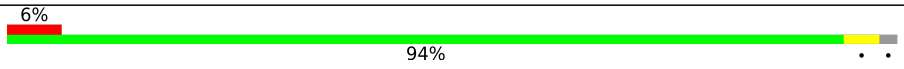
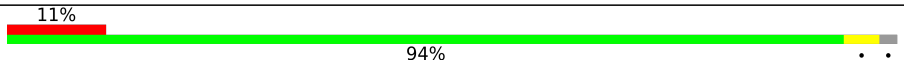
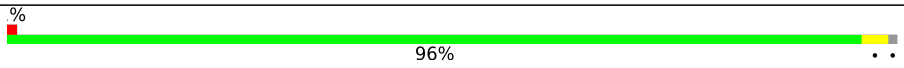
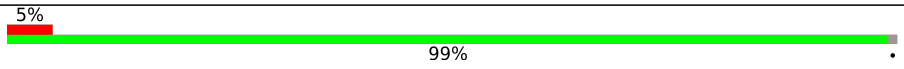
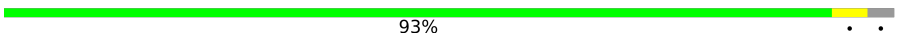
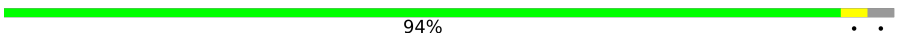
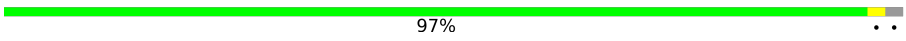
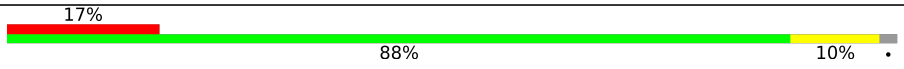
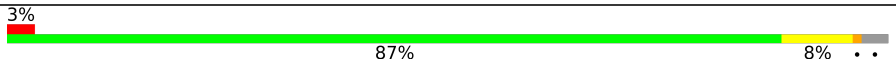
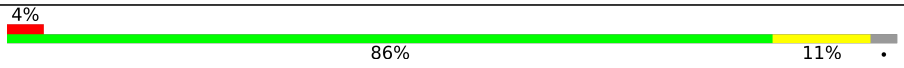
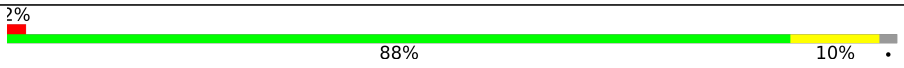
16	2U	118	
17	1V	101	
17	2V	101	
18	1W	113	
18	2W	113	
19	1X	96	
19	2X	96	
20	1Y	110	
20	2Y	110	
21	1Z	206	
21	2Z	206	
22	10	85	
22	20	85	
23	11	98	
23	21	98	
24	12	72	
24	22	72	
25	13	60	
25	23	60	
26	14	71	
26	24	71	
27	15	60	

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Mol	Chain	Length	Quality of chain
27	25	60	2% 93% 5%
28	16	54	2% 91% 7%
28	26	54	11% 89% 9%
29	17	49	2% 90% 8%
29	27	49	92% 6%
30	18	65	2% 91% 8%
30	28	65	28% 91% 8%
31	19	37	100%
31	29	37	30% 97%
32	1a	1521	% 81% 17%
32	2a	1521	2% 80% 18%
33	1b	256	6% 83% 7% 10%
33	2b	256	22% 82% 9% 10%
34	1c	239	9% 82% 14%
34	2c	239	26% 81% 5% 14%
35	1d	209	5% 93% 6%
35	2d	209	6% 93% 6%
36	1e	162	4% 85% 6% 9%
36	2e	162	15% 87% 9%
37	1f	101	96%
37	2f	101	% 96%
38	1g	156	10% 94% 5%
38	2g	156	12% 92% 8%
39	1h	138	3% 94%
39	2h	138	10% 93% 5%

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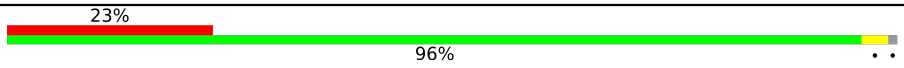
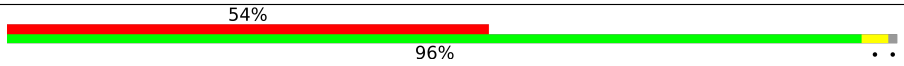
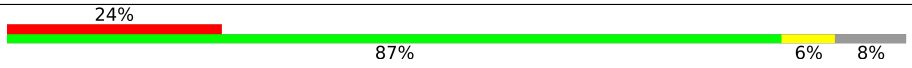
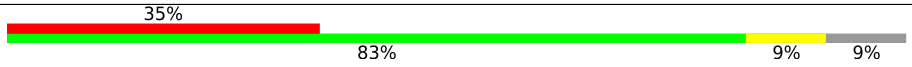
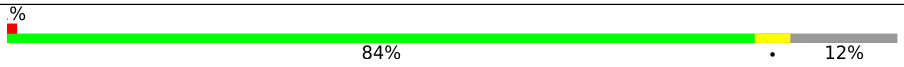
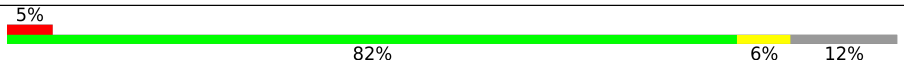
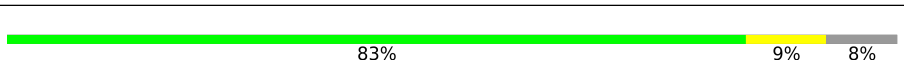
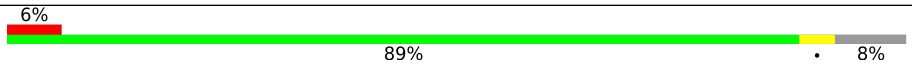
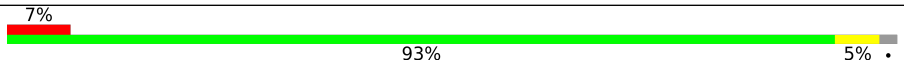
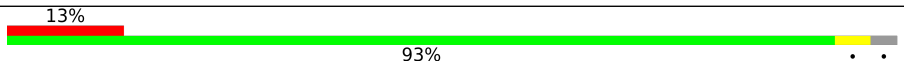
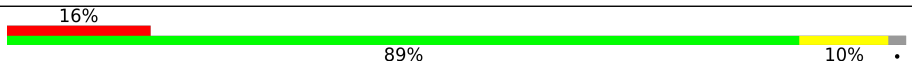
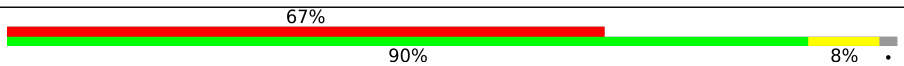
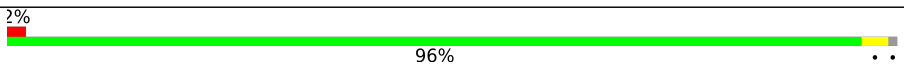
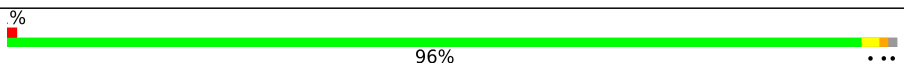
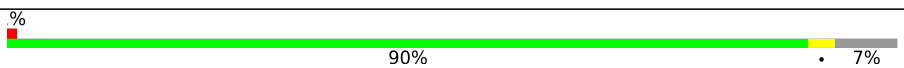
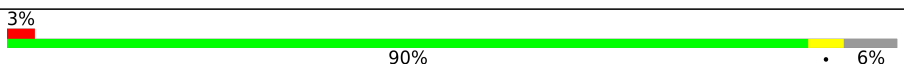
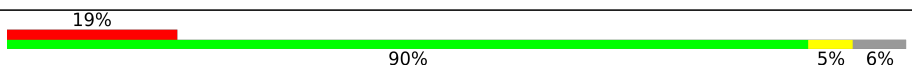
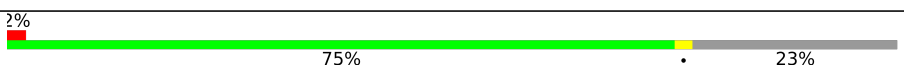
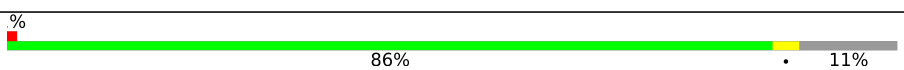
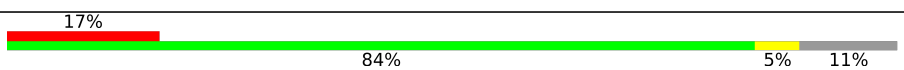
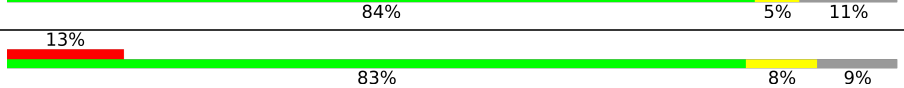
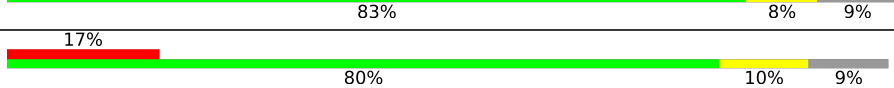
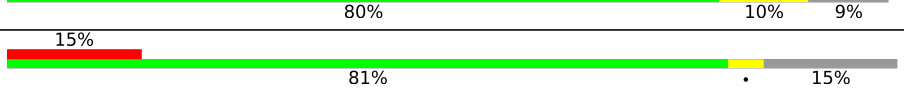
Mol	Chain	Length	Quality of chain
40	1i	128	
40	2i	128	
41	1j	105	
41	2j	105	
42	1k	129	
42	2k	129	
43	1l	132	
43	2l	132	
44	1m	126	
44	2m	126	
45	1n	61	
45	2n	61	
46	1o	89	
46	2o	89	
47	1p	88	
47	2p	88	
48	1q	105	
48	2q	105	
49	1r	88	
49	2r	88	
50	1s	93	
50	2s	93	
51	1t	106	
51	2t	106	
52	1u	27	

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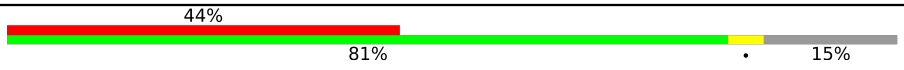
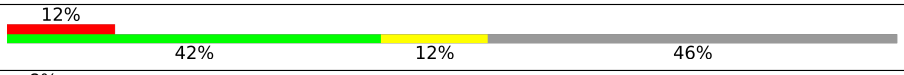
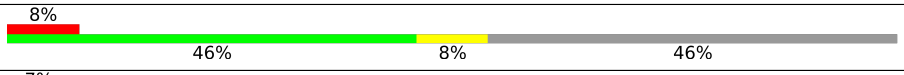
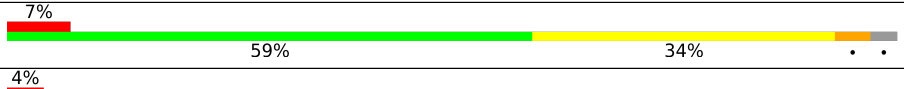
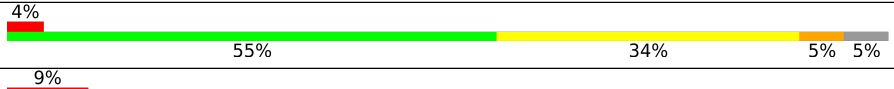
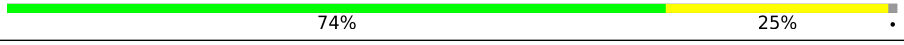
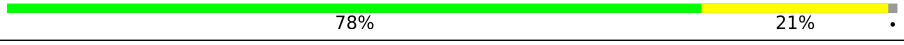
Mol	Chain	Length	Quality of chain
52	2u	27	
53	1v	24	
53	2v	24	
54	1w	76	
54	1y	76	
54	2w	76	
54	2y	76	
55	1x	77	
55	2x	77	

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	3201	-	-	-	X
56	MG	1A	3226	-	-	-	X
56	MG	1B	211	-	-	-	X
56	MG	2W	202	-	-	-	X
56	MG	2v	3002	-	-	-	X

2 Entry composition (i)

There are 61 unique types of molecules in this entry. The entry contains 299109 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
			61852	27531	11572	19878	2871			
1	2A	2800	Total	C	N	O	P	0	0	0
			60322	26848	11284	19390	2800			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1A	1273	G	UNK	conflict	GB 37223181
2A	1227	G	UNK	conflict	GB 37223181

- 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			

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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			
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			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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			
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			

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

- Molecule 53 is a RNA chain called mRNA.

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

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

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

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

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

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1x	8	4SU	G	conflict	GB 205271127
2x	8	4SU	G	conflict	GB 205271127

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1063	Total	Mg	0	0
			1063	1063		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	1B	38	Total Mg 38 38	0	0
56	1D	14	Total Mg 14 14	0	0
56	1E	13	Total Mg 13 13	0	0
56	1F	9	Total Mg 9 9	0	0
56	1G	5	Total Mg 5 5	0	0
56	1I	1	Total Mg 1 1	0	0
56	1N	5	Total Mg 5 5	0	0
56	1O	7	Total Mg 7 7	0	0
56	1P	3	Total Mg 3 3	0	0
56	1Q	5	Total Mg 5 5	0	0
56	1R	5	Total Mg 5 5	0	0
56	1S	3	Total Mg 3 3	0	0
56	1T	2	Total Mg 2 2	0	0
56	1U	6	Total Mg 6 6	0	0
56	1V	3	Total Mg 3 3	0	0
56	1W	5	Total Mg 5 5	0	0
56	1X	6	Total Mg 6 6	0	0
56	1Y	2	Total Mg 2 2	0	0
56	1Z	4	Total Mg 4 4	0	0
56	10	5	Total Mg 5 5	0	0
56	11	5	Total Mg 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	12	2	Total Mg 2 2	0	0
56	13	2	Total Mg 2 2	0	0
56	15	6	Total Mg 6 6	0	0
56	16	3	Total Mg 3 3	0	0
56	17	5	Total Mg 5 5	0	0
56	18	3	Total Mg 3 3	0	0
56	19	1	Total Mg 1 1	0	0
56	1a	215	Total Mg 215 215	0	0
56	1b	2	Total Mg 2 2	0	0
56	1e	1	Total Mg 1 1	0	0
56	1f	1	Total Mg 1 1	0	0
56	1l	3	Total Mg 3 3	0	0
56	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	1q	1	Total Mg 1 1	0	0
56	1r	1	Total Mg 1 1	0	0
56	1s	1	Total Mg 1 1	0	0
56	1t	1	Total Mg 1 1	0	0
56	1v	1	Total Mg 1 1	0	0
56	1w	11	Total Mg 11 11	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	1x	15	Total Mg 15 15	0	0
56	1y	4	Total Mg 4 4	0	0
56	2A	754	Total Mg 754 754	0	0
56	2B	21	Total Mg 21 21	0	0
56	2D	7	Total Mg 7 7	0	0
56	2E	10	Total Mg 10 10	0	0
56	2F	4	Total Mg 4 4	0	0
56	2G	1	Total Mg 1 1	0	0
56	2O	2	Total Mg 2 2	0	0
56	2P	1	Total Mg 1 1	0	0
56	2Q	3	Total Mg 3 3	0	0
56	2R	4	Total Mg 4 4	0	0
56	2T	3	Total Mg 3 3	0	0
56	2U	6	Total Mg 6 6	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	3	Total Mg 3 3	0	0
56	21	1	Total Mg 1 1	0	0
56	23	1	Total Mg 1 1	0	0

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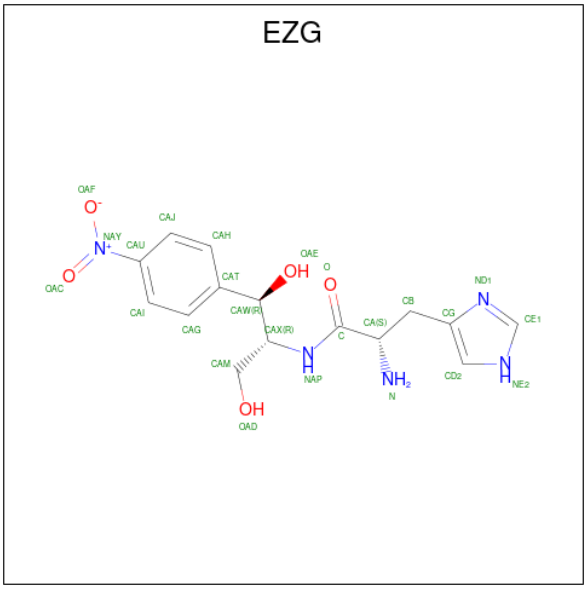
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	25	3	Total Mg 3 3	0	0
56	27	2	Total Mg 2 2	0	0
56	28	2	Total Mg 2 2	0	0
56	2a	233	Total Mg 233 233	0	0
56	2d	2	Total Mg 2 2	0	0
56	2e	1	Total Mg 1 1	0	0
56	2f	1	Total Mg 1 1	0	0
56	2g	1	Total Mg 1 1	0	0
56	2j	2	Total Mg 2 2	0	0
56	2l	4	Total Mg 4 4	0	0
56	2q	4	Total Mg 4 4	0	0
56	2r	2	Total Mg 2 2	0	0
56	2t	1	Total Mg 1 1	0	0
56	2v	5	Total Mg 5 5	0	0
56	2w	9	Total Mg 9 9	0	0
56	2x	5	Total Mg 5 5	0	0
56	2y	7	Total Mg 7 7	0	0

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

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

- Molecule 58 is N-[(1R,2R)-1,3-dihydroxy-1-(4-nitrophenyl)propan-2-yl]-L-histidinamide (three-letter code: EZG) (formula: $C_{15}H_{19}N_5O_5$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	1A	1	Total C N O 25 15 5 5	0	0
58	2A	1	Total C N O 25 15 5 5	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

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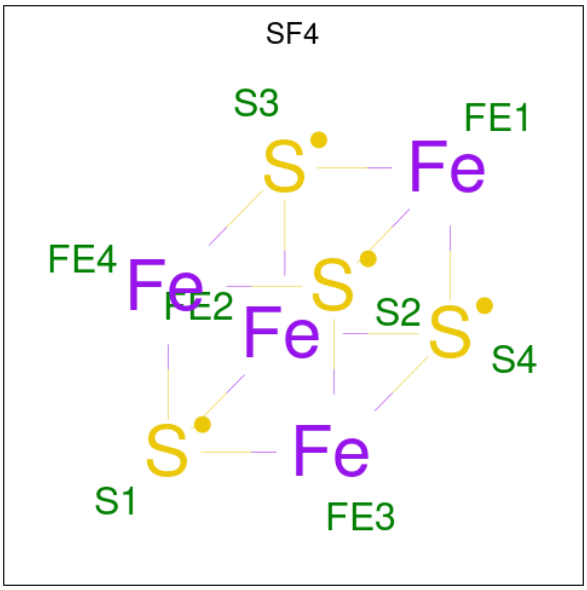
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	25	1	Total Zn 1 1	0	0
59	26	1	Total Zn 1 1	0	0
59	29	1	Total Zn 1 1	0	0
59	2n	1	Total Zn 1 1	0	0

- 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	1433	Total O 1433 1433	0	0
61	1B	65	Total O 65 65	0	0
61	1D	24	Total O 24 24	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1E	30	Total O 30 30	0	0
61	1F	10	Total O 10 10	0	0
61	1G	8	Total O 8 8	0	0
61	1H	1	Total O 1 1	0	0
61	1I	2	Total O 2 2	0	0
61	1N	6	Total O 6 6	0	0
61	1O	8	Total O 8 8	0	0
61	1P	18	Total O 18 18	0	0
61	1Q	12	Total O 12 12	0	0
61	1R	12	Total O 12 12	0	0
61	1S	4	Total O 4 4	0	0
61	1T	7	Total O 7 7	0	0
61	1U	9	Total O 9 9	0	0
61	1V	8	Total O 8 8	0	0
61	1W	8	Total O 8 8	0	0
61	1X	8	Total O 8 8	0	0
61	1Y	2	Total O 2 2	0	0
61	1Z	1	Total O 1 1	0	0
61	10	10	Total O 10 10	0	0
61	11	7	Total O 7 7	0	0
61	12	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	13	4	Total O 4 4	0	0
61	15	5	Total O 5 5	0	0
61	16	2	Total O 2 2	0	0
61	17	9	Total O 9 9	0	0
61	18	7	Total O 7 7	0	0
61	1a	315	Total O 315 315	0	0
61	1b	1	Total O 1 1	0	0
61	1e	1	Total O 1 1	0	0
61	1f	1	Total O 1 1	0	0
61	1g	1	Total O 1 1	0	0
61	1j	1	Total O 1 1	0	0
61	1l	6	Total O 6 6	0	0
61	1m	1	Total O 1 1	0	0
61	1n	1	Total O 1 1	0	0
61	1q	3	Total O 3 3	0	0
61	1u	1	Total O 1 1	0	0
61	1v	6	Total O 6 6	0	0
61	1w	20	Total O 20 20	0	0
61	1x	14	Total O 14 14	0	0
61	1y	2	Total O 2 2	0	0
61	2A	885	Total O 885 885	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2B	26	Total O 26 26	0	0
61	2D	18	Total O 18 18	0	0
61	2E	14	Total O 14 14	0	0
61	2F	18	Total O 18 18	0	0
61	2I	4	Total O 4 4	0	0
61	2N	1	Total O 1 1	0	0
61	2P	12	Total O 12 12	0	0
61	2Q	2	Total O 2 2	0	0
61	2R	2	Total O 2 2	0	0
61	2T	6	Total O 6 6	0	0
61	2U	3	Total O 3 3	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	1	Total O 1 1	0	0
61	2Z	2	Total O 2 2	0	0
61	20	4	Total O 4 4	0	0
61	21	8	Total O 8 8	0	0
61	22	1	Total O 1 1	0	0
61	23	1	Total O 1 1	0	0
61	25	4	Total O 4 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	26	1	Total O 1 1	0	0
61	27	4	Total O 4 4	0	0
61	28	4	Total O 4 4	0	0
61	29	1	Total O 1 1	0	0
61	2a	258	Total O 258 258	0	0
61	2c	1	Total O 1 1	0	0
61	2d	3	Total O 3 3	0	0
61	2e	1	Total O 1 1	0	0
61	2g	1	Total O 1 1	0	0
61	2i	1	Total O 1 1	0	0
61	2j	4	Total O 4 4	0	0
61	2l	6	Total O 6 6	0	0
61	2o	1	Total O 1 1	0	0
61	2p	2	Total O 2 2	0	0
61	2q	1	Total O 1 1	0	0
61	2r	1	Total O 1 1	0	0
61	2t	5	Total O 5 5	0	0
61	2u	1	Total O 1 1	0	0
61	2v	2	Total O 2 2	0	0
61	2w	2	Total O 2 2	0	0
61	2x	6	Total O 6 6	0	0

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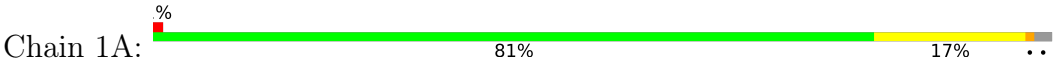
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2y	18	Total O 18 18	0	0

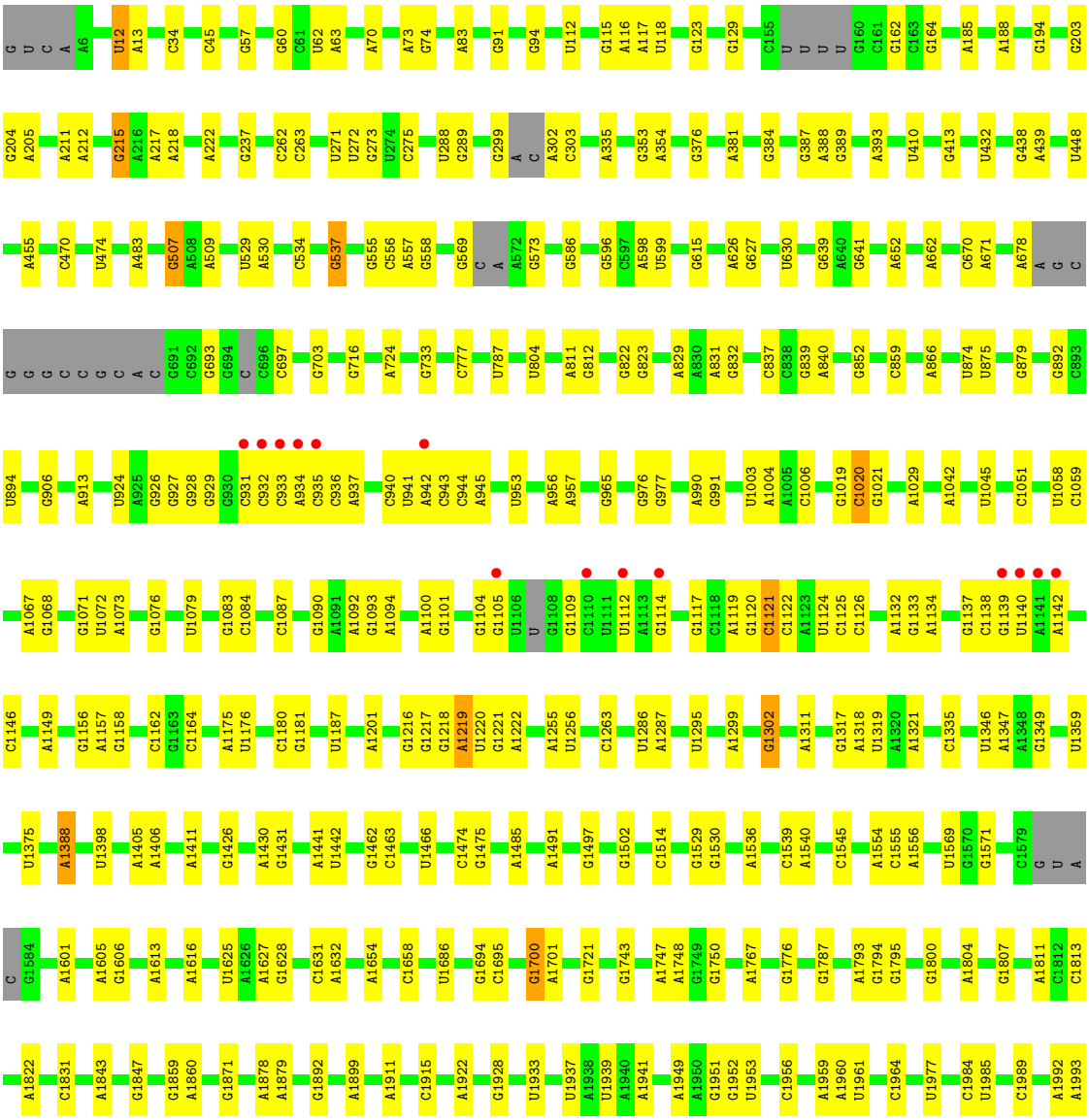
3 Residue-property plots (i)

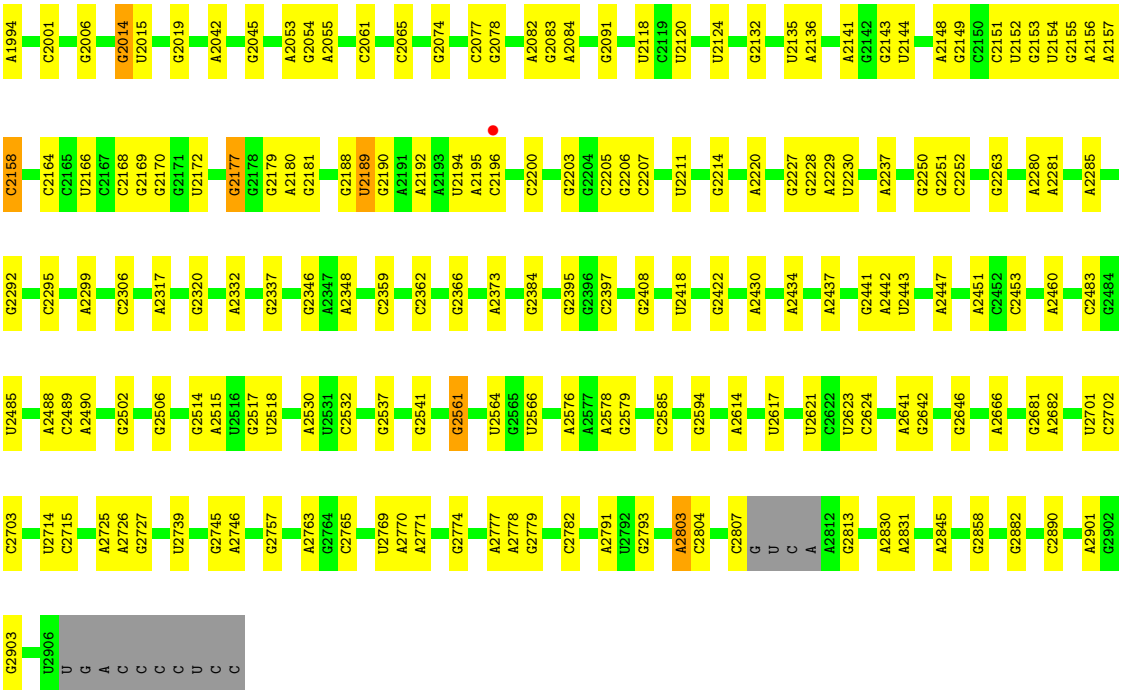
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

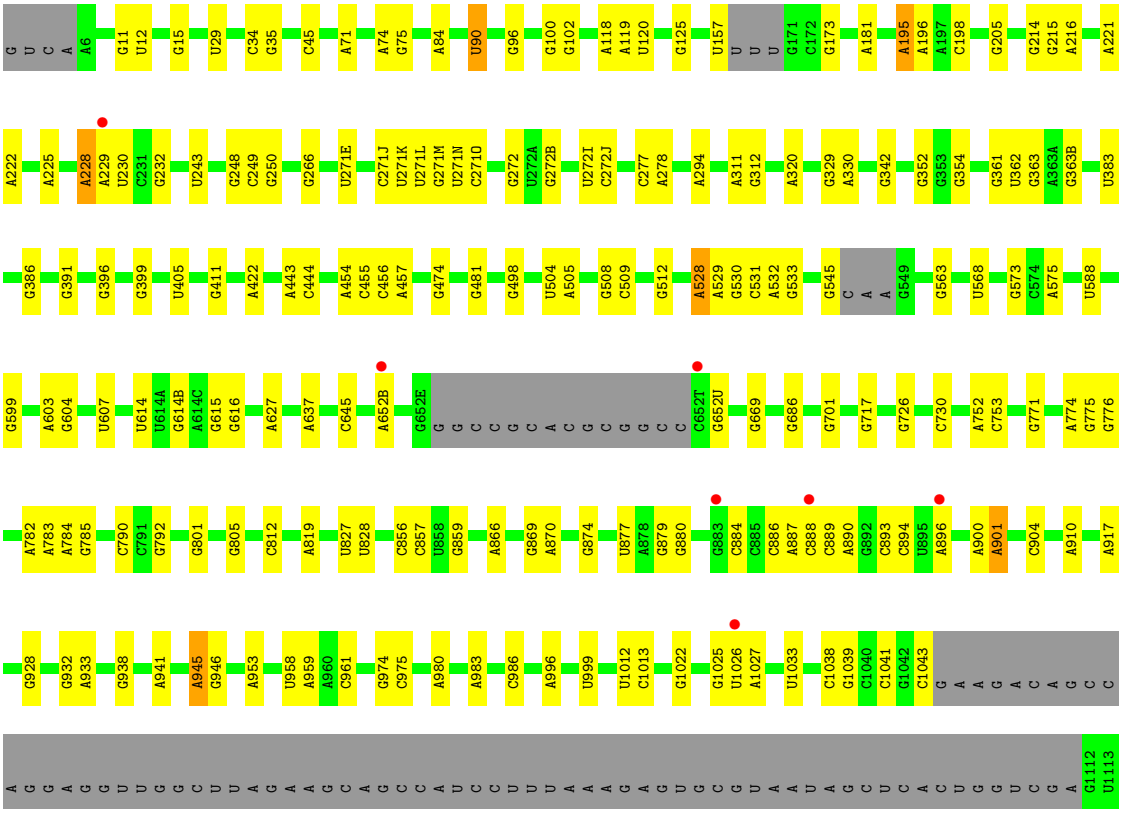


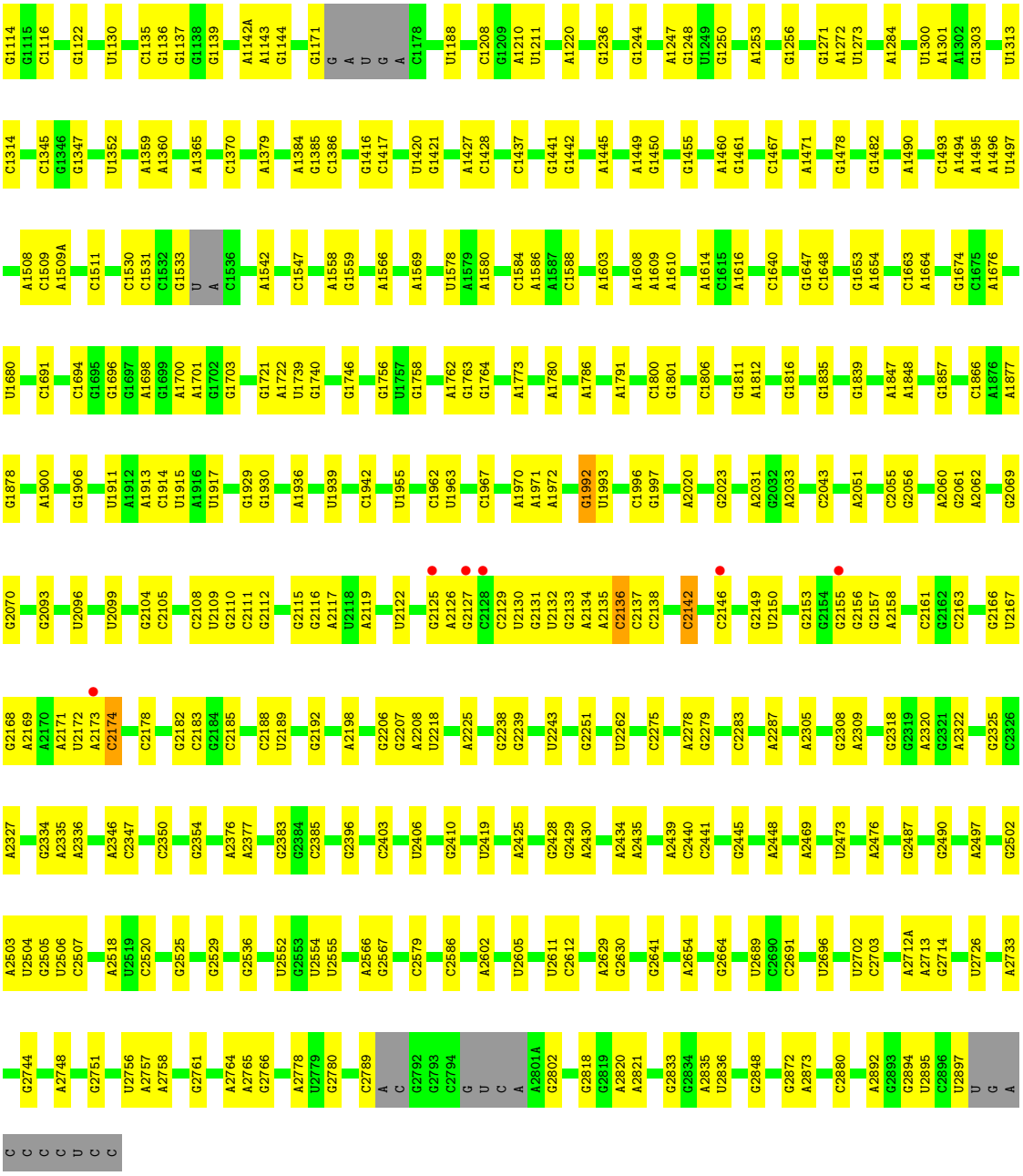




• Molecule 1: 23S Ribosomal RNA

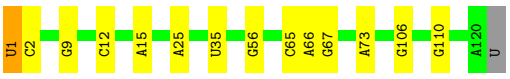
Chain 2A:





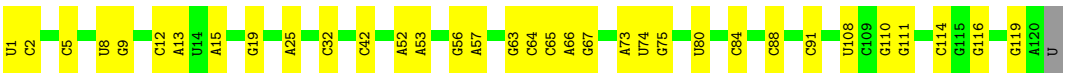
• Molecule 2: 5S Ribosomal RNA

Chain 1B:



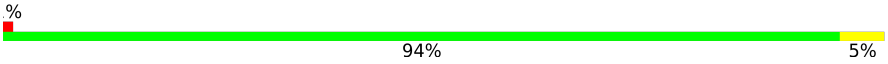
• Molecule 2: 5S Ribosomal RNA

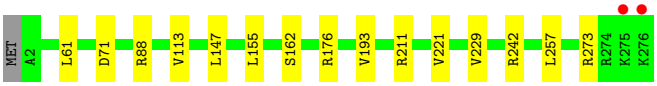
Chain 2B:



• Molecule 3: 50S ribosomal protein L2

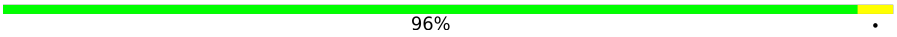
Chain 1D:





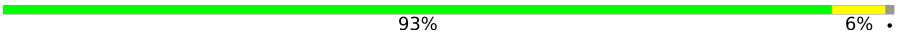
• Molecule 3: 50S ribosomal protein L2

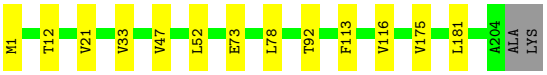
Chain 2D:



• Molecule 4: 50S ribosomal protein L3

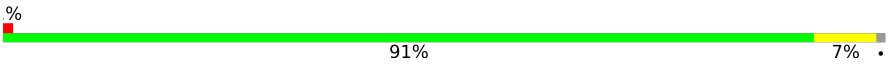
Chain 1E:

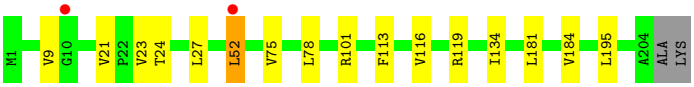




• Molecule 4: 50S ribosomal protein L3

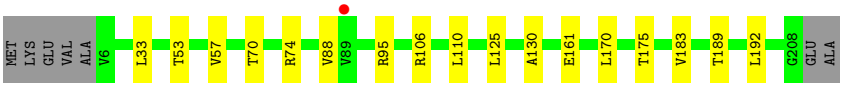
Chain 2E:





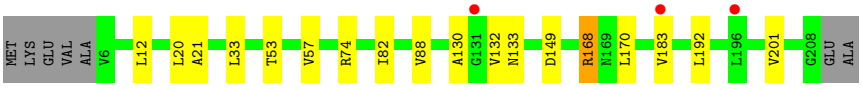
• Molecule 5: 50S ribosomal protein L4

Chain 1F:



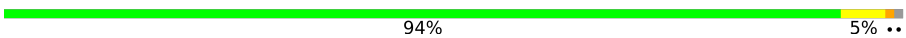
• Molecule 5: 50S ribosomal protein L4

Chain 2F:



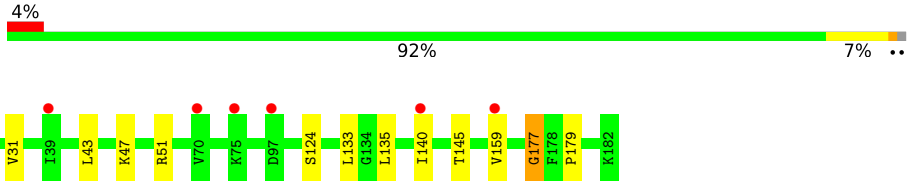
• Molecule 6: 50S ribosomal protein L5

Chain 1G:



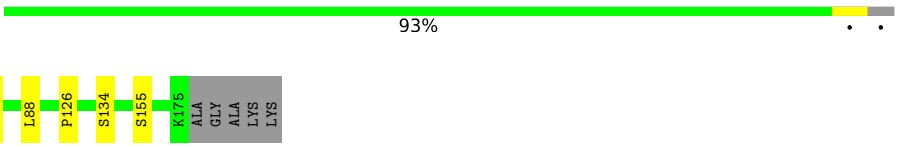
• Molecule 6: 50S ribosomal protein L5

Chain 2G:



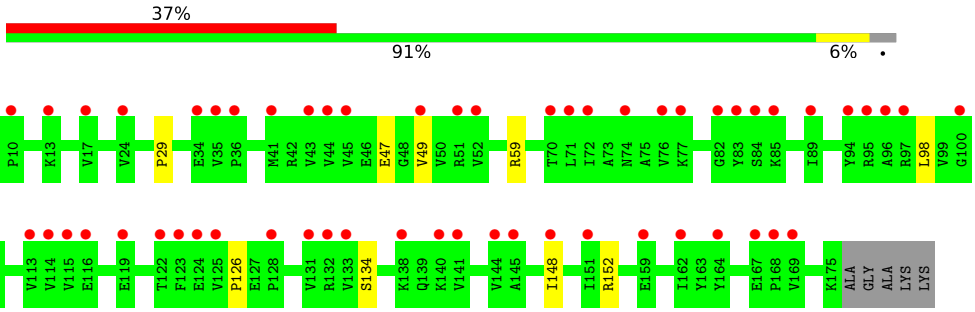
• Molecule 7: 50S ribosomal protein L6

Chain 1H:



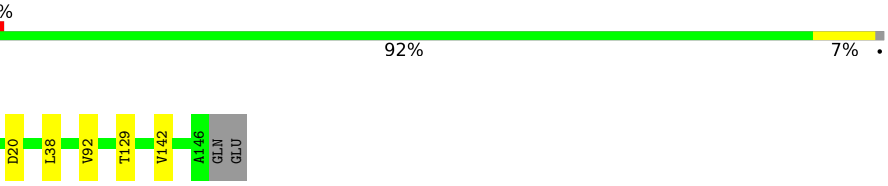
• Molecule 7: 50S ribosomal protein L6

Chain 2H:



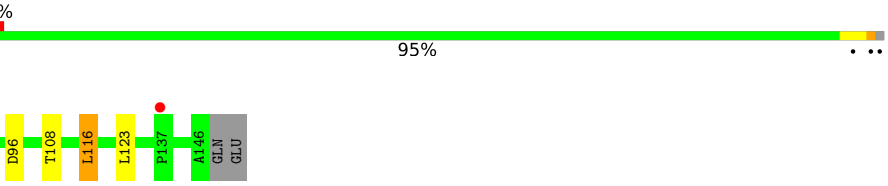
• Molecule 8: 50S ribosomal protein L9

Chain 1I:



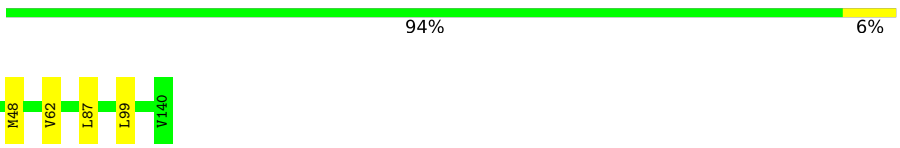
• Molecule 8: 50S ribosomal protein L9

Chain 2I:



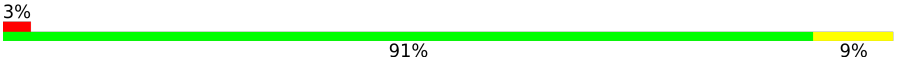
• Molecule 9: 50S ribosomal protein L13

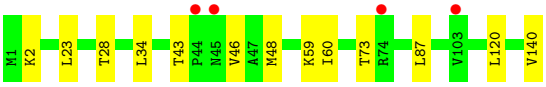
Chain 1N:



• Molecule 9: 50S ribosomal protein L13

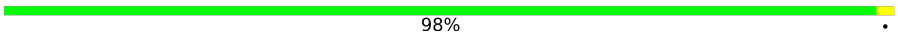
Chain 2N:

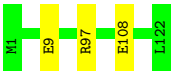




• Molecule 10: 50S ribosomal protein L14

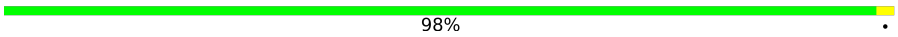
Chain 1O:





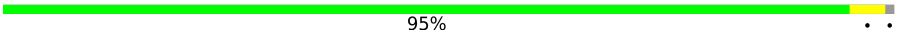
• Molecule 10: 50S ribosomal protein L14

Chain 2O:



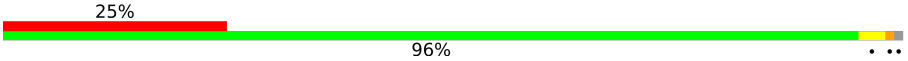
• Molecule 11: 50S ribosomal protein L15

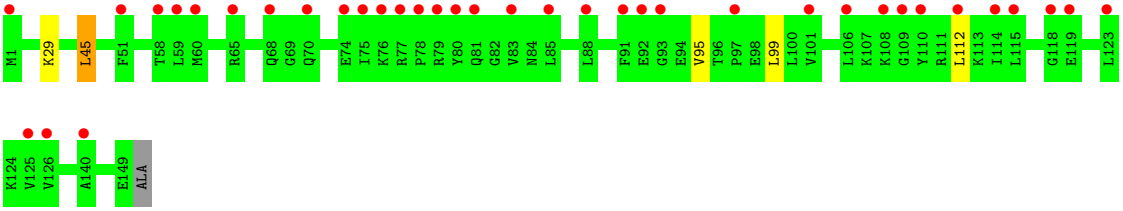
Chain 1P:



• Molecule 11: 50S ribosomal protein L15

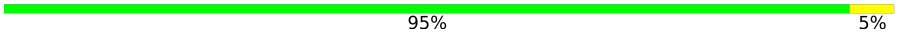
Chain 2P:





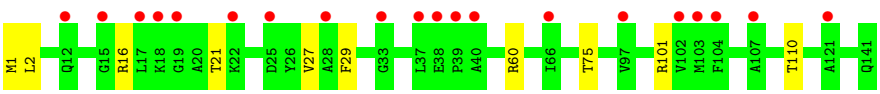
• Molecule 12: 50S ribosomal protein L16

Chain 1Q:



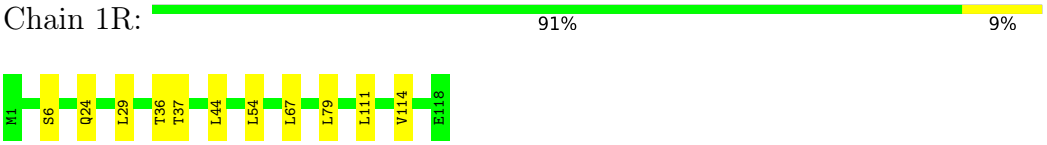
• Molecule 12: 50S ribosomal protein L16

Chain 2Q:



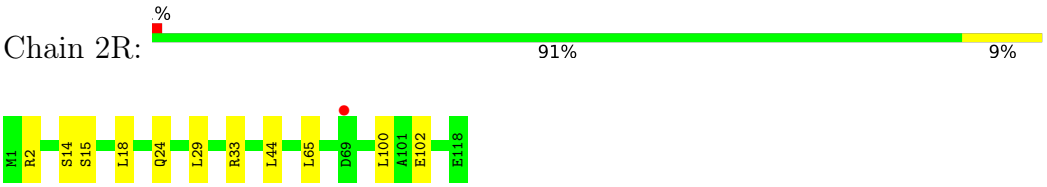
• Molecule 13: 50S ribosomal protein L17

Chain 1R:



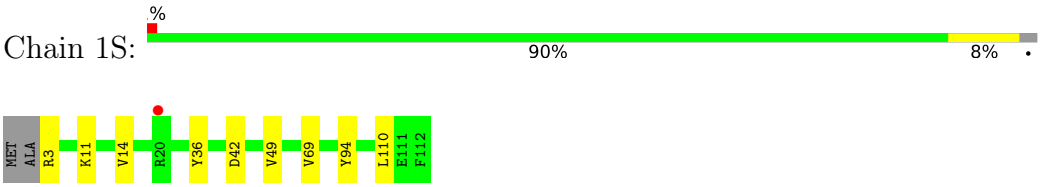
• Molecule 13: 50S ribosomal protein L17

Chain 2R:



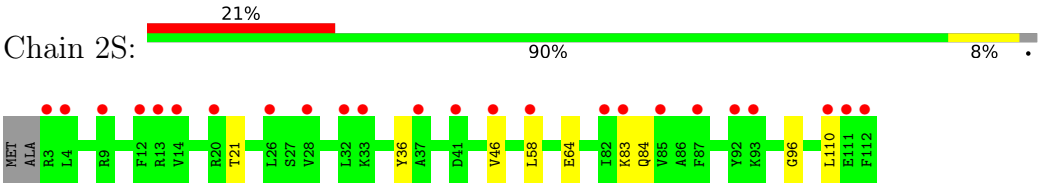
• Molecule 14: 50S ribosomal protein L18

Chain 1S:



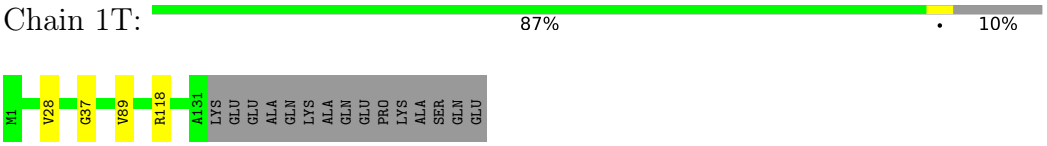
• Molecule 14: 50S ribosomal protein L18

Chain 2S:



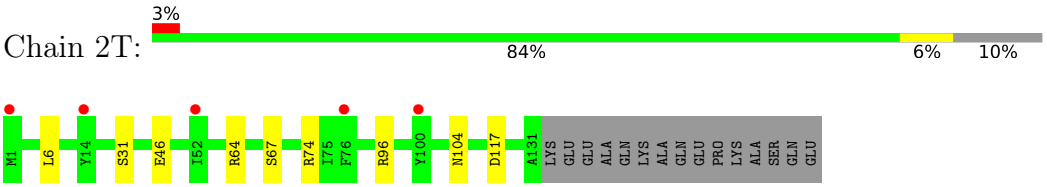
• Molecule 15: 50S ribosomal protein L19

Chain 1T:



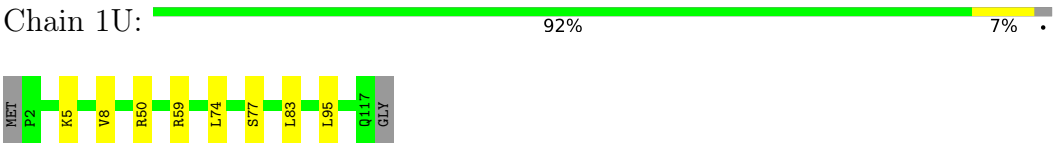
• Molecule 15: 50S ribosomal protein L19

Chain 2T:



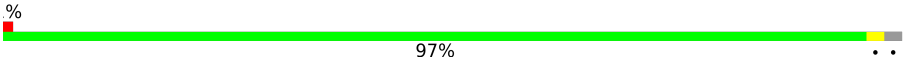
• Molecule 16: 50S ribosomal protein L20

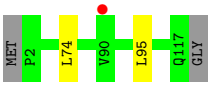
Chain 1U:



• Molecule 16: 50S ribosomal protein L20

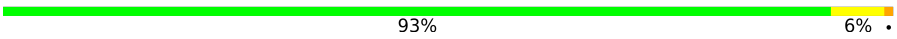
Chain 2U:

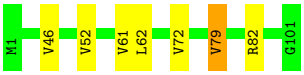




• Molecule 17: 50S ribosomal protein L21

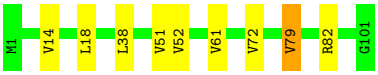
Chain 1V:





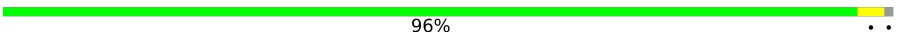
• Molecule 17: 50S ribosomal protein L21

Chain 2V:



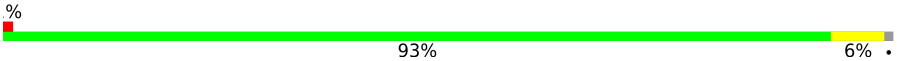
• Molecule 18: 50S ribosomal protein L22

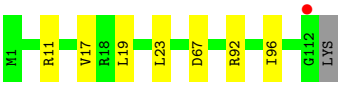
Chain 1W:



• Molecule 18: 50S ribosomal protein L22

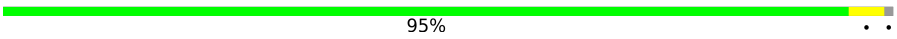
Chain 2W:

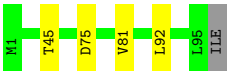




• Molecule 19: 50S ribosomal protein L23

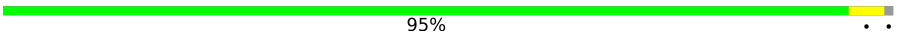
Chain 1X:





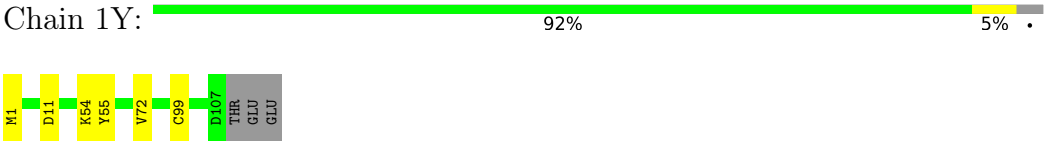
• Molecule 19: 50S ribosomal protein L23

Chain 2X:



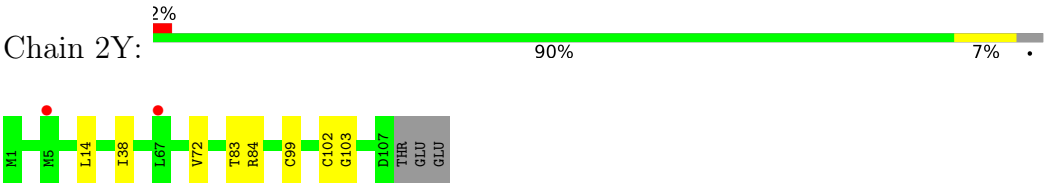
• Molecule 20: 50S ribosomal protein L24

Chain 1Y:



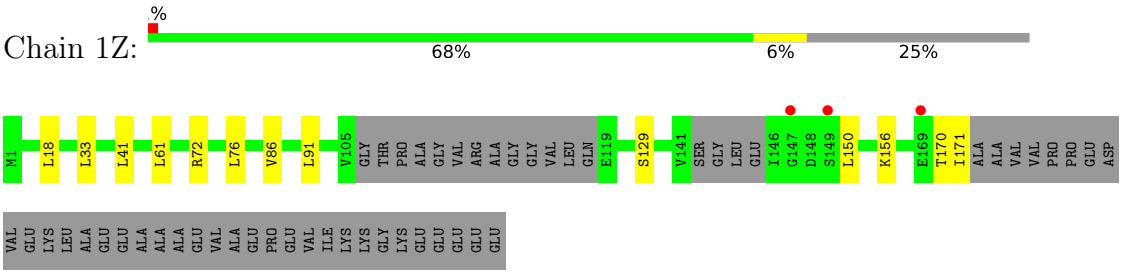
• Molecule 20: 50S ribosomal protein L24

Chain 2Y:



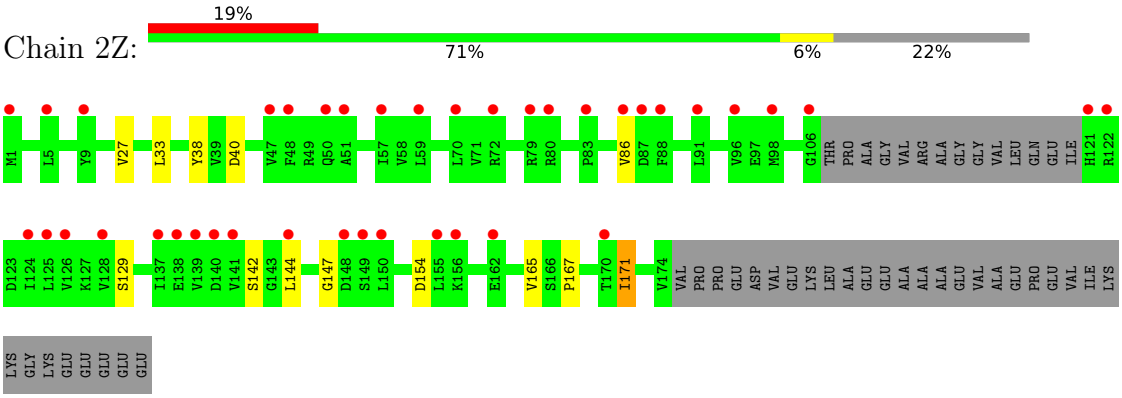
• Molecule 21: 50S ribosomal protein L25

Chain 1Z:



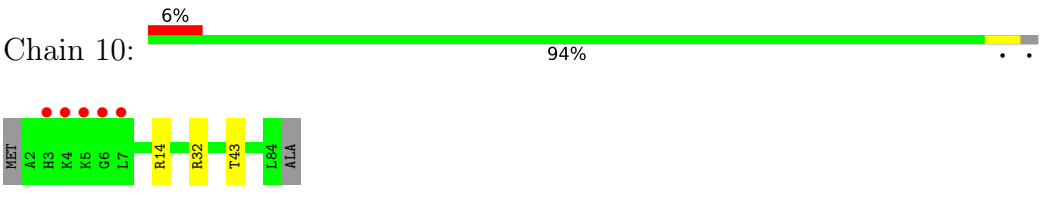
• Molecule 21: 50S ribosomal protein L25

Chain 2Z:



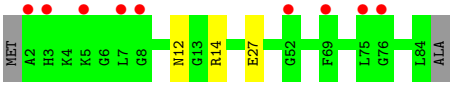
• Molecule 22: 50S ribosomal protein L27

Chain 10:



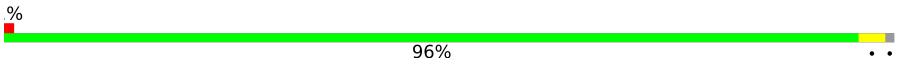
• Molecule 22: 50S ribosomal protein L27

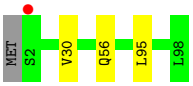
Chain 20:



• Molecule 23: 50S ribosomal protein L28

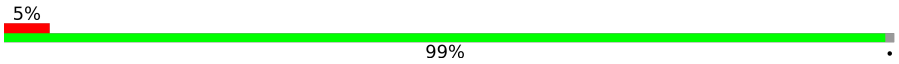
Chain 11:

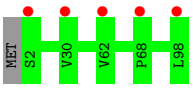




• Molecule 23: 50S ribosomal protein L28

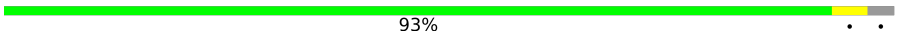
Chain 21:

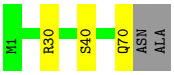




• Molecule 24: 50S ribosomal protein L29

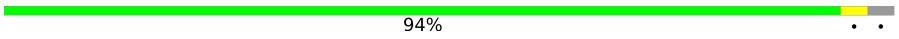
Chain 12:

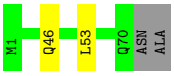




• Molecule 24: 50S ribosomal protein L29

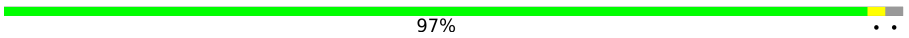
Chain 22:





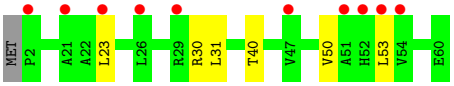
• Molecule 25: 50S ribosomal protein L30

Chain 13:



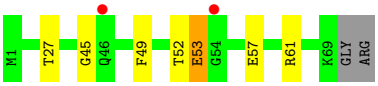
• Molecule 25: 50S ribosomal protein L30

Chain 23:



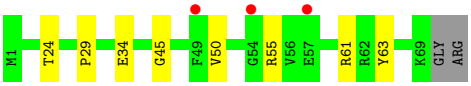
• Molecule 26: 50S ribosomal protein L31

Chain 14:



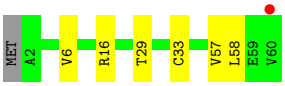
• Molecule 26: 50S ribosomal protein L31

Chain 24:



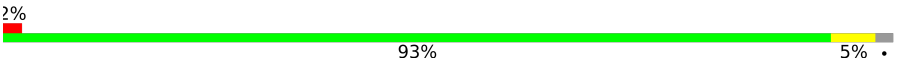
• Molecule 27: 50S ribosomal protein L32

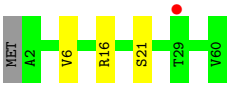
Chain 15:



• Molecule 27: 50S ribosomal protein L32

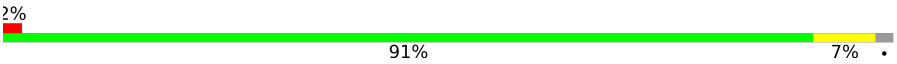
Chain 25:





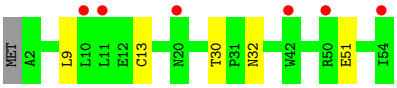
• Molecule 28: 50S ribosomal protein L33

Chain 16:



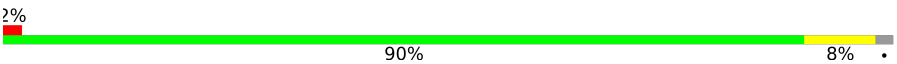
• Molecule 28: 50S ribosomal protein L33

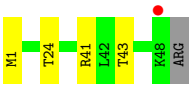
Chain 26:



• Molecule 29: 50S ribosomal protein L34

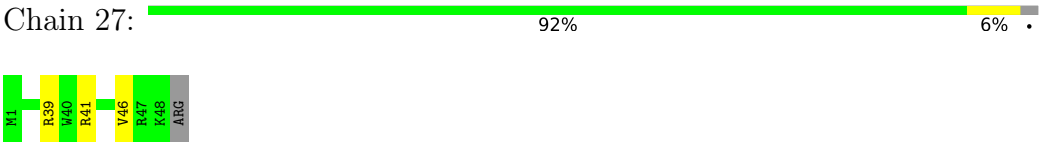
Chain 17:





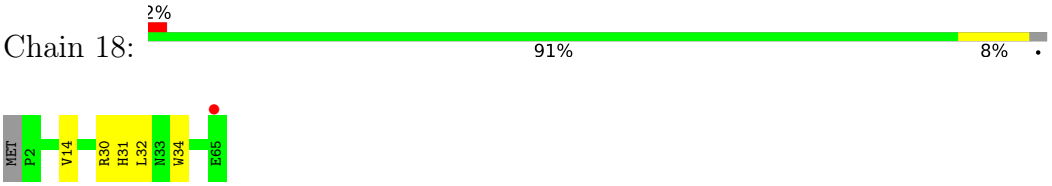
• Molecule 29: 50S ribosomal protein L34

Chain 27:



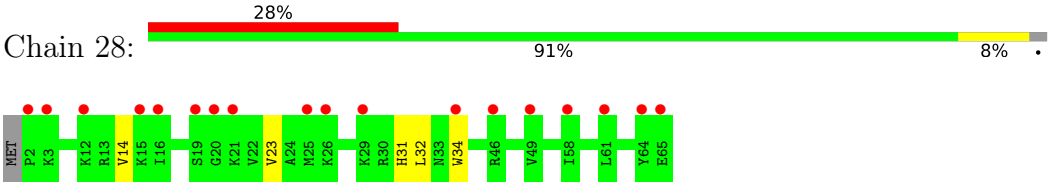
• Molecule 30: 50S ribosomal protein L35

Chain 18:



• Molecule 30: 50S ribosomal protein L35

Chain 28:



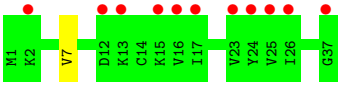
• Molecule 31: 50S ribosomal protein L36

Chain 19:

There are no outlier residues recorded for this chain.

