wwPDB X-ray Structure Validation Summary Report (i)

Aug 21, 2025 – 06:31 PM EDT

PDB ID	:	9D0H / pdb_00009d0h
Title	:	Crystal structure of the wild-type Thermus thermophilus 70S ribosome in complex with C-cresomycin, mRNA, deacylated A-site tRNAphe, aminoacylated P-site fMet-tRNAmet, and deacylated E-site tRNAphe at 2.50A resolution
Authors	:	Aleksandrova, E.V.; Wu, K.J.Y.; Robinson, P.J.; Benedetto, A.E.; Yu, M.; Tresco, B.I.C.; See, D.N.Y.; Jiang, T.; Ramkissoon, A.; Dunand, C.F.; Svetlov, M.S.; Lee, J.; Myers, A.G.; Polikanov, Y.S.
Deposited on	:	2024-08-07
Resolution	:	2.50 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 (i)) were used in the production of this report:

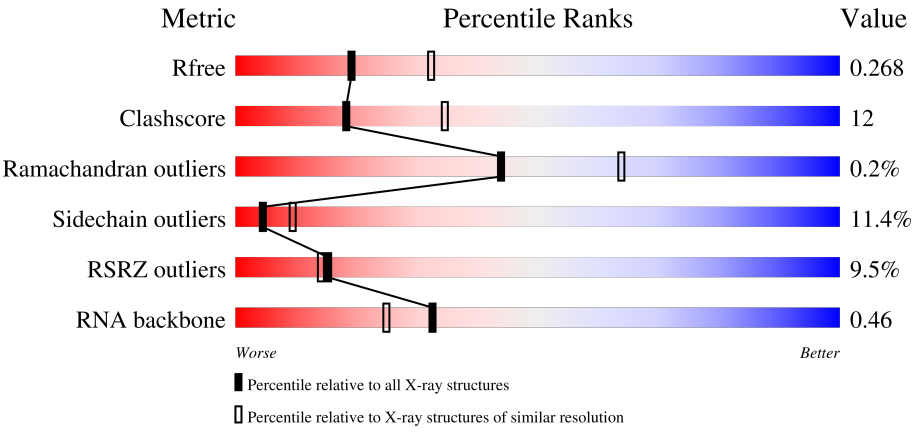
MolProbity	:	4-5-2 with Phenix2.0rc1
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.006 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)

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 2.50 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}	164625	5504 (2.50-2.50)
Clashscore	180529	6282 (2.50-2.50)
Ramachandran outliers	177936	6191 (2.50-2.50)
Sidechain outliers	177891	6193 (2.50-2.50)
RSRZ outliers	164620	5504 (2.50-2.50)
RNA backbone	3690	1181 (2.80-2.20)

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	4% 64% 27% 7% .
1	2A	2915	4% 52% 35% 9% .

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Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.45.1

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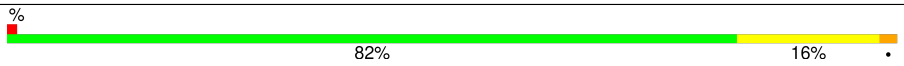
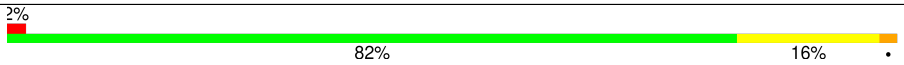
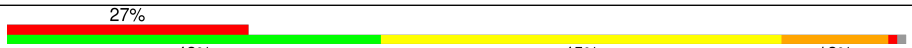
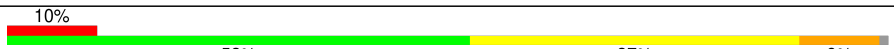
2	2B	121	
3	1D	276	
3	2D	276	
4	1E	206	
4	2E	206	
5	1F	210	
5	2F	210	
6	1G	182	
6	2G	182	
7	1H	180	
7	2H	180	
8	1I	148	
8	2I	148	
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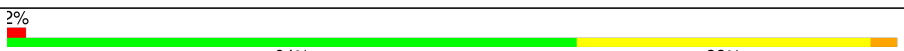
9	2N	140	
10	1O	122	
10	2O	122	
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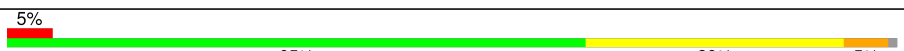
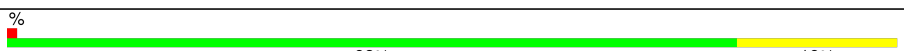
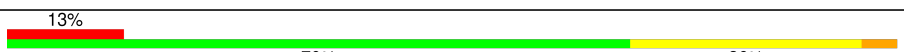
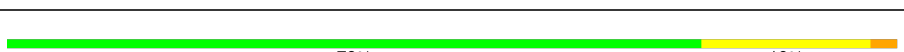
11	2P	150	
12	1Q	141	
12	2Q	141	
13	1R	118	
13	2R	118	
14	1S	112	

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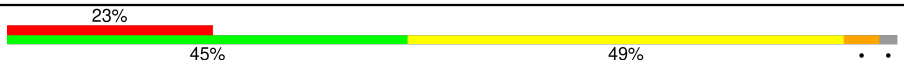
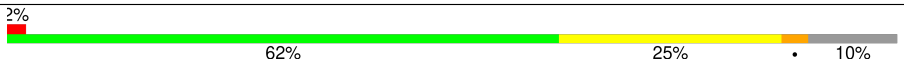
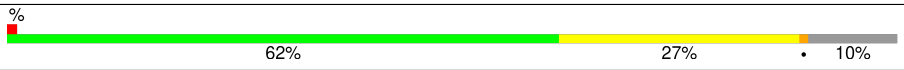
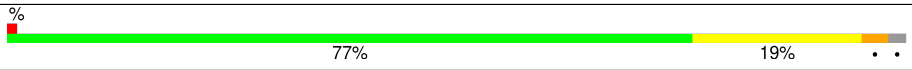
Mol	Chain	Length	Quality of chain
14	2S	112	
15	1T	146	
15	2T	146	
16	1U	118	
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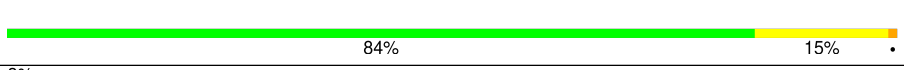
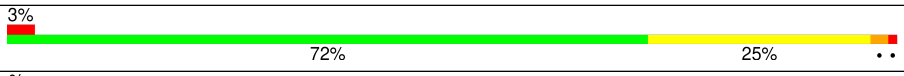
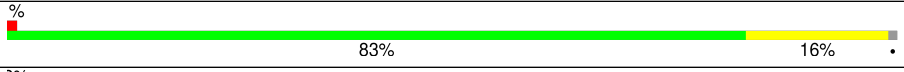
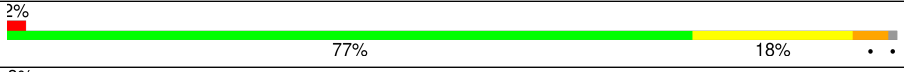
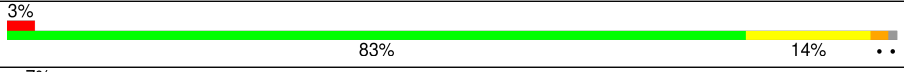
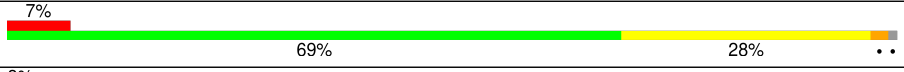
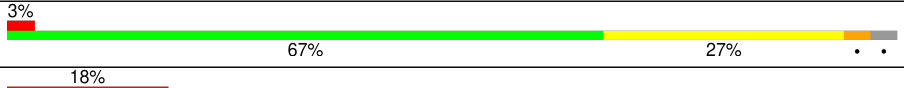
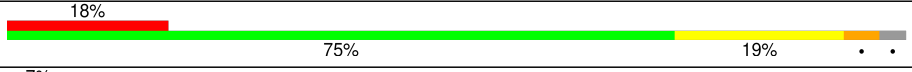
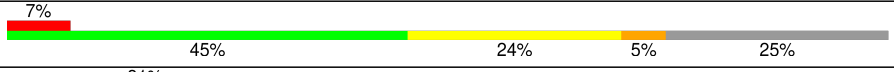
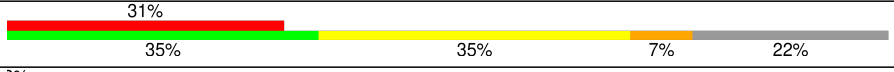
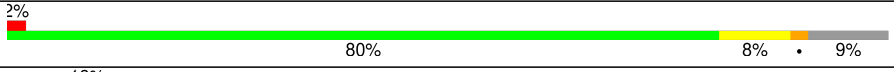
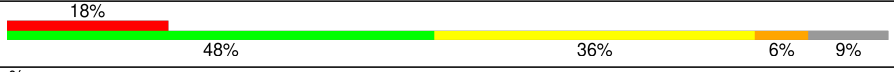
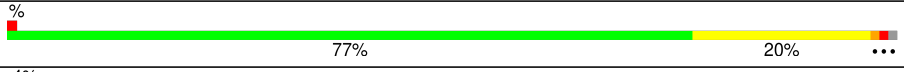
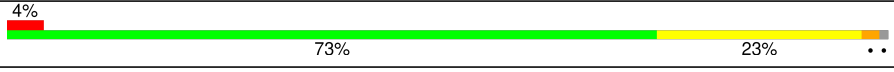
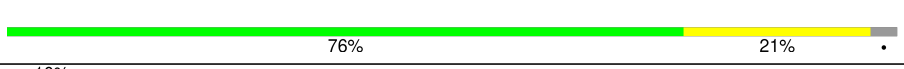
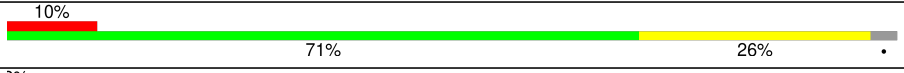
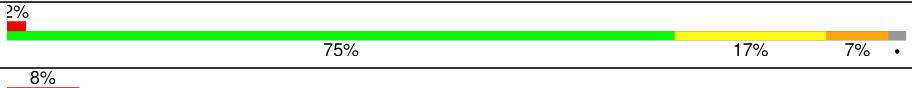
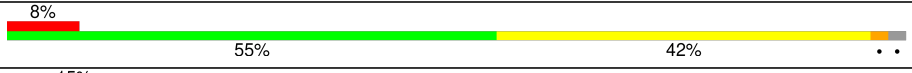
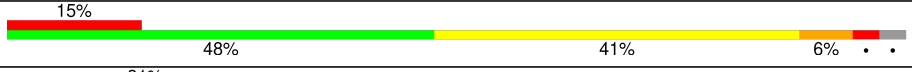
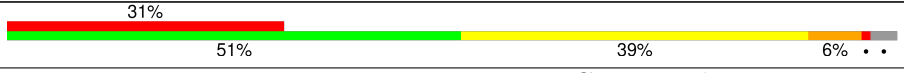
17	1V	101	
17	2V	101	
18	1W	113	
18	2W	113	
19	1X	96	
19	2X	96	
20	1Y	110	
20	2Y	110	
21	1Z	206	
21	2Z	206	
22	10	85	
22	20	85	
23	11	98	
23	21	98	
24	12	72	
24	22	72	
25	13	60	
25	23	60	
26	14	71	
26	24	71	

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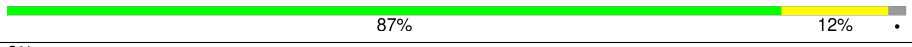
Mol	Chain	Length	Quality of chain
27	15	60	
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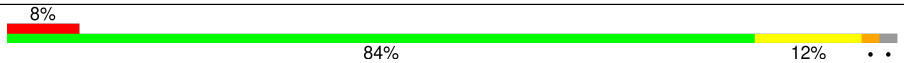
28	16	54	
28	26	54	
29	17	49	
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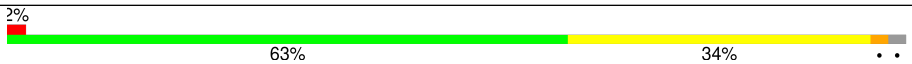
30	28	65	
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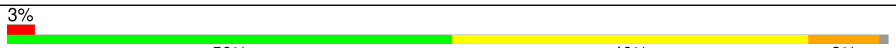
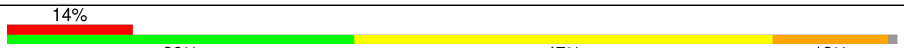
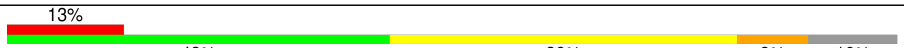
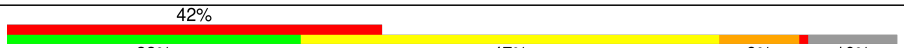
31	29	37	
32	1a	1521	
32	2a	1521	
33	1b	256	
33	2b	256	
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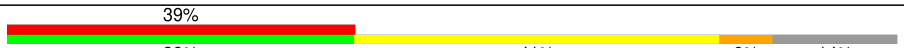
34	2c	239	
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35	2d	209	
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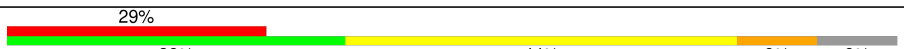
36	2e	162	
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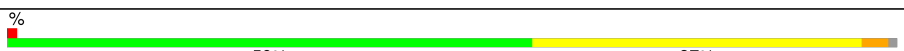
37	2f	101	
38	1g	156	
38	2g	156	
39	1h	138	

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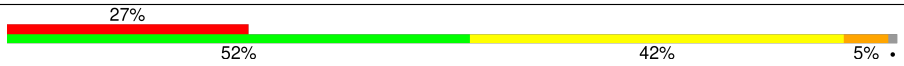
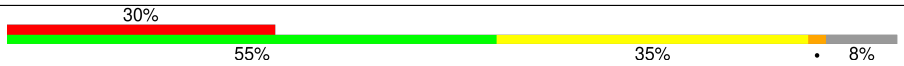
40	1i	128	
40	2i	128	
41	1j	105	
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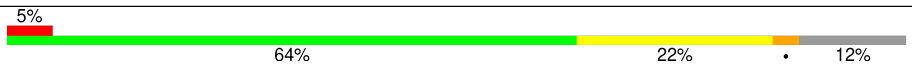
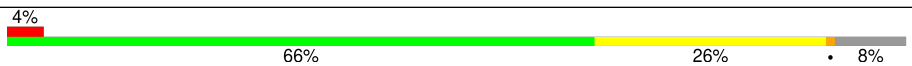
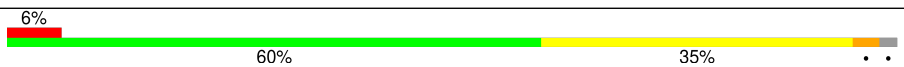
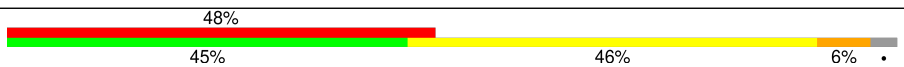
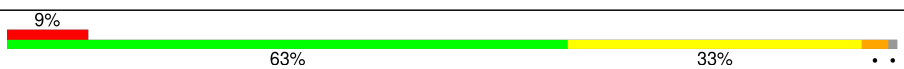
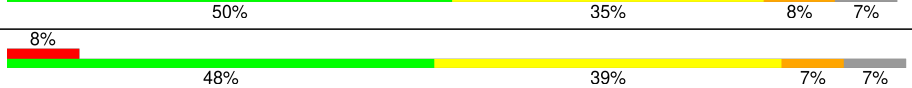
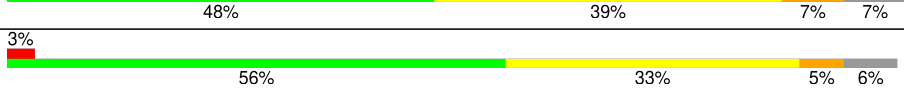
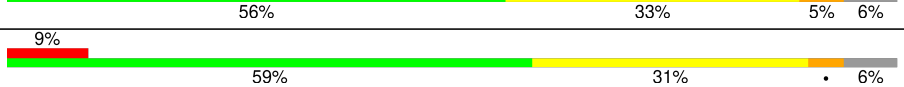
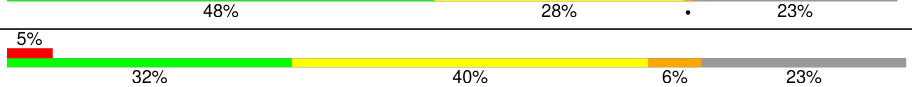
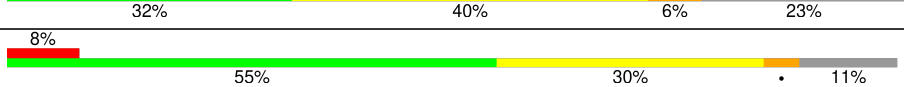
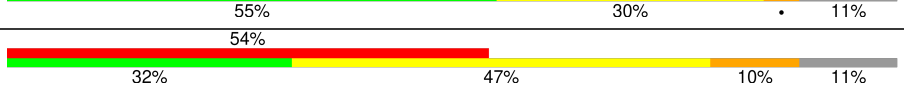
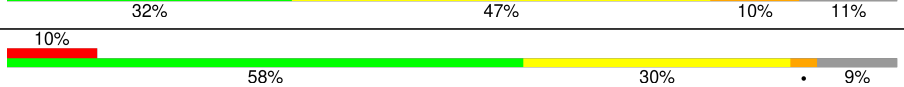
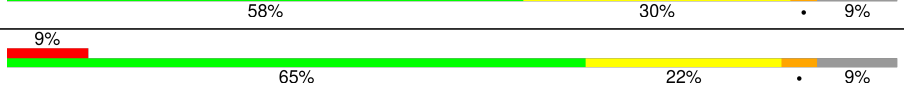
42	1k	129	
42	2k	129	
43	1l	132	
43	2l	132	
44	1m	126	
44	2m	126	
45	1n	61	
45	2n	61	
46	1o	89	
46	2o	89	
47	1p	88	
47	2p	88	
48	1q	105	
48	2q	105	
49	1r	88	
49	2r	88	
50	1s	93	
50	2s	93	
51	1t	106	
51	2t	106	

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Mol	Chain	Length	Quality of chain
52	1u	27	11% 48% 37% 15%
52	2u	27	52% 56% 19% 11% 15%
53	1v	24	8% 38% 12% 46%
53	2v	24	25% 21% 25% 8% 46%
54	1w	76	12% 29% 46% 17% 7%
54	1y	76	16% 32% 36% 28%
54	2w	76	46% 33% 46% 12% 9%
54	2y	76	18% 30% 39% 25%
55	1x	77	70% 22% 6%
55	2x	77	3% 48% 43% 8%

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	3434	-	-	-	X
56	MG	2A	3343	-	-	-	X
56	MG	2A	3363	-	-	-	X
56	MG	2a	1608	-	-	-	X
60	SF4	1d	501	-	-	X	-

2 Entry composition (i)

There are 61 unique types of molecules in this entry. The entry contains 300042 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			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	2O	122	Total	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			
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	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			
22	20	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 53 is a RNA chain called MF-mRNA.

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

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

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1w	71	Total	C	N	O	P	S	0	0	0
			1530	685	274	498	71	2			
54	1y	74	Total	C	N	O	P	S	0	0	0
			1585	707	285	518	74	1			
54	2w	69	Total	C	N	O	P	S	0	0	0
			1482	662	267	482	69	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 Aminoacylated fMet-tRNAmet.

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

- Molecule 56 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1101	Total	Mg	0	0
			1101	1101		
56	1B	37	Total	Mg	0	0
			37	37		
56	1D	13	Total	Mg	0	0
			13	13		
56	1E	15	Total	Mg	0	0
			15	15		
56	1F	15	Total	Mg	0	0
			15	15		
56	1G	4	Total	Mg	0	0
			4	4		
56	1I	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	1N	5	Total Mg 5 5	0	0
56	1O	6	Total Mg 6 6	0	0
56	1P	6	Total Mg 6 6	0	0
56	1Q	6	Total Mg 6 6	0	0
56	1R	5	Total Mg 5 5	0	0
56	1S	3	Total Mg 3 3	0	0
56	1T	3	Total Mg 3 3	0	0
56	1U	10	Total Mg 10 10	0	0
56	1V	6	Total Mg 6 6	0	0
56	1W	7	Total Mg 7 7	0	0
56	1X	6	Total Mg 6 6	0	0
56	1Y	3	Total Mg 3 3	0	0
56	1Z	3	Total Mg 3 3	0	0
56	10	8	Total Mg 8 8	0	0
56	11	6	Total Mg 6 6	0	0
56	12	2	Total Mg 2 2	0	0
56	13	5	Total Mg 5 5	0	0
56	14	2	Total Mg 2 2	0	0
56	15	6	Total Mg 6 6	0	0
56	16	1	Total Mg 1 1	0	0
56	17	4	Total Mg 4 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	18	7	Total Mg 7 7	0	0
56	19	1	Total Mg 1 1	0	0
56	1a	215	Total Mg 215 215	0	0
56	1b	1	Total Mg 1 1	0	0
56	1e	2	Total Mg 2 2	0	0
56	1f	2	Total Mg 2 2	0	0
56	1h	1	Total Mg 1 1	0	0
56	1k	1	Total Mg 1 1	0	0
56	1l	2	Total Mg 2 2	0	0
56	1m	1	Total Mg 1 1	0	0
56	1n	2	Total Mg 2 2	0	0
56	1p	1	Total Mg 1 1	0	0
56	1t	1	Total Mg 1 1	0	0
56	1w	7	Total Mg 7 7	0	0
56	1x	14	Total Mg 14 14	0	0
56	1y	2	Total Mg 2 2	0	0
56	2A	875	Total Mg 875 875	0	0
56	2B	20	Total Mg 20 20	0	0
56	2D	9	Total Mg 9 9	0	0
56	2E	10	Total Mg 10 10	0	0
56	2F	6	Total Mg 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2G	1	Total Mg 1 1	0	0
56	2O	1	Total Mg 1 1	0	0
56	2P	1	Total Mg 1 1	0	0
56	2Q	4	Total Mg 4 4	0	0
56	2R	1	Total Mg 1 1	0	0
56	2T	3	Total Mg 3 3	0	0
56	2U	2	Total Mg 2 2	0	0
56	2V	2	Total Mg 2 2	0	0
56	2W	4	Total Mg 4 4	0	0
56	2X	1	Total Mg 1 1	0	0
56	2Z	1	Total Mg 1 1	0	0
56	20	2	Total Mg 2 2	0	0
56	21	3	Total Mg 3 3	0	0
56	23	1	Total Mg 1 1	0	0
56	25	5	Total Mg 5 5	0	0
56	26	1	Total Mg 1 1	0	0
56	27	2	Total Mg 2 2	0	0
56	28	4	Total Mg 4 4	0	0
56	29	1	Total Mg 1 1	0	0
56	2a	241	Total Mg 241 241	0	0
56	2d	1	Total Mg 1 1	0	0

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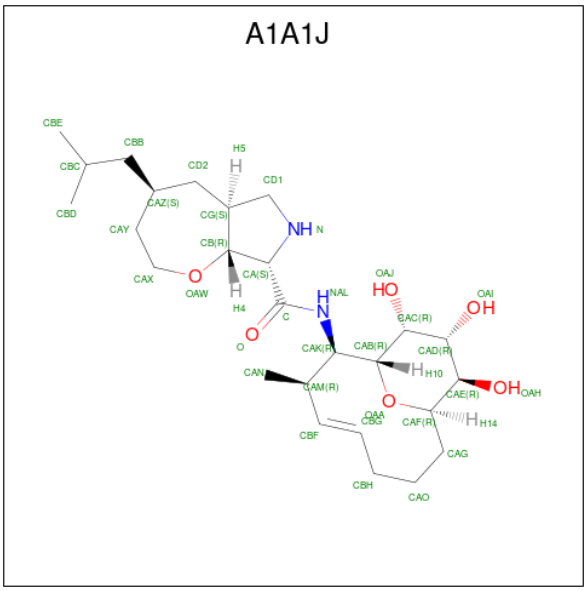
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2e	1	Total Mg 1 1	0	0
56	2f	1	Total Mg 1 1	0	0
56	2g	1	Total Mg 1 1	0	0
56	2j	1	Total Mg 1 1	0	0
56	2l	4	Total Mg 4 4	0	0
56	2q	3	Total Mg 3 3	0	0
56	2r	2	Total Mg 2 2	0	0
56	2t	1	Total Mg 1 1	0	0
56	2v	4	Total Mg 4 4	0	0
56	2w	7	Total Mg 7 7	0	0
56	2x	7	Total Mg 7 7	0	0
56	2y	7	Total Mg 7 7	0	0

- Molecule 57 is POTASSIUM ION (CCD ID: K) (formula: K).

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

- Molecule 58 is (4S,5aS,8S,8aR)-4-(2-methylpropyl)-N-[(1R,2R,3R,4Z,9R,10R,11R,12R)-10,11,12-trihydroxy-3-methyl-13-oxabicyclo[7.3.1]tridec-4-en-2-yl]octahydro-2H-oxepino[2,3-c]pyrrole-8-carboxamide (CCD ID: A1A1J) (formula: $C_{26}H_{44}N_2O_6$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	1A	1	Total C N O 34 26 2 6	0	0
58	2A	1	Total C N O 34 26 2 6	0	0

- Molecule 59 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

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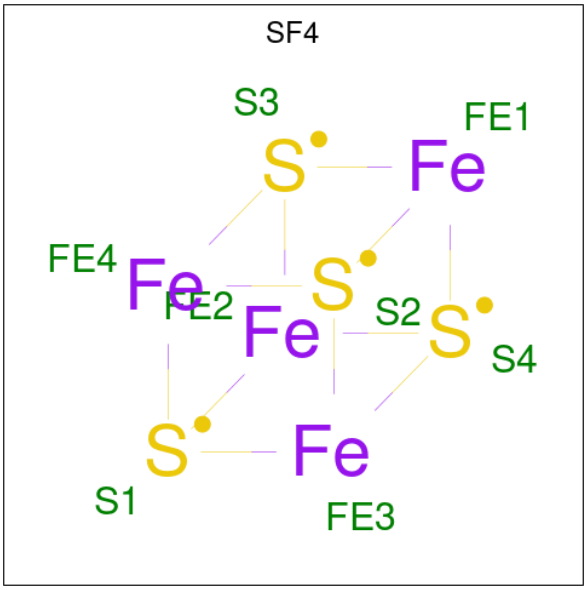
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	29	1	Total Zn 1 1	0	0
59	2n	1	Total Zn 1 1	0	0

- Molecule 60 is IRON/SULFUR CLUSTER (CCD ID: 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	2027	Total O 2027 2027	0	0
61	1B	61	Total O 61 61	0	0
61	1D	29	Total O 29 29	0	0
61	1E	27	Total O 27 27	0	0
61	1F	14	Total O 14 14	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1G	3	Total O 3 3	0	0
61	1H	2	Total O 2 2	0	0
61	1I	1	Total O 1 1	0	0
61	1N	5	Total O 5 5	0	0
61	1O	7	Total O 7 7	0	0
61	1P	19	Total O 19 19	0	0
61	1Q	9	Total O 9 9	0	0
61	1R	15	Total O 15 15	0	0
61	1S	5	Total O 5 5	0	0
61	1T	8	Total O 8 8	0	0
61	1U	10	Total O 10 10	0	0
61	1V	8	Total O 8 8	0	0
61	1W	11	Total O 11 11	0	0
61	1X	4	Total O 4 4	0	0
61	1Y	2	Total O 2 2	0	0
61	1Z	1	Total O 1 1	0	0
61	10	8	Total O 8 8	0	0
61	11	11	Total O 11 11	0	0
61	12	4	Total O 4 4	0	0
61	13	4	Total O 4 4	0	0
61	15	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	16	4	Total O 4 4	0	0
61	17	9	Total O 9 9	0	0
61	18	12	Total O 12 12	0	0
61	1a	377	Total O 377 377	0	0
61	1b	1	Total O 1 1	0	0
61	1g	1	Total O 1 1	0	0
61	1i	1	Total O 1 1	0	0
61	1l	8	Total O 8 8	0	0
61	1m	1	Total O 1 1	0	0
61	1o	2	Total O 2 2	0	0
61	1p	1	Total O 1 1	0	0
61	1q	2	Total O 2 2	0	0
61	1u	1	Total O 1 1	0	0
61	1v	3	Total O 3 3	0	0
61	1w	7	Total O 7 7	0	0
61	1x	13	Total O 13 13	0	0
61	1y	2	Total O 2 2	0	0
61	2A	1183	Total O 1183 1183	0	0
61	2B	25	Total O 25 25	0	0
61	2D	18	Total O 18 18	0	0
61	2E	15	Total O 15 15	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2F	12	Total O 12 12	0	0
61	2I	3	Total O 3 3	0	0
61	2N	1	Total O 1 1	0	0
61	2O	1	Total O 1 1	0	0
61	2P	16	Total O 16 16	0	0
61	2Q	1	Total O 1 1	0	0
61	2R	3	Total O 3 3	0	0
61	2T	6	Total O 6 6	0	0
61	2U	4	Total O 4 4	0	0
61	2W	1	Total O 1 1	0	0
61	2X	2	Total O 2 2	0	0
61	2Y	2	Total O 2 2	0	0
61	2Z	1	Total O 1 1	0	0
61	20	3	Total O 3 3	0	0
61	21	9	Total O 9 9	0	0
61	23	2	Total O 2 2	0	0
61	25	1	Total O 1 1	0	0
61	26	1	Total O 1 1	0	0
61	27	5	Total O 5 5	0	0
61	28	3	Total O 3 3	0	0
61	29	1	Total O 1 1	0	0

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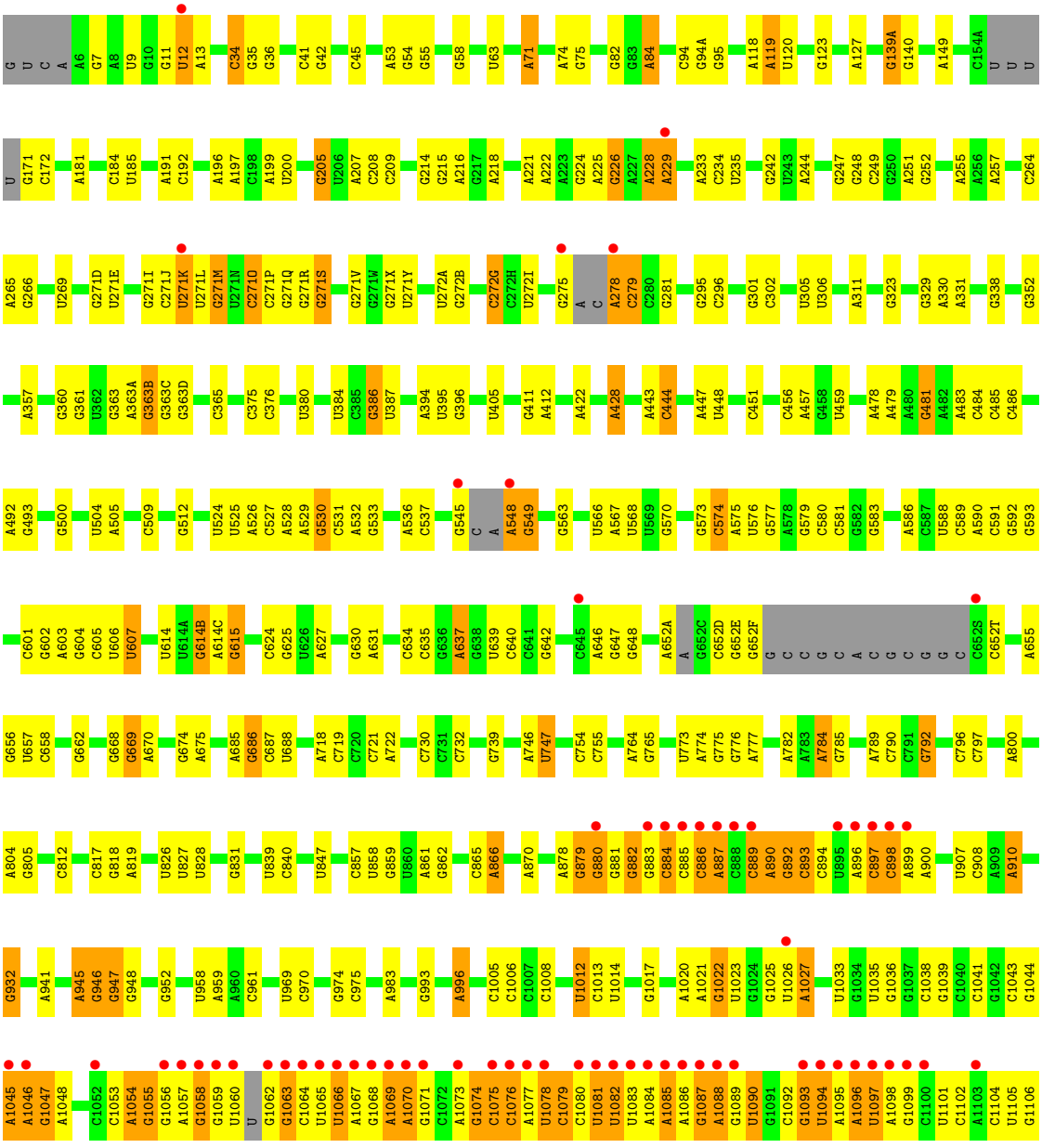
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2a	265	Total O 265 265	0	0
61	2d	1	Total O 1 1	0	0
61	2e	1	Total O 1 1	0	0
61	2i	1	Total O 1 1	0	0
61	2j	3	Total O 3 3	0	0
61	2l	6	Total O 6 6	0	0
61	2p	3	Total O 3 3	0	0
61	2q	1	Total O 1 1	0	0
61	2r	1	Total O 1 1	0	0
61	2t	2	Total O 2 2	0	0
61	2v	2	Total O 2 2	0	0
61	2w	1	Total O 1 1	0	0
61	2x	6	Total O 6 6	0	0
61	2y	6	Total O 6 6	0	0

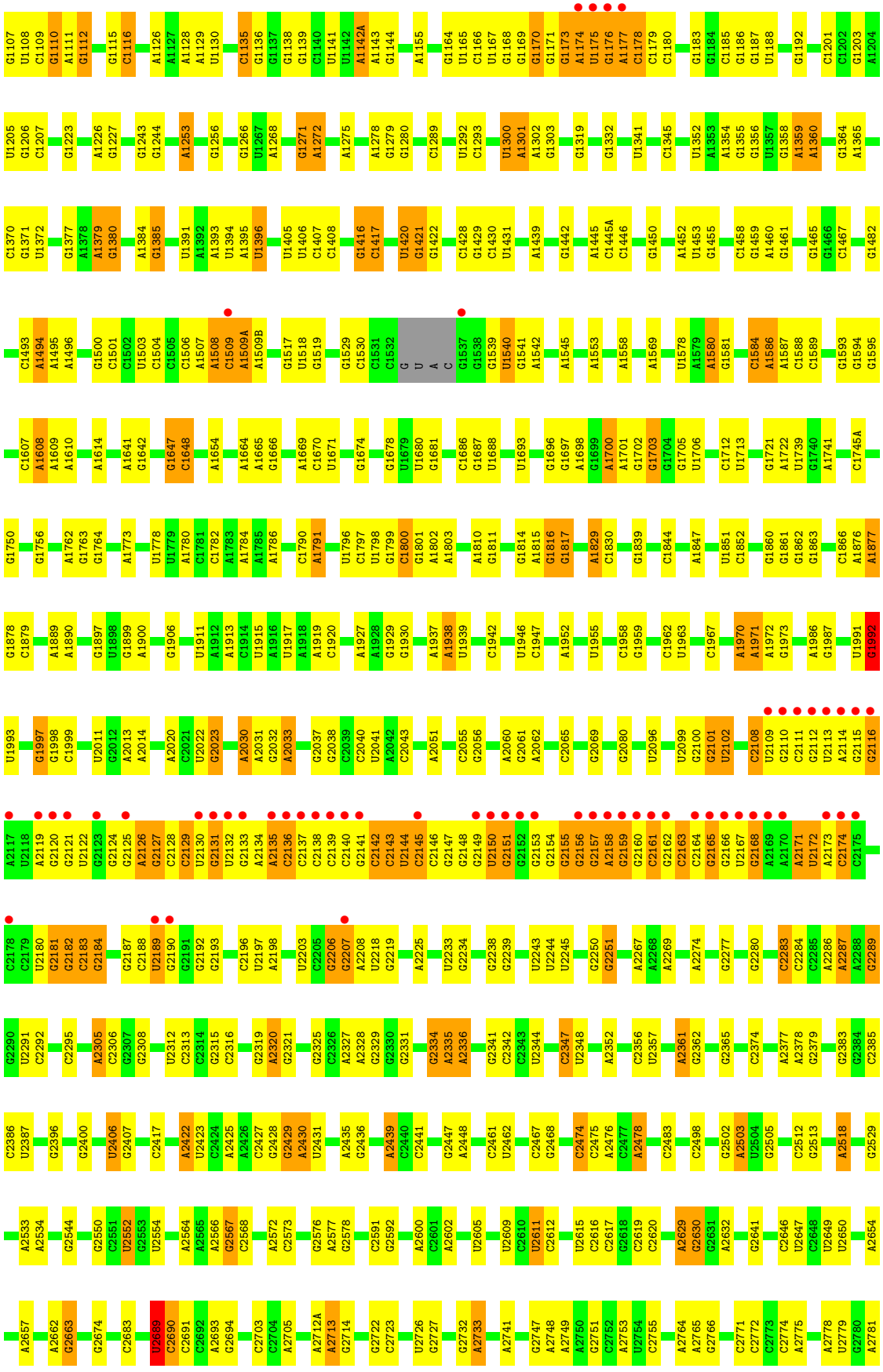
3 Residue-property plots (i)

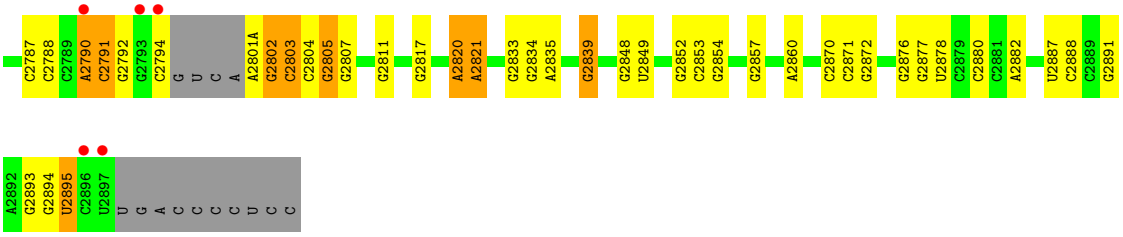
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

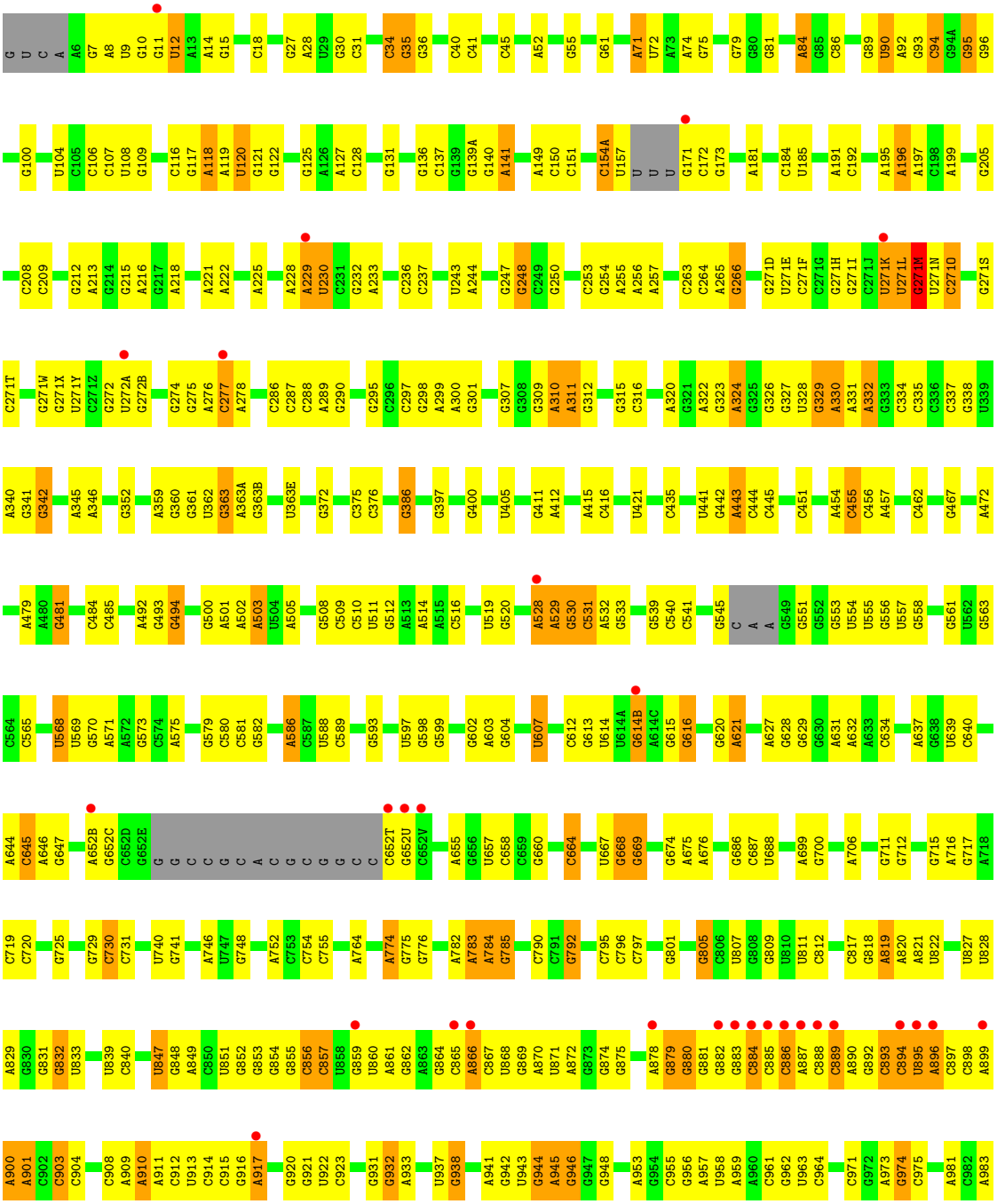


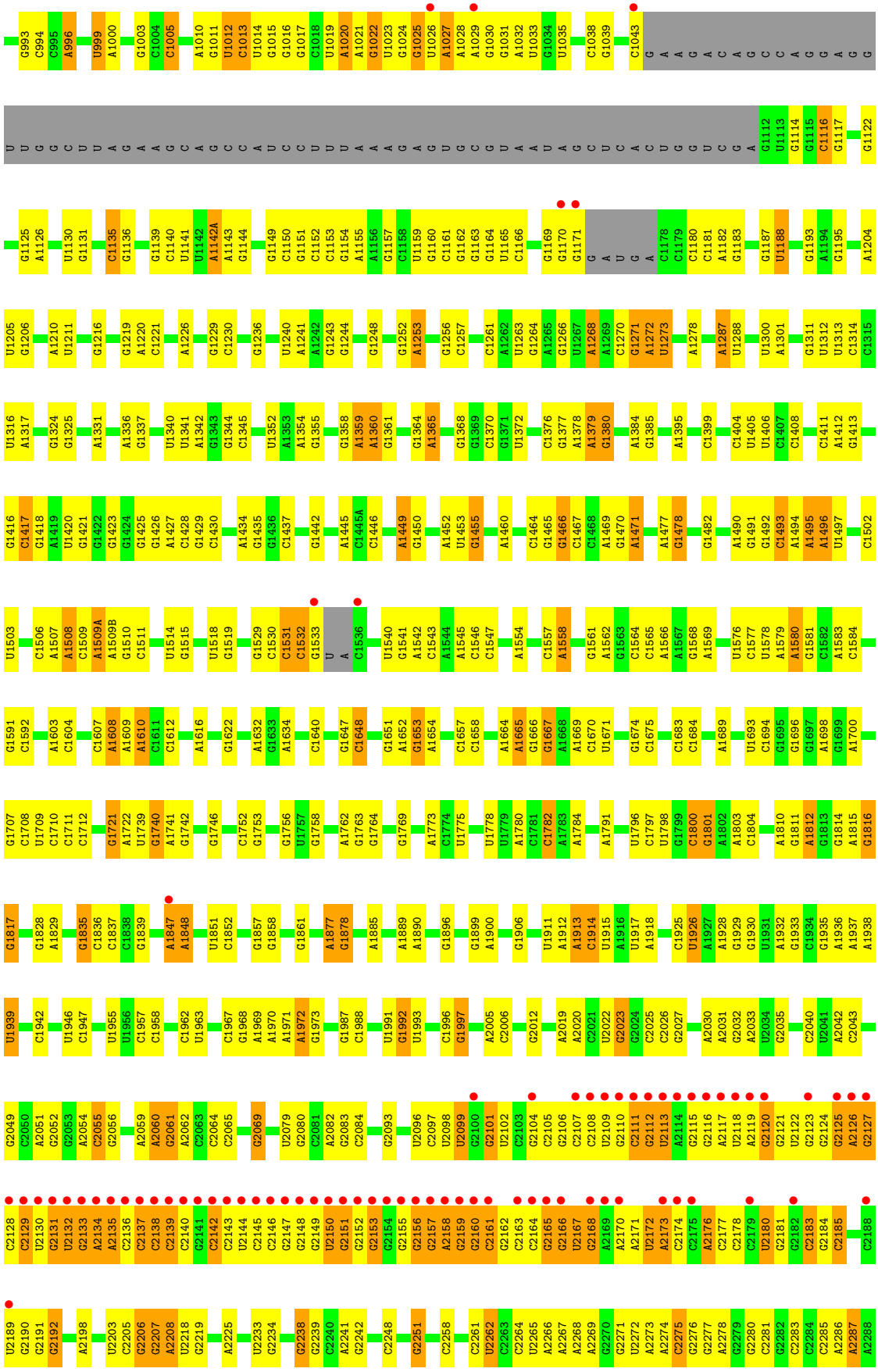


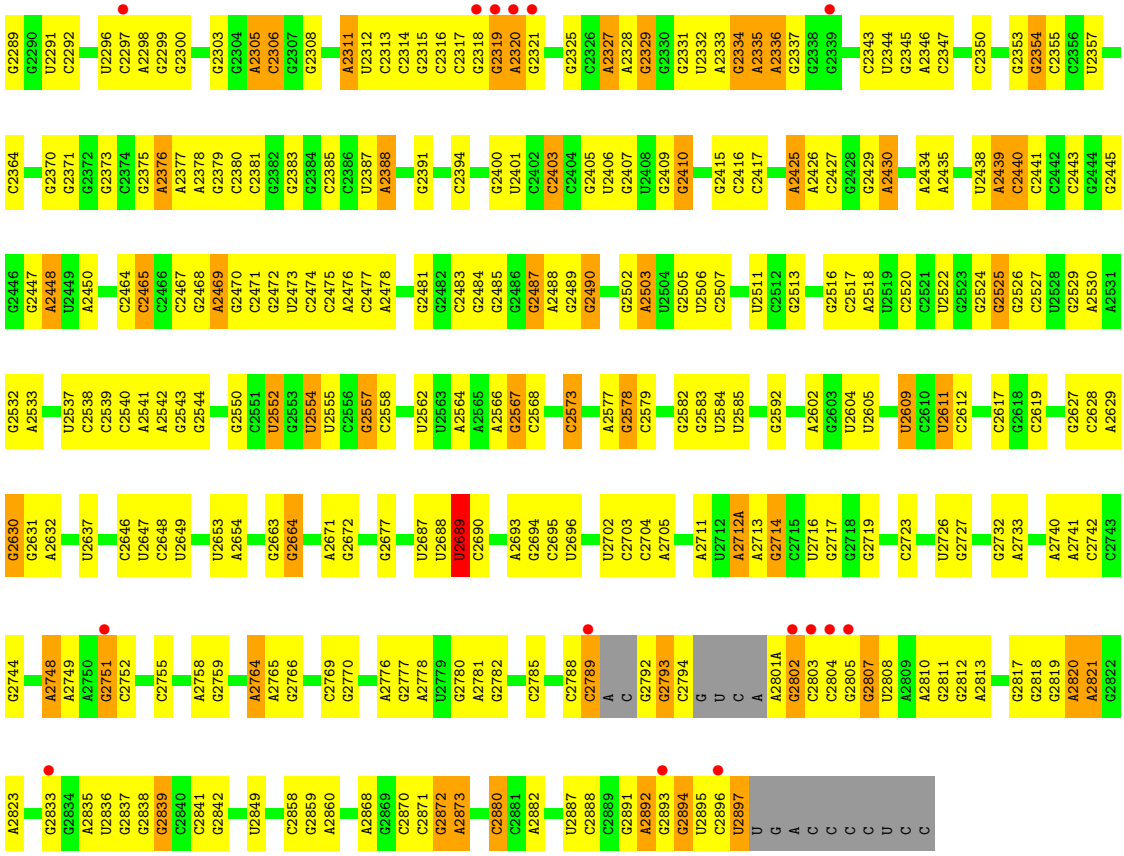


• Molecule 1: 23S Ribosomal RNA

Chain 2A:

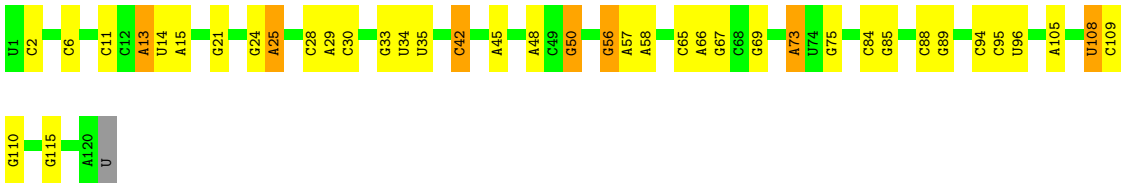



G993 C994 C995 A996 U999 A1000 G1003 C1004 C1005 A1010 G1011 U1012 C1013 U1014 G1015 G1016 G1017 C1018 U1019 A1020 A1021 G1022 U1023 G1024 G1025 U1026 A1027 A1028 A1029 G1030 G1031 A1032 U1033 G1034 U1035 C1038 G1039 C1043
G1112 U1113 G1114 G1115 C1116 G1117 G1122
G1125 A1126 U1130 G1131 C1135 G1136 G1139 C1140 U1141 U1142 A1142A A1143 G1144 G1149 C1150 G1151 C1152 C1153 G1154 A1155 A1156 G1157 C1158 U1159 G1160 C1161 G1162 G1163 G1164 U1165 C1166 G1169 G1170 G1171 C1178 C1179 C1180 C1181 A1182 G1183 G1187 U1188 G1193 A1194 G1195 A1204
U1205 G1206 A1210 U1211 G1216 G1219 A1220 C1221 A1226 G1229 C1230 G1236 U1240 A1241 A1242 G1243 G1244 G1248 G1252 A1253 G1256 C1257 C1261 A1262 U1263 G1264 A1265 G1266 U1267 A1268 A1269 C1270 G1271 A1272 U1273 A1278 A1287 U1288 U1300 A1301 G1311 U1312 U1313 C1314 C1315
U1316 A1317 G1324 G1325 A1331 A1336 G1337 U1340 U1341 A1342 G1343 G1344 C1345 U1352 A1353 A1354 G1355 G1358 A1359 A1360 G1361 G1364 A1365 G1368 G1369 C1370 G1371 U1372 C1376 G1377 A1378 A1379 G1380 A1384 G1385 A1395 C1399 C1404 U1405 U1406 C1407 C1408 C1411 A1412 G1413
G1416 C1417 G1418 A1419 U1420 C1421 G1422 G1423 C1424 G1425 G1426 A1427 C1428 G1429 C1430 A1434 G1435 G1436 C1437 G1442 A1445 C1445A C1446 A1449 G1450 A1452 U1453 G1455 A1460 C1464 G1465 G1466 C1467 C1468 A1469 G1470 A1471 A1477 G1478 G1482 A1490 G1491 G1492 C1493 A1494 A1496 A1496 U1497 C1502
U1503 C1506 A1507 A1508 C1509 A1509A A1509B G1510 C1511 U1514 G1515 U1518 G1519 G1529 C1530 C1531 C1532 G1533 U A C1536 U1540 G1541 A1542 C1543 A1544 A1545 C1546 C1547 A1554 C1557 A1558 G1561 A1562 G1563 C1564 C1565 A1566 A1567 G1568 A1569 U1576 C1577 U1578 A1579 A1580 G1581 C1582 A1583 C1584
G1591 C1592 A1603 C1604 C1607 A1608 A1609 A1610 C1611 C1612 A1616 G1622 A1632 G1633 A1634 C1640 G1647 C1648 G1651 A1652 G1653 A1654 C1657 C1658 A1664 A1665 G1666 G1667 A1668 A1669 C1670 U1671 G1674 C1675 C1683 C1684 A1689 U1693 C1694 G1695 G1696 G1697 A1698 G1699 A1700
G1707 C1708 U1709 C1710 C1711 C1712 G1721 A1722 U1739 G1740 A1741 G1742 G1746 C1752 G1753 G1756 U1757 G1758 A1762 G1763 G1764 G1769 A1773 C1774 U1775 U1778 U1779 A1780 C1781 C1782 A1783 A1784 A1791 U1796 C1797 U1798 G1799 C1800 G1801 A1802 A1803 C1804 A1810 G1811 A1812 G1813 G1814 A1815 G1816
G1817 G1828 A1829 G1835 C1836 C1837 C1838 G1839 A1847 A1848 U1851 C1852 G1857 G1858 G1861 A1877 G1878 A1885 A1889 A1890 G1896 G1899 A1900 G1906 U1911 A1912 A1913 C1914 U1915 A1916 U1917 A1918 C1925 U1926 A1927 A1928 G1929 G1930 U1931 A1932 G1933 C1934 G1935 A1936 A1937 A1938
U1939 C1942 U1946 C1947 U1955 U1956 C1957 C1958 C1962 U1963 C1967 G1968 A1969 A1970 A1971 A1972 G1973 G1987 C1988 U1991 G1992 U1993 C1996 G1997 A2005 C2006 G2012 A2019 A2020 C2021 U2022 G2023 G2024 C2025 C2026 G2027 A2030 A2031 G2032 A2033 U2034 G2035 C2040 U2041 A2042 C2043
G2049 C2050 A2051 G2052 G2053 A2054 C2055 G2056 A2059 A2060 G2061 A2062 C2063 C2064 C2065 G2069 U2079 G2080 C2081 A2082 G2083 C2084 G2093 U2096 C2097 U2098 U2099 G2100 G2101 U2102 C2103 G2104 C2105 G2106 C2107 C2108 U2109 G2110 C2111 G2112 U2113 A2114 G2115 G2116 A2117 U2118 A2119 G2120 G2121 U2122 G2123 G2124 G2125 A2126 G2127
C2128 C2129 U2130 G2131 U2132 C2133 A2134 A2135 C2136 C2137 C2138 C2139 C2140 G2141 C2142 C2143 U2144 C2145 C2146 G2147 G2148 G2149 U2150 G2151 G2152 G2153 G2154 G2155 G2156 G2157 A2158 G2159 G2160 C2161 G2162 C2163 C2164 G2165 G2166 U2167 G2168 A2169 A2170 A2171 U2172 A2173 C2174 C2175 A2176 C2177 C2178 C2179 U2180 G2181 G2182 C2183 G2184 C2185 C2188
U2189 G2190 G2191 G2192 A2198 U2203 C2205 G2206 G2207 A2208 U2218 G2219 A2225 U2233 G2234 G2238 G2239 C2240 A2241 G2242 C2248 G2251 C2258 C2261 U2262 C2263 C2264 U2265 A2266 A2267 A2268 A2269 G2270 G2271 U2272 A2273 A2274 C2275 G2276 G2277 A2278 G2279 G2280 C2281 G2282 C2283 C2284 C2285 A2286 A2287 A2288



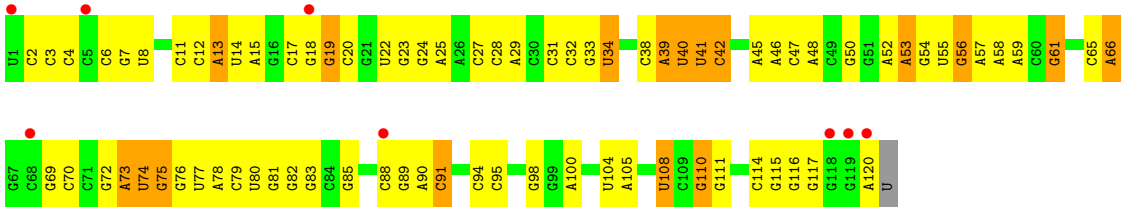
• Molecule 2: 5S Ribosomal RNA

Chain 1B:



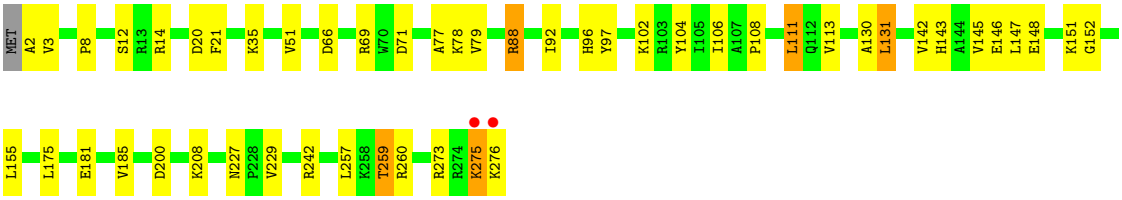
• Molecule 2: 5S Ribosomal RNA

Chain 2B:



