



wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 3, 2026 – 11:34 AM EDT

PDB ID : 6UCQ / pdb_00006ucq
Title : Crystal structure of the Thermus thermophilus 70S ribosome recycling complex
Authors : Zhou, D.; Tanzawa, T.; Gagnon, M.G.; Lin, J.
Deposited on : 2019-09-17
Resolution : 3.50 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 ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.015 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

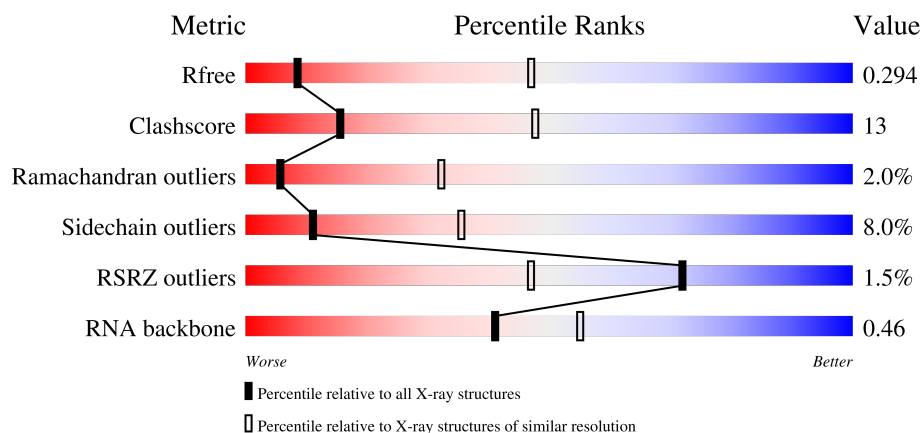
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 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.



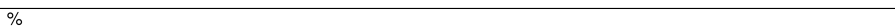
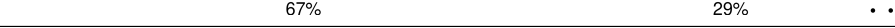
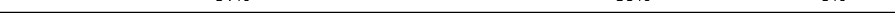
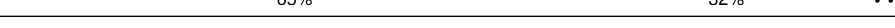
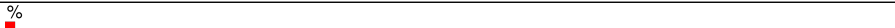
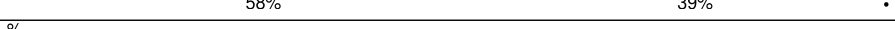
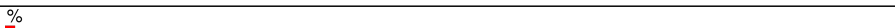
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1085 (3.54-3.46)
Clashscore	190562	1140 (3.54-3.46)
Ramachandran outliers	187476	1113 (3.54-3.46)
Sidechain outliers	187428	1114 (3.54-3.46)
RSRZ outliers	180081	1084 (3.54-3.46)
RNA backbone	3983	1010 (3.98-3.02)

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

Mol	Chain	Length	Quality of chain
1	1A	2915	
1	2A	2915	
2	1B	121	
2	2B	121	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
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	1N	140	
8	2N	140	
9	1O	122	
9	2O	122	
10	1P	150	
10	2P	150	
11	1Q	141	
11	2Q	141	
12	1R	118	
12	2R	118	
13	1S	112	
13	2S	112	
14	1T	146	
14	2T	146	
15	1U	118	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
15	2U	118	
16	1V	101	
16	2V	101	
17	1W	113	
17	2W	113	
18	1X	96	
18	2X	96	
19	1Y	110	
19	2Y	110	
20	1Z	206	
20	2Z	206	
21	10	85	
21	20	85	
22	11	98	
22	21	98	
23	12	72	
23	22	72	
24	13	60	
24	23	60	
25	14	71	
25	24	71	
26	15	60	
26	25	60	
27	16	54	
27	26	54	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
28	17	49	
28	27	49	
29	18	65	
29	28	65	
30	19	37	
30	29	37	
31	1a	1521	
31	2a	1521	
32	1b	256	
32	2b	256	
33	1c	239	
33	2c	239	
34	1d	209	
34	2d	209	
35	1e	162	
35	2e	162	
36	1f	101	
36	2f	101	
37	1g	156	
37	2g	156	
38	1h	138	
38	2h	138	
39	1i	128	
39	2i	128	
40	1j	105	