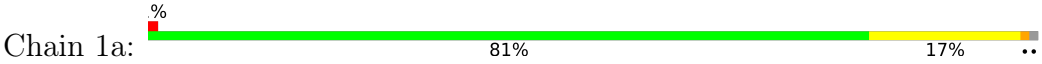
• Molecule 31: 50S ribosomal protein L36

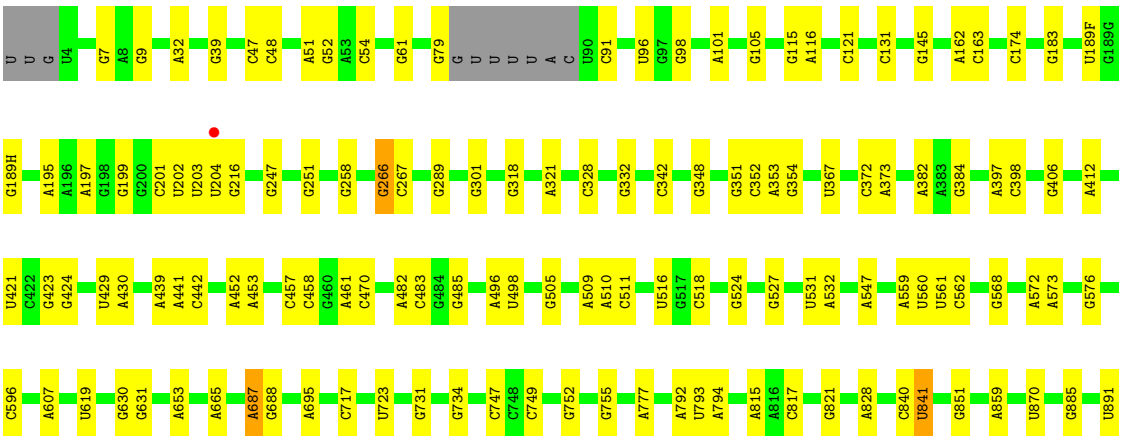
Chain 29:

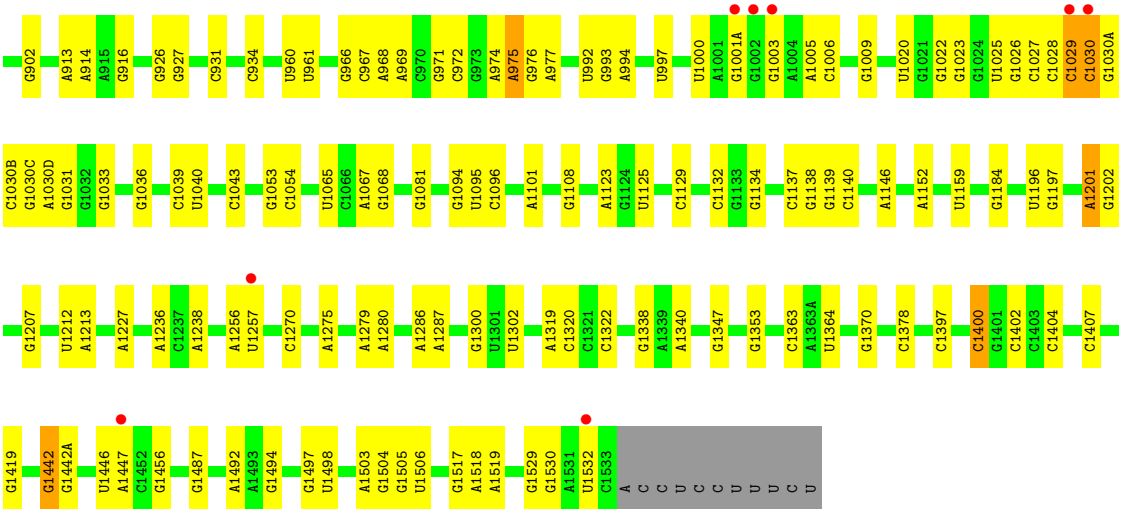


• Molecule 32: 16S Ribosomal RNA

Chain 1a:

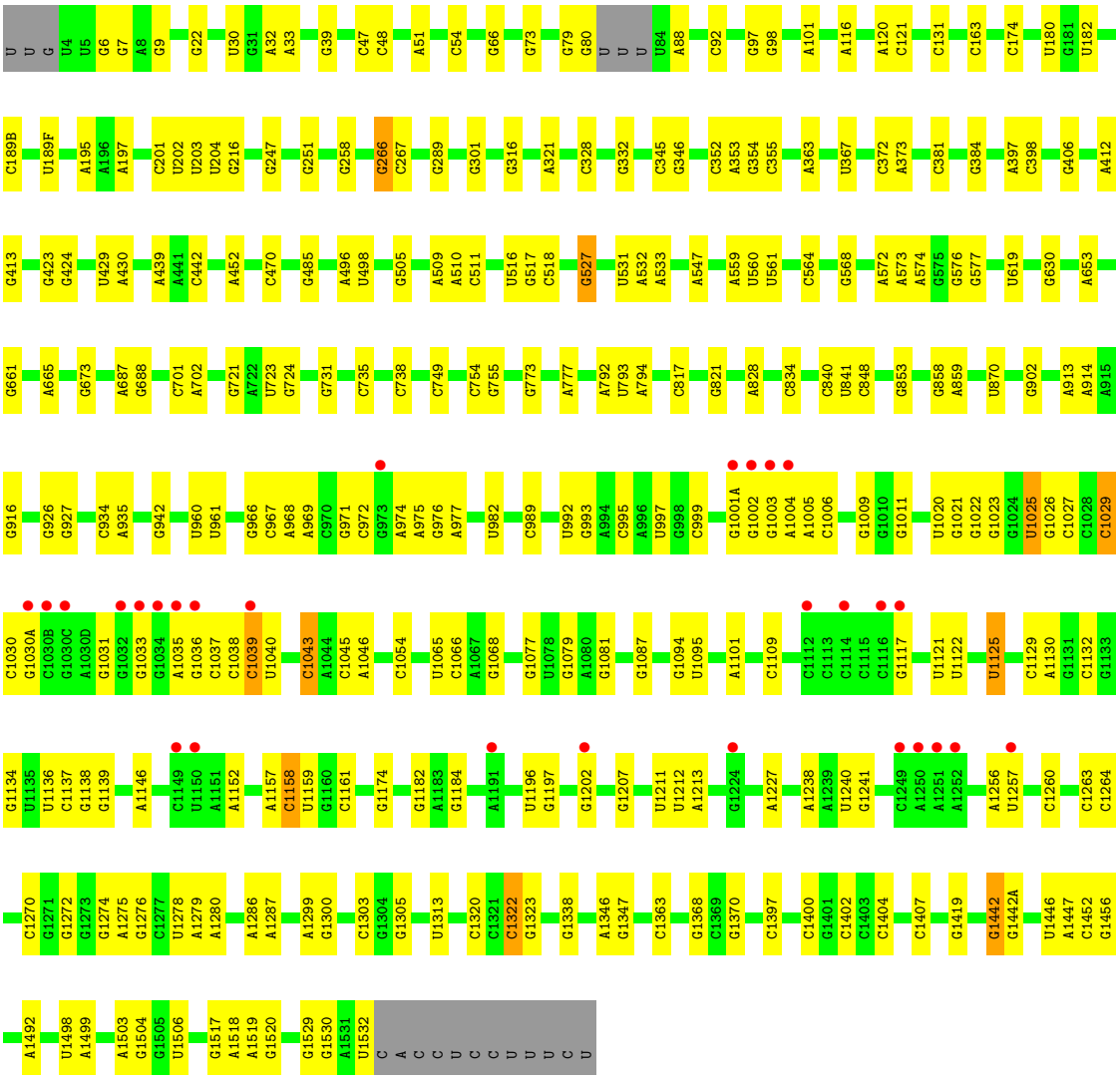






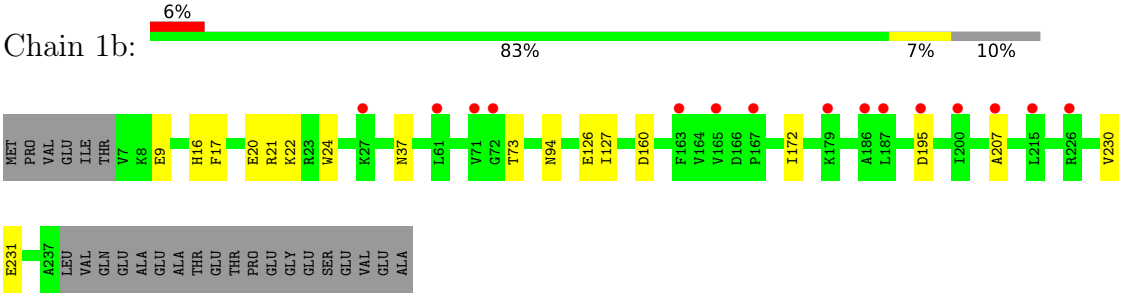
• Molecule 32: 16S Ribosomal RNA

Chain 2a:



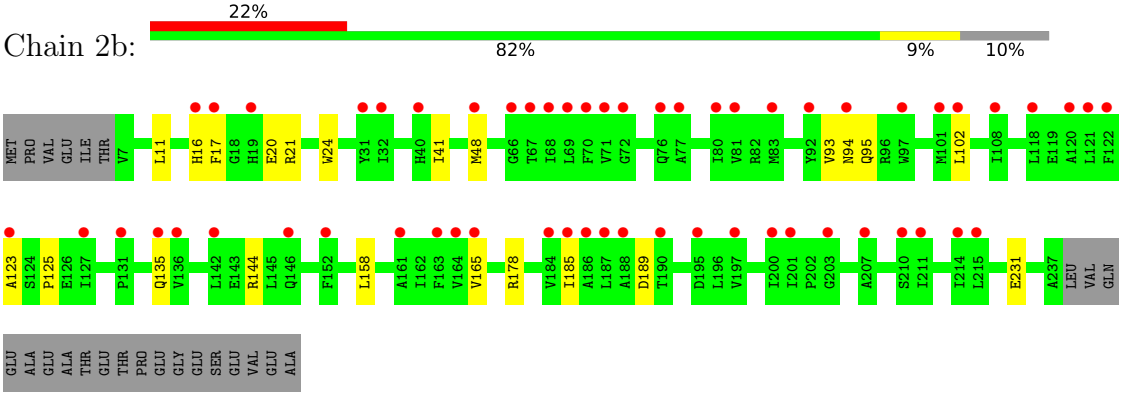
• Molecule 33: 30S ribosomal protein S2

Chain 1b:



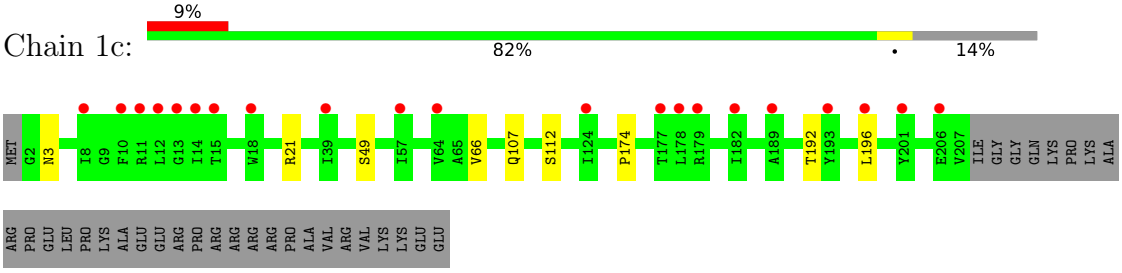
• Molecule 33: 30S ribosomal protein S2

Chain 2b:



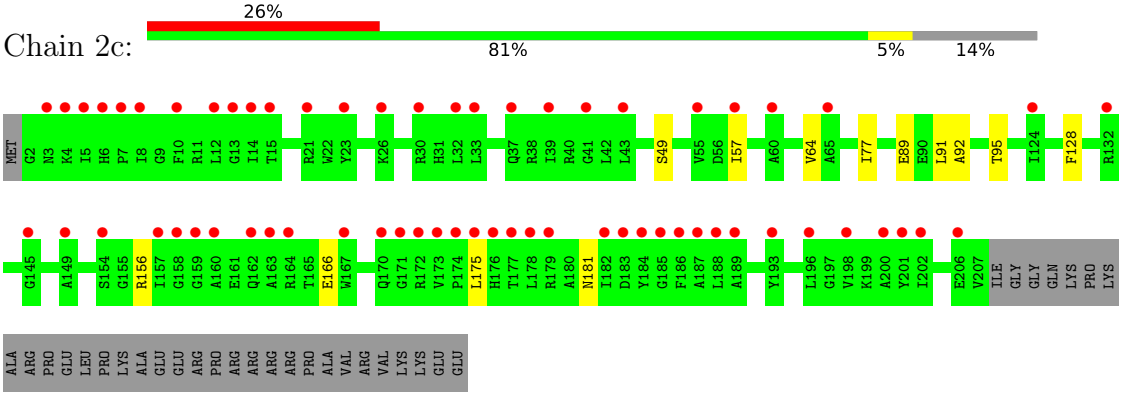
• Molecule 34: 30S ribosomal protein S3

Chain 1c:



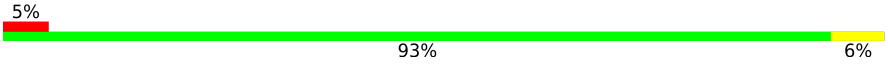
• Molecule 34: 30S ribosomal protein S3

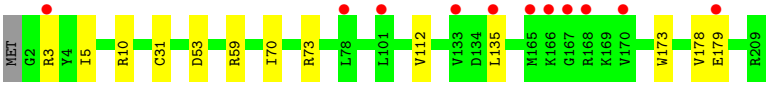
Chain 2c:



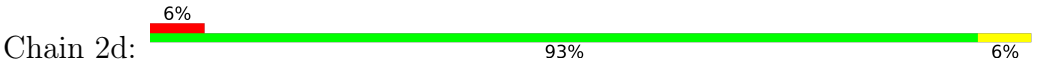
• Molecule 35: 30S ribosomal protein S4

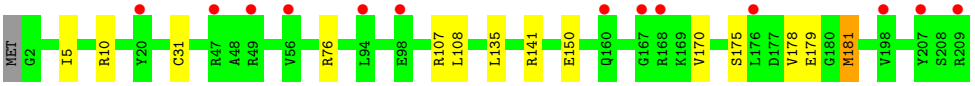
Chain 1d:



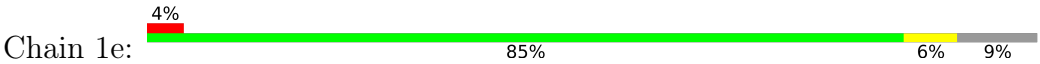


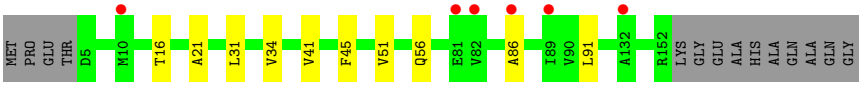
• Molecule 35: 30S ribosomal protein S4



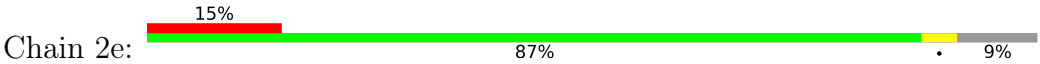


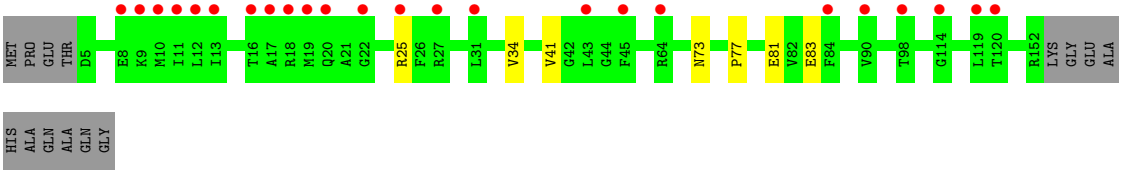
• Molecule 36: 30S ribosomal protein S5



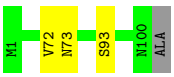


• Molecule 36: 30S ribosomal protein S5

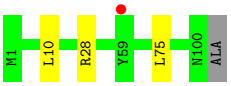




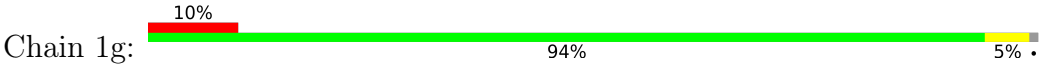
• Molecule 37: 30S ribosomal protein S6

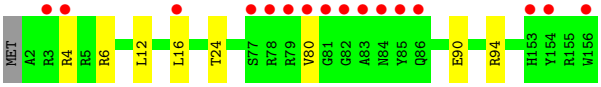


• Molecule 37: 30S ribosomal protein S6



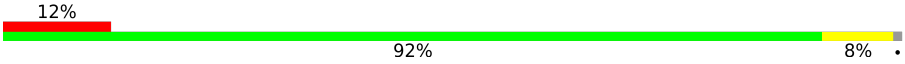
• Molecule 38: 30S ribosomal protein S7

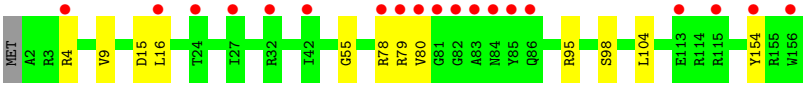




• Molecule 38: 30S ribosomal protein S7

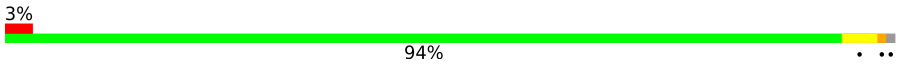
Chain 2g:

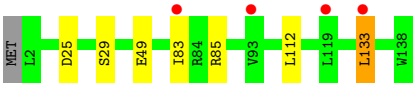




• Molecule 39: 30S ribosomal protein S8

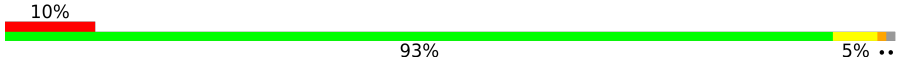
Chain 1h:

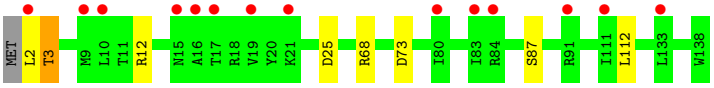




• Molecule 39: 30S ribosomal protein S8

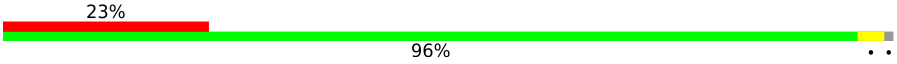
Chain 2h:

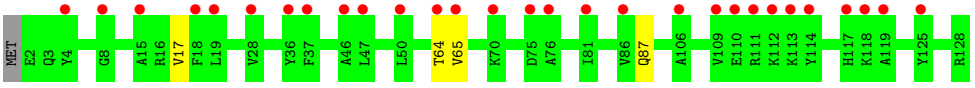




• Molecule 40: 30S ribosomal protein S9

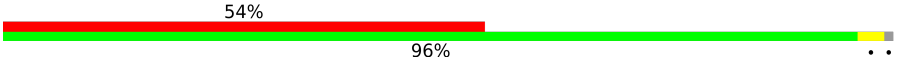
Chain 1i:

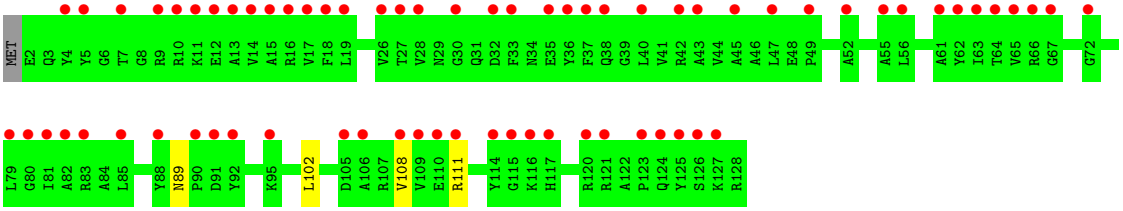




• Molecule 40: 30S ribosomal protein S9

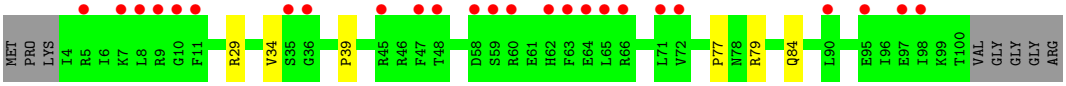
Chain 2i:





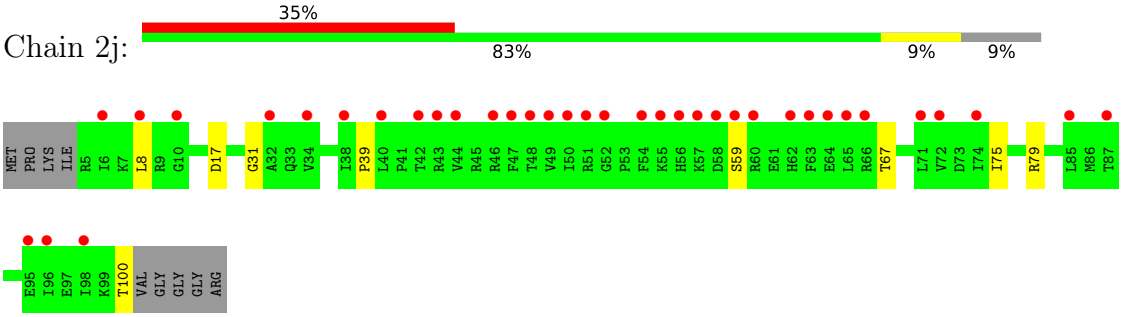
• Molecule 41: 30S ribosomal protein S10

Chain 1j:



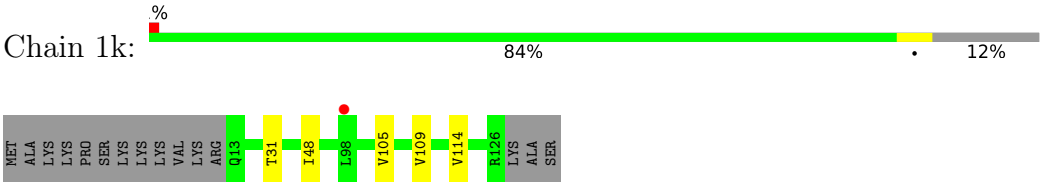
• Molecule 41: 30S ribosomal protein S10

Chain 2j:



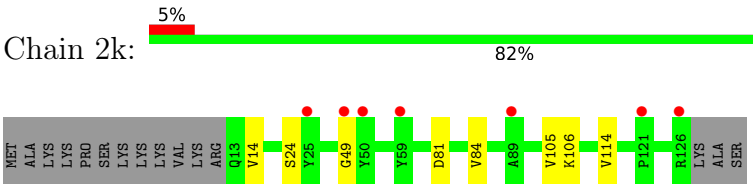
• Molecule 42: 30S ribosomal protein S11

Chain 1k:



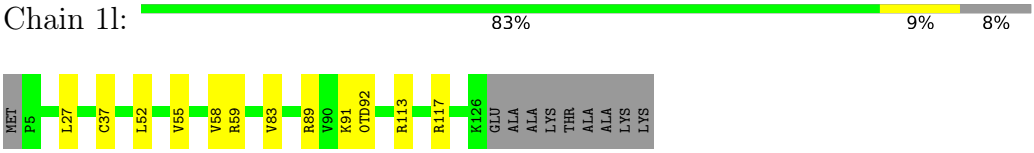
• Molecule 42: 30S ribosomal protein S11

Chain 2k:



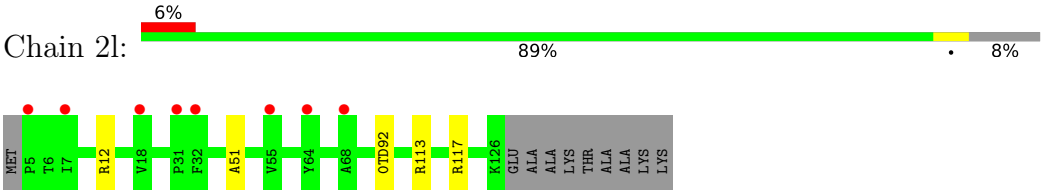
• Molecule 43: 30S ribosomal protein S12

Chain 1l:



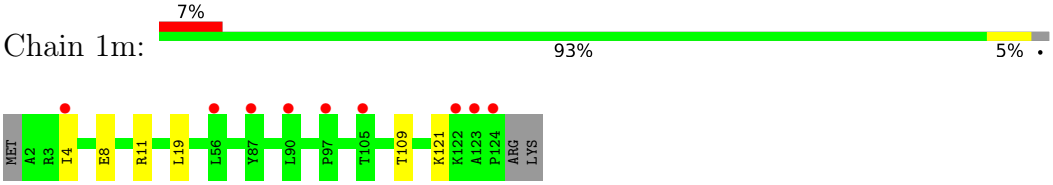
• Molecule 43: 30S ribosomal protein S12

Chain 2l:



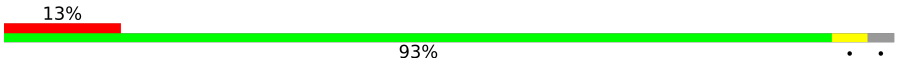
• Molecule 44: 30S ribosomal protein S13

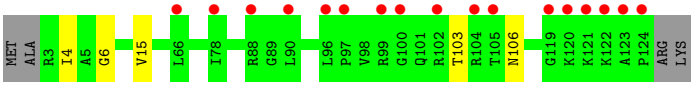
Chain 1m:



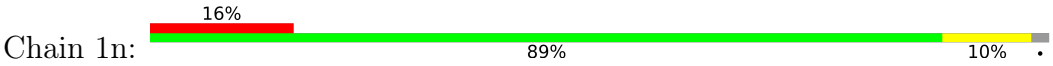
• Molecule 44: 30S ribosomal protein S13

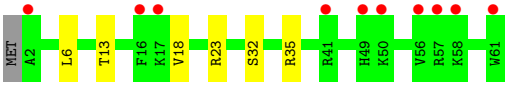
Chain 2m:



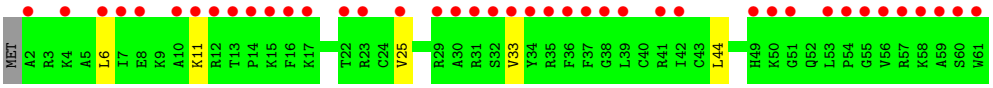


• Molecule 45: 30S ribosomal protein S14 type Z

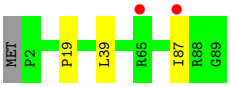




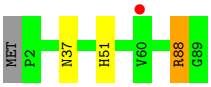
• Molecule 45: 30S ribosomal protein S14 type Z



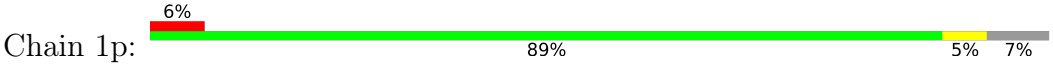
• Molecule 46: 30S ribosomal protein S15

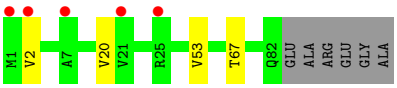


• Molecule 46: 30S ribosomal protein S15

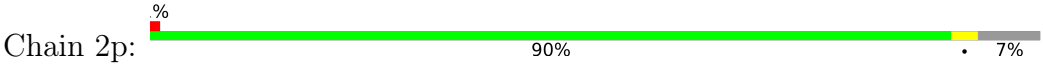


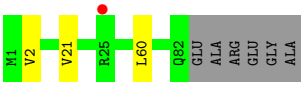
• Molecule 47: 30S ribosomal protein S16





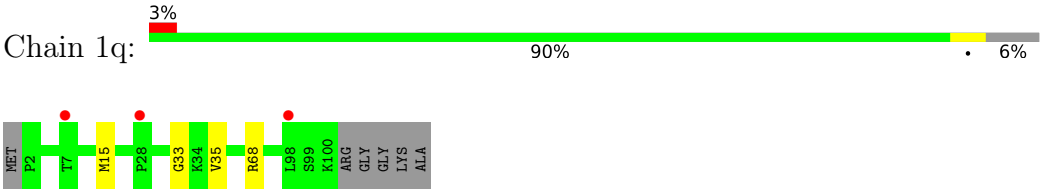
• Molecule 47: 30S ribosomal protein S16





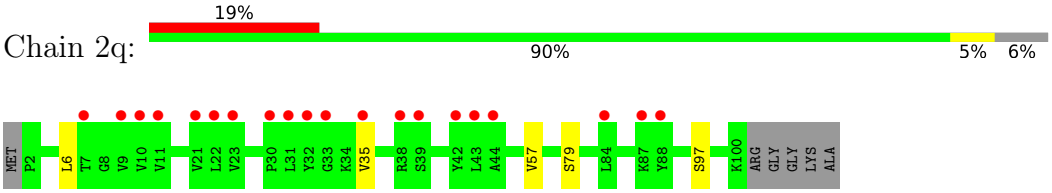
• Molecule 48: 30S ribosomal protein S17

Chain 1q:



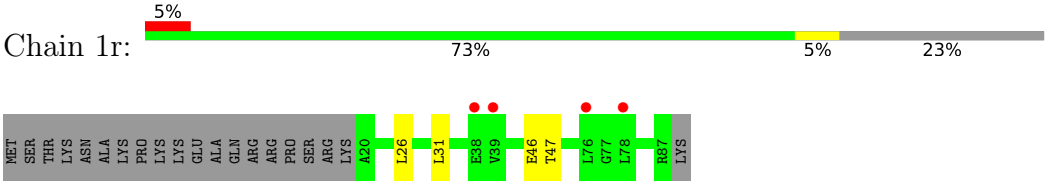
• Molecule 48: 30S ribosomal protein S17

Chain 2q:



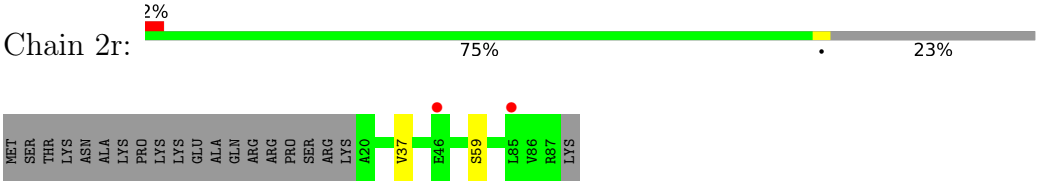
• Molecule 49: 30S ribosomal protein S18

Chain 1r:



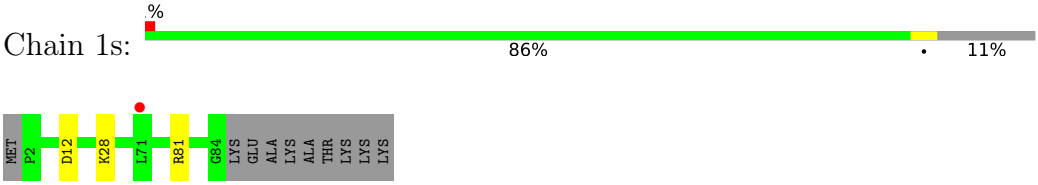
• Molecule 49: 30S ribosomal protein S18

Chain 2r:



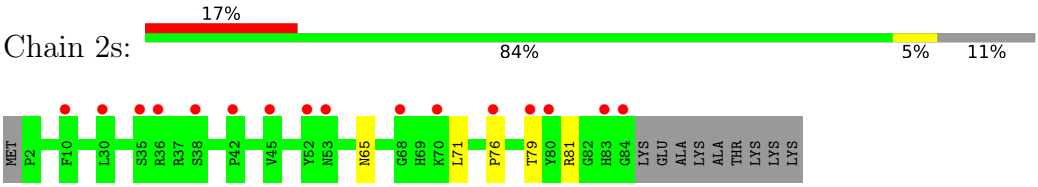
• Molecule 50: 30S ribosomal protein S19

Chain 1s:



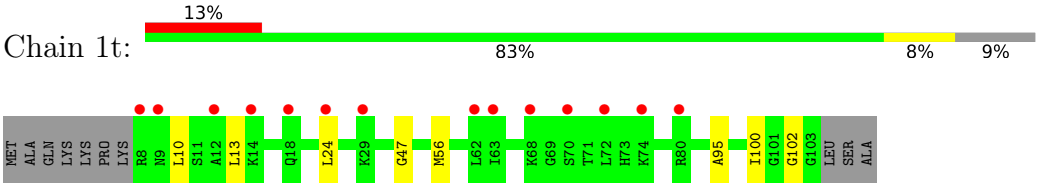
• Molecule 50: 30S ribosomal protein S19

Chain 2s:



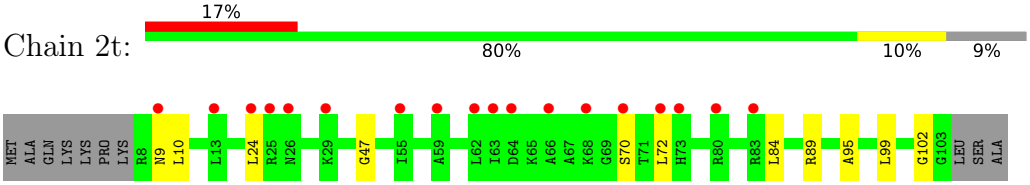
• Molecule 51: 30S ribosomal protein S20

Chain 1t:



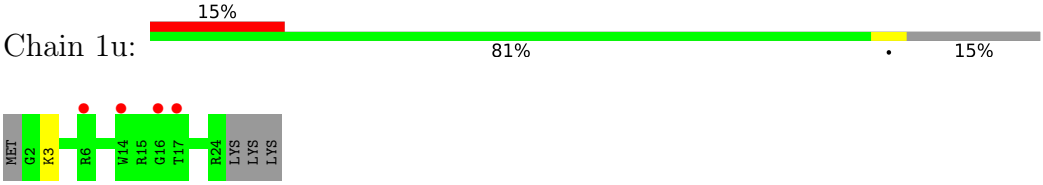
• Molecule 51: 30S ribosomal protein S20

Chain 2t:



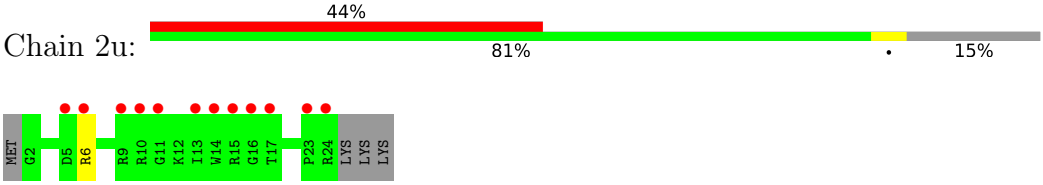
• Molecule 52: 30S ribosomal protein Thx

Chain 1u:



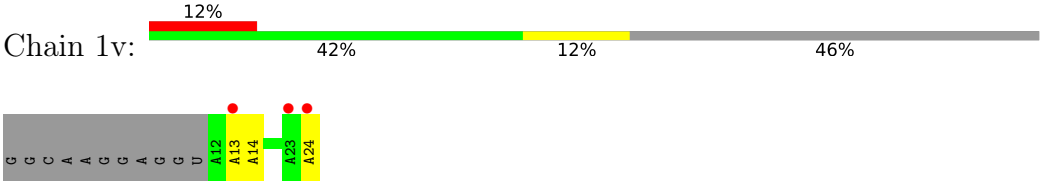
• Molecule 52: 30S ribosomal protein Thx

Chain 2u:



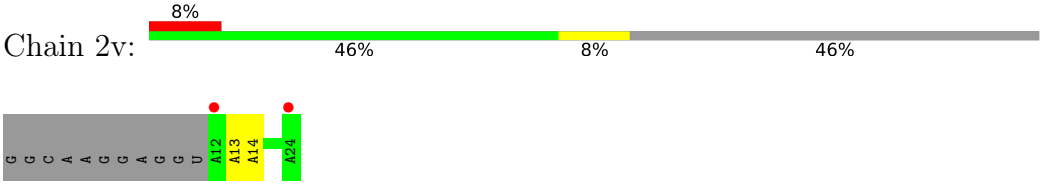
• Molecule 53: mRNA

Chain 1v:



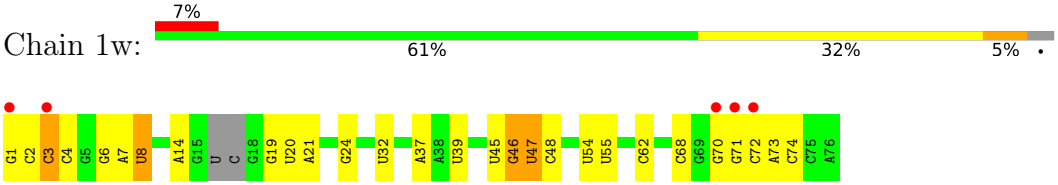
• Molecule 53: mRNA

Chain 2v:



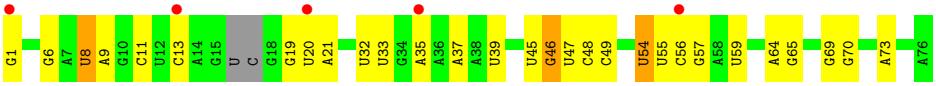
• Molecule 54: A-site and E-site tRNAs

Chain 1w:

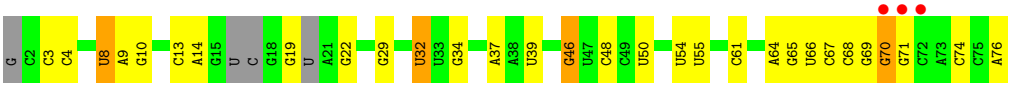


• Molecule 54: A-site and E-site tRNAs

Chain 1y:



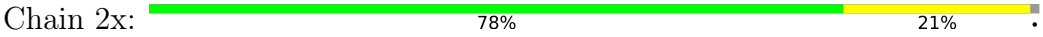
• Molecule 54: A-site and E-site tRNAs

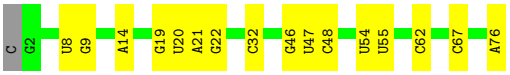


• Molecule 54: A-site and E-site tRNAs

• Molecule 55: P-site tRNA

• Molecule 55: P-site tRNA





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	209.78Å 449.83Å 622.74Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	152.54 – 2.80 181.84 – 2.80	Depositor EDS
% Data completeness (in resolution range)	94.0 (152.54-2.80) 94.0 (181.84-2.80)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.35 (at 2.82Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.214 , 0.269 0.214 , 0.269	Depositor DCC
R_{free} test set	67418 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å^2)	54.9	Xtriage
Anisotropy	0.247	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.30 , 60.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.41$, $< L^2 > = 0.24$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	299109	wwPDB-VP
Average B, all atoms (Å^2)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.07% 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: OMG, ZN, 4SU, 4OC, 2MA, 0TD, 2MG, UR3, 5MU, MG, K, MA6, PSU, SF4, EZG, MIA, M2G, 7MG, 2MU, 5MC

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	0.50	0/69009	0.96	49/107712 (0.0%)
1	2A	0.39	0/67293	0.89	43/105034 (0.0%)
2	1B	0.45	1/2882 (0.0%)	0.88	0/4494
2	2B	0.40	1/2879 (0.0%)	0.92	2/4487 (0.0%)
3	1D	0.35	0/2186	0.55	0/2944
3	2D	0.34	0/2186	0.55	0/2944
4	1E	0.35	0/1592	0.56	0/2149
4	2E	0.30	0/1592	0.51	0/2149
5	1F	0.33	0/1619	0.53	0/2193
5	2F	0.31	0/1615	0.50	0/2188
6	1G	0.30	0/1448	0.49	0/1957
6	2G	0.29	0/1453	0.48	1/1963 (0.1%)
7	1H	0.33	0/1356	0.51	0/1834
7	2H	0.31	0/1356	0.49	1/1834 (0.1%)
8	1I	0.29	0/1112	0.48	0/1514
8	2I	0.28	0/1079	0.47	0/1475
9	1N	0.34	0/1144	0.50	0/1543
9	2N	0.28	0/1144	0.47	0/1543
10	1O	0.36	0/943	0.55	0/1269
10	2O	0.31	0/943	0.52	0/1269
11	1P	0.35	0/1152	0.55	0/1533
11	2P	0.31	0/1152	0.53	0/1533
12	1Q	0.33	0/1143	0.51	0/1527
12	2Q	0.29	0/1143	0.49	0/1527
13	1R	0.32	0/982	0.53	0/1312
13	2R	0.28	0/982	0.49	0/1312
14	1S	0.31	0/883	0.52	0/1176
14	2S	0.29	0/880	0.49	0/1172
15	1T	0.32	0/1105	0.51	0/1477
15	2T	0.28	0/1097	0.47	0/1468
16	1U	0.36	0/977	0.51	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	0.34	0/782	0.56	0/1049
17	2V	0.29	0/782	0.53	0/1049
18	1W	0.34	0/897	0.54	0/1205
18	2W	0.30	0/897	0.51	0/1205
19	1X	0.35	0/764	0.56	0/1025
19	2X	0.30	0/764	0.54	1/1025 (0.1%)
20	1Y	0.34	0/819	0.54	0/1095
20	2Y	0.32	0/819	0.51	0/1095
21	1Z	0.32	0/1267	0.52	0/1717
21	2Z	0.30	0/1299	0.51	0/1763
22	10	0.35	0/662	0.55	0/881
22	20	0.32	0/662	0.49	0/881
23	11	0.34	0/762	0.52	0/1014
23	21	0.31	0/762	0.54	0/1014
24	12	0.33	0/590	0.46	0/781
24	22	0.27	0/590	0.43	0/781
25	13	0.33	0/474	0.50	0/635
25	23	0.28	0/469	0.46	0/630
26	14	0.35	0/565	0.59	0/761
26	24	0.30	0/545	0.50	0/737
27	15	0.36	0/469	0.54	0/635
27	25	0.32	0/469	0.50	0/635
28	16	0.35	0/460	0.53	0/613
28	26	0.31	0/456	0.51	0/608
29	17	0.34	0/426	0.55	0/561
29	27	0.32	0/426	0.54	0/561
30	18	0.34	0/525	0.56	0/691
30	28	0.31	0/525	0.49	0/691
31	19	0.34	0/310	0.53	0/407
31	29	0.30	0/310	0.51	0/407
32	1a	0.36	0/35795	0.88	25/55864 (0.0%)
32	2a	0.36	2/35886 (0.0%)	0.90	38/56005 (0.1%)
33	1b	0.29	0/1881	0.47	0/2542
33	2b	0.30	0/1860	0.50	0/2518
34	1c	0.29	0/1572	0.47	0/2126
34	2c	0.29	0/1566	0.47	0/2119
35	1d	0.29	0/1685	0.46	0/2262
35	2d	0.29	0/1704	0.47	0/2284
36	1e	0.30	0/1145	0.49	0/1543
36	2e	0.29	0/1149	0.52	0/1548
37	1f	0.29	0/823	0.48	0/1115
37	2f	0.30	0/829	0.48	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	1g	0.30	0/1250	0.46	0/1679
38	2g	0.28	0/1254	0.43	0/1683
39	1h	0.29	0/1108	0.47	0/1494
39	2h	0.28	0/1108	0.47	0/1494
40	1i	0.29	0/1002	0.47	0/1346
40	2i	0.29	0/997	0.49	0/1343
41	1j	0.27	0/722	0.47	0/982
41	2j	0.29	0/727	0.50	0/988
42	1k	0.27	0/844	0.47	0/1145
42	2k	0.27	0/848	0.47	0/1149
43	1l	0.31	0/937	0.52	0/1260
43	2l	0.30	0/937	0.55	0/1260
44	1m	0.28	0/969	0.46	0/1302
44	2m	0.28	0/961	0.49	0/1291
45	1n	0.31	0/501	0.47	0/664
45	2n	0.33	0/501	0.50	0/664
46	1o	0.27	0/739	0.42	0/985
46	2o	0.28	0/739	0.46	0/985
47	1p	0.28	0/697	0.50	0/939
47	2p	0.27	0/693	0.47	0/935
48	1q	0.28	0/836	0.48	0/1117
48	2q	0.29	0/836	0.47	0/1117
49	1r	0.30	0/560	0.46	0/746
49	2r	0.28	0/560	0.46	0/746
50	1s	0.29	0/667	0.52	0/900
50	2s	0.30	0/661	0.56	0/893
51	1t	0.28	0/730	0.48	0/965
51	2t	0.27	0/729	0.42	0/965
52	1u	0.28	0/203	0.50	0/266
52	2u	0.30	0/203	0.50	0/266
53	1v	0.38	0/310	0.88	0/480
53	2v	0.49	0/310	0.94	0/480
54	1w	0.51	1/1606 (0.1%)	1.05	5/2497 (0.2%)
54	1y	0.53	1/1606 (0.1%)	1.14	7/2497 (0.3%)
54	2w	0.47	0/1556	1.17	4/2418 (0.2%)
54	2y	0.54	1/1583 (0.1%)	1.09	2/2459 (0.1%)
55	1x	0.48	0/1725	1.09	12/2689 (0.4%)
55	2x	0.45	0/1725	1.09	10/2689 (0.4%)
All	All	0.40	7/316686 (0.0%)	0.83	200/474113 (0.0%)

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	1	G	OP3-P	-10.33	1.48	1.61
54	1y	1	G	OP3-P	-10.31	1.48	1.61
54	2y	1	G	OP3-P	-10.09	1.49	1.61
2	1B	1	U	OP3-P	-10.05	1.49	1.61
2	2B	1	U	OP3-P	-10.04	1.49	1.61
32	2a	1272	G	C6-N1	-8.32	1.33	1.39
32	2a	1272	G	N1-C2	-7.58	1.31	1.37

All (200) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	2a	1272	G	C5-C6-O6	19.26	140.16	128.60
32	2a	1263	C	N1-C2-O2	17.07	129.14	118.90
32	2a	1272	G	N1-C2-N2	-15.02	102.68	116.20
32	2a	1272	G	N3-C2-N2	14.88	130.32	119.90
32	2a	1272	G	N1-C6-O6	-12.36	112.48	119.90
32	2a	1263	C	C2-N3-C4	12.03	125.92	119.90
32	2a	1263	C	N3-C2-O2	-10.82	114.32	121.90
1	2A	2136	C	N1-C2-O2	10.74	125.34	118.90
1	1A	1121	C	N1-C2-O2	10.30	125.08	118.90
32	1a	1025	U	N1-C2-O2	10.04	129.83	122.80
55	1x	46	G	C6-N1-C2	-9.76	119.25	125.10
55	2x	46	G	C6-N1-C2	-9.39	119.46	125.10
1	1A	1109	G	C5-C6-O6	9.36	134.22	128.60
2	2B	80	U	O4'-C1'-N1	9.05	115.44	108.20
32	2a	1263	C	C5-C4-N4	8.83	126.38	120.20
32	2a	1039	C	N1-C2-O2	8.79	124.18	118.90
1	1A	1121	C	C2-N3-C4	8.59	124.19	119.90
1	1A	537	G	O4'-C1'-N9	8.48	114.99	108.20
54	1y	64	A	N1-C6-N6	-8.42	113.55	118.60
1	2A	2136	C	N3-C2-O2	-8.36	116.05	121.90
32	2a	1272	G	C5-C6-N1	-8.29	107.35	111.50
1	2A	2473	U	C2-N1-C1'	8.26	127.61	117.70
32	2a	1272	G	C6-N1-C2	8.08	129.95	125.10
55	2x	14	A	C4-C5-C6	8.08	121.04	117.00
54	1y	33	U	C2-N1-C1'	7.97	127.26	117.70
54	1w	47	U	C2-N1-C1'	7.93	127.22	117.70
1	2A	2149	G	N3-C4-N9	7.93	130.76	126.00
1	1A	1045	U	O5'-P-OP2	-7.86	98.63	105.70
54	1y	64	A	C5-C6-N6	7.76	129.91	123.70
32	2a	1263	C	C6-N1-C2	-7.74	117.20	120.30
32	2a	1025	U	N1-C2-O2	7.71	128.19	122.80
32	2a	79	G	C5-C6-O6	7.69	133.21	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	2a	1272	G	C2-N3-C4	-7.57	108.11	111.90
1	1A	12	U	C2-N1-C1'	7.47	126.66	117.70
55	2x	22	G	C5-N7-C8	-7.39	100.60	104.30
1	1A	1686	U	O5'-P-OP2	-7.38	99.06	105.70
32	1a	1030(B)	C	C2-N1-C1'	7.32	126.85	118.80
1	1A	2158	C	C2-N1-C1'	7.23	126.75	118.80
32	2a	1263	C	C5-C6-N1	7.23	124.61	121.00
32	1a	1025	U	N3-C2-O2	-7.21	117.15	122.20
55	2x	14	A	C5-N7-C8	7.20	107.50	103.90
55	1x	14	A	C4-C5-C6	7.03	120.51	117.00
54	1y	56	C	N1-C2-O2	7.01	123.11	118.90
32	1a	1030	C	N1-C2-O2	6.95	123.07	118.90
55	1x	22	G	N1-C6-O6	-6.93	115.74	119.90
32	2a	1272	G	C4-N9-C1'	6.89	135.46	126.50
32	1a	1025	U	C2-N1-C1'	6.83	125.90	117.70
55	1x	46	G	C5-C6-N1	6.79	114.90	111.50
1	1A	1109	G	C6-N1-C2	6.78	129.17	125.10
32	2a	1001(A)	G	N3-C2-N2	6.76	124.63	119.90
1	1A	2177	G	C5-C6-O6	-6.74	124.56	128.60
32	1a	1036	G	N3-C2-N2	-6.68	115.22	119.90
1	2A	801	G	O5'-P-OP2	-6.65	99.72	105.70
32	2a	1263	C	N3-C4-N4	-6.62	113.36	118.00
1	2A	1313	U	C2-N1-C1'	6.60	125.62	117.70
32	2a	1029	C	N1-C2-O2	6.57	122.84	118.90
32	1a	1027	C	N3-C4-C5	-6.53	119.29	121.90
55	2x	14	A	C5-C6-N1	-6.52	114.44	117.70
1	1A	2189	U	C2-N1-C1'	6.51	125.51	117.70
55	1x	14	A	C5-C6-N1	-6.49	114.45	117.70
1	2A	2142	C	C2-N1-C1'	6.43	125.88	118.80
55	2x	22	G	C4-C5-C6	-6.39	114.97	118.80
32	2a	754	C	C2-N1-C1'	6.37	125.81	118.80
55	1x	22	G	C5-N7-C8	-6.35	101.12	104.30
1	2A	504	U	C2-N1-C1'	6.35	125.32	117.70
1	1A	1121	C	C5-C4-N4	6.34	124.64	120.20
1	2A	2149	G	N9-C4-C5	-6.34	102.86	105.40
1	1A	2252	C	N1-C2-O2	6.32	122.69	118.90
55	2x	46	G	C5-C6-N1	6.30	114.65	111.50
1	1A	2177	G	N1-C6-O6	6.29	123.67	119.90
1	2A	1698	A	O4'-C1'-N9	6.26	113.21	108.20
1	1A	1359	U	C2-N1-C1'	6.25	125.20	117.70
55	1x	14	A	C5-N7-C8	6.21	107.01	103.90
32	2a	754	C	N1-C2-O2	6.21	122.63	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1109	G	N3-C2-N2	6.21	124.25	119.90
32	1a	1030(B)	C	N1-C2-O2	6.19	122.61	118.90
1	1A	2014	G	P-O3'-C3'	6.18	127.11	119.70
32	1a	1030	C	C2-N3-C4	6.14	122.97	119.90
1	1A	2158	C	N1-C2-O2	6.13	122.58	118.90
32	2a	1272	G	C8-N9-C1'	-6.13	119.03	127.00
55	1x	22	G	C4-C5-C6	-6.11	115.14	118.80
1	1A	894	U	C2-N1-C1'	6.09	125.00	117.70
1	2A	1614	A	O5'-P-OP1	-6.06	100.24	105.70
32	1a	1030(B)	C	C6-N1-C2	-6.05	117.88	120.30
32	2a	1025	U	N3-C2-O2	-6.03	117.98	122.20
54	1y	33	U	N1-C2-O2	6.03	127.02	122.80
1	1A	1121	C	N3-C2-O2	-6.02	117.68	121.90
1	1A	2858	G	O4'-C1'-N9	6.00	113.00	108.20
1	1A	599	U	O5'-P-OP1	-5.98	100.32	105.70
1	2A	2149	G	C8-N9-C1'	-5.93	119.29	127.00
1	2A	90	U	C2-N1-C1'	5.85	124.72	117.70
32	2a	1001(A)	G	N9-C4-C5	-5.82	103.07	105.40
1	1A	1321	A	N1-C6-N6	5.82	122.09	118.60
32	1a	1029	C	C2-N3-C4	5.82	122.81	119.90
1	1A	2189	U	N1-C2-O2	5.80	126.86	122.80
1	2A	2473	U	N1-C2-O2	5.80	126.86	122.80
1	1A	2158	C	C6-N1-C1'	-5.79	113.85	120.80
32	2a	1043	C	N1-C2-O2	5.79	122.38	118.90
1	2A	2149	G	C4-N9-C1'	5.79	134.03	126.50
32	2a	1039	C	C2-N3-C4	5.78	122.79	119.90
55	1x	22	G	C5-C6-N1	5.77	114.38	111.50
1	1A	1295	U	O5'-P-OP1	-5.76	100.51	105.70
1	1A	1219	A	OP1-P-O3'	5.76	117.88	105.20
32	1a	841	U	C5-C6-N1	5.75	125.57	122.70
1	1A	215	G	O4'-C1'-N9	5.74	112.79	108.20
55	2x	22	G	N3-C4-N9	-5.72	122.56	126.00
32	2a	1001(A)	G	N3-C4-N9	5.72	129.43	126.00
54	2w	67	C	C5-C4-N4	5.70	124.19	120.20
1	2A	614	U	N3-C2-O2	-5.70	118.21	122.20
2	2B	1	U	C2-N1-C1'	5.70	124.54	117.70
1	1A	2001	C	C6-N1-C2	-5.69	118.02	120.30
1	1A	892	G	O4'-C1'-N9	5.68	112.75	108.20
1	2A	2149	G	C6-C5-N7	-5.68	126.99	130.40
1	1A	1311	A	O5'-P-OP2	-5.67	100.60	105.70
32	1a	266	G	P-O3'-C3'	5.65	126.48	119.70
1	1A	1109	G	N1-C6-O6	-5.64	116.51	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	1786	A	O4'-C1'-N9	5.64	112.72	108.20
32	2a	1030	C	N1-C2-O2	5.64	122.28	118.90
32	1a	1025	U	C6-N1-C1'	-5.63	113.32	121.20
55	2x	22	G	N3-C4-C5	5.59	131.40	128.60
32	1a	1067	A	P-O3'-C3'	5.58	126.40	119.70
54	2w	70	G	N3-C2-N2	-5.56	116.01	119.90
32	2a	266	G	N3-C4-C5	-5.55	125.83	128.60
54	1y	33	U	C6-N1-C1'	-5.54	113.44	121.20
1	2A	2136	C	C2-N1-C1'	5.52	124.87	118.80
1	2A	2473	U	C6-N1-C1'	-5.52	113.48	121.20
1	1A	2189	U	N3-C2-O2	-5.51	118.34	122.20
1	1A	1388	A	O5'-P-OP2	-5.51	100.74	105.70
55	1x	14	A	C4-N9-C1'	5.46	136.13	126.30
1	1A	840	A	O5'-P-OP2	-5.45	100.79	105.70
55	1x	14	A	C8-N9-C1'	-5.43	117.92	127.70
1	1A	1302	G	N9-C4-C5	-5.43	103.23	105.40
32	2a	1158	C	C2-N1-C1'	5.42	124.77	118.80
7	2H	98	LEU	CA-CB-CG	5.41	127.74	115.30
1	2A	928	G	C6-C5-N7	-5.41	127.16	130.40
1	1A	410	U	C2-N1-C1'	-5.40	111.22	117.70
1	2A	945	A	N1-C6-N6	5.40	121.84	118.60
54	1w	47	U	C5-C6-N1	5.39	125.40	122.70
1	1A	12	U	C5-C6-N1	5.39	125.39	122.70
54	1w	47	U	C6-N1-C1'	-5.38	113.66	121.20
1	2A	228	A	P-O3'-C3'	5.38	126.15	119.70
54	1w	3	C	C2-N1-C1'	5.37	124.71	118.80
1	2A	2142	C	N1-C2-O2	5.37	122.12	118.90
1	2A	2096	U	N1-C2-O2	5.37	126.56	122.80
54	1y	33	U	C5-C6-N1	5.37	125.38	122.70
1	2A	1992	G	P-O3'-C3'	5.36	126.13	119.70
55	2x	22	G	C8-N9-C1'	5.35	133.96	127.00
1	1A	1302	G	C8-N9-C1'	-5.34	120.05	127.00
6	2G	177	GLY	C-N-CA	-5.34	108.34	121.70
1	2A	383	U	O4'-C1'-N1	5.33	112.47	108.20
32	1a	687	A	P-O3'-C3'	5.32	126.09	119.70
1	2A	2335	A	O4'-C1'-N9	5.32	112.45	108.20
1	2A	928	G	N1-C6-O6	5.29	123.07	119.90
32	1a	975	A	O4'-C1'-N9	-5.29	103.97	108.20
1	2A	2149	G	C4-C5-N7	5.28	112.91	110.80
1	2A	2155	G	N9-C4-C5	-5.28	103.29	105.40
32	1a	115	G	P-O3'-C3'	5.27	126.03	119.70
1	2A	2163	C	C6-N1-C2	-5.27	118.19	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	2y	7	A	C6-N1-C2	-5.26	115.44	118.60
32	1a	1065	U	P-O3'-C3'	5.26	126.01	119.70
1	2A	2174	C	N1-C2-O2	5.26	122.06	118.90
54	2y	66	U	C5-C4-O4	-5.26	122.74	125.90
1	2A	2848	G	O4'-C1'-N9	5.26	112.41	108.20
1	1A	1807	G	O5'-P-OP2	-5.24	100.98	105.70
32	1a	1030(B)	C	N3-C2-O2	-5.24	118.24	121.90
1	2A	1698	A	C6-C5-N7	-5.23	128.64	132.30
32	1a	1201	A	P-O3'-C3'	5.23	125.98	119.70
32	2a	266	G	P-O3'-C3'	5.23	125.97	119.70
1	1A	2803	A	C2-N3-C4	5.23	113.21	110.60
1	2A	2473	U	N3-C2-O2	-5.23	118.54	122.20
32	2a	1132	C	C2-N1-C1'	5.21	124.53	118.80
1	1A	2485	U	N3-C2-O2	-5.20	118.56	122.20
1	2A	986	C	C6-N1-C2	-5.19	118.22	120.30
32	1a	1036	G	C6-N1-C2	-5.18	121.99	125.10
1	1A	507	G	O4'-C1'-N9	5.18	112.34	108.20
1	2A	528	A	P-O3'-C3'	5.17	125.91	119.70
1	2A	901	A	N7-C8-N9	5.17	116.39	113.80
32	1a	1442	G	N3-C4-C5	-5.17	126.02	128.60
1	1A	1132	A	N1-C6-N6	-5.16	115.50	118.60
32	2a	1272	G	N1-C2-N3	5.16	127.00	123.90
32	1a	1027	C	C6-N1-C1'	5.14	126.97	120.80
54	2w	70	G	N9-C4-C5	5.13	107.45	105.40
1	2A	195	A	P-O3'-C3'	5.12	125.84	119.70
54	2w	10	G	C4-N9-C1'	5.11	133.15	126.50
1	1A	1359	U	N3-C2-O2	-5.11	118.63	122.20
1	1A	12	U	C6-N1-C1'	-5.09	114.07	121.20
1	2A	512	G	O4'-C1'-N9	5.09	112.27	108.20
1	1A	1700	G	C8-N9-C4	-5.09	104.36	106.40
32	2a	1125	U	C2-N1-C1'	5.08	123.80	117.70
54	1w	47	U	N1-C2-O2	5.07	126.35	122.80
32	2a	913	A	P-O3'-C3'	5.07	125.79	119.70
32	2a	1322	C	N1-C2-O2	-5.07	115.86	118.90
55	1x	46	G	N9-C4-C5	5.07	107.43	105.40
19	2X	57	LEU	CA-CB-CG	5.06	126.94	115.30
1	1A	1020	C	N1-C2-O2	-5.05	115.87	118.90
1	2A	2318	G	N3-C4-C5	-5.05	126.08	128.60
1	2A	504	U	N1-C2-O2	5.04	126.33	122.80
1	1A	2561	G	N1-C6-O6	5.03	122.92	119.90
32	2a	1442	G	P-O3'-C3'	5.02	125.72	119.70
32	1a	913	A	P-O3'-C3'	5.00	125.70	119.70

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1D	273/276 (99%)	257 (94%)	16 (6%)	0	100	100
3	2D	273/276 (99%)	254 (93%)	18 (7%)	1 (0%)	34	66
4	1E	202/206 (98%)	189 (94%)	12 (6%)	1 (0%)	29	61
4	2E	202/206 (98%)	190 (94%)	11 (5%)	1 (0%)	29	61
5	1F	201/210 (96%)	196 (98%)	4 (2%)	1 (0%)	29	61
5	2F	201/210 (96%)	184 (92%)	13 (6%)	4 (2%)	7	24
6	1G	179/182 (98%)	168 (94%)	10 (6%)	1 (1%)	25	56
6	2G	179/182 (98%)	156 (87%)	18 (10%)	5 (3%)	5	17
7	1H	172/180 (96%)	160 (93%)	11 (6%)	1 (1%)	25	56
7	2H	172/180 (96%)	149 (87%)	20 (12%)	3 (2%)	9	29
8	1I	144/148 (97%)	133 (92%)	10 (7%)	1 (1%)	22	53
8	2I	144/148 (97%)	126 (88%)	17 (12%)	1 (1%)	22	53
9	1N	138/140 (99%)	131 (95%)	7 (5%)	0	100	100
9	2N	138/140 (99%)	126 (91%)	9 (6%)	3 (2%)	6	22
10	1O	120/122 (98%)	112 (93%)	8 (7%)	0	100	100
10	2O	120/122 (98%)	111 (92%)	7 (6%)	2 (2%)	9	29
11	1P	147/150 (98%)	138 (94%)	9 (6%)	0	100	100
11	2P	147/150 (98%)	134 (91%)	11 (8%)	2 (1%)	11	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
12	1Q	139/141 (99%)	131 (94%)	7 (5%)	1 (1%)	22 53
12	2Q	139/141 (99%)	128 (92%)	10 (7%)	1 (1%)	22 53
13	1R	116/118 (98%)	110 (95%)	6 (5%)	0	100 100
13	2R	116/118 (98%)	109 (94%)	5 (4%)	2 (2%)	9 29
14	1S	108/112 (96%)	102 (94%)	5 (5%)	1 (1%)	17 46
14	2S	108/112 (96%)	100 (93%)	6 (6%)	2 (2%)	8 26
15	1T	129/146 (88%)	120 (93%)	8 (6%)	1 (1%)	19 49
15	2T	129/146 (88%)	118 (92%)	10 (8%)	1 (1%)	19 49
16	1U	114/118 (97%)	113 (99%)	1 (1%)	0	100 100
16	2U	114/118 (97%)	111 (97%)	3 (3%)	0	100 100
17	1V	99/101 (98%)	97 (98%)	1 (1%)	1 (1%)	15 44
17	2V	99/101 (98%)	93 (94%)	5 (5%)	1 (1%)	15 44
18	1W	110/113 (97%)	108 (98%)	2 (2%)	0	100 100
18	2W	110/113 (97%)	107 (97%)	3 (3%)	0	100 100
19	1X	93/96 (97%)	90 (97%)	3 (3%)	0	100 100
19	2X	93/96 (97%)	84 (90%)	9 (10%)	0	100 100
20	1Y	105/110 (96%)	96 (91%)	8 (8%)	1 (1%)	15 44
20	2Y	105/110 (96%)	96 (91%)	7 (7%)	2 (2%)	8 26
21	1Z	148/206 (72%)	133 (90%)	14 (10%)	1 (1%)	22 53
21	2Z	156/206 (76%)	132 (85%)	19 (12%)	5 (3%)	4 13
22	10	81/85 (95%)	79 (98%)	2 (2%)	0	100 100
22	20	81/85 (95%)	77 (95%)	3 (4%)	1 (1%)	13 39
23	11	95/98 (97%)	93 (98%)	2 (2%)	0	100 100
23	21	95/98 (97%)	91 (96%)	4 (4%)	0	100 100
24	12	68/72 (94%)	66 (97%)	2 (3%)	0	100 100
24	22	68/72 (94%)	63 (93%)	4 (6%)	1 (2%)	10 33
25	13	57/60 (95%)	54 (95%)	3 (5%)	0	100 100
25	23	57/60 (95%)	53 (93%)	3 (5%)	1 (2%)	8 28
26	14	67/71 (94%)	55 (82%)	8 (12%)	4 (6%)	1 4
26	24	67/71 (94%)	50 (75%)	13 (19%)	4 (6%)	1 4
27	15	57/60 (95%)	55 (96%)	2 (4%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
27	25	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
28	16	51/54 (94%)	49 (96%)	2 (4%)	0	100	100
28	26	51/54 (94%)	44 (86%)	7 (14%)	0	100	100
29	17	46/49 (94%)	46 (100%)	0	0	100	100
29	27	46/49 (94%)	43 (94%)	2 (4%)	1 (2%)	6	22
30	18	62/65 (95%)	61 (98%)	1 (2%)	0	100	100
30	28	62/65 (95%)	59 (95%)	3 (5%)	0	100	100
31	19	35/37 (95%)	34 (97%)	1 (3%)	0	100	100
31	29	35/37 (95%)	32 (91%)	3 (9%)	0	100	100
33	1b	229/256 (90%)	192 (84%)	27 (12%)	10 (4%)	2	8
33	2b	229/256 (90%)	200 (87%)	20 (9%)	9 (4%)	3	10
34	1c	204/239 (85%)	190 (93%)	11 (5%)	3 (2%)	10	33
34	2c	204/239 (85%)	173 (85%)	25 (12%)	6 (3%)	4	15
35	1d	206/209 (99%)	190 (92%)	13 (6%)	3 (2%)	10	33
35	2d	206/209 (99%)	187 (91%)	15 (7%)	4 (2%)	8	26
36	1e	146/162 (90%)	134 (92%)	10 (7%)	2 (1%)	11	34
36	2e	146/162 (90%)	131 (90%)	14 (10%)	1 (1%)	22	53
37	1f	98/101 (97%)	94 (96%)	4 (4%)	0	100	100
37	2f	98/101 (97%)	91 (93%)	7 (7%)	0	100	100
38	1g	153/156 (98%)	138 (90%)	12 (8%)	3 (2%)	7	24
38	2g	153/156 (98%)	135 (88%)	15 (10%)	3 (2%)	7	24
39	1h	135/138 (98%)	129 (96%)	4 (3%)	2 (2%)	10	33
39	2h	135/138 (98%)	125 (93%)	8 (6%)	2 (2%)	10	33
40	1i	125/128 (98%)	110 (88%)	15 (12%)	0	100	100
40	2i	125/128 (98%)	113 (90%)	12 (10%)	0	100	100
41	1j	95/105 (90%)	83 (87%)	8 (8%)	4 (4%)	3	9
41	2j	94/105 (90%)	79 (84%)	11 (12%)	4 (4%)	2	8
42	1k	112/129 (87%)	105 (94%)	6 (5%)	1 (1%)	17	46
42	2k	112/129 (87%)	103 (92%)	6 (5%)	3 (3%)	5	17
43	1l	119/132 (90%)	110 (92%)	8 (7%)	1 (1%)	19	49
43	2l	119/132 (90%)	103 (87%)	15 (13%)	1 (1%)	19	49