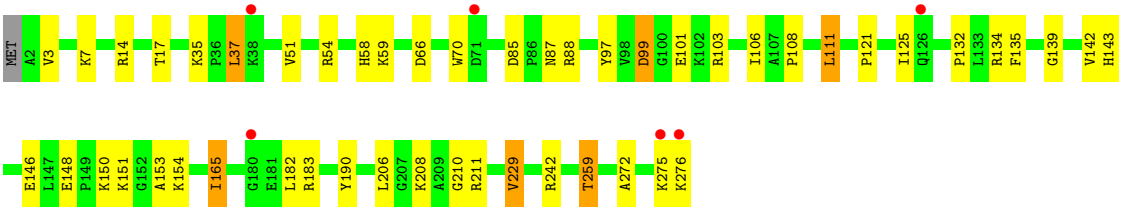
• Molecule 3: 50S ribosomal protein L2

Chain 1D:



• Molecule 3: 50S ribosomal protein L2

Chain 2D:

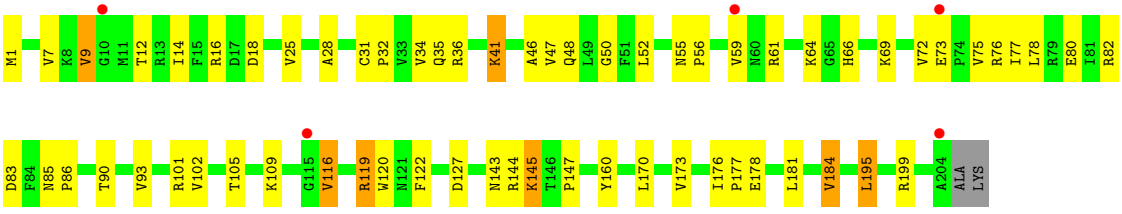


• Molecule 4: 50S ribosomal protein L3

Chain 1E:

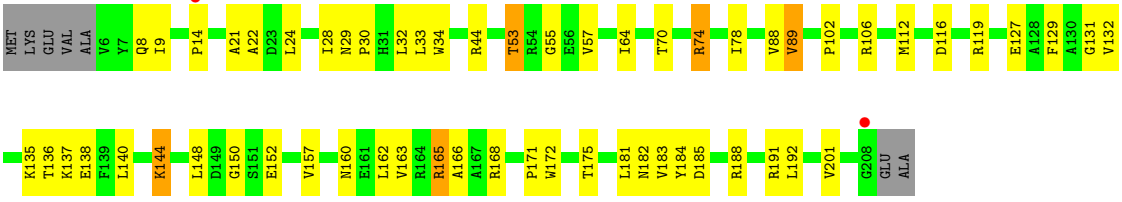
• Molecule 4: 50S ribosomal protein L3

Chain 2E:



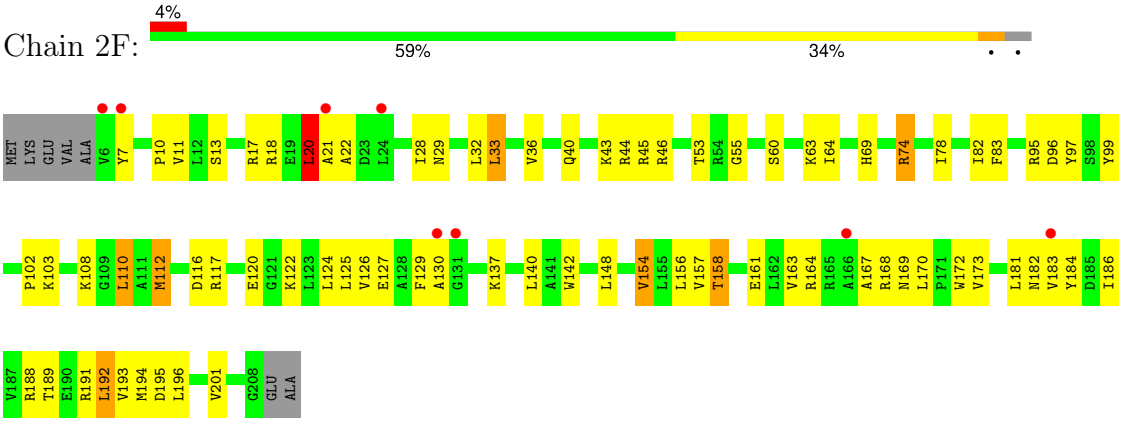
• Molecule 5: 50S ribosomal protein L4

Chain 1F:



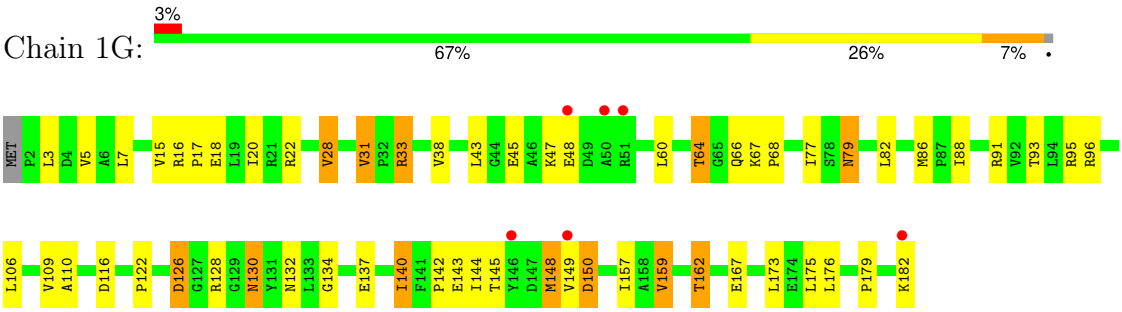
• Molecule 5: 50S ribosomal protein L4

Chain 2F:



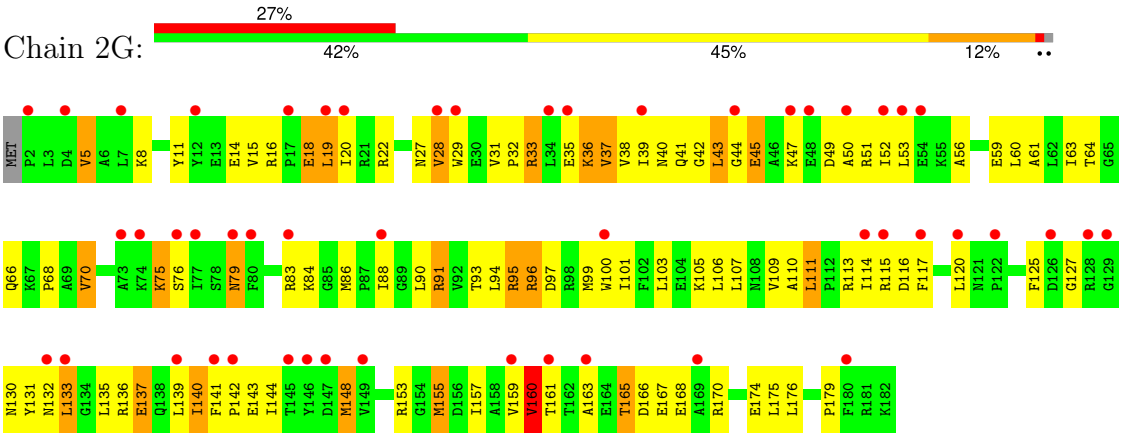
• Molecule 6: 50S ribosomal protein L5

Chain 1G:



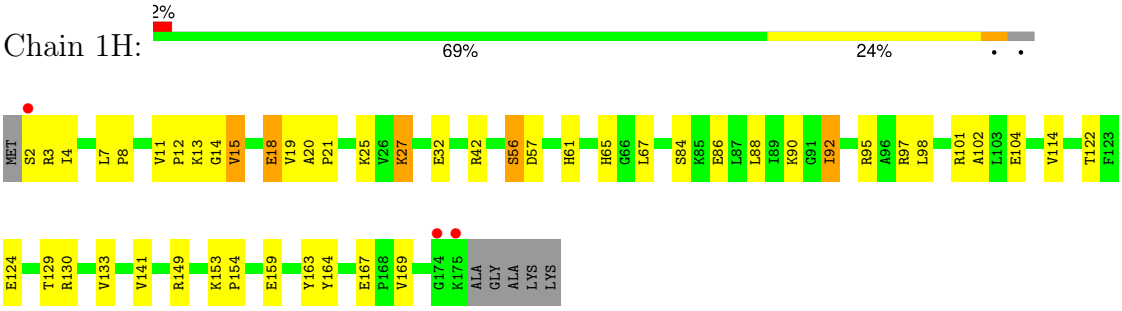
• Molecule 6: 50S ribosomal protein L5

Chain 2G:



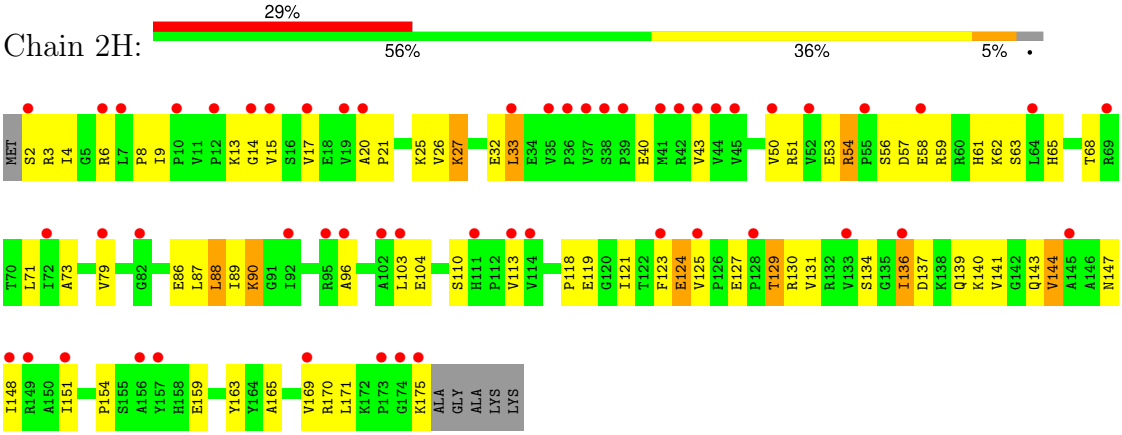
• Molecule 7: 50S ribosomal protein L6

Chain 1H:



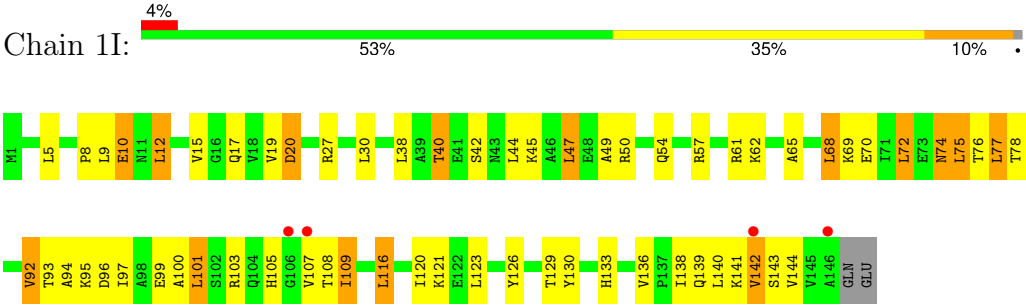
• Molecule 7: 50S ribosomal protein L6

Chain 2H:



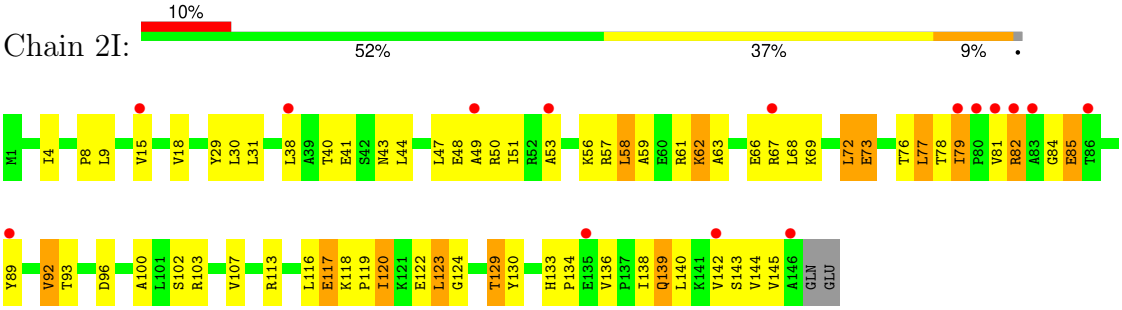
• Molecule 8: 50S ribosomal protein L9

Chain 1I:



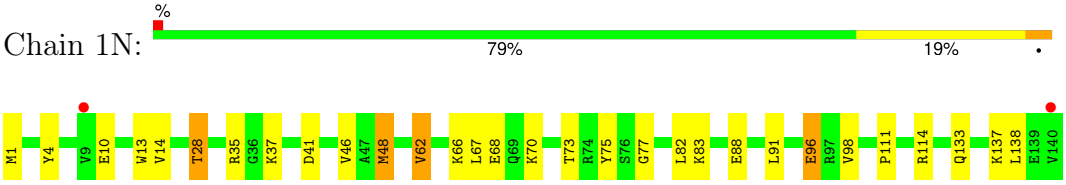
• Molecule 8: 50S ribosomal protein L9

Chain 2I:



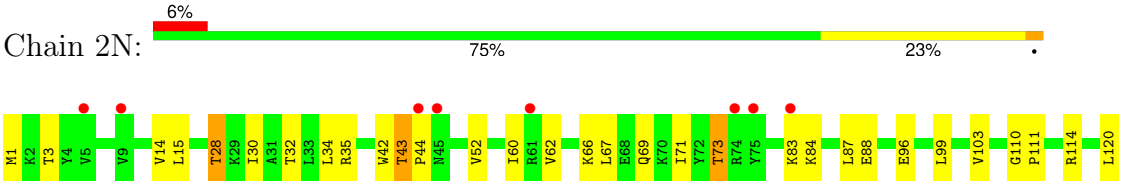
• Molecule 9: 50S ribosomal protein L13

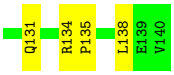
Chain 1N:



• Molecule 9: 50S ribosomal protein L13

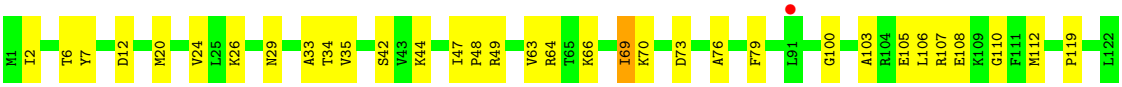
Chain 2N:





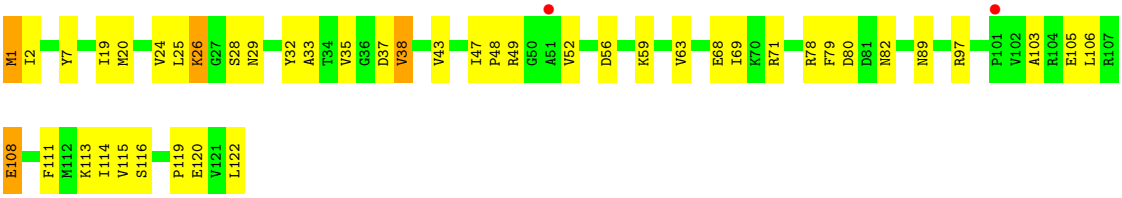
• Molecule 10: 50S ribosomal protein L14

Chain 1O:



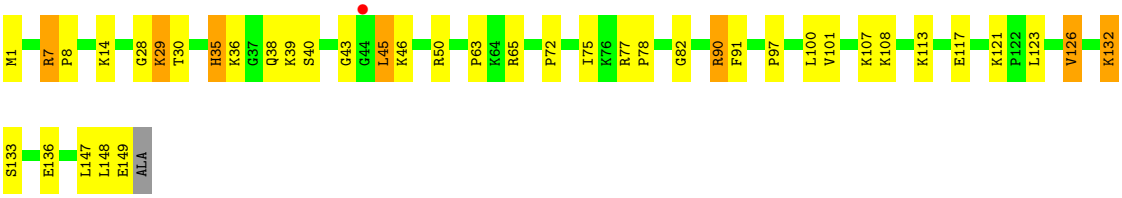
• Molecule 10: 50S ribosomal protein L14

Chain 2O:



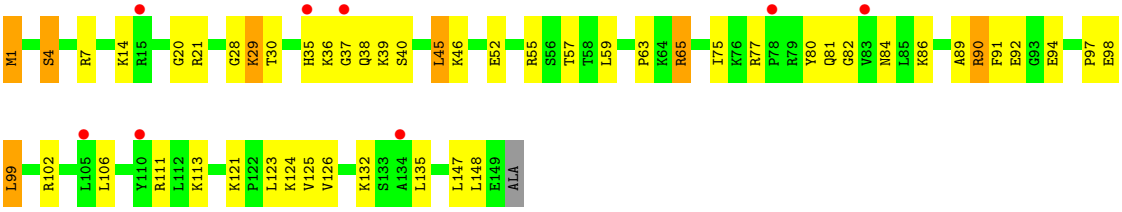
• Molecule 11: 50S ribosomal protein L15

Chain 1P:



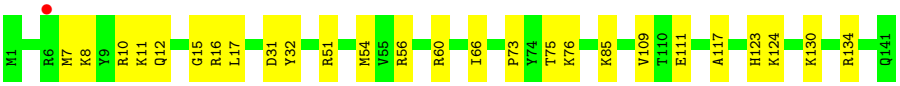
• Molecule 11: 50S ribosomal protein L15

Chain 2P:



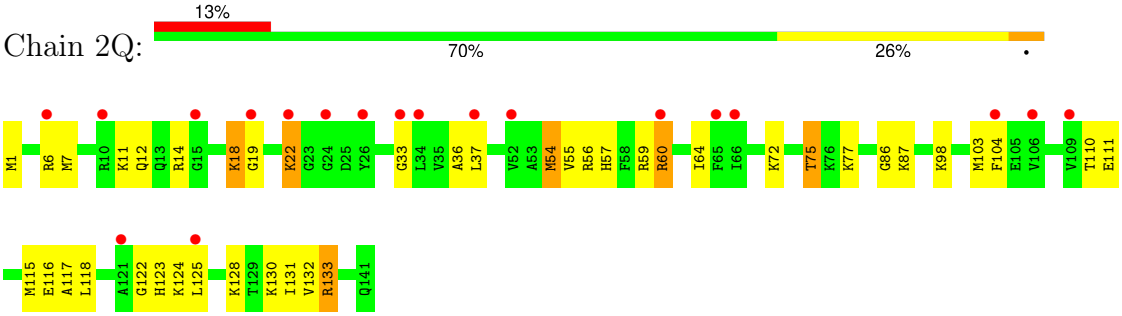
• Molecule 12: 50S ribosomal protein L16

Chain 1Q:



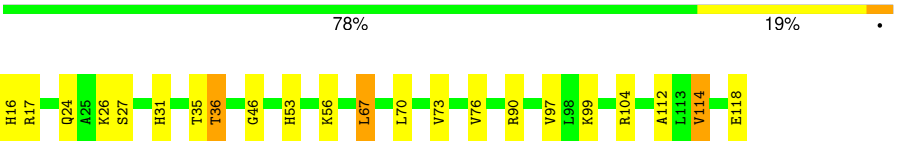
• Molecule 12: 50S ribosomal protein L16

Chain 2Q:



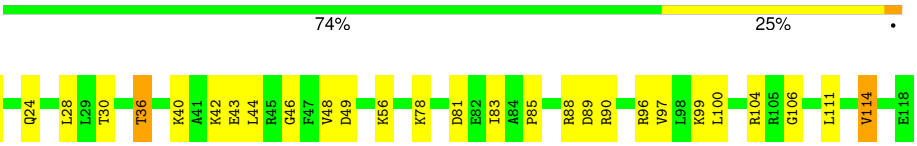
• Molecule 13: 50S ribosomal protein L17

Chain 1R:



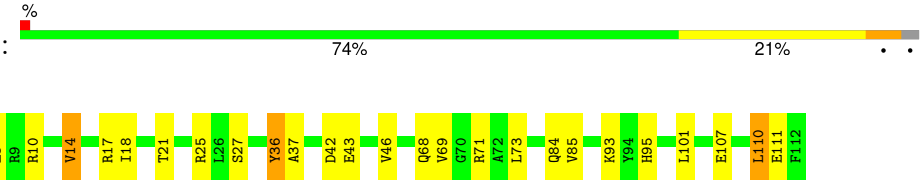
• Molecule 13: 50S ribosomal protein L17

Chain 2R:



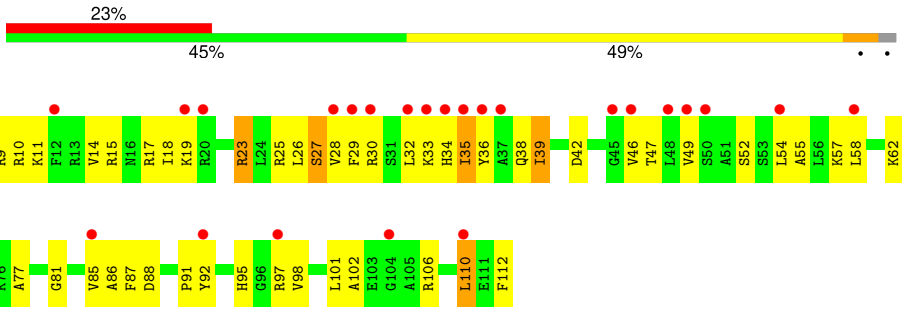
• Molecule 14: 50S ribosomal protein L18

Chain 1S:



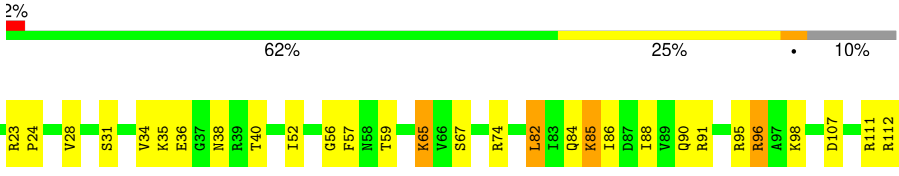
• Molecule 14: 50S ribosomal protein L18

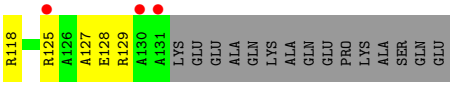
Chain 2S:



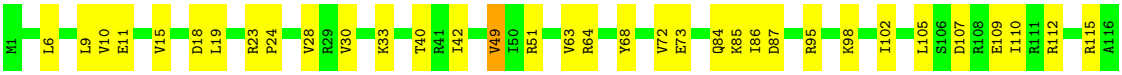
• Molecule 15: 50S ribosomal protein L19

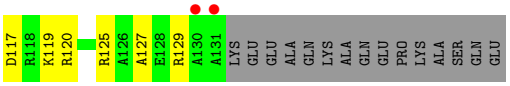
Chain 1T:



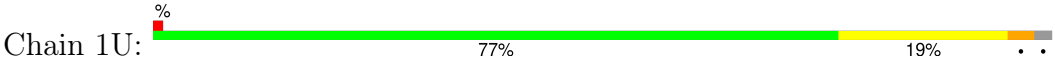


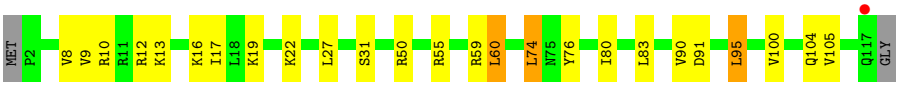
• Molecule 15: 50S ribosomal protein L19



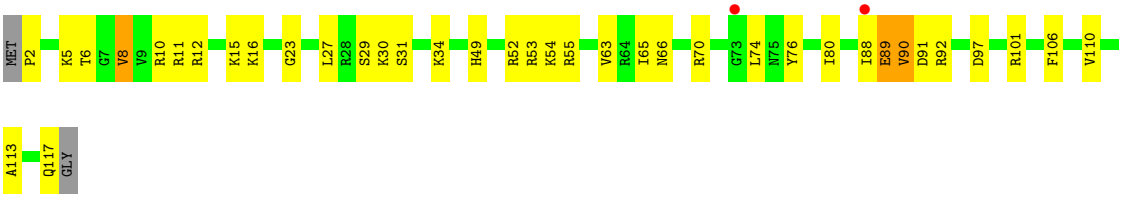


• Molecule 16: 50S ribosomal protein L20

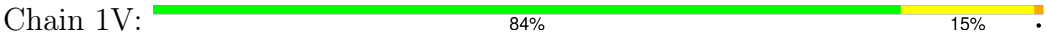




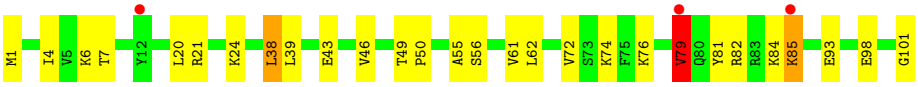
• Molecule 16: 50S ribosomal protein L20



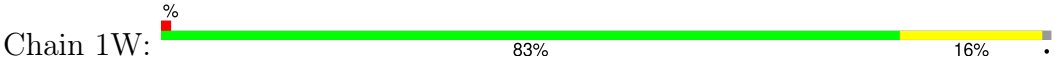
• Molecule 17: 50S ribosomal protein L21

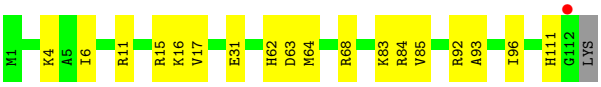


• Molecule 17: 50S ribosomal protein L21



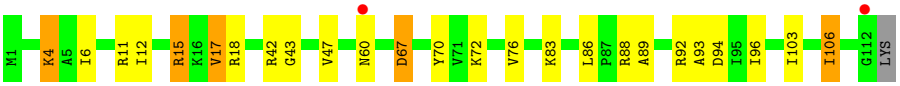
• Molecule 18: 50S ribosomal protein L22





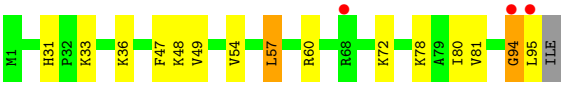
• Molecule 18: 50S ribosomal protein L22

Chain 2W:



• Molecule 19: 50S ribosomal protein L23

Chain 1X:

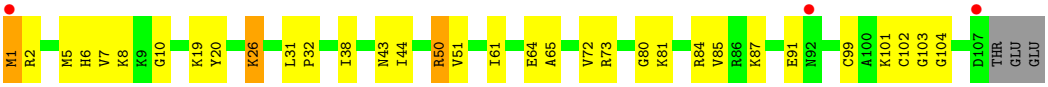


• Molecule 19: 50S ribosomal protein L23

Chain 2X:

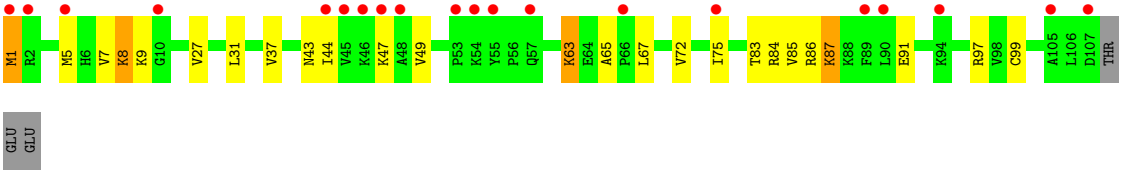
• Molecule 20: 50S ribosomal protein L24

Chain 1Y:



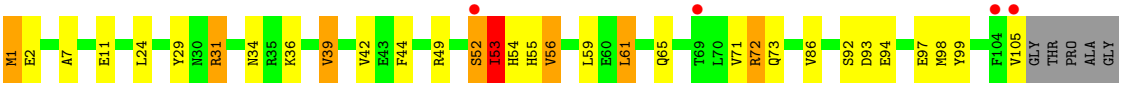
• Molecule 20: 50S ribosomal protein L24

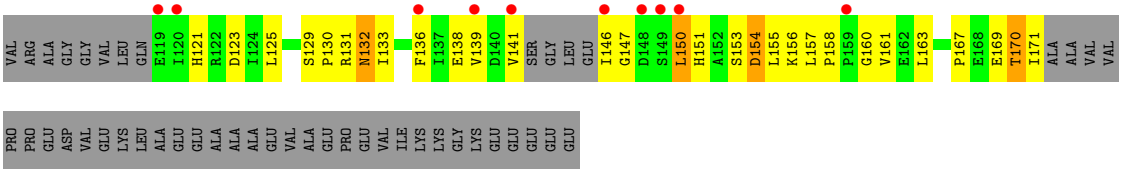
Chain 2Y:



• Molecule 21: 50S ribosomal protein L25

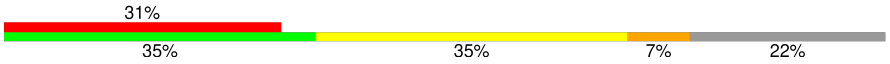
Chain 1Z:

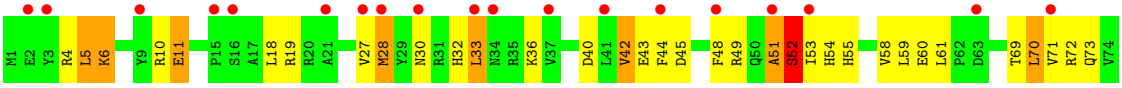


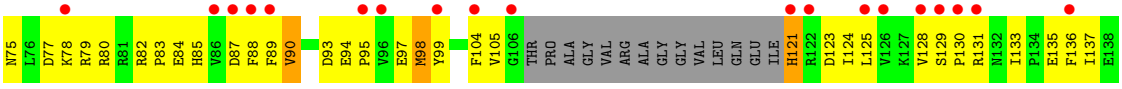


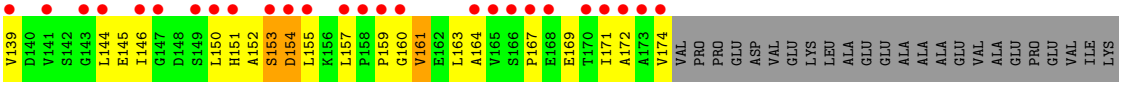
• Molecule 21: 50S ribosomal protein L25

Chain 2Z:



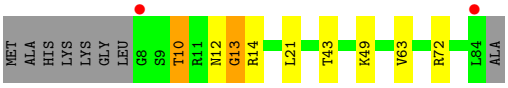






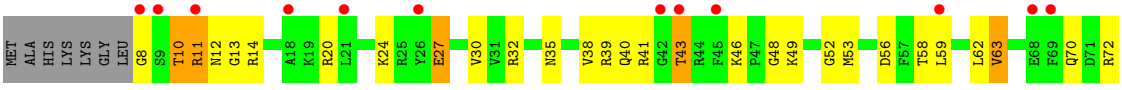
• Molecule 22: 50S ribosomal protein L27

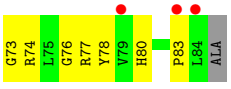
Chain 10:



• Molecule 22: 50S ribosomal protein L27

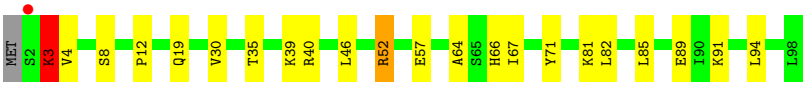
Chain 20:





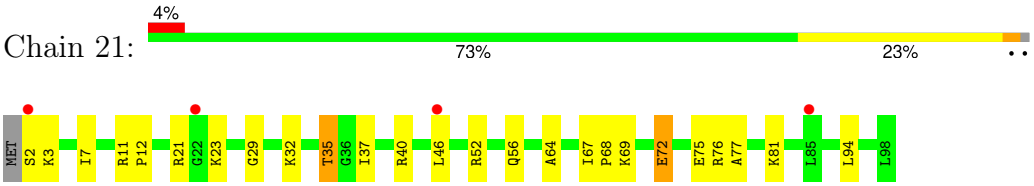
• Molecule 23: 50S ribosomal protein L28

Chain 11:



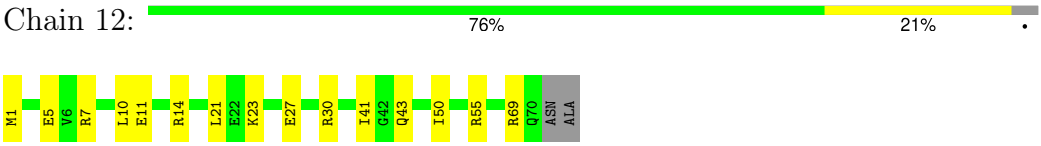
• Molecule 23: 50S ribosomal protein L28

Chain 21:



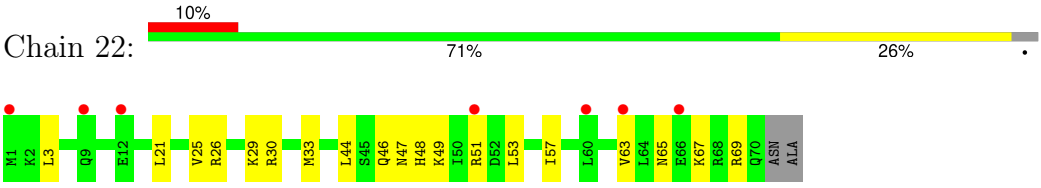
• Molecule 24: 50S ribosomal protein L29

Chain 12:



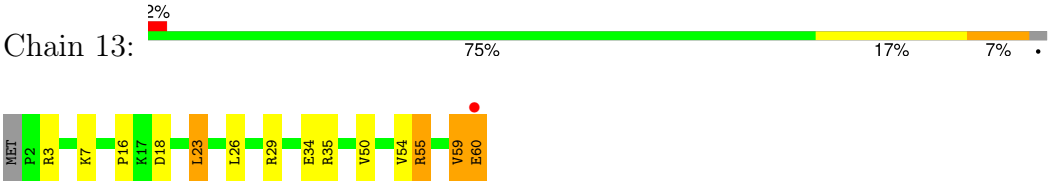
• Molecule 24: 50S ribosomal protein L29

Chain 22:



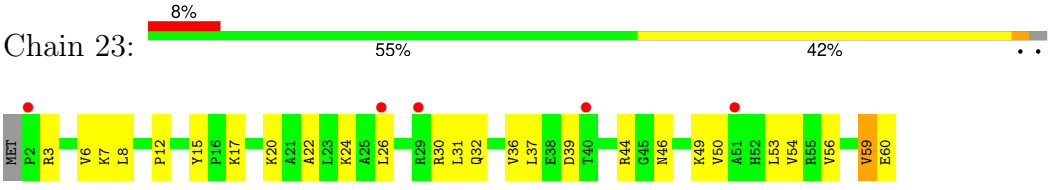
• Molecule 25: 50S ribosomal protein L30

Chain 13:



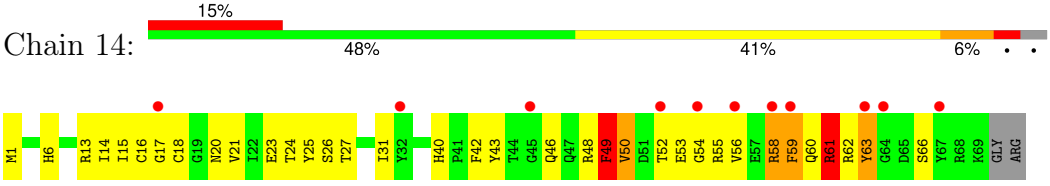
• Molecule 25: 50S ribosomal protein L30

Chain 23:



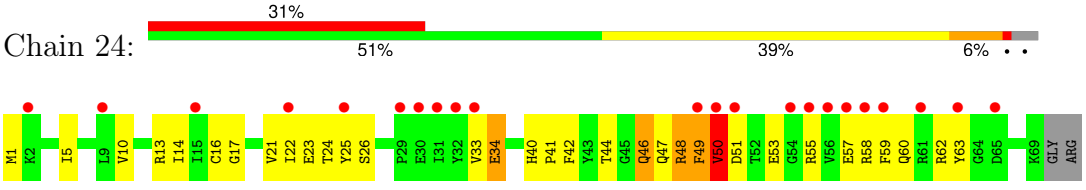
• Molecule 26: 50S ribosomal protein L31

Chain 14:



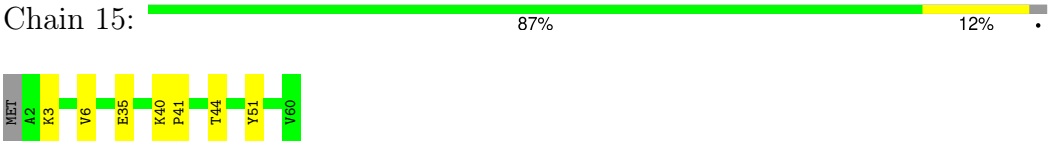
• Molecule 26: 50S ribosomal protein L31

Chain 24:



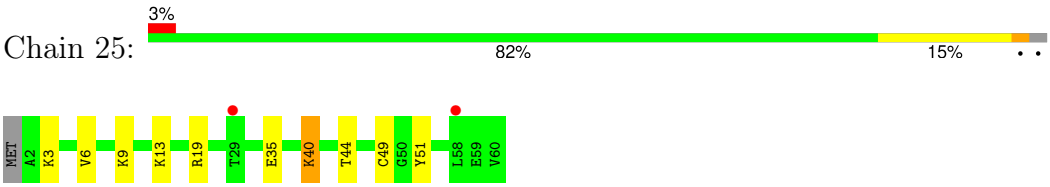
• Molecule 27: 50S ribosomal protein L32

Chain 15:



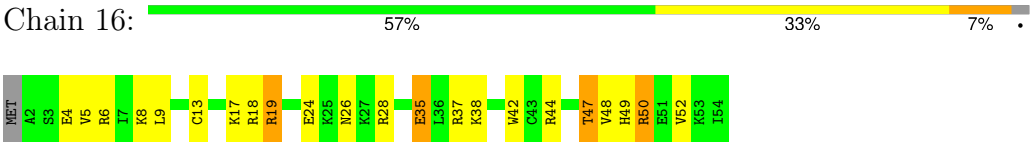
• Molecule 27: 50S ribosomal protein L32

Chain 25:



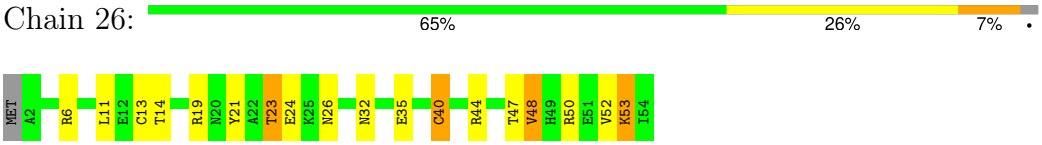
• Molecule 28: 50S ribosomal protein L33

Chain 16:



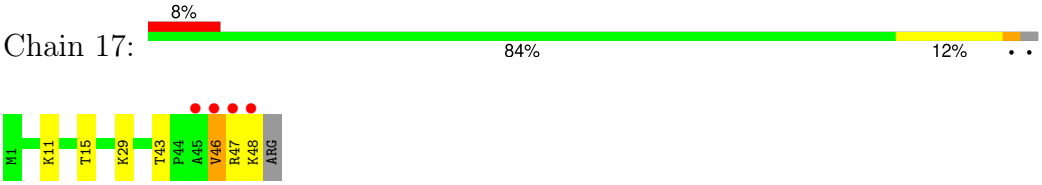
• Molecule 28: 50S ribosomal protein L33

Chain 26:



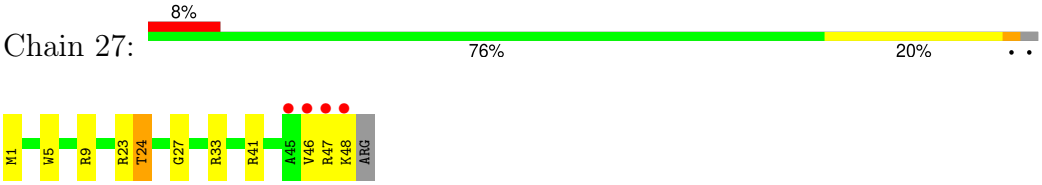
• Molecule 29: 50S ribosomal protein L34

Chain 17:



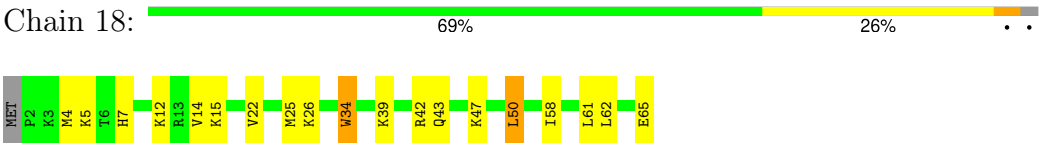
• Molecule 29: 50S ribosomal protein L34

Chain 27:



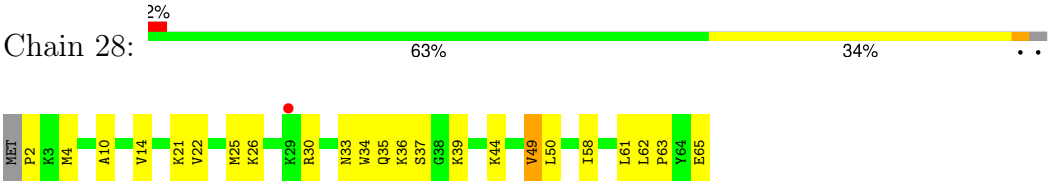
• Molecule 30: 50S ribosomal protein L35

Chain 18:



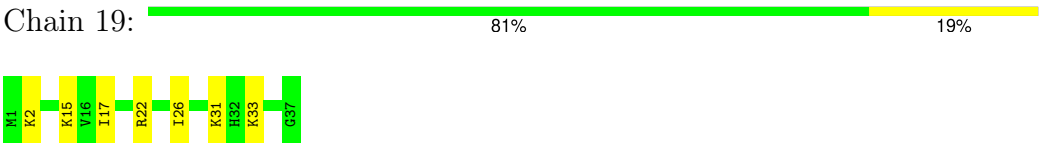
• Molecule 30: 50S ribosomal protein L35

Chain 28:



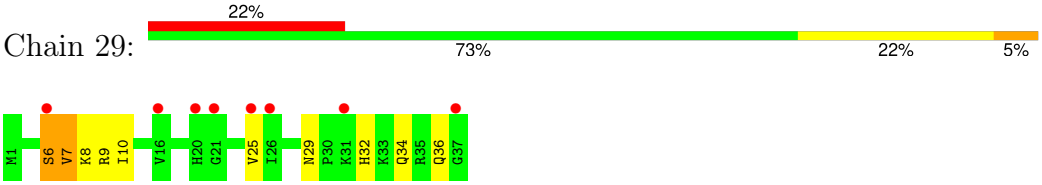
• Molecule 31: 50S ribosomal protein L36

Chain 19:



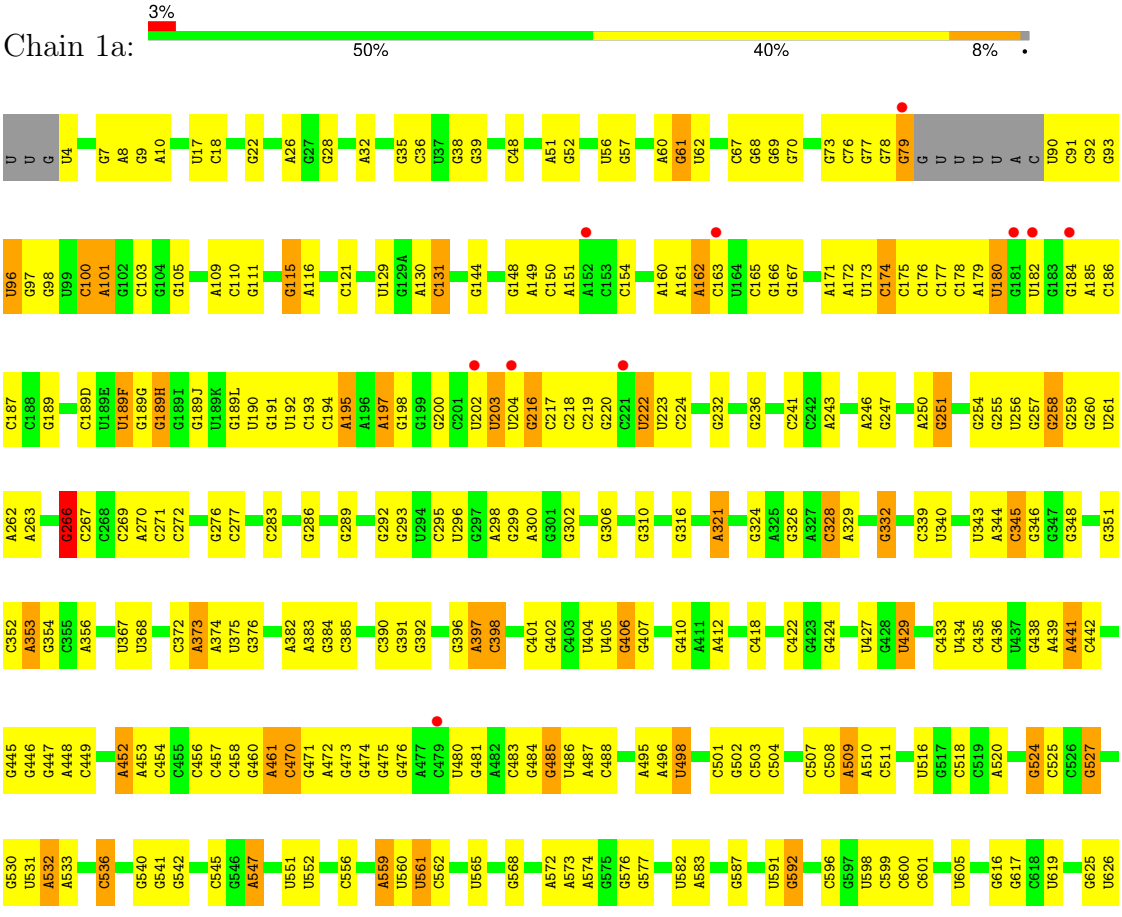
• Molecule 31: 50S ribosomal protein L36

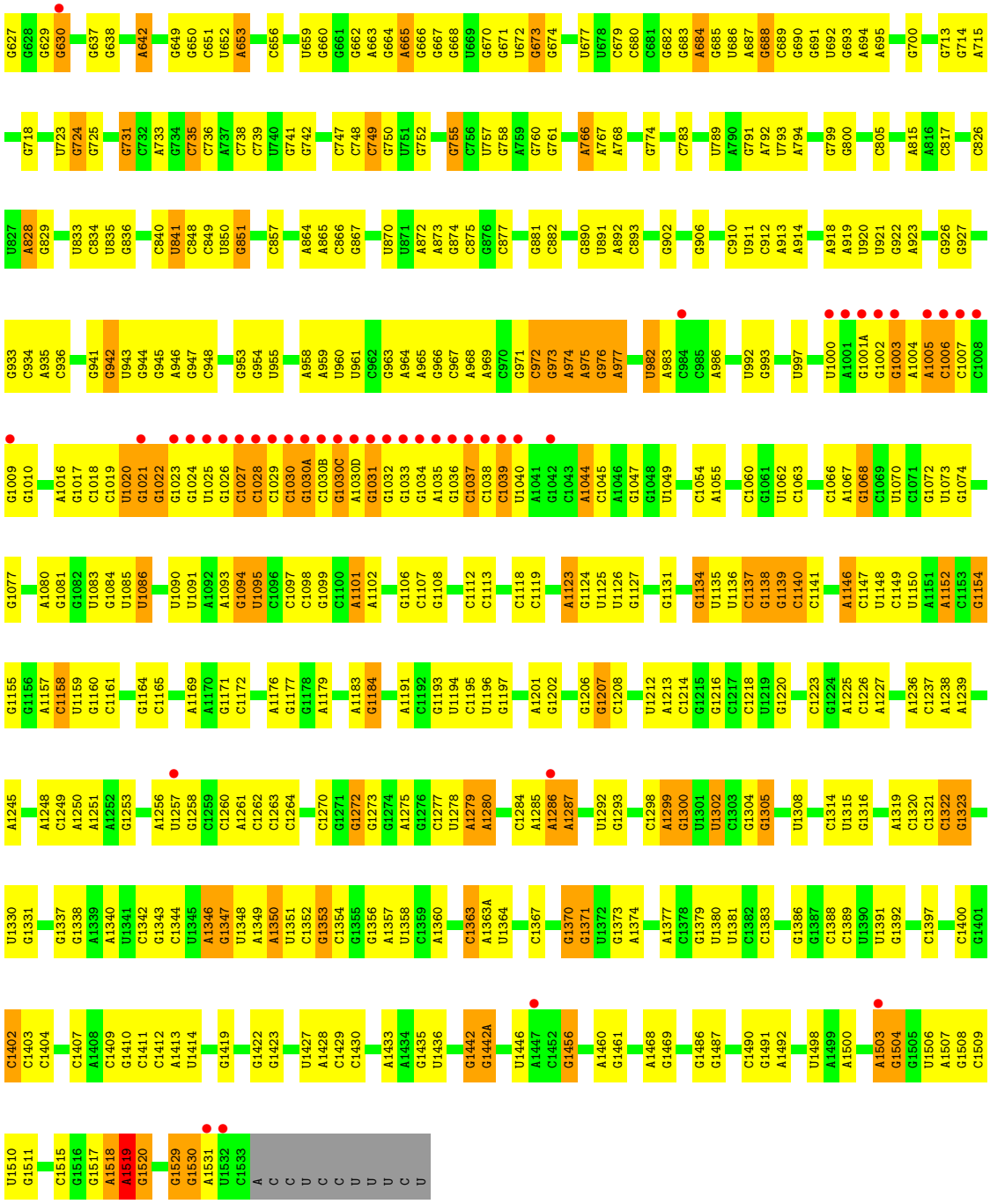
Chain 29:



• Molecule 32: 16S Ribosomal RNA

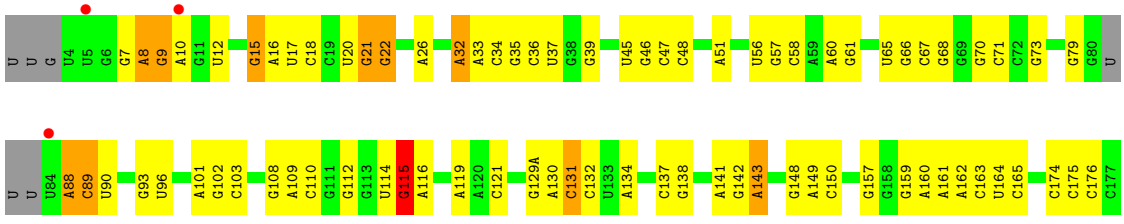
Chain 1a:

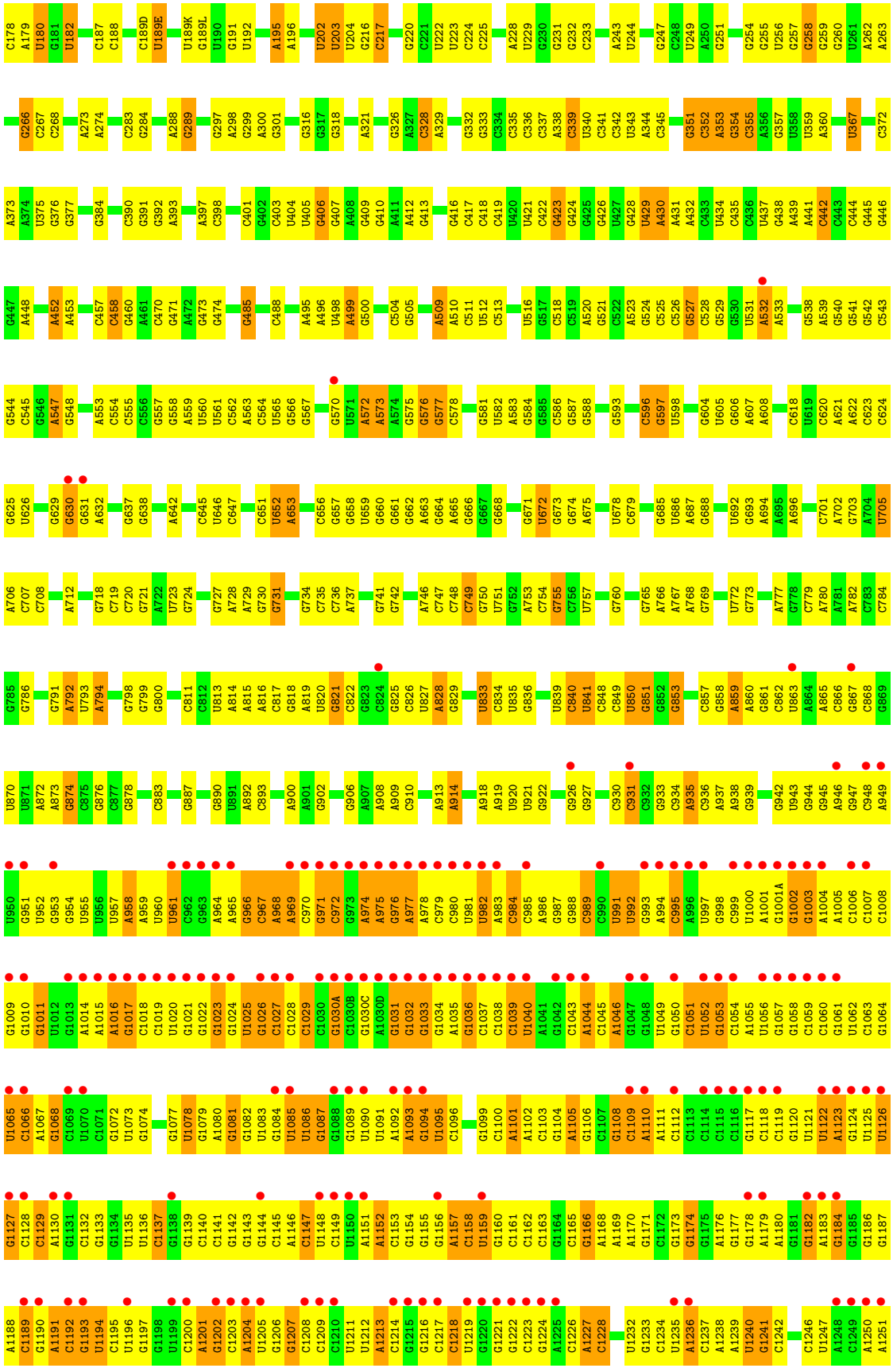




• Molecule 32: 16S Ribosomal RNA

Chain 2a:

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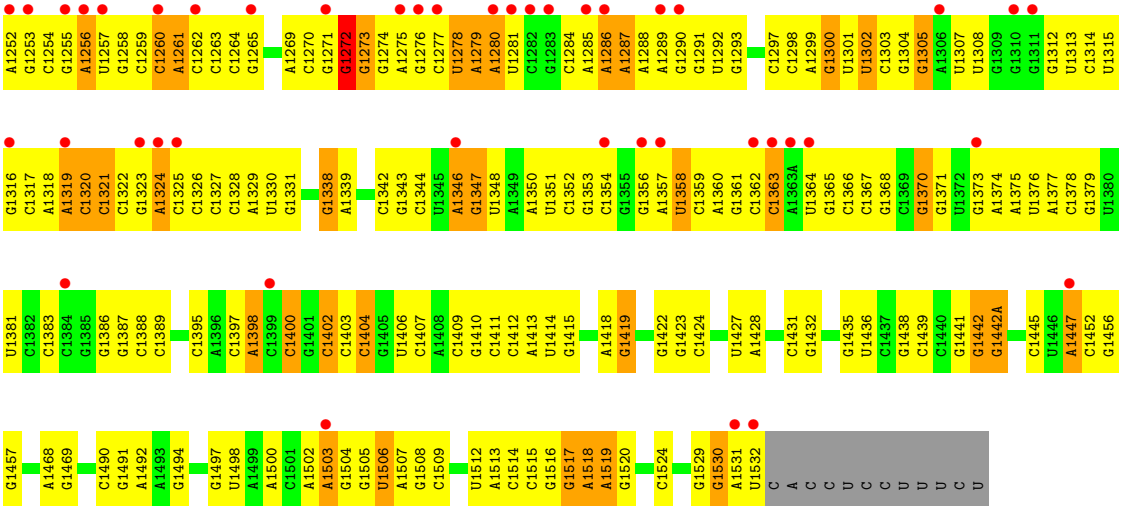
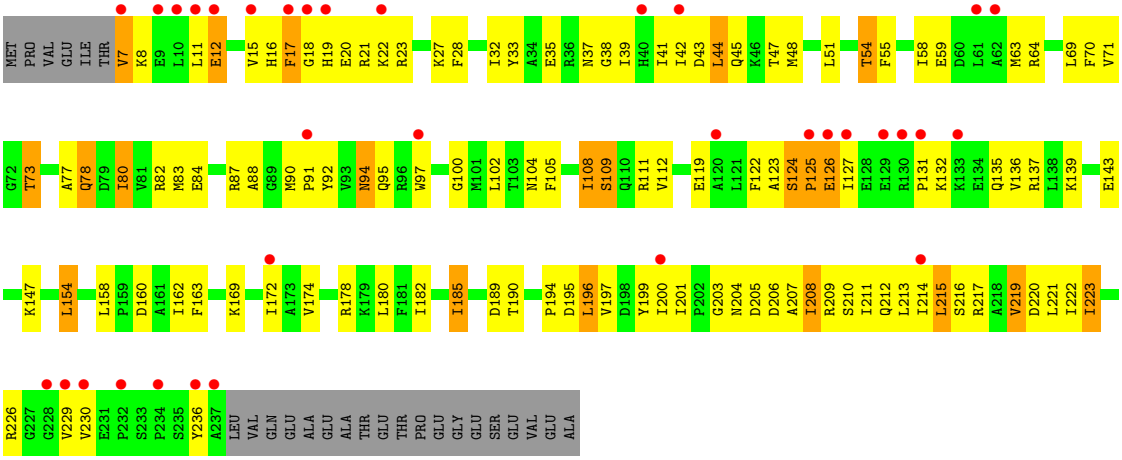
G266 C267 C268 A273 A274 C283 G284 A288 G289 G297 A298 G299 A300 G301 G316 G317 G318 A321 G326 A327 C328 A329 G332 G333 C334 C335 C336 C337 A338 C339 U340 C341 C342 U343 A344 C345 G351 C352 A353 G354 C355 A356 G357 U358 U359 A360 U367 C372
A373 A374 U375 G376 G377 G384 C390 G391 G392 A393 A397 C398 C401 G402 C403 U404 U405 G406 G407 A408 G409 G410 A411 A412 G413 G416 C417 C418 C419 U420 U421 C422 G423 G424 G425 G426 U427 G428 U429 A430 A431 A432 C433 U434 C435 C436 U437 G438 A439 A441 C442 C443 C444 G445 G446
G447 A448 A452 A453 C457 C458 G460 A461 C470 G471 A472 G473 G474 G485 C488 A495 A496 U498 A499 G500 C504 G505 A509 A510 C511 U512 C513 U516 G517 C518 C519 A520 G521 C522 A523 G524 C525 C526 G527 C528 G529 G530 U531 A532 A533 G538 A539 G540 G541 G542 C543
G544 C545 G546 A547 G548 A553 C554 C555 C556 G557 G558 A559 U560 U561 C562 A563 C564 U565 G566 G567 G570 U571 A572 A573 A574 G575 G576 G577 C578 G581 U582 A583 G584 G585 C586 G587 G588 G593 C596 G597 U598 G604 U605 G606 A607 A608 C618 U619 C620 A621 A622 C623 C624
G625 U626 G629 G630 G631 A632 G637 G638 A642 C645 U646 C647 C651 U652 A653 C656 G657 G658 U659 G660 G661 G662 A663 G664 A665 G666 G667 G668 G671 U672 G673 G674 A675 U678 C679 G685 U686 A687 G688 U692 G693 A694 A695 A696 C701 A702 G703 A704 U705
A706 C707 C708 A712 G718 C719 C720 G721 A722 U723 G724 G727 A728 A729 G730 G731 G734 C735 C736 A737 G741 G742 A746 C747 C748 C749 G750 U751 G752 A753 C754 G755 C756 U757 G760 G765 A766 A767 A768 G769 U772 G773 A777 G778 C779 A780 A781 A782 C783 A704 C784
G785 G786 G791 A792 U793 A794 G798 G799 G800 C811 C812 U813 A814 A815 A816 C817 G818 A819 U820 G821 C822 G823 C824 G825 C826 U827 A828 G829 U833 C834 U835 G836 U839 C840 U841 C848 C849 U850 G851 G852 G853 C857 G858 A859 A860 G861 C862 U863 A864 A865 C866 G867 C868 G869
U870 U871 A872 A873 G874 C875 G876 C877 G878 C883 G887 G890 U891 A892 C893 A900 A901 G902 G906 A907 A908 A909 C910 A913 A914 A918 A919 U920 U921 G922 G926 G927 C930 C931 C932 G933 C934 A935 C936 A937 A938 G939 G942 U943 G944 G945 A946 G947 C948 A949
U950 G951 U952 G953 G954 U955 U956 U957 A958 A959 U960 U961 C962 G963 A964 A965 G966 C967 A968 A969 C970 G971 C972 G973 A974 A975 G976 A977 A978 C979 C980 U981 U982 A983 C984 C985 A986 G987 G988 C989 C990 U991 U992 G993 A994 C995 A996 U997 G998 C999 U1000 A1001 G1001A G1002 G1003 A1004 A1005 C1006 C1007 C1008
G1009 G1010 G1011 U1012 G1013 A1014 A1015 A1016 G1017 C1018 C1019 U1020 G1021 G1022 G1023 G1024 U1025 G1026 C1027 C1028 C1029 C1030 G1030A G1030B G1030C A1030D G1031 G1032 G1033 G1034 A1035 G1036 C1037 C1038 C1039 U1040 A1041 G1042 C1043 A1044 C1045 A1046 G1047 G1048 U1049 G1050 C1051 U1052 G1053 C1054 A1055 U1056 G1057 G1058 C1059 C1060 G1061 U1062 C1063 G1064
U1065 C1066 A1067 G1068 C1069 U1070 C1071 G1072 U1073 G1074 G1077 U1078 G1079 A1080 G1081 G1082 U1083 G1084 U1085 U1086 G1087 G1088 G1089 U1090 U1091 A1092 A1093 G1094 U1095 C1096 G1099 C1100 A1101 A1102 C1103 G1104 A1105 G1106 C1107 G1108 C1109 A1110 A1111 C1112 C1113 C1114 C1115 C1116 G1117 C1118 G1119 G1120 U1121 U1122 A1123 G1124 U1125 U1126
G1127 C1128 C1129 A1130 G1131 C1132 G1133 G1134 U1135 U1136 C1137 G1138 G1139 C1140 C1141 G1142 G1143 G1144 C1145 A1146 C1147 U1148 C1149 U1150 A1151 A1152 C1153 G1154 G1155 G1156 A1157 C1158 U1159 G1160 C1161 C1162 C1163 G1164 C1165 G1166 A1168 A1169 A1170 G1171 C1172 G1173 G1174 G1175 A1176 G1177 G1178 A1179 A1180 G1181 G1182 A1183 G1184 G1185 G1186 G1187
A1188 C1189 G1190 A1191 C1192 G1193 U1194 C1195 U1196 G1197 G1198 U1199 C1200 A1201 G1202 C1203 A1204 U1205 G1206 G1207 C1208 C1209 C1210 U1211 U1212 A1213 C1214 G1215 G1216 C1217 C1218 U1219 G1220 G1221 G1222 C1223 G1224 A1225 C1226 A1227 C1228 U1232 G1233 C1234 U1235 A1236 C1237 A1238 A1239 U1240 G1241 C1242 C1246 U1247 A1248 C1249 A1250 A1251



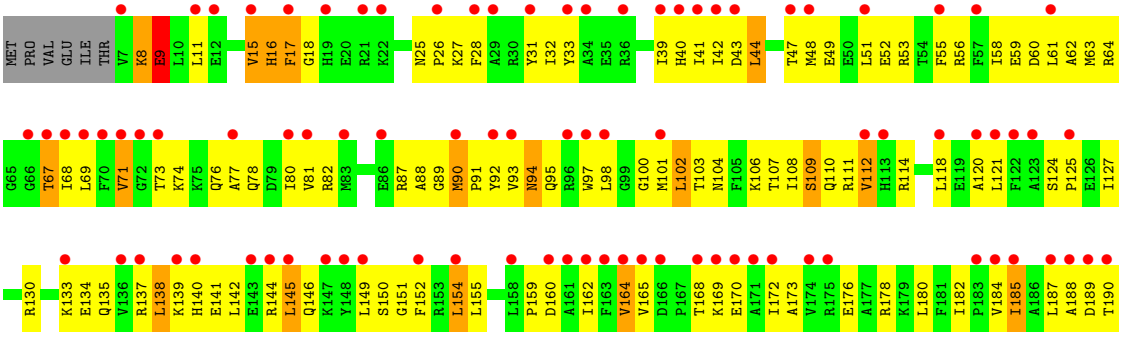
• Molecule 33: 30S ribosomal protein S2

Chain 1b:



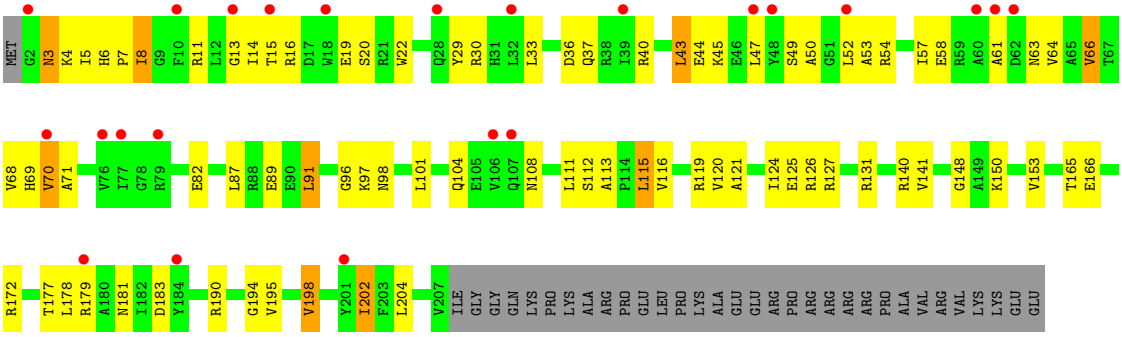
• Molecule 33: 30S ribosomal protein S2

Chain 2b:



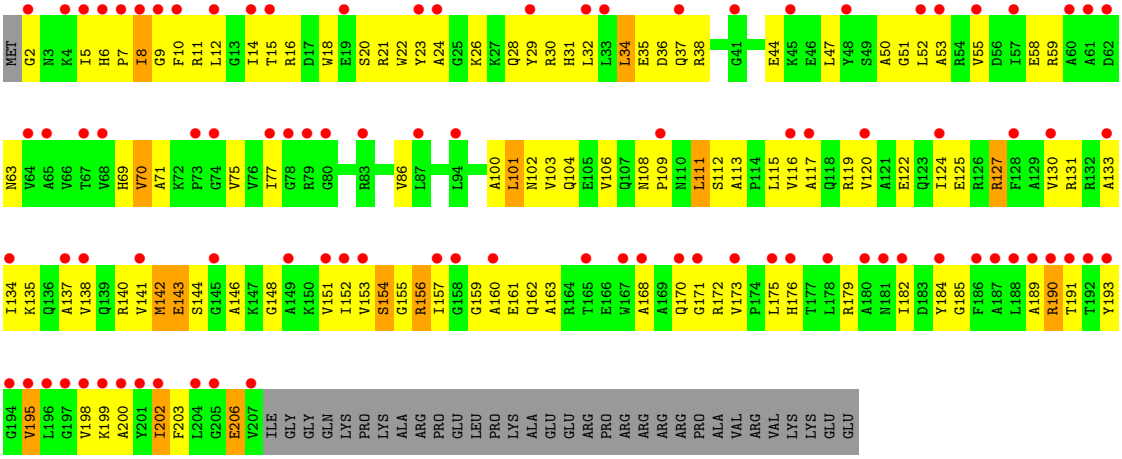
• Molecule 34: 30S ribosomal protein S3

Chain 1c:



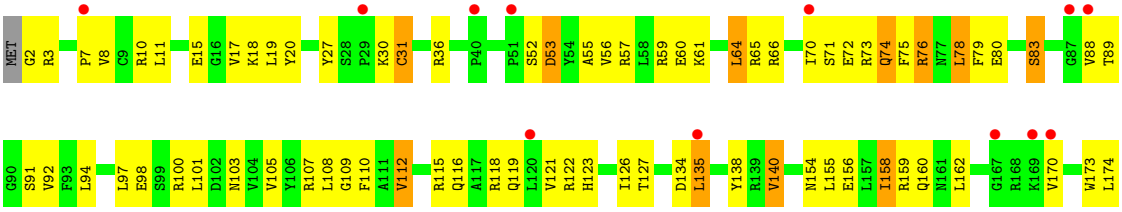
• Molecule 34: 30S ribosomal protein S3

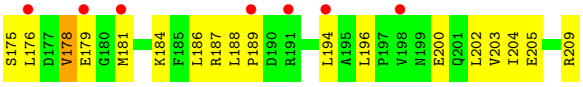
Chain 2c:



• Molecule 35: 30S ribosomal protein S4

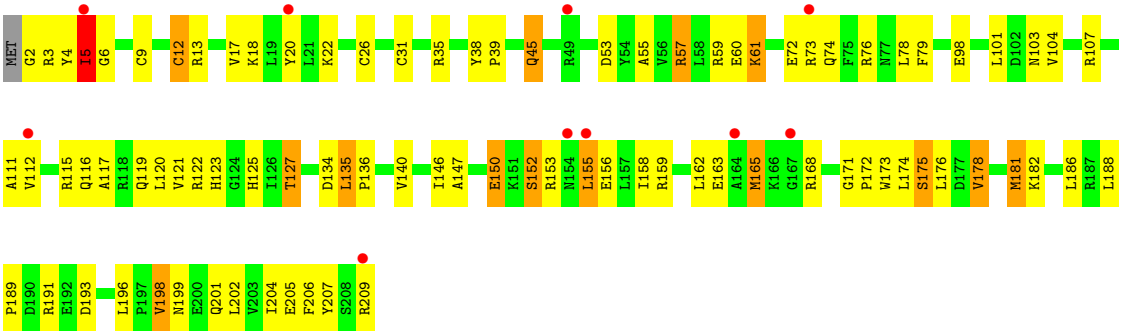
Chain 1d:





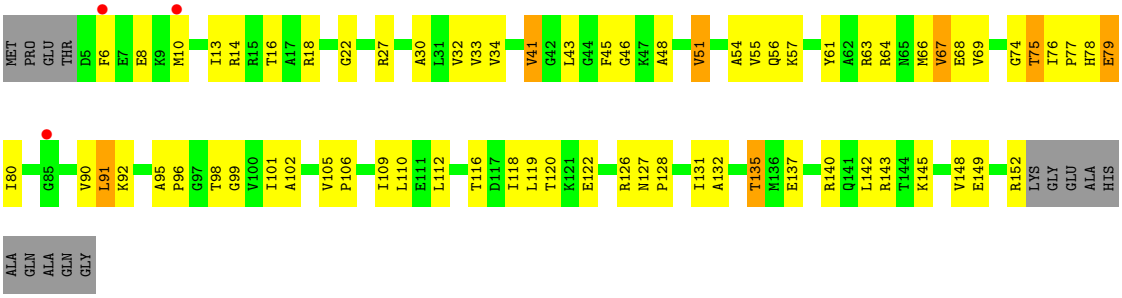
• Molecule 35: 30S ribosomal protein S4

Chain 2d:



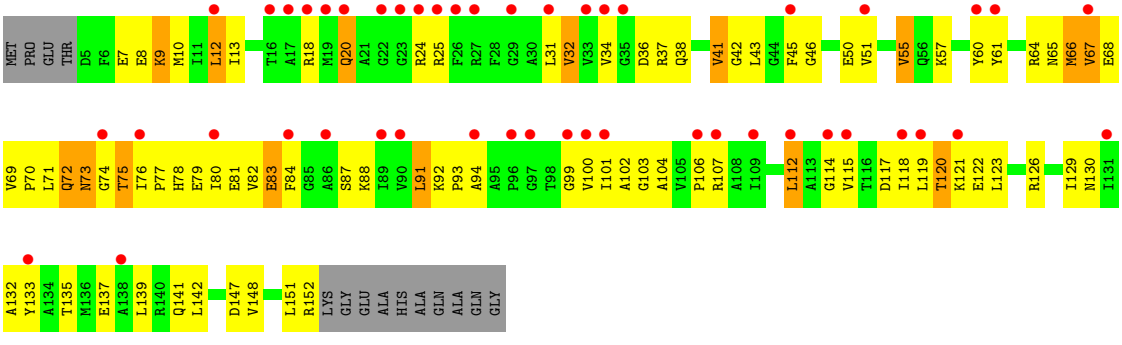
• Molecule 36: 30S ribosomal protein S5

Chain 1e:



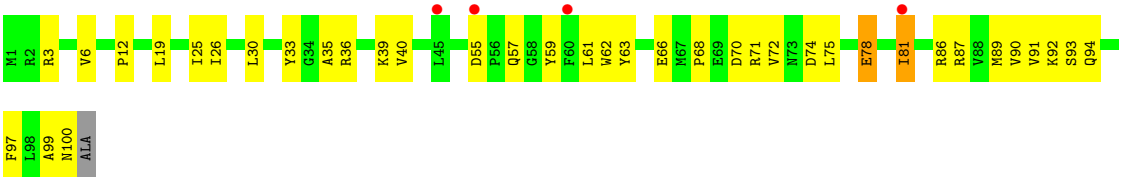
• Molecule 36: 30S ribosomal protein S5

Chain 2e:



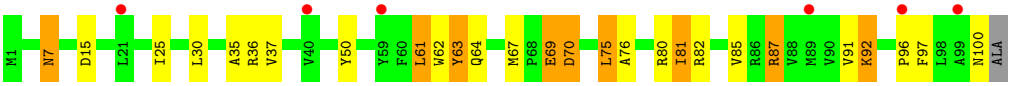
• Molecule 37: 30S ribosomal protein S6

Chain 1f:



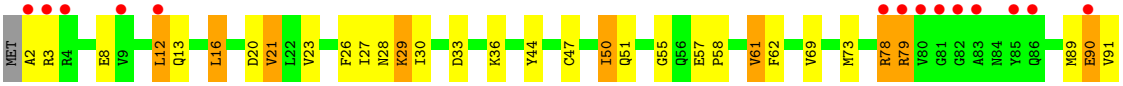
• Molecule 37: 30S ribosomal protein S6

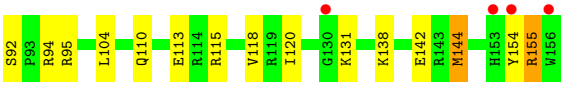
Chain 2f:



• Molecule 38: 30S ribosomal protein S7

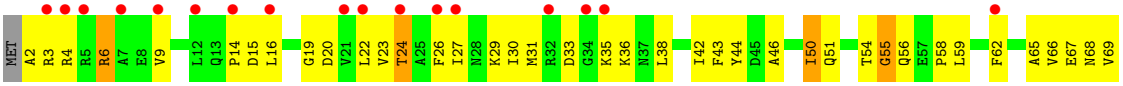
Chain 1g:

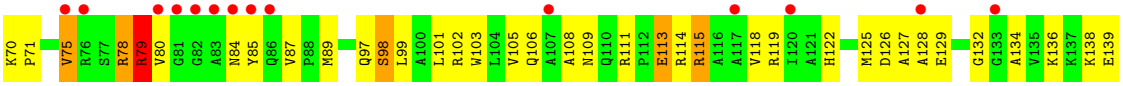


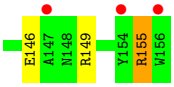


• Molecule 38: 30S ribosomal protein S7

Chain 2g:

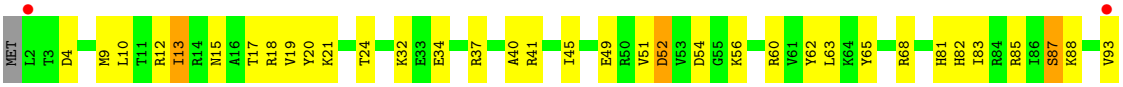


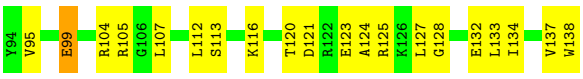




• Molecule 39: 30S ribosomal protein S8

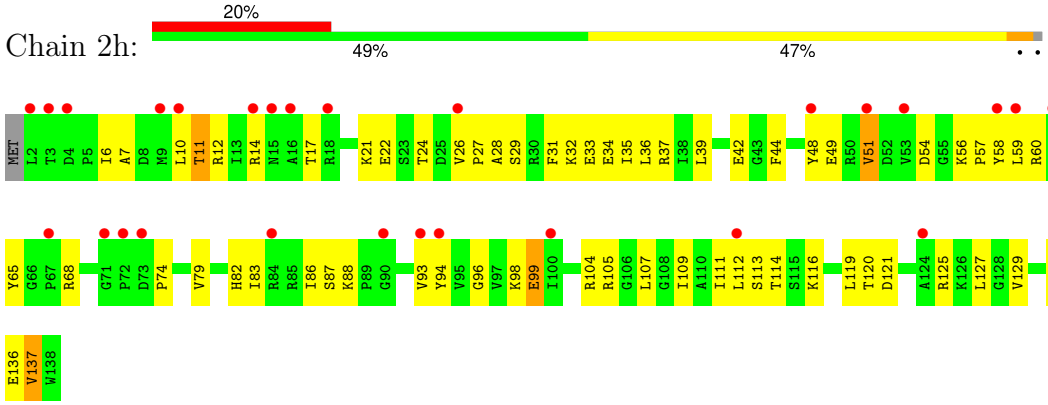
Chain 1h:





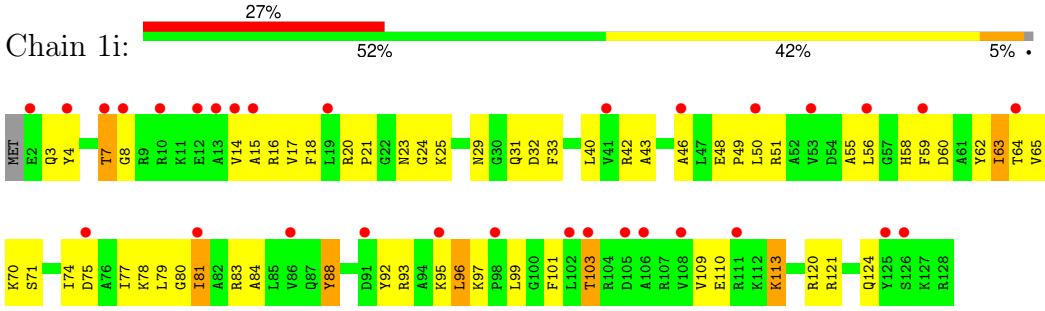
• Molecule 39: 30S ribosomal protein S8

Chain 2h:



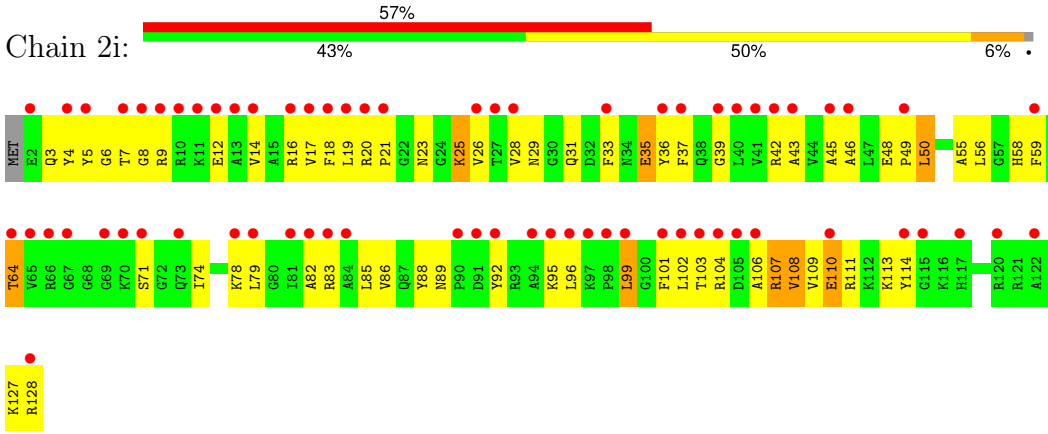
• Molecule 40: 30S ribosomal protein S9

Chain 1i:



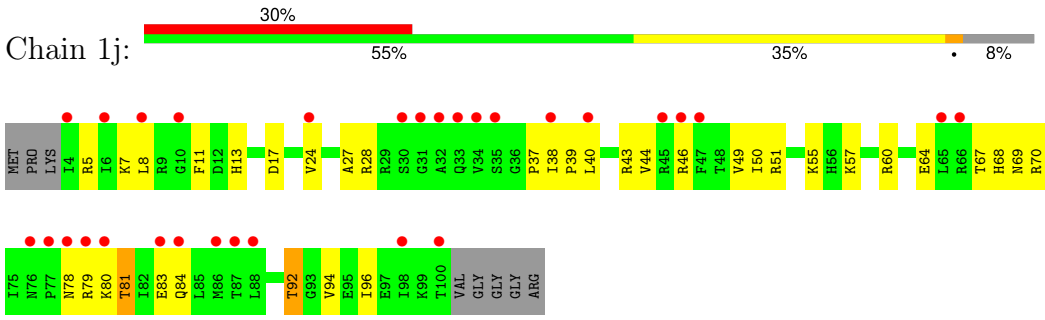
• Molecule 40: 30S ribosomal protein S9

Chain 2i:



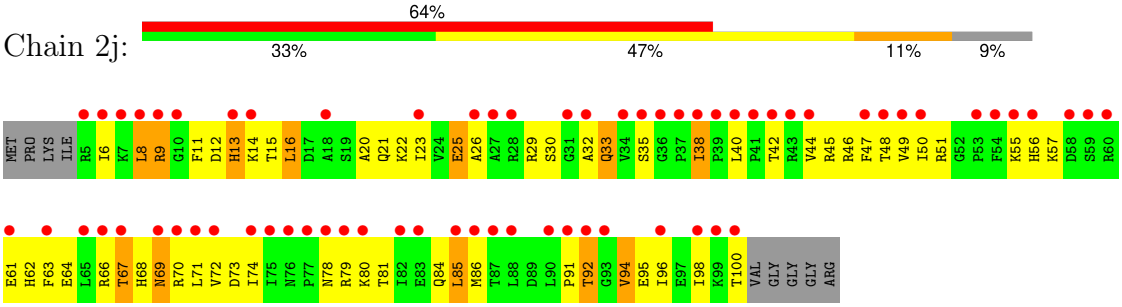
• Molecule 41: 30S ribosomal protein S10

Chain 1j:



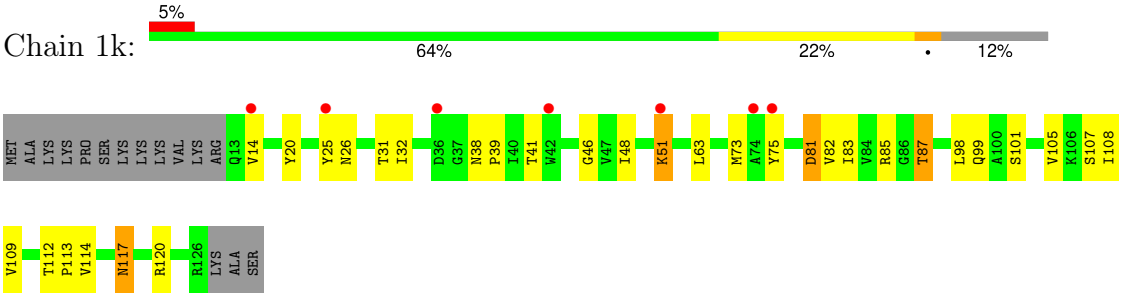
• Molecule 41: 30S ribosomal protein S10

Chain 2j:



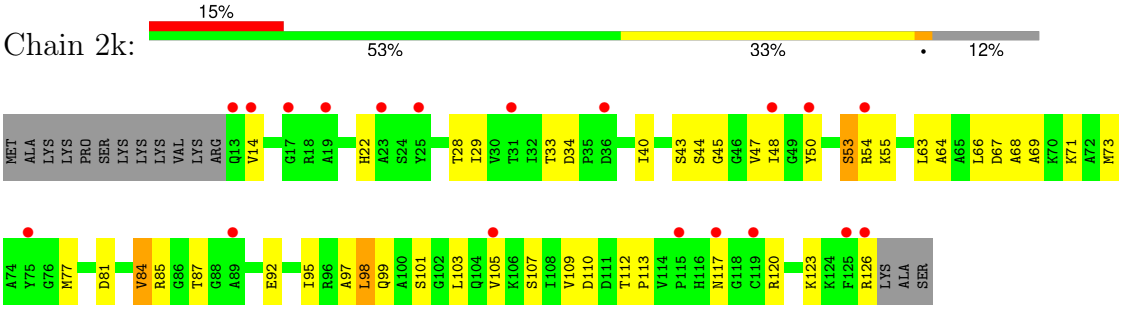
• Molecule 42: 30S ribosomal protein S11

Chain 1k:



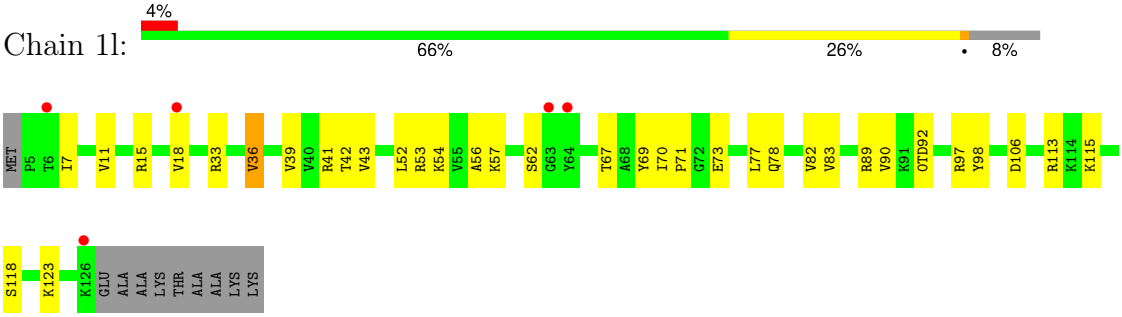
• Molecule 42: 30S ribosomal protein S11

Chain 2k:



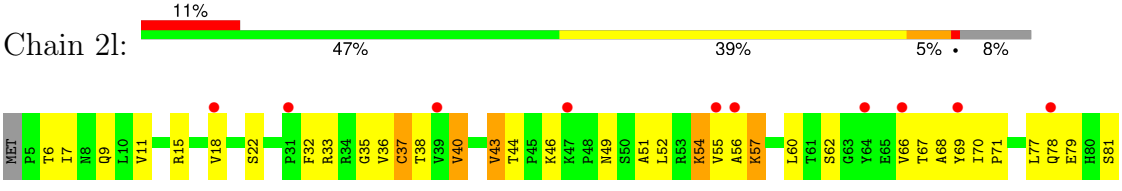
• Molecule 43: 30S ribosomal protein S12

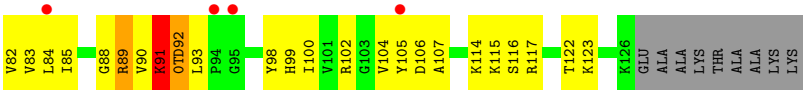
Chain 1l:



• Molecule 43: 30S ribosomal protein S12

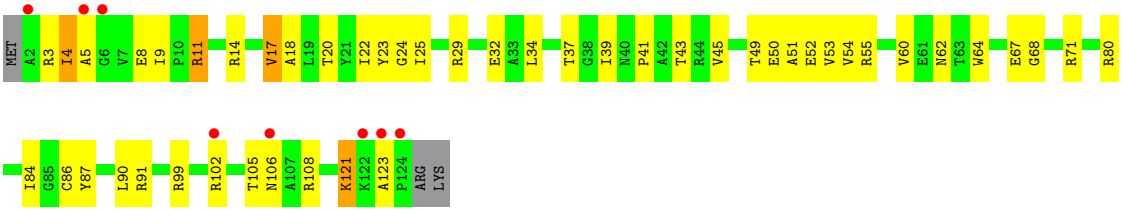
Chain 2l:





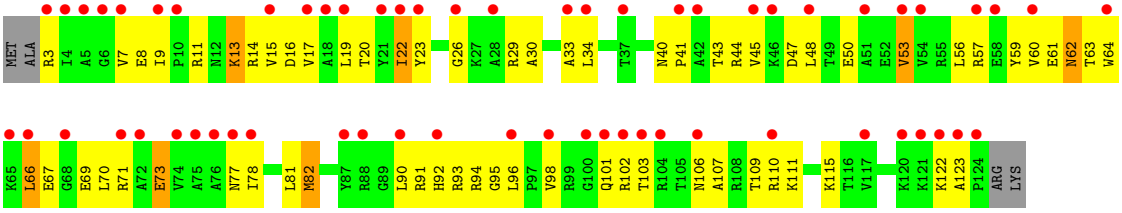
• Molecule 44: 30S ribosomal protein S13

Chain 1m:



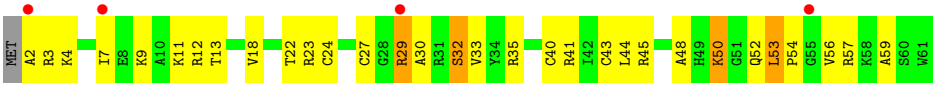
• Molecule 44: 30S ribosomal protein S13

Chain 2m:



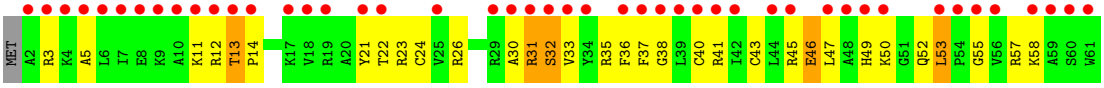
• Molecule 45: 30S ribosomal protein S14 type Z

Chain 1n:



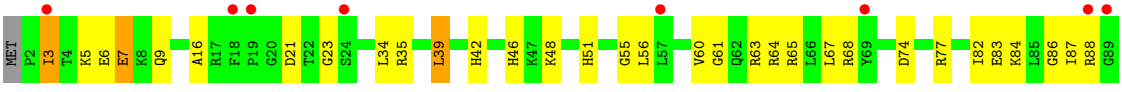
• Molecule 45: 30S ribosomal protein S14 type Z

Chain 2n:



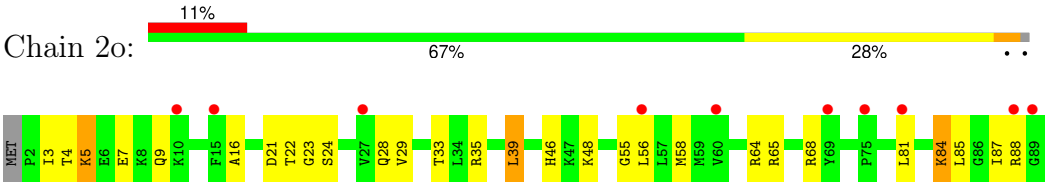
• Molecule 46: 30S ribosomal protein S15

Chain 1o:



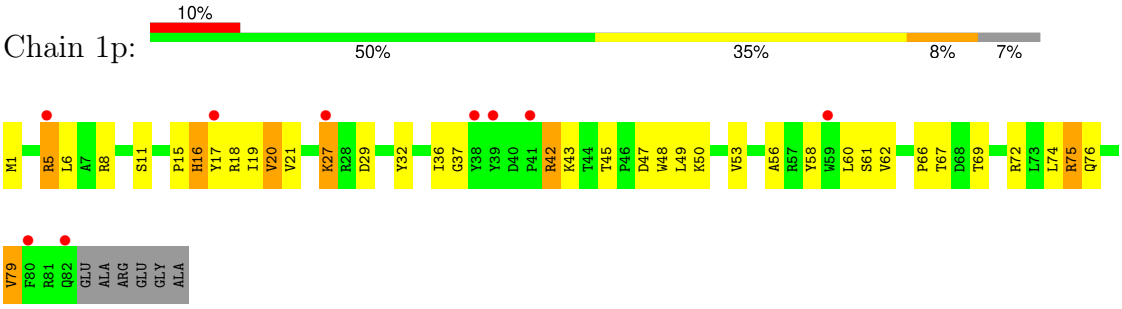
• Molecule 46: 30S ribosomal protein S15

Chain 2o:



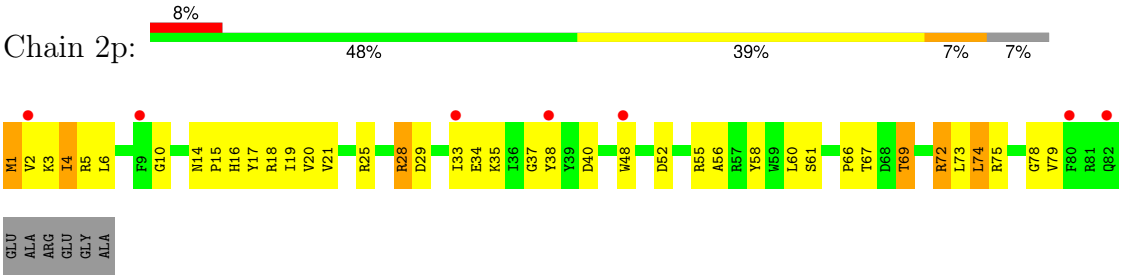
• Molecule 47: 30S ribosomal protein S16

Chain 1p:



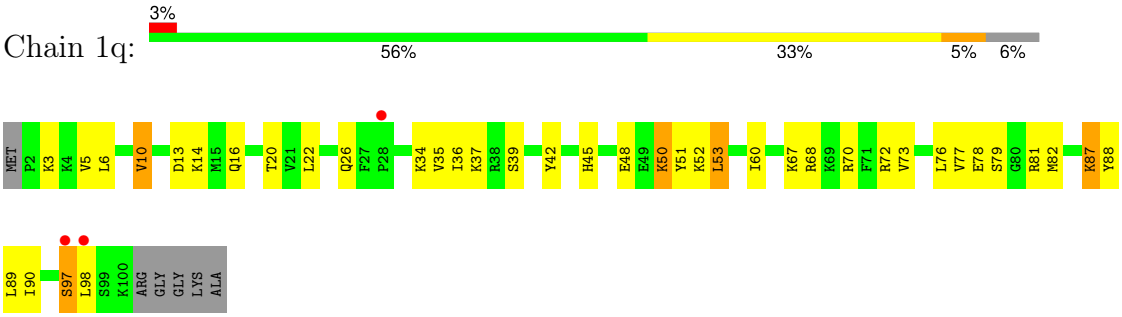
• Molecule 47: 30S ribosomal protein S16

Chain 2p:



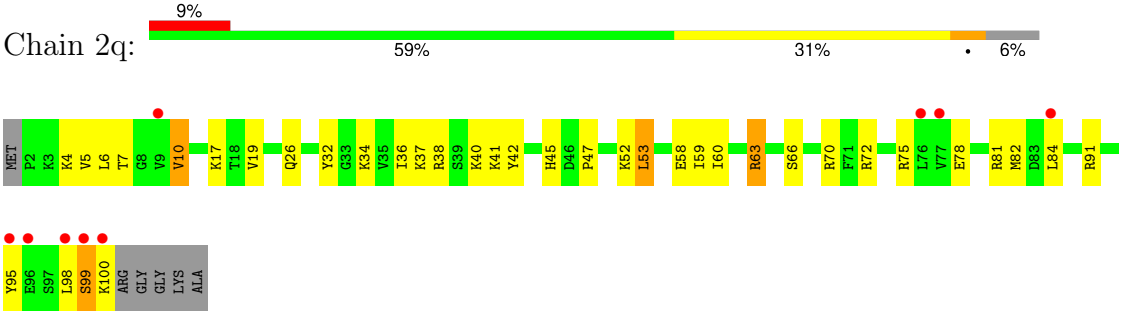
• Molecule 48: 30S ribosomal protein S17

Chain 1q:



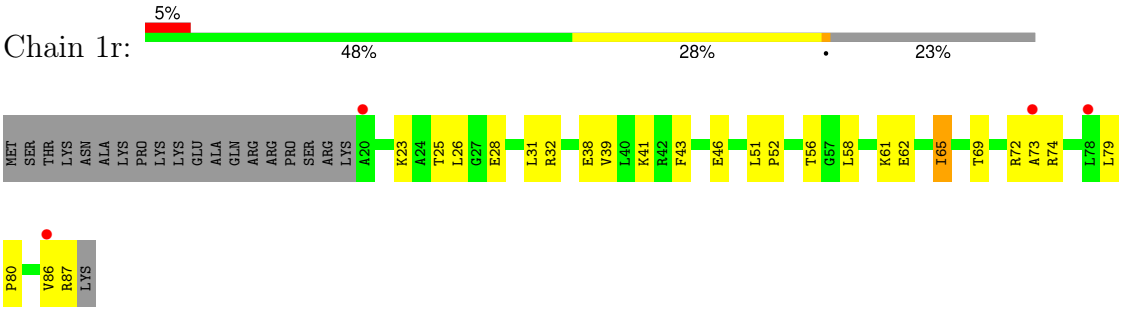
• Molecule 48: 30S ribosomal protein S17

Chain 2q:



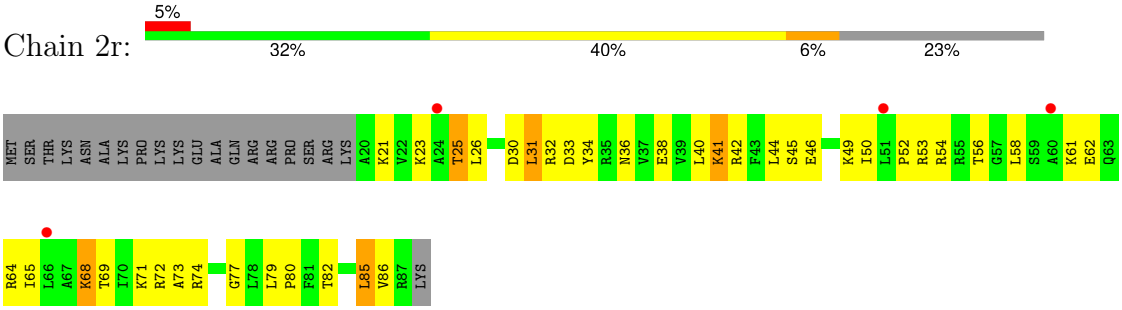
• Molecule 49: 30S ribosomal protein S18

Chain 1r:



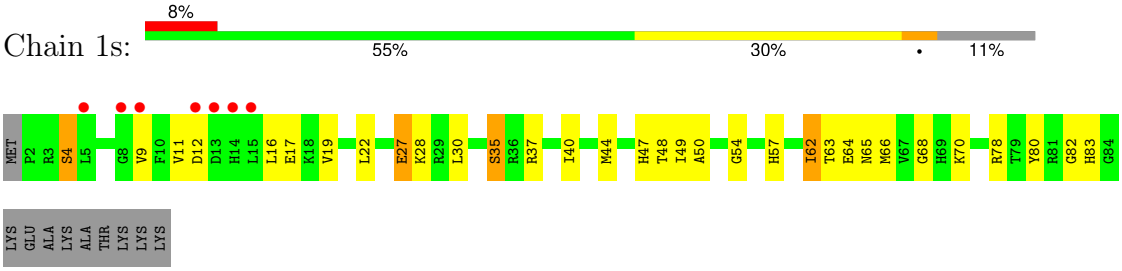
• Molecule 49: 30S ribosomal protein S18

Chain 2r:



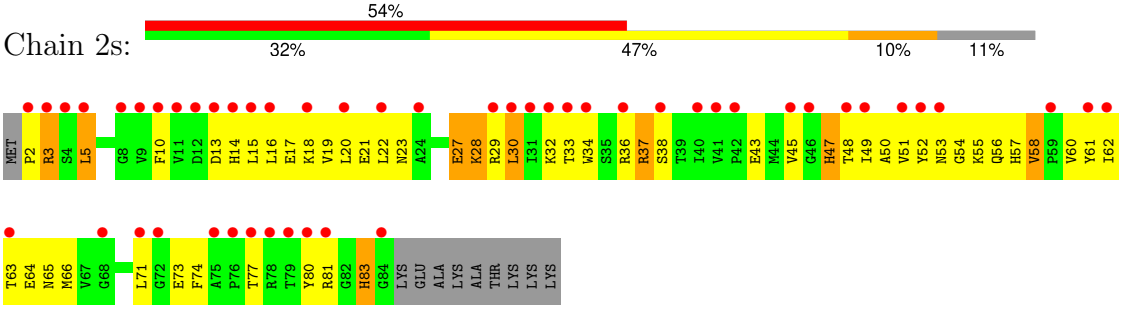
• Molecule 50: 30S ribosomal protein S19

Chain 1s:



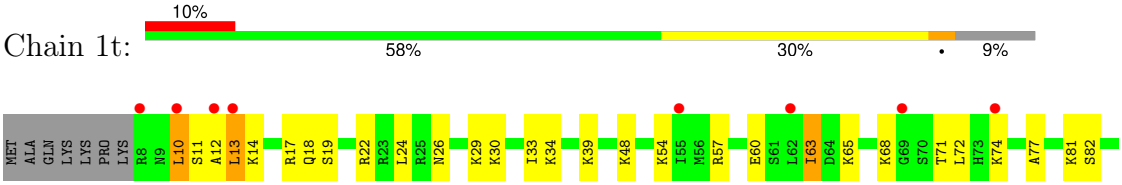
• Molecule 50: 30S ribosomal protein S19

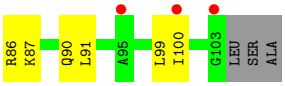
Chain 2s:



• Molecule 51: 30S ribosomal protein S20

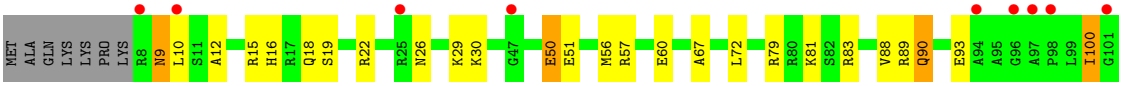
Chain 1t:





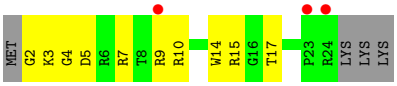
• Molecule 51: 30S ribosomal protein S20

Chain 2t:



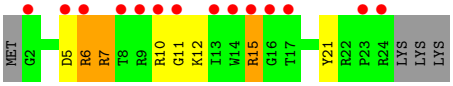
• Molecule 52: 30S ribosomal protein Thx

Chain 1u:



• Molecule 52: 30S ribosomal protein Thx

Chain 2u:

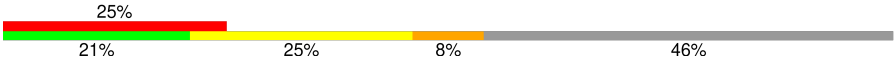


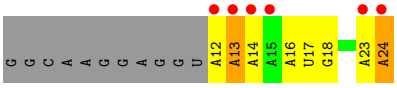
• Molecule 53: MF-mRNA

Chain 1v:

• Molecule 53: MF-mRNA

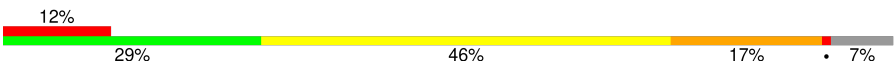
Chain 2v:

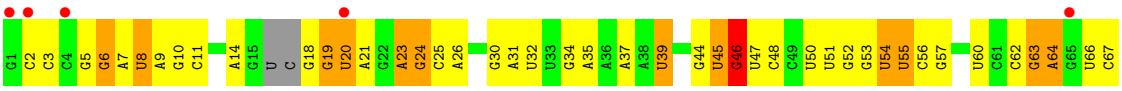


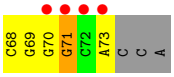


• Molecule 54: A-site and E-site Deacylated tRNAphe

Chain 1w:

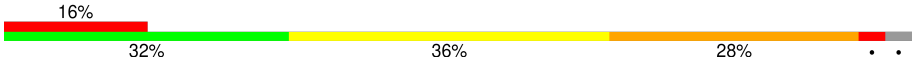


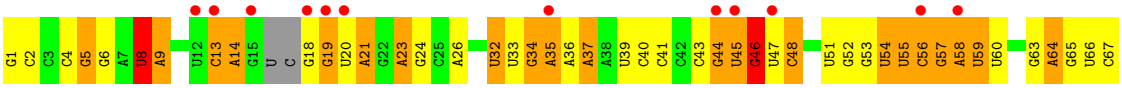


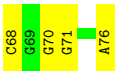


• Molecule 54: A-site and E-site Deacylated tRNAphe

Chain 1y:

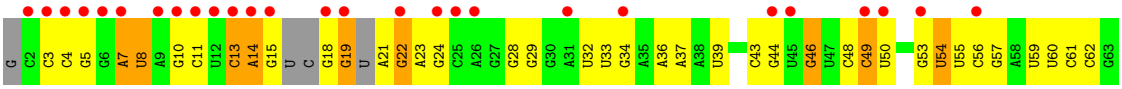


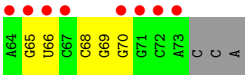




• Molecule 54: A-site and E-site Deacylated tRNAphe

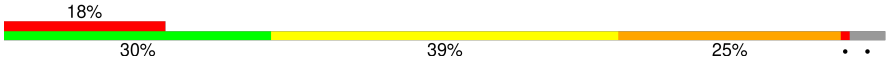
Chain 2w:

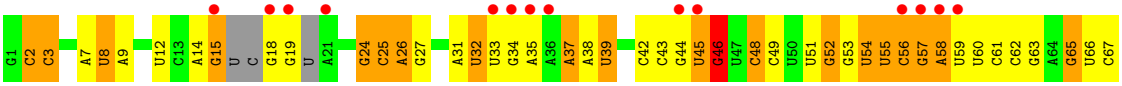




• Molecule 54: A-site and E-site Deacylated tRNAphe

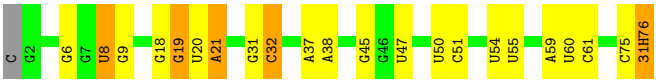
Chain 2y:





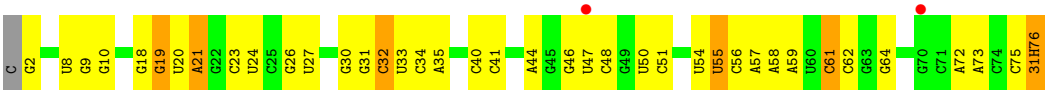
• Molecule 55: P-site Aminoacylated fMet-tRNAmet

Chain 1x:



• Molecule 55: P-site Aminoacylated fMet-tRNAmet

Chain 2x:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.31Å 450.93Å 625.88Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	125.54 – 2.50 125.54 – 2.50	Depositor EDS
% Data completeness (in resolution range)	98.6 (125.54-2.50) 98.6 (125.54-2.50)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.25 (at 2.52Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.217 , 0.266 0.219 , 0.268	Depositor DCC
R_{free} test set	99943 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å^2)	53.4	Xtriage
Anisotropy	0.130	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 56.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.43$, $< L^2 > = 0.25$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	300042	wwPDB-VP
Average B, all atoms (Å^2)	61.0	wwPDB-VP

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

[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 (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: OMG, 4SU, 2MG, MG, K, SF4, M2G, ZN, OMC, MA6, 2MA, G7M, OMU, 31H, MIA, 0TD, 5MC, 4OC, A1A1J, 5MU, PSU, UR3

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1A	0.64	1/69011 (0.0%)	0.82	16/107720 (0.0%)
1	2A	0.47	1/67295 (0.0%)	0.68	4/105042 (0.0%)
2	1B	0.53	0/2882	0.77	0/4494
2	2B	0.47	0/2879	0.63	0/4487
3	1D	0.64	0/2186	0.83	0/2944
3	2D	0.49	0/2186	0.69	0/2944
4	1E	0.64	0/1592	0.86	0/2149
4	2E	0.44	0/1592	0.68	0/2149
5	1F	0.63	0/1619	0.89	2/2193 (0.1%)
5	2F	0.44	0/1615	0.67	0/2188
6	1G	0.47	0/1448	0.68	0/1957
6	2G	0.44	0/1453	0.65	0/1963
7	1H	0.49	0/1356	0.68	0/1834
7	2H	0.42	0/1356	0.57	0/1834
8	1I	0.42	0/1112	0.66	0/1514
8	2I	0.43	0/1079	0.67	0/1475
9	1N	0.62	0/1144	0.79	0/1543
9	2N	0.40	0/1144	0.61	0/1543
10	1O	0.58	0/943	0.79	0/1269
10	2O	0.44	0/943	0.64	0/1269
11	1P	0.63	0/1152	0.88	0/1533
11	2P	0.44	0/1152	0.69	0/1533
12	1Q	0.62	0/1143	0.82	0/1527
12	2Q	0.43	0/1143	0.67	2/1527 (0.1%)
13	1R	0.68	0/982	0.85	1/1312 (0.1%)
13	2R	0.45	0/982	0.70	0/1312
14	1S	0.52	0/883	0.79	0/1176
14	2S	0.47	0/880	0.64	0/1172
15	1T	0.58	0/1105	0.79	0/1477
15	2T	0.42	0/1097	0.63	0/1468
16	1U	0.70	0/977	0.89	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
16	2U	0.44	0/977	0.64	0/1301
17	1V	0.62	0/782	0.83	0/1049
17	2V	0.40	0/782	0.59	0/1049
18	1W	0.70	0/897	0.87	0/1205
18	2W	0.48	0/897	0.67	0/1205
19	1X	0.60	0/764	0.80	2/1025 (0.2%)
19	2X	0.47	0/764	0.71	2/1025 (0.2%)
20	1Y	0.66	1/819 (0.1%)	0.82	0/1095
20	2Y	0.42	0/819	0.68	0/1095
21	1Z	0.50	0/1267	0.73	1/1717 (0.1%)
21	2Z	0.48	0/1299	0.65	0/1763
22	10	0.65	0/616	0.87	1/821 (0.1%)
22	20	0.43	0/616	0.62	0/821
23	11	0.56	0/762	0.74	0/1014
23	21	0.47	0/762	0.67	0/1014
24	12	0.56	0/590	0.74	0/781
24	22	0.38	0/590	0.60	0/781
25	13	0.66	0/474	0.83	2/635 (0.3%)
25	23	0.38	0/469	0.62	0/630
26	14	0.50	0/565	0.84	0/761
26	24	0.54	0/545	0.71	0/737
27	15	0.63	0/469	0.88	0/635
27	25	0.46	0/469	0.61	0/635
28	16	0.59	0/460	0.82	0/613
28	26	0.44	0/456	0.65	0/608
29	17	0.74	0/426	0.88	0/561
29	27	0.57	0/426	0.77	0/561
30	18	0.64	0/525	0.83	0/691
30	28	0.46	0/525	0.65	0/691
31	19	0.63	0/310	0.86	0/407
31	29	0.42	0/310	0.72	0/407
32	1a	0.44	1/35795 (0.0%)	0.65	3/55864 (0.0%)
32	2a	0.45	1/35886 (0.0%)	0.64	3/56005 (0.0%)
33	1b	0.44	0/1881	0.72	0/2542
33	2b	0.50	0/1860	0.72	2/2518 (0.1%)
34	1c	0.41	0/1572	0.59	0/2126
34	2c	0.52	0/1566	0.68	0/2119
35	1d	0.41	0/1685	0.63	0/2262
35	2d	0.42	0/1704	0.66	0/2284
36	1e	0.41	0/1145	0.64	0/1543
36	2e	0.49	0/1149	0.68	0/1548
37	1f	0.41	0/823	0.62	0/1115
37	2f	0.43	0/829	0.60	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
38	1g	0.38	0/1250	0.61	0/1679
38	2g	0.43	0/1254	0.59	0/1683
39	1h	0.41	0/1108	0.63	0/1494
39	2h	0.38	0/1108	0.64	0/1494
40	1i	0.40	0/1002	0.66	0/1346
40	2i	0.49	0/997	0.69	0/1343
41	1j	0.45	0/722	0.64	0/982
41	2j	0.50	0/727	0.69	0/988
42	1k	0.41	0/844	0.64	0/1145
42	2k	0.41	0/848	0.55	0/1149
43	1l	0.45	0/937	0.72	0/1260
43	2l	0.41	0/937	0.67	0/1260
44	1m	0.44	0/969	0.66	0/1302
44	2m	0.46	0/961	0.66	0/1291
45	1n	0.42	0/501	0.65	0/664
45	2n	0.49	0/501	0.73	0/664
46	1o	0.44	0/739	0.63	0/985
46	2o	0.39	0/739	0.59	0/985
47	1p	0.40	0/697	0.67	0/939
47	2p	0.44	0/693	0.69	0/935
48	1q	0.41	0/836	0.60	0/1117
48	2q	0.40	0/836	0.61	0/1117
49	1r	0.40	0/560	0.67	0/746
49	2r	0.41	0/560	0.63	0/746
50	1s	0.38	0/667	0.64	0/900
50	2s	0.55	0/661	0.80	0/893
51	1t	0.40	0/730	0.69	0/965
51	2t	0.41	0/729	0.66	0/965
52	1u	0.38	0/203	0.60	0/266
52	2u	0.43	0/203	0.60	0/266
53	1v	0.47	0/310	0.58	0/480
53	2v	0.49	0/310	0.53	0/480
54	1w	0.59	2/1537 (0.1%)	0.60	0/2390
54	1y	0.53	2/1606 (0.1%)	0.59	0/2497
54	2w	0.67	2/1487 (0.1%)	0.62	0/2311
54	2y	0.56	2/1583 (0.1%)	0.59	0/2459
55	1x	0.50	1/1700 (0.1%)	0.70	0/2650
55	2x	0.46	1/1700 (0.1%)	0.64	0/2650
All	All	0.52	15/316410 (0.0%)	0.71	41/473717 (0.0%)

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

sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
5	1F	0	1
5	2F	0	1
6	1G	0	2
6	2G	0	2
11	1P	0	3
11	2P	0	1
12	1Q	0	1
17	1V	0	1
21	1Z	0	3
21	2Z	0	1
23	11	0	1
26	14	0	1
33	1b	0	1
33	2b	0	4
34	2c	0	1
38	2g	0	1
44	1m	0	1
44	2m	0	1
50	1s	0	1
All	All	0	28

The worst 5 of 15 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	1Y	80	GLY	C-N	11.08	1.52	1.33
54	2w	8	4SU	O3'-P	5.95	1.62	1.56
55	2x	8	4SU	O3'-P	5.93	1.62	1.56
32	1a	1498	UR3	O3'-P	5.92	1.62	1.56
1	2A	2552	OMU	O3'-P	5.82	1.62	1.56

The worst 5 of 41 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1992	G	C2'-C3'-O3'	9.97	124.45	109.50
1	1A	1992	G	P-O3'-C3'	8.29	132.63	120.20
1	2A	1992	G	C2'-C3'-O3'	7.37	120.56	109.50
5	1F	89	VAL	CA-C-N	-6.99	110.76	123.34
5	1F	89	VAL	C-N-CA	-6.99	110.76	123.34

There are no chirality outliers.