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
44	1m	121/126 (96%)	112 (93%)	9 (7%)	0	100 100
44	2m	120/126 (95%)	102 (85%)	15 (12%)	3 (2%)	5 19
45	1n	58/61 (95%)	52 (90%)	6 (10%)	0	100 100
45	2n	58/61 (95%)	53 (91%)	5 (9%)	0	100 100
46	1o	86/89 (97%)	80 (93%)	5 (6%)	1 (1%)	13 39
46	2o	86/89 (97%)	80 (93%)	5 (6%)	1 (1%)	13 39
47	1p	80/88 (91%)	69 (86%)	10 (12%)	1 (1%)	12 36
47	2p	80/88 (91%)	72 (90%)	8 (10%)	0	100 100
48	1q	97/105 (92%)	87 (90%)	9 (9%)	1 (1%)	15 44
48	2q	97/105 (92%)	91 (94%)	6 (6%)	0	100 100
49	1r	66/88 (75%)	60 (91%)	6 (9%)	0	100 100
49	2r	66/88 (75%)	64 (97%)	2 (3%)	0	100 100
50	1s	81/93 (87%)	68 (84%)	12 (15%)	1 (1%)	13 39
50	2s	81/93 (87%)	66 (82%)	13 (16%)	2 (2%)	5 19
51	1t	94/106 (89%)	84 (89%)	5 (5%)	5 (5%)	2 6
51	2t	94/106 (89%)	83 (88%)	5 (5%)	6 (6%)	1 3
52	1u	21/27 (78%)	18 (86%)	2 (10%)	1 (5%)	2 7
52	2u	21/27 (78%)	19 (90%)	2 (10%)	0	100 100
All	All	11370/12128 (94%)	10425 (92%)	802 (7%)	143 (1%)	12 36

All (143) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	1F	130	ALA
6	1G	43	LEU
7	1H	126	PRO
26	14	53	GLU
33	1b	22	LYS
34	1c	107	GLN
38	1g	4	ARG
50	1s	81	ARG
3	2D	3	VAL
6	2G	47	LYS
12	2Q	27	VAL
26	24	45	GLY
29	27	46	VAL

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Mol	Chain	Res	Type
33	2b	16	HIS
33	2b	17	PHE
33	2b	21	ARG
33	2b	125	PRO
36	2e	77	PRO
41	2j	79	ARG
8	1I	11	ASN
20	1Y	54	LYS
26	14	45	GLY
33	1b	126	GLU
36	1e	21	ALA
38	1g	6	ARG
41	1j	79	ARG
43	1l	91	LYS
5	2F	130	ALA
7	2H	47	GLU
7	2H	126	PRO
9	2N	48	MET
10	2O	5	GLN
11	2P	29	LYS
13	2R	14	SER
17	2V	79	VAL
21	2Z	171	ILE
33	2b	95	GLN
33	2b	231	GLU
34	2c	91	LEU
34	2c	156	ARG
35	2d	179	GLU
38	2g	4	ARG
41	2j	75	ILE
42	2k	49	GLY
46	2o	88	ARG
51	2t	9	ASN
51	2t	10	LEU
51	2t	47	GLY
15	1T	37	GLY
17	1V	79	VAL
26	14	61	ARG
33	1b	20	GLU
33	1b	231	GLU
35	1d	173	TRP
35	1d	178	VAL

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Mol	Chain	Res	Type
36	1e	86	ALA
41	1j	29	ARG
41	1j	77	PRO
46	1o	19	PRO
51	1t	47	GLY
51	1t	95	ALA
4	2E	52	LEU
5	2F	21	ALA
6	2G	124	SER
7	2H	29	PRO
8	2I	116	LEU
9	2N	2	LYS
14	2S	84	GLN
20	2Y	102	CYS
20	2Y	103	GLY
21	2Z	167	PRO
26	24	61	ARG
33	2b	20	GLU
33	2b	123	ALA
34	2c	181	ASN
35	2d	181	MET
38	2g	55	GLY
51	2t	95	ALA
4	1E	52	LEU
12	1Q	17	LEU
26	14	57	GLU
33	1b	9	GLU
33	1b	17	PHE
33	1b	21	ARG
33	1b	207	ALA
38	1g	80	VAL
51	1t	100	ILE
52	1u	3	LYS
9	2N	59	LYS
11	2P	45	LEU
13	2R	2	ARG
21	2Z	142	SER
24	22	46	GLN
33	2b	158	LEU
34	2c	64	VAL
34	2c	92	ALA
34	2c	95	THR

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Mol	Chain	Res	Type
35	2d	5	ILE
35	2d	10	ARG
38	2g	80	VAL
41	2j	31	GLY
42	2k	106	LYS
44	2m	106	ASN
50	2s	76	PRO
51	2t	102	GLY
14	1S	94	TYR
33	1b	16	HIS
34	1c	66	VAL
35	1d	179	GLU
39	1h	133	LEU
48	1q	33	GLY
51	1t	10	LEU
5	2F	168	ARG
6	2G	51	ARG
6	2G	179	PRO
15	2T	117	ASP
22	20	12	ASN
26	24	29	PRO
26	24	55	ARG
39	2h	3	THR
43	2l	51	ALA
50	2s	81	ARG
51	2t	99	LEU
21	1Z	156	LYS
47	1p	53	VAL
51	1t	102	GLY
5	2F	133	ASN
10	2O	88	ASN
14	2S	96	GLY
39	1h	83	ILE
42	1k	105	VAL
21	2Z	147	GLY
42	2k	105	VAL
44	2m	4	ILE
33	1b	230	VAL
41	1j	39	PRO
6	2G	177	GLY
41	2j	39	PRO
39	2h	73	ASP

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Mol	Chain	Res	Type
44	2m	6	GLY
34	1c	174	PRO
21	2Z	165	VAL
25	23	50	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	1D	215/218 (99%)	200 (93%)	15 (7%)	15 40
3	2D	215/218 (99%)	206 (96%)	9 (4%)	30 63
4	1E	164/166 (99%)	152 (93%)	12 (7%)	14 38
4	2E	164/166 (99%)	148 (90%)	16 (10%)	8 24
5	1F	160/166 (96%)	144 (90%)	16 (10%)	7 22
5	2F	159/166 (96%)	144 (91%)	15 (9%)	8 26
6	1G	143/156 (92%)	133 (93%)	10 (7%)	15 40
6	2G	143/156 (92%)	134 (94%)	9 (6%)	18 46
7	1H	144/148 (97%)	138 (96%)	6 (4%)	30 63
7	2H	144/148 (97%)	138 (96%)	6 (4%)	30 63
8	1I	113/124 (91%)	104 (92%)	9 (8%)	12 34
8	2I	105/124 (85%)	99 (94%)	6 (6%)	20 50
9	1N	118/119 (99%)	110 (93%)	8 (7%)	16 42
9	2N	118/119 (99%)	108 (92%)	10 (8%)	10 31
10	1O	100/100 (100%)	97 (97%)	3 (3%)	41 75
10	2O	100/100 (100%)	100 (100%)	0	100 100
11	1P	115/116 (99%)	109 (95%)	6 (5%)	23 55
11	2P	115/116 (99%)	111 (96%)	4 (4%)	36 70
12	1Q	111/111 (100%)	105 (95%)	6 (5%)	22 53
12	2Q	111/111 (100%)	102 (92%)	9 (8%)	11 33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
13	1R	101/101 (100%)	90 (89%)	11 (11%)	6 19
13	2R	101/101 (100%)	92 (91%)	9 (9%)	9 28
14	1S	86/88 (98%)	78 (91%)	8 (9%)	9 26
14	2S	85/88 (97%)	78 (92%)	7 (8%)	11 33
15	1T	115/127 (91%)	112 (97%)	3 (3%)	46 79
15	2T	113/127 (89%)	105 (93%)	8 (7%)	14 39
16	1U	93/94 (99%)	85 (91%)	8 (9%)	10 30
16	2U	93/94 (99%)	91 (98%)	2 (2%)	52 83
17	1V	80/82 (98%)	73 (91%)	7 (9%)	10 29
17	2V	80/82 (98%)	71 (89%)	9 (11%)	6 18
18	1W	90/92 (98%)	87 (97%)	3 (3%)	38 72
18	2W	90/92 (98%)	83 (92%)	7 (8%)	12 35
19	1X	77/78 (99%)	73 (95%)	4 (5%)	23 55
19	2X	77/78 (99%)	74 (96%)	3 (4%)	32 66
20	1Y	85/91 (93%)	80 (94%)	5 (6%)	19 49
20	2Y	85/91 (93%)	79 (93%)	6 (7%)	14 39
21	1Z	135/179 (75%)	123 (91%)	12 (9%)	9 28
21	2Z	137/179 (76%)	128 (93%)	9 (7%)	16 44
22	10	65/67 (97%)	62 (95%)	3 (5%)	27 60
22	20	65/67 (97%)	63 (97%)	2 (3%)	40 74
23	11	80/83 (96%)	77 (96%)	3 (4%)	33 67
23	21	80/83 (96%)	80 (100%)	0	100 100
24	12	65/67 (97%)	62 (95%)	3 (5%)	27 60
24	22	65/67 (97%)	64 (98%)	1 (2%)	65 89
25	13	51/52 (98%)	50 (98%)	1 (2%)	55 84
25	23	50/52 (96%)	45 (90%)	5 (10%)	7 22
26	14	59/63 (94%)	55 (93%)	4 (7%)	16 42
26	24	53/63 (84%)	49 (92%)	4 (8%)	13 37
27	15	50/52 (96%)	44 (88%)	6 (12%)	5 15
27	25	50/52 (96%)	47 (94%)	3 (6%)	19 48
28	16	51/52 (98%)	47 (92%)	4 (8%)	12 35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
28	26	50/52 (96%)	45 (90%)	5 (10%)	7 22
29	17	41/42 (98%)	37 (90%)	4 (10%)	8 24
29	27	41/42 (98%)	39 (95%)	2 (5%)	25 57
30	18	54/55 (98%)	49 (91%)	5 (9%)	9 26
30	28	54/55 (98%)	49 (91%)	5 (9%)	9 26
31	19	34/34 (100%)	34 (100%)	0	100 100
31	29	34/34 (100%)	33 (97%)	1 (3%)	42 76
33	1b	192/220 (87%)	184 (96%)	8 (4%)	30 63
33	2b	187/220 (85%)	174 (93%)	13 (7%)	15 40
34	1c	142/188 (76%)	136 (96%)	6 (4%)	30 63
34	2c	140/188 (74%)	133 (95%)	7 (5%)	24 56
35	1d	169/181 (93%)	159 (94%)	10 (6%)	19 49
35	2d	173/181 (96%)	162 (94%)	11 (6%)	17 45
36	1e	113/123 (92%)	105 (93%)	8 (7%)	14 39
36	2e	114/123 (93%)	108 (95%)	6 (5%)	22 54
37	1f	84/90 (93%)	81 (96%)	3 (4%)	35 69
37	2f	85/90 (94%)	82 (96%)	3 (4%)	36 70
38	1g	119/127 (94%)	114 (96%)	5 (4%)	30 63
38	2g	120/127 (94%)	111 (92%)	9 (8%)	13 37
39	1h	114/119 (96%)	108 (95%)	6 (5%)	22 54
39	2h	114/119 (96%)	107 (94%)	7 (6%)	18 48
40	1i	90/99 (91%)	86 (96%)	4 (4%)	28 61
40	2i	89/99 (90%)	85 (96%)	4 (4%)	27 60
41	1j	66/92 (72%)	64 (97%)	2 (3%)	41 75
41	2j	69/92 (75%)	64 (93%)	5 (7%)	14 38
42	1k	82/99 (83%)	78 (95%)	4 (5%)	25 57
42	2k	83/99 (84%)	78 (94%)	5 (6%)	19 48
43	1l	96/108 (89%)	86 (90%)	10 (10%)	7 21
43	2l	96/108 (89%)	93 (97%)	3 (3%)	40 74
44	1m	93/101 (92%)	87 (94%)	6 (6%)	17 44
44	2m	92/101 (91%)	90 (98%)	2 (2%)	52 83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
45	1n	49/50 (98%)	43 (88%)	6 (12%)	5 15
45	2n	49/50 (98%)	44 (90%)	5 (10%)	7 22
46	1o	78/80 (98%)	76 (97%)	2 (3%)	46 79
46	2o	78/80 (98%)	75 (96%)	3 (4%)	33 67
47	1p	69/74 (93%)	66 (96%)	3 (4%)	29 62
47	2p	68/74 (92%)	65 (96%)	3 (4%)	28 61
48	1q	94/97 (97%)	91 (97%)	3 (3%)	39 73
48	2q	94/97 (97%)	89 (95%)	5 (5%)	22 54
49	1r	59/77 (77%)	55 (93%)	4 (7%)	16 42
49	2r	59/77 (77%)	57 (97%)	2 (3%)	37 71
50	1s	69/80 (86%)	67 (97%)	2 (3%)	42 76
50	2s	67/80 (84%)	64 (96%)	3 (4%)	27 60
51	1t	70/82 (85%)	67 (96%)	3 (4%)	29 62
51	2t	70/82 (85%)	65 (93%)	5 (7%)	14 39
52	1u	18/22 (82%)	18 (100%)	0	100 100
52	2u	18/22 (82%)	17 (94%)	1 (6%)	21 51
All	All	9303/10064 (92%)	8749 (94%)	554 (6%)	19 48

All (554) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	61	LEU
3	1D	71	ASP
3	1D	88	ARG
3	1D	113	VAL
3	1D	147	LEU
3	1D	155	LEU
3	1D	162	SER
3	1D	176	ARG
3	1D	193	VAL
3	1D	211	ARG
3	1D	221	VAL
3	1D	229	VAL
3	1D	242	ARG
3	1D	257	LEU
3	1D	273	ARG

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Mol	Chain	Res	Type
4	1E	1	MET
4	1E	12	THR
4	1E	21	VAL
4	1E	33	VAL
4	1E	47	VAL
4	1E	73	GLU
4	1E	78	LEU
4	1E	92	THR
4	1E	113	PHE
4	1E	116	VAL
4	1E	175	VAL
4	1E	181	LEU
5	1F	33	LEU
5	1F	53	THR
5	1F	57	VAL
5	1F	70	THR
5	1F	74	ARG
5	1F	88	VAL
5	1F	95	ARG
5	1F	106	ARG
5	1F	110	LEU
5	1F	125	LEU
5	1F	161	GLU
5	1F	170	LEU
5	1F	175	THR
5	1F	183	VAL
5	1F	189	THR
5	1F	192	LEU
6	1G	3	LEU
6	1G	31	VAL
6	1G	43	LEU
6	1G	60	LEU
6	1G	109	VAL
6	1G	126	ASP
6	1G	133	LEU
6	1G	145	THR
6	1G	159	VAL
6	1G	175	LEU
7	1H	56	SER
7	1H	69	ARG
7	1H	71	LEU
7	1H	88	LEU

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Mol	Chain	Res	Type
7	1H	134	SER
7	1H	155	SER
8	1I	1	MET
8	1I	2	LYS
8	1I	9	LEU
8	1I	12	LEU
8	1I	20	ASP
8	1I	38	LEU
8	1I	92	VAL
8	1I	129	THR
8	1I	142	VAL
9	1N	28	THR
9	1N	33	LEU
9	1N	34	LEU
9	1N	35	ARG
9	1N	48	MET
9	1N	62	VAL
9	1N	87	LEU
9	1N	99	LEU
10	1O	9	GLU
10	1O	97	ARG
10	1O	108	GLU
11	1P	55	ARG
11	1P	59	LEU
11	1P	83	VAL
11	1P	98	GLU
11	1P	112	LEU
11	1P	125	VAL
12	1Q	7	MET
12	1Q	89	ASN
12	1Q	109	VAL
12	1Q	110	THR
12	1Q	135	ASP
12	1Q	138	ASP
13	1R	6	SER
13	1R	24	GLN
13	1R	29	LEU
13	1R	36	THR
13	1R	37	THR
13	1R	44	LEU
13	1R	54	LEU
13	1R	67	LEU

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Mol	Chain	Res	Type
13	1R	79	LEU
13	1R	111	LEU
13	1R	114	VAL
14	1S	3	ARG
14	1S	11	LYS
14	1S	14	VAL
14	1S	36	TYR
14	1S	42	ASP
14	1S	49	VAL
14	1S	69	VAL
14	1S	110	LEU
15	1T	28	VAL
15	1T	89	VAL
15	1T	118	ARG
16	1U	5	LYS
16	1U	8	VAL
16	1U	50	ARG
16	1U	59	ARG
16	1U	74	LEU
16	1U	77	SER
16	1U	83	LEU
16	1U	95	LEU
17	1V	46	VAL
17	1V	52	VAL
17	1V	61	VAL
17	1V	62	LEU
17	1V	72	VAL
17	1V	79	VAL
17	1V	82	ARG
18	1W	17	VAL
18	1W	97	LYS
18	1W	107	LEU
19	1X	45	THR
19	1X	75	ASP
19	1X	81	VAL
19	1X	92	LEU
20	1Y	1	MET
20	1Y	11	ASP
20	1Y	55	TYR
20	1Y	72	VAL
20	1Y	99	CYS
21	1Z	18	LEU

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Mol	Chain	Res	Type
21	1Z	33	LEU
21	1Z	41	LEU
21	1Z	61	LEU
21	1Z	72	ARG
21	1Z	76	LEU
21	1Z	86	VAL
21	1Z	91	LEU
21	1Z	129	SER
21	1Z	150	LEU
21	1Z	170	THR
21	1Z	171	ILE
22	10	14	ARG
22	10	32	ARG
22	10	43	THR
23	11	30	VAL
23	11	56	GLN
23	11	95	LEU
24	12	30	ARG
24	12	40	SER
24	12	70	GLN
25	13	30	ARG
26	14	27	THR
26	14	49	PHE
26	14	52	THR
26	14	53	GLU
27	15	6	VAL
27	15	16	ARG
27	15	29	THR
27	15	33	CYS
27	15	57	VAL
27	15	58	LEU
28	16	5	VAL
28	16	19	ARG
28	16	48	VAL
28	16	51	GLU
29	17	1	MET
29	17	24	THR
29	17	41	ARG
29	17	43	THR
30	18	14	VAL
30	18	30	ARG
30	18	31	HIS

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Mol	Chain	Res	Type
30	18	32	LEU
30	18	34	TRP
33	1b	24	TRP
33	1b	37	ASN
33	1b	73	THR
33	1b	94	ASN
33	1b	127	ILE
33	1b	160	ASP
33	1b	172	ILE
33	1b	195	ASP
34	1c	3	ASN
34	1c	21	ARG
34	1c	49	SER
34	1c	112	SER
34	1c	192	THR
34	1c	196	LEU
35	1d	3	ARG
35	1d	5	ILE
35	1d	10	ARG
35	1d	31	CYS
35	1d	53	ASP
35	1d	59	ARG
35	1d	70	ILE
35	1d	73	ARG
35	1d	112	VAL
35	1d	135	LEU
36	1e	16	THR
36	1e	31	LEU
36	1e	34	VAL
36	1e	41	VAL
36	1e	45	PHE
36	1e	51	VAL
36	1e	56	GLN
36	1e	91	LEU
37	1f	72	VAL
37	1f	73	ASN
37	1f	93	SER
38	1g	12	LEU
38	1g	16	LEU
38	1g	24	THR
38	1g	90	GLU
38	1g	94	ARG

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Mol	Chain	Res	Type
39	1h	25	ASP
39	1h	29	SER
39	1h	49	GLU
39	1h	85	ARG
39	1h	112	LEU
39	1h	133	LEU
40	1i	17	VAL
40	1i	64	THR
40	1i	65	VAL
40	1i	87	GLN
41	1j	34	VAL
41	1j	84	GLN
42	1k	31	THR
42	1k	48	ILE
42	1k	109	VAL
42	1k	114	VAL
43	1l	27	LEU
43	1l	37	CYS
43	1l	52	LEU
43	1l	55	VAL
43	1l	58	VAL
43	1l	59	ARG
43	1l	83	VAL
43	1l	89	ARG
43	1l	113	ARG
43	1l	117	ARG
44	1m	4	ILE
44	1m	8	GLU
44	1m	11	ARG
44	1m	19	LEU
44	1m	109	THR
44	1m	121	LYS
45	1n	6	LEU
45	1n	13	THR
45	1n	18	VAL
45	1n	23	ARG
45	1n	32	SER
45	1n	35	ARG
46	1o	39	LEU
46	1o	87	ILE
47	1p	2	VAL
47	1p	20	VAL

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Mol	Chain	Res	Type
47	1p	67	THR
48	1q	15	MET
48	1q	35	VAL
48	1q	68	ARG
49	1r	26	LEU
49	1r	31	LEU
49	1r	46	GLU
49	1r	47	THR
50	1s	12	ASP
50	1s	28	LYS
51	1t	13	LEU
51	1t	24	LEU
51	1t	56	MET
3	2D	20	ASP
3	2D	94	LEU
3	2D	106	ILE
3	2D	113	VAL
3	2D	116	GLN
3	2D	142	VAL
3	2D	183	ARG
3	2D	204	ILE
3	2D	242	ARG
4	2E	9	VAL
4	2E	21	VAL
4	2E	23	VAL
4	2E	24	THR
4	2E	27	LEU
4	2E	52	LEU
4	2E	75	VAL
4	2E	78	LEU
4	2E	101	ARG
4	2E	113	PHE
4	2E	116	VAL
4	2E	119	ARG
4	2E	134	ILE
4	2E	181	LEU
4	2E	184	VAL
4	2E	195	LEU
5	2F	12	LEU
5	2F	20	LEU
5	2F	33	LEU
5	2F	53	THR

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Mol	Chain	Res	Type
5	2F	57	VAL
5	2F	74	ARG
5	2F	82	ILE
5	2F	88	VAL
5	2F	132	VAL
5	2F	149	ASP
5	2F	168	ARG
5	2F	170	LEU
5	2F	183	VAL
5	2F	192	LEU
5	2F	201	VAL
6	2G	5	VAL
6	2G	7	LEU
6	2G	31	VAL
6	2G	43	LEU
6	2G	133	LEU
6	2G	135	LEU
6	2G	140	ILE
6	2G	145	THR
6	2G	159	VAL
7	2H	49	VAL
7	2H	59	ARG
7	2H	103	LEU
7	2H	134	SER
7	2H	148	ILE
7	2H	152	ARG
8	2I	38	LEU
8	2I	47	LEU
8	2I	96	ASP
8	2I	108	THR
8	2I	116	LEU
8	2I	123	LEU
9	2N	23	LEU
9	2N	28	THR
9	2N	34	LEU
9	2N	43	THR
9	2N	46	VAL
9	2N	60	ILE
9	2N	73	THR
9	2N	87	LEU
9	2N	120	LEU
9	2N	140	VAL

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Mol	Chain	Res	Type
11	2P	45	LEU
11	2P	95	VAL
11	2P	99	LEU
11	2P	112	LEU
12	2Q	1	MET
12	2Q	2	LEU
12	2Q	16	ARG
12	2Q	21	THR
12	2Q	29	PHE
12	2Q	60	ARG
12	2Q	75	THR
12	2Q	101	ARG
12	2Q	110	THR
13	2R	15	SER
13	2R	18	LEU
13	2R	24	GLN
13	2R	29	LEU
13	2R	33	ARG
13	2R	44	LEU
13	2R	65	LEU
13	2R	100	LEU
13	2R	102	GLU
14	2S	21	THR
14	2S	36	TYR
14	2S	46	VAL
14	2S	58	LEU
14	2S	64	GLU
14	2S	83	LYS
14	2S	110	LEU
15	2T	6	LEU
15	2T	31	SER
15	2T	46	GLU
15	2T	64	ARG
15	2T	67	SER
15	2T	74	ARG
15	2T	96	ARG
15	2T	104	ASN
16	2U	74	LEU
16	2U	95	LEU
17	2V	14	VAL
17	2V	18	LEU
17	2V	38	LEU

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Mol	Chain	Res	Type
17	2V	51	VAL
17	2V	52	VAL
17	2V	61	VAL
17	2V	72	VAL
17	2V	79	VAL
17	2V	82	ARG
18	2W	11	ARG
18	2W	17	VAL
18	2W	19	LEU
18	2W	23	LEU
18	2W	67	ASP
18	2W	92	ARG
18	2W	96	ILE
19	2X	14	SER
19	2X	45	THR
19	2X	81	VAL
20	2Y	14	LEU
20	2Y	38	ILE
20	2Y	72	VAL
20	2Y	83	THR
20	2Y	84	ARG
20	2Y	99	CYS
21	2Z	27	VAL
21	2Z	33	LEU
21	2Z	38	TYR
21	2Z	40	ASP
21	2Z	86	VAL
21	2Z	129	SER
21	2Z	144	LEU
21	2Z	154	ASP
21	2Z	171	ILE
22	20	14	ARG
22	20	27	GLU
24	22	53	LEU
25	23	23	LEU
25	23	30	ARG
25	23	31	LEU
25	23	40	THR
25	23	53	LEU
26	24	24	THR
26	24	34	GLU
26	24	50	VAL

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Mol	Chain	Res	Type
26	24	63	TYR
27	25	6	VAL
27	25	16	ARG
27	25	21	SER
28	26	9	LEU
28	26	13	CYS
28	26	30	THR
28	26	32	ASN
28	26	51	GLU
29	27	39	ARG
29	27	41	ARG
30	28	14	VAL
30	28	23	VAL
30	28	31	HIS
30	28	32	LEU
30	28	34	TRP
31	29	7	VAL
33	2b	11	LEU
33	2b	24	TRP
33	2b	41	ILE
33	2b	48	MET
33	2b	93	VAL
33	2b	94	ASN
33	2b	102	LEU
33	2b	135	GLN
33	2b	144	ARG
33	2b	165	VAL
33	2b	178	ARG
33	2b	185	ILE
33	2b	189	ASP
34	2c	49	SER
34	2c	57	ILE
34	2c	77	ILE
34	2c	89	GLU
34	2c	128	PHE
34	2c	166	GLU
34	2c	175	LEU
35	2d	31	CYS
35	2d	76	ARG
35	2d	107	ARG
35	2d	108	LEU
35	2d	135	LEU

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Mol	Chain	Res	Type
35	2d	141	ARG
35	2d	150	GLU
35	2d	170	VAL
35	2d	175	SER
35	2d	178	VAL
35	2d	181	MET
36	2e	25	ARG
36	2e	34	VAL
36	2e	41	VAL
36	2e	73	ASN
36	2e	81	GLU
36	2e	83	GLU
37	2f	10	LEU
37	2f	28	ARG
37	2f	75	LEU
38	2g	9	VAL
38	2g	15	ASP
38	2g	16	LEU
38	2g	78	ARG
38	2g	79	ARG
38	2g	95	ARG
38	2g	98	SER
38	2g	104	LEU
38	2g	154	TYR
39	2h	2	LEU
39	2h	3	THR
39	2h	12	ARG
39	2h	25	ASP
39	2h	68	ARG
39	2h	87	SER
39	2h	112	LEU
40	2i	89	ASN
40	2i	102	LEU
40	2i	108	VAL
40	2i	111	ARG
41	2j	8	LEU
41	2j	17	ASP
41	2j	59	SER
41	2j	67	THR
41	2j	100	THR
42	2k	14	VAL
42	2k	24	SER

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Mol	Chain	Res	Type
42	2k	81	ASP
42	2k	84	VAL
42	2k	114	VAL
43	2l	12	ARG
43	2l	113	ARG
43	2l	117	ARG
44	2m	15	VAL
44	2m	103	THR
45	2n	6	LEU
45	2n	11	LYS
45	2n	25	VAL
45	2n	33	VAL
45	2n	44	LEU
46	2o	37	ASN
46	2o	51	HIS
46	2o	88	ARG
47	2p	2	VAL
47	2p	21	VAL
47	2p	60	LEU
48	2q	6	LEU
48	2q	35	VAL
48	2q	57	VAL
48	2q	79	SER
48	2q	97	SER
49	2r	37	VAL
49	2r	59	SER
50	2s	65	ASN
50	2s	71	LEU
50	2s	79	THR
51	2t	24	LEU
51	2t	70	SER
51	2t	72	LEU
51	2t	84	LEU
51	2t	89	ARG
52	2u	6	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (89) such sidechains are listed below:

Mol	Chain	Res	Type
4	1E	48	GLN
5	1F	8	GLN
5	1F	69	HIS

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Mol	Chain	Res	Type
5	1F	203	GLN
6	1G	79	ASN
8	1I	105	HIS
12	1Q	57	HIS
13	1R	24	GLN
13	1R	71	GLN
14	1S	68	GLN
15	1T	58	ASN
16	1U	104	GLN
19	1X	31	HIS
19	1X	82	GLN
20	1Y	6	HIS
20	1Y	43	ASN
21	1Z	54	HIS
23	11	56	GLN
30	18	35	GLN
33	1b	37	ASN
33	1b	40	HIS
34	1c	6	HIS
34	1c	104	GLN
34	1c	162	GLN
35	1d	77	ASN
35	1d	116	GLN
35	1d	119	GLN
35	1d	123	HIS
35	1d	161	ASN
36	1e	78	HIS
37	1f	73	ASN
37	1f	100	ASN
38	1g	28	ASN
40	1i	3	GLN
40	1i	23	ASN
40	1i	34	ASN
40	1i	58	HIS
40	1i	124	GLN
41	1j	56	HIS
43	1l	99	HIS
44	1m	62	ASN
45	1n	49	HIS
47	1p	13	HIS
50	1s	83	HIS
3	2D	87	ASN

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Mol	Chain	Res	Type
3	2D	112	GLN
3	2D	220	HIS
4	2E	48	GLN
4	2E	66	HIS
5	2F	69	HIS
5	2F	203	GLN
6	2G	66	GLN
7	2H	158	HIS
9	2N	38	HIS
10	2O	5	GLN
12	2Q	12	GLN
12	2Q	57	HIS
12	2Q	123	HIS
14	2S	38	GLN
15	2T	104	ASN
15	2T	123	GLN
19	2X	31	HIS
21	2Z	55	HIS
21	2Z	73	GLN
24	22	65	ASN
26	24	46	GLN
28	26	32	ASN
31	29	20	HIS
33	2b	94	ASN
33	2b	95	GLN
34	2c	6	HIS
34	2c	162	GLN
35	2d	42	GLN
35	2d	116	GLN
35	2d	125	HIS
37	2f	73	ASN
37	2f	100	ASN
38	2g	28	ASN
38	2g	68	ASN
38	2g	86	GLN
38	2g	97	GLN
39	2h	82	HIS
40	2i	3	GLN
40	2i	31	GLN
40	2i	58	HIS
46	2o	28	GLN
47	2p	16	HIS

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Mol	Chain	Res	Type
49	2r	63	GLN
51	2t	75	ASN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2860/2915 (98%)	472 (16%)	28 (0%)
1	2A	2788/2915 (95%)	502 (18%)	22 (0%)
2	1B	120/121 (99%)	12 (10%)	2 (1%)
2	2B	118/121 (97%)	32 (27%)	0
32	1a	1494/1521 (98%)	243 (16%)	0
32	2a	1498/1521 (98%)	270 (18%)	0
53	1v	12/24 (50%)	3 (25%)	0
53	2v	12/24 (50%)	2 (16%)	0
54	1w	71/76 (93%)	22 (30%)	0
54	1y	71/76 (93%)	21 (29%)	0
54	2w	68/76 (89%)	24 (35%)	0
54	2y	69/76 (90%)	26 (37%)	0
55	1x	75/77 (97%)	12 (16%)	0
55	2x	75/77 (97%)	9 (12%)	0
All	All	9331/9620 (96%)	1650 (17%)	52 (0%)

All (1650) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	12	U
1	1A	13	A
1	1A	34	C
1	1A	45	C
1	1A	57	G
1	1A	60	G
1	1A	62	U
1	1A	63	A
1	1A	70	A
1	1A	73	A
1	1A	74	G
1	1A	83	A
1	1A	91	G
1	1A	94	G
1	1A	112	U
1	1A	116	A

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Mol	Chain	Res	Type
1	1A	117	A
1	1A	118	U
1	1A	123	G
1	1A	129	G
1	1A	162	G
1	1A	164	G
1	1A	185	A
1	1A	188	A
1	1A	194	G
1	1A	203	G
1	1A	204	G
1	1A	205	A
1	1A	211	A
1	1A	212	A
1	1A	215	G
1	1A	217	A
1	1A	218	A
1	1A	222	A
1	1A	237	G
1	1A	262	C
1	1A	263	C
1	1A	272	U
1	1A	273	G
1	1A	275	C
1	1A	288	U
1	1A	289	G
1	1A	299	G
1	1A	303	C
1	1A	335	A
1	1A	353	G
1	1A	354	A
1	1A	376	G
1	1A	381	A
1	1A	384	G
1	1A	387	G
1	1A	388	A
1	1A	389	G
1	1A	393	A
1	1A	413	G
1	1A	432	U
1	1A	438	G
1	1A	439	A

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Mol	Chain	Res	Type
1	1A	448	U
1	1A	455	A
1	1A	470	C
1	1A	474	U
1	1A	483	A
1	1A	507	G
1	1A	529	U
1	1A	530	A
1	1A	534	C
1	1A	537	G
1	1A	555	G
1	1A	556	C
1	1A	557	A
1	1A	558	G
1	1A	569	G
1	1A	573	G
1	1A	586	G
1	1A	596	G
1	1A	598	A
1	1A	615	G
1	1A	626	A
1	1A	627	G
1	1A	630	U
1	1A	639	G
1	1A	641	G
1	1A	652	A
1	1A	662	A
1	1A	670	C
1	1A	671	A
1	1A	678	A
1	1A	693	G
1	1A	697	C
1	1A	703	G
1	1A	716	G
1	1A	724	A
1	1A	733	G
1	1A	777	C
1	1A	787	U
1	1A	804	U
1	1A	811	A
1	1A	812	G
1	1A	822	G

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Mol	Chain	Res	Type
1	1A	823	G
1	1A	829	A
1	1A	831	A
1	1A	832	G
1	1A	837	C
1	1A	839	G
1	1A	852	G
1	1A	859	C
1	1A	866	A
1	1A	874	U
1	1A	875	U
1	1A	879	G
1	1A	906	G
1	1A	913	A
1	1A	924	U
1	1A	926	G
1	1A	927	G
1	1A	928	G
1	1A	929	G
1	1A	931	C
1	1A	932	C
1	1A	933	C
1	1A	934	A
1	1A	935	C
1	1A	936	C
1	1A	937	A
1	1A	940	C
1	1A	941	U
1	1A	942	A
1	1A	943	C
1	1A	944	C
1	1A	945	A
1	1A	953	U
1	1A	956	A
1	1A	957	A
1	1A	965	G
1	1A	976	G
1	1A	977	G
1	1A	990	A
1	1A	991	G
1	1A	1003	U
1	1A	1004	A

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Mol	Chain	Res	Type
1	1A	1006	C
1	1A	1019	G
1	1A	1020	C
1	1A	1021	G
1	1A	1029	A
1	1A	1042	A
1	1A	1051	C
1	1A	1058	U
1	1A	1059	C
1	1A	1068	G
1	1A	1071	G
1	1A	1072	U
1	1A	1073	A
1	1A	1076	G
1	1A	1079	U
1	1A	1083	G
1	1A	1084	C
1	1A	1087	C
1	1A	1090	G
1	1A	1092	A
1	1A	1093	G
1	1A	1094	A
1	1A	1100	A
1	1A	1101	G
1	1A	1104	G
1	1A	1105	G
1	1A	1112	U
1	1A	1114	G
1	1A	1117	G
1	1A	1119	A
1	1A	1120	G
1	1A	1121	C
1	1A	1122	C
1	1A	1124	U
1	1A	1125	C
1	1A	1126	C
1	1A	1133	G
1	1A	1134	A
1	1A	1137	G
1	1A	1138	C
1	1A	1139	G
1	1A	1140	U

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Mol	Chain	Res	Type
1	1A	1142	A
1	1A	1146	C
1	1A	1149	A
1	1A	1156	G
1	1A	1157	A
1	1A	1158	G
1	1A	1162	C
1	1A	1164	C
1	1A	1175	A
1	1A	1176	U
1	1A	1180	C
1	1A	1181	G
1	1A	1187	U
1	1A	1216	G
1	1A	1217	G
1	1A	1218	G
1	1A	1219	A
1	1A	1220	U
1	1A	1221	G
1	1A	1222	A
1	1A	1256	U
1	1A	1263	C
1	1A	1287	A
1	1A	1299	A
1	1A	1302	G
1	1A	1317	G
1	1A	1318	A
1	1A	1319	U
1	1A	1335	C
1	1A	1346	U
1	1A	1347	A
1	1A	1349	G
1	1A	1375	U
1	1A	1388	A
1	1A	1398	U
1	1A	1405	A
1	1A	1406	A
1	1A	1411	A
1	1A	1426	G
1	1A	1430	A
1	1A	1431	G
1	1A	1441	A

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Mol	Chain	Res	Type
1	1A	1442	U
1	1A	1462	G
1	1A	1463	C
1	1A	1466	U
1	1A	1474	C
1	1A	1475	G
1	1A	1485	A
1	1A	1491	A
1	1A	1497	G
1	1A	1502	G
1	1A	1514	C
1	1A	1529	G
1	1A	1530	G
1	1A	1536	A
1	1A	1539	C
1	1A	1540	A
1	1A	1545	C
1	1A	1554	A
1	1A	1555	C
1	1A	1556	A
1	1A	1569	U
1	1A	1571	G
1	1A	1601	A
1	1A	1605	A
1	1A	1606	G
1	1A	1613	A
1	1A	1616	A
1	1A	1625	U
1	1A	1627	A
1	1A	1628	G
1	1A	1631	C
1	1A	1632	A
1	1A	1654	A
1	1A	1658	C
1	1A	1694	G
1	1A	1695	C
1	1A	1701	A
1	1A	1721	G
1	1A	1743	G
1	1A	1747	A
1	1A	1748	A
1	1A	1750	G

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Mol	Chain	Res	Type
1	1A	1767	A
1	1A	1776	G
1	1A	1787	G
1	1A	1793	A
1	1A	1794	G
1	1A	1795	G
1	1A	1800	G
1	1A	1804	A
1	1A	1811	A
1	1A	1813	C
1	1A	1822	A
1	1A	1831	C
1	1A	1843	A
1	1A	1847	G
1	1A	1859	G
1	1A	1860	A
1	1A	1871	G
1	1A	1878	A
1	1A	1879	A
1	1A	1892	G
1	1A	1899	A
1	1A	1911	A
1	1A	1915	C
1	1A	1922	A
1	1A	1928	G
1	1A	1941	A
1	1A	1949	A
1	1A	1951	G
1	1A	1952	G
1	1A	1953	U
1	1A	1956	C
1	1A	1959	A
1	1A	1960	A
1	1A	1977	U
1	1A	1985	U
1	1A	1989	C
1	1A	1992	A
1	1A	1993	A
1	1A	1994	A
1	1A	2006	G
1	1A	2014	G
1	1A	2015	U

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Mol	Chain	Res	Type
1	1A	2019	G
1	1A	2042	A
1	1A	2045	G
1	1A	2053	A
1	1A	2054	G
1	1A	2055	A
1	1A	2061	C
1	1A	2065	C
1	1A	2074	G
1	1A	2077	C
1	1A	2078	G
1	1A	2082	A
1	1A	2083	G
1	1A	2084	A
1	1A	2091	G
1	1A	2118	U
1	1A	2120	U
1	1A	2124	U
1	1A	2132	G
1	1A	2135	U
1	1A	2136	A
1	1A	2141	A
1	1A	2143	G
1	1A	2144	U
1	1A	2148	A
1	1A	2149	G
1	1A	2151	C
1	1A	2152	U
1	1A	2153	G
1	1A	2154	U
1	1A	2155	G
1	1A	2156	A
1	1A	2157	A
1	1A	2158	C
1	1A	2164	C
1	1A	2166	U
1	1A	2168	C
1	1A	2169	G
1	1A	2170	G
1	1A	2172	U
1	1A	2177	G
1	1A	2179	G

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Mol	Chain	Res	Type
1	1A	2180	A
1	1A	2181	G
1	1A	2188	G
1	1A	2189	U
1	1A	2190	G
1	1A	2192	A
1	1A	2194	U
1	1A	2195	A
1	1A	2196	C
1	1A	2200	C
1	1A	2203	G
1	1A	2206	G
1	1A	2207	C
1	1A	2211	U
1	1A	2214	G
1	1A	2220	A
1	1A	2227	G
1	1A	2228	G
1	1A	2229	A
1	1A	2230	U
1	1A	2237	A
1	1A	2250	G
1	1A	2251	G
1	1A	2280	A
1	1A	2281	A
1	1A	2285	A
1	1A	2292	G
1	1A	2295	C
1	1A	2299	A
1	1A	2306	C
1	1A	2317	A
1	1A	2320	G
1	1A	2332	A
1	1A	2337	G
1	1A	2346	G
1	1A	2348	A
1	1A	2359	C
1	1A	2362	C
1	1A	2366	G
1	1A	2373	A
1	1A	2384	G
1	1A	2395	G

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Mol	Chain	Res	Type
1	1A	2397	C
1	1A	2408	G
1	1A	2418	U
1	1A	2422	G
1	1A	2430	A
1	1A	2434	A
1	1A	2437	A
1	1A	2441	G
1	1A	2442	A
1	1A	2443	U
1	1A	2447	A
1	1A	2451	A
1	1A	2453	C
1	1A	2460	A
1	1A	2483	C
1	1A	2488	A
1	1A	2489	C
1	1A	2490	A
1	1A	2502	G
1	1A	2506	G
1	1A	2514	G
1	1A	2517	G
1	1A	2518	U
1	1A	2530	A
1	1A	2532	C
1	1A	2537	G
1	1A	2541	G
1	1A	2561	G
1	1A	2566	U
1	1A	2576	A
1	1A	2578	A
1	1A	2579	G
1	1A	2585	C
1	1A	2594	G
1	1A	2614	A
1	1A	2621	U
1	1A	2623	U
1	1A	2624	C
1	1A	2641	A
1	1A	2642	G
1	1A	2646	G
1	1A	2666	A

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Mol	Chain	Res	Type
1	1A	2681	G
1	1A	2682	A
1	1A	2701	U
1	1A	2702	C
1	1A	2703	C
1	1A	2714	U
1	1A	2715	C
1	1A	2725	A
1	1A	2726	A
1	1A	2727	G
1	1A	2739	U
1	1A	2745	G
1	1A	2746	A
1	1A	2757	G
1	1A	2763	A
1	1A	2765	C
1	1A	2770	A
1	1A	2771	A
1	1A	2774	G
1	1A	2777	A
1	1A	2778	A
1	1A	2779	G
1	1A	2782	C
1	1A	2791	A
1	1A	2793	G
1	1A	2803	A
1	1A	2804	C
1	1A	2807	C
1	1A	2813	G
1	1A	2830	A
1	1A	2831	A
1	1A	2845	A
1	1A	2882	G
1	1A	2890	C
1	1A	2901	A
1	1A	2903	G
2	1B	2	C
2	1B	9	G
2	1B	12	C
2	1B	15	A
2	1B	25	A
2	1B	35	U

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Mol	Chain	Res	Type
2	1B	56	G
2	1B	66	A
2	1B	67	G
2	1B	73	A
2	1B	106	G
2	1B	110	G
32	1a	7	G
32	1a	9	G
32	1a	32	A
32	1a	39	G
32	1a	47	C
32	1a	48	C
32	1a	51	A
32	1a	52	G
32	1a	54	C
32	1a	61	G
32	1a	79	G
32	1a	91	C
32	1a	96	U
32	1a	98	G
32	1a	101	A
32	1a	105	G
32	1a	116	A
32	1a	121	C
32	1a	131	C
32	1a	145	G
32	1a	162	A
32	1a	163	C
32	1a	174	C
32	1a	183	G
32	1a	189(F)	U
32	1a	189(H)	G
32	1a	195	A
32	1a	197	A
32	1a	199	G
32	1a	201	C
32	1a	202	U
32	1a	203	U
32	1a	204	U
32	1a	216	G
32	1a	247	G
32	1a	251	G

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Mol	Chain	Res	Type
32	1a	258	G
32	1a	266	G
32	1a	267	C
32	1a	289	G
32	1a	301	G
32	1a	318	G
32	1a	321	A
32	1a	328	C
32	1a	332	G
32	1a	342	C
32	1a	348	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
32	1a	373	A
32	1a	382	A
32	1a	384	G
32	1a	397	A
32	1a	398	C
32	1a	406	G
32	1a	412	A
32	1a	421	U
32	1a	423	G
32	1a	424	G
32	1a	429	U
32	1a	430	A
32	1a	439	A
32	1a	441	A
32	1a	442	C
32	1a	452	A
32	1a	453	A
32	1a	457	C
32	1a	458	C
32	1a	461	A
32	1a	470	C
32	1a	482	A
32	1a	483	C
32	1a	485	G
32	1a	496	A

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Mol	Chain	Res	Type
32	1a	498	U
32	1a	505	G
32	1a	509	A
32	1a	510	A
32	1a	511	C
32	1a	518	C
32	1a	524	G
32	1a	531	U
32	1a	532	A
32	1a	547	A
32	1a	559	A
32	1a	560	U
32	1a	561	U
32	1a	562	C
32	1a	568	G
32	1a	572	A
32	1a	573	A
32	1a	576	G
32	1a	596	C
32	1a	607	A
32	1a	619	U
32	1a	630	G
32	1a	631	G
32	1a	653	A
32	1a	665	A
32	1a	687	A
32	1a	688	G
32	1a	695	A
32	1a	717	C
32	1a	723	U
32	1a	731	G
32	1a	734	G
32	1a	747	C
32	1a	749	C
32	1a	752	G
32	1a	755	G
32	1a	777	A
32	1a	792	A
32	1a	793	U
32	1a	794	A
32	1a	815	A
32	1a	817	C

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Mol	Chain	Res	Type
32	1a	821	G
32	1a	828	A
32	1a	840	C
32	1a	841	U
32	1a	851	G
32	1a	859	A
32	1a	870	U
32	1a	885	G
32	1a	891	U
32	1a	902	G
32	1a	914	A
32	1a	916	G
32	1a	926	G
32	1a	927	G
32	1a	931	C
32	1a	934	C
32	1a	960	U
32	1a	961	U
32	1a	968	A
32	1a	969	A
32	1a	971	G
32	1a	972	C
32	1a	974	A
32	1a	975	A
32	1a	976	G
32	1a	977	A
32	1a	992	U
32	1a	993	G
32	1a	994	A
32	1a	997	U
32	1a	1000	U
32	1a	1001(A)	G
32	1a	1003	G
32	1a	1005	A
32	1a	1006	C
32	1a	1009	G
32	1a	1020	U
32	1a	1022	G
32	1a	1023	G
32	1a	1026	G
32	1a	1028	C
32	1a	1029	C

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Mol	Chain	Res	Type
32	1a	1030	C
32	1a	1030(A)	G
32	1a	1030(C)	G
32	1a	1030(D)	A
32	1a	1031	G
32	1a	1033	G
32	1a	1039	C
32	1a	1040	U
32	1a	1043	C
32	1a	1053	G
32	1a	1054	C
32	1a	1068	G
32	1a	1081	G
32	1a	1094	G
32	1a	1095	U
32	1a	1096	C
32	1a	1101	A
32	1a	1108	G
32	1a	1123	A
32	1a	1125	U
32	1a	1129	C
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	1159	U
32	1a	1184	G
32	1a	1196	U
32	1a	1197	G
32	1a	1201	A
32	1a	1202	G
32	1a	1212	U
32	1a	1213	A
32	1a	1227	A
32	1a	1236	A
32	1a	1238	A
32	1a	1256	A
32	1a	1257	U

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Mol	Chain	Res	Type
32	1a	1270	C
32	1a	1275	A
32	1a	1279	A
32	1a	1280	A
32	1a	1286	A
32	1a	1287	A
32	1a	1300	G
32	1a	1302	U
32	1a	1319	A
32	1a	1320	C
32	1a	1322	C
32	1a	1338	G
32	1a	1340	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1364	U
32	1a	1370	G
32	1a	1378	C
32	1a	1397	C
32	1a	1400	5MC
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	1494	G
32	1a	1497	G
32	1a	1503	A
32	1a	1504	G
32	1a	1505	G
32	1a	1506	U
32	1a	1517	G
32	1a	1529	G
32	1a	1530	G
32	1a	1532	U
53	1v	13	A
53	1v	14	A
53	1v	24	A

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Mol	Chain	Res	Type
54	1w	2	C
54	1w	3	C
54	1w	4	C
54	1w	6	G
54	1w	7	A
54	1w	8	4SU
54	1w	14	A
54	1w	19	G
54	1w	20	U
54	1w	21	A
54	1w	24	G
54	1w	45	U
54	1w	46	7MG
54	1w	47	U
54	1w	48	C
54	1w	62	C
54	1w	68	C
54	1w	70	G
54	1w	71	G
54	1w	72	C
54	1w	73	A
54	1w	74	C
55	1x	9	G
55	1x	13	C
55	1x	19	G
55	1x	21	A
55	1x	47	U
55	1x	48	C
55	1x	59	A
55	1x	61	C
55	1x	68	C
55	1x	69	C
55	1x	70	G
55	1x	76	A
54	1y	6	G
54	1y	8	4SU
54	1y	9	A
54	1y	11	C
54	1y	13	C
54	1y	19	G
54	1y	20	U
54	1y	21	A

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Mol	Chain	Res	Type
54	1y	35	A
54	1y	45	U
54	1y	46	7MG
54	1y	47	U
54	1y	48	C
54	1y	49	C
54	1y	54	5MU
54	1y	57	G
54	1y	59	U
54	1y	65	G
54	1y	69	G
54	1y	70	G
54	1y	73	A
1	2A	11	G
1	2A	12	U
1	2A	15	G
1	2A	29	U
1	2A	35	G
1	2A	45	C
1	2A	71	A
1	2A	74	A
1	2A	75	G
1	2A	84	A
1	2A	90	U
1	2A	96	G
1	2A	100	G
1	2A	102	G
1	2A	118	A
1	2A	119	A
1	2A	120	U
1	2A	125	G
1	2A	157	U
1	2A	173	G
1	2A	181	A
1	2A	196	A
1	2A	198	C
1	2A	205	G
1	2A	214	G
1	2A	215	G
1	2A	216	A
1	2A	221	A
1	2A	222	A

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Mol	Chain	Res	Type
1	2A	225	A
1	2A	228	A
1	2A	229	A
1	2A	230	U
1	2A	232	G
1	2A	243	U
1	2A	248	G
1	2A	249	C
1	2A	250	G
1	2A	266	G
1	2A	271(E)	U
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(O)	C
1	2A	272	G
1	2A	272(B)	G
1	2A	272(I)	U
1	2A	272(J)	C
1	2A	277	C
1	2A	278	A
1	2A	294	A
1	2A	311	A
1	2A	312	G
1	2A	320	A
1	2A	329	G
1	2A	330	A
1	2A	342	G
1	2A	352	G
1	2A	354	G
1	2A	361	G
1	2A	362	U
1	2A	363	G
1	2A	363(B)	G
1	2A	386	G
1	2A	391	G
1	2A	396	G
1	2A	399	G
1	2A	405	U
1	2A	411	G

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Mol	Chain	Res	Type
1	2A	422	A
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	474	G
1	2A	481	G
1	2A	498	G
1	2A	505	A
1	2A	508	G
1	2A	509	C
1	2A	528	A
1	2A	529	A
1	2A	530	G
1	2A	531	C
1	2A	532	A
1	2A	533	G
1	2A	545	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	652(B)	A
1	2A	652(U)	G
1	2A	669	G
1	2A	686	G
1	2A	701	G
1	2A	717	G
1	2A	726	G

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Mol	Chain	Res	Type
1	2A	730	C
1	2A	753	C
1	2A	771	G
1	2A	775	G
1	2A	776	G
1	2A	782	A
1	2A	783	A
1	2A	784	A
1	2A	785	G
1	2A	790	C
1	2A	792	G
1	2A	805	G
1	2A	812	C
1	2A	819	A
1	2A	827	U
1	2A	828	U
1	2A	857	C
1	2A	859	G
1	2A	866	A
1	2A	869	G
1	2A	870	A
1	2A	874	G
1	2A	877	U
1	2A	879	G
1	2A	880	G
1	2A	884	C
1	2A	886	C
1	2A	887	A
1	2A	888	C
1	2A	889	C
1	2A	890	A
1	2A	893	C
1	2A	894	C
1	2A	896	A
1	2A	900	A
1	2A	901	A
1	2A	904	C
1	2A	910	A
1	2A	917	A
1	2A	932	G
1	2A	933	A
1	2A	938	G

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Mol	Chain	Res	Type
1	2A	941	A
1	2A	945	A
1	2A	946	G
1	2A	953	A
1	2A	958	U
1	2A	959	A
1	2A	961	C
1	2A	974	G
1	2A	975	C
1	2A	980	A
1	2A	983	A
1	2A	996	A
1	2A	999	U
1	2A	1012	U
1	2A	1013	C
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	1041	C
1	2A	1043	C
1	2A	1114	G
1	2A	1116	C
1	2A	1122	G
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1137	G
1	2A	1139	G
1	2A	1142(A)	A
1	2A	1143	A
1	2A	1144	G
1	2A	1171	G
1	2A	1188	U
1	2A	1208	C
1	2A	1210	A
1	2A	1211	U
1	2A	1220	A
1	2A	1236	G

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Mol	Chain	Res	Type
1	2A	1244	G
1	2A	1247	A
1	2A	1248	G
1	2A	1250	G
1	2A	1253	A
1	2A	1256	G
1	2A	1271	G
1	2A	1272	A
1	2A	1273	U
1	2A	1284	A
1	2A	1300	U
1	2A	1301	A
1	2A	1303	G
1	2A	1314	C
1	2A	1345	C
1	2A	1347	G
1	2A	1352	U
1	2A	1359	A
1	2A	1360	A
1	2A	1365	A
1	2A	1370	C
1	2A	1379	A
1	2A	1384	A
1	2A	1385	G
1	2A	1386	C
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	1441	G
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	1478	G

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Mol	Chain	Res	Type
1	2A	1482	G
1	2A	1490	A
1	2A	1493	C
1	2A	1494	A
1	2A	1495	A
1	2A	1496	A
1	2A	1497	U
1	2A	1508	A
1	2A	1509	C
1	2A	1509(A)	A
1	2A	1511	C
1	2A	1531	C
1	2A	1533	G
1	2A	1542	A
1	2A	1547	C
1	2A	1558	A
1	2A	1559	G
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1580	A
1	2A	1584	C
1	2A	1586	A
1	2A	1588	C
1	2A	1603	A
1	2A	1608	A
1	2A	1609	A
1	2A	1610	A
1	2A	1616	A
1	2A	1640	C
1	2A	1647	G
1	2A	1648	C
1	2A	1654	A
1	2A	1663	C
1	2A	1664	A
1	2A	1674	G
1	2A	1676	A
1	2A	1680	U
1	2A	1691	C
1	2A	1694	C
1	2A	1696	G
1	2A	1700	A

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Mol	Chain	Res	Type
1	2A	1701	A
1	2A	1703	G
1	2A	1721	G
1	2A	1722	A
1	2A	1739	U
1	2A	1740	G
1	2A	1746	G
1	2A	1756	G
1	2A	1758	G
1	2A	1762	A
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1780	A
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1806	C
1	2A	1811	G
1	2A	1812	A
1	2A	1816	G
1	2A	1835	G
1	2A	1839	G
1	2A	1847	A
1	2A	1848	A
1	2A	1857	G
1	2A	1866	C
1	2A	1877	A
1	2A	1878	G
1	2A	1900	A
1	2A	1906	G
1	2A	1913	A
1	2A	1914	C
1	2A	1929	G
1	2A	1930	G
1	2A	1936	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

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Mol	Chain	Res	Type
1	2A	1993	U
1	2A	1996	C
1	2A	1997	G
1	2A	2020	A
1	2A	2023	G
1	2A	2031	A
1	2A	2033	A
1	2A	2043	C
1	2A	2051	A
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	2093	G
1	2A	2099	U
1	2A	2104	G
1	2A	2105	C
1	2A	2108	C
1	2A	2109	U
1	2A	2110	G
1	2A	2111	C
1	2A	2112	G
1	2A	2115	G
1	2A	2116	G
1	2A	2117	A
1	2A	2119	A
1	2A	2122	U
1	2A	2125	G
1	2A	2126	A
1	2A	2127	G
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	2136	C
1	2A	2137	C

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Mol	Chain	Res	Type
1	2A	2138	C
1	2A	2142	C
1	2A	2146	C
1	2A	2150	U
1	2A	2153	G
1	2A	2156	G
1	2A	2157	G
1	2A	2158	A
1	2A	2161	C
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2169	A
1	2A	2171	A
1	2A	2172	U
1	2A	2173	A
1	2A	2174	C
1	2A	2178	C
1	2A	2182	G
1	2A	2183	C
1	2A	2185	C
1	2A	2188	C
1	2A	2189	U
1	2A	2192	G
1	2A	2198	A
1	2A	2206	G
1	2A	2207	G
1	2A	2208	A
1	2A	2218	U
1	2A	2225	A
1	2A	2238	G
1	2A	2239	G
1	2A	2243	U
1	2A	2262	U
1	2A	2275	C
1	2A	2278	A
1	2A	2279	G
1	2A	2283	C
1	2A	2287	A
1	2A	2305	A
1	2A	2308	G
1	2A	2309	A

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Mol	Chain	Res	Type
1	2A	2320	A
1	2A	2322	A
1	2A	2325	G
1	2A	2327	A
1	2A	2334	G
1	2A	2336	A
1	2A	2346	A
1	2A	2347	C
1	2A	2350	C
1	2A	2354	G
1	2A	2376	A
1	2A	2377	A
1	2A	2383	G
1	2A	2385	C
1	2A	2396	G
1	2A	2403	C
1	2A	2406	U
1	2A	2410	G
1	2A	2419	U
1	2A	2425	A
1	2A	2428	G
1	2A	2429	G
1	2A	2430	A
1	2A	2434	A
1	2A	2435	A
1	2A	2439	A
1	2A	2440	C
1	2A	2441	C
1	2A	2445	G
1	2A	2448	A
1	2A	2469	A
1	2A	2476	A
1	2A	2487	G
1	2A	2490	G
1	2A	2497	A
1	2A	2502	G
1	2A	2504	U
1	2A	2505	G
1	2A	2506	U
1	2A	2507	C
1	2A	2518	A
1	2A	2520	C

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Mol	Chain	Res	Type
1	2A	2525	G
1	2A	2529	G
1	2A	2536	G
1	2A	2554	U
1	2A	2555	U
1	2A	2566	A
1	2A	2567	G
1	2A	2579	C
1	2A	2586	C
1	2A	2602	A
1	2A	2611	U
1	2A	2612	C
1	2A	2629	A
1	2A	2630	G
1	2A	2641	G
1	2A	2654	A
1	2A	2664	G
1	2A	2689	U
1	2A	2691	C
1	2A	2696	U
1	2A	2702	U
1	2A	2703	C
1	2A	2712(A)	A
1	2A	2713	A
1	2A	2714	G
1	2A	2726	U
1	2A	2733	A
1	2A	2744	G
1	2A	2748	A
1	2A	2751	G
1	2A	2757	A
1	2A	2758	A
1	2A	2761	G
1	2A	2764	A
1	2A	2765	A
1	2A	2766	G
1	2A	2778	A
1	2A	2780	G
1	2A	2789	C
1	2A	2802	G
1	2A	2818	G
1	2A	2820	A

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Mol	Chain	Res	Type
1	2A	2821	A
1	2A	2833	G
1	2A	2835	A
1	2A	2836	U
1	2A	2872	G
1	2A	2873	A
1	2A	2880	C
1	2A	2892	A
1	2A	2894	G
1	2A	2895	U
1	2A	2897	U
2	2B	2	C
2	2B	5	C
2	2B	8	U
2	2B	9	G
2	2B	12	C
2	2B	13	A
2	2B	15	A
2	2B	19	G
2	2B	25	A
2	2B	32	C
2	2B	42	C
2	2B	52	A
2	2B	53	A
2	2B	56	G
2	2B	57	A
2	2B	63	G
2	2B	64	C
2	2B	65	C
2	2B	66	A
2	2B	67	G
2	2B	73	A
2	2B	74	U
2	2B	75	G
2	2B	84	C
2	2B	88	C
2	2B	91	C
2	2B	108	U
2	2B	110	G
2	2B	111	G
2	2B	114	C
2	2B	116	G

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Mol	Chain	Res	Type
2	2B	119	G
32	2a	6	G
32	2a	7	G
32	2a	9	G
32	2a	22	G
32	2a	30	U
32	2a	32	A
32	2a	33	A
32	2a	39	G
32	2a	47	C
32	2a	48	C
32	2a	51	A
32	2a	54	C
32	2a	66	G
32	2a	73	G
32	2a	80	G
32	2a	88	A
32	2a	92	C
32	2a	97	G
32	2a	98	G
32	2a	101	A
32	2a	116	A
32	2a	120	A
32	2a	121	C
32	2a	131	C
32	2a	163	C
32	2a	174	C
32	2a	180	U
32	2a	182	U
32	2a	189(B)	C
32	2a	189(F)	U
32	2a	195	A
32	2a	197	A
32	2a	201	C
32	2a	202	U
32	2a	203	U
32	2a	204	U
32	2a	216	G
32	2a	247	G
32	2a	251	G
32	2a	258	G
32	2a	266	G

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Mol	Chain	Res	Type
32	2a	267	C
32	2a	289	G
32	2a	301	G
32	2a	316	G
32	2a	321	A
32	2a	328	C
32	2a	332	G
32	2a	345	C
32	2a	346	G
32	2a	352	C
32	2a	353	A
32	2a	354	G
32	2a	355	C
32	2a	363	A
32	2a	367	U
32	2a	372	C
32	2a	373	A
32	2a	381	C
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	423	G
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	470	C
32	2a	485	G
32	2a	496	A
32	2a	498	U
32	2a	505	G
32	2a	509	A
32	2a	510	A
32	2a	511	C
32	2a	517	G
32	2a	518	C
32	2a	527	7MG

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Mol	Chain	Res	Type
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	547	A
32	2a	559	A
32	2a	560	U
32	2a	561	U
32	2a	564	C
32	2a	568	G
32	2a	572	A
32	2a	573	A
32	2a	574	A
32	2a	576	G
32	2a	577	G
32	2a	619	U
32	2a	630	G
32	2a	653	A
32	2a	661	G
32	2a	665	A
32	2a	673	G
32	2a	687	A
32	2a	688	G
32	2a	701	C
32	2a	702	A
32	2a	721	G
32	2a	723	U
32	2a	724	G
32	2a	731	G
32	2a	735	C
32	2a	738	C
32	2a	749	C
32	2a	755	G
32	2a	773	G
32	2a	777	A
32	2a	792	A
32	2a	793	U
32	2a	794	A
32	2a	817	C
32	2a	821	G
32	2a	828	A
32	2a	834	C
32	2a	840	C

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Mol	Chain	Res	Type
32	2a	841	U
32	2a	848	C
32	2a	853	G
32	2a	858	G
32	2a	859	A
32	2a	870	U
32	2a	902	G
32	2a	914	A
32	2a	916	G
32	2a	926	G
32	2a	927	G
32	2a	934	C
32	2a	935	A
32	2a	942	G
32	2a	960	U
32	2a	961	U
32	2a	968	A
32	2a	969	A
32	2a	971	G
32	2a	972	C
32	2a	974	A
32	2a	975	A
32	2a	976	G
32	2a	977	A
32	2a	982	U
32	2a	989	C
32	2a	992	U
32	2a	993	G
32	2a	995	C
32	2a	997	U
32	2a	999	C
32	2a	1002	G
32	2a	1003	G
32	2a	1004	A
32	2a	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1011	G
32	2a	1020	U
32	2a	1021	G
32	2a	1022	G
32	2a	1023	G

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Mol	Chain	Res	Type
32	2a	1025	U
32	2a	1026	G
32	2a	1027	C
32	2a	1029	C
32	2a	1030(A)	G
32	2a	1031	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	1043	C
32	2a	1045	C
32	2a	1046	A
32	2a	1054	C
32	2a	1065	U
32	2a	1066	C
32	2a	1068	G
32	2a	1077	G
32	2a	1079	G
32	2a	1081	G
32	2a	1087	G
32	2a	1094	G
32	2a	1095	U
32	2a	1101	A
32	2a	1109	C
32	2a	1117	G
32	2a	1121	U
32	2a	1122	U
32	2a	1125	U
32	2a	1129	C
32	2a	1130	A
32	2a	1134	G
32	2a	1136	U
32	2a	1137	C
32	2a	1138	G
32	2a	1139	G
32	2a	1146	A
32	2a	1152	A
32	2a	1157	A