5 of 28 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
5	1F	131	GLY	Peptide
6	1G	126	ASP	Peptide
6	1G	95	ARG	Peptide
11	1P	28	GLY	Peptide
11	1P	35	HIS	Peptide

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	61852	0	31189	655	0
1	2A	60322	0	30427	932	0
2	1B	2577	0	1305	25	0
2	2B	2575	0	1303	74	0
3	1D	2136	0	2218	36	0
3	2D	2136	0	2218	42	0
4	1E	1559	0	1618	35	0
4	2E	1559	0	1618	46	0
5	1F	1584	0	1625	34	0
5	2F	1580	0	1619	68	0
6	1G	1423	0	1436	44	0
6	2G	1428	0	1438	107	0
7	1H	1330	0	1407	32	0
7	2H	1330	0	1407	55	0
8	1I	1097	0	1140	44	0
8	2I	1064	0	1082	47	0
9	1N	1117	0	1184	22	0
9	2N	1117	0	1184	20	0
10	1O	933	0	996	23	0
10	2O	933	0	996	31	0
11	1P	1135	0	1212	36	0
11	2P	1135	0	1212	42	0
12	1Q	1122	0	1179	14	0
12	2Q	1122	0	1179	30	0
13	1R	968	0	1033	17	0
13	2R	968	0	1033	22	0
14	1S	873	0	927	19	0
14	2S	870	0	923	60	0
15	1T	1091	0	1151	25	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	2T	1083	0	1136	26	0
16	1U	959	0	1019	15	0
16	2U	959	0	1019	25	0
17	1V	771	0	830	11	0
17	2V	771	0	830	18	0
18	1W	886	0	940	11	0
18	2W	886	0	940	16	0
19	1X	750	0	814	12	0
19	2X	750	0	814	19	0
20	1Y	806	0	881	19	0
20	2Y	806	0	881	18	0
21	1Z	1240	0	1240	42	0
21	2Z	1271	0	1273	77	0
22	10	608	0	622	12	0
22	20	608	0	622	24	0
23	11	755	0	826	17	0
23	21	755	0	826	19	0
24	12	588	0	643	7	0
24	22	588	0	643	14	0
25	13	469	0	518	9	0
25	23	464	0	514	17	0
26	14	552	0	533	37	0
26	24	532	0	503	25	0
27	15	455	0	465	4	0
27	25	455	0	465	7	0
28	16	453	0	473	16	0
28	26	449	0	469	13	0
29	17	418	0	467	4	0
29	27	418	0	467	6	0
30	18	517	0	582	16	0
30	28	517	0	582	12	0
31	19	307	0	335	5	0
31	29	307	0	335	9	0
32	1a	32246	0	16295	552	0
32	2a	32327	0	16338	809	0
33	1b	1846	0	1867	86	0
33	2b	1825	0	1828	122	0
34	1c	1548	0	1535	56	0
34	2c	1542	0	1517	98	0
35	1d	1655	0	1672	70	1
35	2d	1674	0	1714	63	0
36	1e	1129	0	1185	49	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
36	2e	1133	0	1191	77	0
37	1f	810	0	804	23	0
37	2f	816	0	808	25	1
38	1g	1231	0	1238	32	0
38	2g	1235	0	1249	63	0
39	1h	1088	0	1126	40	0
39	2h	1088	0	1126	51	0
40	1i	983	0	986	50	0
40	2i	978	0	966	75	0
41	1j	709	0	650	35	0
41	2j	714	0	672	53	0
42	1k	829	0	825	16	0
42	2k	833	0	836	29	0
43	1l	932	0	981	22	0
43	2l	932	0	981	39	0
44	1m	958	0	1002	34	0
44	2m	950	0	988	66	0
45	1n	492	0	529	21	0
45	2n	492	0	529	31	0
46	1o	728	0	760	22	0
46	2o	728	0	760	21	0
47	1p	681	0	697	29	0
47	2p	677	0	686	28	0
48	1q	823	0	891	25	0
48	2q	823	0	891	25	0
49	1r	555	0	618	22	0
49	2r	555	0	618	30	0
50	1s	652	0	662	27	0
50	2s	646	0	644	58	0
51	1t	728	0	798	26	0
51	2t	727	0	796	17	0
52	1u	199	0	208	5	0
52	2u	199	0	208	7	0
53	1v	277	0	140	4	0
53	2v	277	0	140	8	0
54	1w	1530	0	785	31	0
54	1y	1585	0	803	37	0
54	2w	1482	0	754	18	0
54	2y	1565	0	794	36	0
55	1x	1635	0	840	12	0
55	2x	1635	0	840	27	0
56	10	8	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	11	6	0	0	0	0
56	12	2	0	0	0	0
56	13	5	0	0	0	0
56	14	2	0	0	0	0
56	15	6	0	0	0	0
56	16	1	0	0	0	0
56	17	4	0	0	0	0
56	18	7	0	0	0	0
56	19	1	0	0	0	0
56	1A	1101	0	0	0	0
56	1B	37	0	0	0	0
56	1D	13	0	0	0	0
56	1E	15	0	0	0	0
56	1F	15	0	0	0	0
56	1G	4	0	0	0	0
56	1I	1	0	0	0	0
56	1N	5	0	0	0	0
56	1O	6	0	0	0	0
56	1P	6	0	0	0	0
56	1Q	6	0	0	0	0
56	1R	5	0	0	0	0
56	1S	3	0	0	0	0
56	1T	3	0	0	0	0
56	1U	10	0	0	0	0
56	1V	6	0	0	0	0
56	1W	7	0	0	0	0
56	1X	6	0	0	0	0
56	1Y	3	0	0	0	0
56	1Z	3	0	0	0	0
56	1a	215	0	0	0	0
56	1b	1	0	0	0	0
56	1e	2	0	0	0	0
56	1f	2	0	0	0	0
56	1h	1	0	0	0	0
56	1k	1	0	0	0	0
56	1l	2	0	0	0	0
56	1m	1	0	0	0	0
56	1n	2	0	0	0	0
56	1p	1	0	0	0	0
56	1t	1	0	0	0	0
56	1w	7	0	0	0	0
56	1x	14	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	1y	2	0	0	0	0
56	20	2	0	0	0	0
56	21	3	0	0	0	0
56	23	1	0	0	0	0
56	25	5	0	0	0	0
56	26	1	0	0	0	0
56	27	2	0	0	0	0
56	28	4	0	0	0	0
56	29	1	0	0	0	0
56	2A	875	0	0	0	0
56	2B	20	0	0	0	0
56	2D	9	0	0	0	0
56	2E	10	0	0	0	0
56	2F	6	0	0	0	0
56	2G	1	0	0	0	0
56	2O	1	0	0	0	0
56	2P	1	0	0	0	0
56	2Q	4	0	0	0	0
56	2R	1	0	0	0	0
56	2T	3	0	0	0	0
56	2U	2	0	0	0	0
56	2V	2	0	0	0	0
56	2W	4	0	0	0	0
56	2X	1	0	0	0	0
56	2Z	1	0	0	0	0
56	2a	241	0	0	0	0
56	2d	1	0	0	0	0
56	2e	1	0	0	0	0
56	2f	1	0	0	0	0
56	2g	1	0	0	0	0
56	2j	1	0	0	0	0
56	2l	4	0	0	0	0
56	2q	3	0	0	0	0
56	2r	2	0	0	0	0
56	2t	1	0	0	0	0
56	2v	4	0	0	0	0
56	2w	7	0	0	0	0
56	2x	7	0	0	0	0
56	2y	7	0	0	0	0
57	1A	1	0	0	0	0
57	2A	1	0	0	0	0
58	1A	34	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	2A	34	0	0	2	0
59	14	1	0	0	0	0
59	15	1	0	0	0	0
59	16	1	0	0	0	0
59	19	1	0	0	0	0
59	1Y	1	0	0	0	0
59	1n	1	0	0	0	0
59	24	1	0	0	0	0
59	25	1	0	0	0	0
59	26	1	0	0	0	0
59	29	1	0	0	0	0
59	2Y	1	0	0	0	0
59	2n	1	0	0	0	0
60	1d	8	0	0	2	0
60	2d	8	0	0	0	0
61	10	8	0	0	1	0
61	11	11	0	0	0	0
61	12	4	0	0	1	0
61	13	4	0	0	0	0
61	15	5	0	0	0	0
61	16	4	0	0	0	0
61	17	9	0	0	0	0
61	18	12	0	0	1	0
61	1A	2027	0	0	63	0
61	1B	61	0	0	5	0
61	1D	29	0	0	0	0
61	1E	27	0	0	3	0
61	1F	14	0	0	0	0
61	1G	3	0	0	0	0
61	1H	2	0	0	0	0
61	1I	1	0	0	0	0
61	1N	5	0	0	0	0
61	1O	7	0	0	0	0
61	1P	19	0	0	1	0
61	1Q	9	0	0	0	0
61	1R	15	0	0	3	0
61	1S	5	0	0	0	0
61	1T	8	0	0	1	0
61	1U	10	0	0	1	0
61	1V	8	0	0	0	0
61	1W	11	0	0	3	0
61	1X	4	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	1Y	2	0	0	0	0
61	1Z	1	0	0	0	0
61	1a	377	0	0	25	0
61	1b	1	0	0	0	0
61	1g	1	0	0	0	0
61	1i	1	0	0	0	0
61	1l	8	0	0	1	0
61	1m	1	0	0	0	0
61	1o	2	0	0	0	0
61	1p	1	0	0	0	0
61	1q	2	0	0	0	0
61	1u	1	0	0	1	0
61	1v	3	0	0	0	0
61	1w	7	0	0	1	0
61	1x	13	0	0	0	0
61	1y	2	0	0	0	0
61	20	3	0	0	0	0
61	21	9	0	0	1	0
61	23	2	0	0	0	0
61	25	1	0	0	0	0
61	26	1	0	0	1	0
61	27	5	0	0	0	0
61	28	3	0	0	1	0
61	29	1	0	0	0	0
61	2A	1183	0	0	78	0
61	2B	25	0	0	3	0
61	2D	18	0	0	0	0
61	2E	15	0	0	2	0
61	2F	12	0	0	0	0
61	2I	3	0	0	1	0
61	2N	1	0	0	0	0
61	2O	1	0	0	0	0
61	2P	16	0	0	1	0
61	2Q	1	0	0	0	0
61	2R	3	0	0	0	0
61	2T	6	0	0	0	0
61	2U	4	0	0	0	0
61	2W	1	0	0	0	0
61	2X	2	0	0	0	0
61	2Y	2	0	0	0	0
61	2Z	1	0	0	0	0
61	2a	265	0	0	22	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	2d	1	0	0	0	0
61	2e	1	0	0	0	0
61	2i	1	0	0	0	0
61	2j	3	0	0	0	0
61	2l	6	0	0	0	0
61	2p	3	0	0	0	0
61	2q	1	0	0	1	0
61	2r	1	0	0	0	0
61	2t	2	0	0	0	0
61	2v	2	0	0	0	0
61	2w	1	0	0	0	0
61	2x	6	0	0	2	0
61	2y	6	0	0	1	0
All	All	300042	0	196537	5667	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 12.

The worst 5 of 5667 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1082:U:H3	1:1A:1086:A:N6	1.35	1.25
1:1A:1054:A:N6	1:1A:1105:U:H3	1.51	1.08
35:1d:107:ARG:HH22	35:1d:194:LEU:HD22	1.23	1.02
1:2A:2714:G:OP2	61:2A:3902:HOH:O	1.75	1.02
1:2A:2143:C:N4	1:2A:2148:G:H1	1.58	1.00

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1d:27:TYR:OH	37:2f:15:ASP:OD2[2_655]	2.18	0.02

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1D	273/276 (99%)	262 (96%)	11 (4%)	0	100	100
3	2D	273/276 (99%)	256 (94%)	17 (6%)	0	100	100
4	1E	202/206 (98%)	192 (95%)	9 (4%)	1 (0%)	25	44
4	2E	202/206 (98%)	190 (94%)	12 (6%)	0	100	100
5	1F	201/210 (96%)	196 (98%)	5 (2%)	0	100	100
5	2F	201/210 (96%)	184 (92%)	17 (8%)	0	100	100
6	1G	179/182 (98%)	163 (91%)	15 (8%)	1 (1%)	22	39
6	2G	179/182 (98%)	152 (85%)	26 (14%)	1 (1%)	22	39
7	1H	172/180 (96%)	163 (95%)	9 (5%)	0	100	100
7	2H	172/180 (96%)	158 (92%)	14 (8%)	0	100	100
8	1I	144/148 (97%)	122 (85%)	22 (15%)	0	100	100
8	2I	144/148 (97%)	120 (83%)	24 (17%)	0	100	100
9	1N	138/140 (99%)	129 (94%)	9 (6%)	0	100	100
9	2N	138/140 (99%)	126 (91%)	11 (8%)	1 (1%)	19	35
10	1O	120/122 (98%)	113 (94%)	7 (6%)	0	100	100
10	2O	120/122 (98%)	111 (92%)	9 (8%)	0	100	100
11	1P	147/150 (98%)	132 (90%)	13 (9%)	2 (1%)	9	17
11	2P	147/150 (98%)	128 (87%)	18 (12%)	1 (1%)	19	35
12	1Q	139/141 (99%)	132 (95%)	7 (5%)	0	100	100
12	2Q	139/141 (99%)	128 (92%)	11 (8%)	0	100	100
13	1R	116/118 (98%)	113 (97%)	3 (3%)	0	100	100
13	2R	116/118 (98%)	109 (94%)	7 (6%)	0	100	100
14	1S	108/112 (96%)	102 (94%)	6 (6%)	0	100	100
14	2S	108/112 (96%)	92 (85%)	16 (15%)	0	100	100
15	1T	129/146 (88%)	121 (94%)	8 (6%)	0	100	100
15	2T	129/146 (88%)	124 (96%)	5 (4%)	0	100	100
16	1U	114/118 (97%)	113 (99%)	1 (1%)	0	100	100
16	2U	114/118 (97%)	109 (96%)	5 (4%)	0	100	100
17	1V	99/101 (98%)	95 (96%)	4 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
17	2V	99/101 (98%)	91 (92%)	7 (7%)	1 (1%)	13 25
18	1W	110/113 (97%)	110 (100%)	0	0	100 100
18	2W	110/113 (97%)	106 (96%)	4 (4%)	0	100 100
19	1X	93/96 (97%)	88 (95%)	5 (5%)	0	100 100
19	2X	93/96 (97%)	84 (90%)	9 (10%)	0	100 100
20	1Y	105/110 (96%)	98 (93%)	7 (7%)	0	100 100
20	2Y	105/110 (96%)	100 (95%)	5 (5%)	0	100 100
21	1Z	148/206 (72%)	132 (89%)	15 (10%)	1 (1%)	19 35
21	2Z	156/206 (76%)	127 (81%)	27 (17%)	2 (1%)	10 19
22	10	75/85 (88%)	71 (95%)	3 (4%)	1 (1%)	10 19
22	20	75/85 (88%)	71 (95%)	3 (4%)	1 (1%)	10 19
23	11	95/98 (97%)	90 (95%)	5 (5%)	0	100 100
23	21	95/98 (97%)	90 (95%)	5 (5%)	0	100 100
24	12	68/72 (94%)	67 (98%)	1 (2%)	0	100 100
24	22	68/72 (94%)	66 (97%)	2 (3%)	0	100 100
25	13	57/60 (95%)	56 (98%)	1 (2%)	0	100 100
25	23	57/60 (95%)	50 (88%)	7 (12%)	0	100 100
26	14	67/71 (94%)	53 (79%)	13 (19%)	1 (2%)	8 16
26	24	67/71 (94%)	48 (72%)	17 (25%)	2 (3%)	3 5
27	15	57/60 (95%)	56 (98%)	1 (2%)	0	100 100
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%)	47 (92%)	4 (8%)	0	100 100
29	17	46/49 (94%)	45 (98%)	1 (2%)	0	100 100
29	27	46/49 (94%)	46 (100%)	0	0	100 100
30	18	62/65 (95%)	62 (100%)	0	0	100 100
30	28	62/65 (95%)	61 (98%)	1 (2%)	0	100 100
31	19	35/37 (95%)	34 (97%)	1 (3%)	0	100 100
31	29	35/37 (95%)	33 (94%)	2 (6%)	0	100 100
33	1b	229/256 (90%)	189 (82%)	36 (16%)	4 (2%)	7 14
33	2b	229/256 (90%)	171 (75%)	55 (24%)	3 (1%)	10 19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	1c	204/239 (85%)	185 (91%)	19 (9%)	0	100	100
34	2c	204/239 (85%)	160 (78%)	44 (22%)	0	100	100
35	1d	206/209 (99%)	185 (90%)	21 (10%)	0	100	100
35	2d	206/209 (99%)	185 (90%)	20 (10%)	1 (0%)	25	44
36	1e	146/162 (90%)	129 (88%)	17 (12%)	0	100	100
36	2e	146/162 (90%)	125 (86%)	21 (14%)	0	100	100
37	1f	98/101 (97%)	90 (92%)	8 (8%)	0	100	100
37	2f	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
38	1g	153/156 (98%)	138 (90%)	15 (10%)	0	100	100
38	2g	153/156 (98%)	134 (88%)	18 (12%)	1 (1%)	19	35
39	1h	135/138 (98%)	125 (93%)	10 (7%)	0	100	100
39	2h	135/138 (98%)	119 (88%)	16 (12%)	0	100	100
40	1i	125/128 (98%)	111 (89%)	14 (11%)	0	100	100
40	2i	125/128 (98%)	107 (86%)	18 (14%)	0	100	100
41	1j	95/105 (90%)	82 (86%)	12 (13%)	1 (1%)	12	23
41	2j	94/105 (90%)	77 (82%)	16 (17%)	1 (1%)	12	23
42	1k	112/129 (87%)	104 (93%)	8 (7%)	0	100	100
42	2k	112/129 (87%)	99 (88%)	13 (12%)	0	100	100
43	1l	119/132 (90%)	112 (94%)	7 (6%)	0	100	100
43	2l	119/132 (90%)	102 (86%)	16 (13%)	1 (1%)	16	31
44	1m	121/126 (96%)	107 (88%)	14 (12%)	0	100	100
44	2m	120/126 (95%)	103 (86%)	17 (14%)	0	100	100
45	1n	58/61 (95%)	52 (90%)	6 (10%)	0	100	100
45	2n	58/61 (95%)	47 (81%)	11 (19%)	0	100	100
46	1o	86/89 (97%)	80 (93%)	6 (7%)	0	100	100
46	2o	86/89 (97%)	76 (88%)	10 (12%)	0	100	100
47	1p	80/88 (91%)	72 (90%)	8 (10%)	0	100	100
47	2p	80/88 (91%)	75 (94%)	5 (6%)	0	100	100
48	1q	97/105 (92%)	91 (94%)	6 (6%)	0	100	100
48	2q	97/105 (92%)	87 (90%)	10 (10%)	0	100	100
49	1r	66/88 (75%)	61 (92%)	5 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
49	2r	66/88 (75%)	61 (92%)	5 (8%)	0	100	100
50	1s	81/93 (87%)	72 (89%)	9 (11%)	0	100	100
50	2s	81/93 (87%)	66 (82%)	15 (18%)	0	100	100
51	1t	94/106 (89%)	82 (87%)	12 (13%)	0	100	100
51	2t	94/106 (89%)	79 (84%)	15 (16%)	0	100	100
52	1u	21/27 (78%)	18 (86%)	3 (14%)	0	100	100
52	2u	21/27 (78%)	19 (90%)	2 (10%)	0	100	100
All	All	11358/12128 (94%)	10289 (91%)	1041 (9%)	28 (0%)	44	64

5 of 28 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
11	1P	36	LYS
21	1Z	53	ILE
41	1j	79	ARG
21	2Z	51	ALA
21	2Z	52	SER

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%)	202 (94%)	13 (6%)	16	33
3	2D	215/218 (99%)	205 (95%)	10 (5%)	22	44
4	1E	164/166 (99%)	157 (96%)	7 (4%)	25	48
4	2E	164/166 (99%)	150 (92%)	14 (8%)	8	18
5	1F	160/166 (96%)	140 (88%)	20 (12%)	3	7
5	2F	159/166 (96%)	143 (90%)	16 (10%)	6	12
6	1G	143/156 (92%)	124 (87%)	19 (13%)	3	6
6	2G	143/156 (92%)	114 (80%)	29 (20%)	1	2
7	1H	144/148 (97%)	132 (92%)	12 (8%)	9	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
7	2H	144/148 (97%)	124 (86%)	20 (14%)	3 5
8	1I	113/124 (91%)	89 (79%)	24 (21%)	1 1
8	2I	105/124 (85%)	83 (79%)	22 (21%)	1 1
9	1N	118/119 (99%)	109 (92%)	9 (8%)	11 22
9	2N	118/119 (99%)	108 (92%)	10 (8%)	8 18
10	1O	100/100 (100%)	95 (95%)	5 (5%)	20 41
10	2O	100/100 (100%)	91 (91%)	9 (9%)	8 16
11	1P	115/116 (99%)	105 (91%)	10 (9%)	8 17
11	2P	115/116 (99%)	102 (89%)	13 (11%)	4 9
12	1Q	111/111 (100%)	105 (95%)	6 (5%)	18 37
12	2Q	111/111 (100%)	101 (91%)	10 (9%)	8 16
13	1R	101/101 (100%)	94 (93%)	7 (7%)	13 26
13	2R	101/101 (100%)	96 (95%)	5 (5%)	20 41
14	1S	86/88 (98%)	77 (90%)	9 (10%)	5 11
14	2S	85/88 (97%)	72 (85%)	13 (15%)	2 4
15	1T	115/127 (91%)	103 (90%)	12 (10%)	5 12
15	2T	113/127 (89%)	105 (93%)	8 (7%)	12 25
16	1U	93/94 (99%)	84 (90%)	9 (10%)	6 14
16	2U	93/94 (99%)	85 (91%)	8 (9%)	8 18
17	1V	80/82 (98%)	77 (96%)	3 (4%)	28 53
17	2V	80/82 (98%)	72 (90%)	8 (10%)	6 13
18	1W	90/92 (98%)	85 (94%)	5 (6%)	17 36
18	2W	90/92 (98%)	83 (92%)	7 (8%)	10 21
19	1X	77/78 (99%)	73 (95%)	4 (5%)	19 39
19	2X	77/78 (99%)	73 (95%)	4 (5%)	19 39
20	1Y	85/91 (93%)	71 (84%)	14 (16%)	2 3
20	2Y	85/91 (93%)	74 (87%)	11 (13%)	3 7
21	1Z	135/179 (75%)	114 (84%)	21 (16%)	2 4
21	2Z	137/179 (76%)	115 (84%)	22 (16%)	2 3
22	10	61/67 (91%)	59 (97%)	2 (3%)	33 59
22	20	61/67 (91%)	53 (87%)	8 (13%)	3 6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
23	11	80/83 (96%)	74 (92%)	6 (8%)	11 23
23	21	80/83 (96%)	75 (94%)	5 (6%)	15 30
24	12	65/67 (97%)	62 (95%)	3 (5%)	23 45
24	22	65/67 (97%)	63 (97%)	2 (3%)	35 62
25	13	51/52 (98%)	47 (92%)	4 (8%)	10 21
25	23	50/52 (96%)	46 (92%)	4 (8%)	10 20
26	14	59/63 (94%)	51 (86%)	8 (14%)	3 6
26	24	53/63 (84%)	40 (76%)	13 (24%)	0 1
27	15	50/52 (96%)	49 (98%)	1 (2%)	50 75
27	25	50/52 (96%)	48 (96%)	2 (4%)	27 51
28	16	51/52 (98%)	44 (86%)	7 (14%)	3 6
28	26	50/52 (96%)	44 (88%)	6 (12%)	4 8
29	17	41/42 (98%)	38 (93%)	3 (7%)	11 24
29	27	41/42 (98%)	37 (90%)	4 (10%)	6 13
30	18	54/55 (98%)	50 (93%)	4 (7%)	11 23
30	28	54/55 (98%)	50 (93%)	4 (7%)	11 23
31	19	34/34 (100%)	33 (97%)	1 (3%)	37 64
31	29	34/34 (100%)	31 (91%)	3 (9%)	8 17
33	1b	192/220 (87%)	157 (82%)	35 (18%)	1 2
33	2b	187/220 (85%)	150 (80%)	37 (20%)	1 2
34	1c	142/188 (76%)	121 (85%)	21 (15%)	2 4
34	2c	140/188 (74%)	117 (84%)	23 (16%)	2 3
35	1d	169/181 (93%)	146 (86%)	23 (14%)	3 6
35	2d	173/181 (96%)	151 (87%)	22 (13%)	3 7
36	1e	113/123 (92%)	99 (88%)	14 (12%)	4 7
36	2e	114/123 (93%)	92 (81%)	22 (19%)	1 2
37	1f	84/90 (93%)	75 (89%)	9 (11%)	5 11
37	2f	85/90 (94%)	76 (89%)	9 (11%)	5 11
38	1g	119/127 (94%)	99 (83%)	20 (17%)	1 3
38	2g	120/127 (94%)	104 (87%)	16 (13%)	3 6
39	1h	114/119 (96%)	102 (90%)	12 (10%)	5 11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
39	2h	114/119 (96%)	96 (84%)	18 (16%)	2 4
40	1i	90/99 (91%)	78 (87%)	12 (13%)	3 6
40	2i	89/99 (90%)	79 (89%)	10 (11%)	5 10
41	1j	66/92 (72%)	59 (89%)	7 (11%)	5 11
41	2j	69/92 (75%)	53 (77%)	16 (23%)	0 1
42	1k	82/99 (83%)	69 (84%)	13 (16%)	2 4
42	2k	83/99 (84%)	74 (89%)	9 (11%)	5 11
43	1l	96/108 (89%)	89 (93%)	7 (7%)	11 24
43	2l	96/108 (89%)	79 (82%)	17 (18%)	1 2
44	1m	93/101 (92%)	85 (91%)	8 (9%)	8 18
44	2m	92/101 (91%)	82 (89%)	10 (11%)	5 10
45	1n	49/50 (98%)	37 (76%)	12 (24%)	0 1
45	2n	49/50 (98%)	40 (82%)	9 (18%)	1 2
46	1o	78/80 (98%)	72 (92%)	6 (8%)	10 22
46	2o	78/80 (98%)	74 (95%)	4 (5%)	20 40
47	1p	69/74 (93%)	54 (78%)	15 (22%)	1 1
47	2p	68/74 (92%)	57 (84%)	11 (16%)	2 3
48	1q	94/97 (97%)	81 (86%)	13 (14%)	3 5
48	2q	94/97 (97%)	85 (90%)	9 (10%)	7 14
49	1r	59/77 (77%)	55 (93%)	4 (7%)	13 27
49	2r	59/77 (77%)	48 (81%)	11 (19%)	1 2
50	1s	69/80 (86%)	61 (88%)	8 (12%)	4 9
50	2s	67/80 (84%)	54 (81%)	13 (19%)	1 2
51	1t	70/82 (85%)	64 (91%)	6 (9%)	8 18
51	2t	70/82 (85%)	64 (91%)	6 (9%)	8 18
52	1u	18/22 (82%)	14 (78%)	4 (22%)	1 1
52	2u	18/22 (82%)	15 (83%)	3 (17%)	2 3
All	All	9295/10064 (92%)	8233 (89%)	1062 (11%)	4 9

5 of 1062 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
39	2h	109	ILE

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Mol	Chain	Res	Type
41	2j	67	THR
39	2h	99	GLU
50	2s	3	ARG
40	1i	88	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 154 such sidechains are listed below:

Mol	Chain	Res	Type
35	2d	77	ASN
44	2m	77	ASN
35	2d	160	GLN
40	2i	3	GLN
50	2s	83	HIS

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2864/2915 (98%)	451 (15%)	39 (1%)
1	2A	2791/2915 (95%)	496 (17%)	34 (1%)
2	1B	119/121 (98%)	18 (15%)	0
2	2B	118/121 (97%)	28 (23%)	0
32	1a	1497/1521 (98%)	254 (16%)	0
32	2a	1501/1521 (98%)	313 (20%)	0
53	1v	12/24 (50%)	2 (16%)	0
53	2v	12/24 (50%)	2 (16%)	0
54	1w	69/76 (90%)	23 (33%)	0
54	1y	72/76 (94%)	27 (37%)	0
54	2w	66/76 (86%)	22 (33%)	0
54	2y	70/76 (92%)	23 (32%)	0
55	1x	74/77 (96%)	7 (9%)	0
55	2x	74/77 (96%)	8 (10%)	0
All	All	9339/9620 (97%)	1674 (17%)	73 (0%)

5 of 1674 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	7	G
1	1A	12	U
1	1A	13	A
1	1A	34	C

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Mol	Chain	Res	Type
1	1A	36	G

5 of 73 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2A	1420	U
1	2A	2689	U
1	2A	1493	C
1	2A	1992	G
1	1A	1608	A

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
1	OMC	2A	1920	1	19,22,23	0.77	0	25,31,34	0.80	0
32	G7M	1a	527	32	20,26,27	1.29	2 (10%)	16,39,42	0.39	0
55	5MC	1x	32	55	19,22,23	1.71	3 (15%)	26,32,35	1.62	5 (19%)
1	2MA	1A	2503	56,1	18,25,26	0.93	0	20,37,40	1.96	4 (20%)
32	5MC	2a	967	32	19,22,23	2.06	3 (15%)	26,32,35	1.20	4 (15%)
54	G7M	2w	46	54	20,26,27	1.45	1 (5%)	16,39,42	0.84	0
32	5MC	1a	967	32	19,22,23	1.63	3 (15%)	26,32,35	1.33	3 (11%)
43	0TD	1l	92	43	8,9,10	4.56	3 (37%)	6,11,13	1.79	2 (33%)
54	4SU	1y	8	54	18,21,22	1.57	6 (33%)	25,30,33	1.41	4 (16%)
54	4SU	2y	8	54	18,21,22	1.58	3 (16%)	25,30,33	2.38	5 (20%)
32	PSU	1a	516	56,32	18,21,22	1.57	3 (16%)	21,30,33	1.94	4 (19%)
32	5MC	2a	1404	32	19,22,23	1.86	3 (15%)	26,32,35	1.52	5 (19%)
1	OMU	1A	2552	56,1	19,22,23	1.24	3 (15%)	25,31,34	2.53	8 (32%)
1	PSU	2A	1917	1	18,21,22	1.34	1 (5%)	21,30,33	1.96	4 (19%)
54	PSU	1w	55	54	18,21,22	1.50	2 (11%)	21,30,33	1.98	3 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
55	5MC	2x	32	55	19,22,23	1.78	3 (15%)	26,32,35	1.35	4 (15%)
54	G7M	1w	46	54	20,26,27	1.41	1 (5%)	16,39,42	0.99	1 (6%)
1	PSU	2A	2605	1	18,21,22	1.27	4 (22%)	21,30,33	2.30	5 (23%)
32	M2G	1a	966	32	20,27,28	1.45	3 (15%)	19,40,43	1.11	3 (15%)
55	31H	2x	76	56	27,34,35	1.09	3 (11%)	22,47,50	2.80	5 (22%)
55	5MU	2x	54	55	19,22,23	1.56	5 (26%)	27,32,35	2.18	8 (29%)
1	5MU	2A	1939	56,1	19,22,23	1.52	5 (26%)	27,32,35	2.68	5 (18%)
54	PSU	2w	32	54	18,21,22	1.39	2 (11%)	21,30,33	2.04	3 (14%)
32	MA6	1a	1518	32	19,26,27	1.03	2 (10%)	18,38,41	2.04	5 (27%)
54	MIA	2y	37	54	17,24,32	0.95	1 (5%)	16,35,47	1.52	2 (12%)
54	4SU	1w	8	54	18,21,22	1.57	4 (22%)	25,30,33	1.91	5 (20%)
54	5MU	2y	54	54	19,22,23	1.64	4 (21%)	27,32,35	2.20	8 (29%)
1	PSU	1A	1917	1	18,21,22	1.33	2 (11%)	21,30,33	2.18	4 (19%)
1	PSU	1A	2605	56,1	18,21,22	1.68	5 (27%)	21,30,33	2.25	5 (23%)
1	5MU	2A	1915	1	19,22,23	1.53	3 (15%)	27,32,35	2.12	7 (25%)
54	PSU	1y	32	54	18,21,22	1.40	2 (11%)	21,30,33	1.88	4 (19%)
32	G7M	2a	527	56,32	20,26,27	1.32	2 (10%)	16,39,42	0.62	0
32	MA6	2a	1518	32	19,26,27	1.03	2 (10%)	18,38,41	1.82	4 (22%)
54	MIA	2w	37	54	19,27,32	1.67	5 (26%)	18,39,47	1.51	4 (22%)
1	2MA	2A	2503	56,1	18,25,26	0.73	0	20,37,40	1.80	4 (20%)
43	0TD	2l	92	43	8,9,10	4.89	2 (25%)	6,11,13	1.10	0
55	PSU	2x	55	55	18,21,22	1.51	3 (16%)	21,30,33	1.87	4 (19%)
1	OMG	1A	2251	56,55,1	19,26,27	1.21	1 (5%)	21,38,41	1.10	2 (9%)
32	5MC	1a	1407	32	19,22,23	2.01	2 (10%)	26,32,35	1.36	3 (11%)
54	MIA	1w	37	54	24,31,32	2.26	3 (12%)	22,44,47	2.96	7 (31%)
1	OMC	1A	1920	1	19,22,23	0.81	1 (5%)	25,31,34	0.94	0
54	PSU	2y	39	54	18,21,22	1.37	2 (11%)	21,30,33	1.99	3 (14%)
54	MIA	1y	37	54	17,24,32	1.15	1 (5%)	16,35,47	1.58	2 (12%)
54	PSU	2y	32	54	18,21,22	1.40	2 (11%)	21,30,33	1.95	3 (14%)
1	5MC	1A	1962	56,1	19,22,23	1.80	3 (15%)	26,32,35	1.19	4 (15%)
1	5MC	2A	1942	1	19,22,23	1.64	3 (15%)	26,32,35	1.15	2 (7%)
32	PSU	2a	516	56,32	18,21,22	1.31	1 (5%)	21,30,33	1.99	4 (19%)
32	4OC	2a	1402	56,32	20,23,24	0.89	1 (5%)	25,32,35	1.10	1 (4%)
54	5MU	2w	54	54	19,22,23	1.36	4 (21%)	27,32,35	1.55	5 (18%)
54	G7M	1y	46	54	20,26,27	1.38	2 (10%)	16,39,42	0.73	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
32	2MG	2a	1207	56,32	18,26,27	0.99	2 (11%)	16,38,41	1.49	4 (25%)
32	2MG	1a	1207	56,32	18,26,27	1.05	1 (5%)	16,38,41	1.86	4 (25%)
55	4SU	2x	8	55	18,21,22	1.91	5 (27%)	25,30,33	1.42	6 (24%)
54	PSU	1w	32	54	18,21,22	1.39	2 (11%)	21,30,33	2.00	3 (14%)
1	OMG	2A	2251	56,55,1	19,26,27	1.09	2 (10%)	21,38,41	1.18	2 (9%)
32	MA6	2a	1519	32	19,26,27	1.04	2 (10%)	18,38,41	1.92	3 (16%)
55	PSU	1x	55	55	18,21,22	1.41	2 (11%)	21,30,33	1.79	4 (19%)
55	31H	1x	76	56	27,34,35	0.95	1 (3%)	22,47,50	2.52	5 (22%)
54	PSU	2y	55	54	18,21,22	1.45	2 (11%)	21,30,33	2.01	3 (14%)
54	G7M	2y	46	54	20,26,27	1.42	1 (5%)	16,39,42	0.79	0
1	5MU	1A	1939	56,1	19,22,23	1.75	6 (31%)	27,32,35	2.59	6 (22%)
54	PSU	2w	55	54	18,21,22	1.50	3 (16%)	21,30,33	1.90	4 (19%)
32	UR3	2a	1498	56,32	19,22,23	1.04	2 (10%)	26,32,35	2.03	4 (15%)
54	PSU	1w	39	54	18,21,22	1.30	2 (11%)	21,30,33	1.90	3 (14%)
32	5MC	1a	1404	32	19,22,23	1.54	3 (15%)	26,32,35	1.59	4 (15%)
54	PSU	2w	39	54	18,21,22	1.39	2 (11%)	21,30,33	2.12	3 (14%)
32	5MC	2a	1407	32	19,22,23	1.33	3 (15%)	26,32,35	1.42	4 (15%)
1	OMU	2A	2552	56,1	19,22,23	1.23	4 (21%)	25,31,34	1.97	5 (20%)
54	5MU	1w	54	54	19,22,23	1.42	5 (26%)	27,32,35	2.16	6 (22%)
54	5MU	1y	54	54	19,22,23	1.59	6 (31%)	27,32,35	1.49	6 (22%)
32	MA6	1a	1519	32	19,26,27	1.04	1 (5%)	18,38,41	1.97	3 (16%)
55	4SU	1x	8	55	18,21,22	2.41	5 (27%)	25,30,33	2.11	9 (36%)
55	5MU	1x	54	55	19,22,23	1.54	5 (26%)	27,32,35	1.89	6 (22%)
1	5MC	1A	1942	1	19,22,23	1.53	3 (15%)	26,32,35	1.96	8 (30%)
1	PSU	2A	1911	1	18,21,22	1.44	2 (11%)	21,30,33	1.88	4 (19%)
32	M2G	2a	966	32	20,27,28	1.41	3 (15%)	19,40,43	1.19	2 (10%)
32	4OC	1a	1402	32	20,23,24	0.82	0	25,32,35	1.14	2 (8%)
54	4SU	2w	8	54	18,21,22	1.49	4 (22%)	25,30,33	1.99	6 (24%)
54	PSU	1y	55	54	18,21,22	1.46	1 (5%)	21,30,33	1.94	4 (19%)
54	PSU	1y	39	54	18,21,22	1.53	2 (11%)	21,30,33	1.74	4 (19%)
1	PSU	1A	1911	1	18,21,22	1.52	3 (16%)	21,30,33	1.70	3 (14%)
32	UR3	1a	1498	32	19,22,23	0.89	1 (5%)	26,32,35	1.60	4 (15%)
1	5MC	2A	1962	56,1	19,22,23	1.56	2 (10%)	26,32,35	1.44	5 (19%)
32	5MC	2a	1400	32	19,22,23	1.97	2 (10%)	26,32,35	1.31	4 (15%)
32	5MC	1a	1400	32	19,22,23	1.54	3 (15%)	26,32,35	1.25	3 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	5MU	1A	1915	1	19,22,23	1.51	4 (21%)	27,32,35	2.19	10 (37%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	OMC	2A	1920	1	-	0/9/27/28	0/2/2/2
32	G7M	1a	527	32	-	3/3/25/26	0/3/3/3
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
1	2MA	1A	2503	56,1	-	1/3/25/26	0/3/3/3
32	5MC	2a	967	32	-	1/7/25/26	0/2/2/2
54	G7M	2w	46	54	-	2/3/25/26	0/3/3/3
32	5MC	1a	967	32	-	1/7/25/26	0/2/2/2
43	0TD	1l	92	43	-	3/7/12/14	-
54	4SU	1y	8	54	-	3/7/25/26	0/2/2/2
54	4SU	2y	8	54	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	56,32	-	1/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
1	OMU	1A	2552	56,1	-	0/9/27/28	0/2/2/2
1	PSU	2A	1917	1	-	0/7/25/26	0/2/2/2
54	PSU	1w	55	54	-	2/7/25/26	0/2/2/2
55	5MC	2x	32	55	-	1/7/25/26	0/2/2/2
54	G7M	1w	46	54	-	1/3/25/26	0/3/3/3
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	0/7/29/30	0/3/3/3
55	31H	2x	76	56	-	5/18/40/41	0/3/3/3
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
1	5MU	2A	1939	56,1	-	0/7/25/26	0/2/2/2
54	PSU	2w	32	54	-	2/7/25/26	0/2/2/2
32	MA6	1a	1518	32	-	0/7/29/30	0/3/3/3
54	MIA	2y	37	54	-	0/3/25/34	0/3/3/3
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
54	5MU	2y	54	54	-	3/7/25/26	0/2/2/2
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
1	PSU	1A	2605	56,1	-	0/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	2/7/25/26	0/2/2/2
54	PSU	1y	32	54	-	0/7/25/26	0/2/2/2
32	G7M	2a	527	56,32	-	3/3/25/26	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	MA6	2a	1518	32	-	1/7/29/30	0/3/3/3
54	MIA	2w	37	54	-	2/7/29/34	0/3/3/3
1	2MA	2A	2503	56,1	-	2/3/25/26	0/3/3/3
43	0TD	2l	92	43	-	2/7/12/14	-
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	56,55,1	-	0/5/27/28	0/3/3/3
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
54	MIA	1w	37	54	-	3/11/33/34	0/3/3/3
1	OMC	1A	1920	1	-	1/9/27/28	0/2/2/2
54	PSU	2y	39	54	-	0/7/25/26	0/2/2/2
54	MIA	1y	37	54	-	0/3/25/34	0/3/3/3
54	PSU	2y	32	54	-	2/7/25/26	0/2/2/2
1	5MC	1A	1962	56,1	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
32	PSU	2a	516	56,32	-	0/7/25/26	0/2/2/2
32	4OC	2a	1402	56,32	-	2/9/29/30	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
54	G7M	1y	46	54	-	2/3/25/26	0/3/3/3
32	2MG	2a	1207	56,32	-	2/5/27/28	0/3/3/3
32	2MG	1a	1207	56,32	-	2/5/27/28	0/3/3/3
55	4SU	2x	8	55	-	1/7/25/26	0/2/2/2
54	PSU	1w	32	54	-	0/7/25/26	0/2/2/2
1	OMG	2A	2251	56,55,1	-	0/5/27/28	0/3/3/3
32	MA6	2a	1519	32	-	3/7/29/30	0/3/3/3
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
55	31H	1x	76	56	-	6/18/40/41	0/3/3/3
54	PSU	2y	55	54	-	2/7/25/26	0/2/2/2
54	G7M	2y	46	54	-	0/3/25/26	0/3/3/3
1	5MU	1A	1939	56,1	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
32	UR3	2a	1498	56,32	-	0/7/25/26	0/2/2/2
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	32	-	0/7/25/26	0/2/2/2
1	OMU	2A	2552	56,1	-	0/9/27/28	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
54	5MU	1y	54	54	-	2/7/25/26	0/2/2/2
32	MA6	1a	1519	32	-	3/7/29/30	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
55	5MU	1x	54	55	-	0/7/25/26	0/2/2/2
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/7/29/30	0/3/3/3
32	4OC	1a	1402	32	-	2/9/29/30	0/2/2/2
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
54	PSU	1y	55	54	-	2/7/25/26	0/2/2/2
54	PSU	1y	39	54	-	0/7/25/26	0/2/2/2
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
32	UR3	1a	1498	32	-	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	1400	32	-	0/7/25/26	0/2/2/2
32	5MC	1a	1400	32	-	1/7/25/26	0/2/2/2
1	5MU	1A	1915	1	-	0/7/25/26	0/2/2/2

The worst 5 of 222 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-13.36	1.68	1.82
43	1l	92	0TD	CB-SB	-11.95	1.70	1.82
32	2a	967	5MC	C5-C4	7.94	1.50	1.44
32	1a	1407	5MC	C5-C4	7.87	1.50	1.44
32	2a	1400	5MC	C5-C4	7.47	1.49	1.44

The worst 5 of 333 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	37	MIA	C12-C13-C14	-10.87	107.50	127.01
55	2x	76	31H	C4'-O4'-C1'	-8.74	101.92	109.92
32	2a	1498	UR3	C4-N3-C2	-8.07	118.09	124.58
1	2A	1939	5MU	C5-C4-N3	7.37	121.73	115.32
1	1A	1939	5MU	C5-C4-N3	7.03	121.43	115.32

There are no chirality outliers.

5 of 77 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	1207	2MG	N1-C2-N2-CM2
32	1a	1207	2MG	N3-C2-N2-CM2
32	1a	1519	MA6	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
43	1l	92	0TD	O-C-CA-CB
54	1w	37	MIA	C12-C13-C14-C15

There are no ring outliers.

44 monomers are involved in 75 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
55	1x	32	5MC	1	0
1	1A	2503	2MA	1	0
32	2a	967	5MC	1	0
54	1y	8	4SU	2	0
54	2y	8	4SU	1	0
32	2a	1404	5MC	1	0
1	1A	2552	OMU	1	0
54	1w	55	PSU	1	0
55	2x	32	5MC	1	0
54	1w	46	G7M	1	0
55	2x	76	31H	3	0
1	2A	1939	5MU	2	0
32	1a	1518	MA6	3	0
54	2y	37	MIA	1	0
54	1w	8	4SU	1	0
54	1y	32	PSU	1	0
32	2a	1518	MA6	5	0
1	2A	2503	2MA	1	0
43	2l	92	0TD	4	0
55	2x	55	PSU	1	0
1	1A	2251	OMG	1	0
54	2y	39	PSU	1	0
54	1y	37	MIA	1	0
54	2y	32	PSU	1	0
32	2a	1402	4OC	2	0
54	2w	54	5MU	1	0
54	1y	46	G7M	1	0
32	2a	1207	2MG	7	0
32	1a	1207	2MG	2	0
1	2A	2251	OMG	1	0
32	2a	1519	MA6	3	0
55	1x	76	31H	3	0
54	2y	55	PSU	3	0
54	2y	46	G7M	1	0
54	1w	39	PSU	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	2A	2552	OMU	1	0
54	1w	54	5MU	1	0
32	1a	1519	MA6	3	0
55	1x	8	4SU	2	0
32	2a	966	M2G	2	0
32	1a	1402	4OC	3	0
54	2w	8	4SU	3	0
54	1y	55	PSU	1	0
32	2a	1400	5MC	1	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2808 ligands modelled in this entry, 2804 are monoatomic - leaving 4 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
60	SF4	2d	302	35	0,12,12	-	-	-		
58	A1A1J	1A	4103	56	34,37,37	1.90	8 (23%)	34,53,53	1.17	2 (5%)
60	SF4	1d	501	35	0,12,12	-	-	-		
58	A1A1J	2A	3877	-	34,37,37	1.26	3 (8%)	34,53,53	1.01	3 (8%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
60	SF4	2d	302	35	-	-	0/6/5/5
58	A1A1J	1A	4103	56	-	2/28/71/71	0/3/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
60	SF4	1d	501	35	-	-	0/6/5/5
58	A1A1J	2A	3877	-	-	2/28/71/71	0/3/4/4

The worst 5 of 11 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	2A	3877	A1A1J	CAM-CBF	-4.68	1.40	1.51
58	1A	4103	A1A1J	CD2-CAZ	-4.56	1.49	1.53
58	1A	4103	A1A1J	CAM-CBF	-4.19	1.41	1.51
58	1A	4103	A1A1J	CAE-CAF	-3.59	1.45	1.53
58	1A	4103	A1A1J	CAY-CAZ	3.51	1.59	1.53

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
58	1A	4103	A1A1J	OAA-CAF-CAE	-3.15	104.02	109.70
58	1A	4103	A1A1J	CBC-CBB-CAZ	-2.99	110.87	116.68
58	2A	3877	A1A1J	OAA-CAB-CAC	2.77	111.86	107.94
58	2A	3877	A1A1J	CBC-CBB-CAZ	-2.62	111.60	116.68
58	2A	3877	A1A1J	CAD-CAC-CAB	-2.29	104.48	109.68

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
58	1A	4103	A1A1J	O-C-CA-CB
58	2A	3877	A1A1J	O-C-CA-CB
58	1A	4103	A1A1J	NAL-C-CA-CB
58	2A	3877	A1A1J	NAL-C-CA-CB

There are no ring outliers.

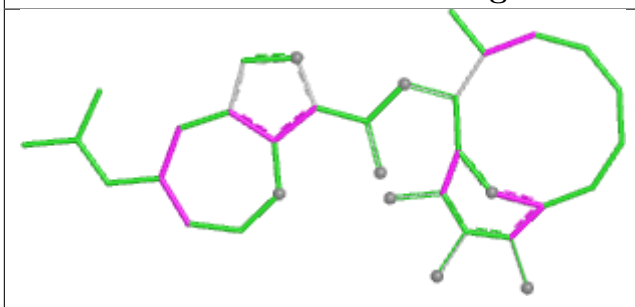
3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
58	1A	4103	A1A1J	1	0
60	1d	501	SF4	2	0
58	2A	3877	A1A1J	2	0

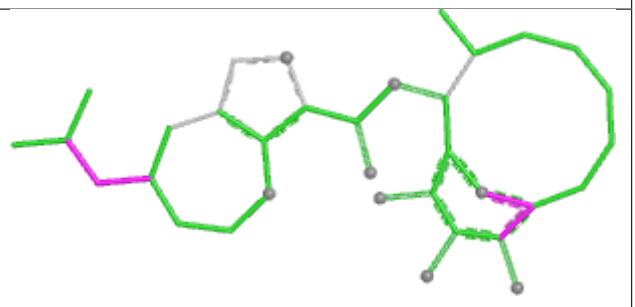
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will

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.

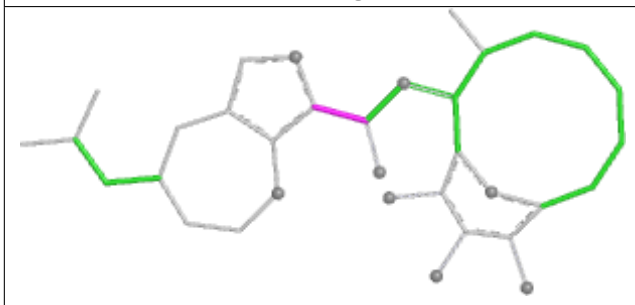
Ligand A1A1J 1A 4103



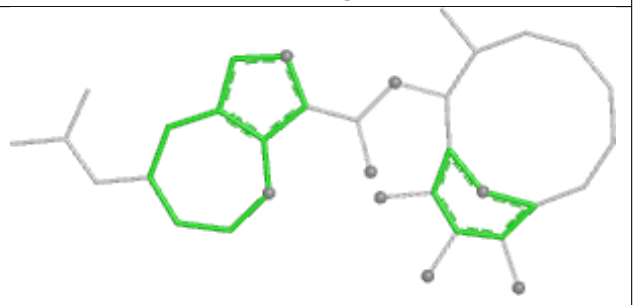
Bond lengths



Bond angles

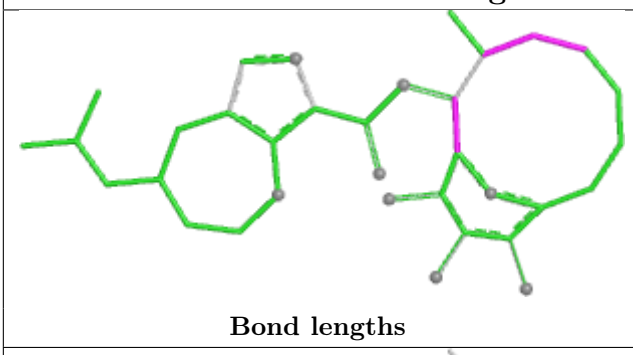


Torsions

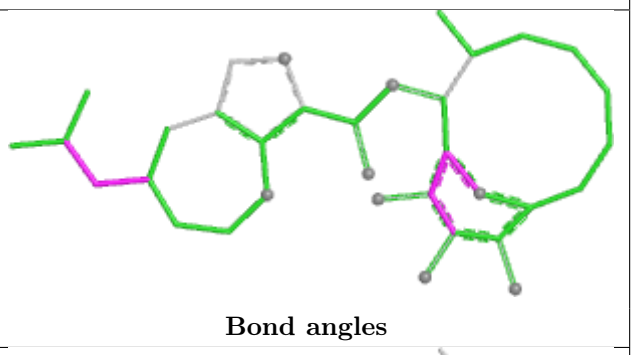


Rings

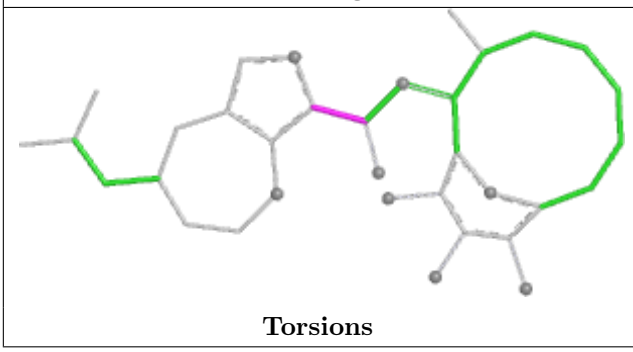
Ligand A1A1J 2A 3877



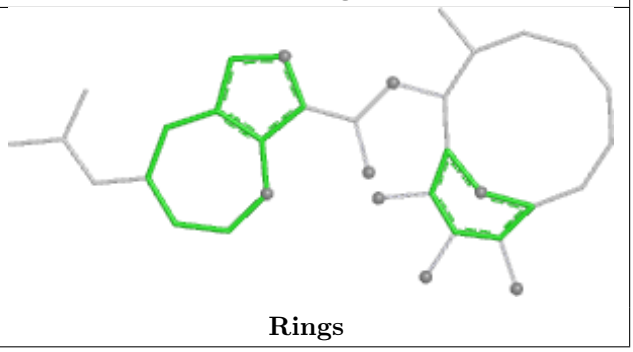
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
55	2x	1
55	1x	1
7	1H	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2x	75:C	O3'	76:31H	P	2.47
1	1x	75:C	O3'	76:31H	P	2.35
1	1H	53:GLU	C	54:ARG	N	1.19

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%)	-0.60	128 (4%) 39 36	20, 37, 90, 102	0
1	2A	2789/2915 (95%)	0.09	120 (4%) 40 37	35, 61, 90, 102	0
2	1B	120/121 (99%)	-0.38	0 100 100	30, 52, 64, 88	0
2	2B	120/121 (99%)	1.11	8 (6%) 25 23	64, 82, 87, 94	0
3	1D	275/276 (99%)	-0.33	2 (0%) 84 81	21, 38, 50, 78	0
3	2D	275/276 (99%)	0.28	6 (2%) 62 59	36, 54, 65, 82	0
4	1E	204/206 (99%)	-0.32	0 100 100	19, 40, 60, 75	0
4	2E	204/206 (99%)	0.53	5 (2%) 58 55	39, 62, 74, 82	0
5	1F	203/210 (96%)	-0.19	2 (0%) 79 76	20, 42, 67, 82	0
5	2F	203/210 (96%)	0.48	8 (3%) 44 40	38, 68, 78, 81	0
6	1G	181/182 (99%)	0.46	6 (3%) 49 46	40, 59, 73, 81	0
6	2G	181/182 (99%)	1.56	50 (27%) 2 2	71, 80, 85, 88	0
7	1H	174/180 (96%)	0.16	3 (1%) 69 65	38, 53, 65, 72	0
7	2H	174/180 (96%)	1.62	53 (30%) 1 1	73, 82, 91, 94	0
8	1I	146/148 (98%)	0.80	6 (4%) 42 39	47, 73, 80, 84	0
8	2I	146/148 (98%)	1.06	15 (10%) 13 12	52, 74, 82, 91	0
9	1N	140/140 (100%)	-0.29	2 (1%) 73 70	24, 38, 59, 75	0
9	2N	140/140 (100%)	0.82	8 (5%) 30 28	52, 69, 78, 84	0
10	1O	122/122 (100%)	-0.10	1 (0%) 82 79	30, 41, 58, 64	0
10	2O	122/122 (100%)	0.57	2 (1%) 70 67	53, 62, 72, 77	0
11	1P	149/150 (99%)	-0.02	1 (0%) 84 81	21, 47, 65, 72	0
11	2P	149/150 (99%)	0.72	8 (5%) 32 30	45, 68, 82, 89	0
12	1Q	141/141 (100%)	-0.11	1 (0%) 84 81	27, 42, 57, 72	0
12	2Q	141/141 (100%)	1.31	19 (13%) 8 7	59, 72, 80, 84	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	1R	118/118 (100%)	-0.40	0 100 100	25, 35, 46, 55	0
13	2R	118/118 (100%)	0.27	0 100 100	41, 54, 64, 74	0
14	1S	110/112 (98%)	0.16	1 (0%) 81 78	39, 51, 63, 65	0
14	2S	110/112 (98%)	1.45	26 (23%) 2 3	68, 77, 81, 85	0
15	1T	131/146 (89%)	-0.03	3 (2%) 61 58	30, 44, 66, 71	0
15	2T	131/146 (89%)	0.50	2 (1%) 71 68	56, 65, 75, 79	0
16	1U	116/118 (98%)	-0.59	1 (0%) 81 78	22, 30, 43, 64	0
16	2U	116/118 (98%)	0.67	2 (1%) 69 65	46, 66, 78, 83	0
17	1V	101/101 (100%)	-0.46	0 100 100	21, 38, 54, 68	0
17	2V	101/101 (100%)	0.90	3 (2%) 52 49	46, 74, 80, 85	0
18	1W	112/113 (99%)	-0.46	1 (0%) 81 78	23, 31, 49, 73	0
18	2W	112/113 (99%)	0.26	2 (1%) 67 64	39, 53, 69, 83	0
19	1X	95/96 (98%)	-0.12	3 (3%) 50 47	28, 38, 64, 82	0
19	2X	95/96 (98%)	0.72	7 (7%) 22 20	48, 62, 74, 84	0
20	1Y	107/110 (97%)	0.22	3 (2%) 55 51	38, 51, 69, 77	0
20	2Y	107/110 (97%)	1.28	20 (18%) 4 4	59, 73, 83, 87	0
21	1Z	154/206 (74%)	0.65	14 (9%) 16 15	37, 62, 81, 86	0
21	2Z	160/206 (77%)	1.94	64 (40%) 1 1	74, 81, 87, 89	0
22	10	77/85 (90%)	-0.00	2 (2%) 57 54	27, 37, 54, 63	0
22	20	77/85 (90%)	1.35	15 (19%) 4 4	54, 69, 77, 79	0
23	11	97/98 (98%)	0.11	1 (1%) 79 76	28, 45, 68, 74	0
23	21	97/98 (98%)	0.50	4 (4%) 42 39	41, 58, 73, 80	0
24	12	70/72 (97%)	0.17	0 100 100	37, 50, 61, 71	0
24	22	70/72 (97%)	0.83	7 (10%) 14 13	61, 71, 76, 80	0
25	13	59/60 (98%)	-0.35	1 (1%) 69 65	25, 34, 62, 75	0
25	23	59/60 (98%)	0.79	5 (8%) 18 17	61, 69, 79, 84	0
26	14	69/71 (97%)	0.96	11 (15%) 6 6	55, 72, 84, 89	0
26	24	69/71 (97%)	1.82	22 (31%) 1 1	74, 85, 90, 95	0
27	15	59/60 (98%)	-0.53	0 100 100	20, 31, 50, 53	0
27	25	59/60 (98%)	0.29	2 (3%) 48 45	43, 54, 67, 81	0
28	16	53/54 (98%)	-0.16	0 100 100	35, 43, 56, 65	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	26	53/54 (98%)	0.69	0 100 100	57, 65, 75, 78	0
29	17	48/49 (97%)	-0.22	4 (8%) 19 18	22, 30, 64, 68	0
29	27	48/49 (97%)	0.24	4 (8%) 19 18	35, 44, 63, 71	0
30	18	64/65 (98%)	-0.47	0 100 100	26, 34, 41, 55	0
30	28	64/65 (98%)	0.65	1 (1%) 70 67	50, 60, 67, 71	0
31	19	37/37 (100%)	-0.29	0 100 100	32, 40, 55, 59	0
31	29	37/37 (100%)	1.50	8 (21%) 3 3	66, 72, 81, 84	0
32	1a	1488/1521 (97%)	0.35	52 (3%) 47 44	38, 70, 91, 104	0
32	2a	1491/1521 (98%)	0.92	218 (14%) 7 7	51, 77, 94, 103	0
33	1b	231/256 (90%)	1.14	34 (14%) 7 7	67, 77, 86, 90	0
33	2b	231/256 (90%)	1.99	107 (46%) 1 1	73, 84, 88, 91	0
34	1c	206/239 (86%)	1.04	23 (11%) 11 11	64, 75, 82, 86	0
34	2c	206/239 (86%)	2.06	94 (45%) 1 1	74, 83, 88, 95	0
35	1d	208/209 (99%)	1.07	19 (9%) 16 15	58, 72, 81, 88	0
35	2d	208/209 (99%)	0.81	10 (4%) 36 34	56, 69, 76, 83	0
36	1e	148/162 (91%)	0.63	3 (2%) 64 62	54, 66, 74, 80	0
36	2e	148/162 (91%)	1.62	47 (31%) 1 1	65, 77, 83, 85	0
37	1f	100/101 (99%)	0.69	4 (4%) 43 39	58, 69, 76, 78	0
37	2f	100/101 (99%)	0.95	6 (6%) 29 27	65, 73, 79, 83	0
38	1g	155/156 (99%)	0.89	18 (11%) 11 10	62, 71, 82, 84	0
38	2g	155/156 (99%)	1.39	34 (21%) 3 3	69, 79, 85, 90	0
39	1h	137/138 (99%)	0.70	2 (1%) 71 68	56, 68, 74, 80	0
39	2h	137/138 (99%)	1.41	28 (20%) 3 3	69, 77, 84, 87	0
40	1i	127/128 (99%)	1.54	34 (26%) 2 2	60, 77, 83, 85	0
40	2i	127/128 (99%)	2.34	73 (57%) 0 0	73, 84, 88, 90	0
41	1j	97/105 (92%)	1.60	31 (31%) 1 1	63, 79, 85, 87	0
41	2j	96/105 (91%)	2.64	67 (69%) 0 0	79, 85, 89, 91	0
42	1k	114/129 (88%)	0.70	7 (6%) 28 26	46, 65, 76, 80	0
42	2k	114/129 (88%)	1.27	19 (16%) 5 5	58, 75, 82, 85	0
43	1l	121/132 (91%)	0.52	5 (4%) 42 39	49, 61, 71, 76	0
43	2l	121/132 (91%)	1.28	14 (11%) 11 10	64, 73, 82, 87	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	1m	123/126 (97%)	0.81	8 (6%) 26 24	59, 71, 77, 79	0
44	2m	122/126 (96%)	2.19	60 (49%) 0 0	74, 82, 86, 87	0
45	1n	60/61 (98%)	1.15	4 (6%) 25 23	66, 72, 79, 84	0
45	2n	60/61 (98%)	2.95	46 (76%) 0 0	76, 85, 89, 91	0
46	1o	88/89 (98%)	0.70	8 (9%) 16 15	49, 66, 73, 78	0
46	2o	88/89 (98%)	1.22	10 (11%) 11 10	63, 76, 82, 86	0
47	1p	82/88 (93%)	1.20	9 (10%) 12 11	62, 72, 77, 85	0
47	2p	82/88 (93%)	1.00	7 (8%) 18 17	59, 67, 76, 78	0
48	1q	99/105 (94%)	0.82	3 (3%) 52 49	56, 67, 77, 79	0
48	2q	99/105 (94%)	1.08	9 (9%) 16 15	65, 74, 81, 82	0
49	1r	68/88 (77%)	0.49	4 (5%) 29 27	57, 67, 77, 79	0
49	2r	68/88 (77%)	0.92	4 (5%) 29 27	66, 74, 79, 83	0
50	1s	83/93 (89%)	0.93	7 (8%) 18 17	67, 74, 81, 84	0
50	2s	83/93 (89%)	2.26	50 (60%) 0 0	78, 85, 90, 94	0
51	1t	96/106 (90%)	0.98	11 (11%) 11 10	59, 71, 78, 81	0
51	2t	96/106 (90%)	0.82	10 (10%) 13 12	60, 71, 80, 82	0
52	1u	23/27 (85%)	1.33	3 (13%) 9 8	66, 69, 74, 78	0
52	2u	23/27 (85%)	2.21	14 (60%) 0 0	77, 82, 85, 87	0
53	1v	13/24 (54%)	1.05	2 (15%) 6 6	52, 69, 83, 94	0
53	2v	13/24 (54%)	2.02	6 (46%) 1 1	75, 84, 94, 99	0
54	1w	64/76 (84%)	1.28	9 (14%) 7 7	71, 91, 99, 102	0
54	1y	67/76 (88%)	1.26	12 (17%) 4 4	39, 89, 96, 98	0
54	2w	62/76 (81%)	2.23	35 (56%) 0 0	83, 97, 101, 106	0
54	2y	66/76 (86%)	1.51	14 (21%) 3 3	60, 95, 98, 101	0
55	1x	71/77 (92%)	0.14	0 100 100	30, 64, 81, 87	0
55	2x	71/77 (92%)	0.97	2 (2%) 55 51	53, 82, 90, 98	0
All	All	20855/21748 (95%)	0.47	1989 (9%) 15 14	19, 66, 88, 106	0

The worst 5 of 1989 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
45	2n	2	ALA	7.9
44	2m	102	ARG	6.7

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Mol	Chain	Res	Type	RSRZ
45	1n	2	ALA	6.7
44	2m	123	ALA	6.6
21	1Z	146	ILE	6.2

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	G7M	2w	46	24/25	0.35	0.20	75,97,102,107	0
54	G7M	1w	46	24/25	0.42	0.17	82,93,102,123	0
54	PSU	2y	55	20/21	0.53	0.17	92,98,106,114	0
54	5MU	2y	54	21/22	0.60	0.19	91,96,102,117	0
54	G7M	2y	46	24/25	0.61	0.15	86,94,97,116	0
54	PSU	2w	55	20/21	0.62	0.14	91,95,108,108	0
54	5MU	2w	54	21/22	0.63	0.15	87,91,98,104	0
54	5MU	1y	54	21/22	0.64	0.17	85,90,100,113	0
54	4SU	2w	8	20/21	0.64	0.17	92,97,105,114	0
54	PSU	1y	55	20/21	0.67	0.16	88,94,99,114	0
54	PSU	2y	32	20/21	0.69	0.14	81,87,95,99	0
54	MIA	2y	37	22/30	0.70	0.15	78,88,98,111	0
54	G7M	1y	46	24/25	0.71	0.16	84,91,97,107	0
54	4SU	2y	8	20/21	0.72	0.13	88,94,104,114	0
54	4SU	1y	8	20/21	0.76	0.13	88,92,101,103	0
54	4SU	1w	8	20/21	0.77	0.12	83,89,99,100	0
54	PSU	2w	32	20/21	0.78	0.15	80,89,98,108	0
32	2MG	2a	1207	24/25	0.79	0.16	84,89,92,101	0
54	PSU	1w	55	20/21	0.80	0.12	78,88,91,92	0
55	PSU	2x	55	20/21	0.80	0.13	73,83,89,90	0
54	PSU	2y	39	20/21	0.81	0.13	78,85,95,106	0
54	MIA	1y	37	22/30	0.83	0.15	76,81,88,96	0
55	4SU	2x	8	20/21	0.83	0.14	86,89,92,93	0
1	5MU	2A	1915	21/22	0.84	0.14	72,78,82,91	0
54	PSU	1y	32	20/21	0.84	0.13	77,83,96,99	0
55	5MU	2x	54	21/22	0.86	0.12	77,85,88,92	0
54	PSU	1y	39	20/21	0.86	0.13	72,80,83,88	0
54	PSU	1w	32	20/21	0.86	0.13	71,75,86,89	0
54	5MU	1w	54	21/22	0.87	0.12	67,82,85,87	0
32	PSU	2a	516	20/21	0.88	0.14	71,78,83,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	G7M	2a	527	24/25	0.88	0.13	67,73,79,80	0
55	5MC	2x	32	21/22	0.88	0.15	68,77,82,89	0
54	MIA	2w	37	25/30	0.88	0.13	75,83,89,99	0
1	PSU	2A	1917	20/21	0.88	0.12	63,73,81,81	0
32	5MC	2a	1400	21/22	0.88	0.17	75,81,85,89	0
32	5MC	2a	1404	21/22	0.89	0.13	55,65,70,73	0
32	M2G	2a	966	25/26	0.89	0.16	69,76,86,91	0
32	5MC	2a	967	21/22	0.89	0.15	72,76,82,95	0
54	MIA	1w	37	29/30	0.90	0.14	61,70,74,77	0
1	PSU	2A	1911	20/21	0.91	0.12	61,68,71,74	0
54	PSU	2w	39	20/21	0.91	0.11	81,85,91,94	0
55	PSU	1x	55	20/21	0.91	0.10	60,64,77,77	0
32	2MG	1a	1207	24/25	0.91	0.11	69,76,79,81	0
32	MA6	2a	1518	24/25	0.92	0.13	56,71,79,79	0
43	0TD	2l	92	10/11	0.92	0.10	69,73,79,81	0
32	4OC	2a	1402	22/23	0.92	0.13	52,70,77,78	0
55	5MU	1x	54	21/22	0.92	0.10	61,67,71,77	0
54	PSU	1w	39	20/21	0.93	0.09	66,71,79,80	0
1	OMC	2A	1920	21/22	0.93	0.12	61,70,74,78	0
32	5MC	2a	1407	21/22	0.93	0.11	61,65,71,77	0
32	UR3	2a	1498	21/22	0.93	0.13	58,65,70,74	0
32	PSU	1a	516	20/21	0.94	0.10	60,65,70,72	0
32	MA6	2a	1519	24/25	0.94	0.13	54,70,76,79	0
55	31H	2x	76	32/33	0.94	0.11	43,56,66,75	0
1	5MU	1A	1915	21/22	0.94	0.10	50,57,62,66	0
43	0TD	1l	92	10/11	0.94	0.11	60,62,66,84	0
32	M2G	1a	966	25/26	0.95	0.10	48,55,63,71	0
55	5MC	1x	32	21/22	0.95	0.10	55,59,65,73	0
32	5MC	1a	967	21/22	0.95	0.10	52,57,62,72	0
1	5MC	2A	1942	21/22	0.95	0.10	52,64,66,69	0
32	G7M	1a	527	24/25	0.96	0.09	52,59,61,64	0
1	5MC	1A	1942	21/22	0.96	0.08	32,38,41,52	0
32	5MC	1a	1400	21/22	0.96	0.10	47,56,60,62	0
32	4OC	1a	1402	22/23	0.96	0.09	44,49,53,61	0
1	5MU	2A	1939	21/22	0.96	0.09	35,44,50,54	0
55	4SU	1x	8	20/21	0.96	0.08	56,64,69,69	0
1	5MC	2A	1962	21/22	0.96	0.09	39,51,61,68	0
1	OMG	2A	2251	24/25	0.96	0.09	43,49,53,61	0
1	PSU	1A	1917	20/21	0.97	0.07	45,56,62,63	0
32	5MC	1a	1404	21/22	0.97	0.09	39,46,49,54	0
32	5MC	1a	1407	21/22	0.97	0.08	38,43,45,49	0
32	MA6	1a	1519	24/25	0.97	0.09	38,45,50,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	31H	1x	76	32/33	0.97	0.08	21,28,41,52	10
1	2MA	2A	2503	23/24	0.97	0.08	36,41,44,46	0
1	OMU	2A	2552	21/22	0.97	0.09	41,50,53,60	0
1	PSU	2A	2605	20/21	0.97	0.07	35,42,49,53	0
1	5MC	1A	1962	21/22	0.98	0.07	32,38,41,48	0
1	OMG	1A	2251	24/25	0.98	0.05	22,26,29,30	0
1	OMU	1A	2552	21/22	0.98	0.06	25,28,31,35	0
1	PSU	1A	2605	20/21	0.98	0.06	20,24,31,34	0
1	OMC	1A	1920	21/22	0.98	0.07	40,47,50,51	0
1	5MU	1A	1939	21/22	0.98	0.06	20,29,32,32	0
32	UR3	1a	1498	21/22	0.98	0.08	42,46,50,53	0
32	MA6	1a	1518	24/25	0.98	0.08	37,43,48,48	0
1	PSU	1A	1911	20/21	0.98	0.07	38,50,54,54	0
1	2MA	1A	2503	23/24	0.99	0.05	17,22,24,25	0