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Mol	Chain	Res	Type
32	2a	1158	C
32	2a	1159	U
32	2a	1161	C
32	2a	1174	G
32	2a	1182	G
32	2a	1184	G
32	2a	1196	U
32	2a	1197	G
32	2a	1202	G
32	2a	1211	U
32	2a	1212	U
32	2a	1213	A
32	2a	1227	A
32	2a	1238	A
32	2a	1240	U
32	2a	1241	G
32	2a	1256	A
32	2a	1257	U
32	2a	1260	C
32	2a	1264	C
32	2a	1270	C
32	2a	1274	G
32	2a	1275	A
32	2a	1276	G
32	2a	1278	U
32	2a	1279	A
32	2a	1280	A
32	2a	1286	A
32	2a	1287	A
32	2a	1299	A
32	2a	1300	G
32	2a	1303	C
32	2a	1305	G
32	2a	1313	U
32	2a	1320	C
32	2a	1322	C
32	2a	1323	G
32	2a	1338	G
32	2a	1346	A
32	2a	1347	G
32	2a	1363	C
32	2a	1368	G

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Mol	Chain	Res	Type
32	2a	1370	G
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	1499	A
32	2a	1503	A
32	2a	1504	G
32	2a	1506	U
32	2a	1517	G
32	2a	1520	G
32	2a	1529	G
32	2a	1530	G
32	2a	1532	U
53	2v	13	A
53	2v	14	A
54	2w	3	C
54	2w	4	C
54	2w	8	4SU
54	2w	9	A
54	2w	13	C
54	2w	14	A
54	2w	19	G
54	2w	22	G
54	2w	29	G
54	2w	32	PSU
54	2w	34	G
54	2w	46	7MG
54	2w	48	C
54	2w	50	U
54	2w	61	C
54	2w	64	A
54	2w	65	G
54	2w	66	U
54	2w	68	C
54	2w	69	G
54	2w	70	G

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Mol	Chain	Res	Type
54	2w	71	G
54	2w	74	C
54	2w	76	A
55	2x	9	G
55	2x	19	G
55	2x	20	U
55	2x	21	A
55	2x	47	U
55	2x	48	C
55	2x	62	C
55	2x	67	C
55	2x	76	A
54	2y	2	C
54	2y	14	A
54	2y	15	G
54	2y	19	G
54	2y	30	G
54	2y	34	G
54	2y	40	C
54	2y	45	U
54	2y	46	7MG
54	2y	49	C
54	2y	52	G
54	2y	53	G
54	2y	55	PSU
54	2y	56	C
54	2y	57	G
54	2y	58	A
54	2y	59	U
54	2y	60	U
54	2y	61	C
54	2y	62	C
54	2y	63	G
54	2y	65	G
54	2y	66	U
54	2y	69	G
54	2y	70	G
54	2y	73	A

All (52) RNA pucker outliers are listed below:

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Mol	Chain	Res	Type

Mol	Chain	Res	Type
1	1A	115	G
1	1A	185	A
1	1A	271	U
1	1A	302	A
1	1A	509	A
1	1A	716	G
1	1A	811	A
1	1A	913	A
1	1A	941	U
1	1A	1067	A
1	1A	1093	G
1	1A	1201	A
1	1A	1219	A
1	1A	1220	U
1	1A	1221	G
1	1A	1255	A
1	1A	1286	U
1	1A	1554	A
1	1A	1700	G
1	1A	2014	G
1	1A	2156	A
1	1A	2205	C
1	1A	2418	U
1	1A	2442	A
1	1A	2451	A
1	1A	2641	A
1	1A	2701	U
1	1A	2769	U
2	1B	1	U
2	1B	65	C
1	2A	34	C
1	2A	195	A
1	2A	228	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	774	A
1	2A	856	C

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Mol	Chain	Res	Type
1	2A	900	A
1	2A	1026	U
1	2A	1210	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	2126	A
1	2A	2756	U

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
54	PSU	2w	39	54	18,21,22	1.33	2 (11%)	22,30,33	1.67	2 (9%)
32	4OC	1a	1402	32	20,23,24	0.75	0	26,32,35	0.97	1 (3%)
1	5MC	2A	1942	1	18,22,23	0.96	2 (11%)	26,32,35	1.14	2 (7%)
32	UR3	2a	1498	32	19,22,23	0.99	1 (5%)	26,32,35	1.46	2 (7%)
55	5MC	2x	32	55	18,22,23	1.00	2 (11%)	26,32,35	1.26	3 (11%)
1	5MU	2A	1915	1	19,22,23	1.43	5 (26%)	28,32,35	2.11	6 (21%)
1	2MU	1A	2564	56,1	19,22,24	1.33	3 (15%)	26,31,36	1.83	5 (19%)
55	PSU	2x	55	55	18,21,22	1.32	2 (11%)	22,30,33	1.87	4 (18%)
32	MA6	1a	1518	32	19,26,27	0.90	1 (5%)	18,38,41	1.72	5 (27%)
1	2MA	1A	2515	56,1	17,25,26	1.03	1 (5%)	17,37,40	0.93	1 (5%)
1	5MC	1A	1984	56,1	18,22,23	0.99	2 (11%)	26,32,35	1.26	4 (15%)
55	4SU	1x	8	55	18,21,22	2.11	4 (22%)	26,30,33	1.66	6 (23%)
54	7MG	2w	46	54	22,26,27	1.37	4 (18%)	29,39,42	2.42	7 (24%)
54	PSU	1y	39	54	18,21,22	1.35	2 (11%)	22,30,33	1.72	3 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
54	4SU	2y	8	54	18,21,22	1.63	4 (22%)	26,30,33	2.33	6 (23%)
54	7MG	2y	46	54	22,26,27	1.37	4 (18%)	29,39,42	2.51	6 (20%)
54	5MU	1w	54	54	19,22,23	1.41	5 (26%)	28,32,35	2.12	7 (25%)
54	PSU	2w	55	54	18,21,22	1.34	2 (11%)	22,30,33	1.87	3 (13%)
54	PSU	2y	39	54	18,21,22	1.37	2 (11%)	22,30,33	1.81	4 (18%)
43	0TD	2l	92	43	7,9,10	4.73	1 (14%)	6,11,13	2.54	3 (50%)
32	2MG	1a	1207	32	18,26,27	0.97	1 (5%)	16,38,41	1.09	1 (6%)
54	PSU	1w	55	54	18,21,22	1.34	2 (11%)	22,30,33	1.88	3 (13%)
32	M2G	2a	966	32	20,27,28	1.38	2 (10%)	22,40,43	1.03	2 (9%)
32	5MC	1a	1400	32	18,22,23	0.97	2 (11%)	26,32,35	1.17	3 (11%)
32	5MC	2a	1404	32	18,22,23	0.97	2 (11%)	26,32,35	1.17	2 (7%)
54	PSU	2y	32	54	18,21,22	1.30	2 (11%)	22,30,33	1.80	3 (13%)
1	PSU	2A	1917	1	18,21,22	1.36	2 (11%)	22,30,33	1.90	3 (13%)
32	4OC	2a	1402	56,32	20,23,24	0.75	0	26,32,35	1.01	1 (3%)
1	PSU	1A	2617	56,1	18,21,22	1.34	3 (16%)	22,30,33	1.88	5 (22%)
54	MIA	1w	37	54	24,31,32	2.24	4 (16%)	26,44,47	2.48	9 (34%)
54	7MG	1y	46	54	22,26,27	1.33	3 (13%)	29,39,42	2.62	7 (24%)
55	PSU	1x	55	55	18,21,22	1.32	2 (11%)	22,30,33	1.93	3 (13%)
1	OMG	1A	2263	56,1,55	18,26,27	1.00	1 (5%)	19,38,41	1.06	2 (10%)
32	UR3	1a	1498	32	19,22,23	1.06	1 (5%)	26,32,35	1.42	1 (3%)
1	PSU	1A	1933	1	18,21,22	1.41	2 (11%)	22,30,33	1.97	3 (13%)
1	5MU	2A	1939	56,1	19,22,23	1.46	6 (31%)	28,32,35	2.23	6 (21%)
54	PSU	2y	55	54	18,21,22	1.39	3 (16%)	22,30,33	1.80	4 (18%)
32	PSU	2a	516	32	18,21,22	1.30	2 (11%)	22,30,33	1.82	4 (18%)
54	4SU	1y	8	54	18,21,22	1.65	4 (22%)	26,30,33	1.94	5 (19%)
54	PSU	1w	32	54	18,21,22	1.34	2 (11%)	22,30,33	1.84	3 (13%)
32	5MC	1a	967	32	18,22,23	0.95	2 (11%)	26,32,35	1.22	3 (11%)
32	MA6	1a	1519	32	19,26,27	0.99	1 (5%)	18,38,41	1.52	4 (22%)
1	4OC	2A	1920	1	19,22,24	0.79	0	26,31,35	0.81	0
54	4SU	2w	8	54	18,21,22	1.69	4 (22%)	26,30,33	2.32	5 (19%)
54	5MU	2w	54	54	19,22,23	1.30	3 (15%)	28,32,35	1.94	7 (25%)
54	MIA	2w	37	54	20,27,32	1.71	3 (15%)	22,39,47	1.84	6 (27%)
1	2MA	2A	2503	56,1	17,25,26	1.02	2 (11%)	17,37,40	0.94	2 (11%)
43	0TD	1l	92	43	7,9,10	4.85	1 (14%)	6,11,13	3.35	2 (33%)
32	5MC	2a	967	32	18,22,23	0.99	2 (11%)	26,32,35	1.07	2 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
54	PSU	1w	39	54	18,21,22	1.34	2 (11%)	22,30,33	1.91	4 (18%)
54	MIA	2y	37	54	18,24,32	1.11	2 (11%)	18,35,47	1.36	3 (16%)
32	7MG	2a	527	56,32	22,26,27	1.30	3 (13%)	29,39,42	2.56	7 (24%)
54	4SU	1w	8	54	18,21,22	1.76	5 (27%)	26,30,33	2.11	4 (15%)
1	PSU	2A	2605	1	18,21,22	1.32	2 (11%)	22,30,33	2.00	4 (18%)
32	5MC	2a	1400	32	18,22,23	0.97	2 (11%)	26,32,35	1.22	3 (11%)
55	5MU	2x	54	55	19,22,23	1.33	5 (26%)	28,32,35	2.25	6 (21%)
1	5MU	1A	1937	1	19,22,23	1.43	5 (26%)	28,32,35	2.21	7 (25%)
1	5MC	2A	1962	56,1	18,22,23	0.91	2 (11%)	26,32,35	1.14	2 (7%)
32	5MC	2a	1407	32	18,22,23	0.97	2 (11%)	26,32,35	1.21	3 (11%)
1	OMG	2A	2251	56,1,55	18,26,27	1.01	1 (5%)	19,38,41	1.11	2 (10%)
54	5MU	2y	54	54	19,22,23	1.47	5 (26%)	28,32,35	2.20	9 (32%)
32	2MG	2a	1207	32	18,26,27	0.91	1 (5%)	16,38,41	1.11	3 (18%)
32	7MG	1a	527	32	22,26,27	1.46	5 (22%)	29,39,42	2.39	5 (17%)
54	MIA	1y	37	54	18,24,32	1.15	2 (11%)	18,35,47	1.27	2 (11%)
1	PSU	2A	1911	1	18,21,22	1.33	2 (11%)	22,30,33	1.76	3 (13%)
32	5MC	1a	1407	32	18,22,23	0.93	2 (11%)	26,32,35	1.10	2 (7%)
32	PSU	1a	516	56,32	18,21,22	1.35	3 (16%)	22,30,33	1.79	4 (18%)
32	5MC	1a	1404	32	18,22,23	1.01	2 (11%)	26,32,35	1.13	3 (11%)
55	5MC	1x	32	55	18,22,23	1.03	2 (11%)	26,32,35	1.21	3 (11%)
55	4SU	2x	8	56,55	18,21,22	1.98	6 (33%)	26,30,33	1.49	5 (19%)
1	2MU	2A	2552	56,1	19,22,24	1.26	2 (10%)	26,31,36	1.78	5 (19%)
1	4OC	1A	1942	1	19,22,24	0.83	0	26,31,35	0.84	0
1	5MC	1A	1964	1	18,22,23	0.98	2 (11%)	26,32,35	1.26	3 (11%)
32	M2G	1a	966	32	20,27,28	1.57	3 (15%)	22,40,43	1.13	3 (13%)
54	PSU	1y	55	54	18,21,22	1.31	2 (11%)	22,30,33	2.00	4 (18%)
1	5MU	1A	1961	56,1	19,22,23	1.32	4 (21%)	28,32,35	2.36	6 (21%)
54	7MG	1w	46	54	22,26,27	1.36	3 (13%)	29,39,42	2.54	7 (24%)
32	MA6	2a	1518	32	19,26,27	0.99	1 (5%)	18,38,41	1.62	3 (16%)
1	PSU	1A	1939	1	18,21,22	1.35	2 (11%)	22,30,33	1.73	3 (13%)
32	MA6	2a	1519	32	19,26,27	1.01	1 (5%)	18,38,41	1.67	4 (22%)
54	PSU	1y	32	54	18,21,22	1.32	2 (11%)	22,30,33	1.73	3 (13%)
54	5MU	1y	54	54	19,22,23	1.48	6 (31%)	28,32,35	2.00	5 (17%)
55	5MU	1x	54	56,55	19,22,23	1.41	5 (26%)	28,32,35	1.98	6 (21%)
54	PSU	2w	32	54	18,21,22	1.33	3 (16%)	22,30,33	1.79	4 (18%)

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
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
32	4OC	1a	1402	32	-	2/9/29/30	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	2/7/25/26	0/2/2/2
1	2MU	1A	2564	56,1	-	0/9/27/28	0/2/2/2
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
32	MA6	1a	1518	32	-	3/7/29/30	0/3/3/3
1	2MA	1A	2515	56,1	-	2/3/25/26	0/3/3/3
1	5MC	1A	1984	56,1	-	2/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
54	7MG	2w	46	54	-	3/7/37/38	0/3/3/3
54	PSU	1y	39	54	-	0/7/25/26	0/2/2/2
54	4SU	2y	8	54	-	0/7/25/26	0/2/2/2
54	7MG	2y	46	54	-	1/7/37/38	0/3/3/3
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
54	PSU	2y	39	54	-	0/7/25/26	0/2/2/2
43	0TD	2l	92	43	-	1/7/12/14	-
32	2MG	1a	1207	32	-	0/5/27/28	0/3/3/3
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/7/29/30	0/3/3/3
32	5MC	1a	1400	32	-	2/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
54	PSU	2y	32	54	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	0/7/25/26	0/2/2/2
32	4OC	2a	1402	56,32	-	2/9/29/30	0/2/2/2
1	PSU	1A	2617	56,1	-	0/7/25/26	0/2/2/2
54	MIA	1w	37	54	-	1/11/33/34	0/3/3/3
54	7MG	1y	46	54	-	3/7/37/38	0/3/3/3
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
1	OMG	1A	2263	56,1,55	-	0/5/27/28	0/3/3/3
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
1	PSU	1A	1933	1	-	0/7/25/26	0/2/2/2
1	5MU	2A	1939	56,1	-	0/7/25/26	0/2/2/2
54	PSU	2y	55	54	-	1/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	PSU	2a	516	32	-	1/7/25/26	0/2/2/2
54	4SU	1y	8	54	-	4/7/25/26	0/2/2/2
54	PSU	1w	32	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	2/7/25/26	0/2/2/2
32	MA6	1a	1519	32	-	3/7/29/30	0/3/3/3
1	4OC	2A	1920	1	-	1/9/27/30	0/2/2/2
54	4SU	2w	8	54	-	2/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
54	MIA	2w	37	54	-	3/7/29/34	0/3/3/3
1	2MA	2A	2503	56,1	-	1/3/25/26	0/3/3/3
43	0TD	1l	92	43	-	2/7/12/14	-
32	5MC	2a	967	32	-	1/7/25/26	0/2/2/2
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
54	MIA	2y	37	54	-	3/3/25/34	0/3/3/3
32	7MG	2a	527	56,32	-	3/7/37/38	0/3/3/3
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	5MC	2a	1400	32	-	0/7/25/26	0/2/2/2
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
1	5MU	1A	1937	1	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	56,1	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	32	-	0/7/25/26	0/2/2/2
1	OMG	2A	2251	56,1,55	-	0/5/27/28	0/3/3/3
54	5MU	2y	54	54	-	4/7/25/26	0/2/2/2
32	2MG	2a	1207	32	-	0/5/27/28	0/3/3/3
32	7MG	1a	527	32	-	3/7/37/38	0/3/3/3
54	MIA	1y	37	54	-	0/3/25/34	0/3/3/3
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	56,32	-	0/7/25/26	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
55	4SU	2x	8	56,55	-	1/7/25/26	0/2/2/2
1	2MU	2A	2552	56,1	-	1/9/27/28	0/2/2/2
1	4OC	1A	1942	1	-	0/9/27/30	0/2/2/2
1	5MC	1A	1964	1	-	0/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	0/7/29/30	0/3/3/3
54	PSU	1y	55	54	-	2/7/25/26	0/2/2/2
1	5MU	1A	1961	56,1	-	0/7/25/26	0/2/2/2
54	7MG	1w	46	54	-	1/7/37/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	MA6	2a	1518	32	-	3/7/29/30	0/3/3/3
1	PSU	1A	1939	1	-	0/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	4/7/29/30	0/3/3/3
54	PSU	1y	32	54	-	0/7/25/26	0/2/2/2
54	5MU	1y	54	54	-	2/7/25/26	0/2/2/2
55	5MU	1x	54	56,55	-	0/7/25/26	0/2/2/2
54	PSU	2w	32	54	-	1/7/25/26	0/2/2/2

All (210) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	1l	92	0TD	CB-SB	-12.42	1.69	1.82
43	2l	92	0TD	CB-SB	-12.25	1.69	1.82
54	1w	37	MIA	C13-C14	7.37	1.53	1.32
54	1w	37	MIA	C2-S10	-6.46	1.70	1.75
54	2w	37	MIA	C2-S10	-6.14	1.70	1.75
32	1a	966	M2G	C2-N3	5.00	1.36	1.30
55	1x	8	4SU	C4-N3	-4.99	1.32	1.37
55	2x	8	4SU	C4-N3	-4.68	1.32	1.37
54	1w	8	4SU	C4-S4	-4.68	1.59	1.68
32	2a	966	M2G	C2-N3	4.47	1.36	1.30
54	2y	8	4SU	C4-S4	-4.34	1.60	1.68
54	2w	8	4SU	C4-S4	-4.32	1.60	1.68
55	1x	8	4SU	C4-S4	-4.18	1.60	1.68
55	2x	8	4SU	C4-S4	-4.09	1.60	1.68
54	1y	8	4SU	C4-S4	-4.06	1.60	1.68
55	1x	8	4SU	C2-N3	-4.02	1.30	1.38
54	1w	55	PSU	C6-C5	3.78	1.39	1.35
54	1y	39	PSU	C6-C5	3.61	1.39	1.35
54	1y	32	PSU	C6-C5	3.56	1.39	1.35
55	2x	55	PSU	C6-C5	3.55	1.39	1.35
54	2y	32	PSU	C6-C5	3.53	1.39	1.35
54	2w	55	PSU	C6-C5	3.47	1.39	1.35
1	2A	1911	PSU	C6-C5	3.46	1.39	1.35
54	2w	46	7MG	C4-N9	-3.45	1.33	1.37
54	2y	39	PSU	C6-C5	3.45	1.39	1.35
32	2a	516	PSU	C6-C5	3.43	1.39	1.35
54	1y	55	PSU	C6-C5	3.42	1.39	1.35
32	1a	527	7MG	C4-N9	-3.41	1.33	1.37
55	1x	55	PSU	C6-C5	3.40	1.39	1.35
1	2A	1917	PSU	C6-C5	3.40	1.39	1.35
54	2w	39	PSU	C6-C5	3.40	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	46	7MG	C4-N9	-3.37	1.33	1.37
1	1A	1933	PSU	C6-C5	3.37	1.39	1.35
1	1A	1939	PSU	C6-C5	3.37	1.39	1.35
54	2y	55	PSU	C6-C5	3.31	1.39	1.35
54	1y	46	7MG	C5-C4	3.28	1.48	1.38
32	1a	516	PSU	C6-C5	3.25	1.39	1.35
54	2w	32	PSU	C6-C5	3.23	1.39	1.35
1	2A	2605	PSU	C6-C5	3.22	1.39	1.35
54	1w	39	PSU	C6-C5	3.20	1.39	1.35
55	1x	8	4SU	C5-C4	-3.20	1.38	1.42
54	1w	8	4SU	C4-N3	-3.18	1.34	1.37
1	1A	2564	2MU	C4-N3	-3.18	1.32	1.38
32	1a	527	7MG	C5-C4	3.17	1.48	1.38
54	2y	46	7MG	C5-C4	3.16	1.48	1.38
54	1w	32	PSU	C6-C5	3.15	1.39	1.35
54	2y	54	5MU	C2-N1	3.12	1.43	1.38
32	2a	527	7MG	C4-N9	-3.07	1.34	1.37
54	1w	46	7MG	C5-C4	3.05	1.48	1.38
55	1x	32	5MC	C6-C5	3.03	1.39	1.34
54	2w	46	7MG	C5-C4	3.00	1.47	1.38
32	1a	966	M2G	C2-N2	3.00	1.40	1.35
1	1A	2263	OMG	C6-N1	-3.00	1.33	1.37
54	1y	8	4SU	C4-N3	-2.98	1.34	1.37
1	2A	1939	5MU	C6-C5	2.94	1.39	1.34
55	2x	32	5MC	C6-C5	2.93	1.39	1.34
32	2a	1404	5MC	C6-C5	2.92	1.39	1.34
32	1a	1404	5MC	C6-C5	2.90	1.39	1.34
32	1a	966	M2G	C6-N1	-2.88	1.33	1.37
32	2a	527	7MG	C5-C4	2.88	1.47	1.38
32	1a	1400	5MC	C6-C5	2.88	1.39	1.34
55	2x	8	4SU	C5-C4	-2.87	1.38	1.42
1	1A	2617	PSU	C4-N3	-2.87	1.33	1.38
54	2w	8	4SU	C4-N3	-2.85	1.34	1.37
32	2a	1407	5MC	C6-C5	2.83	1.39	1.34
1	1A	1937	5MU	C2-N1	2.82	1.43	1.38
1	1A	1937	5MU	C6-C5	2.82	1.39	1.34
54	2w	8	4SU	C2-N1	2.80	1.42	1.38
32	2a	967	5MC	C6-C5	2.80	1.39	1.34
32	2a	1400	5MC	C6-C5	2.80	1.39	1.34
1	2A	1915	5MU	C6-C5	2.77	1.39	1.34
32	1a	1407	5MC	C6-C5	2.75	1.39	1.34
54	1y	54	5MU	C6-C5	2.75	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2y	37	MIA	C5-C4	2.75	1.48	1.40
1	1A	1984	5MC	C6-C5	2.73	1.39	1.34
54	1y	37	MIA	C5-C4	2.73	1.48	1.40
54	2y	54	5MU	C6-C5	2.73	1.39	1.34
55	2x	8	4SU	C2-N3	-2.72	1.33	1.38
1	1A	1964	5MC	C6-C5	2.71	1.39	1.34
54	2y	54	5MU	C4-C5	2.71	1.49	1.44
54	1y	54	5MU	C4-N3	-2.71	1.33	1.38
1	2A	2251	OMG	C6-N1	-2.71	1.33	1.37
1	2A	1915	5MU	C2-N1	2.70	1.42	1.38
55	1x	54	5MU	C6-C5	2.70	1.39	1.34
1	2A	1942	5MC	C6-C5	2.70	1.39	1.34
54	1y	37	MIA	C2-N3	2.70	1.36	1.32
54	2y	39	PSU	C4-N3	-2.70	1.33	1.38
1	2A	1939	5MU	C4-N3	-2.69	1.33	1.38
54	1w	54	5MU	C4-C5	2.68	1.49	1.44
32	2a	1518	MA6	C5-C4	2.66	1.48	1.40
54	1w	39	PSU	C4-N3	-2.65	1.33	1.38
32	1a	516	PSU	C4-N3	-2.64	1.33	1.38
54	1y	54	5MU	C2-N1	2.64	1.42	1.38
1	2A	1917	PSU	C4-N3	-2.64	1.33	1.38
1	1A	1939	PSU	C4-N3	-2.63	1.33	1.38
1	2A	2605	PSU	C4-N3	-2.63	1.34	1.38
55	1x	54	5MU	C4-N3	-2.62	1.34	1.38
54	1w	54	5MU	C6-C5	2.61	1.38	1.34
1	1A	1933	PSU	C4-N3	-2.61	1.34	1.38
54	2w	39	PSU	C4-N3	-2.61	1.34	1.38
54	1w	37	MIA	C5-C4	2.61	1.47	1.40
32	2a	966	M2G	C2-N2	2.60	1.40	1.35
55	2x	54	5MU	C6-C5	2.60	1.38	1.34
1	1A	2617	PSU	C6-C5	2.60	1.38	1.35
54	1w	32	PSU	C4-N3	-2.58	1.34	1.38
1	1A	1961	5MU	C6-C5	2.58	1.38	1.34
54	2w	55	PSU	C4-N3	-2.57	1.34	1.38
54	2w	37	MIA	C5-C4	2.57	1.47	1.40
1	1A	1961	5MU	C4-N3	-2.57	1.34	1.38
54	2y	37	MIA	C2-N3	2.55	1.36	1.32
54	2y	46	7MG	C8-N9	2.54	1.47	1.46
32	1a	1207	2MG	C6-N1	-2.54	1.34	1.37
32	2a	1519	MA6	C5-C4	2.53	1.47	1.40
54	1y	55	PSU	C4-N3	-2.53	1.34	1.38
32	1a	1519	MA6	C5-C4	2.52	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	8	4SU	C5-C4	-2.52	1.39	1.42
1	2A	2552	2MU	C4-N3	-2.50	1.34	1.38
55	2x	54	5MU	C4-C5	2.49	1.48	1.44
1	1A	1937	5MU	C4-N3	-2.49	1.34	1.38
54	2y	8	4SU	C2-N1	2.49	1.42	1.38
54	1y	54	5MU	C4-C5	2.48	1.48	1.44
1	2A	1962	5MC	C6-C5	2.48	1.38	1.34
32	1a	967	5MC	C6-N1	-2.48	1.33	1.38
1	2A	1915	5MU	C4-N3	-2.47	1.34	1.38
1	2A	1911	PSU	C4-N3	-2.46	1.34	1.38
54	2y	55	PSU	C4-N3	-2.45	1.34	1.38
1	2A	1939	5MU	C6-N1	-2.45	1.33	1.38
54	1w	54	5MU	C4-N3	-2.44	1.34	1.38
1	2A	1915	5MU	C4-C5	2.44	1.48	1.44
32	1a	527	7MG	C8-N9	2.44	1.47	1.46
1	1A	2564	2MU	C5-C4	2.42	1.49	1.43
54	2w	54	5MU	C6-C5	2.42	1.38	1.34
1	2A	1939	5MU	C4-C5	2.42	1.48	1.44
32	2a	527	7MG	C6-N1	-2.42	1.34	1.38
32	1a	1518	MA6	C5-C4	2.42	1.47	1.40
54	2y	8	4SU	C4-N3	-2.41	1.35	1.37
55	2x	55	PSU	C4-N3	-2.41	1.34	1.38
1	2A	2552	2MU	C5-C4	2.39	1.48	1.43
54	2w	32	PSU	C4-N3	-2.37	1.34	1.38
54	2y	54	5MU	C4-N3	-2.37	1.34	1.38
54	1y	8	4SU	C5-C4	-2.37	1.39	1.42
54	2w	8	4SU	C5-C4	-2.36	1.39	1.42
32	1a	527	7MG	C6-N1	-2.35	1.34	1.38
1	1A	1984	5MC	C6-N1	-2.35	1.34	1.38
54	2y	8	4SU	C5-C4	-2.35	1.39	1.42
32	1a	967	5MC	C6-C5	2.33	1.38	1.34
32	2a	516	PSU	C4-N3	-2.32	1.34	1.38
1	1A	1961	5MU	C6-N1	-2.31	1.34	1.38
54	1y	39	PSU	C4-N3	-2.31	1.34	1.38
54	2y	46	7MG	C6-N1	-2.31	1.34	1.38
1	2A	1962	5MC	C6-N1	-2.30	1.34	1.38
1	1A	2564	2MU	C2-N3	-2.29	1.33	1.38
54	1y	46	7MG	C6-N1	-2.29	1.34	1.38
54	1y	32	PSU	C4-N3	-2.29	1.34	1.38
32	1a	1404	5MC	C6-N1	-2.29	1.34	1.38
54	1w	54	5MU	C2-N1	2.28	1.42	1.38
55	1x	54	5MU	C2-N1	2.28	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	1x	54	5MU	C4-C5	2.28	1.48	1.44
55	2x	54	5MU	C4-N3	-2.28	1.34	1.38
54	1y	8	4SU	C2-N1	2.28	1.42	1.38
54	2w	54	5MU	C4-C5	2.28	1.48	1.44
54	2y	32	PSU	C4-N3	-2.28	1.34	1.38
54	1w	55	PSU	C4-N3	-2.27	1.34	1.38
1	1A	1964	5MC	C6-N1	-2.26	1.34	1.38
32	2a	1404	5MC	C6-N1	-2.26	1.34	1.38
1	2A	1942	5MC	C6-N1	-2.25	1.34	1.38
1	1A	1937	5MU	C4-C5	2.25	1.48	1.44
54	2y	46	7MG	C4-N9	-2.24	1.35	1.37
55	2x	32	5MC	C6-N1	-2.24	1.34	1.38
55	1x	32	5MC	C6-N1	-2.22	1.34	1.38
54	2w	54	5MU	C4-N3	-2.22	1.34	1.38
54	1w	46	7MG	C6-N1	-2.21	1.34	1.38
32	2a	1207	2MG	C6-N1	-2.20	1.34	1.37
54	1y	54	5MU	C2-N3	-2.17	1.34	1.38
55	2x	8	4SU	C2-N1	2.17	1.41	1.38
55	2x	8	4SU	O2-C2	2.15	1.27	1.23
32	2a	1407	5MC	C6-N1	-2.15	1.34	1.38
54	1y	54	5MU	C6-N1	-2.15	1.34	1.38
1	2A	1939	5MU	C2-N1	2.14	1.41	1.38
55	1x	55	PSU	C4-N3	-2.13	1.34	1.38
54	1y	46	7MG	C8-N9	2.13	1.47	1.46
55	1x	54	5MU	C6-N1	-2.13	1.34	1.38
32	2a	1400	5MC	C6-N1	-2.13	1.34	1.38
54	1w	8	4SU	C2-N3	-2.12	1.34	1.38
32	1a	1407	5MC	C6-N1	-2.12	1.34	1.38
54	2w	46	7MG	C8-N9	2.12	1.47	1.46
32	1a	527	7MG	C5-C6	2.11	1.49	1.43
1	1A	2515	2MA	C2-N3	2.11	1.35	1.31
54	2w	37	MIA	C6-N1	2.10	1.35	1.32
54	2y	55	PSU	C2-N1	-2.10	1.33	1.36
1	1A	1961	5MU	C2-N1	2.10	1.41	1.38
54	1w	37	MIA	C6-N1	2.09	1.35	1.32
1	1A	2617	PSU	C2-N3	-2.09	1.33	1.37
1	2A	1939	5MU	C2-N3	-2.08	1.34	1.38
54	1w	54	5MU	C6-N1	-2.08	1.34	1.38
1	2A	2503	2MA	C6-N1	-2.07	1.33	1.38
55	2x	54	5MU	C6-N1	-2.07	1.34	1.38
54	2w	32	PSU	C4-C5	2.06	1.50	1.44
54	2y	54	5MU	C6-N1	-2.06	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	8	4SU	C2-N1	2.06	1.41	1.38
32	2a	967	5MC	C6-N1	-2.06	1.34	1.38
32	1a	1498	UR3	C2-N1	2.06	1.41	1.38
54	2w	46	7MG	C6-N1	-2.05	1.35	1.38
32	2a	1498	UR3	C6-C5	2.04	1.39	1.35
55	2x	54	5MU	C2-N1	2.03	1.41	1.38
1	1A	1937	5MU	C6-N1	-2.02	1.34	1.38
32	1a	1400	5MC	C6-N1	-2.02	1.34	1.38
1	2A	2503	2MA	C2-N3	2.01	1.35	1.31
1	2A	1915	5MU	C6-N1	-2.00	1.34	1.38
32	1a	516	PSU	O4'-C1'	-2.00	1.41	1.43

All (321) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1y	46	7MG	N9-C4-N3	9.63	139.87	125.47
54	1w	46	7MG	N9-C4-N3	9.13	139.12	125.47
54	2y	46	7MG	N9-C4-N3	9.01	138.95	125.47
32	2a	527	7MG	N9-C4-N3	8.85	138.71	125.47
32	1a	527	7MG	N9-C4-N3	8.47	138.13	125.47
54	2w	46	7MG	N9-C4-N3	8.22	137.77	125.47
54	1w	37	MIA	C12-C13-C14	-7.92	111.73	127.14
54	2y	8	4SU	C4-N3-C2	-7.06	120.48	127.34
43	1l	92	0TD	CSB-SB-CB	-7.00	89.78	102.44
54	2w	8	4SU	C4-N3-C2	-6.90	120.64	127.34
54	1w	8	4SU	C4-N3-C2	-6.38	121.14	127.34
1	1A	1933	PSU	N1-C2-N3	6.27	122.23	115.13
54	1y	55	PSU	N1-C2-N3	6.24	122.20	115.13
1	2A	1917	PSU	N1-C2-N3	6.14	122.09	115.13
54	1w	39	PSU	N1-C2-N3	6.12	122.06	115.13
1	2A	2605	PSU	N1-C2-N3	6.11	122.05	115.13
54	2y	8	4SU	C5-C4-N3	6.10	120.35	114.69
32	2a	1498	UR3	C4-N3-C2	-6.09	118.82	124.56
54	1w	8	4SU	C5-C4-N3	6.06	120.31	114.69
54	2w	8	4SU	C5-C4-N3	5.99	120.25	114.69
55	1x	55	PSU	N1-C2-N3	5.97	121.90	115.13
55	2x	55	PSU	N1-C2-N3	5.85	121.76	115.13
54	2y	39	PSU	N1-C2-N3	5.82	121.72	115.13
1	1A	1961	5MU	C4-N3-C2	-5.78	119.87	127.35
54	2w	55	PSU	N1-C2-N3	5.76	121.65	115.13
55	2x	54	5MU	C4-N3-C2	-5.75	119.91	127.35
32	1a	1498	UR3	C4-N3-C2	-5.74	119.16	124.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	55	PSU	N1-C2-N3	5.73	121.62	115.13
1	1A	1961	5MU	O4-C4-C5	-5.72	118.27	124.90
32	2a	516	PSU	N1-C2-N3	5.69	121.57	115.13
54	1w	32	PSU	N1-C2-N3	5.68	121.57	115.13
1	2A	1939	5MU	C4-N3-C2	-5.67	120.00	127.35
32	2a	527	7MG	N9-C8-N7	-5.67	95.27	103.38
54	1y	8	4SU	C4-N3-C2	-5.64	121.87	127.34
54	1y	46	7MG	C5-C4-N3	-5.59	117.48	128.13
54	2y	32	PSU	N1-C2-N3	5.55	121.42	115.13
1	2A	1911	PSU	N1-C2-N3	5.53	121.40	115.13
1	1A	2617	PSU	N1-C2-N3	5.53	121.39	115.13
1	1A	2564	2MU	N3-C2-N1	5.50	122.19	114.89
54	2w	32	PSU	N1-C2-N3	5.50	121.36	115.13
54	2y	54	5MU	C4-N3-C2	-5.43	120.32	127.35
1	1A	1939	PSU	N1-C2-N3	5.42	121.27	115.13
1	1A	1937	5MU	C4-N3-C2	-5.42	120.34	127.35
32	1a	527	7MG	C5-C4-N3	-5.41	117.82	128.13
32	1a	516	PSU	N1-C2-N3	5.41	121.26	115.13
54	2y	55	PSU	N1-C2-N3	5.40	121.24	115.13
54	1w	54	5MU	C4-N3-C2	-5.39	120.38	127.35
55	2x	54	5MU	N3-C2-N1	5.39	122.04	114.89
54	1y	39	PSU	N1-C2-N3	5.38	121.22	115.13
54	1y	32	PSU	N1-C2-N3	5.36	121.20	115.13
54	1w	46	7MG	N9-C8-N7	-5.33	95.76	103.38
54	2y	46	7MG	C5-C4-N3	-5.31	118.00	128.13
54	2w	46	7MG	N9-C8-N7	-5.31	95.79	103.38
32	2a	527	7MG	C5-C4-N3	-5.27	118.09	128.13
1	2A	1939	5MU	N3-C2-N1	5.18	121.77	114.89
1	1A	1937	5MU	N3-C2-N1	5.15	121.72	114.89
1	2A	1915	5MU	C4-N3-C2	-5.14	120.69	127.35
1	1A	1961	5MU	C5-C4-N3	5.12	119.69	115.31
54	2w	39	PSU	N1-C2-N3	5.12	120.93	115.13
54	2y	54	5MU	N3-C2-N1	5.09	121.65	114.89
54	1w	46	7MG	C5-C4-N3	-5.05	118.50	128.13
54	1w	54	5MU	N3-C2-N1	5.02	121.55	114.89
1	2A	2552	2MU	N3-C2-N1	5.01	121.54	114.89
1	1A	1937	5MU	C5-C4-N3	5.00	119.58	115.31
54	2y	46	7MG	N9-C8-N7	-4.99	96.24	103.38
54	2w	46	7MG	C5-C4-N3	-4.98	118.64	128.13
1	2A	1915	5MU	C5-C4-N3	4.96	119.55	115.31
54	1y	54	5MU	C4-N3-C2	-4.93	120.97	127.35
54	1y	46	7MG	N9-C8-N7	-4.92	96.34	103.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1y	8	4SU	C5-C4-N3	4.88	119.22	114.69
55	1x	54	5MU	C4-N3-C2	-4.83	121.09	127.35
54	1y	54	5MU	N3-C2-N1	4.81	121.28	114.89
32	1a	527	7MG	N9-C8-N7	-4.79	96.53	103.38
54	2w	37	MIA	C2-N3-C4	4.77	121.90	115.32
1	1A	1961	5MU	N3-C2-N1	4.76	121.20	114.89
1	1A	1937	5MU	O4-C4-C5	-4.75	119.40	124.90
55	1x	54	5MU	N3-C2-N1	4.72	121.15	114.89
1	2A	1939	5MU	C5-C4-N3	4.71	119.33	115.31
1	2A	1939	5MU	C5-C6-N1	-4.66	118.54	123.34
54	1w	54	5MU	C5-C4-N3	4.63	119.26	115.31
54	2y	8	4SU	C5-C4-S4	-4.60	118.53	124.47
43	2l	92	0TD	CSB-SB-CB	-4.60	94.12	102.44
1	2A	1915	5MU	N3-C2-N1	4.59	120.99	114.89
55	2x	54	5MU	C5-C4-N3	4.59	119.22	115.31
54	2w	54	5MU	C4-N3-C2	-4.56	121.45	127.35
54	1y	46	7MG	C2-N3-C4	4.56	120.42	112.30
1	2A	2605	PSU	C4-N3-C2	-4.54	119.79	126.34
54	2y	54	5MU	C5-C4-N3	4.53	119.18	115.31
54	2w	54	5MU	C5-C4-N3	4.51	119.16	115.31
1	1A	1961	5MU	C5-C6-N1	-4.51	118.70	123.34
1	2A	2552	2MU	C4-N3-C2	-4.48	120.67	126.58
54	2w	54	5MU	O4-C4-C5	-4.45	119.75	124.90
54	1y	54	5MU	C5-C4-N3	4.31	118.99	115.31
55	2x	54	5MU	O4-C4-C5	-4.29	119.93	124.90
1	2A	1915	5MU	O4-C4-C5	-4.24	119.99	124.90
32	2a	527	7MG	C2-N3-C4	4.22	119.82	112.30
54	2w	46	7MG	C2-N3-C4	4.22	119.81	112.30
1	1A	2617	PSU	C4-N3-C2	-4.21	120.28	126.34
55	1x	54	5MU	C5-C4-N3	4.19	118.88	115.31
32	2a	1400	5MC	C5-C6-N1	-4.18	119.04	123.34
54	2y	46	7MG	C2-N3-C4	4.18	119.75	112.30
1	1A	2564	2MU	C4-N3-C2	-4.15	121.10	126.58
32	1a	527	7MG	C2-N3-C4	4.14	119.68	112.30
54	1y	55	PSU	C4-N3-C2	-4.11	120.41	126.34
54	1w	37	MIA	C2-N3-C4	4.10	120.98	115.32
1	2A	1939	5MU	O4-C4-C5	-4.03	120.23	124.90
54	2w	54	5MU	N3-C2-N1	4.03	120.24	114.89
54	2w	8	4SU	N3-C2-N1	4.01	120.22	114.89
54	1w	39	PSU	C4-N3-C2	-4.01	120.56	126.34
1	1A	1933	PSU	O2-C2-N1	-4.00	118.39	122.79
54	2y	8	4SU	N3-C2-N1	3.95	120.13	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	2w	55	PSU	C4-N3-C2	-3.93	120.67	126.34
55	1x	8	4SU	C6-C5-C4	-3.93	116.55	119.95
54	1w	37	MIA	C5-C6-N1	-3.92	117.55	120.81
55	2x	55	PSU	C4-N3-C2	-3.91	120.71	126.34
54	2w	8	4SU	C5-C4-S4	-3.91	119.43	124.47
55	1x	8	4SU	C5-C4-N3	3.87	118.28	114.69
54	1w	46	7MG	C2-N3-C4	3.87	119.19	112.30
54	2y	54	5MU	O4-C4-C5	-3.87	120.42	124.90
55	1x	55	PSU	C4-N3-C2	-3.86	120.78	126.34
55	1x	54	5MU	O4-C4-C5	-3.86	120.43	124.90
1	1A	1964	5MC	C5-C6-N1	-3.85	119.37	123.34
32	2a	516	PSU	C4-N3-C2	-3.83	120.82	126.34
54	1y	8	4SU	N3-C2-N1	3.83	119.97	114.89
1	2A	1962	5MC	C5-C6-N1	-3.82	119.41	123.34
54	1w	32	PSU	C4-N3-C2	-3.79	120.88	126.34
32	1a	516	PSU	C4-N3-C2	-3.79	120.89	126.34
54	2y	32	PSU	C4-N3-C2	-3.78	120.89	126.34
54	1w	37	MIA	C16-C14-C13	-3.77	111.76	122.65
54	1w	8	4SU	N3-C2-N1	3.75	119.87	114.89
54	1y	54	5MU	C5-C6-N1	-3.75	119.48	123.34
1	2A	1917	PSU	C4-N3-C2	-3.74	120.94	126.34
1	1A	1933	PSU	C4-N3-C2	-3.74	120.95	126.34
55	1x	55	PSU	O2-C2-N1	-3.74	118.67	122.79
54	1w	54	5MU	C5-C6-N1	-3.74	119.49	123.34
55	2x	8	4SU	C5-C4-N3	3.71	118.14	114.69
32	2a	1518	MA6	C4-C5-N7	-3.71	105.53	109.40
54	2y	55	PSU	O2-C2-N1	-3.69	118.72	122.79
55	2x	8	4SU	C1'-N1-C2	3.68	124.24	117.57
1	1A	2564	2MU	O2-C2-N1	-3.68	117.90	122.79
54	1w	54	5MU	O4-C4-C5	-3.68	120.64	124.90
54	1w	37	MIA	C15-C14-C13	-3.67	112.03	122.65
32	2a	1404	5MC	C5-C6-N1	-3.67	119.56	123.34
55	1x	32	5MC	C5-C6-N1	-3.67	119.56	123.34
55	2x	54	5MU	C5-C6-N1	-3.66	119.57	123.34
54	1w	55	PSU	C4-N3-C2	-3.65	121.08	126.34
55	2x	32	5MC	C5-C6-N1	-3.63	119.61	123.34
55	1x	8	4SU	O2-C2-N1	3.63	127.61	122.79
1	1A	1939	PSU	C4-N3-C2	-3.59	121.16	126.34
1	1A	1984	5MC	C5-C6-N1	-3.59	119.65	123.34
54	2y	39	PSU	C4-N3-C2	-3.55	121.22	126.34
1	2A	1911	PSU	C4-N3-C2	-3.55	121.22	126.34
54	2w	32	PSU	C4-N3-C2	-3.54	121.24	126.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	55	PSU	O2-C2-N1	-3.54	118.90	122.79
32	2a	1519	MA6	C4-C5-N7	-3.52	105.73	109.40
32	1a	1518	MA6	N3-C2-N1	-3.52	123.17	128.68
54	2w	39	PSU	C4-N3-C2	-3.52	121.27	126.34
32	2a	1518	MA6	C9-N6-C6	-3.49	108.94	119.51
54	2y	37	MIA	N3-C2-N1	-3.49	123.23	128.68
54	1y	55	PSU	O2-C2-N1	-3.48	118.95	122.79
1	2A	1915	5MU	C5-C6-N1	-3.48	119.76	123.34
54	1w	32	PSU	O2-C2-N1	-3.47	118.97	122.79
55	2x	54	5MU	O2-C2-N1	-3.47	118.17	122.79
54	2w	8	4SU	C1'-N1-C2	3.47	123.85	117.57
54	2y	54	5MU	C5-C6-N1	-3.46	119.78	123.34
54	1y	37	MIA	N3-C2-N1	-3.46	123.28	128.68
54	1y	54	5MU	O4-C4-C5	-3.45	120.90	124.90
54	1y	39	PSU	C4-N3-C2	-3.45	121.36	126.34
1	2A	1917	PSU	O2-C2-N1	-3.44	119.00	122.79
32	1a	1518	MA6	C4-C5-N7	-3.43	105.82	109.40
55	1x	54	5MU	C5-C6-N1	-3.41	119.83	123.34
54	1y	32	PSU	O2-C2-N1	-3.40	119.05	122.79
54	2y	55	PSU	C4-N3-C2	-3.34	121.52	126.34
54	1w	8	4SU	C5-C4-S4	-3.34	120.16	124.47
54	2w	37	MIA	C5-C6-N1	-3.33	118.05	120.81
32	2a	1518	MA6	N3-C2-N1	-3.32	123.49	128.68
54	1y	32	PSU	C4-N3-C2	-3.29	121.59	126.34
43	1l	92	0TD	OD2-CG-CB	3.29	120.25	113.15
32	1a	1519	MA6	N3-C2-N1	-3.28	123.56	128.68
32	2a	967	5MC	C5-C6-N1	-3.27	119.98	123.34
32	1a	1518	MA6	C9-N6-C6	-3.26	109.64	119.51
1	2A	2552	2MU	O2-C2-N1	-3.25	118.47	122.79
32	1a	1400	5MC	C5-C6-N1	-3.24	120.01	123.34
54	2w	32	PSU	O2-C2-N1	-3.20	119.27	122.79
32	1a	1519	MA6	C9-N6-C6	-3.19	109.84	119.51
54	2w	55	PSU	O2-C2-N1	-3.18	119.29	122.79
43	2l	92	0TD	OD2-CG-CB	3.14	119.92	113.15
32	1a	1404	5MC	C5-C6-N1	-3.11	120.14	123.34
1	1A	1937	5MU	C5-C6-N1	-3.11	120.14	123.34
32	1a	1407	5MC	C5-C6-N1	-3.11	120.14	123.34
32	2a	1407	5MC	C5-C4-N3	-3.11	118.32	121.67
32	1a	1519	MA6	C4-C5-N7	-3.10	106.16	109.40
54	2w	37	MIA	C12-N6-C6	-3.10	120.21	122.87
32	2a	1519	MA6	N1-C6-N6	3.09	120.30	117.06
32	2a	1407	5MC	C5-C6-N1	-3.07	120.18	123.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	46	7MG	C5-C4-N9	-3.06	102.37	106.35
54	1w	37	MIA	C2-N1-C6	3.06	122.67	117.19
54	2w	54	5MU	C5-C6-N1	-3.02	120.23	123.34
54	1y	8	4SU	C5-C4-S4	-2.99	120.62	124.47
54	2y	32	PSU	O2-C2-N1	-2.98	119.52	122.79
32	1a	1404	5MC	C5-C4-N3	-2.97	118.47	121.67
32	2a	516	PSU	O2-C2-N1	-2.96	119.53	122.79
32	2a	1519	MA6	C9-N6-C6	-2.95	110.57	119.51
32	1a	1400	5MC	C5-C4-N3	-2.95	118.49	121.67
54	1y	39	PSU	O2-C2-N1	-2.95	119.54	122.79
1	2A	1942	5MC	C5-C6-N1	-2.93	120.32	123.34
1	2A	2605	PSU	O2-C2-N1	-2.93	119.56	122.79
1	1A	1961	5MU	O2-C2-N1	-2.93	118.89	122.79
54	1w	39	PSU	O2-C2-N1	-2.92	119.58	122.79
32	2a	527	7MG	C5-C6-N1	2.91	116.12	110.99
32	1a	967	5MC	C1'-N1-C6	-2.87	116.34	121.12
32	2a	1519	MA6	N3-C2-N1	-2.87	124.19	128.68
54	1y	46	7MG	C5-C4-N9	-2.86	102.64	106.35
54	2w	37	MIA	C4-C5-N7	-2.86	106.42	109.40
1	1A	1964	5MC	C5-C4-N3	-2.85	118.60	121.67
55	1x	32	5MC	C5-C4-N3	-2.85	118.60	121.67
55	2x	55	PSU	O2-C2-N1	-2.83	119.67	122.79
1	2A	1942	5MC	C5-C4-N3	-2.83	118.62	121.67
54	2y	37	MIA	C4-C5-N7	-2.81	106.47	109.40
1	2A	1911	PSU	O2-C2-N1	-2.79	119.72	122.79
32	1a	1518	MA6	C10-N6-C9	-2.79	107.14	116.12
54	1y	37	MIA	C4-C5-N7	-2.76	106.52	109.40
55	2x	32	5MC	C5-C4-N3	-2.74	118.71	121.67
32	2a	1404	5MC	C5-C4-N3	-2.74	118.72	121.67
1	2A	1939	5MU	O2-C2-N1	-2.72	119.16	122.79
55	1x	8	4SU	O2-C2-N3	-2.72	116.44	121.50
54	1w	37	MIA	C12-N6-C6	-2.72	118.52	122.55
54	2w	37	MIA	C2-N1-C6	2.71	122.04	117.19
32	1a	1407	5MC	C5-C4-N3	-2.71	118.75	121.67
32	1a	966	M2G	N1-C2-N2	-2.68	115.75	118.04
32	1a	967	5MC	C5-C6-N1	-2.68	120.58	123.34
1	2A	2552	2MU	C5-C4-N3	2.67	118.84	114.84
32	1a	1207	2MG	C8-N7-C5	2.67	108.07	102.99
32	1a	1402	4OC	C6-C5-C4	2.66	120.21	116.96
54	2w	46	7MG	C5-C6-N1	2.66	115.67	110.99
54	2y	54	5MU	C1'-N1-C2	2.63	122.34	117.57
55	1x	8	4SU	C1'-N1-C2	2.63	122.33	117.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	2564	2MU	C2'-C1'-N1	-2.63	109.12	114.22
54	1w	37	MIA	C4-C5-N7	-2.61	106.68	109.40
54	1y	8	4SU	C1'-N1-C2	2.61	122.29	117.57
55	1x	8	4SU	S4-C4-N3	-2.58	117.66	120.21
54	2w	37	MIA	N3-C2-N1	-2.58	122.23	126.98
54	2y	46	7MG	C5-C4-N9	-2.55	103.03	106.35
54	2y	39	PSU	O2-C2-N1	-2.55	119.98	122.79
1	2A	2552	2MU	O4-C4-C5	-2.54	120.70	125.16
32	2a	1207	2MG	C8-N7-C5	2.54	107.82	102.99
32	2a	1402	4OC	C6-C5-C4	2.53	120.06	116.96
1	1A	2617	PSU	O2-C2-N1	-2.53	120.01	122.79
54	1w	37	MIA	N3-C2-N1	-2.52	122.34	126.98
54	1w	54	5MU	O2-C2-N1	-2.51	119.45	122.79
55	2x	8	4SU	C6-C5-C4	-2.50	117.78	119.95
1	2A	2251	OMG	C8-N7-C5	2.47	107.70	102.99
55	2x	32	5MC	O2-C2-N3	-2.45	118.35	122.33
54	2w	32	PSU	C6-C5-C4	-2.44	116.49	118.20
1	1A	1984	5MC	O2-C2-N3	-2.44	118.36	122.33
54	2y	55	PSU	C6-C5-C4	-2.44	116.49	118.20
1	1A	1984	5MC	C5-C4-N3	-2.44	119.05	121.67
32	1a	527	7MG	C5-C6-N1	2.43	115.27	110.99
32	2a	527	7MG	C5-C4-N9	-2.43	103.19	106.35
1	2A	2251	OMG	C5-C6-N1	2.42	118.23	113.95
32	1a	966	M2G	C8-N7-C5	2.42	107.60	102.99
43	2l	92	0TD	OD1-CG-CB	-2.38	117.45	122.44
32	2a	966	M2G	C8-N7-C5	2.38	107.52	102.99
32	1a	966	M2G	C5-C6-N1	2.38	118.15	113.95
1	1A	1939	PSU	O2-C2-N1	-2.38	120.17	122.79
1	1A	2564	2MU	C5-C4-N3	2.37	118.39	114.84
32	2a	1407	5MC	O2-C2-N3	-2.37	118.48	122.33
54	1y	46	7MG	C5-C6-N1	2.35	115.14	110.99
32	1a	516	PSU	O2-C2-N1	-2.35	120.20	122.79
32	1a	516	PSU	O4'-C1'-C2'	2.34	108.44	105.14
1	2A	2605	PSU	C5-C6-N1	-2.34	118.61	122.11
32	2a	1498	UR3	C3U-N3-C4	2.32	121.21	117.89
32	1a	967	5MC	C5-C4-N3	-2.31	119.18	121.67
32	2a	967	5MC	C5-C4-N3	-2.31	119.18	121.67
1	1A	1984	5MC	CM5-C5-C6	-2.30	119.78	122.85
54	2w	54	5MU	C5M-C5-C4	2.30	121.30	118.77
55	2x	8	4SU	O2-C2-N1	2.29	125.83	122.79
54	1w	46	7MG	O6-C6-C5	-2.28	121.94	127.54
1	1A	1964	5MC	O2-C2-N3	-2.28	118.62	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	54	5MU	C5M-C5-C4	2.26	121.26	118.77
55	1x	32	5MC	O2-C2-N3	-2.26	118.65	122.33
1	1A	2263	OMG	C5-C6-N1	2.26	117.94	113.95
1	1A	2617	PSU	C5-C6-N1	-2.25	118.73	122.11
1	2A	2503	2MA	C8-N7-C5	2.25	107.27	102.99
54	1y	55	PSU	C5-C6-N1	-2.24	118.75	122.11
1	1A	2263	OMG	C8-N7-C5	2.24	107.25	102.99
32	1a	1400	5MC	O2-C2-N3	-2.21	118.73	122.33
54	2y	54	5MU	C1'-N1-C6	-2.21	117.44	121.12
1	2A	2503	2MA	C5-C6-N1	2.20	117.81	114.02
54	1w	46	7MG	C5-C6-N1	2.19	114.85	110.99
32	2a	1400	5MC	O2-C2-N3	-2.18	118.78	122.33
55	1x	54	5MU	O2-C2-N1	-2.17	119.91	122.79
54	2y	8	4SU	C1'-N1-C2	2.17	121.49	117.57
1	1A	2515	2MA	C5-C6-N1	2.16	117.75	114.02
54	2y	46	7MG	C5-C6-N1	2.15	114.79	110.99
32	1a	1519	MA6	N1-C6-N6	2.15	119.32	117.06
54	1w	39	PSU	C5-C6-N1	-2.15	118.88	122.11
32	2a	1400	5MC	C5-C4-N3	-2.14	119.37	121.67
1	1A	1937	5MU	C1'-N1-C2	2.13	121.43	117.57
54	2y	8	4SU	O2-C2-N1	-2.13	119.95	122.79
54	2w	46	7MG	C5-C4-N9	-2.13	103.58	106.35
54	2w	54	5MU	O2-C2-N1	-2.13	119.96	122.79
1	2A	1962	5MC	C5-C4-N3	-2.12	119.38	121.67
54	2y	39	PSU	C5-C6-N1	-2.12	118.93	122.11
32	1a	1404	5MC	O2-C2-N3	-2.12	118.89	122.33
54	2y	54	5MU	C5M-C5-C4	2.11	121.09	118.77
1	1A	1937	5MU	O2-C2-N3	-2.11	117.57	121.50
54	2y	54	5MU	C5M-C5-C6	-2.10	120.04	122.85
32	2a	1207	2MG	CM2-N2-C2	-2.09	119.25	123.86
55	2x	55	PSU	C5-C6-N1	-2.08	118.98	122.11
1	2A	1915	5MU	C5M-C5-C4	2.07	121.04	118.77
32	1a	1518	MA6	C10-N6-C6	-2.06	113.26	119.51
32	2a	966	M2G	C5-C6-N1	2.06	117.59	113.95
32	2a	1207	2MG	C5-C6-N1	2.06	117.59	113.95
1	1A	2617	PSU	O4-C4-C5	-2.06	118.66	124.05
54	2w	46	7MG	O6-C6-C5	-2.05	122.52	127.54
54	2y	37	MIA	C2-N1-C6	2.04	122.25	118.75
32	2a	516	PSU	O4'-C1'-C2'	2.03	108.00	105.14
32	2a	527	7MG	O6-C6-C5	-2.02	122.58	127.54
54	1y	46	7MG	CM7-N7-C5	2.02	131.62	126.40
55	2x	8	4SU	O2-C2-N3	-2.01	117.75	121.50

There are no chirality outliers.

All (73) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	1518	MA6	C5-C6-N6-C9
32	1a	1518	MA6	C5-C6-N6-C10
32	1a	1519	MA6	C5-C6-N6-C10
32	2a	1518	MA6	C5-C6-N6-C9
54	2w	32	PSU	C2'-C1'-C5-C4
54	1w	37	MIA	C12-C13-C14-C16
54	2w	37	MIA	N1-C6-N6-C12
54	2w	37	MIA	N3-C2-S10-C11
54	2y	37	MIA	O4'-C4'-C5'-O5'
54	2y	37	MIA	C3'-C4'-C5'-O5'
54	1y	46	7MG	C4'-C5'-O5'-P
54	2w	46	7MG	O4'-C4'-C5'-O5'
54	2w	46	7MG	C3'-C4'-C5'-O5'
54	2y	46	7MG	C2'-C1'-N9-C8
54	1y	54	5MU	C3'-C4'-C5'-O5'
54	1y	54	5MU	O4'-C4'-C5'-O5'
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	527	7MG	C3'-C4'-C5'-O5'
32	2a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'
54	2y	54	5MU	C3'-C4'-C5'-O5'
54	2w	37	MIA	N1-C2-S10-C11
32	1a	1400	5MC	O4'-C4'-C5'-O5'
32	1a	1400	5MC	C3'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
32	2a	1402	4OC	C3'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
54	1y	8	4SU	C3'-C4'-C5'-O5'
54	1y	8	4SU	O4'-C4'-C5'-O5'
54	2y	54	5MU	O4'-C4'-C5'-O5'
32	2a	1518	MA6	N1-C6-N6-C9
32	1a	1402	4OC	O4'-C4'-C5'-O5'
32	1a	527	7MG	C3'-C4'-C5'-O5'
32	1a	1518	MA6	N1-C6-N6-C9
32	2a	527	7MG	O4'-C4'-C5'-O5'
54	1y	46	7MG	C3'-C4'-C5'-O5'
32	2a	1518	MA6	C5-C6-N6-C10
32	2a	1519	MA6	C5-C6-N6-C10
1	2A	2552	2MU	O4'-C4'-C5'-O5'
54	1w	46	7MG	C4'-C5'-O5'-P

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Mol	Chain	Res	Type	Atoms
32	1a	527	7MG	O4'-C4'-C5'-O5'
1	2A	1915	5MU	O4'-C4'-C5'-O5'
43	1l	92	0TD	CG-CB-SB-CSB
43	2l	92	0TD	CG-CB-SB-CSB
54	2w	46	7MG	C4'-C5'-O5'-P
32	1a	967	5MC	O4'-C4'-C5'-O5'
1	2A	1920	4OC	C3'-C2'-O2'-CM2
32	2a	967	5MC	O4'-C4'-C5'-O5'
32	2a	527	7MG	C4'-C5'-O5'-P
54	2y	37	MIA	C4'-C5'-O5'-P
32	2a	1519	MA6	C4'-C5'-O5'-P
32	1a	1402	4OC	C3'-C4'-C5'-O5'
54	2w	8	4SU	C2'-C1'-N1-C6
54	1y	8	4SU	C4'-C5'-O5'-P
1	2A	2503	2MA	O4'-C4'-C5'-O5'
54	2y	54	5MU	C2'-C1'-N1-C6
32	2a	516	PSU	O4'-C1'-C5-C4
54	1y	55	PSU	O4'-C1'-C5-C4
32	1a	527	7MG	C4'-C5'-O5'-P
43	1l	92	0TD	SB-CB-CG-OD2
54	1y	46	7MG	C2'-C1'-N9-C8
54	1y	8	4SU	C2'-C1'-N1-C2
1	1A	2515	2MA	C4'-C5'-O5'-P
1	1A	2515	2MA	O4'-C4'-C5'-O5'
1	1A	1984	5MC	C2'-C1'-N1-C6
54	1y	55	PSU	O4'-C1'-C5-C6
54	2y	54	5MU	C2'-C1'-N1-C2
32	1a	967	5MC	C3'-C4'-C5'-O5'
1	2A	1915	5MU	C3'-C4'-C5'-O5'
54	2w	8	4SU	C2'-C1'-N1-C2
54	2y	55	PSU	O4'-C4'-C5'-O5'
1	1A	1984	5MC	O4'-C1'-N1-C6
55	2x	8	4SU	C2'-C1'-N1-C2

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 2625 ligands modelled in this entry, 2621 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	1d	501	35	0,12,12	-	-	-		
58	EZG	1A	4030	-	21,26,26	2.80	3 (14%)	26,35,35	1.55	4 (15%)
58	EZG	2A	3746	-	21,26,26	3.67	3 (14%)	26,35,35	1.14	3 (11%)
60	SF4	2d	501	35	0,12,12	-	-	-		

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	1d	501	35	-	-	0/6/5/5
58	EZG	1A	4030	-	-	5/24/26/26	0/2/2/2
58	EZG	2A	3746	-	-	8/24/26/26	0/2/2/2
60	SF4	2d	501	35	-	-	0/6/5/5

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	2A	3746	EZG	OAC-NAY	13.98	1.46	1.22
58	1A	4030	EZG	CAT-CAW	-8.54	1.39	1.51
58	2A	3746	EZG	CAT-CAW	-7.81	1.40	1.51
58	1A	4030	EZG	OAC-NAY	7.73	1.35	1.22
58	1A	4030	EZG	CAU-NAY	-4.83	1.33	1.45
58	2A	3746	EZG	CAU-NAY	-4.63	1.34	1.45

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
58	1A	4030	EZG	CAW-CAX-NAP	5.11	119.74	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
58	1A	4030	EZG	CAT-CAW-CAX	2.98	116.89	111.64
58	2A	3746	EZG	CAX-NAP-C	-2.97	117.83	123.07
58	1A	4030	EZG	CAI-CAG-CAT	-2.64	118.54	121.20
58	2A	3746	EZG	CAW-CAX-NAP	2.42	114.63	110.05
58	1A	4030	EZG	CAM-CAX-NAP	-2.28	105.64	109.27
58	2A	3746	EZG	CAI-CAU-NAY	2.10	120.95	119.38

There are no chirality outliers.