6.3 Carbohydrates (i)

There are no oligosaccharides 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	2w	105	1/1	0.37	0.18	95,95,95,95	0
56	MG	1A	4009	1/1	0.52	0.14	77,77,77,77	0
56	MG	1A	4037	1/1	0.53	0.16	71,71,71,71	0
56	MG	2w	107	1/1	0.53	0.20	89,89,89,89	0
56	MG	1B	230	1/1	0.55	0.21	87,87,87,87	0
56	MG	2A	3499	1/1	0.59	0.24	74,74,74,74	0
56	MG	2a	1608	1/1	0.59	0.40	91,91,91,91	0
56	MG	2A	3375	1/1	0.60	0.26	97,97,97,97	0
56	MG	2A	3746	1/1	0.62	0.23	96,96,96,96	0
56	MG	1A	3795	1/1	0.62	0.23	87,87,87,87	0
56	MG	2a	1751	1/1	0.62	0.17	84,84,84,84	0
56	MG	2A	3342	1/1	0.62	0.31	79,79,79,79	0
56	MG	2A	3643	1/1	0.62	0.32	72,72,72,72	0
56	MG	2a	1624	1/1	0.63	0.31	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3110	1/1	0.64	0.30	90,90,90,90	0
56	MG	2A	3645	1/1	0.64	0.20	72,72,72,72	0
56	MG	2A	3228	1/1	0.64	0.25	74,74,74,74	0
56	MG	2A	3287	1/1	0.64	0.20	82,82,82,82	0
56	MG	2a	1685	1/1	0.65	0.33	81,81,81,81	0
56	MG	2A	3363	1/1	0.65	0.41	86,86,86,86	0
56	MG	2A	3683	1/1	0.66	0.23	77,77,77,77	0
56	MG	1A	4090	1/1	0.66	0.25	69,69,69,69	0
56	MG	1A	3805	1/1	0.66	0.26	76,76,76,76	0
56	MG	1W	207	1/1	0.66	0.28	45,45,45,45	0
56	MG	1B	229	1/1	0.67	0.16	74,74,74,74	0
56	MG	1A	4008	1/1	0.68	0.14	73,73,73,73	0
56	MG	2G	201	1/1	0.68	0.24	78,78,78,78	0
56	MG	2A	3666	1/1	0.69	0.26	76,76,76,76	0
56	MG	1A	3360	1/1	0.69	0.22	71,71,71,71	0
56	MG	2a	1610	1/1	0.69	0.33	81,81,81,81	0
56	MG	2A	3224	1/1	0.69	0.26	76,76,76,76	0
56	MG	2y	104	1/1	0.69	0.17	92,92,92,92	0
56	MG	2a	1731	1/1	0.70	0.17	79,79,79,79	0
56	MG	1A	3988	1/1	0.70	0.17	66,66,66,66	0
56	MG	2w	101	1/1	0.70	0.27	86,86,86,86	0
56	MG	2A	3414	1/1	0.70	0.25	71,71,71,71	0
56	MG	2A	3802	1/1	0.70	0.29	92,92,92,92	0
56	MG	1A	4071	1/1	0.70	0.15	56,56,56,56	0
56	MG	1a	1680	1/1	0.71	0.28	74,74,74,74	0
56	MG	2a	1722	1/1	0.71	0.26	82,82,82,82	0
56	MG	2A	3230	1/1	0.71	0.28	68,68,68,68	0
56	MG	2A	3272	1/1	0.71	0.20	84,84,84,84	0
56	MG	2a	1798	1/1	0.71	0.21	82,82,82,82	0
56	MG	2a	1816	1/1	0.71	0.18	83,83,83,83	0
56	MG	2A	3500	1/1	0.71	0.28	77,77,77,77	0
56	MG	1A	3508	1/1	0.71	0.21	77,77,77,77	0
56	MG	2A	3113	1/1	0.71	0.18	67,67,67,67	0
56	MG	18	107	1/1	0.71	0.22	76,76,76,76	0
56	MG	1a	1767	1/1	0.72	0.18	77,77,77,77	0
56	MG	2a	1629	1/1	0.72	0.28	74,74,74,74	0
56	MG	1w	104	1/1	0.72	0.10	87,87,87,87	0
56	MG	1A	4023	1/1	0.72	0.16	75,75,75,75	0
56	MG	2A	3346	1/1	0.72	0.16	89,89,89,89	0
56	MG	2A	3687	1/1	0.72	0.30	71,71,71,71	0
56	MG	1A	3539	1/1	0.72	0.17	73,73,73,73	0
56	MG	2A	3200	1/1	0.72	0.32	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	1A	3500	1/1	0.72	0.22	82,82,82,82	0
56	MG	2a	1607	1/1	0.72	0.30	80,80,80,80	0
56	MG	1a	1722	1/1	0.72	0.34	73,73,73,73	0
56	MG	1a	1740	1/1	0.72	0.18	89,89,89,89	0
56	MG	2a	1828	1/1	0.73	0.16	91,91,91,91	0
56	MG	2v	103	1/1	0.73	0.24	88,88,88,88	0
56	MG	1A	3731	1/1	0.73	0.18	70,70,70,70	0
56	MG	1A	3728	1/1	0.73	0.20	67,67,67,67	0
56	MG	1A	4022	1/1	0.73	0.15	76,76,76,76	0
56	MG	2A	3195	1/1	0.73	0.17	70,70,70,70	0
56	MG	2a	1663	1/1	0.74	0.28	67,67,67,67	0
56	MG	2A	3575	1/1	0.74	0.16	56,56,56,56	0
56	MG	2A	3857	1/1	0.74	0.11	77,77,77,77	0
56	MG	2A	3876	1/1	0.74	0.29	84,84,84,84	0
56	MG	1a	1684	1/1	0.74	0.20	70,70,70,70	0
56	MG	1Z	302	1/1	0.74	0.14	76,76,76,76	0
56	MG	1A	3542	1/1	0.74	0.27	63,63,63,63	0
56	MG	1A	3355	1/1	0.74	0.17	60,60,60,60	0
56	MG	2l	204	1/1	0.74	0.14	76,76,76,76	0
56	MG	2a	1619	1/1	0.74	0.17	73,73,73,73	0
56	MG	2a	1622	1/1	0.74	0.18	89,89,89,89	0
56	MG	1w	101	1/1	0.74	0.14	67,67,67,67	0
56	MG	2A	3206	1/1	0.74	0.19	68,68,68,68	0
56	MG	2a	1657	1/1	0.74	0.36	81,81,81,81	0
56	MG	1A	3557	1/1	0.75	0.16	70,70,70,70	0
56	MG	2A	3274	1/1	0.75	0.12	71,71,71,71	0
56	MG	2A	3406	1/1	0.75	0.17	70,70,70,70	0
56	MG	1A	3807	1/1	0.75	0.19	53,53,53,53	0
56	MG	2A	3463	1/1	0.75	0.23	77,77,77,77	0
56	MG	2A	3697	1/1	0.75	0.24	69,69,69,69	0
56	MG	2A	3253	1/1	0.75	0.14	87,87,87,87	0
56	MG	2A	3266	1/1	0.75	0.20	82,82,82,82	0
56	MG	2A	3353	1/1	0.75	0.33	83,83,83,83	0
56	MG	2w	103	1/1	0.75	0.26	85,85,85,85	0
56	MG	2a	1658	1/1	0.75	0.33	83,83,83,83	0
56	MG	2A	3865	1/1	0.75	0.17	84,84,84,84	0
56	MG	2A	3640	1/1	0.75	0.33	77,77,77,77	0
56	MG	1A	3837	1/1	0.76	0.20	67,67,67,67	0
56	MG	1A	3987	1/1	0.76	0.14	67,67,67,67	0
56	MG	1A	3272	1/1	0.76	0.28	67,67,67,67	0
56	MG	2a	1708	1/1	0.76	0.24	76,76,76,76	0
56	MG	2a	1711	1/1	0.76	0.34	81,81,81,81	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	0.76	0.20	78,78,78,78	0
56	MG	2A	3293	1/1	0.76	0.19	85,85,85,85	0
56	MG	2a	1736	1/1	0.76	0.19	92,92,92,92	0
56	MG	2a	1742	1/1	0.76	0.26	77,77,77,77	0
56	MG	2A	3619	1/1	0.76	0.22	75,75,75,75	0
56	MG	2A	3210	1/1	0.76	0.22	85,85,85,85	0
56	MG	2A	3220	1/1	0.76	0.22	66,66,66,66	0
56	MG	1h	201	1/1	0.76	0.14	74,74,74,74	0
56	MG	2l	202	1/1	0.76	0.33	85,85,85,85	0
56	MG	2A	3355	1/1	0.76	0.22	59,59,59,59	0
56	MG	1A	4088	1/1	0.76	0.25	83,83,83,83	0
56	MG	1a	1662	1/1	0.76	0.21	75,75,75,75	0
56	MG	1A	3270	1/1	0.76	0.17	69,69,69,69	0
56	MG	2a	1632	1/1	0.76	0.24	77,77,77,77	0
56	MG	2a	1637	1/1	0.76	0.28	88,88,88,88	0
56	MG	2A	3739	1/1	0.76	0.18	65,65,65,65	0
56	MG	2A	3851	1/1	0.77	0.21	65,65,65,65	0
56	MG	2A	3536	1/1	0.77	0.40	77,77,77,77	0
56	MG	1U	210	1/1	0.77	0.25	49,49,49,49	0
56	MG	2A	3873	1/1	0.77	0.11	61,61,61,61	0
56	MG	1A	3473	1/1	0.77	0.23	70,70,70,70	0
56	MG	1A	4086	1/1	0.77	0.26	80,80,80,80	0
56	MG	2A	3268	1/1	0.77	0.32	77,77,77,77	0
56	MG	1A	3842	1/1	0.77	0.22	68,68,68,68	0
56	MG	2A	3399	1/1	0.77	0.29	75,75,75,75	0
56	MG	1A	3958	1/1	0.77	0.22	58,58,58,58	0
56	MG	2A	3410	1/1	0.77	0.12	71,71,71,71	0
56	MG	2a	1829	1/1	0.77	0.31	80,80,80,80	0
56	MG	1A	3026	1/1	0.77	0.20	63,63,63,63	0
56	MG	2A	3705	1/1	0.77	0.25	76,76,76,76	0
56	MG	2v	102	1/1	0.77	0.17	78,78,78,78	0
56	MG	1w	106	1/1	0.77	0.14	73,73,73,73	0
56	MG	2A	3309	1/1	0.77	0.29	70,70,70,70	0
56	MG	2a	1642	1/1	0.77	0.28	75,75,75,75	0
56	MG	2A	3773	1/1	0.77	0.26	58,58,58,58	0
56	MG	1A	3753	1/1	0.77	0.15	61,61,61,61	0
56	MG	2x	101	1/1	0.77	0.19	68,68,68,68	0
56	MG	2A	3841	1/1	0.77	0.18	80,80,80,80	0
56	MG	1O	206	1/1	0.78	0.25	65,65,65,65	0
56	MG	2A	3205	1/1	0.78	0.39	78,78,78,78	0
56	MG	2a	1741	1/1	0.78	0.26	74,74,74,74	0
56	MG	1A	3434	1/1	0.78	0.40	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3755	1/1	0.78	0.20	58,58,58,58	0
56	MG	1a	1744	1/1	0.78	0.38	83,83,83,83	0
56	MG	2a	1626	1/1	0.78	0.23	70,70,70,70	0
56	MG	2a	1817	1/1	0.78	0.21	78,78,78,78	0
56	MG	2A	3083	1/1	0.78	0.25	66,66,66,66	0
56	MG	1A	3714	1/1	0.78	0.15	40,40,40,40	0
56	MG	1a	1776	1/1	0.78	0.13	80,80,80,80	0
56	MG	2A	3297	1/1	0.78	0.19	62,62,62,62	0
56	MG	1A	3531	1/1	0.78	0.12	62,62,62,62	0
56	MG	2A	3312	1/1	0.78	0.27	68,68,68,68	0
56	MG	2a	1660	1/1	0.78	0.19	81,81,81,81	0
56	MG	2A	3335	1/1	0.78	0.23	77,77,77,77	0
56	MG	2E	308	1/1	0.78	0.20	76,76,76,76	0
56	MG	2A	3477	1/1	0.78	0.22	77,77,77,77	0
56	MG	2a	1602	1/1	0.78	0.17	81,81,81,81	0
56	MG	2A	3701	1/1	0.78	0.18	75,75,75,75	0
56	MG	2A	3804	1/1	0.79	0.13	74,74,74,74	0
56	MG	2A	3294	1/1	0.79	0.22	79,79,79,79	0
56	MG	2a	1796	1/1	0.79	0.19	66,66,66,66	0
56	MG	1a	1765	1/1	0.79	0.21	82,82,82,82	0
56	MG	1A	4095	1/1	0.79	0.16	61,61,61,61	0
56	MG	1A	3252	1/1	0.79	0.11	62,62,62,62	0
56	MG	2A	3417	1/1	0.79	0.30	68,68,68,68	0
56	MG	1a	1690	1/1	0.79	0.23	58,58,58,58	0
56	MG	1l	201	1/1	0.79	0.16	80,80,80,80	0
56	MG	2A	3343	1/1	0.79	0.42	86,86,86,86	0
56	MG	2A	3734	1/1	0.79	0.17	67,67,67,67	0
56	MG	2a	1700	1/1	0.79	0.29	75,75,75,75	0
56	MG	1a	1611	1/1	0.79	0.25	69,69,69,69	0
56	MG	1a	1637	1/1	0.79	0.23	75,75,75,75	0
56	MG	1A	3301	1/1	0.79	0.30	72,72,72,72	0
56	MG	2A	3068	1/1	0.79	0.20	66,66,66,66	0
56	MG	2A	3780	1/1	0.79	0.18	54,54,54,54	0
56	MG	2A	3223	1/1	0.79	0.31	75,75,75,75	0
56	MG	2a	1773	1/1	0.80	0.12	87,87,87,87	0
56	MG	2A	3285	1/1	0.80	0.26	71,71,71,71	0
56	MG	2A	3537	1/1	0.80	0.20	60,60,60,60	0
56	MG	1A	3668	1/1	0.80	0.14	61,61,61,61	0
56	MG	2A	3580	1/1	0.80	0.17	73,73,73,73	0
56	MG	2a	1819	1/1	0.80	0.32	74,74,74,74	0
56	MG	2A	3599	1/1	0.80	0.19	66,66,66,66	0
56	MG	2A	3356	1/1	0.80	0.16	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2g	201	1/1	0.80	0.18	79,79,79,79	0
56	MG	2A	3443	1/1	0.80	0.38	65,65,65,65	0
56	MG	2a	1618	1/1	0.80	0.34	77,77,77,77	0
56	MG	2A	3290	1/1	0.80	0.13	70,70,70,70	0
56	MG	2a	1720	1/1	0.80	0.22	79,79,79,79	0
56	MG	1A	3730	1/1	0.80	0.24	71,71,71,71	0
56	MG	2A	3498	1/1	0.80	0.21	72,72,72,72	0
56	MG	1B	222	1/1	0.80	0.18	61,61,61,61	0
56	MG	2A	3264	1/1	0.80	0.23	76,76,76,76	0
56	MG	2A	3516	1/1	0.80	0.30	69,69,69,69	0
56	MG	2A	3533	1/1	0.80	0.22	72,72,72,72	0
56	MG	2A	3203	1/1	0.81	0.24	63,63,63,63	0
56	MG	1A	3418	1/1	0.81	0.29	71,71,71,71	0
56	MG	2a	1698	1/1	0.81	0.29	73,73,73,73	0
56	MG	1A	3027	1/1	0.81	0.18	77,77,77,77	0
56	MG	2A	3374	1/1	0.81	0.29	75,75,75,75	0
56	MG	2A	3588	1/1	0.81	0.25	77,77,77,77	0
56	MG	2a	1713	1/1	0.81	0.14	85,85,85,85	0
56	MG	2A	3862	1/1	0.81	0.25	79,79,79,79	0
56	MG	1x	111	1/1	0.81	0.25	79,79,79,79	0
56	MG	2A	3016	1/1	0.81	0.22	82,82,82,82	0
56	MG	2A	3058	1/1	0.81	0.22	72,72,72,72	0
56	MG	2a	1737	1/1	0.81	0.35	70,70,70,70	0
56	MG	2B	216	1/1	0.81	0.24	79,79,79,79	0
56	MG	1A	3364	1/1	0.81	0.18	55,55,55,55	0
56	MG	2a	1747	1/1	0.81	0.43	71,71,71,71	0
56	MG	1a	1711	1/1	0.81	0.14	71,71,71,71	0
56	MG	25	103	1/1	0.81	0.28	63,63,63,63	0
56	MG	2A	3651	1/1	0.81	0.27	66,66,66,66	0
56	MG	2a	1797	1/1	0.81	0.28	78,78,78,78	0
56	MG	2a	1606	1/1	0.81	0.34	77,77,77,77	0
56	MG	2a	1799	1/1	0.81	0.16	80,80,80,80	0
56	MG	2a	1801	1/1	0.81	0.41	85,85,85,85	0
56	MG	2a	1806	1/1	0.81	0.28	73,73,73,73	0
56	MG	2a	1815	1/1	0.81	0.37	67,67,67,67	0
56	MG	2A	3310	1/1	0.81	0.19	69,69,69,69	0
56	MG	2A	3678	1/1	0.81	0.16	62,62,62,62	0
56	MG	2A	3421	1/1	0.81	0.24	62,62,62,62	0
56	MG	2a	1617	1/1	0.81	0.22	73,73,73,73	0
56	MG	2A	3101	1/1	0.81	0.25	76,76,76,76	0
56	MG	2A	3449	1/1	0.81	0.28	72,72,72,72	0
56	MG	2j	201	1/1	0.81	0.14	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3318	1/1	0.81	0.46	86,86,86,86	0
56	MG	2A	3334	1/1	0.81	0.18	82,82,82,82	0
56	MG	2A	3486	1/1	0.81	0.13	70,70,70,70	0
56	MG	1f	202	1/1	0.81	0.27	76,76,76,76	0
56	MG	1a	1712	1/1	0.81	0.23	68,68,68,68	0
56	MG	2A	3168	1/1	0.81	0.24	71,71,71,71	0
56	MG	2A	3761	1/1	0.81	0.20	64,64,64,64	0
56	MG	1A	3716	1/1	0.81	0.15	65,65,65,65	0
56	MG	1A	3839	1/1	0.81	0.14	40,40,40,40	0
56	MG	2x	102	1/1	0.81	0.28	81,81,81,81	0
56	MG	2x	104	1/1	0.81	0.27	76,76,76,76	0
56	MG	2A	3786	1/1	0.81	0.14	79,79,79,79	0
56	MG	2y	107	1/1	0.81	0.20	87,87,87,87	0
56	MG	1A	4077	1/1	0.82	0.13	56,56,56,56	0
56	MG	2A	3398	1/1	0.82	0.43	63,63,63,63	0
56	MG	1A	3474	1/1	0.82	0.14	70,70,70,70	0
56	MG	2P	201	1/1	0.82	0.22	67,67,67,67	0
56	MG	2A	3655	1/1	0.82	0.19	77,77,77,77	0
56	MG	2a	1601	1/1	0.82	0.16	78,78,78,78	0
56	MG	2a	1766	1/1	0.82	0.11	86,86,86,86	0
56	MG	2A	3276	1/1	0.82	0.31	72,72,72,72	0
56	MG	2a	1790	1/1	0.82	0.22	68,68,68,68	0
56	MG	2a	1795	1/1	0.82	0.27	85,85,85,85	0
56	MG	1A	3535	1/1	0.82	0.14	54,54,54,54	0
56	MG	2A	3412	1/1	0.82	0.14	74,74,74,74	0
56	MG	2A	3115	1/1	0.82	0.20	63,63,63,63	0
56	MG	2A	3690	1/1	0.82	0.14	61,61,61,61	0
56	MG	1a	1642	1/1	0.82	0.34	77,77,77,77	0
56	MG	2A	3292	1/1	0.82	0.10	73,73,73,73	0
56	MG	2a	1809	1/1	0.82	0.19	69,69,69,69	0
56	MG	2A	3175	1/1	0.82	0.32	80,80,80,80	0
56	MG	2A	3717	1/1	0.82	0.14	57,57,57,57	0
56	MG	1A	3476	1/1	0.82	0.14	61,61,61,61	0
56	MG	1A	3997	1/1	0.82	0.14	55,55,55,55	0
56	MG	1A	3723	1/1	0.82	0.15	61,61,61,61	0
56	MG	1A	3102	1/1	0.82	0.13	73,73,73,73	0
56	MG	1A	3409	1/1	0.82	0.20	61,61,61,61	0
56	MG	2A	3317	1/1	0.82	0.18	72,72,72,72	0
56	MG	1x	101	1/1	0.82	0.11	68,68,68,68	0
56	MG	1A	3632	1/1	0.82	0.22	57,57,57,57	0
56	MG	2A	3793	1/1	0.82	0.14	70,70,70,70	0
56	MG	1A	3865	1/1	0.82	0.13	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3906	1/1	0.82	0.19	57,57,57,57	0
56	MG	2A	3829	1/1	0.82	0.15	44,44,44,44	0
56	MG	2A	3064	1/1	0.82	0.15	80,80,80,80	0
56	MG	2w	106	1/1	0.82	0.12	84,84,84,84	0
56	MG	1A	4073	1/1	0.82	0.14	65,65,65,65	0
56	MG	2A	3235	1/1	0.82	0.20	71,71,71,71	0
56	MG	2A	3072	1/1	0.82	0.21	60,60,60,60	0
56	MG	1a	1750	1/1	0.82	0.25	76,76,76,76	0
56	MG	2A	3090	1/1	0.82	0.21	65,65,65,65	0
56	MG	2y	105	1/1	0.82	0.25	89,89,89,89	0
56	MG	2A	3092	1/1	0.82	0.23	67,67,67,67	0
56	MG	2A	3695	1/1	0.83	0.19	60,60,60,60	0
56	MG	1A	3596	1/1	0.83	0.14	55,55,55,55	0
56	MG	1A	3399	1/1	0.83	0.27	67,67,67,67	0
56	MG	2A	3485	1/1	0.83	0.28	72,72,72,72	0
56	MG	1A	3870	1/1	0.83	0.20	62,62,62,62	0
56	MG	2a	1612	1/1	0.83	0.38	75,75,75,75	0
56	MG	1A	4046	1/1	0.83	0.12	39,39,39,39	0
56	MG	1Y	201	1/1	0.83	0.16	62,62,62,62	0
56	MG	1A	4059	1/1	0.83	0.23	62,62,62,62	0
56	MG	2A	3105	1/1	0.83	0.19	77,77,77,77	0
56	MG	2A	3106	1/1	0.83	0.19	79,79,79,79	0
56	MG	2a	1625	1/1	0.83	0.28	79,79,79,79	0
56	MG	2A	3267	1/1	0.83	0.30	72,72,72,72	0
56	MG	1A	3896	1/1	0.83	0.13	41,41,41,41	0
56	MG	2a	1810	1/1	0.83	0.19	79,79,79,79	0
56	MG	2a	1811	1/1	0.83	0.26	71,71,71,71	0
56	MG	1A	3900	1/1	0.83	0.22	65,65,65,65	0
56	MG	2a	1634	1/1	0.83	0.15	94,94,94,94	0
56	MG	2A	3579	1/1	0.83	0.12	64,64,64,64	0
56	MG	1A	3740	1/1	0.83	0.13	52,52,52,52	0
56	MG	2A	3154	1/1	0.83	0.17	83,83,83,83	0
56	MG	1A	3436	1/1	0.83	0.17	54,54,54,54	0
56	MG	1A	3691	1/1	0.83	0.18	60,60,60,60	0
56	MG	1A	3466	1/1	0.83	0.14	66,66,66,66	0
56	MG	2a	1664	1/1	0.83	0.25	83,83,83,83	0
56	MG	1A	3327	1/1	0.83	0.30	72,72,72,72	0
56	MG	2A	3202	1/1	0.83	0.26	80,80,80,80	0
56	MG	2A	3650	1/1	0.83	0.19	53,53,53,53	0
56	MG	1B	208	1/1	0.83	0.28	73,73,73,73	0
56	MG	2a	1710	1/1	0.83	0.19	76,76,76,76	0
56	MG	1A	3529	1/1	0.83	0.14	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3051	1/1	0.83	0.30	81,81,81,81	0
56	MG	2A	3672	1/1	0.83	0.17	65,65,65,65	0
56	MG	2A	3432	1/1	0.83	0.29	73,73,73,73	0
56	MG	1B	226	1/1	0.83	0.13	65,65,65,65	0
56	MG	21	103	1/1	0.83	0.22	64,64,64,64	0
56	MG	1A	3558	1/1	0.83	0.13	74,74,74,74	0
56	MG	2a	1740	1/1	0.83	0.27	65,65,65,65	0
56	MG	2A	3462	1/1	0.83	0.19	63,63,63,63	0
56	MG	1A	3493	1/1	0.84	0.24	64,64,64,64	0
56	MG	2a	1702	1/1	0.84	0.28	75,75,75,75	0
56	MG	2a	1706	1/1	0.84	0.23	67,67,67,67	0
56	MG	2A	3555	1/1	0.84	0.16	68,68,68,68	0
56	MG	2A	3813	1/1	0.84	0.15	55,55,55,55	0
56	MG	2A	3823	1/1	0.84	0.10	73,73,73,73	0
56	MG	2A	3571	1/1	0.84	0.11	76,76,76,76	0
56	MG	2a	1715	1/1	0.84	0.16	71,71,71,71	0
56	MG	2A	3358	1/1	0.84	0.17	78,78,78,78	0
56	MG	1T	202	1/1	0.84	0.16	68,68,68,68	0
56	MG	2a	1724	1/1	0.84	0.26	79,79,79,79	0
56	MG	2a	1728	1/1	0.84	0.15	71,71,71,71	0
56	MG	1a	1699	1/1	0.84	0.21	71,71,71,71	0
56	MG	2A	3861	1/1	0.84	0.15	59,59,59,59	0
56	MG	2A	3116	1/1	0.84	0.48	80,80,80,80	0
56	MG	2a	1738	1/1	0.84	0.28	60,60,60,60	0
56	MG	2A	3392	1/1	0.84	0.16	77,77,77,77	0
56	MG	2A	3603	1/1	0.84	0.22	64,64,64,64	0
56	MG	2A	3397	1/1	0.84	0.18	78,78,78,78	0
56	MG	2B	208	1/1	0.84	0.27	67,67,67,67	0
56	MG	2B	212	1/1	0.84	0.23	78,78,78,78	0
56	MG	1a	1704	1/1	0.84	0.27	67,67,67,67	0
56	MG	2a	1767	1/1	0.84	0.11	85,85,85,85	0
56	MG	2A	3161	1/1	0.84	0.17	73,73,73,73	0
56	MG	2a	1780	1/1	0.84	0.11	84,84,84,84	0
56	MG	2A	3400	1/1	0.84	0.15	72,72,72,72	0
56	MG	1A	3797	1/1	0.84	0.17	57,57,57,57	0
56	MG	1A	3345	1/1	0.84	0.27	65,65,65,65	0
56	MG	2A	3023	1/1	0.84	0.25	75,75,75,75	0
56	MG	2A	3665	1/1	0.84	0.14	63,63,63,63	0
56	MG	1A	3349	1/1	0.84	0.24	61,61,61,61	0
56	MG	2A	3054	1/1	0.84	0.20	65,65,65,65	0
56	MG	1a	1738	1/1	0.84	0.19	66,66,66,66	0
56	MG	2a	1807	1/1	0.84	0.19	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3814	1/1	0.84	0.14	43,43,43,43	0
56	MG	1A	3600	1/1	0.84	0.30	71,71,71,71	0
56	MG	2A	3445	1/1	0.84	0.23	62,62,62,62	0
56	MG	2a	1616	1/1	0.84	0.23	69,69,69,69	0
56	MG	1a	1603	1/1	0.84	0.26	67,67,67,67	0
56	MG	1A	3254	1/1	0.84	0.14	63,63,63,63	0
56	MG	2a	1818	1/1	0.84	0.28	58,58,58,58	0
56	MG	1a	1625	1/1	0.84	0.16	63,63,63,63	0
56	MG	2A	3091	1/1	0.84	0.23	84,84,84,84	0
56	MG	2A	3715	1/1	0.84	0.11	56,56,56,56	0
56	MG	2a	1831	1/1	0.84	0.20	73,73,73,73	0
56	MG	2A	3483	1/1	0.84	0.17	67,67,67,67	0
56	MG	2A	3719	1/1	0.84	0.12	54,54,54,54	0
56	MG	2l	201	1/1	0.84	0.17	76,76,76,76	0
56	MG	2A	3323	1/1	0.84	0.15	63,63,63,63	0
56	MG	1A	4060	1/1	0.84	0.22	38,38,38,38	0
56	MG	2A	3743	1/1	0.84	0.21	78,78,78,78	0
56	MG	2A	3745	1/1	0.84	0.13	67,67,67,67	0
56	MG	2a	1641	1/1	0.84	0.18	93,93,93,93	0
56	MG	2w	102	1/1	0.84	0.14	89,89,89,89	0
56	MG	2A	3098	1/1	0.84	0.14	73,73,73,73	0
56	MG	1A	3789	1/1	0.84	0.09	73,73,73,73	0
56	MG	2A	3250	1/1	0.84	0.27	64,64,64,64	0
56	MG	2A	3504	1/1	0.84	0.16	64,64,64,64	0
56	MG	1A	3851	1/1	0.84	0.11	54,54,54,54	0
56	MG	2A	3256	1/1	0.84	0.35	70,70,70,70	0
56	MG	2a	1670	1/1	0.84	0.19	68,68,68,68	0
56	MG	1E	307	1/1	0.84	0.28	51,51,51,51	0
56	MG	2a	1689	1/1	0.84	0.24	78,78,78,78	0
56	MG	2A	3796	1/1	0.84	0.15	59,59,59,59	0
56	MG	1a	1719	1/1	0.85	0.28	71,71,71,71	0
56	MG	2A	3089	1/1	0.85	0.28	70,70,70,70	0
56	MG	2A	3377	1/1	0.85	0.33	75,75,75,75	0
56	MG	2A	3621	1/1	0.85	0.25	75,75,75,75	0
56	MG	1A	4029	1/1	0.85	0.12	70,70,70,70	0
56	MG	2A	3395	1/1	0.85	0.22	76,76,76,76	0
56	MG	1a	1737	1/1	0.85	0.17	69,69,69,69	0
56	MG	2B	201	1/1	0.85	0.21	86,86,86,86	0
56	MG	1A	3215	1/1	0.85	0.23	64,64,64,64	0
56	MG	1A	3481	1/1	0.85	0.35	72,72,72,72	0
56	MG	1A	3739	1/1	0.85	0.13	61,61,61,61	0
56	MG	2E	305	1/1	0.85	0.20	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3265	1/1	0.85	0.19	68,68,68,68	0
56	MG	1a	1756	1/1	0.85	0.16	81,81,81,81	0
56	MG	1A	3598	1/1	0.85	0.31	63,63,63,63	0
56	MG	2Z	301	1/1	0.85	0.21	71,71,71,71	0
56	MG	1A	3499	1/1	0.85	0.19	73,73,73,73	0
56	MG	1A	3207	1/1	0.85	0.10	63,63,63,63	0
56	MG	2a	1749	1/1	0.85	0.23	73,73,73,73	0
56	MG	1A	3979	1/1	0.85	0.17	72,72,72,72	0
56	MG	2a	1764	1/1	0.85	0.09	92,92,92,92	0
56	MG	2A	3122	1/1	0.85	0.17	77,77,77,77	0
56	MG	2a	1603	1/1	0.85	0.09	63,63,63,63	0
56	MG	2a	1604	1/1	0.85	0.16	79,79,79,79	0
56	MG	2A	3691	1/1	0.85	0.10	78,78,78,78	0
56	MG	1A	3649	1/1	0.85	0.14	67,67,67,67	0
56	MG	1a	1632	1/1	0.85	0.26	72,72,72,72	0
56	MG	2a	1609	1/1	0.85	0.41	78,78,78,78	0
56	MG	1A	3447	1/1	0.85	0.20	43,43,43,43	0
56	MG	1w	102	1/1	0.85	0.19	75,75,75,75	0
56	MG	2a	1615	1/1	0.85	0.34	70,70,70,70	0
56	MG	2A	3182	1/1	0.85	0.28	68,68,68,68	0
56	MG	1A	3454	1/1	0.85	0.15	69,69,69,69	0
56	MG	2A	3314	1/1	0.85	0.16	70,70,70,70	0
56	MG	1a	1648	1/1	0.85	0.21	71,71,71,71	0
56	MG	1w	107	1/1	0.85	0.13	84,84,84,84	0
56	MG	2A	3742	1/1	0.85	0.12	76,76,76,76	0
56	MG	2A	3492	1/1	0.85	0.20	73,73,73,73	0
56	MG	1A	3999	1/1	0.85	0.15	51,51,51,51	0
56	MG	2A	3333	1/1	0.85	0.13	62,62,62,62	0
56	MG	2A	3751	1/1	0.85	0.16	66,66,66,66	0
56	MG	1a	1679	1/1	0.85	0.23	72,72,72,72	0
56	MG	2a	1635	1/1	0.85	0.17	77,77,77,77	0
56	MG	2A	3502	1/1	0.85	0.15	59,59,59,59	0
56	MG	2A	3763	1/1	0.85	0.22	69,69,69,69	0
56	MG	1A	3412	1/1	0.85	0.14	42,42,42,42	0
56	MG	2a	1649	1/1	0.85	0.17	74,74,74,74	0
56	MG	2a	1650	1/1	0.85	0.21	66,66,66,66	0
56	MG	2a	1653	1/1	0.85	0.19	70,70,70,70	0
56	MG	2A	3339	1/1	0.85	0.15	74,74,74,74	0
56	MG	1A	3415	1/1	0.85	0.17	51,51,51,51	0
56	MG	1A	3329	1/1	0.85	0.19	48,48,48,48	0
56	MG	1A	3475	1/1	0.85	0.26	64,64,64,64	0
56	MG	1a	1702	1/1	0.85	0.25	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	2a	1669	1/1	0.85	0.11	87,87,87,87	0
56	MG	1B	231	1/1	0.85	0.10	70,70,70,70	0
56	MG	2a	1678	1/1	0.85	0.14	68,68,68,68	0
56	MG	2A	3805	1/1	0.85	0.18	69,69,69,69	0
56	MG	2a	1686	1/1	0.85	0.22	79,79,79,79	0
56	MG	1A	4026	1/1	0.85	0.10	70,70,70,70	0
56	MG	1F	304	1/1	0.85	0.18	48,48,48,48	0
56	MG	2x	106	1/1	0.85	0.19	64,64,64,64	0
56	MG	2A	3359	1/1	0.85	0.24	71,71,71,71	0
56	MG	2A	3238	1/1	0.85	0.17	64,64,64,64	0
56	MG	2a	1704	1/1	0.85	0.17	82,82,82,82	0
56	MG	20	101	1/1	0.86	0.23	80,80,80,80	0
56	MG	2A	3193	1/1	0.86	0.18	74,74,74,74	0
56	MG	2A	3433	1/1	0.86	0.34	61,61,61,61	0
56	MG	1A	3467	1/1	0.86	0.12	58,58,58,58	0
56	MG	10	107	1/1	0.86	0.21	69,69,69,69	0
56	MG	2A	3201	1/1	0.86	0.39	70,70,70,70	0
56	MG	2A	3453	1/1	0.86	0.32	71,71,71,71	0
56	MG	13	103	1/1	0.86	0.17	57,57,57,57	0
56	MG	1A	4039	1/1	0.86	0.16	49,49,49,49	0
56	MG	1A	3990	1/1	0.86	0.13	41,41,41,41	0
56	MG	2A	3721	1/1	0.86	0.14	73,73,73,73	0
56	MG	1A	4054	1/1	0.86	0.21	74,74,74,74	0
56	MG	1A	3376	1/1	0.86	0.16	58,58,58,58	0
56	MG	1a	1627	1/1	0.86	0.21	71,71,71,71	0
56	MG	1a	1631	1/1	0.86	0.18	65,65,65,65	0
56	MG	1a	1745	1/1	0.86	0.11	70,70,70,70	0
56	MG	2a	1772	1/1	0.86	0.10	73,73,73,73	0
56	MG	1A	3333	1/1	0.86	0.14	53,53,53,53	0
56	MG	2A	3747	1/1	0.86	0.14	77,77,77,77	0
56	MG	2a	1787	1/1	0.86	0.15	71,71,71,71	0
56	MG	2A	3344	1/1	0.86	0.28	74,74,74,74	0
56	MG	1A	3248	1/1	0.86	0.15	63,63,63,63	0
56	MG	1a	1764	1/1	0.86	0.21	73,73,73,73	0
56	MG	1D	311	1/1	0.86	0.31	73,73,73,73	0
56	MG	2A	3094	1/1	0.86	0.17	56,56,56,56	0
56	MG	2A	3252	1/1	0.86	0.32	79,79,79,79	0
56	MG	1A	3721	1/1	0.86	0.14	55,55,55,55	0
56	MG	2A	3541	1/1	0.86	0.16	69,69,69,69	0
56	MG	1a	1773	1/1	0.86	0.13	95,95,95,95	0
56	MG	2A	3365	1/1	0.86	0.17	70,70,70,70	0
56	MG	2A	3368	1/1	0.86	0.14	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1645	1/1	0.86	0.32	67,67,67,67	0
56	MG	2A	3371	1/1	0.86	0.13	69,69,69,69	0
56	MG	2A	3102	1/1	0.86	0.31	79,79,79,79	0
56	MG	1a	1655	1/1	0.86	0.21	73,73,73,73	0
56	MG	2a	1656	1/1	0.86	0.13	75,75,75,75	0
56	MG	2A	3828	1/1	0.86	0.17	73,73,73,73	0
56	MG	2a	1825	1/1	0.86	0.10	73,73,73,73	0
56	MG	2A	3595	1/1	0.86	0.13	70,70,70,70	0
56	MG	1a	1810	1/1	0.86	0.29	60,60,60,60	0
56	MG	2A	3380	1/1	0.86	0.22	65,65,65,65	0
56	MG	2A	3390	1/1	0.86	0.20	76,76,76,76	0
56	MG	1A	3310	1/1	0.86	0.26	54,54,54,54	0
56	MG	1a	1671	1/1	0.86	0.13	65,65,65,65	0
56	MG	1N	205	1/1	0.86	0.27	58,58,58,58	0
56	MG	2a	1679	1/1	0.86	0.24	73,73,73,73	0
56	MG	1A	3518	1/1	0.86	0.13	60,60,60,60	0
56	MG	2A	3277	1/1	0.86	0.18	73,73,73,73	0
56	MG	1a	1683	1/1	0.86	0.10	70,70,70,70	0
56	MG	2a	1691	1/1	0.86	0.29	66,66,66,66	0
56	MG	2A	3140	1/1	0.86	0.15	71,71,71,71	0
56	MG	2B	210	1/1	0.86	0.24	76,76,76,76	0
56	MG	1A	3843	1/1	0.86	0.13	46,46,46,46	0
56	MG	1A	4089	1/1	0.86	0.16	68,68,68,68	0
56	MG	1A	3848	1/1	0.86	0.11	69,69,69,69	0
56	MG	1A	4091	1/1	0.86	0.11	63,63,63,63	0
56	MG	2F	302	1/1	0.86	0.11	49,49,49,49	0
56	MG	2A	3679	1/1	0.86	0.33	79,79,79,79	0
56	MG	1x	108	1/1	0.86	0.21	72,72,72,72	0
56	MG	2Q	202	1/1	0.86	0.19	67,67,67,67	0
56	MG	2y	106	1/1	0.86	0.33	72,72,72,72	0
56	MG	2A	3425	1/1	0.86	0.11	45,45,45,45	0
56	MG	1A	3844	1/1	0.87	0.12	53,53,53,53	0
56	MG	2A	3271	1/1	0.87	0.13	72,72,72,72	0
56	MG	1F	313	1/1	0.87	0.16	57,57,57,57	0
56	MG	2a	1659	1/1	0.87	0.24	76,76,76,76	0
56	MG	1A	3020	1/1	0.87	0.17	52,52,52,52	0
56	MG	2a	1661	1/1	0.87	0.16	75,75,75,75	0
56	MG	2A	3434	1/1	0.87	0.16	62,62,62,62	0
56	MG	2A	3436	1/1	0.87	0.21	59,59,59,59	0
56	MG	2A	3438	1/1	0.87	0.12	63,63,63,63	0
56	MG	1A	3169	1/1	0.87	0.20	63,63,63,63	0
56	MG	1A	3354	1/1	0.87	0.12	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	3095	1/1	0.87	0.22	55,55,55,55	0
56	MG	1A	3053	1/1	0.87	0.12	53,53,53,53	0
56	MG	2A	3455	1/1	0.87	0.37	76,76,76,76	0
56	MG	2A	3781	1/1	0.87	0.09	80,80,80,80	0
56	MG	2A	3458	1/1	0.87	0.19	64,64,64,64	0
56	MG	2a	1693	1/1	0.87	0.18	72,72,72,72	0
56	MG	2a	1696	1/1	0.87	0.17	80,80,80,80	0
56	MG	2A	3792	1/1	0.87	0.11	66,66,66,66	0
56	MG	1A	3872	1/1	0.87	0.14	53,53,53,53	0
56	MG	1A	4055	1/1	0.87	0.07	17,17,17,17	0
56	MG	2A	3801	1/1	0.87	0.17	80,80,80,80	0
56	MG	2A	3469	1/1	0.87	0.11	67,67,67,67	0
56	MG	1A	3264	1/1	0.87	0.21	66,66,66,66	0
56	MG	1A	3435	1/1	0.87	0.31	69,69,69,69	0
56	MG	1A	4065	1/1	0.87	0.12	57,57,57,57	0
56	MG	1A	3094	1/1	0.87	0.17	55,55,55,55	0
56	MG	1A	3921	1/1	0.87	0.11	37,37,37,37	0
56	MG	1a	1608	1/1	0.87	0.34	72,72,72,72	0
56	MG	1A	3936	1/1	0.87	0.16	65,65,65,65	0
56	MG	2A	3132	1/1	0.87	0.15	70,70,70,70	0
56	MG	2a	1725	1/1	0.87	0.25	72,72,72,72	0
56	MG	2A	3854	1/1	0.87	0.17	67,67,67,67	0
56	MG	1a	1616	1/1	0.87	0.12	75,75,75,75	0
56	MG	1A	3601	1/1	0.87	0.27	64,64,64,64	0
56	MG	1A	3375	1/1	0.87	0.26	56,56,56,56	0
56	MG	1e	202	1/1	0.87	0.13	69,69,69,69	0
56	MG	2A	3867	1/1	0.87	0.20	62,62,62,62	0
56	MG	1A	3231	1/1	0.87	0.15	52,52,52,52	0
56	MG	1A	3338	1/1	0.87	0.11	59,59,59,59	0
56	MG	2a	1743	1/1	0.87	0.23	73,73,73,73	0
56	MG	1A	3526	1/1	0.87	0.12	71,71,71,71	0
56	MG	2B	207	1/1	0.87	0.15	68,68,68,68	0
56	MG	1a	1640	1/1	0.87	0.36	68,68,68,68	0
56	MG	2A	3562	1/1	0.87	0.11	58,58,58,58	0
56	MG	2A	3570	1/1	0.87	0.18	64,64,64,64	0
56	MG	2B	213	1/1	0.87	0.32	76,76,76,76	0
56	MG	2a	1768	1/1	0.87	0.13	71,71,71,71	0
56	MG	1A	3701	1/1	0.87	0.08	39,39,39,39	0
56	MG	2B	219	1/1	0.87	0.19	78,78,78,78	0
56	MG	2D	304	1/1	0.87	0.11	67,67,67,67	0
56	MG	1B	203	1/1	0.87	0.28	63,63,63,63	0
56	MG	2A	3347	1/1	0.87	0.14	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1w	105	1/1	0.87	0.12	76,76,76,76	0
56	MG	1A	3340	1/1	0.87	0.37	70,70,70,70	0
56	MG	2A	3204	1/1	0.87	0.41	71,71,71,71	0
56	MG	1B	214	1/1	0.87	0.28	70,70,70,70	0
56	MG	2A	3602	1/1	0.87	0.13	67,67,67,67	0
56	MG	1A	4002	1/1	0.87	0.14	38,38,38,38	0
56	MG	2A	3606	1/1	0.87	0.23	72,72,72,72	0
56	MG	1a	1672	1/1	0.87	0.19	68,68,68,68	0
56	MG	26	101	1/1	0.87	0.21	65,65,65,65	0
56	MG	2A	3218	1/1	0.87	0.24	68,68,68,68	0
56	MG	2A	3219	1/1	0.87	0.15	66,66,66,66	0
56	MG	2A	3369	1/1	0.87	0.18	61,61,61,61	0
56	MG	1A	4004	1/1	0.87	0.23	32,32,32,32	0
56	MG	2A	3372	1/1	0.87	0.17	78,78,78,78	0
56	MG	1x	112	1/1	0.87	0.21	73,73,73,73	0
56	MG	2A	3654	1/1	0.87	0.12	77,77,77,77	0
56	MG	2a	1822	1/1	0.87	0.13	67,67,67,67	0
56	MG	2a	1823	1/1	0.87	0.12	78,78,78,78	0
56	MG	1A	3715	1/1	0.87	0.11	60,60,60,60	0
56	MG	2A	3656	1/1	0.87	0.13	60,60,60,60	0
56	MG	2A	3660	1/1	0.87	0.17	61,61,61,61	0
56	MG	2A	3227	1/1	0.87	0.16	59,59,59,59	0
56	MG	2a	1837	1/1	0.87	0.30	68,68,68,68	0
56	MG	1A	3841	1/1	0.87	0.10	47,47,47,47	0
56	MG	2A	3386	1/1	0.87	0.42	74,74,74,74	0
56	MG	2A	3675	1/1	0.87	0.12	52,52,52,52	0
56	MG	2A	3032	1/1	0.87	0.17	67,67,67,67	0
56	MG	2a	1620	1/1	0.87	0.13	82,82,82,82	0
56	MG	2q	202	1/1	0.87	0.14	84,84,84,84	0
56	MG	2a	1621	1/1	0.87	0.19	80,80,80,80	0
56	MG	1A	4010	1/1	0.87	0.15	51,51,51,51	0
56	MG	2A	3236	1/1	0.87	0.27	66,66,66,66	0
56	MG	1a	1685	1/1	0.87	0.27	64,64,64,64	0
56	MG	1A	3469	1/1	0.87	0.13	65,65,65,65	0
56	MG	1a	1695	1/1	0.87	0.30	67,67,67,67	0
56	MG	2A	3065	1/1	0.87	0.13	73,73,73,73	0
56	MG	1a	1698	1/1	0.87	0.25	66,66,66,66	0
56	MG	2A	3407	1/1	0.87	0.10	80,80,80,80	0
56	MG	2A	3409	1/1	0.87	0.10	63,63,63,63	0
56	MG	2A	3260	1/1	0.87	0.21	70,70,70,70	0
56	MG	1E	302	1/1	0.87	0.27	59,59,59,59	0
56	MG	1A	3471	1/1	0.87	0.13	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	3415	1/1	0.87	0.26	57,57,57,57	0
56	MG	2A	3732	1/1	0.87	0.23	59,59,59,59	0
56	MG	2A	3086	1/1	0.87	0.18	64,64,64,64	0
56	MG	2A	3056	1/1	0.88	0.29	65,65,65,65	0
56	MG	2A	3254	1/1	0.88	0.15	71,71,71,71	0
56	MG	2A	3255	1/1	0.88	0.12	68,68,68,68	0
56	MG	1A	3361	1/1	0.88	0.16	45,45,45,45	0
56	MG	2A	3426	1/1	0.88	0.18	67,67,67,67	0
56	MG	2A	3427	1/1	0.88	0.20	54,54,54,54	0
56	MG	2A	3063	1/1	0.88	0.20	65,65,65,65	0
56	MG	2A	3263	1/1	0.88	0.13	62,62,62,62	0
56	MG	1A	3823	1/1	0.88	0.16	52,52,52,52	0
56	MG	1A	3334	1/1	0.88	0.13	49,49,49,49	0
56	MG	1A	3602	1/1	0.88	0.23	59,59,59,59	0
56	MG	2a	1682	1/1	0.88	0.11	73,73,73,73	0
56	MG	2a	1684	1/1	0.88	0.25	69,69,69,69	0
56	MG	1A	3608	1/1	0.88	0.21	51,51,51,51	0
56	MG	1I	201	1/1	0.88	0.12	67,67,67,67	0
56	MG	2A	3785	1/1	0.88	0.11	67,67,67,67	0
56	MG	1A	3367	1/1	0.88	0.21	57,57,57,57	0
56	MG	1O	201	1/1	0.88	0.14	66,66,66,66	0
56	MG	2A	3275	1/1	0.88	0.11	65,65,65,65	0
56	MG	1A	3645	1/1	0.88	0.13	55,55,55,55	0
56	MG	1a	1714	1/1	0.88	0.21	62,62,62,62	0
56	MG	1R	205	1/1	0.88	0.22	47,47,47,47	0
56	MG	1A	3443	1/1	0.88	0.13	70,70,70,70	0
56	MG	2A	3289	1/1	0.88	0.16	64,64,64,64	0
56	MG	2A	3478	1/1	0.88	0.22	72,72,72,72	0
56	MG	1a	1723	1/1	0.88	0.45	78,78,78,78	0
56	MG	1a	1725	1/1	0.88	0.15	71,71,71,71	0
56	MG	1a	1728	1/1	0.88	0.13	65,65,65,65	0
56	MG	2A	3489	1/1	0.88	0.25	67,67,67,67	0
56	MG	2A	3846	1/1	0.88	0.10	59,59,59,59	0
56	MG	2A	3849	1/1	0.88	0.18	77,77,77,77	0
56	MG	1A	3506	1/1	0.88	0.09	46,46,46,46	0
56	MG	2A	3493	1/1	0.88	0.40	63,63,63,63	0
56	MG	2a	1727	1/1	0.88	0.23	76,76,76,76	0
56	MG	2A	3103	1/1	0.88	0.18	59,59,59,59	0
56	MG	2a	1730	1/1	0.88	0.17	77,77,77,77	0
56	MG	2A	3858	1/1	0.88	0.14	75,75,75,75	0
56	MG	2A	3300	1/1	0.88	0.13	68,68,68,68	0
56	MG	2A	3305	1/1	0.88	0.15	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3687	1/1	0.88	0.15	64,64,64,64	0
56	MG	1A	3335	1/1	0.88	0.32	62,62,62,62	0
56	MG	2A	3511	1/1	0.88	0.22	58,58,58,58	0
56	MG	1Y	202	1/1	0.88	0.10	75,75,75,75	0
56	MG	1A	3513	1/1	0.88	0.20	60,60,60,60	0
56	MG	2a	1746	1/1	0.88	0.17	69,69,69,69	0
56	MG	2A	3316	1/1	0.88	0.24	79,79,79,79	0
56	MG	1A	3210	1/1	0.88	0.17	66,66,66,66	0
56	MG	2a	1750	1/1	0.88	0.15	85,85,85,85	0
56	MG	1a	1755	1/1	0.88	0.15	77,77,77,77	0
56	MG	2a	1755	1/1	0.88	0.10	85,85,85,85	0
56	MG	2A	3320	1/1	0.88	0.18	73,73,73,73	0
56	MG	1A	3460	1/1	0.88	0.21	64,64,64,64	0
56	MG	2A	3328	1/1	0.88	0.17	69,69,69,69	0
56	MG	2A	3125	1/1	0.88	0.18	62,62,62,62	0
56	MG	1a	1761	1/1	0.88	0.13	66,66,66,66	0
56	MG	2A	3137	1/1	0.88	0.14	55,55,55,55	0
56	MG	2E	307	1/1	0.88	0.18	74,74,74,74	0
56	MG	2a	1783	1/1	0.88	0.12	73,73,73,73	0
56	MG	1A	3465	1/1	0.88	0.14	60,60,60,60	0
56	MG	2A	3145	1/1	0.88	0.21	54,54,54,54	0
56	MG	2A	3146	1/1	0.88	0.30	75,75,75,75	0
56	MG	1A	3530	1/1	0.88	0.21	74,74,74,74	0
56	MG	1a	1605	1/1	0.88	0.14	64,64,64,64	0
56	MG	2V	202	1/1	0.88	0.14	70,70,70,70	0
56	MG	2W	203	1/1	0.88	0.17	65,65,65,65	0
56	MG	1A	4076	1/1	0.88	0.17	60,60,60,60	0
56	MG	1A	3912	1/1	0.88	0.09	43,43,43,43	0
56	MG	1A	3386	1/1	0.88	0.14	66,66,66,66	0
56	MG	2A	3183	1/1	0.88	0.10	56,56,56,56	0
56	MG	2A	3191	1/1	0.88	0.19	65,65,65,65	0
56	MG	1a	1812	1/1	0.88	0.10	77,77,77,77	0
56	MG	1a	1813	1/1	0.88	0.15	76,76,76,76	0
56	MG	1a	1617	1/1	0.88	0.26	66,66,66,66	0
56	MG	1A	3144	1/1	0.88	0.19	42,42,42,42	0
56	MG	1A	3325	1/1	0.88	0.23	60,60,60,60	0
56	MG	1A	3541	1/1	0.88	0.18	51,51,51,51	0
56	MG	1A	3164	1/1	0.88	0.22	60,60,60,60	0
56	MG	2A	3658	1/1	0.88	0.11	70,70,70,70	0
56	MG	1A	3552	1/1	0.88	0.14	58,58,58,58	0
56	MG	2A	3662	1/1	0.88	0.14	74,74,74,74	0
56	MG	1A	3084	1/1	0.88	0.15	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3995	1/1	0.88	0.10	58,58,58,58	0
56	MG	1B	213	1/1	0.88	0.32	68,68,68,68	0
56	MG	2a	1840	1/1	0.88	0.10	75,75,75,75	0
56	MG	2A	3382	1/1	0.88	0.17	71,71,71,71	0
56	MG	1a	1650	1/1	0.88	0.14	65,65,65,65	0
56	MG	1A	3332	1/1	0.88	0.22	55,55,55,55	0
56	MG	1B	215	1/1	0.88	0.10	63,63,63,63	0
56	MG	1a	1663	1/1	0.88	0.14	68,68,68,68	0
56	MG	1A	3570	1/1	0.88	0.36	66,66,66,66	0
56	MG	2r	101	1/1	0.88	0.15	77,77,77,77	0
56	MG	2t	201	1/1	0.88	0.20	59,59,59,59	0
56	MG	2v	101	1/1	0.88	0.15	63,63,63,63	0
56	MG	2A	3008	1/1	0.88	0.20	64,64,64,64	0
56	MG	1A	4001	1/1	0.88	0.14	54,54,54,54	0
56	MG	2v	104	1/1	0.88	0.26	81,81,81,81	0
56	MG	2a	1628	1/1	0.88	0.16	79,79,79,79	0
56	MG	1A	3595	1/1	0.88	0.16	54,54,54,54	0
56	MG	2A	3405	1/1	0.88	0.15	69,69,69,69	0
56	MG	1A	3139	1/1	0.88	0.21	44,44,44,44	0
56	MG	2A	3039	1/1	0.88	0.30	71,71,71,71	0
56	MG	2a	1636	1/1	0.88	0.12	86,86,86,86	0
56	MG	2A	3408	1/1	0.88	0.12	60,60,60,60	0
56	MG	2A	3245	1/1	0.88	0.15	68,68,68,68	0
56	MG	2A	3720	1/1	0.88	0.16	64,64,64,64	0
56	MG	2A	3248	1/1	0.88	0.13	78,78,78,78	0
56	MG	2y	103	1/1	0.88	0.11	73,73,73,73	0
56	MG	1A	3428	1/1	0.88	0.27	70,70,70,70	0
56	MG	2A	3733	1/1	0.88	0.17	71,71,71,71	0
56	MG	1B	235	1/1	0.88	0.15	72,72,72,72	0
56	MG	2A	3736	1/1	0.88	0.10	63,63,63,63	0
56	MG	2A	3419	1/1	0.89	0.22	58,58,58,58	0
56	MG	2A	3420	1/1	0.89	0.20	51,51,51,51	0
56	MG	2A	3729	1/1	0.89	0.10	75,75,75,75	0
56	MG	2A	3731	1/1	0.89	0.17	67,67,67,67	0
56	MG	1A	4044	1/1	0.89	0.11	48,48,48,48	0
56	MG	2A	3273	1/1	0.89	0.12	63,63,63,63	0
56	MG	1a	1634	1/1	0.89	0.26	74,74,74,74	0
56	MG	1A	3035	1/1	0.89	0.14	53,53,53,53	0
56	MG	2A	3431	1/1	0.89	0.14	70,70,70,70	0
56	MG	2A	3740	1/1	0.89	0.13	64,64,64,64	0
56	MG	2A	3111	1/1	0.89	0.19	69,69,69,69	0
56	MG	2A	3112	1/1	0.89	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	3280	1/1	0.89	0.14	69,69,69,69	0
56	MG	1A	4053	1/1	0.89	0.10	51,51,51,51	0
56	MG	2a	1676	1/1	0.89	0.14	69,69,69,69	0
56	MG	1a	1781	1/1	0.89	0.11	70,70,70,70	0
56	MG	2A	3749	1/1	0.89	0.13	44,44,44,44	0
56	MG	1a	1785	1/1	0.89	0.11	67,67,67,67	0
56	MG	2A	3754	1/1	0.89	0.15	52,52,52,52	0
56	MG	1a	1792	1/1	0.89	0.11	69,69,69,69	0
56	MG	2A	3760	1/1	0.89	0.15	75,75,75,75	0
56	MG	1A	3157	1/1	0.89	0.10	39,39,39,39	0
56	MG	2A	3452	1/1	0.89	0.31	67,67,67,67	0
56	MG	1a	1811	1/1	0.89	0.20	84,84,84,84	0
56	MG	1a	1646	1/1	0.89	0.18	67,67,67,67	0
56	MG	2A	3295	1/1	0.89	0.31	70,70,70,70	0
56	MG	1D	313	1/1	0.89	0.14	40,40,40,40	0
56	MG	2A	3298	1/1	0.89	0.34	77,77,77,77	0
56	MG	1a	1649	1/1	0.89	0.25	67,67,67,67	0
56	MG	2A	3471	1/1	0.89	0.11	67,67,67,67	0
56	MG	2a	1707	1/1	0.89	0.19	74,74,74,74	0
56	MG	2A	3475	1/1	0.89	0.14	80,80,80,80	0
56	MG	1A	3074	1/1	0.89	0.27	63,63,63,63	0
56	MG	1A	3336	1/1	0.89	0.30	54,54,54,54	0
56	MG	2A	3479	1/1	0.89	0.35	69,69,69,69	0
56	MG	1E	313	1/1	0.89	0.13	64,64,64,64	0
56	MG	2a	1717	1/1	0.89	0.31	74,74,74,74	0
56	MG	2A	3166	1/1	0.89	0.19	53,53,53,53	0
56	MG	1n	102	1/1	0.89	0.19	64,64,64,64	0
56	MG	2A	3315	1/1	0.89	0.17	69,69,69,69	0
56	MG	2A	3491	1/1	0.89	0.09	59,59,59,59	0
56	MG	2A	3835	1/1	0.89	0.14	77,77,77,77	0
56	MG	1A	3964	1/1	0.89	0.08	53,53,53,53	0
56	MG	2A	3176	1/1	0.89	0.21	60,60,60,60	0
56	MG	2A	3494	1/1	0.89	0.12	66,66,66,66	0
56	MG	2A	3178	1/1	0.89	0.14	75,75,75,75	0
56	MG	2A	3319	1/1	0.89	0.14	54,54,54,54	0
56	MG	1a	1666	1/1	0.89	0.13	65,65,65,65	0
56	MG	1w	103	1/1	0.89	0.11	75,75,75,75	0
56	MG	2A	3326	1/1	0.89	0.17	64,64,64,64	0
56	MG	2A	3508	1/1	0.89	0.12	54,54,54,54	0
56	MG	1A	4064	1/1	0.89	0.10	38,38,38,38	0
56	MG	1F	314	1/1	0.89	0.10	58,58,58,58	0
56	MG	1G	202	1/1	0.89	0.19	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3197	1/1	0.89	0.28	73,73,73,73	0
56	MG	1A	3294	1/1	0.89	0.10	39,39,39,39	0
56	MG	1a	1681	1/1	0.89	0.15	77,77,77,77	0
56	MG	1x	106	1/1	0.89	0.23	64,64,64,64	0
56	MG	2a	1758	1/1	0.89	0.10	78,78,78,78	0
56	MG	1A	3339	1/1	0.89	0.21	50,50,50,50	0
56	MG	2B	211	1/1	0.89	0.18	62,62,62,62	0
56	MG	1A	4072	1/1	0.89	0.11	24,24,24,24	0
56	MG	1A	3300	1/1	0.89	0.26	57,57,57,57	0
56	MG	1A	3543	1/1	0.89	0.21	45,45,45,45	0
56	MG	2A	3207	1/1	0.89	0.12	68,68,68,68	0
56	MG	1A	3234	1/1	0.89	0.13	57,57,57,57	0
56	MG	2E	303	1/1	0.89	0.22	61,61,61,61	0
56	MG	2A	3584	1/1	0.89	0.12	51,51,51,51	0
56	MG	2A	3586	1/1	0.89	0.14	66,66,66,66	0
56	MG	2A	3215	1/1	0.89	0.21	83,83,83,83	0
56	MG	2A	3591	1/1	0.89	0.10	60,60,60,60	0
56	MG	2F	306	1/1	0.89	0.17	69,69,69,69	0
56	MG	1a	1697	1/1	0.89	0.28	56,56,56,56	0
56	MG	2A	3598	1/1	0.89	0.17	70,70,70,70	0
56	MG	2a	1800	1/1	0.89	0.25	75,75,75,75	0
56	MG	1T	203	1/1	0.89	0.18	48,48,48,48	0
56	MG	2a	1805	1/1	0.89	0.22	72,72,72,72	0
56	MG	2V	201	1/1	0.89	0.32	57,57,57,57	0
56	MG	1U	203	1/1	0.89	0.20	37,37,37,37	0
56	MG	2W	201	1/1	0.89	0.12	65,65,65,65	0
56	MG	1A	4082	1/1	0.89	0.27	68,68,68,68	0
56	MG	2A	3052	1/1	0.89	0.11	52,52,52,52	0
56	MG	2a	1812	1/1	0.89	0.14	75,75,75,75	0
56	MG	2A	3613	1/1	0.89	0.11	40,40,40,40	0
56	MG	20	102	1/1	0.89	0.14	76,76,76,76	0
56	MG	21	102	1/1	0.89	0.39	59,59,59,59	0
56	MG	2A	3226	1/1	0.89	0.14	56,56,56,56	0
56	MG	2A	3620	1/1	0.89	0.17	64,64,64,64	0
56	MG	1A	4084	1/1	0.89	0.21	64,64,64,64	0
56	MG	28	101	1/1	0.89	0.28	71,71,71,71	0
56	MG	2A	3373	1/1	0.89	0.19	51,51,51,51	0
56	MG	1a	1709	1/1	0.89	0.14	54,54,54,54	0
56	MG	1A	3346	1/1	0.89	0.26	43,43,43,43	0
56	MG	2A	3233	1/1	0.89	0.21	56,56,56,56	0
56	MG	2a	1834	1/1	0.89	0.24	71,71,71,71	0
56	MG	2A	3378	1/1	0.89	0.18	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3124	1/1	0.89	0.09	45,45,45,45	0
56	MG	1A	3314	1/1	0.89	0.20	54,54,54,54	0
56	MG	2A	3237	1/1	0.89	0.20	75,75,75,75	0
56	MG	1A	3193	1/1	0.89	0.15	58,58,58,58	0
56	MG	11	105	1/1	0.89	0.11	67,67,67,67	0
56	MG	2a	1613	1/1	0.89	0.22	66,66,66,66	0
56	MG	2A	3247	1/1	0.89	0.20	74,74,74,74	0
56	MG	2A	3396	1/1	0.89	0.11	78,78,78,78	0
56	MG	2r	102	1/1	0.89	0.09	78,78,78,78	0
56	MG	2A	3069	1/1	0.89	0.15	65,65,65,65	0
56	MG	2A	3670	1/1	0.89	0.22	73,73,73,73	0
56	MG	1A	3326	1/1	0.89	0.15	48,48,48,48	0
56	MG	2A	3673	1/1	0.89	0.15	78,78,78,78	0
56	MG	17	104	1/1	0.89	0.14	52,52,52,52	0
56	MG	1A	3852	1/1	0.89	0.10	60,60,60,60	0
56	MG	2A	3403	1/1	0.89	0.13	70,70,70,70	0
56	MG	1A	4101	1/1	0.89	0.29	60,60,60,60	0
56	MG	1A	3859	1/1	0.89	0.10	67,67,67,67	0
56	MG	1A	3197	1/1	0.89	0.43	72,72,72,72	0
56	MG	1A	3867	1/1	0.89	0.11	54,54,54,54	0
56	MG	2a	1631	1/1	0.89	0.12	60,60,60,60	0
56	MG	1A	3362	1/1	0.89	0.18	64,64,64,64	0
56	MG	2x	103	1/1	0.89	0.20	76,76,76,76	0
56	MG	1A	3258	1/1	0.89	0.13	80,80,80,80	0
56	MG	1A	3458	1/1	0.89	0.26	56,56,56,56	0
56	MG	2y	101	1/1	0.89	0.10	77,77,77,77	0
56	MG	1A	3763	1/1	0.89	0.13	52,52,52,52	0
56	MG	1a	1630	1/1	0.89	0.10	61,61,61,61	0
56	MG	2a	1638	1/1	0.89	0.28	67,67,67,67	0
56	MG	2A	3416	1/1	0.89	0.20	50,50,50,50	0
56	MG	1A	3040	1/1	0.89	0.12	62,62,62,62	0
56	MG	2A	3684	1/1	0.90	0.26	65,65,65,65	0
56	MG	1A	3732	1/1	0.90	0.09	48,48,48,48	0
56	MG	1a	1682	1/1	0.90	0.26	70,70,70,70	0
56	MG	1y	101	1/1	0.90	0.15	48,48,48,48	0
56	MG	2A	3001	1/1	0.90	0.50	71,71,71,71	0
56	MG	2A	3005	1/1	0.90	0.32	77,77,77,77	0
56	MG	2A	3698	1/1	0.90	0.11	71,71,71,71	0
56	MG	2A	3402	1/1	0.90	0.14	80,80,80,80	0
56	MG	2A	3234	1/1	0.90	0.19	65,65,65,65	0
56	MG	2a	1646	1/1	0.90	0.17	63,63,63,63	0
56	MG	2A	3404	1/1	0.90	0.20	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1G	204	1/1	0.90	0.08	73,73,73,73	0
56	MG	2a	1652	1/1	0.90	0.11	79,79,79,79	0
56	MG	1A	3890	1/1	0.90	0.13	31,31,31,31	0
56	MG	2a	1654	1/1	0.90	0.14	76,76,76,76	0
56	MG	2A	3017	1/1	0.90	0.17	46,46,46,46	0
56	MG	1N	202	1/1	0.90	0.10	51,51,51,51	0
56	MG	2A	3726	1/1	0.90	0.08	56,56,56,56	0
56	MG	2A	3728	1/1	0.90	0.10	60,60,60,60	0
56	MG	2A	3243	1/1	0.90	0.24	61,61,61,61	0
56	MG	1a	1686	1/1	0.90	0.27	71,71,71,71	0
56	MG	2A	3036	1/1	0.90	0.18	50,50,50,50	0
56	MG	1a	1687	1/1	0.90	0.36	73,73,73,73	0
56	MG	2A	3249	1/1	0.90	0.17	68,68,68,68	0
56	MG	2A	3042	1/1	0.90	0.26	59,59,59,59	0
56	MG	2a	1672	1/1	0.90	0.12	72,72,72,72	0
56	MG	1a	1688	1/1	0.90	0.07	65,65,65,65	0
56	MG	1A	3216	1/1	0.90	0.09	52,52,52,52	0
56	MG	1a	1694	1/1	0.90	0.25	57,57,57,57	0
56	MG	1A	3088	1/1	0.90	0.18	35,35,35,35	0
56	MG	1O	205	1/1	0.90	0.16	69,69,69,69	0
56	MG	2A	3258	1/1	0.90	0.20	59,59,59,59	0
56	MG	1A	3902	1/1	0.90	0.12	32,32,32,32	0
56	MG	1A	3233	1/1	0.90	0.15	54,54,54,54	0
56	MG	1a	1701	1/1	0.90	0.20	62,62,62,62	0
56	MG	2A	3265	1/1	0.90	0.21	69,69,69,69	0
56	MG	1T	201	1/1	0.90	0.17	59,59,59,59	0
56	MG	1A	3907	1/1	0.90	0.16	50,50,50,50	0
56	MG	1a	1708	1/1	0.90	0.42	79,79,79,79	0
56	MG	2A	3440	1/1	0.90	0.24	68,68,68,68	0
56	MG	2A	3441	1/1	0.90	0.28	65,65,65,65	0
56	MG	2A	3073	1/1	0.90	0.11	64,64,64,64	0
56	MG	2A	3080	1/1	0.90	0.14	53,53,53,53	0
56	MG	1A	3909	1/1	0.90	0.16	40,40,40,40	0
56	MG	1A	3319	1/1	0.90	0.12	59,59,59,59	0
56	MG	1A	3914	1/1	0.90	0.21	54,54,54,54	0
56	MG	1A	3785	1/1	0.90	0.10	40,40,40,40	0
56	MG	1a	1715	1/1	0.90	0.23	55,55,55,55	0
56	MG	2A	3797	1/1	0.90	0.10	64,64,64,64	0
56	MG	2a	1719	1/1	0.90	0.14	74,74,74,74	0
56	MG	2A	3798	1/1	0.90	0.10	71,71,71,71	0
56	MG	1A	3923	1/1	0.90	0.34	64,64,64,64	0
56	MG	2A	3281	1/1	0.90	0.29	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3465	1/1	0.90	0.10	66,66,66,66	0
56	MG	1A	3787	1/1	0.90	0.18	67,67,67,67	0
56	MG	2A	3808	1/1	0.90	0.11	62,62,62,62	0
56	MG	2A	3470	1/1	0.90	0.22	70,70,70,70	0
56	MG	2A	3816	1/1	0.90	0.11	65,65,65,65	0
56	MG	2a	1734	1/1	0.90	0.18	65,65,65,65	0
56	MG	1A	3016	1/1	0.90	0.33	56,56,56,56	0
56	MG	2A	3097	1/1	0.90	0.21	70,70,70,70	0
56	MG	1A	3959	1/1	0.90	0.14	58,58,58,58	0
56	MG	1A	3618	1/1	0.90	0.11	35,35,35,35	0
56	MG	1A	4087	1/1	0.90	0.09	47,47,47,47	0
56	MG	14	101	1/1	0.90	0.12	70,70,70,70	0
56	MG	2A	3484	1/1	0.90	0.12	53,53,53,53	0
56	MG	1A	3966	1/1	0.90	0.11	60,60,60,60	0
56	MG	1A	3969	1/1	0.90	0.07	40,40,40,40	0
56	MG	1A	3620	1/1	0.90	0.14	52,52,52,52	0
56	MG	1a	1747	1/1	0.90	0.11	56,56,56,56	0
56	MG	2A	3304	1/1	0.90	0.16	65,65,65,65	0
56	MG	1A	3421	1/1	0.90	0.08	46,46,46,46	0
56	MG	2A	3308	1/1	0.90	0.13	75,75,75,75	0
56	MG	1a	1606	1/1	0.90	0.09	72,72,72,72	0
56	MG	1A	4094	1/1	0.90	0.17	58,58,58,58	0
56	MG	1a	1760	1/1	0.90	0.24	64,64,64,64	0
56	MG	2A	3313	1/1	0.90	0.15	65,65,65,65	0
56	MG	2B	203	1/1	0.90	0.19	80,80,80,80	0
56	MG	2B	205	1/1	0.90	0.11	65,65,65,65	0
56	MG	2a	1777	1/1	0.90	0.08	90,90,90,90	0
56	MG	2a	1778	1/1	0.90	0.17	78,78,78,78	0
56	MG	2a	1779	1/1	0.90	0.10	73,73,73,73	0
56	MG	2A	3119	1/1	0.90	0.21	68,68,68,68	0
56	MG	1A	3422	1/1	0.90	0.23	71,71,71,71	0
56	MG	1A	3813	1/1	0.90	0.16	64,64,64,64	0
56	MG	1A	4102	1/1	0.90	0.36	65,65,65,65	0
56	MG	1A	3239	1/1	0.90	0.13	52,52,52,52	0
56	MG	2A	3535	1/1	0.90	0.15	70,70,70,70	0
56	MG	2B	215	1/1	0.90	0.24	72,72,72,72	0
56	MG	1a	1768	1/1	0.90	0.15	59,59,59,59	0
56	MG	1A	3369	1/1	0.90	0.25	42,42,42,42	0
56	MG	2B	220	1/1	0.90	0.12	78,78,78,78	0
56	MG	1A	3247	1/1	0.90	0.19	62,62,62,62	0
56	MG	2E	302	1/1	0.90	0.22	66,66,66,66	0
56	MG	2A	3149	1/1	0.90	0.24	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3560	1/1	0.90	0.12	56,56,56,56	0
56	MG	1a	1777	1/1	0.90	0.12	75,75,75,75	0
56	MG	2A	3332	1/1	0.90	0.14	64,64,64,64	0
56	MG	2A	3157	1/1	0.90	0.22	56,56,56,56	0
56	MG	1A	3170	1/1	0.90	0.11	53,53,53,53	0
56	MG	2a	1814	1/1	0.90	0.16	72,72,72,72	0
56	MG	1A	3550	1/1	0.90	0.18	61,61,61,61	0
56	MG	2A	3336	1/1	0.90	0.20	63,63,63,63	0
56	MG	1a	1786	1/1	0.90	0.16	58,58,58,58	0
56	MG	2Q	203	1/1	0.90	0.12	57,57,57,57	0
56	MG	2A	3173	1/1	0.90	0.21	79,79,79,79	0
56	MG	2a	1820	1/1	0.90	0.16	76,76,76,76	0
56	MG	2A	3174	1/1	0.90	0.14	66,66,66,66	0
56	MG	1A	3492	1/1	0.90	0.25	58,58,58,58	0
56	MG	2a	1824	1/1	0.90	0.22	74,74,74,74	0
56	MG	1a	1803	1/1	0.90	0.08	81,81,81,81	0
56	MG	2X	101	1/1	0.90	0.09	73,73,73,73	0
56	MG	2A	3597	1/1	0.90	0.13	60,60,60,60	0
56	MG	1a	1636	1/1	0.90	0.23	65,65,65,65	0
56	MG	2a	1832	1/1	0.90	0.15	78,78,78,78	0
56	MG	1A	3295	1/1	0.90	0.11	48,48,48,48	0
56	MG	2a	1835	1/1	0.90	0.13	54,54,54,54	0
56	MG	2a	1836	1/1	0.90	0.32	76,76,76,76	0
56	MG	21	101	1/1	0.90	0.18	79,79,79,79	0
56	MG	2a	1839	1/1	0.90	0.25	62,62,62,62	0
56	MG	1A	3389	1/1	0.90	0.16	54,54,54,54	0
56	MG	2d	301	1/1	0.90	0.25	66,66,66,66	0
56	MG	2A	3190	1/1	0.90	0.14	78,78,78,78	0
56	MG	1A	3717	1/1	0.90	0.14	56,56,56,56	0
56	MG	1A	4016	1/1	0.90	0.09	45,45,45,45	0
56	MG	27	101	1/1	0.90	0.22	68,68,68,68	0
56	MG	2A	3615	1/1	0.90	0.09	55,55,55,55	0
56	MG	1B	233	1/1	0.90	0.13	52,52,52,52	0
56	MG	2A	3364	1/1	0.90	0.13	66,66,66,66	0
56	MG	1A	3850	1/1	0.90	0.20	51,51,51,51	0
56	MG	2A	3367	1/1	0.90	0.19	73,73,73,73	0
56	MG	1A	3718	1/1	0.90	0.09	72,72,72,72	0
56	MG	1n	101	1/1	0.90	0.14	65,65,65,65	0
56	MG	2A	3648	1/1	0.90	0.21	64,64,64,64	0
56	MG	1A	3569	1/1	0.90	0.38	77,77,77,77	0
56	MG	1t	201	1/1	0.90	0.16	60,60,60,60	0
56	MG	1a	1658	1/1	0.90	0.26	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3394	1/1	0.90	0.11	50,50,50,50	0
56	MG	1A	4035	1/1	0.90	0.26	61,61,61,61	0
56	MG	2A	3657	1/1	0.90	0.12	67,67,67,67	0
56	MG	1E	309	1/1	0.90	0.14	51,51,51,51	0
56	MG	1a	1668	1/1	0.90	0.25	61,61,61,61	0
56	MG	1a	1670	1/1	0.90	0.30	71,71,71,71	0
56	MG	2A	3381	1/1	0.90	0.19	69,69,69,69	0
56	MG	1A	3581	1/1	0.90	0.20	39,39,39,39	0
56	MG	2A	3383	1/1	0.90	0.28	56,56,56,56	0
56	MG	1A	3455	1/1	0.90	0.13	56,56,56,56	0
56	MG	1A	4042	1/1	0.90	0.12	44,44,44,44	0
56	MG	2A	3391	1/1	0.90	0.17	66,66,66,66	0
56	MG	1A	3138	1/1	0.90	0.13	48,48,48,48	0
56	MG	2A	3394	1/1	0.90	0.19	58,58,58,58	0
56	MG	1x	110	1/1	0.90	0.15	75,75,75,75	0
56	MG	1A	3981	1/1	0.91	0.09	64,64,64,64	0
56	MG	2A	3225	1/1	0.91	0.34	47,47,47,47	0
56	MG	2A	3345	1/1	0.91	0.16	73,73,73,73	0
56	MG	1A	3818	1/1	0.91	0.10	68,68,68,68	0
56	MG	2A	3767	1/1	0.91	0.16	50,50,50,50	0
56	MG	2A	3770	1/1	0.91	0.11	74,74,74,74	0
56	MG	2A	3075	1/1	0.91	0.17	66,66,66,66	0
56	MG	2A	3349	1/1	0.91	0.10	77,77,77,77	0
56	MG	2a	1665	1/1	0.91	0.10	67,67,67,67	0
56	MG	2a	1666	1/1	0.91	0.21	73,73,73,73	0
56	MG	2a	1667	1/1	0.91	0.14	86,86,86,86	0
56	MG	1a	1669	1/1	0.91	0.27	66,66,66,66	0
56	MG	2A	3354	1/1	0.91	0.10	58,58,58,58	0
56	MG	1A	3061	1/1	0.91	0.11	53,53,53,53	0
56	MG	2A	3791	1/1	0.91	0.12	78,78,78,78	0
56	MG	1a	1783	1/1	0.91	0.09	64,64,64,64	0
56	MG	1A	3832	1/1	0.91	0.11	48,48,48,48	0
56	MG	2A	3795	1/1	0.91	0.15	58,58,58,58	0
56	MG	2a	1683	1/1	0.91	0.17	63,63,63,63	0
56	MG	2A	3505	1/1	0.91	0.17	61,61,61,61	0
56	MG	1A	3684	1/1	0.91	0.12	51,51,51,51	0
56	MG	2A	3361	1/1	0.91	0.10	61,61,61,61	0
56	MG	2A	3799	1/1	0.91	0.13	65,65,65,65	0
56	MG	2A	3512	1/1	0.91	0.12	70,70,70,70	0
56	MG	1A	3544	1/1	0.91	0.21	43,43,43,43	0
56	MG	2a	1695	1/1	0.91	0.25	63,63,63,63	0
56	MG	2A	3520	1/1	0.91	0.19	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1697	1/1	0.91	0.15	63,63,63,63	0
56	MG	2A	3522	1/1	0.91	0.12	64,64,64,64	0
56	MG	2a	1699	1/1	0.91	0.19	78,78,78,78	0
56	MG	1a	1801	1/1	0.91	0.15	61,61,61,61	0
56	MG	2a	1701	1/1	0.91	0.15	51,51,51,51	0
56	MG	1A	4092	1/1	0.91	0.11	64,64,64,64	0
56	MG	2a	1703	1/1	0.91	0.18	72,72,72,72	0
56	MG	2A	3240	1/1	0.91	0.18	63,63,63,63	0
56	MG	2a	1705	1/1	0.91	0.35	71,71,71,71	0
56	MG	2A	3819	1/1	0.91	0.16	63,63,63,63	0
56	MG	1A	3545	1/1	0.91	0.28	56,56,56,56	0
56	MG	1A	3063	1/1	0.91	0.28	57,57,57,57	0
56	MG	2A	3548	1/1	0.91	0.13	55,55,55,55	0
56	MG	2A	3246	1/1	0.91	0.11	65,65,65,65	0
56	MG	2a	1712	1/1	0.91	0.17	75,75,75,75	0
56	MG	2A	3557	1/1	0.91	0.18	43,43,43,43	0
56	MG	1A	3494	1/1	0.91	0.34	64,64,64,64	0
56	MG	1A	3554	1/1	0.91	0.21	56,56,56,56	0
56	MG	1a	1815	1/1	0.91	0.08	69,69,69,69	0
56	MG	11	103	1/1	0.91	0.14	50,50,50,50	0
56	MG	2A	3573	1/1	0.91	0.12	66,66,66,66	0
56	MG	1A	3498	1/1	0.91	0.17	52,52,52,52	0
56	MG	2A	3859	1/1	0.91	0.09	59,59,59,59	0
56	MG	2A	3578	1/1	0.91	0.14	54,54,54,54	0
56	MG	1A	3024	1/1	0.91	0.12	59,59,59,59	0
56	MG	1B	209	1/1	0.91	0.23	63,63,63,63	0
56	MG	2A	3866	1/1	0.91	0.16	58,58,58,58	0
56	MG	2a	1733	1/1	0.91	0.18	79,79,79,79	0
56	MG	1A	3559	1/1	0.91	0.19	60,60,60,60	0
56	MG	1A	3566	1/1	0.91	0.22	46,46,46,46	0
56	MG	2A	3875	1/1	0.91	0.09	52,52,52,52	0
56	MG	2A	3257	1/1	0.91	0.18	64,64,64,64	0
56	MG	1a	1602	1/1	0.91	0.35	69,69,69,69	0
56	MG	2B	202	1/1	0.91	0.12	67,67,67,67	0
56	MG	1A	4020	1/1	0.91	0.16	49,49,49,49	0
56	MG	2A	3262	1/1	0.91	0.10	54,54,54,54	0
56	MG	1A	3135	1/1	0.91	0.17	52,52,52,52	0
56	MG	1A	3046	1/1	0.91	0.09	34,34,34,34	0
56	MG	1A	3464	1/1	0.91	0.12	42,42,42,42	0
56	MG	2A	3124	1/1	0.91	0.22	63,63,63,63	0
56	MG	2A	3605	1/1	0.91	0.17	68,68,68,68	0
56	MG	2a	1752	1/1	0.91	0.15	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3588	1/1	0.91	0.17	67,67,67,67	0
56	MG	2A	3611	1/1	0.91	0.13	62,62,62,62	0
56	MG	2A	3129	1/1	0.91	0.16	69,69,69,69	0
56	MG	2B	217	1/1	0.91	0.12	70,70,70,70	0
56	MG	1A	3510	1/1	0.91	0.10	57,57,57,57	0
56	MG	1a	1707	1/1	0.91	0.14	60,60,60,60	0
56	MG	2A	3401	1/1	0.91	0.15	61,61,61,61	0
56	MG	2E	301	1/1	0.91	0.22	71,71,71,71	0
56	MG	1A	3305	1/1	0.91	0.13	39,39,39,39	0
56	MG	2A	3639	1/1	0.91	0.13	53,53,53,53	0
56	MG	1x	104	1/1	0.91	0.19	64,64,64,64	0
56	MG	1a	1624	1/1	0.91	0.21	66,66,66,66	0
56	MG	1A	3515	1/1	0.91	0.13	61,61,61,61	0
56	MG	2a	1786	1/1	0.91	0.14	61,61,61,61	0
56	MG	2A	3647	1/1	0.91	0.06	49,49,49,49	0
56	MG	1a	1626	1/1	0.91	0.27	63,63,63,63	0
56	MG	2a	1793	1/1	0.91	0.26	82,82,82,82	0
56	MG	2A	3278	1/1	0.91	0.09	59,59,59,59	0
56	MG	2O	201	1/1	0.91	0.18	64,64,64,64	0
56	MG	1A	3744	1/1	0.91	0.07	45,45,45,45	0
56	MG	2A	3160	1/1	0.91	0.12	70,70,70,70	0
56	MG	2A	3283	1/1	0.91	0.21	65,65,65,65	0
56	MG	2T	202	1/1	0.91	0.12	59,59,59,59	0
56	MG	1A	3746	1/1	0.91	0.09	53,53,53,53	0
56	MG	2a	1802	1/1	0.91	0.10	66,66,66,66	0
56	MG	1a	1718	1/1	0.91	0.35	69,69,69,69	0
56	MG	1y	102	1/1	0.91	0.08	81,81,81,81	0
56	MG	1A	3905	1/1	0.91	0.09	50,50,50,50	0
56	MG	2W	204	1/1	0.91	0.13	69,69,69,69	0
56	MG	2A	3003	1/1	0.91	0.35	66,66,66,66	0
56	MG	2A	3418	1/1	0.91	0.33	65,65,65,65	0
56	MG	1A	3748	1/1	0.91	0.12	36,36,36,36	0
56	MG	2A	3667	1/1	0.91	0.12	66,66,66,66	0
56	MG	2A	3668	1/1	0.91	0.23	75,75,75,75	0
56	MG	2A	3669	1/1	0.91	0.15	55,55,55,55	0
56	MG	1A	3751	1/1	0.91	0.23	60,60,60,60	0
56	MG	2A	3671	1/1	0.91	0.16	60,60,60,60	0
56	MG	2A	3177	1/1	0.91	0.12	64,64,64,64	0
56	MG	2A	3422	1/1	0.91	0.20	51,51,51,51	0
56	MG	2a	1821	1/1	0.91	0.23	67,67,67,67	0
56	MG	1A	3365	1/1	0.91	0.15	58,58,58,58	0
56	MG	2A	3180	1/1	0.91	0.20	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	3299	1/1	0.91	0.30	71,71,71,71	0
56	MG	1A	3256	1/1	0.91	0.11	30,30,30,30	0
56	MG	2a	1826	1/1	0.91	0.19	74,74,74,74	0
56	MG	2a	1827	1/1	0.91	0.13	74,74,74,74	0
56	MG	2A	3018	1/1	0.91	0.13	56,56,56,56	0
56	MG	2A	3187	1/1	0.91	0.20	59,59,59,59	0
56	MG	2A	3307	1/1	0.91	0.12	53,53,53,53	0
56	MG	1a	1639	1/1	0.91	0.17	61,61,61,61	0
56	MG	2a	1833	1/1	0.91	0.20	73,73,73,73	0
56	MG	2A	3693	1/1	0.91	0.10	65,65,65,65	0
56	MG	2A	3437	1/1	0.91	0.27	62,62,62,62	0
56	MG	2a	1611	1/1	0.91	0.40	69,69,69,69	0
56	MG	2A	3028	1/1	0.91	0.18	55,55,55,55	0
56	MG	2A	3029	1/1	0.91	0.12	72,72,72,72	0
56	MG	2A	3699	1/1	0.91	0.18	71,71,71,71	0
56	MG	2a	1841	1/1	0.91	0.15	64,64,64,64	0
56	MG	2A	3194	1/1	0.91	0.21	69,69,69,69	0
56	MG	1A	3765	1/1	0.91	0.15	53,53,53,53	0
56	MG	2A	3713	1/1	0.91	0.11	48,48,48,48	0
56	MG	2A	3714	1/1	0.91	0.12	57,57,57,57	0
56	MG	1A	3368	1/1	0.91	0.16	64,64,64,64	0
56	MG	2A	3447	1/1	0.91	0.14	51,51,51,51	0
56	MG	2A	3448	1/1	0.91	0.47	69,69,69,69	0
56	MG	1a	1645	1/1	0.91	0.18	63,63,63,63	0
56	MG	1A	3605	1/1	0.91	0.24	59,59,59,59	0
56	MG	2A	3045	1/1	0.91	0.13	73,73,73,73	0
56	MG	1A	3227	1/1	0.91	0.17	52,52,52,52	0
56	MG	2A	3457	1/1	0.91	0.32	69,69,69,69	0
56	MG	1A	3260	1/1	0.91	0.06	37,37,37,37	0
56	MG	1A	3185	1/1	0.91	0.12	68,68,68,68	0
56	MG	2a	1633	1/1	0.91	0.31	70,70,70,70	0
56	MG	1a	1651	1/1	0.91	0.30	72,72,72,72	0
56	MG	2A	3464	1/1	0.91	0.31	53,53,53,53	0
56	MG	2w	104	1/1	0.91	0.14	68,68,68,68	0
56	MG	1A	3189	1/1	0.91	0.10	45,45,45,45	0
56	MG	2A	3327	1/1	0.91	0.16	65,65,65,65	0
56	MG	2A	3061	1/1	0.91	0.17	61,61,61,61	0
56	MG	2A	3214	1/1	0.91	0.20	73,73,73,73	0
56	MG	1a	1657	1/1	0.91	0.25	63,63,63,63	0
56	MG	2a	1644	1/1	0.91	0.22	70,70,70,70	0
56	MG	1A	3438	1/1	0.91	0.12	59,59,59,59	0
56	MG	1a	1661	1/1	0.91	0.14	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3004	1/1	0.91	0.10	28,28,28,28	0
56	MG	2A	3222	1/1	0.91	0.21	62,62,62,62	0
56	MG	2A	3340	1/1	0.91	0.09	74,74,74,74	0
56	MG	2A	3753	1/1	0.91	0.14	55,55,55,55	0
56	MG	1A	3659	1/1	0.91	0.11	51,51,51,51	0
56	MG	2a	1655	1/1	0.91	0.21	71,71,71,71	0
56	MG	1A	3551	1/1	0.92	0.21	57,57,57,57	0
56	MG	1A	3930	1/1	0.92	0.09	28,28,28,28	0
56	MG	1x	107	1/1	0.92	0.19	71,71,71,71	0
56	MG	1B	218	1/1	0.92	0.09	51,51,51,51	0
56	MG	1A	3377	1/1	0.92	0.12	45,45,45,45	0
56	MG	1a	1659	1/1	0.92	0.12	67,67,67,67	0
56	MG	1a	1660	1/1	0.92	0.14	69,69,69,69	0
56	MG	1x	114	1/1	0.92	0.13	57,57,57,57	0
56	MG	1B	223	1/1	0.92	0.11	59,59,59,59	0
56	MG	1B	225	1/1	0.92	0.07	50,50,50,50	0
56	MG	1A	3381	1/1	0.92	0.11	48,48,48,48	0
56	MG	1a	1664	1/1	0.92	0.26	77,77,77,77	0
56	MG	1a	1665	1/1	0.92	0.12	61,61,61,61	0
56	MG	1A	3556	1/1	0.92	0.11	59,59,59,59	0
56	MG	2A	3706	1/1	0.92	0.16	63,63,63,63	0
56	MG	2A	3707	1/1	0.92	0.23	60,60,60,60	0
56	MG	2A	3010	1/1	0.92	0.12	56,56,56,56	0
56	MG	1A	3960	1/1	0.92	0.09	48,48,48,48	0
56	MG	1A	3961	1/1	0.92	0.10	53,53,53,53	0
56	MG	2A	3716	1/1	0.92	0.12	54,54,54,54	0
56	MG	2A	3242	1/1	0.92	0.19	66,66,66,66	0
56	MG	1A	3132	1/1	0.92	0.09	45,45,45,45	0
56	MG	2A	3020	1/1	0.92	0.11	61,61,61,61	0
56	MG	1A	3965	1/1	0.92	0.09	34,34,34,34	0
56	MG	1A	3173	1/1	0.92	0.13	45,45,45,45	0
56	MG	1a	1677	1/1	0.92	0.35	67,67,67,67	0
56	MG	2A	3031	1/1	0.92	0.15	69,69,69,69	0
56	MG	1D	312	1/1	0.92	0.15	46,46,46,46	0
56	MG	1A	3745	1/1	0.92	0.10	46,46,46,46	0
56	MG	2a	1668	1/1	0.92	0.30	75,75,75,75	0
56	MG	1A	3976	1/1	0.92	0.10	60,60,60,60	0
56	MG	2A	3429	1/1	0.92	0.30	67,67,67,67	0
56	MG	2A	3041	1/1	0.92	0.32	69,69,69,69	0
56	MG	2a	1675	1/1	0.92	0.19	65,65,65,65	0
56	MG	2A	3738	1/1	0.92	0.16	64,64,64,64	0
56	MG	1A	3183	1/1	0.92	0.18	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	3276	1/1	0.92	0.08	40,40,40,40	0
56	MG	1E	310	1/1	0.92	0.16	66,66,66,66	0
56	MG	1A	3567	1/1	0.92	0.20	40,40,40,40	0
56	MG	2A	3053	1/1	0.92	0.11	69,69,69,69	0
56	MG	1A	3400	1/1	0.92	0.10	66,66,66,66	0
56	MG	1A	3758	1/1	0.92	0.12	38,38,38,38	0
56	MG	2a	1688	1/1	0.92	0.20	56,56,56,56	0
56	MG	1A	3236	1/1	0.92	0.10	58,58,58,58	0
56	MG	2a	1690	1/1	0.92	0.21	70,70,70,70	0
56	MG	1A	3573	1/1	0.92	0.10	50,50,50,50	0
56	MG	2A	3444	1/1	0.92	0.23	84,84,84,84	0
56	MG	2a	1694	1/1	0.92	0.15	70,70,70,70	0
56	MG	1G	203	1/1	0.92	0.08	70,70,70,70	0
56	MG	1A	3776	1/1	0.92	0.09	18,18,18,18	0
56	MG	2A	3756	1/1	0.92	0.12	63,63,63,63	0
56	MG	1A	3411	1/1	0.92	0.11	41,41,41,41	0
56	MG	2A	3066	1/1	0.92	0.36	71,71,71,71	0
56	MG	2A	3451	1/1	0.92	0.29	64,64,64,64	0
56	MG	1A	3585	1/1	0.92	0.12	33,33,33,33	0
56	MG	1A	3487	1/1	0.92	0.09	57,57,57,57	0
56	MG	1A	3590	1/1	0.92	0.18	62,62,62,62	0
56	MG	2A	3456	1/1	0.92	0.32	64,64,64,64	0
56	MG	1A	3593	1/1	0.92	0.12	39,39,39,39	0
56	MG	1A	3803	1/1	0.92	0.10	41,41,41,41	0
56	MG	1A	4012	1/1	0.92	0.07	23,23,23,23	0
56	MG	1S	202	1/1	0.92	0.11	52,52,52,52	0
56	MG	2A	3085	1/1	0.92	0.12	57,57,57,57	0
56	MG	1A	3488	1/1	0.92	0.14	58,58,58,58	0
56	MG	2A	3468	1/1	0.92	0.25	72,72,72,72	0
56	MG	2A	3282	1/1	0.92	0.22	64,64,64,64	0
56	MG	2a	1714	1/1	0.92	0.09	63,63,63,63	0
56	MG	1A	3806	1/1	0.92	0.07	49,49,49,49	0
56	MG	1A	3089	1/1	0.92	0.11	43,43,43,43	0
56	MG	1A	3413	1/1	0.92	0.13	55,55,55,55	0
56	MG	2A	3476	1/1	0.92	0.08	61,61,61,61	0
56	MG	2A	3288	1/1	0.92	0.12	78,78,78,78	0
56	MG	1U	204	1/1	0.92	0.13	49,49,49,49	0
56	MG	1a	1716	1/1	0.92	0.39	57,57,57,57	0
56	MG	1U	209	1/1	0.92	0.17	58,58,58,58	0
56	MG	2A	3096	1/1	0.92	0.07	48,48,48,48	0
56	MG	2a	1729	1/1	0.92	0.21	79,79,79,79	0
56	MG	1A	3296	1/1	0.92	0.19	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1V	206	1/1	0.92	0.07	48,48,48,48	0
56	MG	2A	3487	1/1	0.92	0.11	46,46,46,46	0
56	MG	2A	3826	1/1	0.92	0.10	50,50,50,50	0
56	MG	2A	3296	1/1	0.92	0.22	73,73,73,73	0
56	MG	2A	3490	1/1	0.92	0.08	59,59,59,59	0
56	MG	2A	3830	1/1	0.92	0.13	65,65,65,65	0
56	MG	2A	3833	1/1	0.92	0.12	53,53,53,53	0
56	MG	1A	3080	1/1	0.92	0.09	69,69,69,69	0
56	MG	1A	3821	1/1	0.92	0.15	56,56,56,56	0
56	MG	2A	3844	1/1	0.92	0.10	63,63,63,63	0
56	MG	1A	3059	1/1	0.92	0.32	64,64,64,64	0
56	MG	1a	1729	1/1	0.92	0.18	66,66,66,66	0
56	MG	2a	1748	1/1	0.92	0.20	66,66,66,66	0
56	MG	2A	3496	1/1	0.92	0.14	44,44,44,44	0
56	MG	2A	3303	1/1	0.92	0.34	54,54,54,54	0
56	MG	1A	3829	1/1	0.92	0.09	39,39,39,39	0
56	MG	10	104	1/1	0.92	0.22	67,67,67,67	0
56	MG	1A	4040	1/1	0.92	0.09	43,43,43,43	0
56	MG	2A	3860	1/1	0.92	0.13	66,66,66,66	0
56	MG	2a	1760	1/1	0.92	0.10	83,83,83,83	0
56	MG	1A	3603	1/1	0.92	0.18	48,48,48,48	0
56	MG	1A	3302	1/1	0.92	0.12	46,46,46,46	0
56	MG	2A	3507	1/1	0.92	0.10	65,65,65,65	0
56	MG	11	106	1/1	0.92	0.10	52,52,52,52	0
56	MG	2A	3509	1/1	0.92	0.11	59,59,59,59	0
56	MG	1A	3352	1/1	0.92	0.20	31,31,31,31	0
56	MG	2a	1774	1/1	0.92	0.10	71,71,71,71	0
56	MG	1A	3611	1/1	0.92	0.11	57,57,57,57	0
56	MG	14	102	1/1	0.92	0.13	64,64,64,64	0
56	MG	1a	1758	1/1	0.92	0.06	58,58,58,58	0
56	MG	2A	3521	1/1	0.92	0.10	59,59,59,59	0
56	MG	15	106	1/1	0.92	0.10	57,57,57,57	0
56	MG	2A	3524	1/1	0.92	0.24	69,69,69,69	0
56	MG	2A	3126	1/1	0.92	0.08	60,60,60,60	0
56	MG	2a	1788	1/1	0.92	0.08	68,68,68,68	0
56	MG	2A	3127	1/1	0.92	0.07	77,77,77,77	0
56	MG	1A	3424	1/1	0.92	0.15	59,59,59,59	0
56	MG	1a	1762	1/1	0.92	0.11	60,60,60,60	0
56	MG	18	106	1/1	0.92	0.10	44,44,44,44	0
56	MG	1A	3509	1/1	0.92	0.11	62,62,62,62	0
56	MG	2A	3142	1/1	0.92	0.23	66,66,66,66	0
56	MG	19	101	1/1	0.92	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	2A	3331	1/1	0.92	0.14	70,70,70,70	0
56	MG	2B	218	1/1	0.92	0.14	77,77,77,77	0
56	MG	2A	3561	1/1	0.92	0.12	65,65,65,65	0
56	MG	1A	3626	1/1	0.92	0.11	53,53,53,53	0
56	MG	2A	3564	1/1	0.92	0.14	61,61,61,61	0
56	MG	2D	306	1/1	0.92	0.22	46,46,46,46	0
56	MG	2D	309	1/1	0.92	0.10	61,61,61,61	0
56	MG	2A	3147	1/1	0.92	0.17	60,60,60,60	0
56	MG	1a	1770	1/1	0.92	0.16	66,66,66,66	0
56	MG	2A	3152	1/1	0.92	0.28	53,53,53,53	0
56	MG	2A	3574	1/1	0.92	0.16	56,56,56,56	0
56	MG	1A	3427	1/1	0.92	0.15	61,61,61,61	0
56	MG	2A	3338	1/1	0.92	0.10	62,62,62,62	0
56	MG	2E	309	1/1	0.92	0.10	52,52,52,52	0
56	MG	2A	3155	1/1	0.92	0.12	62,62,62,62	0
56	MG	1a	1604	1/1	0.92	0.22	70,70,70,70	0
56	MG	2A	3341	1/1	0.92	0.13	67,67,67,67	0
56	MG	2A	3159	1/1	0.92	0.17	65,65,65,65	0
56	MG	1A	3250	1/1	0.92	0.24	58,58,58,58	0
56	MG	1A	3431	1/1	0.92	0.12	56,56,56,56	0
56	MG	1A	3105	1/1	0.92	0.31	49,49,49,49	0
56	MG	2T	201	1/1	0.92	0.10	61,61,61,61	0
56	MG	1A	3854	1/1	0.92	0.09	58,58,58,58	0
56	MG	2A	3169	1/1	0.92	0.12	51,51,51,51	0
56	MG	2A	3172	1/1	0.92	0.13	65,65,65,65	0
56	MG	1a	1614	1/1	0.92	0.12	65,65,65,65	0
56	MG	2a	1830	1/1	0.92	0.15	57,57,57,57	0
56	MG	1a	1615	1/1	0.92	0.19	67,67,67,67	0
56	MG	1a	1799	1/1	0.92	0.09	84,84,84,84	0
56	MG	1A	3662	1/1	0.92	0.14	52,52,52,52	0
56	MG	2A	3610	1/1	0.92	0.11	70,70,70,70	0
56	MG	1A	3356	1/1	0.92	0.19	66,66,66,66	0
56	MG	1A	3311	1/1	0.92	0.13	55,55,55,55	0
56	MG	2A	3360	1/1	0.92	0.27	64,64,64,64	0
56	MG	1A	3869	1/1	0.92	0.15	53,53,53,53	0
56	MG	1A	3121	1/1	0.92	0.10	38,38,38,38	0
56	MG	1A	3689	1/1	0.92	0.09	46,46,46,46	0
56	MG	25	105	1/1	0.92	0.10	68,68,68,68	0
56	MG	2A	3624	1/1	0.92	0.16	57,57,57,57	0
56	MG	2A	3628	1/1	0.92	0.18	47,47,47,47	0
56	MG	2A	3634	1/1	0.92	0.17	44,44,44,44	0
56	MG	28	104	1/1	0.92	0.17	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3186	1/1	0.92	0.21	63,63,63,63	0
56	MG	1A	3881	1/1	0.92	0.15	42,42,42,42	0
56	MG	1b	301	1/1	0.92	0.17	70,70,70,70	0
56	MG	1A	3886	1/1	0.92	0.12	40,40,40,40	0
56	MG	2a	1605	1/1	0.92	0.25	59,59,59,59	0
56	MG	2A	3370	1/1	0.92	0.17	52,52,52,52	0
56	MG	1A	3158	1/1	0.92	0.10	54,54,54,54	0
56	MG	1a	1633	1/1	0.92	0.19	58,58,58,58	0
56	MG	1A	3321	1/1	0.92	0.22	34,34,34,34	0
56	MG	1A	3536	1/1	0.92	0.23	40,40,40,40	0
56	MG	2A	3199	1/1	0.92	0.22	66,66,66,66	0
56	MG	1A	3901	1/1	0.92	0.06	35,35,35,35	0
56	MG	1p	101	1/1	0.92	0.08	68,68,68,68	0
56	MG	1A	3257	1/1	0.92	0.10	55,55,55,55	0
56	MG	1A	3163	1/1	0.92	0.15	52,52,52,52	0
56	MG	1A	3259	1/1	0.92	0.21	34,34,34,34	0
56	MG	1a	1643	1/1	0.92	0.15	70,70,70,70	0
56	MG	1A	3041	1/1	0.92	0.14	39,39,39,39	0
56	MG	2A	3388	1/1	0.92	0.14	64,64,64,64	0
56	MG	1A	3463	1/1	0.92	0.36	68,68,68,68	0
56	MG	1A	3331	1/1	0.92	0.09	53,53,53,53	0
56	MG	2A	3213	1/1	0.92	0.09	75,75,75,75	0
56	MG	2A	3393	1/1	0.92	0.12	66,66,66,66	0
56	MG	1A	3726	1/1	0.92	0.09	42,42,42,42	0
56	MG	1A	3130	1/1	0.92	0.10	69,69,69,69	0
56	MG	1x	103	1/1	0.92	0.16	52,52,52,52	0
56	MG	2A	3677	1/1	0.92	0.10	61,61,61,61	0
57	K	1A	3572	1/1	0.92	0.26	69,69,69,69	0
57	K	2A	3466	1/1	0.92	0.18	84,84,84,84	0
56	MG	1a	1700	1/1	0.93	0.28	68,68,68,68	0
56	MG	2a	1647	1/1	0.93	0.18	64,64,64,64	0
56	MG	1S	203	1/1	0.93	0.07	60,60,60,60	0
56	MG	1A	3831	1/1	0.93	0.08	40,40,40,40	0
56	MG	1A	3261	1/1	0.93	0.07	32,32,32,32	0
56	MG	1a	1706	1/1	0.93	0.13	64,64,64,64	0
56	MG	2A	3442	1/1	0.93	0.23	60,60,60,60	0
56	MG	2A	3270	1/1	0.93	0.11	58,58,58,58	0
56	MG	2A	3071	1/1	0.93	0.15	66,66,66,66	0
56	MG	1A	3835	1/1	0.93	0.24	62,62,62,62	0
56	MG	1A	3315	1/1	0.93	0.23	51,51,51,51	0
56	MG	1A	4025	1/1	0.93	0.14	49,49,49,49	0
56	MG	1A	3838	1/1	0.93	0.09	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	4028	1/1	0.93	0.09	55,55,55,55	0
56	MG	1A	3655	1/1	0.93	0.10	63,63,63,63	0
56	MG	1A	3457	1/1	0.93	0.08	63,63,63,63	0
56	MG	1A	3532	1/1	0.93	0.10	67,67,67,67	0
56	MG	1A	3316	1/1	0.93	0.21	57,57,57,57	0
56	MG	1A	3459	1/1	0.93	0.16	38,38,38,38	0
56	MG	1A	3846	1/1	0.93	0.19	56,56,56,56	0
56	MG	2A	3461	1/1	0.93	0.25	50,50,50,50	0
56	MG	1A	3353	1/1	0.93	0.11	56,56,56,56	0
56	MG	2a	1671	1/1	0.93	0.24	57,57,57,57	0
56	MG	11	102	1/1	0.93	0.12	63,63,63,63	0
56	MG	1A	3540	1/1	0.93	0.20	48,48,48,48	0
56	MG	1A	4048	1/1	0.93	0.06	34,34,34,34	0
56	MG	2a	1677	1/1	0.93	0.17	56,56,56,56	0
56	MG	1a	1731	1/1	0.93	0.10	62,62,62,62	0
56	MG	2A	3291	1/1	0.93	0.14	64,64,64,64	0
56	MG	2A	3758	1/1	0.93	0.12	63,63,63,63	0
56	MG	2A	3099	1/1	0.93	0.13	64,64,64,64	0
56	MG	1a	1732	1/1	0.93	0.08	51,51,51,51	0
56	MG	2A	3474	1/1	0.93	0.09	56,56,56,56	0
56	MG	1A	3406	1/1	0.93	0.07	54,54,54,54	0
56	MG	2a	1687	1/1	0.93	0.12	61,61,61,61	0
56	MG	13	102	1/1	0.93	0.12	45,45,45,45	0
56	MG	2A	3771	1/1	0.93	0.11	77,77,77,77	0
56	MG	1A	3408	1/1	0.93	0.10	42,42,42,42	0
56	MG	13	104	1/1	0.93	0.14	55,55,55,55	0
56	MG	2a	1692	1/1	0.93	0.20	69,69,69,69	0
56	MG	2A	3108	1/1	0.93	0.25	55,55,55,55	0
56	MG	2A	3480	1/1	0.93	0.18	67,67,67,67	0
56	MG	2A	3481	1/1	0.93	0.25	74,74,74,74	0
56	MG	1A	3090	1/1	0.93	0.17	47,47,47,47	0
56	MG	1A	4058	1/1	0.93	0.14	39,39,39,39	0
56	MG	2A	3301	1/1	0.93	0.16	67,67,67,67	0
56	MG	1A	3858	1/1	0.93	0.09	70,70,70,70	0
56	MG	1a	1754	1/1	0.93	0.07	63,63,63,63	0
56	MG	1A	3410	1/1	0.93	0.12	40,40,40,40	0
56	MG	18	104	1/1	0.93	0.08	52,52,52,52	0
56	MG	2A	3118	1/1	0.93	0.21	59,59,59,59	0
56	MG	1A	3861	1/1	0.93	0.10	25,25,25,25	0
56	MG	1A	3127	1/1	0.93	0.29	35,35,35,35	0
56	MG	1A	4069	1/1	0.93	0.07	41,41,41,41	0
56	MG	1a	1601	1/1	0.93	0.10	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3546	1/1	0.93	0.25	56,56,56,56	0
56	MG	1A	3868	1/1	0.93	0.09	49,49,49,49	0
56	MG	1A	3549	1/1	0.93	0.18	49,49,49,49	0
56	MG	1A	3050	1/1	0.93	0.14	29,29,29,29	0
56	MG	1A	3470	1/1	0.93	0.21	55,55,55,55	0
56	MG	1a	1772	1/1	0.93	0.12	73,73,73,73	0
56	MG	2A	3141	1/1	0.93	0.20	48,48,48,48	0
56	MG	2A	3322	1/1	0.93	0.11	65,65,65,65	0
56	MG	2a	1718	1/1	0.93	0.26	70,70,70,70	0
56	MG	1A	3191	1/1	0.93	0.17	39,39,39,39	0
56	MG	1a	1609	1/1	0.93	0.09	59,59,59,59	0
56	MG	2a	1721	1/1	0.93	0.15	67,67,67,67	0
56	MG	1A	3414	1/1	0.93	0.26	64,64,64,64	0
56	MG	2A	3515	1/1	0.93	0.08	29,29,29,29	0
56	MG	2A	3843	1/1	0.93	0.13	45,45,45,45	0
56	MG	2a	1726	1/1	0.93	0.41	71,71,71,71	0
56	MG	1A	3100	1/1	0.93	0.13	69,69,69,69	0
56	MG	2A	3329	1/1	0.93	0.17	56,56,56,56	0
56	MG	2A	3330	1/1	0.93	0.10	59,59,59,59	0
56	MG	1a	1782	1/1	0.93	0.11	46,46,46,46	0
56	MG	1A	3891	1/1	0.93	0.09	30,30,30,30	0
56	MG	2A	3525	1/1	0.93	0.09	48,48,48,48	0
56	MG	2A	3153	1/1	0.93	0.21	63,63,63,63	0
56	MG	2a	1735	1/1	0.93	0.22	58,58,58,58	0
56	MG	1A	3416	1/1	0.93	0.15	61,61,61,61	0
56	MG	1A	3899	1/1	0.93	0.11	23,23,23,23	0
56	MG	1a	1618	1/1	0.93	0.14	59,59,59,59	0
56	MG	2A	3540	1/1	0.93	0.11	47,47,47,47	0
56	MG	1a	1621	1/1	0.93	0.11	57,57,57,57	0
56	MG	2A	3543	1/1	0.93	0.08	45,45,45,45	0
56	MG	1a	1623	1/1	0.93	0.41	74,74,74,74	0
56	MG	2a	1744	1/1	0.93	0.26	52,52,52,52	0
56	MG	2a	1745	1/1	0.93	0.25	66,66,66,66	0
56	MG	2A	3868	1/1	0.93	0.10	64,64,64,64	0
56	MG	2A	3869	1/1	0.93	0.08	58,58,58,58	0
56	MG	2A	3551	1/1	0.93	0.11	57,57,57,57	0
56	MG	2A	3874	1/1	0.93	0.23	68,68,68,68	0
56	MG	1A	3289	1/1	0.93	0.09	52,52,52,52	0
56	MG	2A	3165	1/1	0.93	0.15	63,63,63,63	0
56	MG	1A	3478	1/1	0.93	0.11	53,53,53,53	0
56	MG	2a	1754	1/1	0.93	0.08	70,70,70,70	0
56	MG	1A	3017	1/1	0.93	0.17	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	3903	1/1	0.93	0.10	50,50,50,50	0
56	MG	1a	1629	1/1	0.93	0.23	53,53,53,53	0
56	MG	2a	1761	1/1	0.93	0.15	69,69,69,69	0
56	MG	2a	1763	1/1	0.93	0.15	78,78,78,78	0
56	MG	1A	3742	1/1	0.93	0.08	47,47,47,47	0
56	MG	1A	3482	1/1	0.93	0.14	45,45,45,45	0
56	MG	1A	3568	1/1	0.93	0.13	37,37,37,37	0
56	MG	2A	3351	1/1	0.93	0.20	63,63,63,63	0
56	MG	2a	1769	1/1	0.93	0.10	56,56,56,56	0
56	MG	2a	1770	1/1	0.93	0.23	66,66,66,66	0
56	MG	1B	202	1/1	0.93	0.16	47,47,47,47	0
56	MG	1A	3165	1/1	0.93	0.16	42,42,42,42	0
56	MG	1B	204	1/1	0.93	0.11	53,53,53,53	0
56	MG	1A	3209	1/1	0.93	0.18	59,59,59,59	0
56	MG	2A	3582	1/1	0.93	0.12	68,68,68,68	0
56	MG	2A	3583	1/1	0.93	0.18	57,57,57,57	0
56	MG	2A	3357	1/1	0.93	0.09	60,60,60,60	0
56	MG	1A	3489	1/1	0.93	0.16	58,58,58,58	0
56	MG	1A	3577	1/1	0.93	0.11	49,49,49,49	0
56	MG	2A	3184	1/1	0.93	0.21	59,59,59,59	0
56	MG	2D	307	1/1	0.93	0.20	58,58,58,58	0
56	MG	2a	1789	1/1	0.93	0.17	58,58,58,58	0
56	MG	1a	1641	1/1	0.93	0.12	55,55,55,55	0
56	MG	2A	3596	1/1	0.93	0.17	47,47,47,47	0
56	MG	2a	1794	1/1	0.93	0.16	60,60,60,60	0
56	MG	1A	3922	1/1	0.93	0.12	33,33,33,33	0
56	MG	2A	3188	1/1	0.93	0.26	65,65,65,65	0
56	MG	1A	3755	1/1	0.93	0.08	34,34,34,34	0
56	MG	2A	3601	1/1	0.93	0.18	76,76,76,76	0
56	MG	1a	1644	1/1	0.93	0.17	67,67,67,67	0
56	MG	1B	216	1/1	0.93	0.08	47,47,47,47	0
56	MG	2A	3604	1/1	0.93	0.17	57,57,57,57	0
56	MG	2F	303	1/1	0.93	0.11	56,56,56,56	0
56	MG	2a	1803	1/1	0.93	0.21	70,70,70,70	0
56	MG	2F	305	1/1	0.93	0.20	57,57,57,57	0
56	MG	1A	3136	1/1	0.93	0.17	29,29,29,29	0
56	MG	1A	3762	1/1	0.93	0.14	49,49,49,49	0
56	MG	2a	1808	1/1	0.93	0.17	61,61,61,61	0
56	MG	1A	3957	1/1	0.93	0.09	52,52,52,52	0
56	MG	2A	3198	1/1	0.93	0.13	61,61,61,61	0
56	MG	1A	3425	1/1	0.93	0.19	53,53,53,53	0
56	MG	1x	102	1/1	0.93	0.21	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3054	1/1	0.93	0.10	51,51,51,51	0
56	MG	2A	3376	1/1	0.93	0.14	71,71,71,71	0
56	MG	1B	228	1/1	0.93	0.07	40,40,40,40	0
56	MG	1A	3767	1/1	0.93	0.11	22,22,22,22	0
56	MG	2A	3627	1/1	0.93	0.16	63,63,63,63	0
56	MG	1A	3496	1/1	0.93	0.15	50,50,50,50	0
56	MG	1A	3962	1/1	0.93	0.07	52,52,52,52	0
56	MG	1B	232	1/1	0.93	0.10	58,58,58,58	0
56	MG	1A	3374	1/1	0.93	0.15	50,50,50,50	0
56	MG	1B	234	1/1	0.93	0.09	57,57,57,57	0
56	MG	2A	3387	1/1	0.93	0.10	58,58,58,58	0
56	MG	2A	3646	1/1	0.93	0.12	52,52,52,52	0
56	MG	2A	3212	1/1	0.93	0.12	62,62,62,62	0
56	MG	1A	3172	1/1	0.93	0.14	58,58,58,58	0
56	MG	2A	3649	1/1	0.93	0.14	50,50,50,50	0
56	MG	1D	305	1/1	0.93	0.08	45,45,45,45	0
56	MG	1A	3219	1/1	0.93	0.09	60,60,60,60	0
56	MG	1A	3968	1/1	0.93	0.11	51,51,51,51	0
56	MG	1A	3793	1/1	0.93	0.07	38,38,38,38	0
56	MG	28	102	1/1	0.93	0.22	55,55,55,55	0
56	MG	2A	3004	1/1	0.93	0.34	61,61,61,61	0
56	MG	1A	3971	1/1	0.93	0.12	38,38,38,38	0
56	MG	2A	3007	1/1	0.93	0.12	57,57,57,57	0
56	MG	1A	3974	1/1	0.93	0.11	57,57,57,57	0
56	MG	2a	1838	1/1	0.93	0.09	85,85,85,85	0
56	MG	2A	3661	1/1	0.93	0.11	63,63,63,63	0
56	MG	1A	3307	1/1	0.93	0.09	50,50,50,50	0
56	MG	2A	3013	1/1	0.93	0.15	55,55,55,55	0
56	MG	1A	3507	1/1	0.93	0.10	59,59,59,59	0
56	MG	2e	201	1/1	0.93	0.11	71,71,71,71	0
56	MG	2f	201	1/1	0.93	0.12	55,55,55,55	0
56	MG	1A	3802	1/1	0.93	0.07	21,21,21,21	0
56	MG	1a	1678	1/1	0.93	0.10	47,47,47,47	0
56	MG	1F	302	1/1	0.93	0.17	33,33,33,33	0
56	MG	1A	3984	1/1	0.93	0.08	65,65,65,65	0
56	MG	2A	3024	1/1	0.93	0.10	59,59,59,59	0
56	MG	2q	201	1/1	0.93	0.36	74,74,74,74	0
56	MG	1A	3379	1/1	0.93	0.08	45,45,45,45	0
56	MG	2q	203	1/1	0.93	0.11	74,74,74,74	0
56	MG	1A	3804	1/1	0.93	0.07	43,43,43,43	0
56	MG	2A	3674	1/1	0.93	0.24	44,44,44,44	0
56	MG	2A	3030	1/1	0.93	0.24	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3058	1/1	0.93	0.09	46,46,46,46	0
56	MG	2A	3411	1/1	0.93	0.22	69,69,69,69	0
56	MG	1A	3441	1/1	0.93	0.24	57,57,57,57	0
56	MG	1A	3382	1/1	0.93	0.29	61,61,61,61	0
56	MG	1A	3444	1/1	0.93	0.24	44,44,44,44	0
56	MG	2A	3686	1/1	0.93	0.16	66,66,66,66	0
56	MG	1A	3516	1/1	0.93	0.17	48,48,48,48	0
56	MG	1A	3817	1/1	0.93	0.08	65,65,65,65	0
56	MG	2A	3044	1/1	0.93	0.10	55,55,55,55	0
56	MG	1a	1689	1/1	0.93	0.24	62,62,62,62	0
56	MG	2A	3046	1/1	0.93	0.13	62,62,62,62	0
56	MG	1A	3182	1/1	0.93	0.25	52,52,52,52	0
56	MG	1a	1691	1/1	0.93	0.27	55,55,55,55	0
56	MG	2A	3424	1/1	0.93	0.34	64,64,64,64	0
56	MG	1a	1693	1/1	0.93	0.36	57,57,57,57	0
56	MG	2x	105	1/1	0.93	0.07	71,71,71,71	0
56	MG	1O	204	1/1	0.93	0.11	53,53,53,53	0
56	MG	2A	3055	1/1	0.93	0.17	61,61,61,61	0
56	MG	2y	102	1/1	0.93	0.20	84,84,84,84	0
56	MG	1A	3523	1/1	0.93	0.13	51,51,51,51	0
56	MG	2a	1639	1/1	0.93	0.21	53,53,53,53	0
56	MG	2a	1640	1/1	0.93	0.29	65,65,65,65	0
56	MG	1A	3452	1/1	0.93	0.10	52,52,52,52	0
56	MG	2A	3059	1/1	0.93	0.10	69,69,69,69	0
56	MG	1A	3827	1/1	0.93	0.09	36,36,36,36	0
56	MG	1A	3527	1/1	0.93	0.11	55,55,55,55	0
59	ZN	24	501	1/1	0.93	0.12	130,130,130,130	0
56	MG	2A	3709	1/1	0.94	0.11	57,57,57,57	0
56	MG	1A	3344	1/1	0.94	0.10	65,65,65,65	0
56	MG	1a	1674	1/1	0.94	0.30	77,77,77,77	0
56	MG	1a	1675	1/1	0.94	0.12	66,66,66,66	0
56	MG	2A	3034	1/1	0.94	0.09	48,48,48,48	0
56	MG	2a	1651	1/1	0.94	0.12	59,59,59,59	0
56	MG	2A	3435	1/1	0.94	0.35	69,69,69,69	0
56	MG	1A	3034	1/1	0.94	0.24	35,35,35,35	0
56	MG	1A	3764	1/1	0.94	0.09	20,20,20,20	0
56	MG	1A	3237	1/1	0.94	0.19	31,31,31,31	0
56	MG	2A	3725	1/1	0.94	0.16	57,57,57,57	0
56	MG	2A	3439	1/1	0.94	0.30	70,70,70,70	0
56	MG	2A	3251	1/1	0.94	0.11	72,72,72,72	0
56	MG	1A	3348	1/1	0.94	0.22	44,44,44,44	0
56	MG	2A	3730	1/1	0.94	0.11	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1E	304	1/1	0.94	0.14	46,46,46,46	0
56	MG	2a	1662	1/1	0.94	0.09	69,69,69,69	0
56	MG	1A	3772	1/1	0.94	0.11	29,29,29,29	0
56	MG	1A	3015	1/1	0.94	0.14	38,38,38,38	0
56	MG	2A	3048	1/1	0.94	0.17	51,51,51,51	0
56	MG	2A	3050	1/1	0.94	0.10	47,47,47,47	0
56	MG	2A	3737	1/1	0.94	0.13	48,48,48,48	0
56	MG	1A	3781	1/1	0.94	0.10	59,59,59,59	0
56	MG	1A	3967	1/1	0.94	0.08	53,53,53,53	0
56	MG	2A	3261	1/1	0.94	0.10	54,54,54,54	0
56	MG	1A	3241	1/1	0.94	0.08	35,35,35,35	0
56	MG	1A	3246	1/1	0.94	0.26	62,62,62,62	0
56	MG	2A	3744	1/1	0.94	0.15	53,53,53,53	0
56	MG	2A	3454	1/1	0.94	0.27	64,64,64,64	0
56	MG	1F	312	1/1	0.94	0.10	36,36,36,36	0
56	MG	1A	3788	1/1	0.94	0.09	26,26,26,26	0
56	MG	1A	3091	1/1	0.94	0.18	49,49,49,49	0
56	MG	2a	1681	1/1	0.94	0.31	65,65,65,65	0
56	MG	1F	315	1/1	0.94	0.19	55,55,55,55	0
56	MG	2A	3460	1/1	0.94	0.10	64,64,64,64	0
56	MG	1A	3134	1/1	0.94	0.11	39,39,39,39	0
56	MG	2A	3269	1/1	0.94	0.20	54,54,54,54	0
56	MG	1A	3306	1/1	0.94	0.29	54,54,54,54	0
56	MG	1A	3358	1/1	0.94	0.10	59,59,59,59	0
56	MG	1A	3503	1/1	0.94	0.13	29,29,29,29	0
56	MG	1A	3985	1/1	0.94	0.09	67,67,67,67	0
56	MG	1A	3986	1/1	0.94	0.12	69,69,69,69	0
56	MG	1A	3504	1/1	0.94	0.12	42,42,42,42	0
56	MG	2A	3768	1/1	0.94	0.11	68,68,68,68	0
56	MG	1A	3505	1/1	0.94	0.10	44,44,44,44	0
56	MG	2A	3473	1/1	0.94	0.10	44,44,44,44	0
56	MG	1A	3204	1/1	0.94	0.10	60,60,60,60	0
56	MG	2A	3774	1/1	0.94	0.18	75,75,75,75	0
56	MG	2A	3776	1/1	0.94	0.07	79,79,79,79	0
56	MG	1A	3994	1/1	0.94	0.08	26,26,26,26	0
56	MG	1A	3309	1/1	0.94	0.09	47,47,47,47	0
56	MG	1S	201	1/1	0.94	0.25	46,46,46,46	0
56	MG	1A	3996	1/1	0.94	0.08	45,45,45,45	0
56	MG	2A	3790	1/1	0.94	0.11	65,65,65,65	0
56	MG	1A	3205	1/1	0.94	0.10	22,22,22,22	0
56	MG	2A	3284	1/1	0.94	0.19	58,58,58,58	0
56	MG	1A	3998	1/1	0.94	0.07	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	3087	1/1	0.94	0.09	56,56,56,56	0
56	MG	2A	3088	1/1	0.94	0.17	62,62,62,62	0
56	MG	1A	3808	1/1	0.94	0.05	21,21,21,21	0
56	MG	1A	3363	1/1	0.94	0.10	59,59,59,59	0
56	MG	1A	3253	1/1	0.94	0.17	56,56,56,56	0
56	MG	2A	3800	1/1	0.94	0.10	63,63,63,63	0
56	MG	2A	3488	1/1	0.94	0.08	65,65,65,65	0
56	MG	1A	4003	1/1	0.94	0.09	17,17,17,17	0
56	MG	1a	1717	1/1	0.94	0.29	61,61,61,61	0
56	MG	1A	3815	1/1	0.94	0.06	37,37,37,37	0
56	MG	2A	3806	1/1	0.94	0.11	62,62,62,62	0
56	MG	1A	3816	1/1	0.94	0.14	46,46,46,46	0
56	MG	2A	3810	1/1	0.94	0.07	82,82,82,82	0
56	MG	2A	3811	1/1	0.94	0.10	59,59,59,59	0
56	MG	1A	3615	1/1	0.94	0.09	53,53,53,53	0
56	MG	2a	1723	1/1	0.94	0.11	81,81,81,81	0
56	MG	1W	201	1/1	0.94	0.27	60,60,60,60	0
56	MG	2A	3817	1/1	0.94	0.12	52,52,52,52	0
56	MG	1W	206	1/1	0.94	0.13	29,29,29,29	0
56	MG	1A	3616	1/1	0.94	0.07	25,25,25,25	0
56	MG	1X	106	1/1	0.94	0.09	62,62,62,62	0
56	MG	1A	3819	1/1	0.94	0.12	49,49,49,49	0
56	MG	1A	4014	1/1	0.94	0.08	33,33,33,33	0
56	MG	1Z	301	1/1	0.94	0.13	65,65,65,65	0
56	MG	1A	3820	1/1	0.94	0.08	33,33,33,33	0
56	MG	1A	4017	1/1	0.94	0.09	45,45,45,45	0
56	MG	2A	3836	1/1	0.94	0.08	60,60,60,60	0
56	MG	1a	1741	1/1	0.94	0.12	55,55,55,55	0
56	MG	10	105	1/1	0.94	0.13	68,68,68,68	0
56	MG	2A	3510	1/1	0.94	0.13	43,43,43,43	0
56	MG	1A	3617	1/1	0.94	0.13	44,44,44,44	0
56	MG	2A	3114	1/1	0.94	0.23	68,68,68,68	0
56	MG	10	108	1/1	0.94	0.07	42,42,42,42	0
56	MG	1a	1749	1/1	0.94	0.09	64,64,64,64	0
56	MG	2A	3856	1/1	0.94	0.09	62,62,62,62	0
56	MG	2A	3117	1/1	0.94	0.16	53,53,53,53	0
56	MG	1A	3512	1/1	0.94	0.10	46,46,46,46	0
56	MG	1A	3826	1/1	0.94	0.07	35,35,35,35	0
56	MG	1A	3313	1/1	0.94	0.27	56,56,56,56	0
56	MG	2A	3123	1/1	0.94	0.26	59,59,59,59	0
56	MG	2A	3528	1/1	0.94	0.09	52,52,52,52	0
56	MG	2A	3529	1/1	0.94	0.08	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	3622	1/1	0.94	0.05	30,30,30,30	0
56	MG	12	102	1/1	0.94	0.14	49,49,49,49	0
56	MG	1A	3830	1/1	0.94	0.07	34,34,34,34	0
56	MG	1A	3623	1/1	0.94	0.09	10,10,10,10	0
56	MG	2a	1759	1/1	0.94	0.08	75,75,75,75	0
56	MG	2A	3538	1/1	0.94	0.25	62,62,62,62	0
56	MG	1A	4030	1/1	0.94	0.06	48,48,48,48	0
56	MG	1A	3106	1/1	0.94	0.09	28,28,28,28	0
56	MG	2A	3134	1/1	0.94	0.12	48,48,48,48	0
56	MG	2A	3136	1/1	0.94	0.08	60,60,60,60	0
56	MG	1A	3630	1/1	0.94	0.09	40,40,40,40	0
56	MG	15	102	1/1	0.94	0.14	36,36,36,36	0
56	MG	2B	204	1/1	0.94	0.15	78,78,78,78	0
56	MG	15	104	1/1	0.94	0.12	27,27,27,27	0
56	MG	15	105	1/1	0.94	0.15	43,43,43,43	0
56	MG	2A	3144	1/1	0.94	0.12	43,43,43,43	0
56	MG	2B	209	1/1	0.94	0.19	65,65,65,65	0
56	MG	2a	1775	1/1	0.94	0.08	89,89,89,89	0
56	MG	1A	3440	1/1	0.94	0.18	53,53,53,53	0
56	MG	1A	3208	1/1	0.94	0.11	29,29,29,29	0
56	MG	1A	3521	1/1	0.94	0.33	43,43,43,43	0
56	MG	1A	3652	1/1	0.94	0.07	27,27,27,27	0
56	MG	2a	1782	1/1	0.94	0.06	65,65,65,65	0
56	MG	2B	214	1/1	0.94	0.17	70,70,70,70	0
56	MG	1A	3167	1/1	0.94	0.06	32,32,32,32	0
56	MG	1A	3525	1/1	0.94	0.20	66,66,66,66	0
56	MG	1A	3661	1/1	0.94	0.11	50,50,50,50	0
56	MG	1A	3373	1/1	0.94	0.23	41,41,41,41	0
56	MG	1A	3446	1/1	0.94	0.23	49,49,49,49	0
56	MG	2a	1791	1/1	0.94	0.14	75,75,75,75	0
56	MG	2A	3158	1/1	0.94	0.19	45,45,45,45	0
56	MG	2D	303	1/1	0.94	0.18	51,51,51,51	0
56	MG	1A	3671	1/1	0.94	0.10	28,28,28,28	0
56	MG	1a	1794	1/1	0.94	0.08	75,75,75,75	0
56	MG	1A	3318	1/1	0.94	0.15	54,54,54,54	0
56	MG	2A	3162	1/1	0.94	0.12	62,62,62,62	0
56	MG	2A	3164	1/1	0.94	0.23	62,62,62,62	0
56	MG	1A	3448	1/1	0.94	0.15	34,34,34,34	0
56	MG	1A	3168	1/1	0.94	0.08	38,38,38,38	0
56	MG	2A	3167	1/1	0.94	0.27	68,68,68,68	0
56	MG	1A	3857	1/1	0.94	0.12	45,45,45,45	0
56	MG	2a	1804	1/1	0.94	0.10	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3109	1/1	0.94	0.23	29,29,29,29	0
56	MG	1A	3700	1/1	0.94	0.15	51,51,51,51	0
56	MG	2F	301	1/1	0.94	0.11	72,72,72,72	0
56	MG	1A	3324	1/1	0.94	0.09	50,50,50,50	0
56	MG	1A	3864	1/1	0.94	0.24	35,35,35,35	0
56	MG	1A	3705	1/1	0.94	0.13	59,59,59,59	0
56	MG	1A	3709	1/1	0.94	0.08	46,46,46,46	0
56	MG	1A	4081	1/1	0.94	0.11	48,48,48,48	0
56	MG	2a	1813	1/1	0.94	0.15	64,64,64,64	0
56	MG	1A	3114	1/1	0.94	0.09	40,40,40,40	0
56	MG	1k	201	1/1	0.94	0.22	52,52,52,52	0
56	MG	2Q	201	1/1	0.94	0.08	58,58,58,58	0
56	MG	2A	3181	1/1	0.94	0.19	69,69,69,69	0
56	MG	1A	3380	1/1	0.94	0.10	30,30,30,30	0
56	MG	2R	201	1/1	0.94	0.10	51,51,51,51	0
56	MG	1A	3060	1/1	0.94	0.08	36,36,36,36	0
56	MG	1A	3223	1/1	0.94	0.07	51,51,51,51	0
56	MG	1A	3874	1/1	0.94	0.10	37,37,37,37	0
56	MG	1A	3876	1/1	0.94	0.07	41,41,41,41	0
56	MG	1A	3880	1/1	0.94	0.17	33,33,33,33	0
56	MG	1A	3462	1/1	0.94	0.17	47,47,47,47	0
56	MG	1A	3885	1/1	0.94	0.07	37,37,37,37	0
56	MG	1A	3719	1/1	0.94	0.20	59,59,59,59	0
56	MG	1A	3888	1/1	0.94	0.09	20,20,20,20	0
56	MG	1A	3225	1/1	0.94	0.12	43,43,43,43	0
56	MG	1A	3387	1/1	0.94	0.09	48,48,48,48	0
56	MG	2A	3384	1/1	0.94	0.35	65,65,65,65	0
56	MG	1A	3266	1/1	0.94	0.10	50,50,50,50	0
56	MG	1A	3392	1/1	0.94	0.25	28,28,28,28	0
56	MG	1A	3547	1/1	0.94	0.32	48,48,48,48	0
56	MG	25	104	1/1	0.94	0.09	59,59,59,59	0
56	MG	2A	3389	1/1	0.94	0.11	77,77,77,77	0
56	MG	1B	207	1/1	0.94	0.21	46,46,46,46	0
56	MG	1x	105	1/1	0.94	0.18	56,56,56,56	0
56	MG	2A	3652	1/1	0.94	0.14	64,64,64,64	0
56	MG	2A	3653	1/1	0.94	0.22	50,50,50,50	0
56	MG	1A	3267	1/1	0.94	0.11	54,54,54,54	0
56	MG	29	101	1/1	0.94	0.26	69,69,69,69	0
56	MG	1A	3143	1/1	0.94	0.06	43,43,43,43	0
56	MG	1B	210	1/1	0.94	0.11	39,39,39,39	0
56	MG	1B	211	1/1	0.94	0.12	53,53,53,53	0
56	MG	1a	1647	1/1	0.94	0.12	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	3659	1/1	0.94	0.11	74,74,74,74	0
56	MG	2A	3209	1/1	0.94	0.11	47,47,47,47	0
56	MG	1A	3733	1/1	0.94	0.11	52,52,52,52	0
56	MG	2A	3211	1/1	0.94	0.08	55,55,55,55	0
56	MG	1A	3096	1/1	0.94	0.16	43,43,43,43	0
56	MG	1A	3403	1/1	0.94	0.21	33,33,33,33	0
56	MG	1A	3404	1/1	0.94	0.20	53,53,53,53	0
56	MG	1A	3149	1/1	0.94	0.18	31,31,31,31	0
56	MG	2A	3217	1/1	0.94	0.20	57,57,57,57	0
56	MG	1B	221	1/1	0.94	0.05	49,49,49,49	0
56	MG	1A	3283	1/1	0.94	0.17	34,34,34,34	0
56	MG	1A	3152	1/1	0.94	0.10	44,44,44,44	0
56	MG	2A	3221	1/1	0.94	0.31	62,62,62,62	0
56	MG	1A	3477	1/1	0.94	0.08	52,52,52,52	0
56	MG	1A	3562	1/1	0.94	0.11	60,60,60,60	0
56	MG	1A	3290	1/1	0.94	0.06	38,38,38,38	0
56	MG	2A	3011	1/1	0.94	0.17	62,62,62,62	0
56	MG	1A	3927	1/1	0.94	0.06	44,44,44,44	0
56	MG	2A	3680	1/1	0.94	0.15	66,66,66,66	0
56	MG	2A	3014	1/1	0.94	0.12	52,52,52,52	0
56	MG	1A	3479	1/1	0.94	0.10	43,43,43,43	0
56	MG	1A	3934	1/1	0.94	0.07	38,38,38,38	0
56	MG	2a	1630	1/1	0.94	0.22	72,72,72,72	0
56	MG	2A	3231	1/1	0.94	0.15	44,44,44,44	0
56	MG	2A	3688	1/1	0.94	0.09	55,55,55,55	0
56	MG	2A	3232	1/1	0.94	0.20	55,55,55,55	0
56	MG	1A	3291	1/1	0.94	0.21	57,57,57,57	0
56	MG	1a	1667	1/1	0.94	0.17	66,66,66,66	0
56	MG	2A	3022	1/1	0.94	0.12	52,52,52,52	0
56	MG	2A	3423	1/1	0.94	0.29	54,54,54,54	0
56	MG	1A	3948	1/1	0.94	0.09	61,61,61,61	0
56	MG	1A	3952	1/1	0.94	0.09	52,52,52,52	0
56	MG	2A	3025	1/1	0.94	0.18	67,67,67,67	0
56	MG	1A	3760	1/1	0.94	0.07	38,38,38,38	0
56	MG	1D	302	1/1	0.94	0.20	45,45,45,45	0
56	MG	2A	3430	1/1	0.94	0.21	57,57,57,57	0
56	MG	1A	3696	1/1	0.95	0.07	22,22,22,22	0
56	MG	1a	1673	1/1	0.95	0.19	61,61,61,61	0
56	MG	2A	3711	1/1	0.95	0.13	36,36,36,36	0
56	MG	1A	3323	1/1	0.95	0.09	41,41,41,41	0
56	MG	1A	3833	1/1	0.95	0.08	37,37,37,37	0
56	MG	1a	1676	1/1	0.95	0.16	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	1A	3834	1/1	0.95	0.18	40,40,40,40	0
56	MG	1A	3553	1/1	0.95	0.08	53,53,53,53	0
56	MG	1A	3490	1/1	0.95	0.21	43,43,43,43	0
56	MG	2A	3239	1/1	0.95	0.13	53,53,53,53	0
56	MG	1A	3707	1/1	0.95	0.06	25,25,25,25	0
56	MG	2A	3723	1/1	0.95	0.18	58,58,58,58	0
56	MG	1A	3491	1/1	0.95	0.10	49,49,49,49	0
56	MG	1N	201	1/1	0.95	0.14	44,44,44,44	0
56	MG	1A	3235	1/1	0.95	0.42	52,52,52,52	0
56	MG	1A	4007	1/1	0.95	0.07	64,64,64,64	0
56	MG	2A	3040	1/1	0.95	0.12	54,54,54,54	0
56	MG	1A	3271	1/1	0.95	0.27	54,54,54,54	0
56	MG	1A	3006	1/1	0.95	0.09	54,54,54,54	0
56	MG	1A	3025	1/1	0.95	0.15	32,32,32,32	0
56	MG	1A	3565	1/1	0.95	0.10	36,36,36,36	0
56	MG	1P	203	1/1	0.95	0.14	28,28,28,28	0
56	MG	2A	3047	1/1	0.95	0.21	64,64,64,64	0
56	MG	1P	205	1/1	0.95	0.19	56,56,56,56	0
56	MG	2A	3450	1/1	0.95	0.23	59,59,59,59	0
56	MG	1P	206	1/1	0.95	0.14	44,44,44,44	0
56	MG	2A	3741	1/1	0.95	0.07	71,71,71,71	0
56	MG	1a	1692	1/1	0.95	0.36	61,61,61,61	0
56	MG	1Q	203	1/1	0.95	0.15	63,63,63,63	0
56	MG	1Q	204	1/1	0.95	0.07	49,49,49,49	0
56	MG	1R	203	1/1	0.95	0.23	38,38,38,38	0
56	MG	1a	1696	1/1	0.95	0.34	54,54,54,54	0
56	MG	1A	3497	1/1	0.95	0.09	49,49,49,49	0
56	MG	1A	3328	1/1	0.95	0.26	56,56,56,56	0
56	MG	2A	3750	1/1	0.95	0.15	66,66,66,66	0
56	MG	2a	1674	1/1	0.95	0.29	74,74,74,74	0
56	MG	2A	3459	1/1	0.95	0.14	50,50,50,50	0
56	MG	1A	3722	1/1	0.95	0.11	38,38,38,38	0
56	MG	2A	3060	1/1	0.95	0.11	47,47,47,47	0
56	MG	1A	4018	1/1	0.95	0.07	39,39,39,39	0
56	MG	2A	3062	1/1	0.95	0.10	63,63,63,63	0
56	MG	2A	3757	1/1	0.95	0.23	72,72,72,72	0
56	MG	1A	3278	1/1	0.95	0.06	43,43,43,43	0
56	MG	2A	3759	1/1	0.95	0.07	56,56,56,56	0
56	MG	1A	3378	1/1	0.95	0.20	46,46,46,46	0
56	MG	1a	1703	1/1	0.95	0.26	60,60,60,60	0
56	MG	2A	3762	1/1	0.95	0.12	58,58,58,58	0
56	MG	1A	3501	1/1	0.95	0.12	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3067	1/1	0.95	0.32	63,63,63,63	0
56	MG	1A	3571	1/1	0.95	0.24	53,53,53,53	0
56	MG	2A	3472	1/1	0.95	0.16	53,53,53,53	0
56	MG	1A	3330	1/1	0.95	0.08	39,39,39,39	0
56	MG	1U	207	1/1	0.95	0.14	36,36,36,36	0
56	MG	1A	3199	1/1	0.95	0.24	37,37,37,37	0
56	MG	1a	1710	1/1	0.95	0.19	55,55,55,55	0
56	MG	2A	3074	1/1	0.95	0.07	58,58,58,58	0
56	MG	2A	3279	1/1	0.95	0.13	61,61,61,61	0
56	MG	2A	3782	1/1	0.95	0.08	64,64,64,64	0
56	MG	1A	3863	1/1	0.95	0.07	53,53,53,53	0
56	MG	2A	3078	1/1	0.95	0.07	53,53,53,53	0
56	MG	1A	3578	1/1	0.95	0.27	43,43,43,43	0
56	MG	2A	3482	1/1	0.95	0.10	53,53,53,53	0
56	MG	1a	1713	1/1	0.95	0.10	39,39,39,39	0
56	MG	1A	4032	1/1	0.95	0.07	45,45,45,45	0
56	MG	1A	3738	1/1	0.95	0.10	59,59,59,59	0
56	MG	1A	3011	1/1	0.95	0.07	42,42,42,42	0
56	MG	1A	3582	1/1	0.95	0.09	34,34,34,34	0
56	MG	1A	3244	1/1	0.95	0.09	48,48,48,48	0
56	MG	1A	4041	1/1	0.95	0.07	33,33,33,33	0
56	MG	1a	1720	1/1	0.95	0.20	62,62,62,62	0
56	MG	1A	3743	1/1	0.95	0.07	57,57,57,57	0
56	MG	1A	3245	1/1	0.95	0.06	43,43,43,43	0
56	MG	1a	1724	1/1	0.95	0.12	70,70,70,70	0
56	MG	1Z	303	1/1	0.95	0.11	58,58,58,58	0
56	MG	1a	1726	1/1	0.95	0.12	55,55,55,55	0
56	MG	1a	1727	1/1	0.95	0.14	61,61,61,61	0
56	MG	10	101	1/1	0.95	0.22	44,44,44,44	0
56	MG	2A	3100	1/1	0.95	0.08	54,54,54,54	0
56	MG	1A	3873	1/1	0.95	0.07	38,38,38,38	0
56	MG	1A	3451	1/1	0.95	0.14	33,33,33,33	0
56	MG	2A	3302	1/1	0.95	0.12	58,58,58,58	0
56	MG	1A	4051	1/1	0.95	0.07	53,53,53,53	0
56	MG	2A	3820	1/1	0.95	0.11	57,57,57,57	0
56	MG	1a	1736	1/1	0.95	0.09	56,56,56,56	0
56	MG	1A	3292	1/1	0.95	0.07	48,48,48,48	0
56	MG	2A	3107	1/1	0.95	0.11	54,54,54,54	0
56	MG	1A	3747	1/1	0.95	0.07	22,22,22,22	0
56	MG	1A	3594	1/1	0.95	0.19	44,44,44,44	0
56	MG	11	104	1/1	0.95	0.06	36,36,36,36	0
56	MG	2A	3311	1/1	0.95	0.22	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1732	1/1	0.95	0.18	72,72,72,72	0
56	MG	1a	1742	1/1	0.95	0.05	46,46,46,46	0
56	MG	2A	3839	1/1	0.95	0.08	64,64,64,64	0
56	MG	2A	3840	1/1	0.95	0.06	28,28,28,28	0
56	MG	1A	3882	1/1	0.95	0.16	30,30,30,30	0
56	MG	1A	3453	1/1	0.95	0.10	32,32,32,32	0
56	MG	1a	1746	1/1	0.95	0.11	68,68,68,68	0
56	MG	12	101	1/1	0.95	0.09	58,58,58,58	0
56	MG	2A	3526	1/1	0.95	0.07	60,60,60,60	0
56	MG	2A	3850	1/1	0.95	0.07	68,68,68,68	0
56	MG	1A	3511	1/1	0.95	0.08	45,45,45,45	0