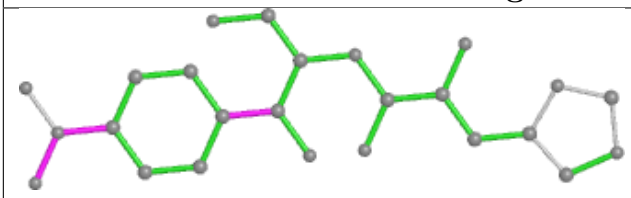
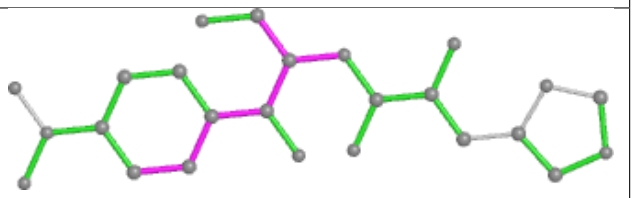
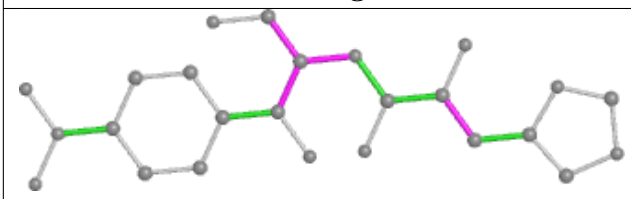
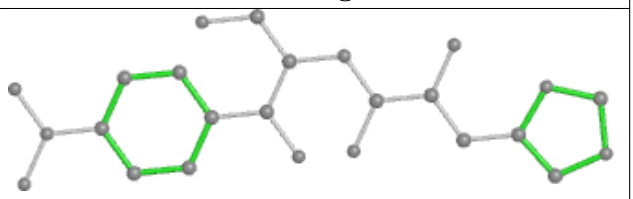
All (13) torsion outliers are listed below:

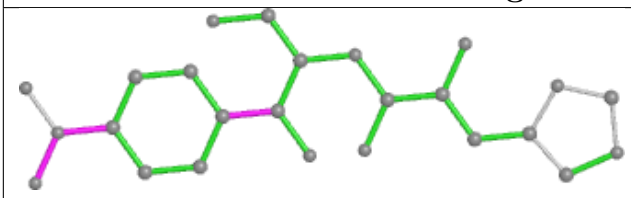
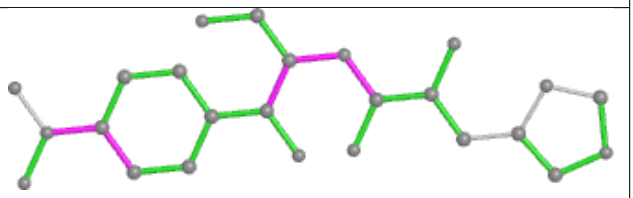
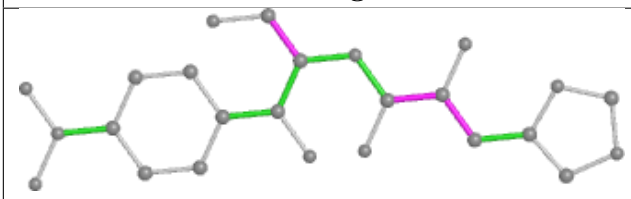
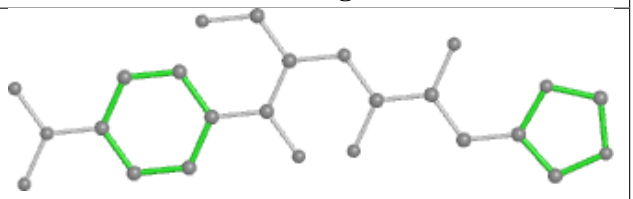
Mol	Chain	Res	Type	Atoms
58	2A	3746	EZG	O-C-CA-CB
58	2A	3746	EZG	NAP-C-CA-CB
58	2A	3746	EZG	NAP-C-CA-N
58	2A	3746	EZG	OAD-CAM-CAX-CAW
58	2A	3746	EZG	OAD-CAM-CAX-NAP
58	2A	3746	EZG	O-C-CA-N
58	1A	4030	EZG	N-CA-CB-CG
58	2A	3746	EZG	N-CA-CB-CG
58	1A	4030	EZG	CAM-CAX-NAP-C
58	1A	4030	EZG	OAD-CAM-CAX-NAP
58	1A	4030	EZG	C-CA-CB-CG
58	2A	3746	EZG	C-CA-CB-CG
58	1A	4030	EZG	OAE-CAW-CAX-CAM

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 EZG 1A 4030	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand EZG 2A 3746	
 Bond lengths	 Bond angles
 Torsions	 Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

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%)	0.07	15 (0%) 91 88	13, 30, 88, 101	0
1	2A	2789/2915 (95%)	0.07	13 (0%) 91 88	25, 51, 87, 100	0
2	1B	120/121 (99%)	-0.15	0 100 100	23, 43, 57, 85	0
2	2B	120/121 (99%)	-0.15	0 100 100	53, 71, 80, 89	0
3	1D	275/276 (99%)	0.12	2 (0%) 87 84	16, 31, 46, 74	0
3	2D	275/276 (99%)	0.15	0 100 100	23, 43, 56, 66	0
4	1E	204/206 (99%)	0.02	0 100 100	13, 33, 54, 71	0
4	2E	204/206 (99%)	0.25	2 (0%) 82 77	28, 54, 67, 74	0
5	1F	203/210 (96%)	0.00	1 (0%) 91 88	15, 35, 62, 82	0
5	2F	203/210 (96%)	0.18	3 (1%) 73 68	30, 62, 74, 82	0
6	1G	181/182 (99%)	-0.15	0 100 100	35, 51, 69, 78	0
6	2G	181/182 (99%)	0.40	8 (4%) 34 24	56, 72, 78, 83	0
7	1H	174/180 (96%)	-0.13	0 100 100	34, 46, 59, 66	0
7	2H	174/180 (96%)	1.62	67 (38%) 0 0	61, 75, 81, 86	0
8	1I	146/148 (98%)	-0.06	1 (0%) 87 84	39, 67, 75, 81	0
8	2I	146/148 (98%)	0.14	2 (1%) 75 70	50, 66, 77, 81	0
9	1N	140/140 (100%)	-0.09	0 100 100	21, 35, 55, 68	0
9	2N	140/140 (100%)	0.55	4 (2%) 51 41	43, 58, 72, 75	0
10	1O	122/122 (100%)	-0.03	0 100 100	22, 35, 50, 56	0
10	2O	122/122 (100%)	0.33	0 100 100	43, 54, 67, 70	0
11	1P	149/150 (99%)	0.02	0 100 100	14, 40, 62, 66	0
11	2P	149/150 (99%)	1.25	37 (24%) 0 0	30, 61, 75, 83	0
12	1Q	141/141 (100%)	0.17	0 100 100	22, 36, 49, 72	0
12	2Q	141/141 (100%)	1.01	20 (14%) 2 1	41, 60, 70, 76	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	1R	118/118 (100%)	0.19	0 100 100	18, 29, 44, 54	0
13	2R	118/118 (100%)	0.29	1 (0%) 86 81	33, 46, 55, 66	0
14	1S	110/112 (98%)	-0.12	1 (0%) 84 80	32, 44, 55, 60	0
14	2S	110/112 (98%)	1.33	24 (21%) 0 0	58, 67, 76, 79	0
15	1T	131/146 (89%)	-0.04	0 100 100	25, 39, 61, 71	0
15	2T	131/146 (89%)	0.43	5 (3%) 40 30	46, 58, 69, 75	0
16	1U	116/118 (98%)	0.03	0 100 100	14, 25, 42, 56	0
16	2U	116/118 (98%)	0.31	1 (0%) 84 80	35, 55, 67, 73	0
17	1V	101/101 (100%)	-0.17	0 100 100	19, 34, 53, 69	0
17	2V	101/101 (100%)	0.07	0 100 100	36, 63, 74, 78	0
18	1W	112/113 (99%)	-0.01	0 100 100	21, 26, 48, 71	0
18	2W	112/113 (99%)	0.23	1 (0%) 84 80	33, 44, 59, 84	0
19	1X	95/96 (98%)	-0.09	0 100 100	19, 31, 53, 75	0
19	2X	95/96 (98%)	0.00	0 100 100	40, 53, 64, 72	0
20	1Y	107/110 (97%)	-0.18	0 100 100	29, 43, 61, 72	0
20	2Y	107/110 (97%)	0.33	2 (1%) 66 59	54, 65, 74, 78	0
21	1Z	154/206 (74%)	0.07	3 (1%) 66 59	35, 57, 79, 85	0
21	2Z	160/206 (77%)	1.33	40 (25%) 0 0	61, 75, 84, 91	0
22	10	83/85 (97%)	0.25	5 (6%) 21 14	18, 31, 51, 56	0
22	20	83/85 (97%)	0.72	9 (10%) 5 3	36, 58, 69, 74	0
23	11	97/98 (98%)	0.21	1 (1%) 82 77	20, 38, 62, 70	0
23	21	97/98 (98%)	0.42	5 (5%) 27 18	35, 50, 68, 73	0
24	12	70/72 (97%)	-0.08	0 100 100	29, 41, 53, 64	0
24	22	70/72 (97%)	-0.09	0 100 100	47, 62, 70, 73	0
25	13	59/60 (98%)	-0.11	0 100 100	19, 31, 54, 72	0
25	23	59/60 (98%)	1.12	10 (16%) 1 1	48, 58, 70, 76	0
26	14	69/71 (97%)	-0.00	2 (2%) 51 41	43, 65, 83, 84	0
26	24	69/71 (97%)	-0.02	3 (4%) 35 25	67, 77, 86, 87	0
27	15	59/60 (98%)	-0.02	1 (1%) 70 63	14, 28, 41, 50	0
27	25	59/60 (98%)	0.09	1 (1%) 70 63	32, 46, 56, 64	0
28	16	53/54 (98%)	0.16	1 (1%) 66 59	27, 36, 50, 54	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	26	53/54 (98%)	0.90	6 (11%) 5 3	42, 54, 67, 68	0
29	17	48/49 (97%)	0.13	1 (2%) 63 54	16, 21, 50, 60	0
29	27	48/49 (97%)	0.16	0 100 100	24, 35, 51, 60	0
30	18	64/65 (98%)	0.21	1 (1%) 72 66	21, 27, 37, 55	0
30	28	64/65 (98%)	1.63	18 (28%) 0 0	40, 49, 58, 68	0
31	19	37/37 (100%)	0.55	0 100 100	22, 33, 50, 55	0
31	29	37/37 (100%)	1.50	11 (29%) 0 0	53, 62, 71, 75	0
32	1a	1488/1521 (97%)	0.03	9 (0%) 89 86	32, 59, 86, 102	0
32	2a	1491/1521 (98%)	0.13	28 (1%) 66 59	43, 69, 89, 101	0
33	1b	231/256 (90%)	0.59	15 (6%) 18 11	59, 73, 82, 85	0
33	2b	231/256 (90%)	1.30	57 (24%) 0 0	64, 79, 85, 90	0
34	1c	206/239 (86%)	0.63	21 (10%) 6 3	51, 66, 74, 80	0
34	2c	206/239 (86%)	1.46	63 (30%) 0 0	66, 78, 82, 85	0
35	1d	208/209 (99%)	0.50	11 (5%) 26 17	50, 64, 76, 83	0
35	2d	208/209 (99%)	0.60	13 (6%) 20 12	53, 62, 72, 81	0
36	1e	148/162 (91%)	0.40	6 (4%) 37 27	48, 60, 70, 78	0
36	2e	148/162 (91%)	0.97	24 (16%) 1 1	58, 71, 79, 86	0
37	1f	100/101 (99%)	0.10	0 100 100	48, 60, 69, 70	0
37	2f	100/101 (99%)	0.08	1 (1%) 82 77	51, 63, 70, 76	0
38	1g	155/156 (99%)	0.43	16 (10%) 6 3	51, 62, 74, 88	0
38	2g	155/156 (99%)	0.79	19 (12%) 4 2	62, 71, 78, 84	0
39	1h	137/138 (99%)	0.29	4 (2%) 51 41	48, 61, 67, 72	0
39	2h	137/138 (99%)	0.68	14 (10%) 6 3	64, 71, 77, 85	0
40	1i	127/128 (99%)	1.23	29 (22%) 0 0	46, 69, 77, 83	0
40	2i	127/128 (99%)	2.35	69 (54%) 0 0	68, 77, 82, 88	0
41	1j	97/105 (92%)	1.18	25 (25%) 0 0	52, 71, 78, 83	0
41	2j	96/105 (91%)	1.82	37 (38%) 0 0	70, 78, 85, 87	0
42	1k	114/129 (88%)	0.26	1 (0%) 84 80	40, 58, 72, 79	0
42	2k	114/129 (88%)	0.45	7 (6%) 21 13	49, 66, 74, 78	0
43	1l	121/132 (91%)	0.01	0 100 100	33, 47, 59, 66	0
43	2l	121/132 (91%)	0.53	8 (6%) 18 11	53, 61, 71, 75	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	1m	123/126 (97%)	0.35	9 (7%) 15 8	47, 59, 70, 74	0
44	2m	122/126 (96%)	0.61	17 (13%) 2 1	62, 75, 81, 85	0
45	1n	60/61 (98%)	1.05	10 (16%) 1 1	50, 59, 67, 71	0
45	2n	60/61 (98%)	2.95	41 (68%) 0 0	68, 77, 81, 87	0
46	1o	88/89 (98%)	0.13	2 (2%) 60 51	44, 59, 70, 75	0
46	2o	88/89 (98%)	-0.09	1 (1%) 80 75	53, 65, 74, 75	0
47	1p	82/88 (93%)	0.50	5 (6%) 21 13	51, 61, 70, 75	0
47	2p	82/88 (93%)	0.29	1 (1%) 79 73	55, 62, 71, 75	0
48	1q	99/105 (94%)	0.34	3 (3%) 50 40	47, 59, 72, 75	0
48	2q	99/105 (94%)	0.98	20 (20%) 1 0	55, 65, 73, 75	0
49	1r	68/88 (77%)	0.34	4 (5%) 22 14	48, 61, 71, 73	0
49	2r	68/88 (77%)	0.00	2 (2%) 51 41	57, 63, 73, 77	0
50	1s	83/93 (89%)	0.26	1 (1%) 79 73	49, 64, 73, 77	0
50	2s	83/93 (89%)	0.80	16 (19%) 1 0	71, 78, 84, 87	0
51	1t	96/106 (90%)	0.70	14 (14%) 2 1	50, 64, 73, 78	0
51	2t	96/106 (90%)	1.18	18 (18%) 1 1	52, 63, 76, 79	0
52	1u	23/27 (85%)	1.35	4 (17%) 1 1	52, 59, 63, 70	0
52	2u	23/27 (85%)	2.20	12 (52%) 0 0	67, 73, 80, 80	0
53	1v	13/24 (54%)	1.10	3 (23%) 0 0	42, 56, 81, 90	0
53	2v	13/24 (54%)	1.10	2 (15%) 2 1	59, 74, 91, 97	0
54	1w	67/76 (88%)	0.14	5 (7%) 14 8	32, 82, 93, 96	0
54	1y	67/76 (88%)	0.36	5 (7%) 14 8	28, 88, 96, 100	0
54	2w	65/76 (85%)	0.25	3 (4%) 32 22	54, 87, 95, 99	0
54	2y	66/76 (86%)	0.57	7 (10%) 6 3	49, 90, 94, 97	0
55	1x	72/77 (93%)	-0.08	0 100 100	32, 58, 76, 85	0
55	2x	72/77 (93%)	-0.14	0 100 100	45, 71, 81, 83	0
All	All	20875/21748 (95%)	0.29	1010 (4%) 30 21	13, 57, 83, 102	0

All (1010) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
45	2n	34	TYR	8.6
44	2m	123	ALA	7.6

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Mol	Chain	Res	Type	RSRZ
40	2i	14	VAL	7.4
38	2g	82	GLY	7.1
44	1m	124	PRO	7.1
45	2n	25	VAL	7.0
45	2n	39	LEU	6.9
40	2i	28	VAL	6.9
38	1g	82	GLY	6.8
41	2j	55	LYS	6.7
45	2n	38	GLY	6.6
31	29	37	GLY	6.5
45	2n	2	ALA	6.5
44	2m	124	PRO	6.2
41	1j	10	GLY	6.2
41	2j	47	PHE	6.1
21	2Z	144	LEU	6.0
21	2Z	170	THR	5.7
40	2i	114	TYR	5.7
33	2b	211	ILE	5.5
34	2c	201	TYR	5.5
41	2j	48	THR	5.4
33	2b	201	ILE	5.4
36	2e	10	MET	5.4
34	2c	188	LEU	5.3
40	2i	36	TYR	5.3
44	1m	123	ALA	5.2
11	2P	79	ARG	5.2
44	2m	102	ARG	5.2
30	28	16	ILE	5.2
21	2Z	121	HIS	5.2
40	2i	9	ARG	5.1
41	2j	63	PHE	5.1
36	2e	31	LEU	5.0
41	2j	50	ILE	5.0
33	2b	165	VAL	5.0
34	2c	171	GLY	4.9
33	2b	210	SER	4.9
7	2H	45	VAL	4.9
12	2Q	104	PHE	4.9
40	2i	27	THR	4.9
40	2i	115	GLY	4.9
45	2n	35	ARG	4.8
7	2H	133	VAL	4.8

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Mol	Chain	Res	Type	RSRZ
40	2i	66	ARG	4.8
38	1g	84	ASN	4.8
1	2A	229	A	4.8
40	2i	7	THR	4.8
45	2n	11	LYS	4.8
32	2a	1034	G	4.7
52	2u	15	ARG	4.7
7	2H	7	LEU	4.7
40	2i	62	TYR	4.7
40	2i	19	LEU	4.7
45	2n	12	ARG	4.7
45	2n	61	TRP	4.6
33	2b	187	LEU	4.6
41	2j	54	PHE	4.6
36	2e	11	ILE	4.6
41	2j	62	HIS	4.6
40	2i	108	VAL	4.6
41	2j	65	LEU	4.5
45	2n	37	PHE	4.5
40	2i	125	TYR	4.5
40	2i	64	THR	4.5
54	2w	71	G	4.5
21	2Z	149	SER	4.5
34	2c	7	PRO	4.4
38	1g	85	TYR	4.4
11	2P	118	GLY	4.4
22	10	5	LYS	4.4
7	2H	113	VAL	4.4
32	2a	1030(B)	C	4.4
40	2i	117	HIS	4.3
33	2b	164	VAL	4.3
51	2t	9	ASN	4.3
34	2c	182	ILE	4.3
33	2b	77	ALA	4.3
48	2q	38	ARG	4.3
45	2n	13	THR	4.2
54	1w	70	G	4.2
22	10	6	GLY	4.2
34	2c	170	GLN	4.2
34	2c	157	ILE	4.2
39	2h	133	LEU	4.2
21	2Z	126	VAL	4.2

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Mol	Chain	Res	Type	RSRZ
45	2n	7	ILE	4.2
34	2c	6	HIS	4.2
32	2a	1033	G	4.2
33	2b	163	PHE	4.2
40	2i	15	ALA	4.2
40	2i	110	GLU	4.2
41	2j	46	ARG	4.2
34	1c	196	LEU	4.1
40	2i	26	VAL	4.1
41	2j	52	GLY	4.1
33	2b	71	VAL	4.1
30	28	65	GLU	4.1
34	2c	8	ILE	4.1
53	2v	12	A	4.1
45	2n	31	ARG	4.1
40	2i	127	LYS	4.1
36	2e	20	GLN	4.0
32	2a	1257	U	4.0
12	2Q	22	LYS	4.0
21	2Z	51	ALA	4.0
40	1i	106	ALA	4.0
52	2u	16	GLY	4.0
7	2H	2	SER	4.0
44	2m	90	LEU	4.0
21	1Z	149	SER	4.0
12	2Q	103	MET	4.0
31	29	17	ILE	4.0
11	2P	78	PRO	4.0
34	2c	23	TYR	4.0
34	2c	167	TRP	3.9
41	2j	56	HIS	3.9
52	2u	6	ARG	3.9
40	2i	13	ALA	3.9
34	2c	198	VAL	3.9
3	1D	276	LYS	3.9
40	1i	65	VAL	3.9
40	2i	65	VAL	3.9
30	28	61	LEU	3.8
32	2a	1035	A	3.8
28	26	54	ILE	3.8
34	2c	124	ILE	3.8
47	1p	1	MET	3.8

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Mol	Chain	Res	Type	RSRZ
21	2Z	48	PHE	3.8
45	2n	22	THR	3.8
52	2u	11	GLY	3.8
40	2i	72	GLY	3.8
13	2R	69	ASP	3.8
11	2P	123	LEU	3.8
44	2m	122	LYS	3.7
7	2H	103	LEU	3.7
36	2e	18	ARG	3.7
44	2m	104	ARG	3.7
33	2b	200	ILE	3.7
41	2j	58	ASP	3.7
7	2H	76	VAL	3.7
45	2n	57	ARG	3.7
14	2S	26	LEU	3.7
38	2g	81	GLY	3.7
40	2i	124	GLN	3.7
52	2u	14	TRP	3.7
40	1i	76	ALA	3.7
45	2n	54	PRO	3.7
23	11	2	SER	3.7
41	2j	10	GLY	3.6
7	2H	141	VAL	3.6
11	2P	106	LEU	3.6
45	2n	58	LYS	3.6
36	2e	12	LEU	3.6
31	29	15	LYS	3.6
25	23	51	ALA	3.6
11	2P	85	LEU	3.6
28	26	11	LEU	3.6
34	1c	15	THR	3.6
38	1g	80	VAL	3.6
34	2c	187	ALA	3.6
1	1A	931	C	3.6
36	2e	8	GLU	3.6
34	2c	184	TYR	3.6
38	2g	154	TYR	3.6
41	1j	98	ILE	3.6
35	2d	47	ARG	3.6
40	2i	4	TYR	3.6
40	2i	126	SER	3.6
7	2H	115	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
40	2i	109	VAL	3.6
34	2c	12	LEU	3.5
22	20	7	LEU	3.5
41	1j	35	SER	3.5
51	1t	29	LYS	3.5
33	2b	120	ALA	3.5
34	2c	189	ALA	3.5
45	2n	6	LEU	3.5
11	2P	75	ILE	3.5
34	2c	202	ILE	3.5
33	2b	152	PHE	3.5
38	1g	79	ARG	3.5
54	2w	70	G	3.5
34	1c	179	ARG	3.5
34	2c	179	ARG	3.5
33	2b	80	ILE	3.5
34	2c	60	ALA	3.5
14	2S	32	LEU	3.5
22	20	2	ALA	3.5
40	2i	5	TYR	3.5
7	2H	70	THR	3.4
21	1Z	169	GLU	3.4
7	2H	94	TYR	3.4
36	2e	119	LEU	3.4
45	2n	53	LEU	3.4
7	2H	114	VAL	3.4
33	2b	108	ILE	3.4
34	2c	14	ILE	3.4
38	1g	83	ALA	3.4
33	2b	16	HIS	3.4
44	2m	120	LYS	3.4
45	1n	2	ALA	3.4
35	1d	167	GLY	3.4
21	2Z	125	LEU	3.4
7	2H	36	PRO	3.4
14	2S	14	VAL	3.4
34	2c	186	PHE	3.4
35	1d	166	LYS	3.4
36	2e	16	THR	3.4
53	2v	24	A	3.4
11	2P	70	GLN	3.4
43	2l	5	PRO	3.4

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Mol	Chain	Res	Type	RSRZ
39	2h	83	ILE	3.4
21	2Z	1	MET	3.4
34	2c	163	ALA	3.4
45	2n	29	ARG	3.3
38	2g	84	ASN	3.3
45	2n	17	LYS	3.3
7	2H	105	LEU	3.3
41	2j	98	ILE	3.3
33	2b	48	MET	3.3
52	2u	17	THR	3.3
7	2H	96	ALA	3.3
33	2b	70	PHE	3.3
40	2i	17	VAL	3.3
40	2i	12	GLU	3.3
51	2t	73	HIS	3.3
22	10	4	LYS	3.3
11	2P	125	VAL	3.3
38	2g	156	TRP	3.3
34	2c	154	SER	3.3
1	1A	1140	U	3.3
38	1g	81	GLY	3.3
38	2g	4	ARG	3.3
54	1w	71	G	3.3
40	2i	121	ARG	3.3
7	2H	6	ARG	3.3
41	1j	65	LEU	3.3
40	1i	113	LYS	3.3
48	1q	28	PRO	3.3
7	2H	3	ARG	3.3
28	26	10	LEU	3.3
33	2b	31	TYR	3.2
45	2n	33	VAL	3.2
41	2j	85	LEU	3.2
41	1j	62	HIS	3.2
40	2i	81	ILE	3.2
21	2Z	139	VAL	3.2
44	2m	88	ARG	3.2
45	2n	56	VAL	3.2
38	1g	156	TRP	3.2
45	2n	36	PHE	3.2
34	2c	200	ALA	3.2
45	2n	30	ALA	3.2

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Mol	Chain	Res	Type	RSRZ
7	2H	159	GLU	3.2
39	2h	2	LEU	3.2
33	2b	197	VAL	3.2
45	2n	60	SER	3.2
54	1w	3	C	3.2
41	2j	44	VAL	3.2
43	2l	18	VAL	3.2
45	2n	15	LYS	3.2
21	2Z	83	PRO	3.2
41	2j	71	LEU	3.2
33	2b	19	HIS	3.2
52	1u	6	ARG	3.2
30	28	64	TYR	3.2
45	2n	14	PRO	3.2
32	2a	1149	C	3.2
34	2c	5	ILE	3.1
43	2l	7	ILE	3.1
41	2j	49	VAL	3.1
33	2b	135	GLN	3.1
35	1d	168	ARG	3.1
45	2n	23	ARG	3.1
54	1w	72	C	3.1
40	1i	117	HIS	3.1
40	2i	116	LYS	3.1
7	2H	52	VAL	3.1
21	2Z	150	LEU	3.1
35	2d	176	LEU	3.1
36	2e	9	LYS	3.1
16	2U	90	VAL	3.1
21	2Z	47	VAL	3.1
21	2Z	141	VAL	3.1
48	2q	23	VAL	3.1
33	2b	121	LEU	3.1
38	1g	16	LEU	3.1
34	1c	193	TYR	3.1
33	1b	186	ALA	3.1
34	2c	37	GLN	3.1
40	1i	70	LYS	3.1
51	2t	24	LEU	3.1
44	2m	97	PRO	3.1
34	1c	14	ILE	3.1
36	2e	22	GLY	3.1

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Mol	Chain	Res	Type	RSRZ
1	2A	2155	G	3.1
48	2q	22	LEU	3.1
36	2e	84	PHE	3.1
7	2H	162	ILE	3.1
52	2u	13	ILE	3.1
1	2A	2125	G	3.1
21	2Z	140	ASP	3.1
12	2Q	19	GLY	3.1
21	2Z	122	ARG	3.1
34	2c	159	GLY	3.1
40	2i	90	PRO	3.1
7	2H	35	VAL	3.1
11	2P	65	ARG	3.1
36	2e	25	ARG	3.1
1	1A	1114	G	3.1
33	2b	66	GLY	3.1
40	2i	63	ILE	3.1
44	2m	105	THR	3.1
11	2P	83	VAL	3.0
50	2s	45	VAL	3.0
41	1j	97	GLU	3.0
31	29	23	VAL	3.0
11	2P	80	TYR	3.0
32	2a	1001(A)	G	3.0
32	2a	1002	G	3.0
40	2i	18	PHE	3.0
51	2t	63	ILE	3.0
1	2A	888	C	3.0
40	2i	42	ARG	3.0
33	2b	146	GLN	3.0
41	2j	74	ILE	3.0
14	2S	46	VAL	3.0
48	2q	30	PRO	3.0
32	2a	1116	C	3.0
34	2c	33	LEU	3.0
45	1n	57	ARG	3.0
40	1i	47	LEU	3.0
41	1j	71	LEU	3.0
34	1c	13	GLY	3.0
7	2H	131	VAL	3.0
50	2s	70	LYS	3.0
32	1a	1002	G	3.0

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Mol	Chain	Res	Type	RSRZ
34	2c	206	GLU	3.0
43	2l	64	TYR	3.0
11	2P	115	LEU	3.0
33	2b	102	LEU	3.0
40	2i	37	PHE	3.0
40	1i	112	LYS	3.0
35	2d	198	VAL	3.0
34	2c	149	ALA	3.0
33	1b	187	LEU	3.0
33	2b	94	ASN	3.0
21	2Z	79	ARG	3.0
12	2Q	40	ALA	2.9
33	2b	92	TYR	2.9
41	1j	8	LEU	2.9
44	2m	78	ILE	2.9
33	2b	186	ALA	2.9
34	2c	160	ALA	2.9
14	2S	33	LYS	2.9
14	2S	93	LYS	2.9
33	2b	136	VAL	2.9
41	2j	51	ARG	2.9
7	2H	168	PRO	2.9
33	2b	142	LEU	2.9
51	2t	72	LEU	2.9
40	1i	4	TYR	2.9
40	2i	16	ARG	2.9
33	2b	215	LEU	2.9
50	2s	80	TYR	2.9
34	2c	39	ILE	2.9
12	2Q	102	VAL	2.9
36	1e	10	MET	2.9
6	2G	3	LEU	2.9
54	2y	36	A	2.9
21	2Z	137	ILE	2.9
48	2q	21	VAL	2.9
52	1u	17	THR	2.9
12	2Q	28	ALA	2.9
34	2c	196	LEU	2.9
22	10	3	HIS	2.9
22	20	3	HIS	2.9
1	2A	652(B)	A	2.9
7	2H	164	TYR	2.9

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Mol	Chain	Res	Type	RSRZ
41	1j	5	ARG	2.9
54	2y	64	A	2.9
51	2t	55	ILE	2.9
40	2i	35	GLU	2.9
1	1A	932	C	2.9
7	2H	71	LEU	2.9
40	2i	123	PRO	2.9
28	26	20	ASN	2.9
12	2Q	97	VAL	2.9
51	2t	29	LYS	2.9
50	2s	79	THR	2.9
25	23	29	ARG	2.9
35	1d	170	VAL	2.9
43	2l	55	VAL	2.9
48	2q	9	VAL	2.9
42	2k	50	TYR	2.8
26	24	49	PHE	2.8
48	2q	33	GLY	2.8
7	2H	145	ALA	2.8
35	2d	160	GLN	2.8
7	2H	10	PRO	2.8
7	2H	102	ALA	2.8
41	1j	59	SER	2.8
51	2t	64	ASP	2.8
34	2c	4	LYS	2.8
32	1a	1257	U	2.8
34	2c	174	PRO	2.8
33	2b	122	PHE	2.8
7	2H	169	VAL	2.8
34	1c	18	TRP	2.8
21	2Z	138	GLU	2.8
38	2g	86	GLN	2.8
38	2g	79	ARG	2.8
41	2j	57	LYS	2.8
51	1t	74	LYS	2.8
7	2H	89	ILE	2.8
12	2Q	33	GLY	2.8
33	1b	200	ILE	2.8
40	2i	32	ASP	2.8
21	2Z	91	LEU	2.8
32	2a	1003	G	2.8
33	2b	69	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
41	2j	66	ARG	2.8
41	2j	95	GLU	2.8
54	2y	65	G	2.8
28	26	50	ARG	2.8
33	1b	226	ARG	2.8
51	2t	80	ARG	2.8
51	1t	14	LYS	2.8
11	2P	51	PHE	2.8
25	23	54	VAL	2.8
21	2Z	80	ARG	2.8
38	2g	115	ARG	2.8
52	2u	9	ARG	2.8
34	1c	8	ILE	2.8
44	2m	100	GLY	2.8
11	2P	58	THR	2.8
38	2g	16	LEU	2.8
40	2i	79	LEU	2.8
41	1j	60	ARG	2.8
1	1A	942	A	2.8
1	1A	1110	C	2.8
40	1i	8	GLY	2.8
40	2i	67	GLY	2.8
12	2Q	66	ILE	2.8
7	2H	49	VAL	2.8
11	2P	126	VAL	2.8
21	2Z	128	VAL	2.8
26	14	46	GLN	2.8
33	2b	123	ALA	2.8
33	2b	161	ALA	2.8
26	14	54	GLY	2.7
33	2b	214	ILE	2.7
41	1j	45	ARG	2.7
43	2l	32	PHE	2.7
44	2m	121	LYS	2.7
11	2P	109	GLY	2.7
40	2i	111	ARG	2.7
40	1i	18	PHE	2.7
33	2b	184	VAL	2.7
11	2P	81	GLN	2.7
51	1t	18	GLN	2.7
40	2i	61	ALA	2.7
51	1t	12	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
34	2c	185	GLY	2.7
14	2S	58	LEU	2.7
33	2b	81	VAL	2.7
34	2c	32	LEU	2.7
40	1i	75	ASP	2.7
51	2t	59	ALA	2.7
18	2W	112	GLY	2.7
35	2d	167	GLY	2.7
21	2Z	57	ILE	2.7
40	1i	81	ILE	2.7
7	2H	77	LYS	2.7
14	2S	13	ARG	2.7
42	2k	126	ARG	2.7
36	2e	17	ALA	2.7
40	2i	106	ALA	2.7
22	20	52	GLY	2.7
1	2A	2127	G	2.7
40	2i	33	PHE	2.7
32	1a	1030	C	2.7
6	2G	2	PRO	2.7
34	2c	172	ARG	2.7
51	2t	83	ARG	2.7
50	2s	83	HIS	2.7
20	2Y	5	MET	2.7
33	1b	163	PHE	2.7
6	2G	39	ILE	2.7
40	2i	10	ARG	2.7
22	10	7	LEU	2.7
33	1b	165	VAL	2.7
21	2Z	106	GLY	2.7
34	1c	10	PHE	2.7
35	1d	165	MET	2.7
27	25	29	THR	2.7
38	1g	4	ARG	2.7
51	2t	26	ASN	2.7
30	28	49	VAL	2.7
41	2j	40	LEU	2.7
36	2e	98	THR	2.7
7	2H	128	PRO	2.7
51	2t	66	ALA	2.7
35	2d	49	ARG	2.7
1	2A	2173	A	2.6

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Mol	Chain	Res	Type	RSRZ
28	16	54	ILE	2.6
40	1i	114	TYR	2.6
34	1c	178	LEU	2.6
40	2i	56	LEU	2.6
41	2j	72	VAL	2.6
33	2b	203	GLY	2.6
34	2c	13	GLY	2.6
45	2n	55	GLY	2.6
33	1b	207	ALA	2.6
50	2s	36	ARG	2.6
51	2t	25	ARG	2.6
41	2j	64	GLU	2.6
11	2P	68	GLN	2.6
40	1i	64	THR	2.6
40	2i	82	ALA	2.6
30	28	29	LYS	2.6
38	1g	153	HIS	2.6
39	2h	111	ILE	2.6
9	2N	45	ASN	2.6
34	2c	158	GLY	2.6
46	2o	60	VAL	2.6
34	1c	177	THR	2.6
45	2n	42	ILE	2.6
11	2P	59	LEU	2.6
40	1i	19	LEU	2.6
40	2i	120	ARG	2.6
4	2E	10	GLY	2.6
8	2I	19	VAL	2.6
40	2i	105	ASP	2.6
1	1A	1142	A	2.6
40	2i	52	ALA	2.6
31	29	26	ILE	2.6
25	23	53	LEU	2.6
44	1m	90	LEU	2.6
7	2H	13	LYS	2.6
34	1c	206	GLU	2.6
11	2P	91	PHE	2.6
41	2j	42	THR	2.6
54	2y	53	G	2.6
34	2c	21	ARG	2.6
38	1g	78	ARG	2.6
30	28	25	MET	2.6

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Mol	Chain	Res	Type	RSRZ
22	20	75	LEU	2.6
33	1b	27	LYS	2.6
38	2g	32	ARG	2.6
40	2i	83	ARG	2.6
45	2n	41	ARG	2.6
30	28	15	LYS	2.6
31	29	16	VAL	2.6
38	2g	85	TYR	2.6
41	1j	64	GLU	2.6
33	2b	188	ALA	2.6
41	2j	43	ARG	2.6
46	1o	87	ILE	2.6
7	2H	144	VAL	2.6
40	1i	36	TYR	2.6
42	2k	25	TYR	2.6
11	2P	76	LYS	2.6
11	2P	114	ILE	2.5
33	2b	83	MET	2.5
49	2r	85	LEU	2.5
7	2H	17	VAL	2.5
40	1i	111	ARG	2.5
45	1n	58	LYS	2.5
43	2l	68	ALA	2.5
7	2H	34	GLU	2.5
7	2H	108	GLY	2.5
7	2H	116	GLU	2.5
41	1j	95	GLU	2.5
45	2n	4	LYS	2.5
7	2H	100	GLY	2.5
15	2T	52	ILE	2.5
30	28	20	GLY	2.5
51	2t	62	LEU	2.5
7	2H	84	SER	2.5
32	2a	1250	A	2.5
40	2i	92	TYR	2.5
9	2N	44	PRO	2.5
38	2g	113	GLU	2.5
33	2b	101	MET	2.5
39	2h	9	MET	2.5
41	2j	34	VAL	2.5
45	1n	56	VAL	2.5
33	1b	195	ASP	2.5

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Mol	Chain	Res	Type	RSRZ
14	2S	37	ALA	2.5
36	1e	132	ALA	2.5
7	2H	151	ILE	2.5
25	23	26	LEU	2.5
35	2d	94	LEU	2.5
44	1m	56	LEU	2.5
35	2d	56	VAL	2.5
14	2S	111	GLU	2.5
21	2Z	72	ARG	2.5
21	2Z	50	GLN	2.5
42	2k	59	TYR	2.5
38	2g	27	ILE	2.5
7	2H	74	ASN	2.5
33	1b	179	LYS	2.5
41	1j	36	GLY	2.5
48	2q	32	TYR	2.5
12	2Q	37	LEU	2.5
23	21	2	SER	2.5
30	28	2	PRO	2.5
1	2A	896	A	2.5
53	1v	13	A	2.5
28	26	42	TRP	2.5
30	28	34	TRP	2.5
7	2H	106	THR	2.5
38	2g	83	ALA	2.5
11	2P	88	LEU	2.5
14	2S	82	ILE	2.5
33	2b	127	ILE	2.5
41	2j	8	LEU	2.5
44	2m	66	LEU	2.5
7	2H	95	ARG	2.5
1	1A	934	A	2.5
21	2Z	156	LYS	2.5
34	2c	65	ALA	2.5
41	2j	32	ALA	2.5
34	2c	177	THR	2.5
34	1c	12	LEU	2.5
7	2H	123	PHE	2.4
1	1A	1141	A	2.4
39	2h	21	LYS	2.4
34	2c	41	GLY	2.4
53	1v	23	A	2.4