56	MG	2A	3852	1/1	0.95	0.18	59,59,59,59	0
56	MG	2A	3853	1/1	0.95	0.07	41,41,41,41	0
56	MG	1A	4062	1/1	0.95	0.04	19,19,19,19	0
56	MG	2A	3855	1/1	0.95	0.08	61,61,61,61	0
56	MG	2A	3531	1/1	0.95	0.08	45,45,45,45	0
56	MG	2A	3532	1/1	0.95	0.13	67,67,67,67	0
56	MG	1a	1753	1/1	0.95	0.18	66,66,66,66	0
56	MG	2A	3121	1/1	0.95	0.10	50,50,50,50	0
56	MG	2A	3321	1/1	0.95	0.20	64,64,64,64	0
56	MG	1A	3887	1/1	0.95	0.11	29,29,29,29	0
56	MG	1A	3002	1/1	0.95	0.08	47,47,47,47	0
56	MG	2A	3864	1/1	0.95	0.17	45,45,45,45	0
56	MG	1A	3756	1/1	0.95	0.10	45,45,45,45	0
56	MG	1A	3757	1/1	0.95	0.06	43,43,43,43	0
56	MG	1A	3894	1/1	0.95	0.09	44,44,44,44	0
56	MG	1A	3599	1/1	0.95	0.15	39,39,39,39	0
56	MG	1A	3337	1/1	0.95	0.24	58,58,58,58	0
56	MG	2A	3871	1/1	0.95	0.12	39,39,39,39	0
56	MG	1a	1763	1/1	0.95	0.11	68,68,68,68	0
56	MG	1A	3047	1/1	0.95	0.06	35,35,35,35	0
56	MG	2A	3135	1/1	0.95	0.19	51,51,51,51	0
56	MG	16	101	1/1	0.95	0.09	58,58,58,58	0
56	MG	1A	4078	1/1	0.95	0.08	20,20,20,20	0
56	MG	1A	4080	1/1	0.95	0.08	33,33,33,33	0
56	MG	2A	3337	1/1	0.95	0.09	63,63,63,63	0
56	MG	1A	3396	1/1	0.95	0.28	41,41,41,41	0
56	MG	1A	3171	1/1	0.95	0.15	35,35,35,35	0
56	MG	2B	206	1/1	0.95	0.17	70,70,70,70	0
56	MG	2A	3143	1/1	0.95	0.23	52,52,52,52	0
56	MG	1A	4083	1/1	0.95	0.17	44,44,44,44	0
56	MG	2a	1781	1/1	0.95	0.07	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	1a	1774	1/1	0.95	0.07	67,67,67,67	0
56	MG	1A	3604	1/1	0.95	0.13	56,56,56,56	0
56	MG	1A	3520	1/1	0.95	0.12	32,32,32,32	0
56	MG	1a	1778	1/1	0.95	0.09	63,63,63,63	0
56	MG	2A	3151	1/1	0.95	0.11	52,52,52,52	0
56	MG	1a	1780	1/1	0.95	0.09	64,64,64,64	0
56	MG	2A	3348	1/1	0.95	0.10	69,69,69,69	0
56	MG	1A	3769	1/1	0.95	0.05	21,21,21,21	0
56	MG	2A	3590	1/1	0.95	0.12	78,78,78,78	0
56	MG	2A	3350	1/1	0.95	0.14	60,60,60,60	0
56	MG	2A	3592	1/1	0.95	0.16	56,56,56,56	0
56	MG	1A	3297	1/1	0.95	0.13	65,65,65,65	0
56	MG	2A	3352	1/1	0.95	0.07	69,69,69,69	0
56	MG	1A	3461	1/1	0.95	0.09	54,54,54,54	0
56	MG	1A	3911	1/1	0.95	0.10	60,60,60,60	0
56	MG	1A	3777	1/1	0.95	0.08	63,63,63,63	0
56	MG	2D	308	1/1	0.95	0.09	54,54,54,54	0
56	MG	1a	1787	1/1	0.95	0.09	52,52,52,52	0
56	MG	1A	3779	1/1	0.95	0.06	30,30,30,30	0
56	MG	1A	3915	1/1	0.95	0.08	42,42,42,42	0
56	MG	1a	1797	1/1	0.95	0.08	72,72,72,72	0
56	MG	2E	304	1/1	0.95	0.19	47,47,47,47	0
56	MG	1A	3298	1/1	0.95	0.14	52,52,52,52	0
56	MG	1A	3148	1/1	0.95	0.14	41,41,41,41	0
56	MG	2A	3362	1/1	0.95	0.21	66,66,66,66	0
56	MG	1A	3405	1/1	0.95	0.07	43,43,43,43	0
56	MG	1a	1807	1/1	0.95	0.14	66,66,66,66	0
56	MG	2A	3614	1/1	0.95	0.07	51,51,51,51	0
56	MG	1a	1809	1/1	0.95	0.06	63,63,63,63	0
56	MG	2A	3618	1/1	0.95	0.09	43,43,43,43	0
56	MG	2A	3366	1/1	0.95	0.13	70,70,70,70	0
56	MG	1A	3925	1/1	0.95	0.09	58,58,58,58	0
56	MG	2A	3170	1/1	0.95	0.09	59,59,59,59	0
56	MG	2A	3171	1/1	0.95	0.13	67,67,67,67	0
56	MG	2A	3625	1/1	0.95	0.10	52,52,52,52	0
56	MG	1A	3528	1/1	0.95	0.09	63,63,63,63	0
56	MG	1a	1620	1/1	0.95	0.06	69,69,69,69	0
56	MG	2Q	204	1/1	0.95	0.12	65,65,65,65	0
56	MG	2A	3629	1/1	0.95	0.12	67,67,67,67	0
56	MG	1A	3928	1/1	0.95	0.07	57,57,57,57	0
56	MG	1B	206	1/1	0.95	0.20	50,50,50,50	0
56	MG	2T	203	1/1	0.95	0.14	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	1A	3619	1/1	0.95	0.06	37,37,37,37	0
56	MG	1e	201	1/1	0.95	0.27	56,56,56,56	0
56	MG	1A	3931	1/1	0.95	0.07	50,50,50,50	0
56	MG	2W	202	1/1	0.95	0.22	50,50,50,50	0
56	MG	1A	3251	1/1	0.95	0.17	38,38,38,38	0
56	MG	1A	3092	1/1	0.95	0.11	57,57,57,57	0
56	MG	1a	1628	1/1	0.95	0.16	57,57,57,57	0
56	MG	1A	3947	1/1	0.95	0.10	31,31,31,31	0
56	MG	1A	3796	1/1	0.95	0.14	63,63,63,63	0
56	MG	1A	3949	1/1	0.95	0.07	57,57,57,57	0
56	MG	1A	3950	1/1	0.95	0.08	55,55,55,55	0
56	MG	2A	3385	1/1	0.95	0.08	59,59,59,59	0
56	MG	1A	3180	1/1	0.95	0.10	38,38,38,38	0
56	MG	1B	217	1/1	0.95	0.11	48,48,48,48	0
56	MG	1A	3953	1/1	0.95	0.08	82,82,82,82	0
56	MG	1A	3181	1/1	0.95	0.07	36,36,36,36	0
56	MG	1A	3627	1/1	0.95	0.07	27,27,27,27	0
56	MG	1A	3533	1/1	0.95	0.15	52,52,52,52	0
56	MG	1A	3218	1/1	0.95	0.19	38,38,38,38	0
56	MG	1A	3049	1/1	0.95	0.04	20,20,20,20	0
56	MG	1B	227	1/1	0.95	0.07	40,40,40,40	0
56	MG	1A	3220	1/1	0.95	0.10	32,32,32,32	0
56	MG	2l	203	1/1	0.95	0.07	69,69,69,69	0
56	MG	1A	3222	1/1	0.95	0.09	47,47,47,47	0
56	MG	1A	3809	1/1	0.95	0.06	21,21,21,21	0
56	MG	1A	3812	1/1	0.95	0.29	30,30,30,30	0
56	MG	1A	3654	1/1	0.95	0.05	24,24,24,24	0
56	MG	1A	3312	1/1	0.95	0.12	54,54,54,54	0
56	MG	1A	3656	1/1	0.95	0.11	53,53,53,53	0
56	MG	1A	3658	1/1	0.95	0.12	46,46,46,46	0
56	MG	1a	1652	1/1	0.95	0.08	60,60,60,60	0
56	MG	1B	237	1/1	0.95	0.05	36,36,36,36	0
56	MG	1x	113	1/1	0.95	0.10	70,70,70,70	0
56	MG	1a	1656	1/1	0.95	0.07	54,54,54,54	0
56	MG	1A	3359	1/1	0.95	0.06	56,56,56,56	0
56	MG	1A	3029	1/1	0.95	0.12	35,35,35,35	0
56	MG	1D	308	1/1	0.95	0.09	47,47,47,47	0
56	MG	2A	3682	1/1	0.95	0.09	62,62,62,62	0
56	MG	2A	3216	1/1	0.95	0.10	55,55,55,55	0
56	MG	1A	3977	1/1	0.95	0.08	60,60,60,60	0
56	MG	1A	3184	1/1	0.95	0.07	54,54,54,54	0
56	MG	1A	3980	1/1	0.95	0.07	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	3006	1/1	0.95	0.21	55,55,55,55	0
56	MG	2A	3689	1/1	0.95	0.13	77,77,77,77	0
56	MG	2a	1623	1/1	0.95	0.09	66,66,66,66	0
56	MG	1A	3262	1/1	0.95	0.17	43,43,43,43	0
56	MG	1A	3022	1/1	0.95	0.14	45,45,45,45	0
56	MG	1A	3679	1/1	0.95	0.04	19,19,19,19	0
56	MG	2a	1627	1/1	0.95	0.07	67,67,67,67	0
56	MG	1A	3825	1/1	0.95	0.06	23,23,23,23	0
56	MG	1A	3187	1/1	0.95	0.10	57,57,57,57	0
56	MG	1A	3486	1/1	0.95	0.09	45,45,45,45	0
56	MG	1A	3083	1/1	0.95	0.20	42,42,42,42	0
56	MG	2A	3700	1/1	0.95	0.08	70,70,70,70	0
56	MG	1A	3104	1/1	0.95	0.16	36,36,36,36	0
56	MG	2A	3229	1/1	0.95	0.12	54,54,54,54	0
56	MG	1F	308	1/1	0.95	0.14	25,25,25,25	0
56	MG	2A	3708	1/1	0.96	0.09	67,67,67,67	0
56	MG	1A	3729	1/1	0.96	0.09	52,52,52,52	0
56	MG	2A	3043	1/1	0.96	0.13	70,70,70,70	0
56	MG	2A	3712	1/1	0.96	0.07	39,39,39,39	0
56	MG	2A	3244	1/1	0.96	0.11	58,58,58,58	0
56	MG	1A	3128	1/1	0.96	0.15	53,53,53,53	0
56	MG	1P	201	1/1	0.96	0.33	32,32,32,32	0
56	MG	1A	3860	1/1	0.96	0.09	24,24,24,24	0
56	MG	1A	3129	1/1	0.96	0.08	37,37,37,37	0
56	MG	1A	3005	1/1	0.96	0.07	48,48,48,48	0
56	MG	2A	3446	1/1	0.96	0.13	51,51,51,51	0
56	MG	2A	3049	1/1	0.96	0.05	31,31,31,31	0
56	MG	1Q	202	1/1	0.96	0.05	42,42,42,42	0
56	MG	1A	3010	1/1	0.96	0.05	35,35,35,35	0
56	MG	1A	3586	1/1	0.96	0.24	34,34,34,34	0
56	MG	1Q	205	1/1	0.96	0.11	47,47,47,47	0
56	MG	1Q	206	1/1	0.96	0.13	43,43,43,43	0
56	MG	1A	3133	1/1	0.96	0.08	45,45,45,45	0
56	MG	1R	204	1/1	0.96	0.08	30,30,30,30	0
56	MG	2A	3057	1/1	0.96	0.10	71,71,71,71	0
56	MG	1A	3018	1/1	0.96	0.06	39,39,39,39	0
56	MG	1A	4027	1/1	0.96	0.06	56,56,56,56	0
56	MG	1A	3592	1/1	0.96	0.11	54,54,54,54	0
56	MG	1A	3437	1/1	0.96	0.05	44,44,44,44	0
56	MG	1A	3871	1/1	0.96	0.05	22,22,22,22	0
56	MG	1A	3062	1/1	0.96	0.32	56,56,56,56	0
56	MG	1A	3051	1/1	0.96	0.09	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3198	1/1	0.96	0.07	51,51,51,51	0
56	MG	1A	4038	1/1	0.96	0.09	45,45,45,45	0
56	MG	1U	205	1/1	0.96	0.14	34,34,34,34	0
56	MG	1A	3442	1/1	0.96	0.07	56,56,56,56	0
56	MG	1A	3877	1/1	0.96	0.12	35,35,35,35	0
56	MG	1A	3878	1/1	0.96	0.12	33,33,33,33	0
56	MG	1V	201	1/1	0.96	0.16	30,30,30,30	0
56	MG	2A	3748	1/1	0.96	0.18	60,60,60,60	0
56	MG	1V	202	1/1	0.96	0.22	33,33,33,33	0
56	MG	1V	204	1/1	0.96	0.21	54,54,54,54	0
56	MG	1A	3371	1/1	0.96	0.14	50,50,50,50	0
56	MG	2A	3076	1/1	0.96	0.13	45,45,45,45	0
56	MG	1a	1721	1/1	0.96	0.20	49,49,49,49	0
56	MG	1A	4043	1/1	0.96	0.06	56,56,56,56	0
56	MG	1A	3750	1/1	0.96	0.06	18,18,18,18	0
56	MG	2A	3084	1/1	0.96	0.11	54,54,54,54	0
56	MG	1A	3093	1/1	0.96	0.13	28,28,28,28	0
56	MG	1X	103	1/1	0.96	0.23	49,49,49,49	0
56	MG	1A	3884	1/1	0.96	0.07	53,53,53,53	0
56	MG	1A	3445	1/1	0.96	0.22	37,37,37,37	0
56	MG	2A	3286	1/1	0.96	0.23	60,60,60,60	0
56	MG	1A	3754	1/1	0.96	0.05	29,29,29,29	0
56	MG	2A	3764	1/1	0.96	0.09	47,47,47,47	0
56	MG	2A	3766	1/1	0.96	0.13	47,47,47,47	0
56	MG	1A	3203	1/1	0.96	0.11	30,30,30,30	0
56	MG	1a	1730	1/1	0.96	0.05	44,44,44,44	0
56	MG	2A	3769	1/1	0.96	0.16	57,57,57,57	0
56	MG	1A	3065	1/1	0.96	0.13	52,52,52,52	0
56	MG	2A	3093	1/1	0.96	0.18	50,50,50,50	0
56	MG	2A	3772	1/1	0.96	0.08	50,50,50,50	0
56	MG	1A	4056	1/1	0.96	0.07	57,57,57,57	0
56	MG	1A	3889	1/1	0.96	0.06	24,24,24,24	0
56	MG	2A	3775	1/1	0.96	0.05	60,60,60,60	0
56	MG	10	102	1/1	0.96	0.05	42,42,42,42	0
56	MG	1A	3141	1/1	0.96	0.07	18,18,18,18	0
56	MG	1a	1739	1/1	0.96	0.10	59,59,59,59	0
56	MG	2A	3495	1/1	0.96	0.08	66,66,66,66	0
56	MG	2A	3783	1/1	0.96	0.07	36,36,36,36	0
56	MG	2A	3784	1/1	0.96	0.07	69,69,69,69	0
56	MG	1A	3517	1/1	0.96	0.08	55,55,55,55	0
56	MG	2A	3497	1/1	0.96	0.17	43,43,43,43	0
56	MG	2A	3788	1/1	0.96	0.07	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3789	1/1	0.96	0.09	69,69,69,69	0
56	MG	1A	3893	1/1	0.96	0.12	56,56,56,56	0
56	MG	1A	3607	1/1	0.96	0.07	54,54,54,54	0
56	MG	1A	3895	1/1	0.96	0.08	22,22,22,22	0
56	MG	1A	3761	1/1	0.96	0.11	49,49,49,49	0
56	MG	1A	3206	1/1	0.96	0.10	36,36,36,36	0
56	MG	1A	3610	1/1	0.96	0.06	35,35,35,35	0
56	MG	1A	3095	1/1	0.96	0.08	55,55,55,55	0
56	MG	1A	3613	1/1	0.96	0.13	41,41,41,41	0
56	MG	2A	3306	1/1	0.96	0.12	57,57,57,57	0
56	MG	2A	3109	1/1	0.96	0.09	45,45,45,45	0
56	MG	1a	1751	1/1	0.96	0.15	43,43,43,43	0
56	MG	1A	3614	1/1	0.96	0.07	27,27,27,27	0
56	MG	2A	3513	1/1	0.96	0.12	37,37,37,37	0
56	MG	1A	3768	1/1	0.96	0.05	26,26,26,26	0
56	MG	1A	4079	1/1	0.96	0.09	32,32,32,32	0
56	MG	2A	3807	1/1	0.96	0.05	56,56,56,56	0
56	MG	1A	3066	1/1	0.96	0.05	25,25,25,25	0
56	MG	2A	3809	1/1	0.96	0.07	58,58,58,58	0
56	MG	1A	3146	1/1	0.96	0.21	34,34,34,34	0
56	MG	1A	3097	1/1	0.96	0.05	35,35,35,35	0
56	MG	2A	3812	1/1	0.96	0.05	40,40,40,40	0
56	MG	1A	3456	1/1	0.96	0.11	45,45,45,45	0
56	MG	2A	3814	1/1	0.96	0.10	48,48,48,48	0
56	MG	1A	3214	1/1	0.96	0.05	39,39,39,39	0
56	MG	1A	3099	1/1	0.96	0.13	48,48,48,48	0
56	MG	2A	3818	1/1	0.96	0.08	52,52,52,52	0
56	MG	1A	3068	1/1	0.96	0.21	59,59,59,59	0
56	MG	1A	3916	1/1	0.96	0.10	35,35,35,35	0
56	MG	17	103	1/1	0.96	0.10	40,40,40,40	0
56	MG	2A	3825	1/1	0.96	0.08	62,62,62,62	0
56	MG	1A	3388	1/1	0.96	0.09	47,47,47,47	0
56	MG	18	101	1/1	0.96	0.27	58,58,58,58	0
56	MG	1a	1771	1/1	0.96	0.09	70,70,70,70	0
56	MG	18	102	1/1	0.96	0.16	41,41,41,41	0
56	MG	2A	3831	1/1	0.96	0.07	47,47,47,47	0
56	MG	2A	3128	1/1	0.96	0.18	65,65,65,65	0
56	MG	1A	3625	1/1	0.96	0.09	31,31,31,31	0
56	MG	2A	3539	1/1	0.96	0.06	57,57,57,57	0
56	MG	2a	1739	1/1	0.96	0.24	55,55,55,55	0
56	MG	2A	3837	1/1	0.96	0.07	49,49,49,49	0
56	MG	2A	3130	1/1	0.96	0.07	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3155	1/1	0.96	0.07	37,37,37,37	0
56	MG	2A	3133	1/1	0.96	0.16	75,75,75,75	0
56	MG	2A	3842	1/1	0.96	0.06	57,57,57,57	0
56	MG	2A	3544	1/1	0.96	0.06	52,52,52,52	0
56	MG	1A	3924	1/1	0.96	0.07	36,36,36,36	0
56	MG	1A	4093	1/1	0.96	0.15	46,46,46,46	0
56	MG	1A	3071	1/1	0.96	0.08	29,29,29,29	0
56	MG	1A	3275	1/1	0.96	0.08	25,25,25,25	0
56	MG	2A	3138	1/1	0.96	0.17	50,50,50,50	0
56	MG	1A	4096	1/1	0.96	0.10	50,50,50,50	0
56	MG	1A	4098	1/1	0.96	0.06	34,34,34,34	0
56	MG	2a	1753	1/1	0.96	0.07	71,71,71,71	0
56	MG	2A	3563	1/1	0.96	0.07	39,39,39,39	0
56	MG	1A	3103	1/1	0.96	0.05	32,32,32,32	0
56	MG	2A	3567	1/1	0.96	0.11	37,37,37,37	0
56	MG	1A	3643	1/1	0.96	0.14	49,49,49,49	0
56	MG	1B	201	1/1	0.96	0.07	41,41,41,41	0
56	MG	1A	3644	1/1	0.96	0.09	37,37,37,37	0
56	MG	1a	1610	1/1	0.96	0.13	52,52,52,52	0
56	MG	1A	3397	1/1	0.96	0.07	65,65,65,65	0
56	MG	2A	3577	1/1	0.96	0.10	41,41,41,41	0
56	MG	2A	3863	1/1	0.96	0.17	58,58,58,58	0
56	MG	1a	1613	1/1	0.96	0.06	58,58,58,58	0
56	MG	1A	3647	1/1	0.96	0.08	17,17,17,17	0
56	MG	1a	1800	1/1	0.96	0.07	74,74,74,74	0
56	MG	1B	205	1/1	0.96	0.17	54,54,54,54	0
56	MG	1A	3943	1/1	0.96	0.06	62,62,62,62	0
56	MG	1A	3648	1/1	0.96	0.11	56,56,56,56	0
56	MG	2A	3156	1/1	0.96	0.06	55,55,55,55	0
56	MG	2A	3872	1/1	0.96	0.08	50,50,50,50	0
56	MG	1A	3538	1/1	0.96	0.17	41,41,41,41	0
56	MG	1A	3398	1/1	0.96	0.06	51,51,51,51	0
56	MG	1A	3221	1/1	0.96	0.23	47,47,47,47	0
56	MG	1A	3951	1/1	0.96	0.06	40,40,40,40	0
56	MG	1A	3468	1/1	0.96	0.14	32,32,32,32	0
56	MG	1a	1814	1/1	0.96	0.14	57,57,57,57	0
56	MG	2a	1784	1/1	0.96	0.15	65,65,65,65	0
56	MG	2a	1785	1/1	0.96	0.06	70,70,70,70	0
56	MG	2A	3163	1/1	0.96	0.14	44,44,44,44	0
56	MG	1A	3042	1/1	0.96	0.13	27,27,27,27	0
56	MG	1A	3401	1/1	0.96	0.26	35,35,35,35	0
56	MG	2A	3600	1/1	0.96	0.05	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	3075	1/1	0.96	0.05	31,31,31,31	0
56	MG	1A	3660	1/1	0.96	0.08	47,47,47,47	0
56	MG	2a	1792	1/1	0.96	0.07	57,57,57,57	0
56	MG	1f	201	1/1	0.96	0.12	54,54,54,54	0
56	MG	1A	3472	1/1	0.96	0.06	42,42,42,42	0
56	MG	1B	219	1/1	0.96	0.13	44,44,44,44	0
56	MG	1A	3079	1/1	0.96	0.06	24,24,24,24	0
56	MG	2A	3607	1/1	0.96	0.09	61,61,61,61	0
56	MG	2A	3609	1/1	0.96	0.07	57,57,57,57	0
56	MG	1A	3663	1/1	0.96	0.07	29,29,29,29	0
56	MG	1m	3001	1/1	0.96	0.12	64,64,64,64	0
56	MG	1A	3963	1/1	0.96	0.05	35,35,35,35	0
56	MG	1B	224	1/1	0.96	0.12	59,59,59,59	0
56	MG	1a	1635	1/1	0.96	0.08	32,32,32,32	0
56	MG	2A	3616	1/1	0.96	0.13	46,46,46,46	0
56	MG	1A	3667	1/1	0.96	0.05	23,23,23,23	0
56	MG	1A	3108	1/1	0.96	0.28	46,46,46,46	0
56	MG	2A	3179	1/1	0.96	0.09	37,37,37,37	0
56	MG	1A	3548	1/1	0.96	0.08	25,25,25,25	0
56	MG	1A	3822	1/1	0.96	0.23	32,32,32,32	0
56	MG	1A	3341	1/1	0.96	0.06	49,49,49,49	0
56	MG	1A	3342	1/1	0.96	0.21	35,35,35,35	0
56	MG	2A	3379	1/1	0.96	0.05	53,53,53,53	0
56	MG	1A	3343	1/1	0.96	0.21	43,43,43,43	0
56	MG	2A	3631	1/1	0.96	0.07	54,54,54,54	0
56	MG	2A	3185	1/1	0.96	0.08	51,51,51,51	0
56	MG	2A	3635	1/1	0.96	0.17	48,48,48,48	0
56	MG	2A	3636	1/1	0.96	0.07	47,47,47,47	0
56	MG	2A	3637	1/1	0.96	0.07	53,53,53,53	0
56	MG	2A	3638	1/1	0.96	0.08	56,56,56,56	0
56	MG	1A	3972	1/1	0.96	0.07	45,45,45,45	0
56	MG	1A	3229	1/1	0.96	0.20	36,36,36,36	0
56	MG	1A	3975	1/1	0.96	0.14	61,61,61,61	0
56	MG	2A	3644	1/1	0.96	0.06	42,42,42,42	0
56	MG	1A	3293	1/1	0.96	0.17	33,33,33,33	0
56	MG	1A	3694	1/1	0.96	0.09	30,30,30,30	0
56	MG	2A	3192	1/1	0.96	0.23	71,71,71,71	0
56	MG	1A	3480	1/1	0.96	0.11	64,64,64,64	0
56	MG	1D	303	1/1	0.96	0.16	41,41,41,41	0
56	MG	1A	3555	1/1	0.96	0.06	47,47,47,47	0
56	MG	2A	3196	1/1	0.96	0.07	53,53,53,53	0
56	MG	1D	306	1/1	0.96	0.16	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1a	1653	1/1	0.96	0.15	49,49,49,49	0
56	MG	1A	3044	1/1	0.96	0.11	35,35,35,35	0
56	MG	1D	310	1/1	0.96	0.07	28,28,28,28	0
56	MG	2U	202	1/1	0.96	0.10	64,64,64,64	0
56	MG	1A	3982	1/1	0.96	0.09	57,57,57,57	0
56	MG	1A	3983	1/1	0.96	0.12	65,65,65,65	0
56	MG	1A	3702	1/1	0.96	0.07	32,32,32,32	0
56	MG	1E	301	1/1	0.96	0.18	40,40,40,40	0
56	MG	1A	3232	1/1	0.96	0.18	36,36,36,36	0
56	MG	2A	3002	1/1	0.96	0.30	62,62,62,62	0
56	MG	1E	303	1/1	0.96	0.18	40,40,40,40	0
56	MG	2A	3663	1/1	0.96	0.13	68,68,68,68	0
56	MG	1A	3836	1/1	0.96	0.11	49,49,49,49	0
56	MG	1A	3484	1/1	0.96	0.11	43,43,43,43	0
56	MG	1A	3112	1/1	0.96	0.14	31,31,31,31	0
56	MG	1A	3989	1/1	0.96	0.09	24,24,24,24	0
56	MG	1A	3710	1/1	0.96	0.06	34,34,34,34	0
56	MG	23	101	1/1	0.96	0.06	61,61,61,61	0
56	MG	25	101	1/1	0.96	0.13	57,57,57,57	0
56	MG	25	102	1/1	0.96	0.22	49,49,49,49	0
56	MG	1E	315	1/1	0.96	0.11	48,48,48,48	0
56	MG	1A	3082	1/1	0.96	0.17	38,38,38,38	0
56	MG	2A	3012	1/1	0.96	0.06	40,40,40,40	0
56	MG	1A	3118	1/1	0.96	0.15	30,30,30,30	0
56	MG	1A	3417	1/1	0.96	0.07	34,34,34,34	0
56	MG	2A	3413	1/1	0.96	0.11	42,42,42,42	0
56	MG	2A	3676	1/1	0.96	0.08	70,70,70,70	0
56	MG	1F	310	1/1	0.96	0.07	50,50,50,50	0
56	MG	1F	311	1/1	0.96	0.06	42,42,42,42	0
56	MG	1A	3055	1/1	0.96	0.08	33,33,33,33	0
56	MG	2A	3019	1/1	0.96	0.09	39,39,39,39	0
56	MG	1A	3845	1/1	0.96	0.05	37,37,37,37	0
56	MG	1A	3122	1/1	0.96	0.25	48,48,48,48	0
56	MG	1A	3847	1/1	0.96	0.07	39,39,39,39	0
56	MG	1A	3019	1/1	0.96	0.21	51,51,51,51	0
56	MG	1A	3357	1/1	0.96	0.13	39,39,39,39	0
56	MG	2A	3026	1/1	0.96	0.11	51,51,51,51	0
56	MG	1A	3126	1/1	0.96	0.20	38,38,38,38	0
56	MG	1A	3087	1/1	0.96	0.20	36,36,36,36	0
56	MG	1A	3853	1/1	0.96	0.09	42,42,42,42	0
56	MG	1A	3575	1/1	0.96	0.09	34,34,34,34	0
56	MG	2A	3694	1/1	0.96	0.07	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1N	204	1/1	0.96	0.25	45,45,45,45	0
56	MG	2A	3033	1/1	0.96	0.08	49,49,49,49	0
56	MG	1A	3855	1/1	0.96	0.10	45,45,45,45	0
56	MG	1A	3426	1/1	0.96	0.06	48,48,48,48	0
56	MG	2A	3038	1/1	0.96	0.11	36,36,36,36	0
56	MG	1O	202	1/1	0.96	0.08	49,49,49,49	0
56	MG	2A	3704	1/1	0.96	0.06	31,31,31,31	0
56	MG	1O	203	1/1	0.96	0.12	50,50,50,50	0
56	MG	1A	4013	1/1	0.96	0.06	31,31,31,31	0
56	MG	2A	3241	1/1	0.96	0.19	52,52,52,52	0
59	ZN	2n	501	1/1	0.96	0.07	101,101,101,101	0
56	MG	1a	1619	1/1	0.97	0.15	51,51,51,51	0
56	MG	1a	1802	1/1	0.97	0.05	60,60,60,60	0
56	MG	1A	3131	1/1	0.97	0.08	43,43,43,43	0
56	MG	2a	1643	1/1	0.97	0.10	55,55,55,55	0
56	MG	2A	3517	1/1	0.97	0.21	60,60,60,60	0
56	MG	2A	3519	1/1	0.97	0.11	54,54,54,54	0
56	MG	2A	3324	1/1	0.97	0.08	60,60,60,60	0
56	MG	2A	3325	1/1	0.97	0.06	56,56,56,56	0
56	MG	2a	1648	1/1	0.97	0.10	64,64,64,64	0
56	MG	2A	3765	1/1	0.97	0.09	47,47,47,47	0
56	MG	1a	1806	1/1	0.97	0.06	57,57,57,57	0
56	MG	2A	3523	1/1	0.97	0.11	43,43,43,43	0
56	MG	1A	3973	1/1	0.97	0.12	57,57,57,57	0
56	MG	1a	1622	1/1	0.97	0.06	48,48,48,48	0
56	MG	1A	3711	1/1	0.97	0.07	24,24,24,24	0
56	MG	1A	3713	1/1	0.97	0.07	27,27,27,27	0
56	MG	1A	3212	1/1	0.97	0.10	48,48,48,48	0
56	MG	2A	3530	1/1	0.97	0.08	51,51,51,51	0
56	MG	1A	3579	1/1	0.97	0.08	39,39,39,39	0
56	MG	1A	3978	1/1	0.97	0.08	65,65,65,65	0
56	MG	2A	3148	1/1	0.97	0.22	56,56,56,56	0
56	MG	2A	3777	1/1	0.97	0.05	59,59,59,59	0
56	MG	2A	3778	1/1	0.97	0.05	59,59,59,59	0
56	MG	2A	3779	1/1	0.97	0.12	63,63,63,63	0
56	MG	1A	3067	1/1	0.97	0.12	34,34,34,34	0
56	MG	2A	3150	1/1	0.97	0.07	45,45,45,45	0
56	MG	1A	3370	1/1	0.97	0.14	37,37,37,37	0
56	MG	1B	236	1/1	0.97	0.05	38,38,38,38	0
56	MG	1A	3584	1/1	0.97	0.07	40,40,40,40	0
56	MG	1A	3317	1/1	0.97	0.05	36,36,36,36	0
56	MG	1A	3720	1/1	0.97	0.04	13,13,13,13	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3787	1/1	0.97	0.05	47,47,47,47	0
56	MG	2A	3542	1/1	0.97	0.07	65,65,65,65	0
56	MG	2a	1673	1/1	0.97	0.08	62,62,62,62	0
56	MG	1D	304	1/1	0.97	0.08	18,18,18,18	0
56	MG	1A	3439	1/1	0.97	0.18	34,34,34,34	0
56	MG	2A	3545	1/1	0.97	0.07	40,40,40,40	0
56	MG	2A	3546	1/1	0.97	0.05	49,49,49,49	0
56	MG	1A	3372	1/1	0.97	0.14	44,44,44,44	0
56	MG	1l	202	1/1	0.97	0.09	65,65,65,65	0
56	MG	2a	1680	1/1	0.97	0.11	52,52,52,52	0
56	MG	2A	3554	1/1	0.97	0.11	54,54,54,54	0
56	MG	1A	3043	1/1	0.97	0.18	33,33,33,33	0
56	MG	1a	1638	1/1	0.97	0.08	46,46,46,46	0
56	MG	2A	3558	1/1	0.97	0.06	51,51,51,51	0
56	MG	1D	309	1/1	0.97	0.17	47,47,47,47	0
56	MG	1A	3849	1/1	0.97	0.06	56,56,56,56	0
56	MG	1A	3724	1/1	0.97	0.16	44,44,44,44	0
56	MG	2A	3803	1/1	0.97	0.07	62,62,62,62	0
56	MG	1A	3030	1/1	0.97	0.23	27,27,27,27	0
56	MG	1A	3263	1/1	0.97	0.04	49,49,49,49	0
56	MG	1A	3992	1/1	0.97	0.08	22,22,22,22	0
56	MG	2A	3569	1/1	0.97	0.08	37,37,37,37	0
56	MG	1A	3322	1/1	0.97	0.06	52,52,52,52	0
56	MG	1A	3012	1/1	0.97	0.04	26,26,26,26	0
56	MG	1A	3111	1/1	0.97	0.05	41,41,41,41	0
56	MG	1A	3175	1/1	0.97	0.32	32,32,32,32	0
56	MG	1A	3514	1/1	0.97	0.14	29,29,29,29	0
56	MG	1A	3734	1/1	0.97	0.09	47,47,47,47	0
56	MG	1E	311	1/1	0.97	0.07	21,21,21,21	0
56	MG	2A	3815	1/1	0.97	0.07	41,41,41,41	0
56	MG	1A	4000	1/1	0.97	0.05	40,40,40,40	0
56	MG	1A	3735	1/1	0.97	0.04	45,45,45,45	0
56	MG	2A	3581	1/1	0.97	0.07	33,33,33,33	0
56	MG	1A	3736	1/1	0.97	0.06	29,29,29,29	0
56	MG	1A	3862	1/1	0.97	0.04	33,33,33,33	0
56	MG	1F	306	1/1	0.97	0.11	40,40,40,40	0
56	MG	1x	109	1/1	0.97	0.08	38,38,38,38	0
56	MG	1A	3177	1/1	0.97	0.13	30,30,30,30	0
56	MG	1A	3449	1/1	0.97	0.14	34,34,34,34	0
56	MG	1A	3450	1/1	0.97	0.21	41,41,41,41	0
56	MG	1A	3866	1/1	0.97	0.12	46,46,46,46	0
56	MG	1A	3741	1/1	0.97	0.05	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	1A	3268	1/1	0.97	0.22	34,34,34,34	0
56	MG	1A	3519	1/1	0.97	0.13	23,23,23,23	0
56	MG	1G	201	1/1	0.97	0.09	40,40,40,40	0
56	MG	2A	3189	1/1	0.97	0.06	55,55,55,55	0
56	MG	2A	3838	1/1	0.97	0.08	65,65,65,65	0
56	MG	1A	3179	1/1	0.97	0.07	18,18,18,18	0
56	MG	1A	3383	1/1	0.97	0.04	43,43,43,43	0
56	MG	1A	3522	1/1	0.97	0.16	40,40,40,40	0
56	MG	1A	3385	1/1	0.97	0.18	34,34,34,34	0
56	MG	1A	3009	1/1	0.97	0.08	20,20,20,20	0
56	MG	1A	3875	1/1	0.97	0.09	32,32,32,32	0
56	MG	2A	3845	1/1	0.97	0.05	45,45,45,45	0
56	MG	1N	203	1/1	0.97	0.05	36,36,36,36	0
56	MG	2A	3847	1/1	0.97	0.07	51,51,51,51	0
56	MG	2A	3848	1/1	0.97	0.09	43,43,43,43	0
56	MG	1A	3113	1/1	0.97	0.15	33,33,33,33	0
56	MG	2A	3608	1/1	0.97	0.08	47,47,47,47	0
56	MG	1A	3273	1/1	0.97	0.09	40,40,40,40	0
56	MG	1A	3274	1/1	0.97	0.15	45,45,45,45	0
56	MG	1A	3879	1/1	0.97	0.21	37,37,37,37	0
56	MG	2A	3612	1/1	0.97	0.07	34,34,34,34	0
56	MG	1A	3076	1/1	0.97	0.07	32,32,32,32	0
56	MG	2A	3015	1/1	0.97	0.15	59,59,59,59	0
56	MG	1A	3115	1/1	0.97	0.06	45,45,45,45	0
56	MG	1A	3116	1/1	0.97	0.07	47,47,47,47	0
56	MG	1A	4031	1/1	0.97	0.08	42,42,42,42	0
56	MG	1A	3883	1/1	0.97	0.18	39,39,39,39	0
56	MG	1A	3281	1/1	0.97	0.10	30,30,30,30	0
56	MG	2A	3208	1/1	0.97	0.06	64,64,64,64	0
56	MG	2A	3622	1/1	0.97	0.08	40,40,40,40	0
56	MG	1P	204	1/1	0.97	0.21	28,28,28,28	0
56	MG	1A	3145	1/1	0.97	0.13	28,28,28,28	0
56	MG	1A	3534	1/1	0.97	0.10	54,54,54,54	0
56	MG	1A	3285	1/1	0.97	0.20	34,34,34,34	0
56	MG	1A	3286	1/1	0.97	0.14	49,49,49,49	0
56	MG	2A	3027	1/1	0.97	0.07	45,45,45,45	0
56	MG	2A	3870	1/1	0.97	0.13	41,41,41,41	0
56	MG	2A	3632	1/1	0.97	0.11	59,59,59,59	0
56	MG	1A	3537	1/1	0.97	0.18	32,32,32,32	0
56	MG	1A	3287	1/1	0.97	0.18	55,55,55,55	0
56	MG	1A	3288	1/1	0.97	0.11	38,38,38,38	0
56	MG	2a	1757	1/1	0.97	0.06	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3892	1/1	0.97	0.08	38,38,38,38	0
56	MG	1A	4045	1/1	0.97	0.11	31,31,31,31	0
56	MG	1A	3077	1/1	0.97	0.21	48,48,48,48	0
56	MG	1A	3638	1/1	0.97	0.06	26,26,26,26	0
56	MG	2A	3641	1/1	0.97	0.14	39,39,39,39	0
56	MG	2A	3642	1/1	0.97	0.10	57,57,57,57	0
56	MG	2a	1765	1/1	0.97	0.09	68,68,68,68	0
56	MG	2A	3035	1/1	0.97	0.06	51,51,51,51	0
56	MG	1A	4049	1/1	0.97	0.05	48,48,48,48	0
56	MG	1A	3078	1/1	0.97	0.14	38,38,38,38	0
56	MG	1A	3770	1/1	0.97	0.05	33,33,33,33	0
56	MG	1A	3897	1/1	0.97	0.10	25,25,25,25	0
56	MG	1A	3190	1/1	0.97	0.16	32,32,32,32	0
56	MG	1A	3774	1/1	0.97	0.09	31,31,31,31	0
56	MG	1A	4057	1/1	0.97	0.09	65,65,65,65	0
56	MG	1A	3775	1/1	0.97	0.05	29,29,29,29	0
56	MG	2a	1776	1/1	0.97	0.10	51,51,51,51	0
56	MG	1A	3407	1/1	0.97	0.05	43,43,43,43	0
56	MG	1A	3048	1/1	0.97	0.20	34,34,34,34	0
56	MG	1a	1705	1/1	0.97	0.07	51,51,51,51	0
56	MG	1A	4061	1/1	0.97	0.04	37,37,37,37	0
56	MG	1A	3123	1/1	0.97	0.16	42,42,42,42	0
56	MG	1A	4063	1/1	0.97	0.06	46,46,46,46	0
56	MG	1A	3195	1/1	0.97	0.23	30,30,30,30	0
56	MG	2D	301	1/1	0.97	0.10	44,44,44,44	0
56	MG	2D	302	1/1	0.97	0.19	51,51,51,51	0
56	MG	1A	3782	1/1	0.97	0.08	35,35,35,35	0
56	MG	1A	4067	1/1	0.97	0.08	43,43,43,43	0
56	MG	1W	202	1/1	0.97	0.12	48,48,48,48	0
56	MG	1A	3651	1/1	0.97	0.05	25,25,25,25	0
56	MG	1A	3910	1/1	0.97	0.15	19,19,19,19	0
56	MG	2A	3664	1/1	0.97	0.05	39,39,39,39	0
56	MG	1A	3196	1/1	0.97	0.21	34,34,34,34	0
56	MG	1A	3351	1/1	0.97	0.11	41,41,41,41	0
56	MG	1A	3242	1/1	0.97	0.17	32,32,32,32	0
56	MG	1A	3243	1/1	0.97	0.10	41,41,41,41	0
56	MG	1Y	203	1/1	0.97	0.21	48,48,48,48	0
56	MG	2E	306	1/1	0.97	0.06	38,38,38,38	0
56	MG	1A	3036	1/1	0.97	0.07	39,39,39,39	0
56	MG	1A	3917	1/1	0.97	0.14	31,31,31,31	0
56	MG	1A	3920	1/1	0.97	0.08	21,21,21,21	0
56	MG	1A	3125	1/1	0.97	0.10	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3001	1/1	0.97	0.07	34,34,34,34	0
56	MG	10	103	1/1	0.97	0.08	39,39,39,39	0
56	MG	2F	304	1/1	0.97	0.10	45,45,45,45	0
56	MG	1A	3798	1/1	0.97	0.06	46,46,46,46	0
56	MG	1A	3801	1/1	0.97	0.10	27,27,27,27	0
56	MG	10	106	1/1	0.97	0.04	42,42,42,42	0
56	MG	1A	4085	1/1	0.97	0.05	38,38,38,38	0
56	MG	1A	3200	1/1	0.97	0.15	40,40,40,40	0
56	MG	2A	3681	1/1	0.97	0.07	46,46,46,46	0
56	MG	2A	3259	1/1	0.97	0.06	63,63,63,63	0
56	MG	11	101	1/1	0.97	0.26	37,37,37,37	0
56	MG	1A	3483	1/1	0.97	0.10	38,38,38,38	0
56	MG	1a	1733	1/1	0.97	0.05	34,34,34,34	0
56	MG	2A	3077	1/1	0.97	0.12	43,43,43,43	0
56	MG	1A	3419	1/1	0.97	0.09	35,35,35,35	0
56	MG	1A	3929	1/1	0.97	0.08	54,54,54,54	0
56	MG	2U	201	1/1	0.97	0.10	59,59,59,59	0
56	MG	2A	3081	1/1	0.97	0.15	53,53,53,53	0
56	MG	2A	3082	1/1	0.97	0.17	58,58,58,58	0
56	MG	2A	3692	1/1	0.97	0.07	43,43,43,43	0
56	MG	1A	3665	1/1	0.97	0.04	22,22,22,22	0
56	MG	1A	3666	1/1	0.97	0.05	26,26,26,26	0
56	MG	1A	3932	1/1	0.97	0.07	46,46,46,46	0
56	MG	2A	3696	1/1	0.97	0.06	53,53,53,53	0
56	MG	1A	3485	1/1	0.97	0.16	34,34,34,34	0
56	MG	1A	3202	1/1	0.97	0.07	40,40,40,40	0
56	MG	1A	3937	1/1	0.97	0.05	60,60,60,60	0
56	MG	1A	3939	1/1	0.97	0.06	40,40,40,40	0
56	MG	13	105	1/1	0.97	0.08	55,55,55,55	0
56	MG	2A	3702	1/1	0.97	0.06	65,65,65,65	0
56	MG	2A	3703	1/1	0.97	0.10	60,60,60,60	0
56	MG	1A	3941	1/1	0.97	0.10	51,51,51,51	0
56	MG	1A	4099	1/1	0.97	0.05	30,30,30,30	0
56	MG	15	101	1/1	0.97	0.15	26,26,26,26	0
56	MG	1A	4100	1/1	0.97	0.10	53,53,53,53	0
56	MG	1a	1752	1/1	0.97	0.09	54,54,54,54	0
56	MG	1A	3942	1/1	0.97	0.07	37,37,37,37	0
56	MG	1A	3669	1/1	0.97	0.05	42,42,42,42	0
56	MG	1A	3944	1/1	0.97	0.07	50,50,50,50	0
56	MG	27	102	1/1	0.97	0.06	50,50,50,50	0
56	MG	1A	3159	1/1	0.97	0.20	30,30,30,30	0
56	MG	17	101	1/1	0.97	0.15	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	1759	1/1	0.97	0.13	60,60,60,60	0
56	MG	17	102	1/1	0.97	0.23	33,33,33,33	0
56	MG	1A	3675	1/1	0.97	0.05	29,29,29,29	0
56	MG	2A	3104	1/1	0.97	0.04	34,34,34,34	0
56	MG	1A	3676	1/1	0.97	0.04	32,32,32,32	0
56	MG	1A	3561	1/1	0.97	0.14	27,27,27,27	0
56	MG	2A	3722	1/1	0.97	0.10	44,44,44,44	0
56	MG	1A	3160	1/1	0.97	0.17	34,34,34,34	0
56	MG	2A	3724	1/1	0.97	0.09	47,47,47,47	0
56	MG	18	103	1/1	0.97	0.11	44,44,44,44	0
56	MG	1A	3685	1/1	0.97	0.07	46,46,46,46	0
56	MG	18	105	1/1	0.97	0.13	45,45,45,45	0
56	MG	1A	3686	1/1	0.97	0.06	25,25,25,25	0
56	MG	1A	3955	1/1	0.97	0.07	53,53,53,53	0
56	MG	1A	3956	1/1	0.97	0.04	46,46,46,46	0
56	MG	2a	1614	1/1	0.97	0.13	64,64,64,64	0
56	MG	1A	3423	1/1	0.97	0.21	54,54,54,54	0
56	MG	1B	212	1/1	0.97	0.05	50,50,50,50	0
56	MG	1a	1775	1/1	0.97	0.06	70,70,70,70	0
56	MG	1A	3162	1/1	0.97	0.26	30,30,30,30	0
56	MG	1A	3021	1/1	0.97	0.14	24,24,24,24	0
56	MG	1A	3052	1/1	0.97	0.08	46,46,46,46	0
56	MG	2A	3120	1/1	0.97	0.05	42,42,42,42	0
56	MG	1A	3085	1/1	0.97	0.08	31,31,31,31	0
56	MG	1a	1607	1/1	0.97	0.06	57,57,57,57	0
56	MG	1A	3698	1/1	0.97	0.07	63,63,63,63	0
56	MG	1A	3007	1/1	0.97	0.07	34,34,34,34	0
56	MG	1A	3366	1/1	0.97	0.10	46,46,46,46	0
56	MG	1B	220	1/1	0.97	0.06	36,36,36,36	0
56	MG	1A	3432	1/1	0.97	0.15	54,54,54,54	0
56	MG	2x	107	1/1	0.97	0.08	55,55,55,55	0
56	MG	2A	3503	1/1	0.97	0.08	73,73,73,73	0
56	MG	1a	1791	1/1	0.97	0.12	72,72,72,72	0
56	MG	1A	3703	1/1	0.97	0.11	27,27,27,27	0
56	MG	2A	3506	1/1	0.97	0.06	52,52,52,52	0
56	MG	1a	1793	1/1	0.97	0.09	45,45,45,45	0
56	MG	2A	3752	1/1	0.97	0.10	42,42,42,42	0
56	MG	2A	3131	1/1	0.97	0.12	49,49,49,49	0
56	MG	1A	3574	1/1	0.97	0.10	28,28,28,28	0
56	MG	1A	3433	1/1	0.97	0.08	44,44,44,44	0
58	A1A1J	2A	3877	34/34	0.97	0.09	37,42,48,53	0
56	MG	1A	3708	1/1	0.97	0.06	12,12,12,12	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3576	1/1	0.97	0.06	21,21,21,21	0
56	MG	2A	3037	1/1	0.98	0.06	47,47,47,47	0
56	MG	1D	301	1/1	0.98	0.19	32,32,32,32	0
56	MG	1A	3151	1/1	0.98	0.08	36,36,36,36	0
56	MG	1A	3904	1/1	0.98	0.04	19,19,19,19	0
56	MG	1A	3032	1/1	0.98	0.15	20,20,20,20	0
56	MG	2A	3514	1/1	0.98	0.17	48,48,48,48	0
56	MG	1A	3704	1/1	0.98	0.07	22,22,22,22	0
56	MG	1A	4024	1/1	0.98	0.06	46,46,46,46	0
56	MG	1a	1734	1/1	0.98	0.10	32,32,32,32	0
56	MG	1a	1735	1/1	0.98	0.13	46,46,46,46	0
56	MG	1D	307	1/1	0.98	0.12	34,34,34,34	0
56	MG	1A	3612	1/1	0.98	0.10	26,26,26,26	0
56	MG	1A	3908	1/1	0.98	0.08	36,36,36,36	0
56	MG	1A	3706	1/1	0.98	0.09	31,31,31,31	0
56	MG	2a	1716	1/1	0.98	0.06	70,70,70,70	0
56	MG	1A	3269	1/1	0.98	0.09	46,46,46,46	0
56	MG	1A	3201	1/1	0.98	0.14	18,18,18,18	0
56	MG	1A	3153	1/1	0.98	0.05	30,30,30,30	0
56	MG	2A	3527	1/1	0.98	0.10	31,31,31,31	0
56	MG	1A	3176	1/1	0.98	0.16	23,23,23,23	0
56	MG	1A	3154	1/1	0.98	0.13	37,37,37,37	0
56	MG	1A	3712	1/1	0.98	0.04	32,32,32,32	0
56	MG	2D	305	1/1	0.98	0.09	39,39,39,39	0
56	MG	1A	4036	1/1	0.98	0.05	50,50,50,50	0
56	MG	1a	1748	1/1	0.98	0.08	57,57,57,57	0
56	MG	2A	3718	1/1	0.98	0.05	53,53,53,53	0
56	MG	1E	305	1/1	0.98	0.09	30,30,30,30	0
56	MG	2A	3534	1/1	0.98	0.06	36,36,36,36	0
56	MG	1E	306	1/1	0.98	0.13	30,30,30,30	0
56	MG	1A	3056	1/1	0.98	0.12	43,43,43,43	0
56	MG	1E	308	1/1	0.98	0.10	30,30,30,30	0
56	MG	1A	3918	1/1	0.98	0.05	26,26,26,26	0
56	MG	1A	3156	1/1	0.98	0.23	40,40,40,40	0
56	MG	1A	3033	1/1	0.98	0.29	34,34,34,34	0
56	MG	1E	312	1/1	0.98	0.12	25,25,25,25	0
56	MG	1a	1612	1/1	0.98	0.11	29,29,29,29	0
56	MG	2E	310	1/1	0.98	0.09	64,64,64,64	0
56	MG	1A	3621	1/1	0.98	0.08	21,21,21,21	0
56	MG	1E	314	1/1	0.98	0.14	40,40,40,40	0
56	MG	1A	3320	1/1	0.98	0.12	30,30,30,30	0
56	MG	2A	3070	1/1	0.98	0.06	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	3547	1/1	0.98	0.04	48,48,48,48	0
56	MG	1F	301	1/1	0.98	0.09	34,34,34,34	0
56	MG	2A	3549	1/1	0.98	0.08	49,49,49,49	0
56	MG	2A	3550	1/1	0.98	0.10	45,45,45,45	0
56	MG	1A	3560	1/1	0.98	0.14	35,35,35,35	0
56	MG	1F	303	1/1	0.98	0.11	28,28,28,28	0
56	MG	1A	3277	1/1	0.98	0.16	36,36,36,36	0
56	MG	1a	1766	1/1	0.98	0.05	65,65,65,65	0
56	MG	1F	305	1/1	0.98	0.14	36,36,36,36	0
56	MG	2A	3559	1/1	0.98	0.06	33,33,33,33	0
56	MG	1A	3926	1/1	0.98	0.10	39,39,39,39	0
56	MG	1a	1769	1/1	0.98	0.08	56,56,56,56	0
56	MG	2A	3079	1/1	0.98	0.08	38,38,38,38	0
56	MG	1F	307	1/1	0.98	0.06	40,40,40,40	0
56	MG	1A	3137	1/1	0.98	0.19	29,29,29,29	0
56	MG	1A	4047	1/1	0.98	0.07	25,25,25,25	0
56	MG	2A	3568	1/1	0.98	0.06	53,53,53,53	0
56	MG	1A	3824	1/1	0.98	0.05	35,35,35,35	0
56	MG	1A	3279	1/1	0.98	0.11	32,32,32,32	0
56	MG	1A	4050	1/1	0.98	0.05	47,47,47,47	0
56	MG	2A	3572	1/1	0.98	0.07	46,46,46,46	0
56	MG	1A	3628	1/1	0.98	0.05	29,29,29,29	0
56	MG	1A	3629	1/1	0.98	0.07	28,28,28,28	0
56	MG	1A	3003	1/1	0.98	0.04	27,27,27,27	0
56	MG	2A	3576	1/1	0.98	0.08	46,46,46,46	0
56	MG	1A	3933	1/1	0.98	0.04	41,41,41,41	0
56	MG	1A	3725	1/1	0.98	0.05	39,39,39,39	0
56	MG	1A	3631	1/1	0.98	0.08	52,52,52,52	0
56	MG	1A	3101	1/1	0.98	0.05	44,44,44,44	0
56	MG	1a	1784	1/1	0.98	0.05	73,73,73,73	0
56	MG	1A	3634	1/1	0.98	0.05	45,45,45,45	0
56	MG	1A	3635	1/1	0.98	0.03	26,26,26,26	0
56	MG	1A	3637	1/1	0.98	0.03	18,18,18,18	0
56	MG	2A	3585	1/1	0.98	0.08	55,55,55,55	0
56	MG	1a	1788	1/1	0.98	0.06	74,74,74,74	0
56	MG	2A	3587	1/1	0.98	0.04	43,43,43,43	0
56	MG	1a	1789	1/1	0.98	0.05	60,60,60,60	0
56	MG	2A	3589	1/1	0.98	0.08	65,65,65,65	0
56	MG	1A	3081	1/1	0.98	0.08	36,36,36,36	0
56	MG	1A	3639	1/1	0.98	0.08	26,26,26,26	0
56	MG	1A	3946	1/1	0.98	0.09	28,28,28,28	0
56	MG	1A	3640	1/1	0.98	0.07	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	1795	1/1	0.98	0.04	71,71,71,71	0
56	MG	1A	4066	1/1	0.98	0.05	45,45,45,45	0
56	MG	1A	3642	1/1	0.98	0.06	20,20,20,20	0
56	MG	1A	4068	1/1	0.98	0.08	13,13,13,13	0
56	MG	1A	3840	1/1	0.98	0.05	32,32,32,32	0
56	MG	1A	3213	1/1	0.98	0.19	31,31,31,31	0
56	MG	1P	202	1/1	0.98	0.17	29,29,29,29	0
56	MG	1A	3737	1/1	0.98	0.07	21,21,21,21	0
56	MG	1A	3186	1/1	0.98	0.06	37,37,37,37	0
56	MG	1a	1808	1/1	0.98	0.04	59,59,59,59	0
56	MG	1A	4074	1/1	0.98	0.06	41,41,41,41	0
56	MG	1A	3249	1/1	0.98	0.19	34,34,34,34	0
56	MG	1Q	201	1/1	0.98	0.07	26,26,26,26	0
56	MG	2A	3428	1/1	0.98	0.37	60,60,60,60	0
56	MG	1A	3954	1/1	0.98	0.05	45,45,45,45	0
56	MG	1a	1654	1/1	0.98	0.04	53,53,53,53	0
56	MG	1A	3646	1/1	0.98	0.07	20,20,20,20	0
56	MG	1A	3013	1/1	0.98	0.18	26,26,26,26	0
56	MG	1A	3188	1/1	0.98	0.13	36,36,36,36	0
56	MG	1A	3217	1/1	0.98	0.21	37,37,37,37	0
56	MG	1R	201	1/1	0.98	0.21	47,47,47,47	0
56	MG	1R	202	1/1	0.98	0.23	34,34,34,34	0
56	MG	1A	3650	1/1	0.98	0.13	23,23,23,23	0
56	MG	1A	3023	1/1	0.98	0.10	17,17,17,17	0
56	MG	1A	3117	1/1	0.98	0.10	31,31,31,31	0
56	MG	1A	3653	1/1	0.98	0.04	27,27,27,27	0
56	MG	2A	3623	1/1	0.98	0.05	40,40,40,40	0
56	MG	1A	3255	1/1	0.98	0.15	37,37,37,37	0
56	MG	1A	3166	1/1	0.98	0.20	35,35,35,35	0
56	MG	1A	3192	1/1	0.98	0.18	37,37,37,37	0
56	MG	1A	3752	1/1	0.98	0.06	56,56,56,56	0
56	MG	1A	3657	1/1	0.98	0.07	46,46,46,46	0
56	MG	2A	3630	1/1	0.98	0.06	40,40,40,40	0
56	MG	1A	3429	1/1	0.98	0.21	38,38,38,38	0
56	MG	1A	3430	1/1	0.98	0.05	38,38,38,38	0
56	MG	2A	3633	1/1	0.98	0.03	35,35,35,35	0
56	MG	1A	3970	1/1	0.98	0.06	18,18,18,18	0
56	MG	1U	206	1/1	0.98	0.22	41,41,41,41	0
56	MG	1A	3038	1/1	0.98	0.15	36,36,36,36	0
56	MG	1A	3194	1/1	0.98	0.24	37,37,37,37	0
56	MG	2A	3139	1/1	0.98	0.12	41,41,41,41	0
56	MG	1A	3587	1/1	0.98	0.19	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3299	1/1	0.98	0.04	31,31,31,31	0
56	MG	1A	3664	1/1	0.98	0.03	23,23,23,23	0
56	MG	1A	3589	1/1	0.98	0.08	37,37,37,37	0
56	MG	1V	205	1/1	0.98	0.09	37,37,37,37	0
56	MG	2A	3827	1/1	0.98	0.04	70,70,70,70	0
56	MG	1A	3224	1/1	0.98	0.14	34,34,34,34	0
56	MG	1A	3591	1/1	0.98	0.12	43,43,43,43	0
56	MG	1A	3147	1/1	0.98	0.04	29,29,29,29	0
56	MG	1W	204	1/1	0.98	0.07	36,36,36,36	0
56	MG	2A	3832	1/1	0.98	0.05	57,57,57,57	0
56	MG	1W	205	1/1	0.98	0.06	37,37,37,37	0
56	MG	2A	3834	1/1	0.98	0.04	37,37,37,37	0
56	MG	1A	3226	1/1	0.98	0.08	43,43,43,43	0
56	MG	1A	3303	1/1	0.98	0.05	27,27,27,27	0
56	MG	1X	101	1/1	0.98	0.09	32,32,32,32	0
56	MG	1X	102	1/1	0.98	0.07	43,43,43,43	0
56	MG	1A	3673	1/1	0.98	0.09	23,23,23,23	0
56	MG	1X	104	1/1	0.98	0.06	50,50,50,50	0
56	MG	1X	105	1/1	0.98	0.06	29,29,29,29	0
56	MG	1A	3304	1/1	0.98	0.04	37,37,37,37	0
56	MG	1A	3771	1/1	0.98	0.07	20,20,20,20	0
56	MG	1A	3390	1/1	0.98	0.10	42,42,42,42	0
56	MG	1A	3677	1/1	0.98	0.07	22,22,22,22	0
56	MG	1A	3597	1/1	0.98	0.13	32,32,32,32	0
56	MG	1A	3680	1/1	0.98	0.09	21,21,21,21	0
56	MG	1A	3391	1/1	0.98	0.35	33,33,33,33	0
56	MG	1A	3778	1/1	0.98	0.07	18,18,18,18	0
56	MG	1A	3120	1/1	0.98	0.08	43,43,43,43	0
56	MG	1A	3780	1/1	0.98	0.06	39,39,39,39	0
56	MG	1A	3393	1/1	0.98	0.11	26,26,26,26	0
56	MG	1A	3228	1/1	0.98	0.13	41,41,41,41	0
56	MG	1A	3783	1/1	0.98	0.06	29,29,29,29	0
56	MG	1A	3784	1/1	0.98	0.06	20,20,20,20	0
56	MG	1A	3395	1/1	0.98	0.38	41,41,41,41	0
56	MG	1A	3786	1/1	0.98	0.06	44,44,44,44	0
56	MG	1A	3039	1/1	0.98	0.26	32,32,32,32	0
56	MG	1A	3692	1/1	0.98	0.04	29,29,29,29	0
56	MG	1A	3350	1/1	0.98	0.17	28,28,28,28	0
56	MG	1A	3790	1/1	0.98	0.09	57,57,57,57	0
56	MG	2A	3021	1/1	0.98	0.10	29,29,29,29	0
56	MG	1A	4005	1/1	0.98	0.05	22,22,22,22	0
56	MG	1A	4006	1/1	0.98	0.04	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3695	1/1	0.98	0.12	25,25,25,25	0
56	MG	13	101	1/1	0.98	0.06	28,28,28,28	0
56	MG	1A	3495	1/1	0.98	0.10	38,38,38,38	0
56	MG	1A	3697	1/1	0.98	0.09	29,29,29,29	0
56	MG	1A	3606	1/1	0.98	0.18	26,26,26,26	0
56	MG	1A	4011	1/1	0.98	0.06	29,29,29,29	0
56	MG	2A	3685	1/1	0.98	0.14	64,64,64,64	0
56	MG	2A	3501	1/1	0.98	0.04	70,70,70,70	0
56	MG	1A	3699	1/1	0.98	0.07	26,26,26,26	0
56	MG	1A	3799	1/1	0.98	0.03	21,21,21,21	0
56	MG	1A	3800	1/1	0.98	0.05	20,20,20,20	0
56	MG	1A	4015	1/1	0.98	0.05	25,25,25,25	0
58	A1A1J	1A	4103	34/34	0.98	0.06	18,23,27,29	0
56	MG	15	103	1/1	0.98	0.18	26,26,26,26	0
59	ZN	14	103	1/1	0.98	0.10	87,87,87,87	0
59	ZN	1n	103	1/1	0.98	0.04	75,75,75,75	0
59	ZN	2Y	501	1/1	0.98	0.04	101,101,101,101	0
56	MG	1A	3308	1/1	0.98	0.04	29,29,29,29	0
59	ZN	29	102	1/1	0.98	0.04	80,80,80,80	0
56	MG	1A	3150	1/1	0.98	0.25	37,37,37,37	0
60	SF4	1d	501	8/8	0.98	0.05	68,75,81,83	0
60	SF4	2d	302	8/8	0.98	0.04	67,74,79,84	0
56	MG	2A	3594	1/1	0.99	0.03	49,49,49,49	0
56	MG	1A	3238	1/1	0.99	0.10	29,29,29,29	0
56	MG	1A	3502	1/1	0.99	0.17	29,29,29,29	0
56	MG	1A	3935	1/1	0.99	0.04	10,10,10,10	0
56	MG	1W	203	1/1	0.99	0.19	31,31,31,31	0
56	MG	1a	1796	1/1	0.99	0.04	53,53,53,53	0
56	MG	1A	3810	1/1	0.99	0.03	41,41,41,41	0
56	MG	1a	1798	1/1	0.99	0.04	52,52,52,52	0
56	MG	1A	3811	1/1	0.99	0.03	22,22,22,22	0
56	MG	1A	3938	1/1	0.99	0.11	36,36,36,36	0
56	MG	1A	3119	1/1	0.99	0.08	32,32,32,32	0
56	MG	1A	3940	1/1	0.99	0.07	30,30,30,30	0
56	MG	1A	3609	1/1	0.99	0.07	24,24,24,24	0
56	MG	2A	3710	1/1	0.99	0.02	33,33,33,33	0
56	MG	1a	1804	1/1	0.99	0.03	57,57,57,57	0
56	MG	1a	1805	1/1	0.99	0.03	68,68,68,68	0
56	MG	1A	3240	1/1	0.99	0.12	34,34,34,34	0
56	MG	2A	3821	1/1	0.99	0.06	39,39,39,39	0
56	MG	2A	3822	1/1	0.99	0.08	40,40,40,40	0
56	MG	1A	3045	1/1	0.99	0.07	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	3824	1/1	0.99	0.04	57,57,57,57	0
56	MG	1A	3174	1/1	0.99	0.11	33,33,33,33	0
56	MG	1A	3945	1/1	0.99	0.04	44,44,44,44	0
56	MG	1A	3069	1/1	0.99	0.10	29,29,29,29	0
56	MG	1A	3070	1/1	0.99	0.06	12,12,12,12	0
56	MG	1A	3759	1/1	0.99	0.05	24,24,24,24	0
56	MG	1A	3384	1/1	0.99	0.12	27,27,27,27	0
56	MG	2A	3617	1/1	0.99	0.08	53,53,53,53	0
56	MG	1A	4019	1/1	0.99	0.05	36,36,36,36	0
56	MG	1A	3107	1/1	0.99	0.08	28,28,28,28	0
56	MG	2A	3518	1/1	0.99	0.08	46,46,46,46	0
56	MG	1A	4097	1/1	0.99	0.03	36,36,36,36	0
56	MG	1A	4021	1/1	0.99	0.04	47,47,47,47	0
56	MG	2A	3727	1/1	0.99	0.06	43,43,43,43	0
56	MG	1F	309	1/1	0.99	0.10	27,27,27,27	0
56	MG	1A	3580	1/1	0.99	0.15	38,38,38,38	0
56	MG	1A	3178	1/1	0.99	0.12	30,30,30,30	0
56	MG	2A	3626	1/1	0.99	0.04	43,43,43,43	0
56	MG	1A	3140	1/1	0.99	0.12	32,32,32,32	0
56	MG	1A	3583	1/1	0.99	0.15	34,34,34,34	0
56	MG	1A	3037	1/1	0.99	0.06	19,19,19,19	0
56	MG	2A	3735	1/1	0.99	0.08	49,49,49,49	0
56	MG	1A	3142	1/1	0.99	0.06	44,44,44,44	0
56	MG	1A	3828	1/1	0.99	0.04	31,31,31,31	0
56	MG	1A	3161	1/1	0.99	0.17	27,27,27,27	0
56	MG	2a	1709	1/1	0.99	0.07	70,70,70,70	0
56	MG	28	103	1/1	0.99	0.04	56,56,56,56	0
56	MG	1A	3624	1/1	0.99	0.05	30,30,30,30	0
56	MG	1A	3072	1/1	0.99	0.16	31,31,31,31	0
56	MG	1A	3110	1/1	0.99	0.20	27,27,27,27	0
56	MG	1A	4033	1/1	0.99	0.02	21,21,21,21	0
56	MG	1A	4034	1/1	0.99	0.05	48,48,48,48	0
56	MG	1A	3773	1/1	0.99	0.04	34,34,34,34	0
56	MG	1A	3073	1/1	0.99	0.05	14,14,14,14	0
56	MG	1a	1743	1/1	0.99	0.09	43,43,43,43	0
56	MG	1A	3057	1/1	0.99	0.04	25,25,25,25	0
56	MG	1A	3670	1/1	0.99	0.06	37,37,37,37	0
56	MG	1A	3898	1/1	0.99	0.04	23,23,23,23	0
56	MG	1A	3280	1/1	0.99	0.06	24,24,24,24	0
56	MG	1A	3672	1/1	0.99	0.04	27,27,27,27	0
56	MG	1A	3230	1/1	0.99	0.20	29,29,29,29	0
56	MG	1A	3674	1/1	0.99	0.08	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3282	1/1	0.99	0.27	41,41,41,41	0
56	MG	1A	3727	1/1	0.99	0.06	21,21,21,21	0
56	MG	1A	3098	1/1	0.99	0.12	18,18,18,18	0
56	MG	1A	3633	1/1	0.99	0.06	23,23,23,23	0
56	MG	1A	3678	1/1	0.99	0.06	27,27,27,27	0
56	MG	1A	3524	1/1	0.99	0.16	28,28,28,28	0
56	MG	1a	1757	1/1	0.99	0.06	58,58,58,58	0
56	MG	2A	3552	1/1	0.99	0.08	36,36,36,36	0
56	MG	2A	3553	1/1	0.99	0.09	43,43,43,43	0
56	MG	1A	3284	1/1	0.99	0.20	31,31,31,31	0
56	MG	1A	3682	1/1	0.99	0.03	22,22,22,22	0
56	MG	2A	3556	1/1	0.99	0.06	47,47,47,47	0
56	MG	1A	4052	1/1	0.99	0.05	23,23,23,23	0
56	MG	1A	3683	1/1	0.99	0.02	27,27,27,27	0
56	MG	1A	3636	1/1	0.99	0.04	28,28,28,28	0
56	MG	1A	3913	1/1	0.99	0.05	30,30,30,30	0
56	MG	1A	3791	1/1	0.99	0.03	36,36,36,36	0
56	MG	1A	3792	1/1	0.99	0.03	38,38,38,38	0
56	MG	1A	3086	1/1	0.99	0.20	29,29,29,29	0
56	MG	2A	3467	1/1	0.99	0.11	24,24,24,24	0
56	MG	2A	3565	1/1	0.99	0.05	42,42,42,42	0
56	MG	2A	3566	1/1	0.99	0.07	46,46,46,46	0
56	MG	1A	3794	1/1	0.99	0.07	22,22,22,22	0
56	MG	1A	3064	1/1	0.99	0.09	33,33,33,33	0
56	MG	1A	3856	1/1	0.99	0.07	18,18,18,18	0
56	MG	2A	3009	1/1	0.99	0.04	46,46,46,46	0
56	MG	1A	3402	1/1	0.99	0.04	29,29,29,29	0
56	MG	1A	3688	1/1	0.99	0.07	20,20,20,20	0
56	MG	1A	3211	1/1	0.99	0.04	33,33,33,33	0
56	MG	1A	3991	1/1	0.99	0.10	37,37,37,37	0
56	MG	2a	1756	1/1	0.99	0.05	71,71,71,71	0
56	MG	1A	3690	1/1	0.99	0.06	33,33,33,33	0
56	MG	1U	201	1/1	0.99	0.04	28,28,28,28	0
56	MG	1U	202	1/1	0.99	0.13	38,38,38,38	0
56	MG	1A	3993	1/1	0.99	0.07	23,23,23,23	0
56	MG	1A	3641	1/1	0.99	0.07	24,24,24,24	0
56	MG	2a	1762	1/1	0.99	0.03	58,58,58,58	0
56	MG	1a	1779	1/1	0.99	0.07	65,65,65,65	0
56	MG	1A	3564	1/1	0.99	0.15	31,31,31,31	0
56	MG	1A	4070	1/1	0.99	0.08	29,29,29,29	0
56	MG	1A	3693	1/1	0.99	0.09	25,25,25,25	0
56	MG	1U	208	1/1	0.99	0.17	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3794	1/1	0.99	0.11	51,51,51,51	0
56	MG	1A	3008	1/1	0.99	0.11	27,27,27,27	0
56	MG	1A	3028	1/1	0.99	0.22	27,27,27,27	0
59	ZN	1Y	204	1/1	0.99	0.02	65,65,65,65	0
56	MG	2a	1771	1/1	0.99	0.03	62,62,62,62	0
59	ZN	16	102	1/1	0.99	0.10	57,57,57,57	0
56	MG	1A	3014	1/1	0.99	0.10	29,29,29,29	0
56	MG	1A	4075	1/1	0.99	0.04	34,34,34,34	0
56	MG	1V	203	1/1	0.99	0.09	27,27,27,27	0
59	ZN	25	106	1/1	0.99	0.06	63,63,63,63	0
59	ZN	26	102	1/1	0.99	0.04	65,65,65,65	0
56	MG	1A	3347	1/1	0.99	0.17	30,30,30,30	0
56	MG	1a	1790	1/1	0.99	0.06	55,55,55,55	0
56	MG	1A	3749	1/1	0.99	0.03	43,43,43,43	0
56	MG	2A	3593	1/1	0.99	0.05	38,38,38,38	0
56	MG	1A	3563	1/1	1.00	0.12	26,26,26,26	0
56	MG	1A	3681	1/1	1.00	0.05	25,25,25,25	0
59	ZN	15	107	1/1	1.00	0.03	41,41,41,41	0
56	MG	1A	3766	1/1	1.00	0.06	45,45,45,45	0
59	ZN	19	102	1/1	1.00	0.05	43,43,43,43	0
56	MG	1A	3919	1/1	1.00	0.05	24,24,24,24	0
56	MG	1A	3031	1/1	1.00	0.09	31,31,31,31	0

6.5 Other polymers (i)

There are no such residues in this entry.