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Mol	Chain	Res	Type	RSRZ
7	2H	97	ARG	2.4
30	28	46	ARG	2.4
40	1i	50	LEU	2.4
5	2F	183	VAL	2.4
34	2c	10	PHE	2.4
33	2b	195	ASP	2.4
7	2H	167	GLU	2.4
41	1j	9	ARG	2.4
25	23	23	LEU	2.4
31	29	25	VAL	2.4
39	2h	15	ASN	2.4
22	20	8	GLY	2.4
31	29	13	LYS	2.4
39	1h	83	ILE	2.4
21	2Z	96	VAL	2.4
36	2e	45	PHE	2.4
39	1h	93	VAL	2.4
48	2q	35	VAL	2.4
32	2a	1030(C)	G	2.4
32	2a	1224	G	2.4
51	2t	68	LYS	2.4
44	1m	4	ILE	2.4
50	1s	71	LEU	2.4
51	2t	13	LEU	2.4
22	20	69	PHE	2.4
34	2c	55	VAL	2.4
26	24	54	GLY	2.4
3	1D	275	LYS	2.4
11	2P	119	GLU	2.4
12	2Q	38	GLU	2.4
51	1t	9	ASN	2.4
21	2Z	124	ILE	2.4
32	2a	1030(A)	G	2.4
33	2b	185	ILE	2.4
45	2n	49	HIS	2.4
35	2d	20	TYR	2.4
41	1j	66	ARG	2.4
48	2q	11	VAL	2.4
40	2i	38	GLN	2.4
36	1e	89	ILE	2.4
36	2e	13	ILE	2.4
48	2q	84	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
1	2A	883	G	2.4
36	2e	27	ARG	2.4
33	2b	72	GLY	2.4
38	1g	154	TYR	2.4
50	2s	52	TYR	2.4
32	1a	1447	A	2.4
14	2S	20	ARG	2.4
33	2b	40	HIS	2.4
38	2g	78	ARG	2.4
14	2S	87	PHE	2.4
7	2H	82	GLY	2.4
11	2P	110	TYR	2.4
33	1b	167	PRO	2.4
33	2b	131	PRO	2.4
21	2Z	87	ASP	2.4
32	2a	973	G	2.4
32	2a	1202	G	2.4
40	1i	119	ALA	2.4
23	21	98	LEU	2.4
49	1r	76	LEU	2.4
47	1p	2	VAL	2.3
48	2q	42	TYR	2.3
29	17	48	LYS	2.3
48	2q	7	THR	2.3
33	2b	207	ALA	2.3
34	2c	164	ARG	2.3
50	2s	38	SER	2.3
36	1e	81	GLU	2.3
40	2i	80	GLY	2.3
45	2n	51	GLY	2.3
54	1y	56	C	2.3
21	2Z	86	VAL	2.3
44	1m	105	THR	2.3
33	1b	215	LEU	2.3
7	2H	119	GLU	2.3
7	2H	124	GLU	2.3
50	2s	35	SER	2.3
21	2Z	88	PHE	2.3
52	1u	16	GLY	2.3
1	2A	2146	C	2.3
23	21	62	VAL	2.3
27	15	60	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
41	1j	72	VAL	2.3
40	1i	15	ALA	2.3
40	2i	45	ALA	2.3
6	2G	140	ILE	2.3
21	2Z	59	LEU	2.3
34	2c	178	LEU	2.3
39	2h	17	THR	2.3
48	2q	31	LEU	2.3
49	1r	78	LEU	2.3
14	2S	12	PHE	2.3
41	1j	7	LYS	2.3
41	1j	11	PHE	2.3
1	1A	933	C	2.3
32	2a	1249	C	2.3
45	1n	41	ARG	2.3
32	1a	204	U	2.3
32	2a	1150	U	2.3
7	2H	41	MET	2.3
26	24	57	GLU	2.3
33	2b	118	LEU	2.3
34	2c	175	LEU	2.3
41	1j	63	PHE	2.3
7	2H	43	VAL	2.3
32	2a	1251	A	2.3
54	1y	35	A	2.3
11	2P	97	PRO	2.3
50	2s	42	PRO	2.3
34	2c	145	GLY	2.3
34	2c	3	ASN	2.3
51	2t	70	SER	2.3
23	21	30	VAL	2.3
49	2r	46	GLU	2.3
32	2a	1112	C	2.3
14	2S	4	LEU	2.3
34	1c	201	TYR	2.3
45	2n	10	ALA	2.3
54	1y	1	G	2.3
35	1d	101	LEU	2.3
5	2F	131	GLY	2.3
22	20	76	GLY	2.3
36	2e	64	ARG	2.3
33	2b	76	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
7	2H	138	LYS	2.3
45	2n	8	GLU	2.3
45	2n	50	LYS	2.3
40	2i	49	PRO	2.3
1	1A	935	C	2.3
7	2H	132	ARG	2.3
9	2N	74	ARG	2.3
14	2S	3	ARG	2.3
34	2c	43	LEU	2.3
44	2m	99	ARG	2.3
48	2q	88	TYR	2.3
51	1t	24	LEU	2.3
54	2w	72	C	2.3
21	1Z	147	GLY	2.3
14	2S	112	PHE	2.3
40	1i	118	LYS	2.3
1	1A	1139	G	2.3
11	2P	74	GLU	2.3
12	2Q	12	GLN	2.3
51	1t	70	SER	2.2
12	2Q	17	LEU	2.2
12	2Q	39	PRO	2.2
14	2S	110	LEU	2.2
33	1b	61	LEU	2.2
35	1d	135	LEU	2.2
36	2e	43	LEU	2.2
52	1u	14	TRP	2.2
1	2A	2128	C	2.2
7	2H	24	VAL	2.2
33	2b	67	THR	2.2
48	2q	39	SER	2.2
32	1a	1532	U	2.2
45	1n	50	LYS	2.2
36	1e	86	ALA	2.2
34	1c	57	ILE	2.2
34	2c	173	VAL	2.2
36	2e	90	VAL	2.2
48	2q	10	VAL	2.2
30	28	19	SER	2.2
1	1A	1112	U	2.2
21	2Z	148	ASP	2.2
34	2c	183	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
45	2n	32	SER	2.2
4	2E	52	LEU	2.2
32	2a	1117	G	2.2
50	2s	84	GLY	2.2
54	1y	20	U	2.2
33	2b	17	PHE	2.2
33	2b	32	ILE	2.2
34	1c	124	ILE	2.2
38	2g	42	ILE	2.2
48	2q	44	ALA	2.2
49	1r	38	GLU	2.2
44	1m	87	TYR	2.2
51	1t	68	LYS	2.2
11	2P	112	LEU	2.2
41	2j	59	SER	2.2
30	18	65	GLU	2.2
44	2m	96	LEU	2.2
7	2H	148	ILE	2.2
44	1m	97	PRO	2.2
34	2c	30	ARG	2.2
9	2N	103	VAL	2.2
5	2F	196	LEU	2.2
35	1d	179	GLU	2.2
52	2u	5	ASP	2.2
34	2c	15	THR	2.2
38	1g	77	SER	2.2
40	1i	46	ALA	2.2
46	1o	65	ARG	2.2
51	1t	8	ARG	2.2
48	2q	87	LYS	2.2
51	1t	63	ILE	2.2
7	2H	83	TYR	2.2
40	1i	109	VAL	2.2
11	2P	92	GLU	2.2
11	2P	93	GLY	2.2
12	2Q	15	GLY	2.2
6	2G	97	ASP	2.2
7	2H	51	ARG	2.2
21	2Z	155	LEU	2.2
30	28	21	LYS	2.2
39	2h	84	ARG	2.2
40	2i	85	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
39	2h	16	ALA	2.2
21	2Z	98	MET	2.2
38	1g	86	GLN	2.2
52	2u	23	PRO	2.2
7	2H	85	LYS	2.2
33	2b	97	TRP	2.2
40	1i	110	GLU	2.2
34	1c	11	ARG	2.2
35	1d	3	ARG	2.2
38	1g	3	ARG	2.2
39	2h	91	ARG	2.2
35	1d	78	LEU	2.2
7	2H	122	THR	2.2
36	2e	19	MET	2.2
45	1n	49	HIS	2.2
14	2S	9	ARG	2.2
22	20	5	LYS	2.2
38	2g	80	VAL	2.2
34	2c	132	ARG	2.2
14	2S	41	ASP	2.2
39	1h	133	LEU	2.2
41	1j	90	LEU	2.2
45	2n	16	PHE	2.2
33	1b	71	VAL	2.2
41	2j	96	ILE	2.1
50	2s	53	ASN	2.1
30	28	3	LYS	2.1
32	1a	1003	G	2.1
42	2k	121	PRO	2.1
34	2c	176	HIS	2.1
41	2j	60	ARG	2.1
41	2j	87	THR	2.1
5	1F	89	VAL	2.1
15	2T	100	TYR	2.1
34	2c	193	TYR	2.1
36	2e	114	GLY	2.1
32	2a	1004	A	2.1
12	2Q	25	ASP	2.1
40	2i	11	LYS	2.1
45	1n	61	TRP	2.1
11	2P	101	VAL	2.1
42	2k	49	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
48	1q	7	THR	2.1
20	2Y	67	LEU	2.1
30	28	26	LYS	2.1
40	2i	47	LEU	2.1
7	2H	9	ILE	2.1
1	1A	1105	G	2.1
41	1j	48	THR	2.1
40	1i	125	TYR	2.1
7	2H	101	ARG	2.1
14	1S	20	ARG	2.1
31	29	12	ASP	2.1
11	2P	140	ALA	2.1
12	2Q	121	ALA	2.1
47	1p	7	ALA	2.1
1	2A	652(T)	C	2.1
11	2P	1	MET	2.1
50	2s	76	PRO	2.1
25	23	52	HIS	2.1
34	1c	64	VAL	2.1
40	2i	95	LYS	2.1
33	2b	190	THR	2.1
39	2h	10	LEU	2.1
41	1j	47	PHE	2.1
47	1p	25	ARG	2.1
47	2p	25	ARG	2.1
51	1t	62	LEU	2.1
32	1a	1001(A)	G	2.1
34	2c	162	GLN	2.1
40	2i	91	ASP	2.1
25	23	21	ALA	2.1
45	2n	59	ALA	2.1
6	2G	75	LYS	2.1
30	28	12	LYS	2.1
43	2l	31	PRO	2.1
44	2m	119	GLY	2.1
14	2S	28	VAL	2.1
40	1i	86	VAL	2.1
48	2q	43	LEU	2.1
41	1j	58	ASP	2.1
30	28	58	ILE	2.1
41	2j	38	ILE	2.1
7	2H	44	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
14	2S	85	VAL	2.1
32	2a	1039	C	2.1
32	2a	1114	C	2.1
39	1h	119	LEU	2.1
14	2S	92	TYR	2.1
21	2Z	9	TYR	2.1
31	29	2	LYS	2.1
31	29	24	TYR	2.1
40	2i	88	TYR	2.1
21	2Z	162	GLU	2.1
25	23	47	VAL	2.1
32	2a	1032	G	2.1
49	1r	39	VAL	2.1
32	2a	1252	A	2.1
50	2s	10	PHE	2.1
51	1t	72	LEU	2.1
53	1v	24	A	2.1
7	2H	72	ILE	2.1
15	2T	14	TYR	2.1
33	2b	68	ILE	2.1
34	1c	39	ILE	2.1
34	2c	57	ILE	2.1
37	2f	59	TYR	2.1
39	2h	80	ILE	2.1
41	2j	6	ILE	2.1
42	2k	89	ALA	2.1
50	2s	68	GLY	2.1
6	2G	70	VAL	2.1
7	2H	125	VAL	2.1
35	1d	133	VAL	2.1
35	2d	98	GLU	2.1
8	2I	137	PRO	2.1
40	1i	28	VAL	2.1
47	1p	21	VAL	2.1
21	2Z	70	LEU	2.0
40	2i	40	LEU	2.0
48	1q	98	LEU	2.0
54	1y	13	C	2.0
35	2d	209	ARG	2.0
38	2g	24	THR	2.0
40	2i	55	ALA	2.0
51	1t	80	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
33	1b	72	GLY	2.0
34	2c	26	LYS	2.0
6	2G	159	VAL	2.0
50	2s	30	LEU	2.0
11	2P	77	ARG	2.0
12	2Q	107	ALA	2.0
32	2a	1191	A	2.0
34	1c	189	ALA	2.0
11	2P	108	LYS	2.0
35	2d	207	TYR	2.0
44	1m	122	LYS	2.0
45	1n	17	LYS	2.0
54	2y	60	U	2.0
15	2T	1	MET	2.0
39	2h	19	VAL	2.0
15	2T	76	PHE	2.0
23	21	68	PRO	2.0
25	23	2	PRO	2.0
40	1i	37	PHE	2.0
42	1k	98	LEU	2.0
35	2d	168	ARG	2.0
34	1c	182	ILE	2.0
1	1A	2196	C	2.0
32	1a	1029	C	2.0
40	2i	30	GLY	2.0
54	1w	1	G	2.0
11	2P	60	MET	2.0
52	2u	24	ARG	2.0
7	2H	140	LYS	2.0
40	2i	43	ALA	2.0
1	2A	1026	U	2.0
32	2a	1036	G	2.0
36	1e	82	VAL	2.0
36	2e	120	THR	2.0
54	2y	1	G	2.0
54	2y	34	G	2.0
8	1I	1	MET	2.0
45	1n	16	PHE	2.0
52	2u	10	ARG	2.0
12	2Q	18	LYS	2.0
14	2S	83	LYS	2.0
21	2Z	5	LEU	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	0.76	0.28	85,93,105,123	0
54	5MU	1y	54	21/22	0.78	0.32	79,87,99,114	0
54	4SU	1y	8	20/21	0.80	0.20	91,96,103,105	0
54	PSU	2y	55	20/21	0.80	0.27	85,92,104,109	0
54	7MG	1w	46	24/25	0.82	0.15	76,87,106,118	0
54	5MU	2y	54	21/22	0.82	0.33	84,91,97,115	0
54	7MG	2w	46	24/25	0.83	0.14	78,92,98,107	0
54	7MG	2y	46	24/25	0.83	0.23	83,92,97,112	0
54	7MG	1y	46	24/25	0.84	0.22	86,94,99,108	0
54	4SU	2w	8	20/21	0.85	0.15	85,89,104,109	0
54	4SU	2y	8	20/21	0.85	0.14	83,95,104,112	0
54	MIA	2y	37	22/30	0.86	0.21	69,81,100,111	0
54	PSU	2y	39	20/21	0.88	0.24	77,84,98,102	0
54	PSU	2y	32	20/21	0.88	0.17	69,84,92,94	0
54	PSU	1y	32	20/21	0.88	0.19	71,81,88,90	0
54	MIA	1y	37	22/30	0.90	0.17	70,78,88,93	0
55	PSU	2x	55	20/21	0.91	0.13	67,78,81,81	0
54	4SU	1w	8	20/21	0.91	0.12	74,81,92,95	0
54	PSU	2w	55	20/21	0.91	0.12	75,81,89,94	0
43	0TD	2l	92	10/11	0.91	0.30	58,64,65,80	0
54	PSU	1w	55	20/21	0.92	0.14	61,70,79,80	0
54	PSU	1y	39	20/21	0.92	0.17	70,77,87,90	0
54	5MU	2w	54	21/22	0.92	0.12	68,75,81,83	0
55	5MU	2x	54	21/22	0.92	0.16	77,81,86,94	0
32	PSU	2a	516	20/21	0.93	0.14	50,70,74,75	0
54	PSU	2w	32	20/21	0.93	0.27	67,78,88,89	0
54	PSU	2w	39	20/21	0.93	0.19	60,73,79,81	0
32	5MC	2a	967	21/22	0.93	0.30	62,67,71,73	0
1	5MU	2A	1915	21/22	0.93	0.16	59,64,71,73	0
55	4SU	2x	8	20/21	0.93	0.13	69,73,78,81	0
43	0TD	1l	92	10/11	0.94	0.21	43,48,51,69	0
32	5MC	2a	1400	21/22	0.94	0.23	60,67,71,73	0
32	7MG	2a	527	24/25	0.94	0.17	46,56,67,71	0
55	5MC	2x	32	21/22	0.94	0.18	65,68,73,74	0
32	M2G	2a	966	25/26	0.94	0.26	60,65,72,79	0
1	4OC	2A	1920	21/23	0.95	0.18	53,58,64,66	0
1	5MU	1A	1937	21/22	0.95	0.17	43,49,54,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	PSU	1x	55	20/21	0.95	0.13	53,58,67,72	0
54	MIA	1w	37	29/30	0.95	0.23	41,51,60,64	0
1	PSU	2A	1911	20/21	0.95	0.15	50,60,65,67	0
54	MIA	2w	37	25/30	0.95	0.17	60,68,74,78	0
32	7MG	1a	527	24/25	0.95	0.18	34,42,51,55	0
32	2MG	2a	1207	24/25	0.95	0.15	74,77,86,91	0
1	PSU	2A	1917	20/21	0.95	0.14	55,60,65,69	0
32	5MC	2a	1404	21/22	0.95	0.17	47,51,56,61	0
54	PSU	1w	32	20/21	0.95	0.19	57,62,68,69	0
32	4OC	2a	1402	22/23	0.96	0.16	52,58,64,67	0
32	PSU	1a	516	20/21	0.96	0.15	32,49,53,54	0
32	5MC	2a	1407	21/22	0.96	0.19	44,48,55,60	0
32	MA6	2a	1518	24/25	0.96	0.19	47,59,63,66	0
32	MA6	2a	1519	24/25	0.96	0.21	47,56,64,66	0
55	5MU	1x	54	21/22	0.96	0.14	55,62,70,76	0
1	PSU	1A	1939	20/21	0.96	0.16	38,46,53,54	0
1	5MC	2A	1942	21/22	0.96	0.17	49,56,62,66	0
55	4SU	1x	8	20/21	0.96	0.15	50,57,65,67	0
32	2MG	1a	1207	24/25	0.96	0.17	57,62,67,68	0
32	MA6	1a	1519	24/25	0.97	0.20	33,39,43,44	0
32	M2G	1a	966	25/26	0.97	0.22	41,48,56,63	0
54	5MU	1w	54	21/22	0.97	0.17	44,60,67,72	0
1	5MU	2A	1939	21/22	0.97	0.17	34,38,43,44	0
1	PSU	1A	1933	20/21	0.97	0.19	30,37,44,45	0
1	5MC	2A	1962	21/22	0.97	0.17	32,45,48,61	0
54	PSU	1w	39	20/21	0.97	0.17	44,60,69,70	0
1	2MU	2A	2552	21/23	0.97	0.18	31,41,45,52	0
32	UR3	2a	1498	21/22	0.97	0.18	44,50,54,63	0
32	5MC	1a	1400	21/22	0.97	0.21	37,47,50,55	0
32	5MC	1a	1404	21/22	0.97	0.19	31,38,42,44	0
32	5MC	1a	1407	21/22	0.97	0.20	28,34,39,40	0
1	2MA	1A	2515	23/24	0.98	0.20	11,16,19,22	0
32	4OC	1a	1402	22/23	0.98	0.18	38,42,47,53	0
1	2MU	1A	2564	21/23	0.98	0.19	18,23,28,31	0
1	PSU	1A	2617	20/21	0.98	0.18	16,20,25,28	0
32	MA6	1a	1518	24/25	0.98	0.20	31,38,40,40	0
1	4OC	1A	1942	21/23	0.98	0.17	32,39,45,47	0
1	OMG	2A	2251	24/25	0.98	0.20	32,37,42,45	0
1	2MA	2A	2503	23/24	0.98	0.21	24,33,37,46	0
1	5MU	1A	1961	21/22	0.98	0.18	19,23,26,32	0
1	PSU	2A	2605	20/21	0.98	0.17	27,31,37,38	0
55	5MC	1x	32	21/22	0.98	0.20	44,50,57,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
1	5MC	1A	1964	21/22	0.98	0.18	30,39,46,50	0
32	5MC	1a	967	21/22	0.98	0.20	45,50,58,64	0
1	5MC	1A	1984	21/22	0.98	0.17	24,31,36,41	0
32	UR3	1a	1498	21/22	0.99	0.19	27,39,42,46	0
1	OMG	1A	2263	24/25	0.99	0.17	14,18,24,25	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	2y	3006	1/1	0.34	0.13	88,88,88,88	0
56	MG	2a	1640	1/1	0.36	0.22	62,62,62,62	0
56	MG	2A	3720	1/1	0.47	0.17	97,97,97,97	0
56	MG	1A	3209	1/1	0.52	0.29	61,61,61,61	0
56	MG	1A	3898	1/1	0.56	0.15	71,71,71,71	0
56	MG	1A	3986	1/1	0.60	0.24	67,67,67,67	0
56	MG	2a	1769	1/1	0.63	0.13	75,75,75,75	0
56	MG	1A	3242	1/1	0.63	0.26	59,59,59,59	0
56	MG	2A	3258	1/1	0.64	0.17	58,58,58,58	0
59	ZN	24	501	1/1	0.64	0.09	103,103,103,103	0
56	MG	1A	3414	1/1	0.66	0.28	55,55,55,55	0
56	MG	1A	3201	1/1	0.67	0.51	42,42,42,42	0
56	MG	2a	1750	1/1	0.68	0.09	60,60,60,60	0
56	MG	2A	3383	1/1	0.68	0.22	56,56,56,56	0
56	MG	2A	3457	1/1	0.69	0.20	58,58,58,58	0
56	MG	2A	3615	1/1	0.69	0.34	66,66,66,66	0
56	MG	1A	3366	1/1	0.69	0.29	50,50,50,50	0
56	MG	1a	3129	1/1	0.69	0.15	65,65,65,65	0
56	MG	2a	1637	1/1	0.70	0.13	52,52,52,52	0
56	MG	2A	3374	1/1	0.70	0.15	41,41,41,41	0
56	MG	2B	3013	1/1	0.70	0.16	74,74,74,74	0
56	MG	2A	3420	1/1	0.71	0.23	67,67,67,67	0
56	MG	1A	3971	1/1	0.71	0.15	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	1B	211	1/1	0.71	0.74	45,45,45,45	0
56	MG	2A	3630	1/1	0.71	0.18	55,55,55,55	0
56	MG	1A	3977	1/1	0.72	0.13	44,44,44,44	0
56	MG	28	102	1/1	0.72	0.15	64,64,64,64	0
56	MG	2A	3332	1/1	0.72	0.25	56,56,56,56	0
56	MG	1w	110	1/1	0.72	0.19	75,75,75,75	0
56	MG	2A	3247	1/1	0.73	0.13	63,63,63,63	0
56	MG	2a	1740	1/1	0.73	0.16	60,60,60,60	0
56	MG	1Z	3003	1/1	0.73	0.17	52,52,52,52	0
56	MG	1A	3458	1/1	0.73	0.15	68,68,68,68	0
56	MG	2w	106	1/1	0.73	0.33	59,59,59,59	0
56	MG	2A	3570	1/1	0.73	0.20	56,56,56,56	0
56	MG	1A	3436	1/1	0.73	0.16	62,62,62,62	0
56	MG	2A	3702	1/1	0.74	0.13	59,59,59,59	0
56	MG	2A	3353	1/1	0.74	0.16	35,35,35,35	0
56	MG	1A	3907	1/1	0.74	0.21	39,39,39,39	0
56	MG	2v	3002	1/1	0.74	0.55	67,67,67,67	0
56	MG	2A	3587	1/1	0.74	0.16	55,55,55,55	0
56	MG	2w	109	1/1	0.74	0.13	63,63,63,63	0
56	MG	1A	3802	1/1	0.74	0.22	54,54,54,54	0
56	MG	2A	3031	1/1	0.74	0.28	57,57,57,57	0
56	MG	1r	3001	1/1	0.75	0.16	61,61,61,61	0
56	MG	1A	3766	1/1	0.75	0.23	36,36,36,36	0
56	MG	2A	3636	1/1	0.75	0.18	55,55,55,55	0
56	MG	1B	236	1/1	0.75	0.31	65,65,65,65	0
56	MG	2A	3163	1/1	0.75	0.26	44,44,44,44	0
56	MG	2B	3002	1/1	0.75	0.38	62,62,62,62	0
56	MG	1X	101	1/1	0.75	0.09	73,73,73,73	0
56	MG	1A	3305	1/1	0.75	0.20	51,51,51,51	0
56	MG	1A	3920	1/1	0.75	0.21	39,39,39,39	0
56	MG	1A	3834	1/1	0.76	0.16	51,51,51,51	0
56	MG	2A	3201	1/1	0.76	0.20	55,55,55,55	0
56	MG	2r	3002	1/1	0.76	0.14	64,64,64,64	0
56	MG	2A	3215	1/1	0.76	0.15	58,58,58,58	0
56	MG	1A	3226	1/1	0.76	0.82	49,49,49,49	0
56	MG	1A	3319	1/1	0.76	0.23	53,53,53,53	0
56	MG	2y	3001	1/1	0.76	0.23	64,64,64,64	0
56	MG	2y	3003	1/1	0.76	0.13	59,59,59,59	0
56	MG	2A	3259	1/1	0.76	0.20	53,53,53,53	0
56	MG	2A	3710	1/1	0.76	0.07	76,76,76,76	0
56	MG	1E	310	1/1	0.77	0.16	60,60,60,60	0
56	MG	1D	313	1/1	0.77	0.21	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	1656	1/1	0.77	0.14	68,68,68,68	0
56	MG	2A	3491	1/1	0.77	0.13	75,75,75,75	0
56	MG	2A	3550	1/1	0.77	0.15	58,58,58,58	0
56	MG	2W	202	1/1	0.77	0.54	46,46,46,46	0
56	MG	2A	3198	1/1	0.77	0.17	43,43,43,43	0
56	MG	1A	3883	1/1	0.78	0.21	59,59,59,59	0
56	MG	1a	3141	1/1	0.78	0.17	64,64,64,64	0
56	MG	2A	3394	1/1	0.78	0.20	29,29,29,29	0
56	MG	1A	3293	1/1	0.78	0.23	51,51,51,51	0
56	MG	2a	1806	1/1	0.78	0.11	76,76,76,76	0
56	MG	1A	3361	1/1	0.78	0.37	57,57,57,57	0
56	MG	1B	208	1/1	0.78	0.23	59,59,59,59	0
56	MG	2A	3140	1/1	0.78	0.22	60,60,60,60	0
56	MG	2A	3266	1/1	0.78	0.11	54,54,54,54	0
56	MG	2A	3586	1/1	0.78	0.12	44,44,44,44	0
56	MG	1A	3044	1/1	0.78	0.16	37,37,37,37	0
56	MG	2A	3175	1/1	0.78	0.36	43,43,43,43	0
56	MG	2a	1644	1/1	0.78	0.20	62,62,62,62	0
56	MG	1A	3679	1/1	0.79	0.23	14,14,14,14	0
56	MG	2B	3012	1/1	0.79	0.16	75,75,75,75	0
56	MG	2a	1773	1/1	0.79	0.20	70,70,70,70	0
56	MG	1A	3459	1/1	0.79	0.20	53,53,53,53	0
56	MG	1A	3882	1/1	0.79	0.14	62,62,62,62	0
56	MG	2A	3244	1/1	0.79	0.18	47,47,47,47	0
56	MG	2v	3003	1/1	0.79	0.20	66,66,66,66	0
56	MG	2A	3088	1/1	0.79	0.15	40,40,40,40	0
56	MG	1A	3959	1/1	0.79	0.12	76,76,76,76	0
56	MG	1A	3794	1/1	0.79	0.18	18,18,18,18	0
56	MG	1D	301	1/1	0.79	0.28	44,44,44,44	0
56	MG	2y	3005	1/1	0.79	0.09	88,88,88,88	0
56	MG	2a	1714	1/1	0.79	0.28	68,68,68,68	0
56	MG	2A	3285	1/1	0.79	0.13	58,58,58,58	0
56	MG	2A	3033	1/1	0.80	0.18	52,52,52,52	0
56	MG	1a	3170	1/1	0.80	0.09	66,66,66,66	0
56	MG	2B	3016	1/1	0.80	0.10	54,54,54,54	0
56	MG	2a	1799	1/1	0.80	0.12	59,59,59,59	0
56	MG	2G	3001	1/1	0.80	0.10	60,60,60,60	0
56	MG	2A	3093	1/1	0.80	0.13	58,58,58,58	0
56	MG	1e	201	1/1	0.80	0.38	59,59,59,59	0
56	MG	2a	1617	1/1	0.80	0.15	73,73,73,73	0
56	MG	2A	3256	1/1	0.80	0.18	46,46,46,46	0
56	MG	2A	3160	1/1	0.80	0.17	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2x	103	1/1	0.80	0.22	63,63,63,63	0
56	MG	1a	3024	1/1	0.80	0.16	52,52,52,52	0
56	MG	1A	3593	1/1	0.80	0.12	30,30,30,30	0
56	MG	2a	1705	1/1	0.80	0.13	54,54,54,54	0
56	MG	1B	213	1/1	0.80	0.84	55,55,55,55	0
56	MG	2A	3560	1/1	0.80	0.08	50,50,50,50	0
56	MG	1a	3175	1/1	0.81	0.09	58,58,58,58	0
56	MG	2a	1603	1/1	0.81	0.17	73,73,73,73	0
56	MG	2a	1607	1/1	0.81	0.18	73,73,73,73	0
56	MG	2a	1616	1/1	0.81	0.11	67,67,67,67	0
56	MG	1A	3804	1/1	0.81	0.16	45,45,45,45	0
56	MG	2A	3536	1/1	0.81	0.14	54,54,54,54	0
56	MG	1l	202	1/1	0.81	0.16	85,85,85,85	0
56	MG	1A	3760	1/1	0.81	0.13	44,44,44,44	0
56	MG	1Z	3002	1/1	0.81	0.15	46,46,46,46	0
56	MG	2a	1662	1/1	0.81	0.11	59,59,59,59	0
56	MG	1B	212	1/1	0.81	0.29	46,46,46,46	0
56	MG	1A	3844	1/1	0.81	0.08	23,23,23,23	0
56	MG	2A	3046	1/1	0.81	0.15	58,58,58,58	0
56	MG	2A	3261	1/1	0.81	0.20	50,50,50,50	0
56	MG	2A	3058	1/1	0.81	0.20	65,65,65,65	0
56	MG	2a	1772	1/1	0.81	0.17	54,54,54,54	0
56	MG	2A	3701	1/1	0.81	0.11	50,50,50,50	0
56	MG	1a	3049	1/1	0.81	0.16	60,60,60,60	0
56	MG	1A	3086	1/1	0.81	0.15	55,55,55,55	0
56	MG	2A	3128	1/1	0.81	0.26	35,35,35,35	0
56	MG	2t	3001	1/1	0.81	0.09	53,53,53,53	0
56	MG	2A	3723	1/1	0.81	0.31	67,67,67,67	0
56	MG	1A	3341	1/1	0.81	0.37	38,38,38,38	0
56	MG	1a	3149	1/1	0.81	0.54	76,76,76,76	0
56	MG	2A	3389	1/1	0.81	0.20	35,35,35,35	0
56	MG	1a	3162	1/1	0.81	0.22	62,62,62,62	0
56	MG	2E	305	1/1	0.81	0.14	51,51,51,51	0
56	MG	1A	3408	1/1	0.81	0.30	40,40,40,40	0
56	MG	2A	3439	1/1	0.81	0.11	49,49,49,49	0
56	MG	27	101	1/1	0.81	0.34	44,44,44,44	0
56	MG	28	101	1/1	0.81	0.20	49,49,49,49	0
56	MG	1A	3363	1/1	0.82	0.17	32,32,32,32	0
56	MG	1A	3523	1/1	0.82	0.12	46,46,46,46	0
56	MG	2a	1651	1/1	0.82	0.08	60,60,60,60	0
56	MG	16	103	1/1	0.82	0.53	56,56,56,56	0
56	MG	2A	3687	1/1	0.82	0.29	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1667	1/1	0.82	0.17	61,61,61,61	0
56	MG	1a	3006	1/1	0.82	0.20	59,59,59,59	0
56	MG	1A	4048	1/1	0.82	0.64	31,31,31,31	0
56	MG	2a	1738	1/1	0.82	0.12	71,71,71,71	0
56	MG	1A	3230	1/1	0.82	0.19	44,44,44,44	0
56	MG	1a	3069	1/1	0.82	0.15	59,59,59,59	0
56	MG	1A	3367	1/1	0.82	0.22	46,46,46,46	0
56	MG	2A	3747	1/1	0.82	0.17	35,35,35,35	0
56	MG	1A	3166	1/1	0.82	0.37	31,31,31,31	0
56	MG	1A	3248	1/1	0.82	0.14	49,49,49,49	0
56	MG	1a	3154	1/1	0.82	0.10	59,59,59,59	0
56	MG	2a	1829	1/1	0.82	0.30	68,68,68,68	0
56	MG	2A	3196	1/1	0.82	0.19	53,53,53,53	0
56	MG	2A	3447	1/1	0.82	0.22	27,27,27,27	0
56	MG	1B	232	1/1	0.82	0.14	66,66,66,66	0
56	MG	1A	3789	1/1	0.82	0.21	44,44,44,44	0
56	MG	2A	3524	1/1	0.82	0.12	61,61,61,61	0
56	MG	1A	3914	1/1	0.82	0.21	54,54,54,54	0
56	MG	2A	3229	1/1	0.82	0.24	34,34,34,34	0
56	MG	2A	3558	1/1	0.82	0.28	50,50,50,50	0
56	MG	1A	3357	1/1	0.82	0.23	43,43,43,43	0
56	MG	1A	3795	1/1	0.82	0.17	50,50,50,50	0
56	MG	1V	202	1/1	0.82	0.42	44,44,44,44	0
56	MG	1A	3227	1/1	0.82	0.13	49,49,49,49	0
56	MG	2a	1681	1/1	0.83	0.22	69,69,69,69	0
56	MG	2a	1694	1/1	0.83	0.27	66,66,66,66	0
56	MG	2B	3014	1/1	0.83	0.31	71,71,71,71	0
56	MG	1A	3904	1/1	0.83	0.15	71,71,71,71	0
56	MG	1A	3308	1/1	0.83	0.16	49,49,49,49	0
56	MG	1A	4041	1/1	0.83	0.54	35,35,35,35	0
56	MG	2A	3225	1/1	0.83	0.18	53,53,53,53	0
56	MG	2A	3065	1/1	0.83	0.16	52,52,52,52	0
56	MG	1a	3018	1/1	0.83	0.29	55,55,55,55	0
56	MG	2A	3638	1/1	0.83	0.16	66,66,66,66	0
56	MG	2A	3653	1/1	0.83	0.22	37,37,37,37	0
56	MG	2A	3436	1/1	0.83	0.14	62,62,62,62	0
56	MG	2a	1609	1/1	0.83	0.12	57,57,57,57	0
56	MG	2j	8001	1/1	0.83	0.11	66,66,66,66	0
56	MG	2a	1613	1/1	0.83	0.15	60,60,60,60	0
56	MG	1A	3315	1/1	0.83	0.25	37,37,37,37	0
56	MG	1a	3026	1/1	0.83	0.11	72,72,72,72	0
56	MG	2a	1636	1/1	0.83	0.09	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	3257	1/1	0.83	0.18	57,57,57,57	0
56	MG	1A	3801	1/1	0.83	0.25	71,71,71,71	0
56	MG	2A	3158	1/1	0.83	0.32	49,49,49,49	0
56	MG	2a	1648	1/1	0.83	0.23	63,63,63,63	0
56	MG	1A	3935	1/1	0.83	0.15	43,43,43,43	0
56	MG	1v	3001	1/1	0.83	0.11	72,72,72,72	0
56	MG	1A	3423	1/1	0.83	0.17	38,38,38,38	0
56	MG	1A	3299	1/1	0.83	0.35	28,28,28,28	0
56	MG	2A	3296	1/1	0.84	0.40	54,54,54,54	0
56	MG	2A	3312	1/1	0.84	0.17	57,57,57,57	0
56	MG	2A	3329	1/1	0.84	0.22	46,46,46,46	0
56	MG	2a	1697	1/1	0.84	0.10	64,64,64,64	0
56	MG	2F	302	1/1	0.84	0.13	50,50,50,50	0
56	MG	1A	3781	1/1	0.84	0.19	51,51,51,51	0
56	MG	2a	1722	1/1	0.84	0.18	79,79,79,79	0
56	MG	2a	1736	1/1	0.84	0.11	82,82,82,82	0
56	MG	2T	3001	1/1	0.84	0.26	52,52,52,52	0
56	MG	2A	3205	1/1	0.84	0.15	55,55,55,55	0
56	MG	2A	3087	1/1	0.84	0.08	59,59,59,59	0
56	MG	2a	1751	1/1	0.84	0.12	87,87,87,87	0
56	MG	2A	3621	1/1	0.84	0.09	49,49,49,49	0
56	MG	1A	3931	1/1	0.84	0.22	47,47,47,47	0
56	MG	1A	3672	1/1	0.84	0.22	68,68,68,68	0
56	MG	2a	1788	1/1	0.84	0.12	55,55,55,55	0
56	MG	2a	1604	1/1	0.84	0.16	48,48,48,48	0
56	MG	2a	1802	1/1	0.84	0.23	69,69,69,69	0
56	MG	1A	3246	1/1	0.84	0.13	37,37,37,37	0
56	MG	2A	3133	1/1	0.84	0.27	44,44,44,44	0
56	MG	2A	3672	1/1	0.84	0.26	46,46,46,46	0
56	MG	2q	203	1/1	0.84	0.20	75,75,75,75	0
56	MG	2A	3425	1/1	0.84	0.11	59,59,59,59	0
56	MG	1B	210	1/1	0.84	0.15	50,50,50,50	0
56	MG	1w	111	1/1	0.84	0.13	69,69,69,69	0
56	MG	2A	3443	1/1	0.84	0.14	34,34,34,34	0
56	MG	1y	103	1/1	0.84	0.26	82,82,82,82	0
56	MG	1A	3350	1/1	0.84	0.31	44,44,44,44	0
56	MG	2a	1647	1/1	0.84	0.13	80,80,80,80	0
56	MG	2x	104	1/1	0.84	0.13	64,64,64,64	0
56	MG	1N	204	1/1	0.84	0.60	46,46,46,46	0
56	MG	2A	3263	1/1	0.84	0.19	54,54,54,54	0
56	MG	1A	3065	1/1	0.84	0.39	62,62,62,62	0
56	MG	1a	3046	1/1	0.84	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	2a	1663	1/1	0.84	0.13	48,48,48,48	0
56	MG	2A	3076	1/1	0.85	0.13	45,45,45,45	0
56	MG	1A	3960	1/1	0.85	0.23	51,51,51,51	0
56	MG	2A	3267	1/1	0.85	0.20	52,52,52,52	0
56	MG	1A	3895	1/1	0.85	0.15	71,71,71,71	0
56	MG	2A	3293	1/1	0.85	0.28	46,46,46,46	0
56	MG	1a	3168	1/1	0.85	0.15	63,63,63,63	0
56	MG	2A	3311	1/1	0.85	0.23	50,50,50,50	0
56	MG	2A	3094	1/1	0.85	0.16	47,47,47,47	0
56	MG	1a	3014	1/1	0.85	0.39	55,55,55,55	0
56	MG	1A	3083	1/1	0.85	0.26	55,55,55,55	0
56	MG	1a	3177	1/1	0.85	0.15	57,57,57,57	0
56	MG	2A	3356	1/1	0.85	0.08	42,42,42,42	0
56	MG	2A	3714	1/1	0.85	0.14	50,50,50,50	0
56	MG	1a	3205	1/1	0.85	0.11	69,69,69,69	0
56	MG	1a	3206	1/1	0.85	0.18	51,51,51,51	0
56	MG	1A	3984	1/1	0.85	0.11	52,52,52,52	0
56	MG	1A	3137	1/1	0.85	0.42	40,40,40,40	0
56	MG	2B	3003	1/1	0.85	0.21	60,60,60,60	0
56	MG	2A	3185	1/1	0.85	0.19	46,46,46,46	0
56	MG	1A	3680	1/1	0.85	0.30	36,36,36,36	0
56	MG	1A	3207	1/1	0.85	0.28	52,52,52,52	0
56	MG	1w	103	1/1	0.85	0.37	68,68,68,68	0
56	MG	2B	3019	1/1	0.85	0.30	82,82,82,82	0
56	MG	2D	304	1/1	0.85	0.14	53,53,53,53	0
56	MG	1w	108	1/1	0.85	0.16	66,66,66,66	0
56	MG	2a	1784	1/1	0.85	0.11	66,66,66,66	0
56	MG	1a	3061	1/1	0.85	0.14	56,56,56,56	0
56	MG	2a	1791	1/1	0.85	0.12	69,69,69,69	0
56	MG	2a	1792	1/1	0.85	0.09	61,61,61,61	0
56	MG	2F	304	1/1	0.85	0.10	64,64,64,64	0
56	MG	1A	3316	1/1	0.85	0.41	34,34,34,34	0
56	MG	2O	8001	1/1	0.85	0.20	56,56,56,56	0
56	MG	2a	1815	1/1	0.85	0.16	61,61,61,61	0
56	MG	2a	1822	1/1	0.85	0.22	52,52,52,52	0
56	MG	2A	3472	1/1	0.85	0.23	42,42,42,42	0
56	MG	2U	203	1/1	0.85	0.41	55,55,55,55	0
56	MG	1x	103	1/1	0.85	0.27	54,54,54,54	0
56	MG	2A	3497	1/1	0.85	0.18	63,63,63,63	0
56	MG	2A	3501	1/1	0.85	0.19	53,53,53,53	0
56	MG	1x	109	1/1	0.85	0.11	57,57,57,57	0
56	MG	1a	3083	1/1	0.85	0.19	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	3084	1/1	0.85	0.28	54,54,54,54	0
56	MG	2a	1605	1/1	0.85	0.13	61,61,61,61	0
56	MG	1a	3089	1/1	0.85	0.15	40,40,40,40	0
56	MG	1A	3143	1/1	0.85	0.47	37,37,37,37	0
56	MG	1A	3640	1/1	0.85	0.16	36,36,36,36	0
56	MG	2a	1615	1/1	0.85	0.22	54,54,54,54	0
56	MG	2A	3571	1/1	0.85	0.10	57,57,57,57	0
56	MG	1A	3644	1/1	0.85	0.14	12,12,12,12	0
56	MG	2a	1631	1/1	0.85	0.09	66,66,66,66	0
56	MG	1A	3416	1/1	0.86	0.15	17,17,17,17	0
56	MG	2A	3231	1/1	0.86	0.31	49,49,49,49	0
56	MG	2a	1661	1/1	0.86	0.11	63,63,63,63	0
56	MG	1a	3161	1/1	0.86	0.08	53,53,53,53	0
56	MG	2A	3738	1/1	0.86	0.17	63,63,63,63	0
56	MG	2a	1666	1/1	0.86	0.10	51,51,51,51	0
56	MG	1A	3057	1/1	0.86	0.26	45,45,45,45	0
56	MG	15	107	1/1	0.86	0.21	45,45,45,45	0
56	MG	2A	3468	1/1	0.86	0.11	40,40,40,40	0
56	MG	2B	3008	1/1	0.86	0.30	59,59,59,59	0
56	MG	1A	3465	1/1	0.86	0.20	55,55,55,55	0
56	MG	2A	3083	1/1	0.86	0.10	53,53,53,53	0
56	MG	1A	3480	1/1	0.86	0.64	35,35,35,35	0
56	MG	2a	1724	1/1	0.86	0.11	73,73,73,73	0
56	MG	2a	1732	1/1	0.86	0.11	56,56,56,56	0
56	MG	1A	3047	1/1	0.86	0.14	50,50,50,50	0
56	MG	2A	3514	1/1	0.86	0.22	56,56,56,56	0
56	MG	1A	3691	1/1	0.86	0.30	55,55,55,55	0
56	MG	1A	3939	1/1	0.86	0.15	44,44,44,44	0
56	MG	2A	3539	1/1	0.86	0.10	59,59,59,59	0
56	MG	2a	1752	1/1	0.86	0.16	62,62,62,62	0
56	MG	2a	1755	1/1	0.86	0.06	70,70,70,70	0
56	MG	2A	3542	1/1	0.86	0.13	36,36,36,36	0
56	MG	2A	3544	1/1	0.86	0.24	30,30,30,30	0
56	MG	1A	3951	1/1	0.86	0.12	62,62,62,62	0
56	MG	2A	3277	1/1	0.86	0.37	54,54,54,54	0
56	MG	2A	3281	1/1	0.86	0.09	60,60,60,60	0
56	MG	1A	3718	1/1	0.86	0.20	39,39,39,39	0
56	MG	2Z	8001	1/1	0.86	0.26	73,73,73,73	0
56	MG	1p	101	1/1	0.86	0.24	55,55,55,55	0
56	MG	1A	3590	1/1	0.86	0.22	36,36,36,36	0
56	MG	1A	3592	1/1	0.86	0.13	30,30,30,30	0
56	MG	2a	1602	1/1	0.86	0.21	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	2A	3604	1/1	0.86	0.10	58,58,58,58	0
56	MG	1a	3064	1/1	0.86	0.21	54,54,54,54	0
56	MG	2g	8001	1/1	0.86	0.15	59,59,59,59	0
56	MG	2A	3616	1/1	0.86	0.12	51,51,51,51	0
56	MG	2A	3618	1/1	0.86	0.18	71,71,71,71	0
56	MG	1A	3455	1/1	0.86	0.51	28,28,28,28	0
56	MG	2a	1612	1/1	0.86	0.11	58,58,58,58	0
56	MG	1A	3621	1/1	0.86	0.17	44,44,44,44	0
56	MG	1Q	204	1/1	0.86	0.17	41,41,41,41	0
56	MG	2w	102	1/1	0.86	0.14	78,78,78,78	0
56	MG	1S	3001	1/1	0.86	0.18	47,47,47,47	0
56	MG	2A	3650	1/1	0.86	0.09	52,52,52,52	0
56	MG	2x	101	1/1	0.86	0.12	52,52,52,52	0
56	MG	1S	3003	1/1	0.86	0.21	61,61,61,61	0
56	MG	1A	3903	1/1	0.86	0.11	23,23,23,23	0
56	MG	2A	3676	1/1	0.86	0.13	79,79,79,79	0
56	MG	2A	3208	1/1	0.86	0.23	49,49,49,49	0
56	MG	2A	3002	1/1	0.86	0.13	61,61,61,61	0
56	MG	2A	3220	1/1	0.86	0.13	49,49,49,49	0
56	MG	1A	4016	1/1	0.86	0.11	55,55,55,55	0
56	MG	1a	3038	1/1	0.87	0.20	55,55,55,55	0
56	MG	1A	3741	1/1	0.87	0.11	40,40,40,40	0
56	MG	2A	3186	1/1	0.87	0.15	51,51,51,51	0
56	MG	2A	3715	1/1	0.87	0.09	56,56,56,56	0
56	MG	2A	3188	1/1	0.87	0.12	57,57,57,57	0
56	MG	2A	3426	1/1	0.87	0.18	48,48,48,48	0
56	MG	2A	3730	1/1	0.87	0.35	32,32,32,32	0
56	MG	1A	3313	1/1	0.87	0.39	35,35,35,35	0
56	MG	1w	101	1/1	0.87	0.30	74,74,74,74	0
56	MG	1A	3965	1/1	0.87	0.16	63,63,63,63	0
56	MG	1D	307	1/1	0.87	0.17	39,39,39,39	0
56	MG	1A	3169	1/1	0.87	0.13	53,53,53,53	0
56	MG	2B	3009	1/1	0.87	0.14	63,63,63,63	0
56	MG	2B	3010	1/1	0.87	0.11	64,64,64,64	0
56	MG	1E	308	1/1	0.87	0.17	28,28,28,28	0
56	MG	1A	3780	1/1	0.87	0.23	44,44,44,44	0
56	MG	1A	3980	1/1	0.87	0.21	62,62,62,62	0
56	MG	1A	3277	1/1	0.87	0.13	37,37,37,37	0
56	MG	2a	1745	1/1	0.87	0.13	64,64,64,64	0
56	MG	1a	3130	1/1	0.87	0.14	46,46,46,46	0
56	MG	2A	3021	1/1	0.87	0.32	58,58,58,58	0
56	MG	1A	3198	1/1	0.87	0.12	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	3989	1/1	0.87	0.10	49,49,49,49	0
56	MG	1A	4012	1/1	0.87	0.26	47,47,47,47	0
56	MG	2A	3053	1/1	0.87	0.14	30,30,30,30	0
56	MG	1A	3792	1/1	0.87	0.18	19,19,19,19	0
56	MG	2Q	3003	1/1	0.87	0.64	52,52,52,52	0
56	MG	2A	3546	1/1	0.87	0.15	45,45,45,45	0
56	MG	1A	3002	1/1	0.87	0.18	46,46,46,46	0
56	MG	1a	3165	1/1	0.87	0.09	60,60,60,60	0
56	MG	2A	3082	1/1	0.87	0.18	69,69,69,69	0
56	MG	2A	3568	1/1	0.87	0.16	47,47,47,47	0
56	MG	1A	3346	1/1	0.87	0.18	43,43,43,43	0
56	MG	2a	1808	1/1	0.87	0.19	58,58,58,58	0
56	MG	1A	4053	1/1	0.87	0.45	42,42,42,42	0
56	MG	1A	3513	1/1	0.87	0.16	29,29,29,29	0
56	MG	1A	3516	1/1	0.87	0.13	30,30,30,30	0
56	MG	2A	3286	1/1	0.87	0.17	46,46,46,46	0
56	MG	2A	3612	1/1	0.87	0.20	65,65,65,65	0
56	MG	1a	3180	1/1	0.87	0.10	62,62,62,62	0
56	MG	2A	3102	1/1	0.87	0.37	44,44,44,44	0
56	MG	2A	3307	1/1	0.87	0.14	35,35,35,35	0
56	MG	1a	3186	1/1	0.87	0.19	48,48,48,48	0
56	MG	2A	3131	1/1	0.87	0.13	40,40,40,40	0
56	MG	2A	3322	1/1	0.87	0.37	55,55,55,55	0
56	MG	1A	3052	1/1	0.87	0.14	31,31,31,31	0
56	MG	2a	1620	1/1	0.87	0.21	64,64,64,64	0
56	MG	1A	3832	1/1	0.87	0.13	69,69,69,69	0
56	MG	2A	3349	1/1	0.87	0.17	30,30,30,30	0
56	MG	2A	3156	1/1	0.87	0.18	42,42,42,42	0
56	MG	1a	3207	1/1	0.87	0.09	41,41,41,41	0
56	MG	1A	3106	1/1	0.87	0.54	24,24,24,24	0
56	MG	2a	1645	1/1	0.87	0.61	74,74,74,74	0
56	MG	2A	3689	1/1	0.87	0.13	56,56,56,56	0
56	MG	1B	220	1/1	0.87	0.14	57,57,57,57	0
56	MG	2A	3045	1/1	0.88	0.14	55,55,55,55	0
56	MG	1A	3135	1/1	0.88	0.27	23,23,23,23	0
56	MG	2A	3052	1/1	0.88	0.14	36,36,36,36	0
56	MG	1a	3096	1/1	0.88	0.18	47,47,47,47	0
56	MG	2A	3606	1/1	0.88	0.12	49,49,49,49	0
56	MG	1A	3282	1/1	0.88	0.21	56,56,56,56	0
56	MG	1E	306	1/1	0.88	0.12	38,38,38,38	0
56	MG	2A	3071	1/1	0.88	0.08	60,60,60,60	0
56	MG	2a	1639	1/1	0.88	0.21	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3280	1/1	0.88	0.47	50,50,50,50	0
56	MG	1A	3425	1/1	0.88	0.14	34,34,34,34	0
56	MG	1A	3309	1/1	0.88	0.14	32,32,32,32	0
56	MG	1A	3967	1/1	0.88	0.27	53,53,53,53	0
56	MG	1A	3283	1/1	0.88	0.33	28,28,28,28	0
56	MG	1A	3085	1/1	0.88	0.14	13,13,13,13	0
56	MG	1A	3294	1/1	0.88	0.21	40,40,40,40	0
56	MG	1A	3843	1/1	0.88	0.10	66,66,66,66	0
56	MG	1A	3461	1/1	0.88	0.18	55,55,55,55	0
56	MG	2A	3321	1/1	0.88	0.21	44,44,44,44	0
56	MG	2A	3115	1/1	0.88	0.18	39,39,39,39	0
56	MG	2A	3690	1/1	0.88	0.14	58,58,58,58	0
56	MG	2a	1671	1/1	0.88	0.16	58,58,58,58	0
56	MG	2A	3117	1/1	0.88	0.21	61,61,61,61	0
56	MG	1A	3881	1/1	0.88	0.11	44,44,44,44	0
56	MG	1A	3297	1/1	0.88	0.13	35,35,35,35	0
56	MG	11	102	1/1	0.88	0.21	72,72,72,72	0
56	MG	2a	1713	1/1	0.88	0.13	48,48,48,48	0
56	MG	1A	3368	1/1	0.88	0.39	39,39,39,39	0
56	MG	2A	3360	1/1	0.88	0.13	25,25,25,25	0
56	MG	16	101	1/1	0.88	0.17	35,35,35,35	0
56	MG	2A	3376	1/1	0.88	0.17	45,45,45,45	0
56	MG	2A	3737	1/1	0.88	0.26	42,42,42,42	0
56	MG	1A	4027	1/1	0.88	0.30	61,61,61,61	0
56	MG	2A	3744	1/1	0.88	0.10	40,40,40,40	0
56	MG	1A	3730	1/1	0.88	0.35	42,42,42,42	0
56	MG	1A	3506	1/1	0.88	0.09	24,24,24,24	0
56	MG	2A	3166	1/1	0.88	0.13	47,47,47,47	0
56	MG	2A	3174	1/1	0.88	0.24	47,47,47,47	0
56	MG	1a	3017	1/1	0.88	0.20	57,57,57,57	0
56	MG	2A	3433	1/1	0.88	0.19	60,60,60,60	0
56	MG	1A	3373	1/1	0.88	0.12	41,41,41,41	0
56	MG	1a	3020	1/1	0.88	0.09	47,47,47,47	0
56	MG	2A	3441	1/1	0.88	0.14	62,62,62,62	0
56	MG	1t	3001	1/1	0.88	0.20	57,57,57,57	0
56	MG	2A	3193	1/1	0.88	0.12	51,51,51,51	0
56	MG	1A	4065	1/1	0.88	0.12	36,36,36,36	0
56	MG	2a	1797	1/1	0.88	0.13	70,70,70,70	0
56	MG	2D	307	1/1	0.88	0.27	35,35,35,35	0
56	MG	1A	3761	1/1	0.88	0.14	48,48,48,48	0
56	MG	2E	307	1/1	0.88	0.20	60,60,60,60	0
56	MG	1A	3398	1/1	0.88	0.12	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	3202	1/1	0.88	0.14	56,56,56,56	0
56	MG	2A	3492	1/1	0.88	0.22	49,49,49,49	0
56	MG	1A	3779	1/1	0.88	0.10	50,50,50,50	0
56	MG	1A	3916	1/1	0.88	0.13	54,54,54,54	0
56	MG	2A	3213	1/1	0.88	0.11	50,50,50,50	0
56	MG	2A	3515	1/1	0.88	0.19	44,44,44,44	0
56	MG	2A	3520	1/1	0.88	0.10	52,52,52,52	0
56	MG	1a	3050	1/1	0.88	0.12	50,50,50,50	0
56	MG	20	3001	1/1	0.88	0.15	52,52,52,52	0
56	MG	21	3001	1/1	0.88	0.54	36,36,36,36	0
56	MG	2v	3004	1/1	0.88	0.19	73,73,73,73	0
56	MG	1x	101	1/1	0.88	0.19	54,54,54,54	0
56	MG	2w	105	1/1	0.88	0.14	72,72,72,72	0
56	MG	1a	3059	1/1	0.88	0.09	61,61,61,61	0
56	MG	1A	3321	1/1	0.88	0.41	45,45,45,45	0
56	MG	1A	3527	1/1	0.88	0.24	66,66,66,66	0
56	MG	2A	3241	1/1	0.88	0.18	55,55,55,55	0
56	MG	1A	3549	1/1	0.88	0.11	30,30,30,30	0
56	MG	1a	3073	1/1	0.88	0.12	59,59,59,59	0
56	MG	2A	3249	1/1	0.88	0.14	54,54,54,54	0
56	MG	1A	3133	1/1	0.88	0.22	43,43,43,43	0
56	MG	2a	1610	1/1	0.88	0.81	63,63,63,63	0
56	MG	2y	3007	1/1	0.88	0.14	81,81,81,81	0
56	MG	1A	3944	1/1	0.88	0.13	39,39,39,39	0
56	MG	1w	106	1/1	0.89	0.10	70,70,70,70	0
56	MG	1A	3586	1/1	0.89	0.19	17,17,17,17	0
56	MG	2A	3545	1/1	0.89	0.18	45,45,45,45	0
56	MG	2A	3223	1/1	0.89	0.13	45,45,45,45	0
56	MG	2A	3547	1/1	0.89	0.25	47,47,47,47	0
56	MG	1a	3003	1/1	0.89	0.20	56,56,56,56	0
56	MG	2A	3228	1/1	0.89	0.38	38,38,38,38	0
56	MG	1A	3427	1/1	0.89	0.67	29,29,29,29	0
56	MG	1A	3997	1/1	0.89	0.20	45,45,45,45	0
56	MG	1A	4009	1/1	0.89	0.22	41,41,41,41	0
56	MG	1A	3430	1/1	0.89	0.66	40,40,40,40	0
56	MG	1x	114	1/1	0.89	0.14	67,67,67,67	0
56	MG	2a	1621	1/1	0.89	0.55	65,65,65,65	0
56	MG	2a	1626	1/1	0.89	0.08	50,50,50,50	0
56	MG	1A	3823	1/1	0.89	0.13	50,50,50,50	0
56	MG	2a	1633	1/1	0.89	0.11	63,63,63,63	0
56	MG	2A	3592	1/1	0.89	0.12	43,43,43,43	0
56	MG	2A	3001	1/1	0.89	0.09	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	3828	1/1	0.89	0.19	62,62,62,62	0
56	MG	2A	3015	1/1	0.89	0.15	37,37,37,37	0
56	MG	2a	1641	1/1	0.89	0.13	53,53,53,53	0
56	MG	2a	1642	1/1	0.89	0.21	55,55,55,55	0
56	MG	1A	3432	1/1	0.89	0.15	31,31,31,31	0
56	MG	2A	3024	1/1	0.89	0.20	50,50,50,50	0
56	MG	1a	3027	1/1	0.89	0.24	58,58,58,58	0
56	MG	1A	4047	1/1	0.89	0.39	29,29,29,29	0
56	MG	2a	1650	1/1	0.89	0.16	68,68,68,68	0
56	MG	2A	3044	1/1	0.89	0.08	61,61,61,61	0
56	MG	1a	3044	1/1	0.89	0.15	46,46,46,46	0
56	MG	1A	3609	1/1	0.89	0.08	61,61,61,61	0
56	MG	2A	3048	1/1	0.89	0.12	57,57,57,57	0
56	MG	2A	3049	1/1	0.89	0.12	53,53,53,53	0
56	MG	2A	3659	1/1	0.89	0.18	41,41,41,41	0
56	MG	2A	3666	1/1	0.89	0.14	46,46,46,46	0
56	MG	1A	3104	1/1	0.89	0.22	45,45,45,45	0
56	MG	1A	3439	1/1	0.89	0.31	37,37,37,37	0
56	MG	2A	3682	1/1	0.89	0.13	61,61,61,61	0
56	MG	1A	3317	1/1	0.89	0.47	45,45,45,45	0
56	MG	2a	1701	1/1	0.89	0.10	72,72,72,72	0
56	MG	1A	3456	1/1	0.89	0.41	33,33,33,33	0
56	MG	2a	1708	1/1	0.89	0.14	61,61,61,61	0
56	MG	2A	3067	1/1	0.89	0.22	46,46,46,46	0
56	MG	2A	3695	1/1	0.89	0.25	58,58,58,58	0
56	MG	2a	1719	1/1	0.89	0.14	55,55,55,55	0
56	MG	1A	3054	1/1	0.89	0.12	26,26,26,26	0
56	MG	1A	3306	1/1	0.89	0.15	43,43,43,43	0
56	MG	1A	3333	1/1	0.89	0.51	43,43,43,43	0
56	MG	1A	3697	1/1	0.89	0.20	27,27,27,27	0
56	MG	2A	3086	1/1	0.89	0.14	62,62,62,62	0
56	MG	2A	3338	1/1	0.89	0.26	42,42,42,42	0
56	MG	1B	226	1/1	0.89	0.14	67,67,67,67	0
56	MG	2a	1748	1/1	0.89	0.14	60,60,60,60	0
56	MG	1B	229	1/1	0.89	0.09	57,57,57,57	0
56	MG	2A	3731	1/1	0.89	0.11	37,37,37,37	0
56	MG	1A	3711	1/1	0.89	0.15	44,44,44,44	0
56	MG	1A	3713	1/1	0.89	0.11	48,48,48,48	0
56	MG	1A	3339	1/1	0.89	0.26	48,48,48,48	0
56	MG	2a	1770	1/1	0.89	0.17	59,59,59,59	0
56	MG	1A	3473	1/1	0.89	0.18	42,42,42,42	0
56	MG	2A	3753	1/1	0.89	0.55	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	2B	3001	1/1	0.89	0.55	75,75,75,75	0
56	MG	1A	3735	1/1	0.89	0.14	22,22,22,22	0
56	MG	1A	3018	1/1	0.89	0.14	43,43,43,43	0
56	MG	1A	3759	1/1	0.89	0.13	32,32,32,32	0
56	MG	2A	3396	1/1	0.89	0.14	29,29,29,29	0
56	MG	1A	3094	1/1	0.89	0.13	56,56,56,56	0
56	MG	2a	1800	1/1	0.89	0.23	61,61,61,61	0
56	MG	1F	306	1/1	0.89	0.18	36,36,36,36	0
56	MG	1N	202	1/1	0.89	0.13	36,36,36,36	0
56	MG	1A	3197	1/1	0.89	0.13	32,32,32,32	0
56	MG	1O	205	1/1	0.89	0.38	57,57,57,57	0
56	MG	2B	3018	1/1	0.89	0.86	80,80,80,80	0
56	MG	2a	1824	1/1	0.89	0.18	63,63,63,63	0
56	MG	2a	1826	1/1	0.89	0.12	55,55,55,55	0
56	MG	1O	207	1/1	0.89	0.10	54,54,54,54	0
56	MG	1P	203	1/1	0.89	0.42	33,33,33,33	0
56	MG	1A	3947	1/1	0.89	0.14	49,49,49,49	0
56	MG	2l	202	1/1	0.89	0.43	66,66,66,66	0
56	MG	2q	202	1/1	0.89	0.24	59,59,59,59	0
56	MG	1a	3192	1/1	0.89	0.09	62,62,62,62	0
56	MG	1A	3415	1/1	0.89	0.45	38,38,38,38	0
56	MG	1A	3355	1/1	0.89	0.49	30,30,30,30	0
56	MG	1A	3356	1/1	0.89	0.19	48,48,48,48	0
56	MG	1A	3548	1/1	0.89	0.14	52,52,52,52	0
56	MG	2A	3194	1/1	0.89	0.21	51,51,51,51	0
56	MG	1A	3263	1/1	0.89	0.09	48,48,48,48	0
56	MG	1A	3566	1/1	0.89	0.17	62,62,62,62	0
56	MG	2A	3507	1/1	0.89	0.10	67,67,67,67	0
56	MG	10	105	1/1	0.89	0.10	50,50,50,50	0
56	MG	1A	3568	1/1	0.89	0.10	30,30,30,30	0
56	MG	2A	3518	1/1	0.89	0.13	45,45,45,45	0
56	MG	20	3002	1/1	0.89	0.07	52,52,52,52	0
56	MG	13	102	1/1	0.89	0.13	46,46,46,46	0
56	MG	25	504	1/1	0.89	0.36	67,67,67,67	0
56	MG	2A	3207	1/1	0.89	0.28	40,40,40,40	0
56	MG	2A	3530	1/1	0.89	0.16	64,64,64,64	0
56	MG	1A	3584	1/1	0.89	0.14	44,44,44,44	0
56	MG	1A	3796	1/1	0.89	0.17	33,33,33,33	0
56	MG	2A	3354	1/1	0.90	0.14	53,53,53,53	0
56	MG	2E	303	1/1	0.90	0.18	50,50,50,50	0
56	MG	1A	3670	1/1	0.90	0.11	43,43,43,43	0
56	MG	2E	306	1/1	0.90	0.12	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	2A	3358	1/1	0.90	0.14	47,47,47,47	0
56	MG	1a	3043	1/1	0.90	0.12	50,50,50,50	0
56	MG	2F	303	1/1	0.90	0.88	55,55,55,55	0
56	MG	2A	3366	1/1	0.90	0.14	67,67,67,67	0
56	MG	1A	3671	1/1	0.90	0.09	14,14,14,14	0
56	MG	2A	3375	1/1	0.90	0.11	36,36,36,36	0
56	MG	1A	3839	1/1	0.90	0.14	34,34,34,34	0
56	MG	2A	3381	1/1	0.90	0.18	33,33,33,33	0
56	MG	2T	3002	1/1	0.90	0.25	59,59,59,59	0
56	MG	2U	202	1/1	0.90	0.82	55,55,55,55	0
56	MG	1a	3047	1/1	0.90	0.28	46,46,46,46	0
56	MG	1a	3048	1/1	0.90	0.47	43,43,43,43	0
56	MG	2A	3073	1/1	0.90	0.16	38,38,38,38	0
56	MG	1A	4060	1/1	0.90	0.62	19,19,19,19	0
56	MG	2A	3400	1/1	0.90	0.25	72,72,72,72	0
56	MG	1A	3479	1/1	0.90	0.13	30,30,30,30	0
56	MG	25	503	1/1	0.90	0.41	40,40,40,40	0
56	MG	1A	3170	1/1	0.90	0.08	63,63,63,63	0
56	MG	1B	209	1/1	0.90	0.09	53,53,53,53	0
56	MG	27	102	1/1	0.90	0.17	47,47,47,47	0
56	MG	2A	3429	1/1	0.90	0.22	59,59,59,59	0
56	MG	1A	3859	1/1	0.90	0.12	61,61,61,61	0
56	MG	2A	3434	1/1	0.90	0.16	46,46,46,46	0
56	MG	1A	3861	1/1	0.90	0.13	58,58,58,58	0
56	MG	2A	3092	1/1	0.90	0.17	38,38,38,38	0
56	MG	1A	3495	1/1	0.90	0.10	31,31,31,31	0
56	MG	1a	3076	1/1	0.90	0.17	48,48,48,48	0
56	MG	2A	3097	1/1	0.90	0.14	42,42,42,42	0
56	MG	2A	3098	1/1	0.90	0.36	68,68,68,68	0
56	MG	1a	3077	1/1	0.90	0.09	42,42,42,42	0
56	MG	2A	3103	1/1	0.90	0.48	46,46,46,46	0
56	MG	2A	3480	1/1	0.90	0.21	47,47,47,47	0
56	MG	2A	3484	1/1	0.90	0.11	70,70,70,70	0
56	MG	2A	3111	1/1	0.90	0.21	36,36,36,36	0
56	MG	1A	3171	1/1	0.90	0.24	29,29,29,29	0
56	MG	1A	3127	1/1	0.90	0.15	37,37,37,37	0
56	MG	1A	3707	1/1	0.90	0.12	45,45,45,45	0
56	MG	1a	3092	1/1	0.90	0.11	55,55,55,55	0
56	MG	1A	3014	1/1	0.90	0.32	27,27,27,27	0
56	MG	2A	3136	1/1	0.90	0.15	36,36,36,36	0
56	MG	1a	3101	1/1	0.90	0.15	42,42,42,42	0
56	MG	1a	3109	1/1	0.90	0.17	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1B	231	1/1	0.90	0.24	59,59,59,59	0
56	MG	2A	3529	1/1	0.90	0.24	59,59,59,59	0
56	MG	1A	3900	1/1	0.90	0.13	44,44,44,44	0
56	MG	2A	3532	1/1	0.90	0.18	62,62,62,62	0
56	MG	1A	3027	1/1	0.90	0.35	27,27,27,27	0
56	MG	1a	3143	1/1	0.90	0.08	74,74,74,74	0
56	MG	2A	3167	1/1	0.90	0.14	42,42,42,42	0
56	MG	2A	3170	1/1	0.90	0.21	44,44,44,44	0
56	MG	1A	3271	1/1	0.90	0.14	53,53,53,53	0
56	MG	1A	3721	1/1	0.90	0.26	53,53,53,53	0
56	MG	2A	3177	1/1	0.90	0.31	36,36,36,36	0
56	MG	2A	3183	1/1	0.90	0.20	38,38,38,38	0
56	MG	1A	3531	1/1	0.90	0.13	19,19,19,19	0
56	MG	1E	301	1/1	0.90	0.59	26,26,26,26	0
56	MG	1A	3534	1/1	0.90	0.13	39,39,39,39	0
56	MG	1A	3203	1/1	0.90	0.16	27,27,27,27	0
56	MG	2a	1674	1/1	0.90	0.20	55,55,55,55	0
56	MG	1A	3746	1/1	0.90	0.31	49,49,49,49	0
56	MG	2a	1686	1/1	0.90	0.22	67,67,67,67	0
56	MG	2a	1693	1/1	0.90	0.31	75,75,75,75	0
56	MG	2A	3582	1/1	0.90	0.15	44,44,44,44	0
56	MG	1E	313	1/1	0.90	0.10	25,25,25,25	0
56	MG	2a	1700	1/1	0.90	0.28	62,62,62,62	0
56	MG	1A	3431	1/1	0.90	0.40	34,34,34,34	0
56	MG	2a	1704	1/1	0.90	0.18	52,52,52,52	0
56	MG	1F	307	1/1	0.90	0.12	40,40,40,40	0
56	MG	1F	308	1/1	0.90	0.11	42,42,42,42	0
56	MG	2a	1709	1/1	0.90	0.12	49,49,49,49	0
56	MG	1G	3001	1/1	0.90	0.14	29,29,29,29	0
56	MG	1A	3937	1/1	0.90	0.10	40,40,40,40	0
56	MG	2A	3613	1/1	0.90	0.11	61,61,61,61	0
56	MG	1N	203	1/1	0.90	0.13	51,51,51,51	0
56	MG	1A	3565	1/1	0.90	0.19	26,26,26,26	0
56	MG	1O	201	1/1	0.90	0.15	45,45,45,45	0
56	MG	2A	3218	1/1	0.90	0.14	39,39,39,39	0
56	MG	1A	3941	1/1	0.90	0.09	34,34,34,34	0
56	MG	1A	3314	1/1	0.90	0.34	42,42,42,42	0
56	MG	2a	1742	1/1	0.90	0.08	70,70,70,70	0
56	MG	1A	3036	1/1	0.90	0.21	26,26,26,26	0
56	MG	2A	3639	1/1	0.90	0.22	56,56,56,56	0
56	MG	2A	3646	1/1	0.90	0.13	59,59,59,59	0
56	MG	1A	3775	1/1	0.90	0.13	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	3108	1/1	0.90	0.15	25,25,25,25	0
56	MG	2A	3656	1/1	0.90	0.08	68,68,68,68	0
56	MG	2a	1762	1/1	0.90	0.13	52,52,52,52	0
56	MG	1A	3453	1/1	0.90	0.38	41,41,41,41	0
56	MG	2A	3232	1/1	0.90	0.12	54,54,54,54	0
56	MG	1w	102	1/1	0.90	0.10	76,76,76,76	0
56	MG	1A	3288	1/1	0.90	0.08	47,47,47,47	0
56	MG	2A	3245	1/1	0.90	0.11	59,59,59,59	0
56	MG	1A	3117	1/1	0.90	0.16	48,48,48,48	0
56	MG	2A	3688	1/1	0.90	0.14	57,57,57,57	0
56	MG	1w	107	1/1	0.90	0.30	64,64,64,64	0
56	MG	2A	3252	1/1	0.90	0.16	38,38,38,38	0
56	MG	2A	3692	1/1	0.90	0.07	52,52,52,52	0
56	MG	1A	3968	1/1	0.90	0.20	55,55,55,55	0
56	MG	1A	3121	1/1	0.90	0.39	33,33,33,33	0
56	MG	10	104	1/1	0.90	0.12	49,49,49,49	0
56	MG	2A	3705	1/1	0.90	0.19	64,64,64,64	0
56	MG	1A	3377	1/1	0.90	0.45	40,40,40,40	0
56	MG	2a	1820	1/1	0.90	0.21	60,60,60,60	0
56	MG	1A	3619	1/1	0.90	0.16	36,36,36,36	0
56	MG	11	104	1/1	0.90	0.10	59,59,59,59	0
56	MG	1x	110	1/1	0.90	0.12	59,59,59,59	0
56	MG	1A	3332	1/1	0.90	0.11	34,34,34,34	0
56	MG	1x	115	1/1	0.90	0.12	50,50,50,50	0
56	MG	1y	102	1/1	0.90	0.09	83,83,83,83	0
56	MG	2A	3735	1/1	0.90	0.35	45,45,45,45	0
56	MG	2l	204	1/1	0.90	0.12	43,43,43,43	0
56	MG	1A	3797	1/1	0.90	0.18	33,33,33,33	0
56	MG	1A	3622	1/1	0.90	0.08	56,56,56,56	0
56	MG	1A	3990	1/1	0.90	0.08	38,38,38,38	0
56	MG	2A	3008	1/1	0.90	0.14	34,34,34,34	0
56	MG	2A	3752	1/1	0.90	0.29	61,61,61,61	0
56	MG	1A	3296	1/1	0.90	0.12	37,37,37,37	0
56	MG	2A	3302	1/1	0.90	0.24	43,43,43,43	0
56	MG	2w	101	1/1	0.90	0.18	65,65,65,65	0
56	MG	1A	3998	1/1	0.90	0.13	55,55,55,55	0
56	MG	1A	4006	1/1	0.90	0.20	41,41,41,41	0
56	MG	1A	3803	1/1	0.90	0.34	41,41,41,41	0
56	MG	2A	3318	1/1	0.90	0.34	42,42,42,42	0
56	MG	1A	3411	1/1	0.90	0.12	45,45,45,45	0
56	MG	2A	3035	1/1	0.90	0.15	52,52,52,52	0
56	MG	1A	4015	1/1	0.90	0.19	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	1A	3815	1/1	0.90	0.08	35,35,35,35	0
56	MG	1A	3653	1/1	0.90	0.17	20,20,20,20	0
56	MG	2B	3017	1/1	0.90	0.20	61,61,61,61	0
56	MG	2A	3347	1/1	0.90	0.10	53,53,53,53	0
56	MG	1A	3658	1/1	0.90	0.10	46,46,46,46	0
56	MG	1a	3030	1/1	0.90	0.18	43,43,43,43	0
56	MG	1A	3958	1/1	0.91	0.17	32,32,32,32	0
56	MG	2A	3489	1/1	0.91	0.14	48,48,48,48	0
56	MG	1a	3190	1/1	0.91	0.16	51,51,51,51	0
56	MG	1A	3413	1/1	0.91	0.28	55,55,55,55	0
56	MG	1a	3194	1/1	0.91	0.08	59,59,59,59	0
56	MG	2A	3191	1/1	0.91	0.14	56,56,56,56	0
56	MG	1A	3188	1/1	0.91	0.10	12,12,12,12	0
56	MG	1A	3291	1/1	0.91	0.21	38,38,38,38	0
56	MG	2A	3195	1/1	0.91	0.28	50,50,50,50	0
56	MG	1T	201	1/1	0.91	0.18	42,42,42,42	0
56	MG	1A	3537	1/1	0.91	0.18	30,30,30,30	0
56	MG	1A	3769	1/1	0.91	0.16	15,15,15,15	0
56	MG	1A	3192	1/1	0.91	0.17	54,54,54,54	0
56	MG	1A	3417	1/1	0.91	0.16	42,42,42,42	0
56	MG	1A	3558	1/1	0.91	0.13	16,16,16,16	0
56	MG	1A	3563	1/1	0.91	0.08	35,35,35,35	0
56	MG	2A	3538	1/1	0.91	0.28	49,49,49,49	0
56	MG	2a	1611	1/1	0.91	0.10	65,65,65,65	0
56	MG	2A	3212	1/1	0.91	0.12	59,59,59,59	0
56	MG	1A	3783	1/1	0.91	0.27	31,31,31,31	0
56	MG	1A	3148	1/1	0.91	0.27	26,26,26,26	0
56	MG	2A	3217	1/1	0.91	0.28	51,51,51,51	0
56	MG	1A	3345	1/1	0.91	0.17	24,24,24,24	0
56	MG	2A	3219	1/1	0.91	0.32	54,54,54,54	0
56	MG	1A	3426	1/1	0.91	0.22	44,44,44,44	0
56	MG	2A	3551	1/1	0.91	0.22	48,48,48,48	0
56	MG	2A	3552	1/1	0.91	0.20	35,35,35,35	0
56	MG	2A	3221	1/1	0.91	0.16	54,54,54,54	0
56	MG	1A	3237	1/1	0.91	0.15	49,49,49,49	0
56	MG	1A	3429	1/1	0.91	0.38	29,29,29,29	0
56	MG	2a	1638	1/1	0.91	0.24	49,49,49,49	0
56	MG	2A	3226	1/1	0.91	0.33	42,42,42,42	0
56	MG	17	105	1/1	0.91	0.15	34,34,34,34	0
56	MG	2A	3572	1/1	0.91	0.22	66,66,66,66	0
56	MG	2A	3581	1/1	0.91	0.12	28,28,28,28	0
56	MG	19	502	1/1	0.91	0.16	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	2A	3584	1/1	0.91	0.32	50,50,50,50	0
56	MG	2a	1646	1/1	0.91	0.14	71,71,71,71	0
56	MG	1a	3001	1/1	0.91	0.14	52,52,52,52	0
56	MG	1A	3349	1/1	0.91	0.13	39,39,39,39	0
56	MG	2A	3234	1/1	0.91	0.33	47,47,47,47	0
56	MG	2A	3238	1/1	0.91	0.14	60,60,60,60	0
56	MG	1A	3241	1/1	0.91	0.14	58,58,58,58	0
56	MG	2a	1657	1/1	0.91	0.16	36,36,36,36	0
56	MG	2A	3607	1/1	0.91	0.13	48,48,48,48	0
56	MG	1A	3107	1/1	0.91	0.26	24,24,24,24	0
56	MG	1A	3595	1/1	0.91	0.14	40,40,40,40	0
56	MG	1A	4018	1/1	0.91	0.34	24,24,24,24	0
56	MG	2A	3248	1/1	0.91	0.18	44,44,44,44	0
56	MG	1A	4021	1/1	0.91	0.14	47,47,47,47	0
56	MG	2A	3619	1/1	0.91	0.09	60,60,60,60	0
56	MG	2a	1678	1/1	0.91	0.11	65,65,65,65	0
56	MG	1a	3022	1/1	0.91	0.09	48,48,48,48	0
56	MG	2a	1684	1/1	0.91	0.18	49,49,49,49	0
56	MG	1A	4025	1/1	0.91	0.22	24,24,24,24	0
56	MG	2a	1691	1/1	0.91	0.36	56,56,56,56	0
56	MG	2A	3635	1/1	0.91	0.14	57,57,57,57	0
56	MG	1A	3608	1/1	0.91	0.20	54,54,54,54	0
56	MG	2a	1696	1/1	0.91	0.15	48,48,48,48	0
56	MG	1A	3812	1/1	0.91	0.16	43,43,43,43	0
56	MG	1A	4045	1/1	0.91	0.60	39,39,39,39	0
56	MG	2A	3018	1/1	0.91	0.36	51,51,51,51	0
56	MG	1a	3036	1/1	0.91	0.10	49,49,49,49	0
56	MG	1A	3435	1/1	0.91	0.13	56,56,56,56	0
56	MG	1A	3618	1/1	0.91	0.16	55,55,55,55	0
56	MG	2A	3658	1/1	0.91	0.17	36,36,36,36	0
56	MG	2a	1710	1/1	0.91	0.15	64,64,64,64	0
56	MG	2a	1711	1/1	0.91	0.24	67,67,67,67	0
56	MG	2A	3273	1/1	0.91	0.35	57,57,57,57	0
56	MG	1A	3243	1/1	0.91	0.29	25,25,25,25	0
56	MG	2a	1715	1/1	0.91	0.15	50,50,50,50	0
56	MG	1A	3620	1/1	0.91	0.11	49,49,49,49	0
56	MG	2A	3036	1/1	0.91	0.19	48,48,48,48	0
56	MG	2a	1723	1/1	0.91	0.14	57,57,57,57	0
56	MG	2A	3042	1/1	0.91	0.15	54,54,54,54	0
56	MG	1A	3438	1/1	0.91	0.10	29,29,29,29	0
56	MG	2A	3289	1/1	0.91	0.21	53,53,53,53	0
56	MG	1A	3200	1/1	0.91	0.15	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	3450	1/1	0.91	0.11	40,40,40,40	0
56	MG	1A	3055	1/1	0.91	0.12	54,54,54,54	0
56	MG	1a	3053	1/1	0.91	0.17	56,56,56,56	0
56	MG	1a	3057	1/1	0.91	0.15	43,43,43,43	0
56	MG	1A	3249	1/1	0.91	0.35	31,31,31,31	0
56	MG	2A	3313	1/1	0.91	0.19	41,41,41,41	0
56	MG	2A	3708	1/1	0.91	0.17	63,63,63,63	0
56	MG	1A	3262	1/1	0.91	0.11	33,33,33,33	0
56	MG	2a	1759	1/1	0.91	0.17	50,50,50,50	0
56	MG	1A	3141	1/1	0.91	0.21	38,38,38,38	0
56	MG	2a	1765	1/1	0.91	0.14	64,64,64,64	0
56	MG	2a	1767	1/1	0.91	0.08	39,39,39,39	0
56	MG	1a	3068	1/1	0.91	0.14	62,62,62,62	0
56	MG	1A	3264	1/1	0.91	0.09	39,39,39,39	0
56	MG	1A	3370	1/1	0.91	0.21	37,37,37,37	0
56	MG	2A	3728	1/1	0.91	0.17	56,56,56,56	0
56	MG	2a	1778	1/1	0.91	0.21	68,68,68,68	0
56	MG	1A	3887	1/1	0.91	0.23	16,16,16,16	0
56	MG	2a	1786	1/1	0.91	0.12	66,66,66,66	0
56	MG	1A	3674	1/1	0.91	0.20	56,56,56,56	0
56	MG	1A	3371	1/1	0.91	0.23	39,39,39,39	0
56	MG	1A	3469	1/1	0.91	0.19	43,43,43,43	0
56	MG	2a	1796	1/1	0.91	0.15	54,54,54,54	0
56	MG	1A	3681	1/1	0.91	0.12	23,23,23,23	0
56	MG	2A	3742	1/1	0.91	0.34	52,52,52,52	0
56	MG	1D	303	1/1	0.91	0.27	26,26,26,26	0
56	MG	1a	3093	1/1	0.91	0.16	49,49,49,49	0
56	MG	2a	1804	1/1	0.91	0.10	48,48,48,48	0
56	MG	1A	3100	1/1	0.91	0.20	38,38,38,38	0
56	MG	1a	3100	1/1	0.91	0.11	61,61,61,61	0
56	MG	2A	3757	1/1	0.91	0.26	55,55,55,55	0
56	MG	2a	1818	1/1	0.91	0.10	48,48,48,48	0
56	MG	1A	3692	1/1	0.91	0.12	29,29,29,29	0
56	MG	2a	1821	1/1	0.91	0.18	66,66,66,66	0
56	MG	1A	3909	1/1	0.91	0.20	46,46,46,46	0
56	MG	1a	3123	1/1	0.91	0.13	60,60,60,60	0
56	MG	1A	3175	1/1	0.91	0.44	21,21,21,21	0
56	MG	1A	3379	1/1	0.91	0.39	53,53,53,53	0
56	MG	2a	1833	1/1	0.91	0.06	62,62,62,62	0
56	MG	2d	502	1/1	0.91	0.12	58,58,58,58	0
56	MG	2A	3384	1/1	0.91	0.11	27,27,27,27	0
56	MG	2A	3386	1/1	0.91	0.24	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	3491	1/1	0.91	0.19	17,17,17,17	0
56	MG	2A	3390	1/1	0.91	0.12	58,58,58,58	0
56	MG	2A	3392	1/1	0.91	0.13	33,33,33,33	0
56	MG	1a	3142	1/1	0.91	0.10	64,64,64,64	0
56	MG	2q	204	1/1	0.91	0.16	65,65,65,65	0
56	MG	1A	3923	1/1	0.91	0.24	39,39,39,39	0
56	MG	1A	3924	1/1	0.91	0.11	34,34,34,34	0
56	MG	1A	3397	1/1	0.91	0.15	51,51,51,51	0
56	MG	1a	3156	1/1	0.91	0.16	50,50,50,50	0
56	MG	2A	3139	1/1	0.91	0.13	41,41,41,41	0
56	MG	1A	3500	1/1	0.91	0.16	20,20,20,20	0
56	MG	1A	3222	1/1	0.91	0.23	51,51,51,51	0
56	MG	1A	3510	1/1	0.91	0.18	50,50,50,50	0
56	MG	1A	3224	1/1	0.91	0.16	42,42,42,42	0
56	MG	1A	3409	1/1	0.91	0.15	54,54,54,54	0
56	MG	1a	3174	1/1	0.91	0.08	51,51,51,51	0
56	MG	1A	3743	1/1	0.91	0.20	42,42,42,42	0
56	MG	1a	3176	1/1	0.91	0.10	59,59,59,59	0
56	MG	1A	3331	1/1	0.91	0.21	39,39,39,39	0
56	MG	2A	3458	1/1	0.91	0.22	40,40,40,40	0
56	MG	1A	3955	1/1	0.91	0.12	32,32,32,32	0
56	MG	2A	3176	1/1	0.91	0.24	41,41,41,41	0
56	MG	1a	3181	1/1	0.91	0.14	41,41,41,41	0
58	EZG	2A	3746	25/25	0.91	0.32	35,43,49,51	0
56	MG	2A	3483	1/1	0.91	0.15	59,59,59,59	0
56	MG	2Q	3002	1/1	0.92	0.21	41,41,41,41	0
56	MG	1A	3749	1/1	0.92	0.23	31,31,31,31	0
56	MG	2R	3001	1/1	0.92	0.50	58,58,58,58	0
56	MG	1a	3164	1/1	0.92	0.13	58,58,58,58	0
56	MG	2A	3446	1/1	0.92	0.14	32,32,32,32	0
56	MG	1A	3145	1/1	0.92	0.62	34,34,34,34	0
56	MG	2A	3449	1/1	0.92	0.11	63,63,63,63	0
56	MG	1A	3231	1/1	0.92	0.27	45,45,45,45	0
56	MG	2W	203	1/1	0.92	0.12	41,41,41,41	0
56	MG	1A	3945	1/1	0.92	0.34	30,30,30,30	0
56	MG	2A	3466	1/1	0.92	0.16	41,41,41,41	0
56	MG	1A	3194	1/1	0.92	0.21	35,35,35,35	0
56	MG	20	3003	1/1	0.92	0.11	56,56,56,56	0
56	MG	1A	3762	1/1	0.92	0.14	12,12,12,12	0
56	MG	23	101	1/1	0.92	0.61	54,54,54,54	0
56	MG	2A	3477	1/1	0.92	0.13	64,64,64,64	0
56	MG	2A	3478	1/1	0.92	0.60	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	1Q	205	1/1	0.92	0.11	28,28,28,28	0
56	MG	2A	3481	1/1	0.92	0.25	58,58,58,58	0
56	MG	1R	204	1/1	0.92	0.33	33,33,33,33	0
56	MG	1A	3298	1/1	0.92	0.16	40,40,40,40	0
56	MG	1A	3238	1/1	0.92	0.16	33,33,33,33	0
56	MG	2A	3490	1/1	0.92	0.07	72,72,72,72	0
56	MG	1A	3302	1/1	0.92	0.78	32,32,32,32	0
56	MG	2A	3187	1/1	0.92	0.26	54,54,54,54	0
56	MG	1a	3189	1/1	0.92	0.12	53,53,53,53	0
56	MG	1T	202	1/1	0.92	0.21	47,47,47,47	0
56	MG	2A	3502	1/1	0.92	0.16	42,42,42,42	0
56	MG	1A	3445	1/1	0.92	0.10	47,47,47,47	0
56	MG	1a	3193	1/1	0.92	0.16	47,47,47,47	0
56	MG	1A	3304	1/1	0.92	0.43	41,41,41,41	0
56	MG	2a	1614	1/1	0.92	0.09	52,52,52,52	0
56	MG	1a	3203	1/1	0.92	0.20	69,69,69,69	0
56	MG	1X	102	1/1	0.92	0.21	35,35,35,35	0
56	MG	1Y	502	1/1	0.92	0.10	67,67,67,67	0
56	MG	1A	3195	1/1	0.92	0.49	27,27,27,27	0
56	MG	2A	3204	1/1	0.92	0.15	43,43,43,43	0
56	MG	2a	1624	1/1	0.92	0.11	78,78,78,78	0
56	MG	1A	3072	1/1	0.92	0.31	27,27,27,27	0
56	MG	2A	3206	1/1	0.92	0.34	42,42,42,42	0
56	MG	1A	3970	1/1	0.92	0.05	53,53,53,53	0
56	MG	2a	1634	1/1	0.92	0.11	59,59,59,59	0
56	MG	1l	203	1/1	0.92	0.17	50,50,50,50	0
56	MG	2A	3210	1/1	0.92	0.35	58,58,58,58	0
56	MG	2A	3211	1/1	0.92	0.11	68,68,68,68	0
56	MG	1n	502	1/1	0.92	0.13	51,51,51,51	0
56	MG	1A	3786	1/1	0.92	0.11	34,34,34,34	0
56	MG	1q	201	1/1	0.92	0.08	50,50,50,50	0
56	MG	1A	3152	1/1	0.92	0.17	43,43,43,43	0
56	MG	1A	3374	1/1	0.92	0.41	40,40,40,40	0
56	MG	12	3001	1/1	0.92	0.15	44,44,44,44	0
56	MG	1A	3376	1/1	0.92	0.23	31,31,31,31	0
56	MG	1A	3985	1/1	0.92	0.17	60,60,60,60	0
56	MG	2A	3562	1/1	0.92	0.10	40,40,40,40	0
56	MG	1A	3460	1/1	0.92	0.10	41,41,41,41	0
56	MG	1A	3050	1/1	0.92	0.27	45,45,45,45	0
56	MG	2a	1653	1/1	0.92	0.07	67,67,67,67	0
56	MG	1A	3464	1/1	0.92	0.17	39,39,39,39	0
56	MG	1A	3991	1/1	0.92	0.14	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	1A	3024	1/1	0.92	0.12	32,32,32,32	0
56	MG	1A	3466	1/1	0.92	0.17	39,39,39,39	0
56	MG	1A	3380	1/1	0.92	0.29	33,33,33,33	0
56	MG	2a	1664	1/1	0.92	0.17	56,56,56,56	0
56	MG	1a	3011	1/1	0.92	0.14	41,41,41,41	0
56	MG	1a	3013	1/1	0.92	0.15	45,45,45,45	0
56	MG	2A	3588	1/1	0.92	0.09	52,52,52,52	0
56	MG	2A	3590	1/1	0.92	0.15	50,50,50,50	0
56	MG	2A	3591	1/1	0.92	0.12	34,34,34,34	0
56	MG	1A	3641	1/1	0.92	0.18	13,13,13,13	0
56	MG	1x	111	1/1	0.92	0.15	64,64,64,64	0
56	MG	1A	3472	1/1	0.92	0.14	41,41,41,41	0
56	MG	1A	3648	1/1	0.92	0.10	20,20,20,20	0
56	MG	2A	3609	1/1	0.92	0.22	36,36,36,36	0
56	MG	1A	3025	1/1	0.92	0.27	42,42,42,42	0
56	MG	1A	3825	1/1	0.92	0.47	43,43,43,43	0
56	MG	2A	3250	1/1	0.92	0.15	51,51,51,51	0
56	MG	1A	3476	1/1	0.92	0.13	27,27,27,27	0
56	MG	1A	3831	1/1	0.92	0.13	68,68,68,68	0
56	MG	1A	3666	1/1	0.92	0.05	50,50,50,50	0
56	MG	2A	3620	1/1	0.92	0.09	34,34,34,34	0
56	MG	1A	4036	1/1	0.92	0.56	29,29,29,29	0
56	MG	2A	3017	1/1	0.92	0.11	59,59,59,59	0
56	MG	1A	3261	1/1	0.92	0.10	35,35,35,35	0
56	MG	1A	3837	1/1	0.92	0.19	54,54,54,54	0
56	MG	2A	3022	1/1	0.92	0.18	38,38,38,38	0
56	MG	1A	3838	1/1	0.92	0.11	53,53,53,53	0
56	MG	2A	3640	1/1	0.92	0.24	47,47,47,47	0
56	MG	2A	3644	1/1	0.92	0.14	57,57,57,57	0
56	MG	2A	3269	1/1	0.92	0.14	36,36,36,36	0
56	MG	2A	3025	1/1	0.92	0.26	54,54,54,54	0
56	MG	2A	3652	1/1	0.92	0.16	38,38,38,38	0
56	MG	2a	1729	1/1	0.92	0.10	61,61,61,61	0
56	MG	2A	3276	1/1	0.92	0.21	58,58,58,58	0
56	MG	1A	3087	1/1	0.92	0.18	47,47,47,47	0
56	MG	2A	3657	1/1	0.92	0.20	41,41,41,41	0
56	MG	2A	3279	1/1	0.92	0.10	64,64,64,64	0
56	MG	1A	3482	1/1	0.92	0.28	38,38,38,38	0
56	MG	2a	1743	1/1	0.92	0.10	70,70,70,70	0
56	MG	1A	4059	1/1	0.92	0.26	22,22,22,22	0
56	MG	2a	1747	1/1	0.92	0.12	56,56,56,56	0
56	MG	2A	3283	1/1	0.92	0.14	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3110	1/1	0.92	0.17	27,27,27,27	0
56	MG	2A	3681	1/1	0.92	0.23	49,49,49,49	0
56	MG	1A	3849	1/1	0.92	0.27	35,35,35,35	0
56	MG	2A	3684	1/1	0.92	0.08	68,68,68,68	0
56	MG	2A	3685	1/1	0.92	0.14	41,41,41,41	0
56	MG	2a	1761	1/1	0.92	0.22	34,34,34,34	0
56	MG	1B	204	1/1	0.92	0.12	29,29,29,29	0
56	MG	2a	1764	1/1	0.92	0.17	51,51,51,51	0
56	MG	1A	3215	1/1	0.92	0.18	54,54,54,54	0
56	MG	1a	3055	1/1	0.92	0.14	49,49,49,49	0
56	MG	2A	3299	1/1	0.92	0.33	43,43,43,43	0
56	MG	2A	3691	1/1	0.92	0.11	68,68,68,68	0
56	MG	2A	3300	1/1	0.92	0.20	58,58,58,58	0
56	MG	1A	3265	1/1	0.92	0.18	26,26,26,26	0
56	MG	2a	1775	1/1	0.92	0.15	74,74,74,74	0
56	MG	2A	3697	1/1	0.92	0.28	50,50,50,50	0
56	MG	2a	1780	1/1	0.92	0.07	57,57,57,57	0
56	MG	2a	1783	1/1	0.92	0.11	62,62,62,62	0
56	MG	2A	3698	1/1	0.92	0.16	58,58,58,58	0
56	MG	1A	3876	1/1	0.92	0.21	34,34,34,34	0
56	MG	1A	3878	1/1	0.92	0.11	16,16,16,16	0
56	MG	1a	3063	1/1	0.92	0.16	53,53,53,53	0
56	MG	1A	3505	1/1	0.92	0.22	31,31,31,31	0
56	MG	2a	1793	1/1	0.92	0.14	53,53,53,53	0
56	MG	2A	3316	1/1	0.92	0.16	53,53,53,53	0
56	MG	1A	3217	1/1	0.92	0.29	19,19,19,19	0
56	MG	2a	1798	1/1	0.92	0.14	60,60,60,60	0
56	MG	1A	3218	1/1	0.92	0.07	23,23,23,23	0
56	MG	1A	3511	1/1	0.92	0.22	20,20,20,20	0
56	MG	1A	3889	1/1	0.92	0.14	39,39,39,39	0
56	MG	2A	3075	1/1	0.92	0.16	51,51,51,51	0
56	MG	1A	3698	1/1	0.92	0.12	41,41,41,41	0
56	MG	2A	3346	1/1	0.92	0.11	48,48,48,48	0
56	MG	2A	3733	1/1	0.92	0.17	30,30,30,30	0
56	MG	1A	3700	1/1	0.92	0.09	27,27,27,27	0
56	MG	2a	1819	1/1	0.92	0.08	52,52,52,52	0
56	MG	1A	3512	1/1	0.92	0.08	40,40,40,40	0
56	MG	1A	3708	1/1	0.92	0.10	42,42,42,42	0
56	MG	1A	3280	1/1	0.92	0.50	26,26,26,26	0
56	MG	2A	3743	1/1	0.92	0.19	51,51,51,51	0
56	MG	1A	3219	1/1	0.92	0.29	19,19,19,19	0
56	MG	1D	311	1/1	0.92	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	1A	3420	1/1	0.92	0.13	49,49,49,49	0
56	MG	1A	3179	1/1	0.92	0.37	23,23,23,23	0
56	MG	1A	3284	1/1	0.92	0.20	42,42,42,42	0
56	MG	1a	3111	1/1	0.92	0.17	45,45,45,45	0
56	MG	1a	3112	1/1	0.92	0.09	48,48,48,48	0
56	MG	1A	3183	1/1	0.92	0.09	39,39,39,39	0
56	MG	2A	3382	1/1	0.92	0.24	46,46,46,46	0
56	MG	1A	3921	1/1	0.92	0.21	43,43,43,43	0
56	MG	1A	3922	1/1	0.92	0.09	49,49,49,49	0
56	MG	2A	3116	1/1	0.92	0.11	55,55,55,55	0
56	MG	1a	3134	1/1	0.92	0.22	47,47,47,47	0
56	MG	2A	3125	1/1	0.92	0.32	32,32,32,32	0
56	MG	1A	3739	1/1	0.92	0.34	29,29,29,29	0
56	MG	1A	3071	1/1	0.92	0.14	31,31,31,31	0
56	MG	1A	3292	1/1	0.92	0.17	43,43,43,43	0
56	MG	2A	3134	1/1	0.92	0.08	51,51,51,51	0
56	MG	2A	3402	1/1	0.92	0.15	49,49,49,49	0
56	MG	2D	306	1/1	0.92	0.66	43,43,43,43	0
56	MG	2A	3408	1/1	0.92	0.09	53,53,53,53	0
56	MG	2A	3410	1/1	0.92	0.31	61,61,61,61	0
56	MG	1A	3744	1/1	0.92	0.12	41,41,41,41	0
56	MG	1a	3150	1/1	0.92	0.11	65,65,65,65	0
56	MG	1G	3005	1/1	0.92	0.08	52,52,52,52	0
56	MG	2F	301	1/1	0.92	0.16	35,35,35,35	0
56	MG	2A	3147	1/1	0.92	0.28	50,50,50,50	0
56	MG	2A	3155	1/1	0.92	0.09	34,34,34,34	0
56	MG	1A	3190	1/1	0.92	0.08	43,43,43,43	0
56	MG	1A	3938	1/1	0.92	0.26	40,40,40,40	0
56	MG	2A	3159	1/1	0.92	0.14	50,50,50,50	0
56	MG	1A	3391	1/1	0.93	0.16	46,46,46,46	0
56	MG	2A	3145	1/1	0.93	0.15	48,48,48,48	0
56	MG	1O	206	1/1	0.93	0.36	60,60,60,60	0
56	MG	2A	3153	1/1	0.93	0.16	49,49,49,49	0
56	MG	1A	3953	1/1	0.93	0.15	40,40,40,40	0
56	MG	1A	3239	1/1	0.93	0.28	38,38,38,38	0
56	MG	2A	3445	1/1	0.93	0.10	47,47,47,47	0
56	MG	2R	3002	1/1	0.93	0.25	56,56,56,56	0
56	MG	1a	3157	1/1	0.93	0.13	58,58,58,58	0
56	MG	1a	3159	1/1	0.93	0.14	41,41,41,41	0
56	MG	2T	3003	1/1	0.93	0.11	41,41,41,41	0
56	MG	1A	3957	1/1	0.93	0.12	55,55,55,55	0
56	MG	2A	3456	1/1	0.93	0.17	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2U	204	1/1	0.93	0.83	60,60,60,60	0
56	MG	2A	3161	1/1	0.93	0.36	46,46,46,46	0
56	MG	1A	3098	1/1	0.93	0.51	36,36,36,36	0
56	MG	2A	3460	1/1	0.93	0.15	39,39,39,39	0
56	MG	1A	3628	1/1	0.93	0.13	16,16,16,16	0
56	MG	2A	3467	1/1	0.93	0.22	28,28,28,28	0
56	MG	1A	3631	1/1	0.93	0.16	32,32,32,32	0
56	MG	2A	3471	1/1	0.93	0.20	37,37,37,37	0
56	MG	2A	3168	1/1	0.93	0.11	39,39,39,39	0
56	MG	2A	3476	1/1	0.93	0.12	44,44,44,44	0
56	MG	1a	3166	1/1	0.93	0.08	49,49,49,49	0
56	MG	1S	3002	1/1	0.93	0.20	36,36,36,36	0
56	MG	1A	3405	1/1	0.93	0.60	46,46,46,46	0
56	MG	1A	3798	1/1	0.93	0.26	45,45,45,45	0
56	MG	1A	3202	1/1	0.93	0.29	27,27,27,27	0
56	MG	2A	3178	1/1	0.93	0.17	44,44,44,44	0
56	MG	2A	3486	1/1	0.93	0.12	53,53,53,53	0
56	MG	2A	3179	1/1	0.93	0.17	45,45,45,45	0
56	MG	1V	201	1/1	0.93	0.10	40,40,40,40	0
56	MG	2A	3184	1/1	0.93	0.31	52,52,52,52	0
56	MG	1A	3336	1/1	0.93	0.25	35,35,35,35	0
56	MG	1A	3048	1/1	0.93	0.45	42,42,42,42	0
56	MG	1A	3340	1/1	0.93	0.13	47,47,47,47	0
56	MG	1A	3811	1/1	0.93	0.08	32,32,32,32	0
56	MG	2A	3503	1/1	0.93	0.16	54,54,54,54	0
56	MG	2A	3506	1/1	0.93	0.13	48,48,48,48	0
56	MG	1Z	3001	1/1	0.93	0.26	42,42,42,42	0
56	MG	1A	3244	1/1	0.93	0.24	34,34,34,34	0
56	MG	1A	3344	1/1	0.93	0.37	31,31,31,31	0
56	MG	2A	3517	1/1	0.93	0.09	51,51,51,51	0
56	MG	10	103	1/1	0.93	0.15	54,54,54,54	0
56	MG	1A	3817	1/1	0.93	0.13	20,20,20,20	0
56	MG	2A	3523	1/1	0.93	0.14	37,37,37,37	0
56	MG	2a	1630	1/1	0.93	0.23	57,57,57,57	0
56	MG	1A	3819	1/1	0.93	0.11	29,29,29,29	0
56	MG	2A	3199	1/1	0.93	0.12	53,53,53,53	0
56	MG	1A	3493	1/1	0.93	0.32	23,23,23,23	0
56	MG	1A	3172	1/1	0.93	0.40	44,44,44,44	0
56	MG	2A	3535	1/1	0.93	0.14	27,27,27,27	0
56	MG	1A	3993	1/1	0.93	0.30	44,44,44,44	0
56	MG	1a	3214	1/1	0.93	0.40	58,58,58,58	0
56	MG	1A	3101	1/1	0.93	0.44	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	15	106	1/1	0.93	0.24	19,19,19,19	0
56	MG	1A	3347	1/1	0.93	0.14	42,42,42,42	0
56	MG	2a	1643	1/1	0.93	0.21	61,61,61,61	0
56	MG	1A	3020	1/1	0.93	0.15	18,18,18,18	0
56	MG	1n	503	1/1	0.93	0.08	38,38,38,38	0
56	MG	1A	3424	1/1	0.93	0.56	32,32,32,32	0
56	MG	1A	3835	1/1	0.93	0.17	42,42,42,42	0
56	MG	1A	4014	1/1	0.93	0.34	33,33,33,33	0
56	MG	2A	3216	1/1	0.93	0.15	51,51,51,51	0
56	MG	1s	101	1/1	0.93	0.20	62,62,62,62	0
56	MG	1A	3836	1/1	0.93	0.09	56,56,56,56	0
56	MG	1A	3251	1/1	0.93	0.42	25,25,25,25	0
56	MG	2A	3565	1/1	0.93	0.12	45,45,45,45	0
56	MG	2a	1658	1/1	0.93	0.12	59,59,59,59	0
56	MG	1A	3301	1/1	0.93	0.12	39,39,39,39	0
56	MG	1a	3010	1/1	0.93	0.09	45,45,45,45	0
56	MG	2A	3222	1/1	0.93	0.16	44,44,44,44	0
56	MG	1A	3252	1/1	0.93	0.29	32,32,32,32	0
56	MG	2A	3224	1/1	0.93	0.16	54,54,54,54	0
56	MG	1A	3182	1/1	0.93	0.20	33,33,33,33	0
56	MG	2a	1669	1/1	0.93	0.23	56,56,56,56	0
56	MG	1A	3105	1/1	0.93	0.24	30,30,30,30	0
56	MG	2a	1673	1/1	0.93	0.10	57,57,57,57	0
56	MG	1A	3058	1/1	0.93	0.19	33,33,33,33	0
56	MG	1A	3851	1/1	0.93	0.18	44,44,44,44	0
56	MG	1A	3705	1/1	0.93	0.17	39,39,39,39	0
56	MG	2a	1682	1/1	0.93	0.08	48,48,48,48	0
56	MG	1A	3860	1/1	0.93	0.27	54,54,54,54	0
56	MG	2a	1685	1/1	0.93	0.10	53,53,53,53	0
56	MG	2A	3233	1/1	0.93	0.26	42,42,42,42	0
56	MG	2a	1688	1/1	0.93	0.14	53,53,53,53	0
56	MG	1x	102	1/1	0.93	0.26	49,49,49,49	0
56	MG	2A	3593	1/1	0.93	0.16	47,47,47,47	0
56	MG	2A	3595	1/1	0.93	0.09	59,59,59,59	0
56	MG	2a	1695	1/1	0.93	0.16	56,56,56,56	0
56	MG	2A	3603	1/1	0.93	0.11	37,37,37,37	0
56	MG	1A	3365	1/1	0.93	0.21	39,39,39,39	0
56	MG	1A	3867	1/1	0.93	0.14	19,19,19,19	0
56	MG	1A	3869	1/1	0.93	0.19	19,19,19,19	0
56	MG	2a	1702	1/1	0.93	0.14	56,56,56,56	0
56	MG	1a	3029	1/1	0.93	0.10	49,49,49,49	0
56	MG	1A	3872	1/1	0.93	0.33	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	2a	1707	1/1	0.93	0.22	68,68,68,68	0
56	MG	1a	3032	1/1	0.93	0.19	54,54,54,54	0
56	MG	2A	3614	1/1	0.93	0.12	51,51,51,51	0
56	MG	1A	3434	1/1	0.93	0.17	47,47,47,47	0
56	MG	1A	3060	1/1	0.93	0.08	26,26,26,26	0
56	MG	1a	3040	1/1	0.93	0.12	41,41,41,41	0
56	MG	2A	3253	1/1	0.93	0.54	68,68,68,68	0
56	MG	2A	3254	1/1	0.93	0.17	34,34,34,34	0
56	MG	2A	3255	1/1	0.93	0.22	54,54,54,54	0
56	MG	2A	3625	1/1	0.93	0.08	52,52,52,52	0
56	MG	2A	3628	1/1	0.93	0.20	40,40,40,40	0
56	MG	1B	207	1/1	0.93	0.43	40,40,40,40	0
56	MG	2A	3006	1/1	0.93	0.08	44,44,44,44	0
56	MG	2a	1730	1/1	0.93	0.11	65,65,65,65	0
56	MG	1A	3712	1/1	0.93	0.25	34,34,34,34	0
56	MG	2A	3011	1/1	0.93	0.15	54,54,54,54	0
56	MG	2a	1737	1/1	0.93	0.04	57,57,57,57	0
56	MG	2A	3013	1/1	0.93	0.13	27,27,27,27	0
56	MG	2a	1739	1/1	0.93	0.14	57,57,57,57	0
56	MG	2A	3262	1/1	0.93	0.14	44,44,44,44	0
56	MG	1A	3144	1/1	0.93	0.13	37,37,37,37	0
56	MG	1A	3715	1/1	0.93	0.10	23,23,23,23	0
56	MG	1A	3019	1/1	0.93	0.16	32,32,32,32	0
56	MG	1A	3555	1/1	0.93	0.09	29,29,29,29	0
56	MG	1A	3109	1/1	0.93	0.41	50,50,50,50	0
56	MG	1a	3052	1/1	0.93	0.10	58,58,58,58	0
56	MG	1B	218	1/1	0.93	0.19	40,40,40,40	0
56	MG	1A	3897	1/1	0.93	0.14	44,44,44,44	0
56	MG	1A	3559	1/1	0.93	0.20	15,15,15,15	0
56	MG	2a	1757	1/1	0.93	0.12	48,48,48,48	0
56	MG	2A	3663	1/1	0.93	0.17	47,47,47,47	0
56	MG	2a	1760	1/1	0.93	0.24	60,60,60,60	0
56	MG	1B	228	1/1	0.93	0.15	24,24,24,24	0
56	MG	1A	3737	1/1	0.93	0.14	29,29,29,29	0
56	MG	2A	3037	1/1	0.93	0.11	61,61,61,61	0
56	MG	1A	3902	1/1	0.93	0.10	55,55,55,55	0
56	MG	1A	3560	1/1	0.93	0.23	26,26,26,26	0
56	MG	2A	3683	1/1	0.93	0.28	42,42,42,42	0
56	MG	1A	3441	1/1	0.93	0.07	49,49,49,49	0
56	MG	1A	3444	1/1	0.93	0.14	18,18,18,18	0
56	MG	2A	3298	1/1	0.93	0.12	50,50,50,50	0
56	MG	1a	3072	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	3093	1/1	0.93	0.09	31,31,31,31	0
56	MG	2A	3050	1/1	0.93	0.14	38,38,38,38	0
56	MG	2A	3305	1/1	0.93	0.15	51,51,51,51	0
56	MG	1A	3447	1/1	0.93	0.32	47,47,47,47	0
56	MG	2A	3308	1/1	0.93	0.15	54,54,54,54	0
56	MG	2A	3309	1/1	0.93	0.15	52,52,52,52	0
56	MG	1A	3570	1/1	0.93	0.19	57,57,57,57	0
56	MG	2A	3057	1/1	0.93	0.13	47,47,47,47	0
56	MG	1A	3758	1/1	0.93	0.13	32,32,32,32	0
56	MG	2a	1795	1/1	0.93	0.37	64,64,64,64	0
56	MG	2A	3703	1/1	0.93	0.14	50,50,50,50	0
56	MG	1A	3030	1/1	0.93	0.59	20,20,20,20	0
56	MG	1a	3088	1/1	0.93	0.06	57,57,57,57	0
56	MG	1A	3199	1/1	0.93	0.52	32,32,32,32	0
56	MG	1a	3091	1/1	0.93	0.22	46,46,46,46	0
56	MG	1E	307	1/1	0.93	0.55	50,50,50,50	0
56	MG	2A	3331	1/1	0.93	0.16	47,47,47,47	0
56	MG	2A	3722	1/1	0.93	0.14	47,47,47,47	0
56	MG	2a	1807	1/1	0.93	0.11	61,61,61,61	0
56	MG	1A	3118	1/1	0.93	0.11	29,29,29,29	0
56	MG	2a	1811	1/1	0.93	0.15	71,71,71,71	0
56	MG	2A	3334	1/1	0.93	0.28	58,58,58,58	0
56	MG	2A	3079	1/1	0.93	0.09	57,57,57,57	0
56	MG	1A	3287	1/1	0.93	0.13	30,30,30,30	0
56	MG	1a	3099	1/1	0.93	0.10	72,72,72,72	0
56	MG	1A	3329	1/1	0.93	0.10	41,41,41,41	0
56	MG	1A	3933	1/1	0.93	0.14	54,54,54,54	0
56	MG	1a	3103	1/1	0.93	0.07	46,46,46,46	0
56	MG	1a	3104	1/1	0.93	0.17	45,45,45,45	0
56	MG	1a	3105	1/1	0.93	0.11	59,59,59,59	0
56	MG	1A	3330	1/1	0.93	0.17	28,28,28,28	0
56	MG	2A	3361	1/1	0.93	0.11	46,46,46,46	0
56	MG	1A	3772	1/1	0.93	0.20	22,22,22,22	0
56	MG	1A	3596	1/1	0.93	0.19	44,44,44,44	0
56	MG	2l	201	1/1	0.93	0.23	51,51,51,51	0
56	MG	2A	3756	1/1	0.93	0.14	33,33,33,33	0
56	MG	2l	203	1/1	0.93	0.17	62,62,62,62	0
56	MG	2A	3099	1/1	0.93	0.10	38,38,38,38	0
56	MG	1a	3115	1/1	0.93	0.13	48,48,48,48	0
56	MG	2A	3377	1/1	0.93	0.20	37,37,37,37	0
56	MG	1a	3116	1/1	0.93	0.09	35,35,35,35	0
56	MG	2A	3106	1/1	0.93	0.08	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	3108	1/1	0.93	0.30	49,49,49,49	0
56	MG	1a	3117	1/1	0.93	0.09	27,27,27,27	0
56	MG	1A	3603	1/1	0.93	0.16	43,43,43,43	0
56	MG	1a	3128	1/1	0.93	0.09	50,50,50,50	0
56	MG	1I	3001	1/1	0.93	0.31	64,64,64,64	0
56	MG	2A	3118	1/1	0.93	0.19	42,42,42,42	0
56	MG	1N	201	1/1	0.93	0.54	45,45,45,45	0
56	MG	2A	3126	1/1	0.93	0.17	50,50,50,50	0
56	MG	2A	3127	1/1	0.93	0.22	56,56,56,56	0
56	MG	2D	302	1/1	0.93	0.16	39,39,39,39	0
56	MG	1A	3383	1/1	0.93	0.18	42,42,42,42	0
56	MG	2A	3406	1/1	0.93	0.13	40,40,40,40	0
56	MG	1a	3139	1/1	0.93	0.20	56,56,56,56	0
56	MG	1A	3386	1/1	0.93	0.10	33,33,33,33	0
56	MG	2A	3416	1/1	0.93	0.13	40,40,40,40	0
56	MG	1A	3463	1/1	0.93	0.38	38,38,38,38	0
56	MG	2A	3135	1/1	0.93	0.25	49,49,49,49	0
56	MG	1A	3387	1/1	0.93	0.20	37,37,37,37	0
56	MG	1a	3146	1/1	0.93	0.16	64,64,64,64	0
56	MG	1A	4011	1/1	0.94	0.21	37,37,37,37	0
56	MG	1A	3089	1/1	0.94	0.15	21,21,21,21	0
56	MG	1A	4013	1/1	0.94	0.13	21,21,21,21	0
56	MG	1A	3158	1/1	0.94	0.17	31,31,31,31	0
56	MG	1A	3646	1/1	0.94	0.16	19,19,19,19	0
56	MG	2A	3314	1/1	0.94	0.37	40,40,40,40	0
56	MG	1A	3826	1/1	0.94	0.16	27,27,27,27	0
56	MG	1A	3827	1/1	0.94	0.13	47,47,47,47	0
56	MG	1A	3478	1/1	0.94	0.20	47,47,47,47	0
56	MG	1A	3407	1/1	0.94	0.08	45,45,45,45	0
56	MG	2A	3326	1/1	0.94	0.11	48,48,48,48	0
56	MG	2A	3755	1/1	0.94	0.81	48,48,48,48	0
56	MG	1A	3159	1/1	0.94	0.34	36,36,36,36	0
56	MG	1A	4029	1/1	0.94	0.33	36,36,36,36	0
56	MG	1A	3335	1/1	0.94	0.43	33,33,33,33	0
56	MG	1A	4037	1/1	0.94	0.55	28,28,28,28	0
56	MG	1A	3487	1/1	0.94	0.13	34,34,34,34	0
56	MG	2B	3007	1/1	0.94	0.10	56,56,56,56	0
56	MG	2A	3339	1/1	0.94	0.10	58,58,58,58	0
56	MG	2A	3340	1/1	0.94	0.19	30,30,30,30	0
56	MG	1A	4042	1/1	0.94	0.13	40,40,40,40	0
56	MG	2A	3054	1/1	0.94	0.41	53,53,53,53	0
56	MG	2A	3055	1/1	0.94	0.16	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3351	1/1	0.94	0.13	43,43,43,43	0
56	MG	2A	3056	1/1	0.94	0.09	52,52,52,52	0
56	MG	1A	4043	1/1	0.94	0.45	23,23,23,23	0
56	MG	1a	3051	1/1	0.94	0.12	55,55,55,55	0
56	MG	2A	3357	1/1	0.94	0.15	21,21,21,21	0
56	MG	2A	3061	1/1	0.94	0.17	30,30,30,30	0
56	MG	2A	3064	1/1	0.94	0.44	44,44,44,44	0
56	MG	1A	3488	1/1	0.94	0.12	23,23,23,23	0
56	MG	1A	3410	1/1	0.94	0.12	45,45,45,45	0
56	MG	2A	3373	1/1	0.94	0.17	25,25,25,25	0
56	MG	2A	3070	1/1	0.94	0.15	33,33,33,33	0
56	MG	1A	3673	1/1	0.94	0.13	54,54,54,54	0
56	MG	1A	4049	1/1	0.94	0.77	30,30,30,30	0
56	MG	1A	4052	1/1	0.94	0.40	31,31,31,31	0
56	MG	2A	3378	1/1	0.94	0.16	25,25,25,25	0
56	MG	1a	3060	1/1	0.94	0.07	50,50,50,50	0
56	MG	1A	3092	1/1	0.94	0.17	44,44,44,44	0
56	MG	2A	3080	1/1	0.94	0.11	28,28,28,28	0
56	MG	1a	3062	1/1	0.94	0.08	36,36,36,36	0
56	MG	2O	8002	1/1	0.94	0.12	52,52,52,52	0
56	MG	1A	4054	1/1	0.94	0.47	37,37,37,37	0
56	MG	1A	3841	1/1	0.94	0.14	33,33,33,33	0
56	MG	1a	3067	1/1	0.94	0.16	46,46,46,46	0
56	MG	1A	3168	1/1	0.94	0.19	43,43,43,43	0
56	MG	2R	3004	1/1	0.94	0.19	49,49,49,49	0
56	MG	1A	4062	1/1	0.94	0.13	21,21,21,21	0
56	MG	1A	3039	1/1	0.94	0.18	26,26,26,26	0
56	MG	1B	202	1/1	0.94	0.24	42,42,42,42	0
56	MG	2U	201	1/1	0.94	0.08	49,49,49,49	0
56	MG	1B	203	1/1	0.94	0.20	39,39,39,39	0
56	MG	1A	3845	1/1	0.94	0.30	42,42,42,42	0
56	MG	1A	3504	1/1	0.94	0.08	48,48,48,48	0
56	MG	2V	3001	1/1	0.94	0.39	46,46,46,46	0
56	MG	2V	3002	1/1	0.94	0.13	56,56,56,56	0
56	MG	2W	201	1/1	0.94	0.16	50,50,50,50	0
56	MG	2A	3409	1/1	0.94	0.11	54,54,54,54	0
56	MG	2A	3101	1/1	0.94	0.17	30,30,30,30	0
56	MG	2X	3001	1/1	0.94	0.14	46,46,46,46	0
56	MG	2A	3414	1/1	0.94	0.14	49,49,49,49	0
56	MG	1A	3687	1/1	0.94	0.11	33,33,33,33	0
56	MG	2A	3417	1/1	0.94	0.18	35,35,35,35	0
56	MG	1A	3857	1/1	0.94	0.16	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	2A	3421	1/1	0.94	0.11	39,39,39,39	0
56	MG	2A	3104	1/1	0.94	0.12	51,51,51,51	0
56	MG	25	502	1/1	0.94	0.59	47,47,47,47	0
56	MG	1A	3043	1/1	0.94	0.15	19,19,19,19	0
56	MG	1a	3090	1/1	0.94	0.07	41,41,41,41	0
56	MG	2A	3431	1/1	0.94	0.17	24,24,24,24	0
56	MG	2A	3432	1/1	0.94	0.30	56,56,56,56	0
56	MG	2A	3110	1/1	0.94	0.18	37,37,37,37	0
56	MG	1A	3004	1/1	0.94	0.16	21,21,21,21	0
56	MG	2A	3435	1/1	0.94	0.11	47,47,47,47	0
56	MG	2A	3112	1/1	0.94	0.12	52,52,52,52	0
56	MG	2A	3113	1/1	0.94	0.21	48,48,48,48	0
56	MG	1A	3695	1/1	0.94	0.21	50,50,50,50	0
56	MG	2A	3442	1/1	0.94	0.17	23,23,23,23	0
56	MG	2a	1608	1/1	0.94	0.14	47,47,47,47	0
56	MG	1A	3205	1/1	0.94	0.59	28,28,28,28	0
56	MG	2A	3444	1/1	0.94	0.20	42,42,42,42	0
56	MG	1B	214	1/1	0.94	0.11	42,42,42,42	0
56	MG	1B	215	1/1	0.94	0.06	34,34,34,34	0
56	MG	2A	3121	1/1	0.94	0.15	31,31,31,31	0
56	MG	2A	3123	1/1	0.94	0.07	58,58,58,58	0
56	MG	1A	3073	1/1	0.94	0.48	42,42,42,42	0
56	MG	1A	3208	1/1	0.94	0.14	29,29,29,29	0
56	MG	1B	224	1/1	0.94	0.09	54,54,54,54	0
56	MG	1B	225	1/1	0.94	0.17	57,57,57,57	0
56	MG	2A	3461	1/1	0.94	0.15	45,45,45,45	0
56	MG	2a	1622	1/1	0.94	0.40	39,39,39,39	0
56	MG	2a	1623	1/1	0.94	0.14	46,46,46,46	0
56	MG	2A	3130	1/1	0.94	0.20	51,51,51,51	0
56	MG	1A	3704	1/1	0.94	0.25	28,28,28,28	0
56	MG	2a	1628	1/1	0.94	0.30	49,49,49,49	0
56	MG	1A	3174	1/1	0.94	0.39	32,32,32,32	0
56	MG	2A	3470	1/1	0.94	0.22	53,53,53,53	0
56	MG	1A	3706	1/1	0.94	0.11	27,27,27,27	0
56	MG	1B	230	1/1	0.94	0.31	42,42,42,42	0
56	MG	1A	3514	1/1	0.94	0.17	21,21,21,21	0
56	MG	1A	3210	1/1	0.94	0.42	25,25,25,25	0
56	MG	1A	3885	1/1	0.94	0.12	16,16,16,16	0
56	MG	2A	3142	1/1	0.94	0.13	46,46,46,46	0
56	MG	1A	3709	1/1	0.94	0.17	30,30,30,30	0
56	MG	2A	3146	1/1	0.94	0.15	50,50,50,50	0
56	MG	1a	3124	1/1	0.94	0.13	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	2A	3485	1/1	0.94	0.22	56,56,56,56	0
56	MG	2A	3152	1/1	0.94	0.18	45,45,45,45	0
56	MG	1a	3126	1/1	0.94	0.13	46,46,46,46	0
56	MG	2A	3154	1/1	0.94	0.32	51,51,51,51	0
56	MG	1D	302	1/1	0.94	0.19	21,21,21,21	0
56	MG	1A	3710	1/1	0.94	0.20	28,28,28,28	0
56	MG	2A	3495	1/1	0.94	0.28	60,60,60,60	0
56	MG	2A	3157	1/1	0.94	0.11	51,51,51,51	0
56	MG	2a	1652	1/1	0.94	0.09	55,55,55,55	0
56	MG	1A	3521	1/1	0.94	0.09	50,50,50,50	0
56	MG	2a	1654	1/1	0.94	0.27	58,58,58,58	0
56	MG	1A	3352	1/1	0.94	0.18	36,36,36,36	0
56	MG	1a	3135	1/1	0.94	0.12	52,52,52,52	0
56	MG	1A	3526	1/1	0.94	0.22	42,42,42,42	0
56	MG	1A	3134	1/1	0.94	0.46	30,30,30,30	0
56	MG	1A	3256	1/1	0.94	0.10	33,33,33,33	0
56	MG	1A	3303	1/1	0.94	0.16	44,44,44,44	0
56	MG	1a	3144	1/1	0.94	0.19	66,66,66,66	0
56	MG	1A	3536	1/1	0.94	0.08	25,25,25,25	0
56	MG	1a	3147	1/1	0.94	0.05	58,58,58,58	0
56	MG	1a	3148	1/1	0.94	0.09	55,55,55,55	0
56	MG	2a	1670	1/1	0.94	0.11	55,55,55,55	0
56	MG	1A	3075	1/1	0.94	0.13	34,34,34,34	0
56	MG	2a	1672	1/1	0.94	0.17	50,50,50,50	0
56	MG	2A	3528	1/1	0.94	0.08	58,58,58,58	0
56	MG	1A	3076	1/1	0.94	0.25	26,26,26,26	0
56	MG	2a	1675	1/1	0.94	0.07	53,53,53,53	0
56	MG	2a	1677	1/1	0.94	0.15	55,55,55,55	0
56	MG	1F	303	1/1	0.94	0.19	35,35,35,35	0
56	MG	2A	3531	1/1	0.94	0.11	60,60,60,60	0
56	MG	1a	3155	1/1	0.94	0.18	53,53,53,53	0
56	MG	2A	3181	1/1	0.94	0.16	35,35,35,35	0
56	MG	2A	3182	1/1	0.94	0.64	43,43,43,43	0
56	MG	1A	3080	1/1	0.94	0.24	41,41,41,41	0
56	MG	1A	3307	1/1	0.94	0.10	49,49,49,49	0
56	MG	2a	1690	1/1	0.94	0.07	57,57,57,57	0
56	MG	1A	3919	1/1	0.94	0.15	42,42,42,42	0
56	MG	2A	3543	1/1	0.94	0.13	45,45,45,45	0
56	MG	1A	3029	1/1	0.94	0.36	17,17,17,17	0
56	MG	1G	3004	1/1	0.94	0.11	38,38,38,38	0
56	MG	1A	3005	1/1	0.94	0.13	36,36,36,36	0
56	MG	1A	3369	1/1	0.94	0.11	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	3747	1/1	0.94	0.08	31,31,31,31	0
56	MG	1a	3167	1/1	0.94	0.07	42,42,42,42	0
56	MG	1A	3311	1/1	0.94	0.19	37,37,37,37	0
56	MG	2A	3554	1/1	0.94	0.14	24,24,24,24	0
56	MG	1A	3928	1/1	0.94	0.17	37,37,37,37	0
56	MG	2A	3559	1/1	0.94	0.16	61,61,61,61	0
56	MG	2A	3197	1/1	0.94	0.14	39,39,39,39	0
56	MG	1A	3751	1/1	0.94	0.32	23,23,23,23	0
56	MG	2A	3563	1/1	0.94	0.19	55,55,55,55	0
56	MG	1A	3756	1/1	0.94	0.65	27,27,27,27	0
56	MG	1A	3934	1/1	0.94	0.16	22,22,22,22	0
56	MG	1A	3564	1/1	0.94	0.21	36,36,36,36	0
56	MG	1a	3178	1/1	0.94	0.06	54,54,54,54	0
56	MG	2a	1716	1/1	0.94	0.18	43,43,43,43	0
56	MG	1A	3443	1/1	0.94	0.15	32,32,32,32	0
56	MG	2a	1720	1/1	0.94	0.18	66,66,66,66	0
56	MG	2A	3573	1/1	0.94	0.30	37,37,37,37	0
56	MG	2A	3574	1/1	0.94	0.07	46,46,46,46	0
56	MG	2A	3578	1/1	0.94	0.20	27,27,27,27	0
56	MG	2a	1727	1/1	0.94	0.12	87,87,87,87	0
56	MG	2a	1728	1/1	0.94	0.09	46,46,46,46	0
56	MG	2A	3580	1/1	0.94	0.15	39,39,39,39	0
56	MG	1A	3312	1/1	0.94	0.24	42,42,42,42	0
56	MG	1A	3269	1/1	0.94	0.21	35,35,35,35	0
56	MG	2A	3583	1/1	0.94	0.45	40,40,40,40	0
56	MG	1A	3940	1/1	0.94	0.10	29,29,29,29	0
56	MG	1A	3026	1/1	0.94	0.13	30,30,30,30	0
56	MG	1a	3191	1/1	0.94	0.08	53,53,53,53	0
56	MG	1R	205	1/1	0.94	0.10	34,34,34,34	0
56	MG	1A	3942	1/1	0.94	0.10	47,47,47,47	0
56	MG	1A	3943	1/1	0.94	0.16	38,38,38,38	0
56	MG	1a	3196	1/1	0.94	0.07	46,46,46,46	0
56	MG	1a	3197	1/1	0.94	0.10	39,39,39,39	0
56	MG	1A	3571	1/1	0.94	0.12	17,17,17,17	0
56	MG	2A	3601	1/1	0.94	0.09	53,53,53,53	0
56	MG	1A	3581	1/1	0.94	0.19	19,19,19,19	0
56	MG	1A	3449	1/1	0.94	0.19	52,52,52,52	0
56	MG	2A	3605	1/1	0.94	0.13	42,42,42,42	0
56	MG	2a	1756	1/1	0.94	0.13	43,43,43,43	0
56	MG	1U	203	1/1	0.94	0.23	23,23,23,23	0
56	MG	1a	3209	1/1	0.94	0.20	60,60,60,60	0
56	MG	1a	3212	1/1	0.94	0.13	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	3272	1/1	0.94	0.12	34,34,34,34	0
56	MG	1b	3002	1/1	0.94	0.10	53,53,53,53	0
56	MG	1A	3273	1/1	0.94	0.09	38,38,38,38	0
56	MG	1l	201	1/1	0.94	0.17	31,31,31,31	0
56	MG	1A	3378	1/1	0.94	0.40	27,27,27,27	0
56	MG	1A	3274	1/1	0.94	0.22	40,40,40,40	0
56	MG	1m	201	1/1	0.94	0.10	57,57,57,57	0
56	MG	1X	103	1/1	0.94	0.25	29,29,29,29	0
56	MG	1A	3457	1/1	0.94	0.14	32,32,32,32	0
56	MG	2A	3623	1/1	0.94	0.27	46,46,46,46	0
56	MG	2A	3624	1/1	0.94	0.22	62,62,62,62	0
56	MG	1A	3276	1/1	0.94	0.16	40,40,40,40	0
56	MG	2A	3626	1/1	0.94	0.16	46,46,46,46	0
56	MG	1A	3787	1/1	0.94	0.14	36,36,36,36	0
56	MG	2a	1785	1/1	0.94	0.15	63,63,63,63	0
56	MG	2A	3242	1/1	0.94	0.13	47,47,47,47	0
56	MG	2A	3632	1/1	0.94	0.32	62,62,62,62	0
56	MG	1A	3382	1/1	0.94	0.12	41,41,41,41	0
56	MG	1A	3790	1/1	0.94	0.36	27,27,27,27	0
56	MG	1A	3606	1/1	0.94	0.18	61,61,61,61	0
56	MG	1A	3061	1/1	0.94	0.11	39,39,39,39	0
56	MG	1A	3384	1/1	0.94	0.08	38,38,38,38	0
56	MG	1A	3462	1/1	0.94	0.31	22,22,22,22	0
56	MG	2A	3251	1/1	0.94	0.20	49,49,49,49	0
56	MG	1A	3323	1/1	0.94	0.22	19,19,19,19	0
56	MG	2A	3651	1/1	0.94	0.13	42,42,42,42	0
56	MG	13	101	1/1	0.94	0.53	39,39,39,39	0
56	MG	1A	3981	1/1	0.94	0.12	30,30,30,30	0
56	MG	2A	3654	1/1	0.94	0.26	33,33,33,33	0
56	MG	2A	3655	1/1	0.94	0.15	53,53,53,53	0
56	MG	15	101	1/1	0.94	0.38	27,27,27,27	0
56	MG	1A	3982	1/1	0.94	0.23	46,46,46,46	0
56	MG	1A	3326	1/1	0.94	0.17	25,25,25,25	0
56	MG	1A	3799	1/1	0.94	0.23	29,29,29,29	0
56	MG	1A	3389	1/1	0.94	0.21	34,34,34,34	0
56	MG	17	101	1/1	0.94	0.19	27,27,27,27	0
56	MG	2A	3667	1/1	0.94	0.11	63,63,63,63	0
56	MG	1x	108	1/1	0.94	0.13	61,61,61,61	0
56	MG	2A	3675	1/1	0.94	0.09	62,62,62,62	0
56	MG	17	102	1/1	0.94	0.30	31,31,31,31	0
56	MG	2A	3677	1/1	0.94	0.15	48,48,48,48	0
56	MG	2A	3678	1/1	0.94	0.21	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3265	1/1	0.94	0.17	46,46,46,46	0
56	MG	2d	503	1/1	0.94	0.12	56,56,56,56	0
56	MG	1A	3988	1/1	0.94	0.09	34,34,34,34	0
56	MG	18	102	1/1	0.94	0.12	29,29,29,29	0
56	MG	2j	8002	1/1	0.94	0.05	62,62,62,62	0
56	MG	1A	3228	1/1	0.94	0.29	40,40,40,40	0
56	MG	1A	3624	1/1	0.94	0.13	26,26,26,26	0
56	MG	1A	3626	1/1	0.94	0.14	23,23,23,23	0
56	MG	1a	3004	1/1	0.94	0.14	50,50,50,50	0
56	MG	2A	3278	1/1	0.94	0.14	57,57,57,57	0
56	MG	1A	3992	1/1	0.94	0.18	49,49,49,49	0
56	MG	1a	3008	1/1	0.94	0.17	51,51,51,51	0
56	MG	2A	3004	1/1	0.94	0.14	37,37,37,37	0
56	MG	2A	3282	1/1	0.94	0.10	51,51,51,51	0
56	MG	1A	3805	1/1	0.94	0.20	60,60,60,60	0
56	MG	2A	3007	1/1	0.94	0.10	32,32,32,32	0
56	MG	1A	3468	1/1	0.94	0.08	37,37,37,37	0
56	MG	2A	3287	1/1	0.94	0.25	47,47,47,47	0
56	MG	1a	3012	1/1	0.94	0.10	41,41,41,41	0
56	MG	1A	3396	1/1	0.94	0.28	44,44,44,44	0
56	MG	2A	3706	1/1	0.94	0.14	42,42,42,42	0
56	MG	2A	3707	1/1	0.94	0.15	47,47,47,47	0
56	MG	2A	3294	1/1	0.94	0.28	45,45,45,45	0
56	MG	2A	3014	1/1	0.94	0.21	54,54,54,54	0
56	MG	1A	4001	1/1	0.94	0.11	45,45,45,45	0
56	MG	1A	4004	1/1	0.94	0.27	55,55,55,55	0
56	MG	2A	3718	1/1	0.94	0.10	56,56,56,56	0
56	MG	1A	3638	1/1	0.94	0.15	56,56,56,56	0
56	MG	1A	4007	1/1	0.94	0.66	39,39,39,39	0
56	MG	2A	3304	1/1	0.94	0.20	49,49,49,49	0
58	EZG	1A	4030	25/25	0.94	0.27	19,29,40,41	0
56	MG	1A	3281	1/1	0.94	0.34	29,29,29,29	0
56	MG	1a	3023	1/1	0.94	0.15	44,44,44,44	0
56	MG	1a	3108	1/1	0.95	0.21	40,40,40,40	0
56	MG	2A	3385	1/1	0.95	0.21	27,27,27,27	0
56	MG	2B	3004	1/1	0.95	0.16	60,60,60,60	0
56	MG	2B	3006	1/1	0.95	0.17	65,65,65,65	0
56	MG	1A	3582	1/1	0.95	0.12	26,26,26,26	0
56	MG	1A	3234	1/1	0.95	0.11	43,43,43,43	0
56	MG	2A	3107	1/1	0.95	0.17	27,27,27,27	0
56	MG	1A	3471	1/1	0.95	0.23	45,45,45,45	0
56	MG	2B	3011	1/1	0.95	0.14	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1D	309	1/1	0.95	0.23	28,28,28,28	0
56	MG	1A	3129	1/1	0.95	0.36	27,27,27,27	0
56	MG	1A	3279	1/1	0.95	0.18	41,41,41,41	0
56	MG	2B	3015	1/1	0.95	0.14	51,51,51,51	0
56	MG	1a	3118	1/1	0.95	0.09	65,65,65,65	0
56	MG	1a	3122	1/1	0.95	0.11	40,40,40,40	0
56	MG	1D	314	1/1	0.95	0.30	29,29,29,29	0
56	MG	1A	3750	1/1	0.95	0.08	31,31,31,31	0
56	MG	2D	301	1/1	0.95	0.24	54,54,54,54	0
56	MG	1A	3926	1/1	0.95	0.16	18,18,18,18	0
56	MG	2A	3413	1/1	0.95	0.16	55,55,55,55	0
56	MG	2D	305	1/1	0.95	0.10	29,29,29,29	0
56	MG	1A	3475	1/1	0.95	0.27	28,28,28,28	0
56	MG	1A	3056	1/1	0.95	0.14	50,50,50,50	0
56	MG	2A	3124	1/1	0.95	0.18	48,48,48,48	0
56	MG	2A	3419	1/1	0.95	0.07	55,55,55,55	0
56	MG	1A	3418	1/1	0.95	0.56	30,30,30,30	0
56	MG	1a	3132	1/1	0.95	0.08	34,34,34,34	0
56	MG	1a	3133	1/1	0.95	0.15	47,47,47,47	0
56	MG	1A	3597	1/1	0.95	0.09	50,50,50,50	0
56	MG	2A	3427	1/1	0.95	0.08	46,46,46,46	0
56	MG	1A	3600	1/1	0.95	0.26	50,50,50,50	0
56	MG	2A	3430	1/1	0.95	0.11	53,53,53,53	0
56	MG	1a	3138	1/1	0.95	0.16	66,66,66,66	0
56	MG	2A	3132	1/1	0.95	0.07	58,58,58,58	0
56	MG	2Q	3001	1/1	0.95	0.07	54,54,54,54	0
56	MG	1A	3082	1/1	0.95	0.15	40,40,40,40	0
56	MG	1A	3421	1/1	0.95	0.46	37,37,37,37	0
56	MG	1A	3763	1/1	0.95	0.15	22,22,22,22	0
56	MG	1A	3422	1/1	0.95	0.50	43,43,43,43	0
56	MG	2A	3438	1/1	0.95	0.10	36,36,36,36	0
56	MG	1G	3003	1/1	0.95	0.11	51,51,51,51	0
56	MG	1A	3767	1/1	0.95	0.10	41,41,41,41	0
56	MG	2A	3141	1/1	0.95	0.13	40,40,40,40	0
56	MG	1A	3768	1/1	0.95	0.06	33,33,33,33	0
56	MG	1A	3062	1/1	0.95	0.11	12,12,12,12	0
56	MG	1A	3611	1/1	0.95	0.19	45,45,45,45	0
56	MG	1A	3613	1/1	0.95	0.10	30,30,30,30	0
56	MG	1a	3151	1/1	0.95	0.20	62,62,62,62	0
56	MG	2A	3448	1/1	0.95	0.14	33,33,33,33	0
56	MG	1A	3777	1/1	0.95	0.10	36,36,36,36	0
56	MG	2A	3454	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	1A	3950	1/1	0.95	0.14	54,54,54,54	0
56	MG	1A	3616	1/1	0.95	0.16	58,58,58,58	0
56	MG	1A	3096	1/1	0.95	0.25	26,26,26,26	0
56	MG	1a	3158	1/1	0.95	0.06	47,47,47,47	0
56	MG	1A	3204	1/1	0.95	0.29	39,39,39,39	0
56	MG	1A	3956	1/1	0.95	0.07	67,67,67,67	0
56	MG	1A	3782	1/1	0.95	0.09	34,34,34,34	0
56	MG	1a	3163	1/1	0.95	0.17	47,47,47,47	0
56	MG	1A	3492	1/1	0.95	0.25	35,35,35,35	0
56	MG	1A	3785	1/1	0.95	0.20	35,35,35,35	0
56	MG	1A	3285	1/1	0.95	0.14	34,34,34,34	0
56	MG	2A	3474	1/1	0.95	0.15	35,35,35,35	0
56	MG	1A	3961	1/1	0.95	0.10	36,36,36,36	0
56	MG	1A	3494	1/1	0.95	0.11	35,35,35,35	0
56	MG	2A	3173	1/1	0.95	0.14	45,45,45,45	0
56	MG	2A	3479	1/1	0.95	0.15	34,34,34,34	0
56	MG	1a	3169	1/1	0.95	0.09	38,38,38,38	0
56	MG	1A	3788	1/1	0.95	0.10	25,25,25,25	0
56	MG	1A	3322	1/1	0.95	0.36	38,38,38,38	0
56	MG	1A	3969	1/1	0.95	0.13	41,41,41,41	0
56	MG	1A	3428	1/1	0.95	0.21	26,26,26,26	0
56	MG	1A	3627	1/1	0.95	0.13	26,26,26,26	0
56	MG	2A	3487	1/1	0.95	0.20	62,62,62,62	0
56	MG	2A	3180	1/1	0.95	0.24	33,33,33,33	0
56	MG	1U	205	1/1	0.95	0.20	23,23,23,23	0
56	MG	1A	3973	1/1	0.95	0.13	47,47,47,47	0
56	MG	1A	3975	1/1	0.95	0.08	51,51,51,51	0
56	MG	2A	3494	1/1	0.95	0.26	49,49,49,49	0
56	MG	1a	3183	1/1	0.95	0.10	51,51,51,51	0
56	MG	1V	203	1/1	0.95	0.21	63,63,63,63	0
56	MG	2a	1618	1/1	0.95	0.43	51,51,51,51	0
56	MG	2A	3498	1/1	0.95	0.06	46,46,46,46	0
56	MG	2A	3499	1/1	0.95	0.15	41,41,41,41	0
56	MG	1a	3187	1/1	0.95	0.06	43,43,43,43	0
56	MG	1a	3188	1/1	0.95	0.10	47,47,47,47	0
56	MG	1W	3003	1/1	0.95	0.10	33,33,33,33	0
56	MG	2A	3189	1/1	0.95	0.07	38,38,38,38	0
56	MG	1A	3976	1/1	0.95	0.09	50,50,50,50	0
56	MG	2a	1629	1/1	0.95	0.18	73,73,73,73	0
56	MG	2A	3513	1/1	0.95	0.11	52,52,52,52	0
56	MG	1A	3059	1/1	0.95	0.20	36,36,36,36	0
56	MG	2a	1632	1/1	0.95	0.11	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3979	1/1	0.95	0.10	56,56,56,56	0
56	MG	1A	3629	1/1	0.95	0.23	60,60,60,60	0
56	MG	2a	1635	1/1	0.95	0.15	39,39,39,39	0
56	MG	1A	3372	1/1	0.95	0.13	35,35,35,35	0
56	MG	1A	3637	1/1	0.95	0.13	20,20,20,20	0
56	MG	1A	3324	1/1	0.95	0.13	33,33,33,33	0
56	MG	1a	3200	1/1	0.95	0.15	41,41,41,41	0
56	MG	2A	3526	1/1	0.95	0.11	49,49,49,49	0
56	MG	2A	3200	1/1	0.95	0.24	50,50,50,50	0
56	MG	10	102	1/1	0.95	0.23	25,25,25,25	0
56	MG	1A	3016	1/1	0.95	0.20	40,40,40,40	0
56	MG	1A	3327	1/1	0.95	0.18	10,10,10,10	0
56	MG	1A	3247	1/1	0.95	0.23	27,27,27,27	0
56	MG	2A	3533	1/1	0.95	0.34	52,52,52,52	0
56	MG	1A	3177	1/1	0.95	0.09	34,34,34,34	0
56	MG	1a	3210	1/1	0.95	0.14	41,41,41,41	0
56	MG	1a	3211	1/1	0.95	0.15	35,35,35,35	0
56	MG	11	103	1/1	0.95	0.08	31,31,31,31	0
56	MG	1A	3647	1/1	0.95	0.16	16,16,16,16	0
56	MG	1A	3111	1/1	0.95	0.28	30,30,30,30	0
56	MG	1A	3808	1/1	0.95	0.17	34,34,34,34	0
56	MG	2a	1655	1/1	0.95	0.17	67,67,67,67	0
56	MG	2A	3214	1/1	0.95	0.08	49,49,49,49	0
56	MG	1A	3650	1/1	0.95	0.17	34,34,34,34	0
56	MG	1A	3112	1/1	0.95	0.16	40,40,40,40	0
56	MG	2A	3549	1/1	0.95	0.15	43,43,43,43	0
56	MG	1A	3381	1/1	0.95	0.08	46,46,46,46	0
56	MG	1A	3659	1/1	0.95	0.20	40,40,40,40	0
56	MG	1A	4002	1/1	0.95	0.15	32,32,32,32	0
56	MG	1A	4003	1/1	0.95	0.10	32,32,32,32	0
56	MG	1A	3818	1/1	0.95	0.05	21,21,21,21	0
56	MG	1A	3664	1/1	0.95	0.19	43,43,43,43	0
56	MG	1A	3146	1/1	0.95	0.55	23,23,23,23	0
56	MG	1A	4008	1/1	0.95	0.36	24,24,24,24	0
56	MG	18	103	1/1	0.95	0.22	41,41,41,41	0
56	MG	2A	3564	1/1	0.95	0.17	42,42,42,42	0
56	MG	1A	3524	1/1	0.95	0.16	20,20,20,20	0
56	MG	2A	3566	1/1	0.95	0.13	56,56,56,56	0
56	MG	2A	3567	1/1	0.95	0.10	44,44,44,44	0
56	MG	2A	3227	1/1	0.95	0.09	40,40,40,40	0
56	MG	2a	1680	1/1	0.95	0.16	45,45,45,45	0
56	MG	1A	3185	1/1	0.95	0.15	26,26,26,26	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	0.95	0.16	45,45,45,45	0
56	MG	2a	1683	1/1	0.95	0.20	33,33,33,33	0
56	MG	2A	3230	1/1	0.95	0.10	41,41,41,41	0
56	MG	1A	3528	1/1	0.95	0.15	23,23,23,23	0
56	MG	1w	105	1/1	0.95	0.12	64,64,64,64	0
56	MG	2A	3576	1/1	0.95	0.10	52,52,52,52	0
56	MG	2A	3577	1/1	0.95	0.21	45,45,45,45	0
56	MG	1a	3005	1/1	0.95	0.11	41,41,41,41	0
56	MG	2a	1692	1/1	0.95	0.32	60,60,60,60	0
56	MG	2A	3579	1/1	0.95	0.09	51,51,51,51	0
56	MG	1A	3187	1/1	0.95	0.08	28,28,28,28	0
56	MG	2A	3237	1/1	0.95	0.15	43,43,43,43	0
56	MG	1a	3007	1/1	0.95	0.17	50,50,50,50	0
56	MG	2A	3240	1/1	0.95	0.12	51,51,51,51	0
56	MG	1A	3532	1/1	0.95	0.16	29,29,29,29	0
56	MG	2A	3585	1/1	0.95	0.20	34,34,34,34	0
56	MG	1A	3833	1/1	0.95	0.14	58,58,58,58	0
56	MG	1A	3533	1/1	0.95	0.10	47,47,47,47	0
56	MG	1A	3300	1/1	0.95	0.18	29,29,29,29	0
56	MG	1A	4022	1/1	0.95	0.14	46,46,46,46	0
56	MG	1x	104	1/1	0.95	0.22	54,54,54,54	0
56	MG	1x	105	1/1	0.95	0.13	59,59,59,59	0
56	MG	1x	106	1/1	0.95	0.15	66,66,66,66	0
56	MG	1A	3682	1/1	0.95	0.09	55,55,55,55	0
56	MG	2A	3596	1/1	0.95	0.15	32,32,32,32	0
56	MG	2A	3598	1/1	0.95	0.14	39,39,39,39	0
56	MG	2A	3599	1/1	0.95	0.09	61,61,61,61	0
56	MG	2A	3600	1/1	0.95	0.11	56,56,56,56	0
56	MG	2a	1718	1/1	0.95	0.14	55,55,55,55	0
56	MG	1A	3683	1/1	0.95	0.28	41,41,41,41	0
56	MG	1A	3388	1/1	0.95	0.19	30,30,30,30	0
56	MG	2a	1721	1/1	0.95	0.04	73,73,73,73	0
56	MG	1a	3019	1/1	0.95	0.10	54,54,54,54	0
56	MG	1x	112	1/1	0.95	0.16	45,45,45,45	0
56	MG	1A	4035	1/1	0.95	0.10	38,38,38,38	0
56	MG	2a	1725	1/1	0.95	0.14	49,49,49,49	0
56	MG	1a	3021	1/1	0.95	0.14	40,40,40,40	0
56	MG	1A	3078	1/1	0.95	0.39	26,26,26,26	0
56	MG	2A	3610	1/1	0.95	0.12	47,47,47,47	0
56	MG	1A	3542	1/1	0.95	0.16	44,44,44,44	0
56	MG	1y	104	1/1	0.95	0.13	44,44,44,44	0
56	MG	1A	4039	1/1	0.95	0.45	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	4040	1/1	0.95	0.47	34,34,34,34	0
56	MG	2A	3264	1/1	0.95	0.40	47,47,47,47	0
56	MG	1A	3694	1/1	0.95	0.08	51,51,51,51	0
56	MG	2A	3005	1/1	0.95	0.11	42,42,42,42	0
56	MG	1A	3545	1/1	0.95	0.15	25,25,25,25	0
56	MG	1A	3342	1/1	0.95	0.32	21,21,21,21	0
56	MG	2a	1744	1/1	0.95	0.11	67,67,67,67	0
56	MG	2A	3271	1/1	0.95	0.25	45,45,45,45	0
56	MG	2a	1746	1/1	0.95	0.08	67,67,67,67	0
56	MG	1A	3151	1/1	0.95	0.21	36,36,36,36	0
56	MG	2A	3274	1/1	0.95	0.29	45,45,45,45	0
56	MG	2A	3010	1/1	0.95	0.18	31,31,31,31	0
56	MG	1a	3033	1/1	0.95	0.07	57,57,57,57	0
56	MG	1A	4046	1/1	0.95	0.44	20,20,20,20	0
56	MG	2a	1754	1/1	0.95	0.09	61,61,61,61	0
56	MG	1a	3037	1/1	0.95	0.14	61,61,61,61	0
56	MG	1A	3551	1/1	0.95	0.15	17,17,17,17	0
56	MG	1a	3039	1/1	0.95	0.10	47,47,47,47	0
56	MG	1A	3703	1/1	0.95	0.22	24,24,24,24	0
56	MG	1a	3042	1/1	0.95	0.18	44,44,44,44	0
56	MG	1A	3102	1/1	0.95	0.27	31,31,31,31	0
56	MG	2A	3643	1/1	0.95	0.08	43,43,43,43	0
56	MG	2A	3023	1/1	0.95	0.12	41,41,41,41	0
56	MG	2A	3645	1/1	0.95	0.15	33,33,33,33	0
56	MG	1A	3193	1/1	0.95	0.18	30,30,30,30	0
56	MG	1A	3401	1/1	0.95	0.10	38,38,38,38	0
56	MG	2A	3290	1/1	0.95	0.19	39,39,39,39	0
56	MG	2a	1771	1/1	0.95	0.11	62,62,62,62	0
56	MG	2A	3027	1/1	0.95	0.14	32,32,32,32	0
56	MG	1A	3103	1/1	0.95	0.25	33,33,33,33	0
56	MG	2A	3295	1/1	0.95	0.26	43,43,43,43	0
56	MG	2a	1777	1/1	0.95	0.10	55,55,55,55	0
56	MG	1A	4055	1/1	0.95	0.66	31,31,31,31	0
56	MG	2a	1779	1/1	0.95	0.11	60,60,60,60	0
56	MG	2A	3297	1/1	0.95	0.24	51,51,51,51	0
56	MG	2a	1782	1/1	0.95	0.14	58,58,58,58	0
56	MG	1A	4058	1/1	0.95	0.24	69,69,69,69	0
56	MG	1A	3562	1/1	0.95	0.16	18,18,18,18	0
56	MG	1A	3125	1/1	0.95	0.28	19,19,19,19	0
56	MG	2A	3301	1/1	0.95	0.14	40,40,40,40	0
56	MG	2A	3665	1/1	0.95	0.11	36,36,36,36	0
56	MG	2a	1789	1/1	0.95	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	2A	3040	1/1	0.95	0.34	39,39,39,39	0
56	MG	1A	4061	1/1	0.95	0.31	38,38,38,38	0
56	MG	1A	3160	1/1	0.95	0.60	29,29,29,29	0
56	MG	2a	1794	1/1	0.95	0.15	58,58,58,58	0
56	MG	1A	3351	1/1	0.95	0.11	34,34,34,34	0
56	MG	1a	3056	1/1	0.95	0.11	50,50,50,50	0
56	MG	1B	201	1/1	0.95	0.10	49,49,49,49	0
56	MG	1A	3879	1/1	0.95	0.18	18,18,18,18	0
56	MG	1A	3079	1/1	0.95	0.16	32,32,32,32	0
56	MG	1A	3354	1/1	0.95	0.08	39,39,39,39	0
56	MG	1A	3714	1/1	0.95	0.19	26,26,26,26	0
56	MG	2a	1803	1/1	0.95	0.08	51,51,51,51	0
56	MG	1A	3569	1/1	0.95	0.14	17,17,17,17	0
56	MG	1A	3412	1/1	0.95	0.37	37,37,37,37	0
56	MG	2A	3319	1/1	0.95	0.13	62,62,62,62	0
56	MG	1a	3065	1/1	0.95	0.15	41,41,41,41	0
56	MG	2a	1809	1/1	0.95	0.15	58,58,58,58	0
56	MG	1a	3066	1/1	0.95	0.10	58,58,58,58	0
56	MG	1A	3720	1/1	0.95	0.14	41,41,41,41	0
56	MG	2a	1817	1/1	0.95	0.16	51,51,51,51	0
56	MG	1A	3890	1/1	0.95	0.15	36,36,36,36	0
56	MG	1A	3467	1/1	0.95	0.27	49,49,49,49	0
56	MG	1A	3722	1/1	0.95	0.14	29,29,29,29	0
56	MG	2A	3333	1/1	0.95	0.12	25,25,25,25	0
56	MG	1A	3724	1/1	0.95	0.10	44,44,44,44	0
56	MG	2a	1823	1/1	0.95	0.09	53,53,53,53	0
56	MG	2A	3699	1/1	0.95	0.11	39,39,39,39	0
56	MG	2A	3337	1/1	0.95	0.27	27,27,27,27	0
56	MG	2a	1828	1/1	0.95	0.22	64,64,64,64	0
56	MG	2A	3069	1/1	0.95	0.23	39,39,39,39	0
56	MG	2a	1831	1/1	0.95	0.09	53,53,53,53	0
56	MG	1a	3074	1/1	0.95	0.16	49,49,49,49	0
56	MG	1A	3899	1/1	0.95	0.09	35,35,35,35	0
56	MG	2A	3345	1/1	0.95	0.12	63,63,63,63	0
56	MG	2f	3001	1/1	0.95	0.11	40,40,40,40	0
56	MG	1A	3726	1/1	0.95	0.06	35,35,35,35	0
56	MG	1A	3901	1/1	0.95	0.30	44,44,44,44	0
56	MG	2A	3348	1/1	0.95	0.13	47,47,47,47	0
56	MG	1B	221	1/1	0.95	0.10	36,36,36,36	0
56	MG	2A	3350	1/1	0.95	0.13	50,50,50,50	0
56	MG	2A	3716	1/1	0.95	0.09	44,44,44,44	0
56	MG	1a	3087	1/1	0.95	0.19	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3719	1/1	0.95	0.14	70,70,70,70	0
56	MG	1A	3572	1/1	0.95	0.20	12,12,12,12	0
56	MG	2A	3081	1/1	0.95	0.09	53,53,53,53	0
56	MG	1A	3731	1/1	0.95	0.21	16,16,16,16	0
56	MG	2A	3725	1/1	0.95	0.13	47,47,47,47	0
56	MG	2A	3726	1/1	0.95	0.17	43,43,43,43	0
56	MG	1A	3574	1/1	0.95	0.15	16,16,16,16	0
56	MG	1A	3905	1/1	0.95	0.07	54,54,54,54	0
56	MG	1A	3575	1/1	0.95	0.12	11,11,11,11	0
56	MG	1A	3576	1/1	0.95	0.15	15,15,15,15	0
56	MG	2w	104	1/1	0.95	0.14	83,83,83,83	0
56	MG	2A	3365	1/1	0.95	0.11	38,38,38,38	0
56	MG	1A	3912	1/1	0.95	0.15	25,25,25,25	0
56	MG	2A	3372	1/1	0.95	0.23	42,42,42,42	0
56	MG	1a	3097	1/1	0.95	0.08	62,62,62,62	0
56	MG	1A	3913	1/1	0.95	0.25	39,39,39,39	0
56	MG	2A	3095	1/1	0.95	0.12	52,52,52,52	0
56	MG	1B	233	1/1	0.95	0.13	50,50,50,50	0
56	MG	2A	3748	1/1	0.95	0.14	27,27,27,27	0
56	MG	1B	235	1/1	0.95	0.16	55,55,55,55	0
56	MG	1A	3740	1/1	0.95	0.15	46,46,46,46	0
56	MG	2A	3380	1/1	0.95	0.17	25,25,25,25	0
56	MG	2A	3100	1/1	0.95	0.15	59,59,59,59	0
56	MG	1B	237	1/1	0.95	0.16	46,46,46,46	0
56	MG	1A	3232	1/1	0.95	0.10	17,17,17,17	0
56	MG	2A	3190	1/1	0.96	0.13	44,44,44,44	0
56	MG	1A	4023	1/1	0.96	0.56	21,21,21,21	0
56	MG	2A	3192	1/1	0.96	0.30	54,54,54,54	0
56	MG	1A	3852	1/1	0.96	0.15	55,55,55,55	0
56	MG	1A	3853	1/1	0.96	0.07	38,38,38,38	0
56	MG	1A	3400	1/1	0.96	0.17	33,33,33,33	0
56	MG	1A	4031	1/1	0.96	0.42	35,35,35,35	0
56	MG	1A	4032	1/1	0.96	0.49	30,30,30,30	0
56	MG	1A	4033	1/1	0.96	0.60	25,25,25,25	0
56	MG	1A	3113	1/1	0.96	0.48	27,27,27,27	0
56	MG	1A	3402	1/1	0.96	0.08	28,28,28,28	0
56	MG	1A	3403	1/1	0.96	0.23	33,33,33,33	0
56	MG	1a	3009	1/1	0.96	0.10	32,32,32,32	0
56	MG	2A	3203	1/1	0.96	0.12	53,53,53,53	0
56	MG	2R	3003	1/1	0.96	0.15	48,48,48,48	0
56	MG	1A	3862	1/1	0.96	0.11	52,52,52,52	0
56	MG	1A	3866	1/1	0.96	0.23	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3290	1/1	0.96	0.10	46,46,46,46	0
56	MG	2A	3488	1/1	0.96	0.08	53,53,53,53	0
56	MG	1A	3406	1/1	0.96	0.28	48,48,48,48	0
56	MG	1A	3717	1/1	0.96	0.10	45,45,45,45	0
56	MG	1a	3015	1/1	0.96	0.31	48,48,48,48	0
56	MG	1A	3874	1/1	0.96	0.16	36,36,36,36	0
56	MG	2U	205	1/1	0.96	0.23	49,49,49,49	0
56	MG	2U	206	1/1	0.96	0.13	42,42,42,42	0
56	MG	2A	3493	1/1	0.96	0.09	28,28,28,28	0
56	MG	1A	3875	1/1	0.96	0.17	43,43,43,43	0
56	MG	1A	3235	1/1	0.96	0.14	22,22,22,22	0
56	MG	2A	3496	1/1	0.96	0.11	37,37,37,37	0
56	MG	1A	3877	1/1	0.96	0.20	28,28,28,28	0
56	MG	1A	3719	1/1	0.96	0.08	47,47,47,47	0
56	MG	2X	3002	1/1	0.96	0.14	49,49,49,49	0
56	MG	1w	104	1/1	0.96	0.07	36,36,36,36	0
56	MG	1A	4051	1/1	0.96	0.22	13,13,13,13	0
56	MG	1A	3147	1/1	0.96	0.07	50,50,50,50	0
56	MG	1A	3579	1/1	0.96	0.18	31,31,31,31	0
56	MG	1A	3006	1/1	0.96	0.10	33,33,33,33	0
56	MG	1A	3474	1/1	0.96	0.17	38,38,38,38	0
56	MG	2A	3508	1/1	0.96	0.18	57,57,57,57	0
56	MG	2A	3510	1/1	0.96	0.11	50,50,50,50	0
56	MG	2A	3512	1/1	0.96	0.15	55,55,55,55	0
56	MG	1A	3725	1/1	0.96	0.17	30,30,30,30	0
56	MG	1A	3886	1/1	0.96	0.10	24,24,24,24	0
56	MG	1A	3149	1/1	0.96	0.60	28,28,28,28	0
56	MG	2A	3516	1/1	0.96	0.13	62,62,62,62	0
56	MG	1A	3888	1/1	0.96	0.14	15,15,15,15	0
56	MG	1A	3295	1/1	0.96	0.11	38,38,38,38	0
56	MG	1A	3588	1/1	0.96	0.16	32,32,32,32	0
56	MG	2A	3521	1/1	0.96	0.07	63,63,63,63	0
56	MG	2a	1606	1/1	0.96	0.07	43,43,43,43	0
56	MG	1A	3891	1/1	0.96	0.10	33,33,33,33	0
56	MG	1A	3733	1/1	0.96	0.07	55,55,55,55	0
56	MG	2A	3525	1/1	0.96	0.27	52,52,52,52	0
56	MG	1A	3477	1/1	0.96	0.23	32,32,32,32	0
56	MG	1a	3041	1/1	0.96	0.05	51,51,51,51	0
56	MG	1A	3736	1/1	0.96	0.24	16,16,16,16	0
56	MG	1B	206	1/1	0.96	0.07	36,36,36,36	0
56	MG	1A	3591	1/1	0.96	0.16	30,30,30,30	0
56	MG	1A	3240	1/1	0.96	0.15	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	1y	101	1/1	0.96	0.10	35,35,35,35	0
56	MG	2A	3239	1/1	0.96	0.44	64,64,64,64	0
56	MG	1A	3196	1/1	0.96	0.12	34,34,34,34	0
56	MG	2a	1619	1/1	0.96	0.34	53,53,53,53	0
56	MG	2A	3537	1/1	0.96	0.15	46,46,46,46	0
56	MG	1A	3594	1/1	0.96	0.32	46,46,46,46	0
56	MG	1A	3063	1/1	0.96	0.31	23,23,23,23	0
56	MG	2A	3541	1/1	0.96	0.14	32,32,32,32	0
56	MG	1A	3119	1/1	0.96	0.18	49,49,49,49	0
56	MG	2a	1625	1/1	0.96	0.10	67,67,67,67	0
56	MG	1A	3484	1/1	0.96	0.24	22,22,22,22	0
56	MG	2a	1627	1/1	0.96	0.22	53,53,53,53	0
56	MG	2A	3246	1/1	0.96	0.24	48,48,48,48	0
56	MG	1A	3598	1/1	0.96	0.34	48,48,48,48	0
56	MG	1A	3157	1/1	0.96	0.08	50,50,50,50	0
56	MG	1A	3910	1/1	0.96	0.10	32,32,32,32	0
56	MG	1A	3245	1/1	0.96	0.46	28,28,28,28	0
56	MG	1A	3489	1/1	0.96	0.22	30,30,30,30	0
56	MG	2A	3009	1/1	0.96	0.14	29,29,29,29	0
56	MG	1B	223	1/1	0.96	0.10	51,51,51,51	0
56	MG	2A	3553	1/1	0.96	0.09	57,57,57,57	0
56	MG	1A	3752	1/1	0.96	0.45	36,36,36,36	0
56	MG	2A	3012	1/1	0.96	0.10	44,44,44,44	0
56	MG	1A	3753	1/1	0.96	0.31	27,27,27,27	0
56	MG	1A	3081	1/1	0.96	0.17	24,24,24,24	0
56	MG	1B	227	1/1	0.96	0.12	36,36,36,36	0
56	MG	1A	3419	1/1	0.96	0.14	42,42,42,42	0
56	MG	2A	3260	1/1	0.96	0.16	48,48,48,48	0
56	MG	1A	3122	1/1	0.96	0.13	32,32,32,32	0
56	MG	2A	3020	1/1	0.96	0.15	29,29,29,29	0
56	MG	1A	3359	1/1	0.96	0.12	32,32,32,32	0
56	MG	1A	3360	1/1	0.96	0.18	32,32,32,32	0
56	MG	2A	3569	1/1	0.96	0.03	63,63,63,63	0
56	MG	1A	3617	1/1	0.96	0.10	45,45,45,45	0
56	MG	1A	3498	1/1	0.96	0.15	39,39,39,39	0
56	MG	1A	3765	1/1	0.96	0.20	19,19,19,19	0
56	MG	2A	3268	1/1	0.96	0.10	47,47,47,47	0
56	MG	1A	3929	1/1	0.96	0.33	35,35,35,35	0
56	MG	2A	3270	1/1	0.96	0.33	34,34,34,34	0
56	MG	2A	3028	1/1	0.96	0.17	42,42,42,42	0
56	MG	2A	3272	1/1	0.96	0.09	33,33,33,33	0
56	MG	1A	3930	1/1	0.96	0.23	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	3075	1/1	0.96	0.11	46,46,46,46	0
56	MG	2A	3034	1/1	0.96	0.16	56,56,56,56	0
56	MG	1A	3123	1/1	0.96	0.16	21,21,21,21	0
56	MG	1A	3501	1/1	0.96	0.21	30,30,30,30	0
56	MG	1a	3080	1/1	0.96	0.23	46,46,46,46	0
56	MG	2A	3039	1/1	0.96	0.15	25,25,25,25	0
56	MG	2a	1668	1/1	0.96	0.17	55,55,55,55	0
56	MG	1a	3081	1/1	0.96	0.09	67,67,67,67	0
56	MG	1a	3082	1/1	0.96	0.47	41,41,41,41	0
56	MG	1A	3503	1/1	0.96	0.18	22,22,22,22	0
56	MG	2A	3284	1/1	0.96	0.08	37,37,37,37	0
56	MG	1D	306	1/1	0.96	0.10	17,17,17,17	0
56	MG	1a	3085	1/1	0.96	0.21	33,33,33,33	0
56	MG	1A	3362	1/1	0.96	0.25	33,33,33,33	0
56	MG	1A	3936	1/1	0.96	0.08	49,49,49,49	0
56	MG	1D	310	1/1	0.96	0.20	33,33,33,33	0
56	MG	2A	3597	1/1	0.96	0.12	34,34,34,34	0
56	MG	1A	3771	1/1	0.96	0.18	17,17,17,17	0
56	MG	1A	3124	1/1	0.96	0.07	33,33,33,33	0
56	MG	1A	3773	1/1	0.96	0.10	15,15,15,15	0
56	MG	1A	3774	1/1	0.96	0.11	56,56,56,56	0
56	MG	2A	3602	1/1	0.96	0.19	62,62,62,62	0
56	MG	1a	3094	1/1	0.96	0.26	40,40,40,40	0
56	MG	1A	3625	1/1	0.96	0.26	10,10,10,10	0
56	MG	1A	3776	1/1	0.96	0.20	25,25,25,25	0
56	MG	1A	3167	1/1	0.96	0.22	47,47,47,47	0
56	MG	1A	3508	1/1	0.96	0.10	26,26,26,26	0
56	MG	1E	311	1/1	0.96	0.46	36,36,36,36	0
56	MG	2A	3303	1/1	0.96	0.17	35,35,35,35	0
56	MG	2A	3066	1/1	0.96	0.57	40,40,40,40	0
56	MG	1A	3008	1/1	0.96	0.16	18,18,18,18	0
56	MG	1A	3946	1/1	0.96	0.11	46,46,46,46	0
56	MG	1F	304	1/1	0.96	0.34	20,20,20,20	0
56	MG	1F	305	1/1	0.96	0.39	28,28,28,28	0
56	MG	2A	3617	1/1	0.96	0.24	43,43,43,43	0
56	MG	2A	3310	1/1	0.96	0.11	58,58,58,58	0
56	MG	1A	3253	1/1	0.96	0.72	24,24,24,24	0
56	MG	2A	3074	1/1	0.96	0.15	32,32,32,32	0
56	MG	1a	3110	1/1	0.96	0.13	50,50,50,50	0
56	MG	2A	3622	1/1	0.96	0.11	55,55,55,55	0
56	MG	1A	3949	1/1	0.96	0.11	18,18,18,18	0
56	MG	1A	3630	1/1	0.96	0.24	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	1712	1/1	0.96	0.09	63,63,63,63	0
56	MG	2A	3317	1/1	0.96	0.25	36,36,36,36	0
56	MG	1a	3113	1/1	0.96	0.14	40,40,40,40	0
56	MG	1A	3206	1/1	0.96	0.13	30,30,30,30	0
56	MG	1A	3126	1/1	0.96	0.48	21,21,21,21	0
56	MG	2a	1717	1/1	0.96	0.08	66,66,66,66	0
56	MG	1A	3066	1/1	0.96	0.06	22,22,22,22	0
56	MG	2A	3084	1/1	0.96	0.18	29,29,29,29	0
56	MG	1A	3067	1/1	0.96	0.08	22,22,22,22	0
56	MG	2A	3637	1/1	0.96	0.10	53,53,53,53	0
56	MG	1a	3119	1/1	0.96	0.15	52,52,52,52	0
56	MG	1a	3120	1/1	0.96	0.08	43,43,43,43	0
56	MG	1A	3520	1/1	0.96	0.11	11,11,11,11	0
56	MG	2A	3642	1/1	0.96	0.12	43,43,43,43	0
56	MG	1A	3070	1/1	0.96	0.17	23,23,23,23	0
56	MG	1A	3212	1/1	0.96	0.18	50,50,50,50	0
56	MG	1a	3125	1/1	0.96	0.12	42,42,42,42	0
56	MG	1A	3213	1/1	0.96	0.18	36,36,36,36	0
56	MG	1A	3525	1/1	0.96	0.13	9,9,9,9	0
56	MG	2a	1733	1/1	0.96	0.12	56,56,56,56	0
56	MG	2A	3341	1/1	0.96	0.17	39,39,39,39	0
56	MG	2A	3342	1/1	0.96	0.18	49,49,49,49	0
56	MG	1A	3963	1/1	0.96	0.08	33,33,33,33	0
56	MG	1A	3649	1/1	0.96	0.19	16,16,16,16	0
56	MG	1A	3437	1/1	0.96	0.11	52,52,52,52	0
56	MG	1A	3046	1/1	0.96	0.26	50,50,50,50	0
56	MG	1P	201	1/1	0.96	0.46	16,16,16,16	0
56	MG	1P	202	1/1	0.96	0.27	23,23,23,23	0
56	MG	2A	3105	1/1	0.96	0.22	34,34,34,34	0
56	MG	2A	3352	1/1	0.96	0.10	50,50,50,50	0
56	MG	2A	3664	1/1	0.96	0.21	41,41,41,41	0
56	MG	1a	3137	1/1	0.96	0.15	51,51,51,51	0
56	MG	1A	3216	1/1	0.96	0.14	25,25,25,25	0
56	MG	1Q	201	1/1	0.96	0.36	33,33,33,33	0
56	MG	2A	3670	1/1	0.96	0.18	46,46,46,46	0
56	MG	2a	1753	1/1	0.96	0.15	45,45,45,45	0
56	MG	1a	3140	1/1	0.96	0.10	38,38,38,38	0
56	MG	1A	3440	1/1	0.96	0.33	28,28,28,28	0
56	MG	2A	3359	1/1	0.96	0.20	52,52,52,52	0
56	MG	1A	3320	1/1	0.96	0.07	48,48,48,48	0
56	MG	1R	201	1/1	0.96	0.16	36,36,36,36	0
56	MG	2A	3679	1/1	0.96	0.15	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	3680	1/1	0.96	0.08	62,62,62,62	0
56	MG	1R	202	1/1	0.96	0.08	30,30,30,30	0
56	MG	2a	1763	1/1	0.96	0.10	72,72,72,72	0
56	MG	1a	3145	1/1	0.96	0.22	48,48,48,48	0
56	MG	2A	3371	1/1	0.96	0.19	22,22,22,22	0
56	MG	1A	3033	1/1	0.96	0.12	21,21,21,21	0
56	MG	2a	1768	1/1	0.96	0.05	55,55,55,55	0
56	MG	1A	3974	1/1	0.96	0.11	50,50,50,50	0
56	MG	1A	3010	1/1	0.96	0.21	33,33,33,33	0
56	MG	1A	3138	1/1	0.96	0.46	30,30,30,30	0
56	MG	1A	3446	1/1	0.96	0.11	43,43,43,43	0
56	MG	1A	3806	1/1	0.96	0.11	45,45,45,45	0
56	MG	2a	1774	1/1	0.96	0.15	44,44,44,44	0
56	MG	1a	3152	1/1	0.96	0.10	60,60,60,60	0
56	MG	1a	3153	1/1	0.96	0.10	52,52,52,52	0
56	MG	1A	3539	1/1	0.96	0.07	20,20,20,20	0
56	MG	2A	3696	1/1	0.96	0.09	39,39,39,39	0
56	MG	1U	202	1/1	0.96	0.11	30,30,30,30	0
56	MG	2a	1781	1/1	0.96	0.10	67,67,67,67	0
56	MG	1A	3540	1/1	0.96	0.11	46,46,46,46	0
56	MG	1A	3675	1/1	0.96	0.15	66,66,66,66	0
56	MG	2A	3700	1/1	0.96	0.06	61,61,61,61	0
56	MG	1A	3813	1/1	0.96	0.16	29,29,29,29	0
56	MG	1A	3180	1/1	0.96	0.14	42,42,42,42	0
56	MG	1a	3160	1/1	0.96	0.09	52,52,52,52	0
56	MG	1A	3816	1/1	0.96	0.27	46,46,46,46	0
56	MG	2A	3391	1/1	0.96	0.14	41,41,41,41	0
56	MG	2A	3137	1/1	0.96	0.08	50,50,50,50	0
56	MG	1W	3001	1/1	0.96	0.19	34,34,34,34	0
56	MG	1A	3543	1/1	0.96	0.14	20,20,20,20	0
56	MG	2A	3711	1/1	0.96	0.07	37,37,37,37	0
56	MG	2A	3713	1/1	0.96	0.18	26,26,26,26	0
56	MG	2A	3398	1/1	0.96	0.24	26,26,26,26	0
56	MG	2A	3399	1/1	0.96	0.19	57,57,57,57	0
56	MG	1W	3005	1/1	0.96	0.14	21,21,21,21	0
56	MG	1A	3139	1/1	0.96	0.19	21,21,21,21	0
56	MG	2A	3403	1/1	0.96	0.26	29,29,29,29	0
56	MG	2A	3405	1/1	0.96	0.15	35,35,35,35	0
56	MG	2A	3143	1/1	0.96	0.13	41,41,41,41	0
56	MG	2a	1805	1/1	0.96	0.05	53,53,53,53	0
56	MG	1A	3546	1/1	0.96	0.11	14,14,14,14	0
56	MG	2A	3724	1/1	0.96	0.15	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	1A	3822	1/1	0.96	0.10	45,45,45,45	0
56	MG	1X	105	1/1	0.96	0.16	44,44,44,44	0
56	MG	2a	1810	1/1	0.96	0.15	81,81,81,81	0
56	MG	2A	3727	1/1	0.96	0.12	49,49,49,49	0
56	MG	2A	3412	1/1	0.96	0.14	47,47,47,47	0
56	MG	2A	3729	1/1	0.96	0.20	43,43,43,43	0
56	MG	2A	3150	1/1	0.96	0.21	49,49,49,49	0
56	MG	1A	3547	1/1	0.96	0.13	22,22,22,22	0
56	MG	1A	3684	1/1	0.96	0.12	44,44,44,44	0
56	MG	2A	3734	1/1	0.96	0.16	25,25,25,25	0
56	MG	1a	3171	1/1	0.96	0.07	55,55,55,55	0
56	MG	2A	3418	1/1	0.96	0.06	46,46,46,46	0
56	MG	1a	3172	1/1	0.96	0.07	46,46,46,46	0
56	MG	2a	1825	1/1	0.96	0.17	56,56,56,56	0
56	MG	1a	3173	1/1	0.96	0.18	39,39,39,39	0
56	MG	1A	3278	1/1	0.96	0.18	40,40,40,40	0
56	MG	2A	3422	1/1	0.96	0.19	49,49,49,49	0
56	MG	1A	3688	1/1	0.96	0.20	21,21,21,21	0
56	MG	1A	3999	1/1	0.96	0.17	25,25,25,25	0
56	MG	2A	3749	1/1	0.96	0.36	34,34,34,34	0
56	MG	1A	3689	1/1	0.96	0.39	20,20,20,20	0
56	MG	2e	3001	1/1	0.96	0.11	60,60,60,60	0
56	MG	1A	3451	1/1	0.96	0.28	24,24,24,24	0
56	MG	2A	3162	1/1	0.96	0.08	54,54,54,54	0
56	MG	1A	3550	1/1	0.96	0.19	26,26,26,26	0
56	MG	2A	3165	1/1	0.96	0.18	40,40,40,40	0
56	MG	1A	3140	1/1	0.96	0.54	23,23,23,23	0
56	MG	1a	3182	1/1	0.96	0.15	45,45,45,45	0
56	MG	1A	3553	1/1	0.96	0.14	10,10,10,10	0
56	MG	2A	3169	1/1	0.96	0.07	45,45,45,45	0
56	MG	2B	3005	1/1	0.96	0.10	55,55,55,55	0
56	MG	1A	3554	1/1	0.96	0.13	14,14,14,14	0
56	MG	11	105	1/1	0.96	0.11	32,32,32,32	0
56	MG	1A	3049	1/1	0.96	0.10	21,21,21,21	0
56	MG	1A	3037	1/1	0.96	0.26	22,22,22,22	0
56	MG	1A	3702	1/1	0.96	0.07	23,23,23,23	0
56	MG	1A	3229	1/1	0.96	0.15	28,28,28,28	0
56	MG	15	103	1/1	0.96	0.46	25,25,25,25	0
56	MG	1A	3095	1/1	0.96	0.43	28,28,28,28	0
56	MG	1A	3394	1/1	0.96	0.23	37,37,37,37	0
56	MG	2w	103	1/1	0.96	0.09	44,44,44,44	0
56	MG	1a	3195	1/1	0.96	0.06	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	3028	1/1	0.96	0.34	20,20,20,20	0
56	MG	2A	3451	1/1	0.96	0.09	44,44,44,44	0
56	MG	1A	3191	1/1	0.96	0.21	24,24,24,24	0
56	MG	1a	3198	1/1	0.96	0.25	46,46,46,46	0
56	MG	2x	102	1/1	0.96	0.19	57,57,57,57	0
56	MG	16	104	1/1	0.96	0.14	38,38,38,38	0
56	MG	1A	3847	1/1	0.96	0.14	18,18,18,18	0
56	MG	2D	303	1/1	0.96	0.34	41,41,41,41	0
56	MG	1A	3233	1/1	0.96	0.43	35,35,35,35	0
56	MG	2y	3004	1/1	0.96	0.17	36,36,36,36	0
56	MG	1A	3399	1/1	0.96	0.14	42,42,42,42	0
56	MG	2A	3462	1/1	0.96	0.14	54,54,54,54	0
56	MG	2A	3463	1/1	0.96	0.16	27,27,27,27	0
57	K	1A	4028	1/1	0.96	0.10	40,40,40,40	0
56	MG	2E	301	1/1	0.96	0.14	33,33,33,33	0
56	MG	2A	3464	1/1	0.96	0.25	29,29,29,29	0
56	MG	18	101	1/1	0.96	0.34	37,37,37,37	0
59	ZN	2n	501	1/1	0.96	0.05	93,93,93,93	0
56	MG	2A	3041	1/1	0.97	0.12	46,46,46,46	0
56	MG	1O	204	1/1	0.97	0.10	45,45,45,45	0
56	MG	1A	3275	1/1	0.97	0.14	25,25,25,25	0
56	MG	1A	3850	1/1	0.97	0.40	43,43,43,43	0
56	MG	1a	3106	1/1	0.97	0.13	52,52,52,52	0
56	MG	2A	3047	1/1	0.97	0.14	60,60,60,60	0
56	MG	1a	3107	1/1	0.97	0.20	39,39,39,39	0
56	MG	1A	3633	1/1	0.97	0.10	52,52,52,52	0
56	MG	1A	3634	1/1	0.97	0.12	28,28,28,28	0
56	MG	1A	3236	1/1	0.97	0.21	35,35,35,35	0
56	MG	1A	3856	1/1	0.97	0.06	62,62,62,62	0
56	MG	2A	3540	1/1	0.97	0.09	37,37,37,37	0
56	MG	1A	3996	1/1	0.97	0.17	49,49,49,49	0
56	MG	1Q	202	1/1	0.97	0.16	28,28,28,28	0
56	MG	1a	3114	1/1	0.97	0.10	68,68,68,68	0
56	MG	2A	3275	1/1	0.97	0.09	37,37,37,37	0
56	MG	1A	3742	1/1	0.97	0.14	28,28,28,28	0
56	MG	1A	3858	1/1	0.97	0.17	54,54,54,54	0
56	MG	2A	3060	1/1	0.97	0.20	32,32,32,32	0
56	MG	2A	3548	1/1	0.97	0.13	51,51,51,51	0
56	MG	1A	3556	1/1	0.97	0.15	20,20,20,20	0
56	MG	2A	3062	1/1	0.97	0.14	47,47,47,47	0
56	MG	2A	3063	1/1	0.97	0.14	43,43,43,43	0
56	MG	1A	3442	1/1	0.97	0.22	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	1R	203	1/1	0.97	0.49	34,34,34,34	0
56	MG	1A	3745	1/1	0.97	0.13	33,33,33,33	0
56	MG	1a	3121	1/1	0.97	0.15	54,54,54,54	0
56	MG	2A	3068	1/1	0.97	0.04	35,35,35,35	0
56	MG	1A	3090	1/1	0.97	0.24	18,18,18,18	0
56	MG	2A	3561	1/1	0.97	0.18	56,56,56,56	0
56	MG	1A	3863	1/1	0.97	0.11	56,56,56,56	0
56	MG	1A	3643	1/1	0.97	0.40	29,29,29,29	0
56	MG	2A	3072	1/1	0.97	0.29	32,32,32,32	0
56	MG	1A	3748	1/1	0.97	0.10	38,38,38,38	0
56	MG	1A	3868	1/1	0.97	0.14	24,24,24,24	0
56	MG	1a	3127	1/1	0.97	0.08	48,48,48,48	0
56	MG	1A	3358	1/1	0.97	0.13	44,44,44,44	0
56	MG	2A	3077	1/1	0.97	0.10	41,41,41,41	0
56	MG	2A	3078	1/1	0.97	0.11	54,54,54,54	0
56	MG	1U	201	1/1	0.97	0.10	20,20,20,20	0
56	MG	1A	4010	1/1	0.97	0.13	23,23,23,23	0
56	MG	1A	3870	1/1	0.97	0.09	55,55,55,55	0
56	MG	1A	3871	1/1	0.97	0.05	59,59,59,59	0
56	MG	2A	3575	1/1	0.97	0.12	46,46,46,46	0
56	MG	1A	3561	1/1	0.97	0.11	17,17,17,17	0
56	MG	1A	3873	1/1	0.97	0.17	42,42,42,42	0
56	MG	2A	3306	1/1	0.97	0.22	47,47,47,47	0
56	MG	2A	3085	1/1	0.97	0.18	48,48,48,48	0
56	MG	1a	3136	1/1	0.97	0.12	49,49,49,49	0
56	MG	1A	3496	1/1	0.97	0.09	35,35,35,35	0
56	MG	1A	3051	1/1	0.97	0.17	22,22,22,22	0
56	MG	2A	3090	1/1	0.97	0.15	32,32,32,32	0
56	MG	2A	3091	1/1	0.97	0.30	38,38,38,38	0
56	MG	1A	4017	1/1	0.97	0.41	37,37,37,37	0
56	MG	1A	3404	1/1	0.97	0.26	28,28,28,28	0
56	MG	1A	4019	1/1	0.97	0.27	26,26,26,26	0
56	MG	1A	4020	1/1	0.97	0.30	50,50,50,50	0
56	MG	2A	3589	1/1	0.97	0.26	45,45,45,45	0
56	MG	1A	3755	1/1	0.97	0.20	21,21,21,21	0
56	MG	1A	3077	1/1	0.97	0.44	21,21,21,21	0
56	MG	1X	106	1/1	0.97	0.15	21,21,21,21	0
56	MG	1A	3757	1/1	0.97	0.23	22,22,22,22	0
56	MG	2A	3323	1/1	0.97	0.43	31,31,31,31	0
56	MG	2A	3324	1/1	0.97	0.06	40,40,40,40	0
56	MG	1Y	503	1/1	0.97	0.40	42,42,42,42	0
56	MG	1A	3502	1/1	0.97	0.33	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3655	1/1	0.97	0.14	11,11,11,11	0
56	MG	1A	3656	1/1	0.97	0.19	25,25,25,25	0
56	MG	1Z	3004	1/1	0.97	0.14	41,41,41,41	0
56	MG	10	101	1/1	0.97	0.06	41,41,41,41	0
56	MG	2A	3336	1/1	0.97	0.14	58,58,58,58	0
56	MG	1A	3657	1/1	0.97	0.13	23,23,23,23	0
56	MG	1A	3567	1/1	0.97	0.21	13,13,13,13	0
56	MG	2A	3109	1/1	0.97	0.25	39,39,39,39	0
56	MG	1A	3448	1/1	0.97	0.18	37,37,37,37	0
56	MG	2A	3608	1/1	0.97	0.13	48,48,48,48	0
56	MG	1A	4034	1/1	0.97	0.58	28,28,28,28	0
56	MG	11	101	1/1	0.97	0.11	28,28,28,28	0
56	MG	2A	3611	1/1	0.97	0.13	47,47,47,47	0
56	MG	2a	1659	1/1	0.97	0.12	47,47,47,47	0
56	MG	2a	1660	1/1	0.97	0.13	59,59,59,59	0
56	MG	2A	3344	1/1	0.97	0.11	24,24,24,24	0
56	MG	1A	3764	1/1	0.97	0.15	24,24,24,24	0
56	MG	1A	3663	1/1	0.97	0.13	43,43,43,43	0
56	MG	1A	3040	1/1	0.97	0.06	30,30,30,30	0
56	MG	1A	3665	1/1	0.97	0.13	12,12,12,12	0
56	MG	1A	3893	1/1	0.97	0.27	27,27,27,27	0
56	MG	2A	3119	1/1	0.97	0.12	41,41,41,41	0
56	MG	12	3002	1/1	0.97	0.19	35,35,35,35	0
56	MG	2A	3122	1/1	0.97	0.15	26,26,26,26	0
56	MG	1A	3128	1/1	0.97	0.31	27,27,27,27	0
56	MG	1A	3668	1/1	0.97	0.14	22,22,22,22	0
56	MG	1A	3032	1/1	0.97	0.14	26,26,26,26	0
56	MG	15	102	1/1	0.97	0.19	22,22,22,22	0
56	MG	1A	4044	1/1	0.97	0.27	29,29,29,29	0
56	MG	2a	1676	1/1	0.97	0.19	48,48,48,48	0
56	MG	15	105	1/1	0.97	0.46	33,33,33,33	0
56	MG	2A	3627	1/1	0.97	0.14	50,50,50,50	0
56	MG	1A	3452	1/1	0.97	0.28	30,30,30,30	0
56	MG	1A	3509	1/1	0.97	0.18	31,31,31,31	0
56	MG	2A	3362	1/1	0.97	0.09	58,58,58,58	0
56	MG	2A	3633	1/1	0.97	0.13	66,66,66,66	0
56	MG	2A	3634	1/1	0.97	0.21	48,48,48,48	0
56	MG	2A	3364	1/1	0.97	0.08	45,45,45,45	0
56	MG	1A	3130	1/1	0.97	0.23	10,10,10,10	0
56	MG	1A	3454	1/1	0.97	0.37	30,30,30,30	0
56	MG	2a	1689	1/1	0.97	0.08	57,57,57,57	0
56	MG	2A	3367	1/1	0.97	0.13	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3368	1/1	0.97	0.13	36,36,36,36	0
56	MG	1A	3578	1/1	0.97	0.14	23,23,23,23	0
56	MG	1A	3676	1/1	0.97	0.17	31,31,31,31	0
56	MG	1A	3778	1/1	0.97	0.17	13,13,13,13	0
56	MG	1A	3906	1/1	0.97	0.17	60,60,60,60	0
56	MG	1A	3678	1/1	0.97	0.16	22,22,22,22	0
56	MG	1A	3908	1/1	0.97	0.14	27,27,27,27	0
56	MG	2a	1699	1/1	0.97	0.05	58,58,58,58	0
56	MG	2A	3647	1/1	0.97	0.11	51,51,51,51	0
56	MG	2A	3648	1/1	0.97	0.07	46,46,46,46	0
56	MG	1A	3184	1/1	0.97	0.14	14,14,14,14	0
56	MG	1A	3155	1/1	0.97	0.14	29,29,29,29	0
56	MG	1A	3911	1/1	0.97	0.10	29,29,29,29	0
56	MG	2A	3144	1/1	0.97	0.10	33,33,33,33	0
56	MG	1a	3184	1/1	0.97	0.08	49,49,49,49	0
56	MG	1a	3002	1/1	0.97	0.10	46,46,46,46	0
56	MG	1A	3186	1/1	0.97	0.20	27,27,27,27	0
56	MG	2A	3148	1/1	0.97	0.06	34,34,34,34	0
56	MG	2A	3149	1/1	0.97	0.27	57,57,57,57	0
56	MG	2A	3387	1/1	0.97	0.09	50,50,50,50	0
56	MG	2A	3388	1/1	0.97	0.17	25,25,25,25	0
56	MG	1A	3583	1/1	0.97	0.18	22,22,22,22	0
56	MG	2A	3151	1/1	0.97	0.09	47,47,47,47	0
56	MG	1A	4064	1/1	0.97	0.26	30,30,30,30	0
56	MG	1A	3784	1/1	0.97	0.12	57,57,57,57	0
56	MG	2A	3669	1/1	0.97	0.20	27,27,27,27	0
56	MG	1A	3132	1/1	0.97	0.15	37,37,37,37	0
56	MG	2A	3671	1/1	0.97	0.18	29,29,29,29	0
56	MG	1A	3918	1/1	0.97	0.11	33,33,33,33	0
56	MG	2A	3673	1/1	0.97	0.17	47,47,47,47	0
56	MG	1A	3517	1/1	0.97	0.15	28,28,28,28	0
56	MG	1A	3686	1/1	0.97	0.16	18,18,18,18	0
56	MG	2a	1726	1/1	0.97	0.13	64,64,64,64	0
56	MG	1A	3518	1/1	0.97	0.11	41,41,41,41	0
56	MG	2A	3401	1/1	0.97	0.19	32,32,32,32	0
56	MG	1A	3589	1/1	0.97	0.12	23,23,23,23	0
56	MG	1A	3022	1/1	0.97	0.13	22,22,22,22	0
56	MG	1A	3690	1/1	0.97	0.10	42,42,42,42	0
56	MG	1A	3925	1/1	0.97	0.17	12,12,12,12	0
56	MG	2a	1735	1/1	0.97	0.18	50,50,50,50	0
56	MG	2A	3407	1/1	0.97	0.15	35,35,35,35	0
56	MG	1a	3202	1/1	0.97	0.06	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	2A	3164	1/1	0.97	0.37	53,53,53,53	0
56	MG	2A	3686	1/1	0.97	0.15	40,40,40,40	0
56	MG	1a	3016	1/1	0.97	0.12	38,38,38,38	0
56	MG	2a	1741	1/1	0.97	0.09	57,57,57,57	0
56	MG	2A	3411	1/1	0.97	0.14	27,27,27,27	0
56	MG	1A	3097	1/1	0.97	0.09	24,24,24,24	0
56	MG	1A	3927	1/1	0.97	0.29	37,37,37,37	0
56	MG	1A	3045	1/1	0.97	0.17	13,13,13,13	0
56	MG	1A	3220	1/1	0.97	0.08	24,24,24,24	0
56	MG	2A	3693	1/1	0.97	0.05	68,68,68,68	0
56	MG	2A	3694	1/1	0.97	0.09	54,54,54,54	0
56	MG	1A	3162	1/1	0.97	0.13	24,24,24,24	0
56	MG	2A	3172	1/1	0.97	0.32	48,48,48,48	0
56	MG	1B	217	1/1	0.97	0.17	44,44,44,44	0
56	MG	1A	3255	1/1	0.97	0.11	36,36,36,36	0
56	MG	1B	219	1/1	0.97	0.12	27,27,27,27	0
56	MG	1a	3215	1/1	0.97	0.07	39,39,39,39	0
56	MG	2A	3423	1/1	0.97	0.12	22,22,22,22	0
56	MG	1b	3001	1/1	0.97	0.15	69,69,69,69	0
56	MG	1a	3025	1/1	0.97	0.16	24,24,24,24	0
56	MG	2A	3704	1/1	0.97	0.14	37,37,37,37	0
56	MG	1A	3163	1/1	0.97	0.08	24,24,24,24	0
56	MG	2A	3428	1/1	0.97	0.17	43,43,43,43	0
56	MG	1f	3001	1/1	0.97	0.11	31,31,31,31	0
56	MG	1A	3225	1/1	0.97	0.12	40,40,40,40	0
56	MG	1a	3028	1/1	0.97	0.14	37,37,37,37	0
56	MG	1B	222	1/1	0.97	0.22	48,48,48,48	0
56	MG	1A	3701	1/1	0.97	0.10	15,15,15,15	0
56	MG	1a	3031	1/1	0.97	0.06	54,54,54,54	0
56	MG	1A	3530	1/1	0.97	0.22	25,25,25,25	0
56	MG	1A	3599	1/1	0.97	0.11	15,15,15,15	0
56	MG	2A	3717	1/1	0.97	0.11	57,57,57,57	0
56	MG	1a	3035	1/1	0.97	0.22	49,49,49,49	0
56	MG	1A	3337	1/1	0.97	0.60	27,27,27,27	0
56	MG	1A	3260	1/1	0.97	0.15	18,18,18,18	0
56	MG	1A	3604	1/1	0.97	0.11	28,28,28,28	0
56	MG	1A	3164	1/1	0.97	0.17	12,12,12,12	0
56	MG	1A	3165	1/1	0.97	0.07	31,31,31,31	0
56	MG	1A	3114	1/1	0.97	0.32	22,22,22,22	0
56	MG	1A	3814	1/1	0.97	0.14	8,8,8,8	0
56	MG	1A	3610	1/1	0.97	0.17	45,45,45,45	0
56	MG	1A	3343	1/1	0.97	0.24	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3538	1/1	0.97	0.06	45,45,45,45	0
56	MG	1A	3614	1/1	0.97	0.15	15,15,15,15	0
56	MG	2A	3452	1/1	0.97	0.22	32,32,32,32	0
56	MG	2a	1787	1/1	0.97	0.06	53,53,53,53	0
56	MG	2A	3453	1/1	0.97	0.18	34,34,34,34	0
56	MG	1B	238	1/1	0.97	0.10	23,23,23,23	0
56	MG	2A	3455	1/1	0.97	0.15	42,42,42,42	0
56	MG	2A	3736	1/1	0.97	0.09	37,37,37,37	0
56	MG	1A	3615	1/1	0.97	0.11	12,12,12,12	0
56	MG	1A	3821	1/1	0.97	0.11	32,32,32,32	0
56	MG	2A	3740	1/1	0.97	0.22	37,37,37,37	0
56	MG	1A	3952	1/1	0.97	0.14	50,50,50,50	0
56	MG	1D	304	1/1	0.97	0.68	43,43,43,43	0
56	MG	1D	305	1/1	0.97	0.24	28,28,28,28	0
56	MG	1a	3054	1/1	0.97	0.06	46,46,46,46	0
56	MG	1A	3385	1/1	0.97	0.30	29,29,29,29	0
56	MG	1A	3954	1/1	0.97	0.15	53,53,53,53	0
56	MG	2A	3750	1/1	0.97	0.28	40,40,40,40	0
56	MG	2A	3751	1/1	0.97	0.78	44,44,44,44	0
56	MG	2A	3209	1/1	0.97	0.08	35,35,35,35	0
56	MG	1x	107	1/1	0.97	0.20	46,46,46,46	0
56	MG	1A	3716	1/1	0.97	0.10	45,45,45,45	0
56	MG	1a	3058	1/1	0.97	0.07	58,58,58,58	0
56	MG	1A	3824	1/1	0.97	0.13	33,33,33,33	0
56	MG	1A	3068	1/1	0.97	0.35	41,41,41,41	0
56	MG	1A	3541	1/1	0.97	0.10	35,35,35,35	0
56	MG	1A	3034	1/1	0.97	0.22	12,12,12,12	0
56	MG	2a	1816	1/1	0.97	0.15	48,48,48,48	0
56	MG	1A	3268	1/1	0.97	0.16	31,31,31,31	0
56	MG	1E	302	1/1	0.97	0.37	16,16,16,16	0
56	MG	1E	304	1/1	0.97	0.33	22,22,22,22	0
56	MG	1E	305	1/1	0.97	0.23	50,50,50,50	0
56	MG	1A	3829	1/1	0.97	0.17	43,43,43,43	0
56	MG	1A	3962	1/1	0.97	0.08	23,23,23,23	0
56	MG	1A	3830	1/1	0.97	0.26	39,39,39,39	0
56	MG	1a	3071	1/1	0.97	0.10	43,43,43,43	0
56	MG	1E	309	1/1	0.97	0.16	15,15,15,15	0
56	MG	1A	3964	1/1	0.97	0.27	45,45,45,45	0
56	MG	2a	1827	1/1	0.97	0.19	58,58,58,58	0
56	MG	1A	3017	1/1	0.97	0.11	19,19,19,19	0
56	MG	1A	3433	1/1	0.97	0.08	50,50,50,50	0
56	MG	2a	1830	1/1	0.97	0.16	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1F	302	1/1	0.97	0.32	30,30,30,30	0
56	MG	1A	3723	1/1	0.97	0.10	34,34,34,34	0
56	MG	1a	3078	1/1	0.97	0.11	48,48,48,48	0
56	MG	1a	3079	1/1	0.97	0.14	47,47,47,47	0
56	MG	2B	3020	1/1	0.97	0.14	54,54,54,54	0
56	MG	2B	3021	1/1	0.97	0.18	59,59,59,59	0
56	MG	1A	3623	1/1	0.97	0.15	41,41,41,41	0
56	MG	1A	3270	1/1	0.97	0.09	31,31,31,31	0
56	MG	2A	3235	1/1	0.97	0.18	40,40,40,40	0
56	MG	1A	3392	1/1	0.97	0.09	38,38,38,38	0
56	MG	2A	3016	1/1	0.97	0.20	32,32,32,32	0
56	MG	1A	3728	1/1	0.97	0.12	39,39,39,39	0
56	MG	2A	3500	1/1	0.97	0.13	49,49,49,49	0
56	MG	1A	3729	1/1	0.97	0.18	49,49,49,49	0
56	MG	2E	302	1/1	0.97	0.09	44,44,44,44	0
56	MG	1F	309	1/1	0.97	0.33	50,50,50,50	0
56	MG	2r	3001	1/1	0.97	0.15	56,56,56,56	0
56	MG	2E	304	1/1	0.97	0.20	49,49,49,49	0
56	MG	1a	3086	1/1	0.97	0.07	60,60,60,60	0
56	MG	1A	3015	1/1	0.97	0.16	37,37,37,37	0
56	MG	1G	3002	1/1	0.97	0.15	39,39,39,39	0
56	MG	2E	308	1/1	0.97	0.09	49,49,49,49	0
56	MG	2E	310	1/1	0.97	0.09	50,50,50,50	0
56	MG	1A	3840	1/1	0.97	0.17	32,32,32,32	0
56	MG	2A	3509	1/1	0.97	0.20	52,52,52,52	0
56	MG	1A	3038	1/1	0.97	0.22	25,25,25,25	0
56	MG	2A	3511	1/1	0.97	0.14	39,39,39,39	0
56	MG	1A	3842	1/1	0.97	0.07	34,34,34,34	0
56	MG	1A	3021	1/1	0.97	0.13	29,29,29,29	0
56	MG	2A	3029	1/1	0.97	0.14	36,36,36,36	0
56	MG	2P	201	1/1	0.97	0.13	54,54,54,54	0
56	MG	2A	3030	1/1	0.97	0.08	25,25,25,25	0
56	MG	1A	3734	1/1	0.97	0.08	42,42,42,42	0
56	MG	1A	3552	1/1	0.97	0.14	23,23,23,23	0
56	MG	1A	3846	1/1	0.97	0.10	48,48,48,48	0
56	MG	2A	3519	1/1	0.97	0.14	35,35,35,35	0
56	MG	1A	3173	1/1	0.97	0.29	34,34,34,34	0
56	MG	1a	3098	1/1	0.97	0.16	39,39,39,39	0
56	MG	2A	3522	1/1	0.97	0.08	49,49,49,49	0
56	MG	1N	205	1/1	0.97	0.49	48,48,48,48	0
57	K	2A	3327	1/1	0.97	0.11	29,29,29,29	0
57	K	2A	3745	1/1	0.97	0.08	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	3038	1/1	0.97	0.16	33,33,33,33	0
56	MG	1A	3848	1/1	0.97	0.10	34,34,34,34	0
59	ZN	1n	501	1/1	0.97	0.11	51,51,51,51	0
59	ZN	2Y	501	1/1	0.97	0.15	79,79,79,79	0
56	MG	1O	202	1/1	0.97	0.24	56,56,56,56	0
59	ZN	29	501	1/1	0.97	0.07	63,63,63,63	0
56	MG	2A	3527	1/1	0.97	0.18	52,52,52,52	0
56	MG	1A	3328	1/1	0.98	0.41	25,25,25,25	0
56	MG	1A	3685	1/1	0.98	0.22	21,21,21,21	0
56	MG	2A	3712	1/1	0.98	0.15	35,35,35,35	0
56	MG	1B	234	1/1	0.98	0.06	41,41,41,41	0
56	MG	1A	3601	1/1	0.98	0.08	24,24,24,24	0
56	MG	2A	3026	1/1	0.98	0.09	43,43,43,43	0
56	MG	2A	3343	1/1	0.98	0.28	36,36,36,36	0
56	MG	1A	3602	1/1	0.98	0.09	48,48,48,48	0
56	MG	1A	3978	1/1	0.98	0.08	33,33,33,33	0
56	MG	2a	1679	1/1	0.98	0.14	44,44,44,44	0
56	MG	1A	3375	1/1	0.98	0.37	34,34,34,34	0
56	MG	1A	3535	1/1	0.98	0.09	23,23,23,23	0
56	MG	2A	3721	1/1	0.98	0.07	50,50,50,50	0
56	MG	1A	3605	1/1	0.98	0.09	14,14,14,14	0
56	MG	2A	3032	1/1	0.98	0.12	41,41,41,41	0
56	MG	1A	3154	1/1	0.98	0.44	31,31,31,31	0
56	MG	2A	3534	1/1	0.98	0.11	53,53,53,53	0
56	MG	2a	1687	1/1	0.98	0.05	40,40,40,40	0
56	MG	1A	3983	1/1	0.98	0.17	32,32,32,32	0
56	MG	1A	3607	1/1	0.98	0.13	19,19,19,19	0
56	MG	1A	3693	1/1	0.98	0.12	40,40,40,40	0
56	MG	1A	3289	1/1	0.98	0.15	41,41,41,41	0
56	MG	1A	3250	1/1	0.98	0.31	20,20,20,20	0
56	MG	1A	3880	1/1	0.98	0.26	23,23,23,23	0
56	MG	1A	3009	1/1	0.98	0.11	24,24,24,24	0
56	MG	1D	312	1/1	0.98	0.25	27,27,27,27	0
56	MG	1A	3156	1/1	0.98	0.26	27,27,27,27	0
56	MG	2A	3043	1/1	0.98	0.10	40,40,40,40	0
56	MG	2a	1698	1/1	0.98	0.07	60,60,60,60	0
56	MG	1A	3699	1/1	0.98	0.08	25,25,25,25	0
56	MG	2A	3363	1/1	0.98	0.15	43,43,43,43	0
56	MG	2A	3739	1/1	0.98	0.23	29,29,29,29	0
56	MG	1A	3884	1/1	0.98	0.08	30,30,30,30	0
56	MG	2a	1703	1/1	0.98	0.12	41,41,41,41	0
56	MG	1A	3994	1/1	0.98	0.27	21,21,21,21	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	0.98	0.24	22,22,22,22	0
56	MG	2a	1706	1/1	0.98	0.05	54,54,54,54	0
56	MG	1A	3995	1/1	0.98	0.10	32,32,32,32	0
56	MG	1A	3334	1/1	0.98	0.21	22,22,22,22	0
56	MG	2A	3369	1/1	0.98	0.14	53,53,53,53	0
56	MG	1A	3088	1/1	0.98	0.20	32,32,32,32	0
56	MG	1A	3481	1/1	0.98	0.12	28,28,28,28	0
56	MG	2A	3555	1/1	0.98	0.15	38,38,38,38	0
56	MG	2A	3556	1/1	0.98	0.20	46,46,46,46	0
56	MG	2A	3557	1/1	0.98	0.24	27,27,27,27	0
56	MG	2A	3754	1/1	0.98	0.26	43,43,43,43	0
56	MG	1A	3221	1/1	0.98	0.28	21,21,21,21	0
56	MG	1A	4000	1/1	0.98	0.07	29,29,29,29	0
56	MG	1A	3483	1/1	0.98	0.39	32,32,32,32	0
56	MG	1A	3791	1/1	0.98	0.34	23,23,23,23	0
56	MG	1E	312	1/1	0.98	0.15	44,44,44,44	0
56	MG	1A	3001	1/1	0.98	0.09	32,32,32,32	0
56	MG	2A	3379	1/1	0.98	0.09	41,41,41,41	0
56	MG	2A	3059	1/1	0.98	0.16	35,35,35,35	0
56	MG	1F	301	1/1	0.98	0.58	23,23,23,23	0
56	MG	1A	3892	1/1	0.98	0.20	33,33,33,33	0
56	MG	1a	3034	1/1	0.98	0.14	44,44,44,44	0
56	MG	1A	4005	1/1	0.98	0.22	10,10,10,10	0
56	MG	1A	3485	1/1	0.98	0.22	21,21,21,21	0
56	MG	1A	3257	1/1	0.98	0.10	34,34,34,34	0
56	MG	1A	3896	1/1	0.98	0.20	42,42,42,42	0
56	MG	2a	1731	1/1	0.98	0.09	56,56,56,56	0
56	MG	1A	3223	1/1	0.98	0.20	34,34,34,34	0
56	MG	1A	3131	1/1	0.98	0.12	35,35,35,35	0
56	MG	2a	1734	1/1	0.98	0.11	48,48,48,48	0
56	MG	1A	3490	1/1	0.98	0.15	26,26,26,26	0
56	MG	1A	3035	1/1	0.98	0.20	24,24,24,24	0
56	MG	1A	3091	1/1	0.98	0.18	31,31,31,31	0
56	MG	2A	3393	1/1	0.98	0.19	44,44,44,44	0
56	MG	1A	3390	1/1	0.98	0.10	43,43,43,43	0
56	MG	1a	3045	1/1	0.98	0.11	52,52,52,52	0
56	MG	2A	3397	1/1	0.98	0.12	37,37,37,37	0
56	MG	1A	3074	1/1	0.98	0.32	24,24,24,24	0
56	MG	1A	3011	1/1	0.98	0.09	20,20,20,20	0
56	MG	1A	3136	1/1	0.98	0.08	21,21,21,21	0
56	MG	1A	3497	1/1	0.98	0.10	23,23,23,23	0
56	MG	1A	3807	1/1	0.98	0.11	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3395	1/1	0.98	0.14	33,33,33,33	0
56	MG	2A	3404	1/1	0.98	0.18	39,39,39,39	0
56	MG	1A	3809	1/1	0.98	0.09	30,30,30,30	0
56	MG	1A	3810	1/1	0.98	0.15	40,40,40,40	0
56	MG	1A	3632	1/1	0.98	0.29	27,27,27,27	0
56	MG	2A	3236	1/1	0.98	0.21	49,49,49,49	0
56	MG	1A	4024	1/1	0.98	0.35	43,43,43,43	0
56	MG	2A	3594	1/1	0.98	0.12	54,54,54,54	0
56	MG	1O	203	1/1	0.98	0.16	48,48,48,48	0
56	MG	1A	3499	1/1	0.98	0.14	23,23,23,23	0
56	MG	2a	1758	1/1	0.98	0.07	52,52,52,52	0
56	MG	1A	4026	1/1	0.98	0.52	35,35,35,35	0
56	MG	1A	3266	1/1	0.98	0.14	24,24,24,24	0
56	MG	1a	3199	1/1	0.98	0.19	47,47,47,47	0
56	MG	2A	3415	1/1	0.98	0.18	47,47,47,47	0
56	MG	2A	3243	1/1	0.98	0.18	49,49,49,49	0
56	MG	2A	3089	1/1	0.98	0.16	40,40,40,40	0
56	MG	1A	3348	1/1	0.98	0.13	44,44,44,44	0
56	MG	2a	1766	1/1	0.98	0.14	36,36,36,36	0
56	MG	1a	3201	1/1	0.98	0.06	44,44,44,44	0
56	MG	1A	3915	1/1	0.98	0.07	34,34,34,34	0
56	MG	1A	3012	1/1	0.98	0.19	13,13,13,13	0
56	MG	1a	3204	1/1	0.98	0.11	44,44,44,44	0
56	MG	1A	3917	1/1	0.98	0.14	31,31,31,31	0
56	MG	2A	3096	1/1	0.98	0.09	42,42,42,42	0
56	MG	1A	3013	1/1	0.98	0.10	14,14,14,14	0
56	MG	1A	3116	1/1	0.98	0.17	26,26,26,26	0
56	MG	1a	3208	1/1	0.98	0.11	42,42,42,42	0
56	MG	2a	1776	1/1	0.98	0.11	47,47,47,47	0
56	MG	1Q	203	1/1	0.98	0.22	28,28,28,28	0
56	MG	1A	3642	1/1	0.98	0.09	34,34,34,34	0
56	MG	1A	3727	1/1	0.98	0.05	42,42,42,42	0
56	MG	1A	4038	1/1	0.98	0.49	31,31,31,31	0
56	MG	1a	3070	1/1	0.98	0.05	30,30,30,30	0
56	MG	1A	3820	1/1	0.98	0.12	35,35,35,35	0
56	MG	1A	3007	1/1	0.98	0.10	12,12,12,12	0
56	MG	1A	3353	1/1	0.98	0.43	35,35,35,35	0
56	MG	2A	3437	1/1	0.98	0.24	39,39,39,39	0
56	MG	1A	3645	1/1	0.98	0.11	25,25,25,25	0
56	MG	1A	3507	1/1	0.98	0.19	24,24,24,24	0
56	MG	2A	3440	1/1	0.98	0.13	51,51,51,51	0
56	MG	1A	3732	1/1	0.98	0.07	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	2a	1790	1/1	0.98	0.21	50,50,50,50	0
56	MG	1A	3064	1/1	0.98	0.11	12,12,12,12	0
56	MG	1A	3310	1/1	0.98	0.17	24,24,24,24	0
56	MG	1A	3573	1/1	0.98	0.09	24,24,24,24	0
56	MG	2A	3629	1/1	0.98	0.18	62,62,62,62	0
56	MG	1A	3142	1/1	0.98	0.12	17,17,17,17	0
56	MG	2A	3631	1/1	0.98	0.11	53,53,53,53	0
56	MG	1A	3932	1/1	0.98	0.23	13,13,13,13	0
56	MG	1A	4050	1/1	0.98	0.28	26,26,26,26	0
56	MG	1A	3651	1/1	0.98	0.12	22,22,22,22	0
56	MG	1U	206	1/1	0.98	0.21	16,16,16,16	0
56	MG	2a	1801	1/1	0.98	0.09	63,63,63,63	0
56	MG	2A	3120	1/1	0.98	0.13	38,38,38,38	0
56	MG	1A	3738	1/1	0.98	0.09	32,32,32,32	0
56	MG	1A	3652	1/1	0.98	0.15	23,23,23,23	0
56	MG	1A	3003	1/1	0.98	0.20	19,19,19,19	0
56	MG	1A	3654	1/1	0.98	0.14	37,37,37,37	0
56	MG	2A	3641	1/1	0.98	0.13	50,50,50,50	0
56	MG	2a	1601	1/1	0.98	0.24	46,46,46,46	0
56	MG	1A	4056	1/1	0.98	0.32	33,33,33,33	0
56	MG	1A	4057	1/1	0.98	0.21	27,27,27,27	0
56	MG	1A	3120	1/1	0.98	0.33	29,29,29,29	0
56	MG	2a	1812	1/1	0.98	0.11	64,64,64,64	0
56	MG	2a	1813	1/1	0.98	0.05	54,54,54,54	0
56	MG	2a	1814	1/1	0.98	0.14	63,63,63,63	0
56	MG	2A	3459	1/1	0.98	0.08	50,50,50,50	0
56	MG	1A	3577	1/1	0.98	0.13	54,54,54,54	0
56	MG	1A	3099	1/1	0.98	0.24	23,23,23,23	0
56	MG	1X	104	1/1	0.98	0.20	31,31,31,31	0
56	MG	1a	3095	1/1	0.98	0.11	55,55,55,55	0
56	MG	1A	3053	1/1	0.98	0.07	43,43,43,43	0
56	MG	1A	3580	1/1	0.98	0.07	18,18,18,18	0
56	MG	1A	4063	1/1	0.98	0.40	31,31,31,31	0
56	MG	1A	3661	1/1	0.98	0.17	18,18,18,18	0
56	MG	2A	3469	1/1	0.98	0.29	39,39,39,39	0
56	MG	2A	3291	1/1	0.98	0.12	55,55,55,55	0
56	MG	2A	3292	1/1	0.98	0.16	31,31,31,31	0
56	MG	1A	3662	1/1	0.98	0.19	32,32,32,32	0
56	MG	2A	3473	1/1	0.98	0.10	29,29,29,29	0
56	MG	2A	3661	1/1	0.98	0.26	36,36,36,36	0
56	MG	2A	3662	1/1	0.98	0.26	28,28,28,28	0
56	MG	2A	3138	1/1	0.98	0.23	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1832	1/1	0.98	0.13	37,37,37,37	0
56	MG	2A	3475	1/1	0.98	0.20	37,37,37,37	0
56	MG	1A	4066	1/1	0.98	0.23	35,35,35,35	0
56	MG	1A	3515	1/1	0.98	0.21	11,11,11,11	0
56	MG	1A	3176	1/1	0.98	0.44	25,25,25,25	0
56	MG	2A	3668	1/1	0.98	0.12	41,41,41,41	0
56	MG	1A	3041	1/1	0.98	0.11	32,32,32,32	0
56	MG	1A	3948	1/1	0.98	0.09	14,14,14,14	0
56	MG	1A	3318	1/1	0.98	0.20	46,46,46,46	0
56	MG	1A	3667	1/1	0.98	0.18	31,31,31,31	0
56	MG	1A	3754	1/1	0.98	0.22	22,22,22,22	0
56	MG	2A	3674	1/1	0.98	0.22	23,23,23,23	0
56	MG	1A	3519	1/1	0.98	0.17	21,21,21,21	0
56	MG	2q	201	1/1	0.98	0.07	46,46,46,46	0
56	MG	1x	113	1/1	0.98	0.12	58,58,58,58	0
56	MG	1A	3587	1/1	0.98	0.10	12,12,12,12	0
56	MG	1A	3364	1/1	0.98	0.14	23,23,23,23	0
56	MG	1A	3031	1/1	0.98	0.31	34,34,34,34	0
56	MG	1A	3084	1/1	0.98	0.10	35,35,35,35	0
56	MG	1A	3211	1/1	0.98	0.23	30,30,30,30	0
56	MG	2v	3001	1/1	0.98	0.07	49,49,49,49	0
56	MG	1A	3854	1/1	0.98	0.12	46,46,46,46	0
56	MG	1B	216	1/1	0.98	0.17	42,42,42,42	0
56	MG	1A	3855	1/1	0.98	0.04	49,49,49,49	0
56	MG	2v	3005	1/1	0.98	0.15	56,56,56,56	0
56	MG	2A	3003	1/1	0.98	0.19	49,49,49,49	0
56	MG	1A	3181	1/1	0.98	0.08	43,43,43,43	0
56	MG	2A	3315	1/1	0.98	0.20	42,42,42,42	0
56	MG	1A	3069	1/1	0.98	0.26	27,27,27,27	0
56	MG	1A	3677	1/1	0.98	0.17	18,18,18,18	0
56	MG	1A	3023	1/1	0.98	0.16	43,43,43,43	0
56	MG	2w	107	1/1	0.98	0.14	55,55,55,55	0
56	MG	2w	108	1/1	0.98	0.08	68,68,68,68	0
56	MG	2a	1649	1/1	0.98	0.22	41,41,41,41	0
56	MG	1A	3325	1/1	0.98	0.14	33,33,33,33	0
56	MG	2A	3320	1/1	0.98	0.20	17,17,17,17	0
56	MG	1A	3529	1/1	0.98	0.09	34,34,34,34	0
56	MG	1A	3966	1/1	0.98	0.08	41,41,41,41	0
56	MG	2x	105	1/1	0.98	0.14	47,47,47,47	0
56	MG	1A	3286	1/1	0.98	0.15	34,34,34,34	0
56	MG	2y	3002	1/1	0.98	0.14	51,51,51,51	0
56	MG	1A	3470	1/1	0.98	0.17	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	2A	3325	1/1	0.98	0.51	63,63,63,63	0
56	MG	1A	3864	1/1	0.98	0.23	20,20,20,20	0
56	MG	2A	3328	1/1	0.98	0.23	45,45,45,45	0
56	MG	1A	3865	1/1	0.98	0.18	18,18,18,18	0
57	K	1A	3486	1/1	0.98	0.07	19,19,19,19	0
56	MG	2A	3330	1/1	0.98	0.20	42,42,42,42	0
56	MG	17	103	1/1	0.98	0.47	33,33,33,33	0
56	MG	1a	3131	1/1	0.98	0.10	38,38,38,38	0
56	MG	17	104	1/1	0.98	0.08	27,27,27,27	0
56	MG	1A	3153	1/1	0.98	0.16	29,29,29,29	0
59	ZN	19	501	1/1	0.98	0.17	42,42,42,42	0
56	MG	2a	1665	1/1	0.98	0.15	49,49,49,49	0
56	MG	2A	3335	1/1	0.98	0.11	49,49,49,49	0
56	MG	1A	3972	1/1	0.98	0.15	49,49,49,49	0
59	ZN	25	501	1/1	0.98	0.18	45,45,45,45	0
59	ZN	26	501	1/1	0.98	0.09	59,59,59,59	0
56	MG	1A	3770	1/1	0.98	0.16	12,12,12,12	0
56	MG	2A	3709	1/1	0.98	0.14	40,40,40,40	0
60	SF4	1d	501	8/8	0.98	0.16	52,54,61,66	0
60	SF4	2d	501	8/8	0.98	0.15	58,60,69,79	0
56	MG	1a	3179	1/1	0.99	0.13	39,39,39,39	0
56	MG	2A	3395	1/1	0.99	0.21	33,33,33,33	0
56	MG	1A	3800	1/1	0.99	0.20	54,54,54,54	0
56	MG	1A	3254	1/1	0.99	0.29	11,11,11,11	0
56	MG	1A	3669	1/1	0.99	0.11	35,35,35,35	0
56	MG	1A	3042	1/1	0.99	0.21	19,19,19,19	0
56	MG	2A	3355	1/1	0.99	0.21	23,23,23,23	0
56	MG	1A	3161	1/1	0.99	0.24	20,20,20,20	0
56	MG	1a	3185	1/1	0.99	0.10	26,26,26,26	0
56	MG	1A	3585	1/1	0.99	0.16	30,30,30,30	0
56	MG	1D	308	1/1	0.99	0.32	26,26,26,26	0
56	MG	2A	3450	1/1	0.99	0.14	37,37,37,37	0
56	MG	2A	3649	1/1	0.99	0.13	21,21,21,21	0
56	MG	1A	3557	1/1	0.99	0.08	25,25,25,25	0
56	MG	1A	3544	1/1	0.99	0.08	12,12,12,12	0
56	MG	1A	3696	1/1	0.99	0.23	46,46,46,46	0
56	MG	2A	3114	1/1	0.99	0.28	29,29,29,29	0
56	MG	1A	3635	1/1	0.99	0.22	25,25,25,25	0
56	MG	2A	3504	1/1	0.99	0.08	29,29,29,29	0
56	MG	2A	3505	1/1	0.99	0.08	42,42,42,42	0
56	MG	1A	3636	1/1	0.99	0.16	21,21,21,21	0
56	MG	1A	3214	1/1	0.99	0.31	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	3338	1/1	0.99	0.22	19,19,19,19	0
56	MG	2a	1749	1/1	0.99	0.05	55,55,55,55	0
56	MG	2A	3660	1/1	0.99	0.13	37,37,37,37	0
56	MG	1A	3639	1/1	0.99	0.09	39,39,39,39	0
56	MG	1A	3522	1/1	0.99	0.15	30,30,30,30	0
56	MG	1A	3987	1/1	0.99	0.22	36,36,36,36	0
56	MG	1A	3660	1/1	0.99	0.09	26,26,26,26	0
56	MG	1U	204	1/1	0.99	0.26	23,23,23,23	0
56	MG	1a	3102	1/1	0.99	0.16	39,39,39,39	0
56	MG	2A	3465	1/1	0.99	0.28	42,42,42,42	0
56	MG	2A	3288	1/1	0.99	0.25	30,30,30,30	0
56	MG	1A	3258	1/1	0.99	0.20	33,33,33,33	0
56	MG	1A	3793	1/1	0.99	0.25	26,26,26,26	0
56	MG	1B	205	1/1	0.99	0.30	45,45,45,45	0
56	MG	2A	3051	1/1	0.99	0.05	46,46,46,46	0
56	MG	2A	3424	1/1	0.99	0.09	24,24,24,24	0
56	MG	2A	3129	1/1	0.99	0.19	54,54,54,54	0
56	MG	1A	3267	1/1	0.99	0.12	24,24,24,24	0
56	MG	2A	3171	1/1	0.99	0.05	51,51,51,51	0
56	MG	1w	109	1/1	0.99	0.41	37,37,37,37	0
56	MG	1A	3178	1/1	0.99	0.29	21,21,21,21	0
56	MG	1A	3115	1/1	0.99	0.20	39,39,39,39	0
56	MG	2A	3732	1/1	0.99	0.31	24,24,24,24	0
56	MG	1W	3002	1/1	0.99	0.16	29,29,29,29	0
59	ZN	1Y	501	1/1	0.99	0.14	58,58,58,58	0
59	ZN	14	501	1/1	0.99	0.13	70,70,70,70	0
59	ZN	15	104	1/1	0.99	0.20	42,42,42,42	0
59	ZN	16	102	1/1	0.99	0.17	38,38,38,38	0
56	MG	2A	3019	1/1	0.99	0.19	50,50,50,50	0
56	MG	1A	3393	1/1	0.99	0.22	24,24,24,24	0
56	MG	1W	3004	1/1	0.99	0.20	21,21,21,21	0
56	MG	2A	3482	1/1	0.99	0.17	38,38,38,38	0
56	MG	2E	309	1/1	0.99	0.06	41,41,41,41	0
56	MG	1A	3894	1/1	0.99	0.09	37,37,37,37	0
56	MG	1A	3150	1/1	0.99	0.25	27,27,27,27	0
56	MG	1A	3612	1/1	0.99	0.09	24,24,24,24	0
56	MG	2A	3741	1/1	0.99	0.12	39,39,39,39	0
56	MG	1a	3213	1/1	0.99	0.15	33,33,33,33	0
56	MG	1A	3189	1/1	1.00	0.11	23,23,23,23	0
56	MG	2A	3370	1/1	1.00	0.17	44,44,44,44	0

6.5 Other polymers (i)

There are no such residues in this entry.