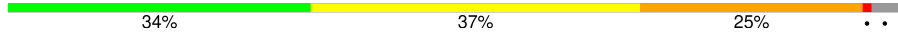
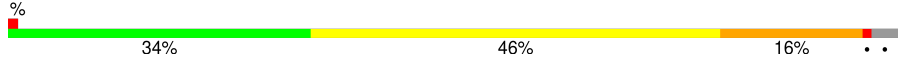
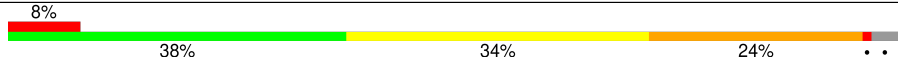
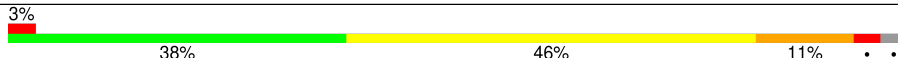
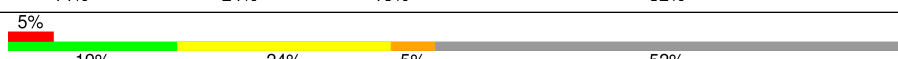
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
40	2j	105	
41	1k	129	
41	2k	129	
42	1l	132	
42	2l	132	
43	1m	126	
43	2m	126	
44	1n	61	
44	2n	61	
45	1o	89	
45	2o	89	
46	1p	88	
46	2p	88	
47	1q	105	
47	2q	105	
48	1r	88	
48	2r	88	
49	1s	93	
49	2s	93	
50	1t	106	
50	2t	106	
51	1u	27	
51	2u	27	
52	1v	758	
52	2v	758	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
53	1w	185	
53	2w	185	
54	1x	76	
54	1y	76	
54	2x	76	
54	2y	76	
55	1z	21	
55	2z	21	

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	4036	-	-	-	X
56	MG	1A	4180	-	-	-	X
56	MG	1A	4211	-	-	-	X
56	MG	1A	4348	-	-	-	X
56	MG	1A	4394	-	-	-	X
56	MG	1A	4682	-	-	-	X
56	MG	1B	216	-	-	-	X
56	MG	1a	1625	-	-	-	X
56	MG	1a	1634	-	-	-	X
56	MG	1a	1644	-	-	-	X
56	MG	1a	1647	-	-	-	X
56	MG	1a	1649	-	-	-	X
56	MG	1a	1662	-	-	-	X
56	MG	1a	1686	-	-	-	X
56	MG	1a	1752	-	-	-	X
56	MG	1a	1757	-	-	-	X
56	MG	1a	1792	-	-	-	X
56	MG	1a	1831	-	-	-	X
56	MG	1a	1863	-	-	-	X
56	MG	1v	701	-	-	-	X
56	MG	1y	102	-	-	-	X
56	MG	28	101	-	-	-	X
56	MG	2A	3071	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	2A	3095	-	-	-	X
56	MG	2A	3096	-	-	-	X
56	MG	2A	3097	-	-	-	X
56	MG	2A	3162	-	-	-	X
56	MG	2A	3185	-	-	-	X
56	MG	2A	3198	-	-	-	X
56	MG	2A	3210	-	-	-	X
56	MG	2A	3232	-	-	-	X
56	MG	2A	3235	-	-	-	X
56	MG	2A	3236	-	-	-	X
56	MG	2A	3279	-	-	-	X
56	MG	2A	3287	-	-	-	X
56	MG	2A	3327	-	-	-	X
56	MG	2A	3329	-	-	-	X
56	MG	2A	3346	-	-	-	X
56	MG	2A	3355	-	-	-	X
56	MG	2A	3363	-	-	-	X
56	MG	2A	3365	-	-	-	X
56	MG	2A	3366	-	-	-	X
56	MG	2A	3424	-	-	-	X
56	MG	2A	3610	-	-	-	X
56	MG	2B	221	-	-	-	X
56	MG	2B	227	-	-	-	X
56	MG	2Q	202	-	-	-	X
56	MG	2a	1607	-	-	-	X
56	MG	2a	1608	-	-	-	X
56	MG	2a	1609	-	-	-	X
56	MG	2a	1615	-	-	-	X
56	MG	2a	1650	-	-	-	X
56	MG	2a	1651	-	-	-	X
56	MG	2a	1663	-	-	-	X
56	MG	2a	1664	-	-	-	X
56	MG	2a	1674	-	-	-	X
56	MG	2a	1734	-	-	-	X
56	MG	2a	1746	-	-	-	X
56	MG	2g	202	-	-	-	X
56	MG	2l	201	-	-	-	X
56	MG	2u	103	-	-	-	X
58	SF4	1d	304	-	-	X	-

2 Entry composition

There are 60 unique types of molecules in this entry. The entry contains 305259 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
			1451	930	261	256	4			
6	2G	181	Total	C	N	O	S	0	0	0
			1453	930	263	256	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 L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	1N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			
8	2N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			

- Molecule 9 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	1O	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			
9	2O	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 10 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1P	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	2P	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			

- Molecule 11 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	1Q	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
11	2Q	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 12 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	1R	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
12	2R	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			

- Molecule 13 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	1S	110	Total	C	N	O	S	0	0	0
			873	550	174	149				
13	2S	110	Total	C	N	O	S	0	0	0
			870	549	173	148				

- Molecule 14 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	1T	131	Total	C	N	O	S	0	0	0
			1091	680	225	185	1			
14	2T	131	Total	C	N	O	S	0	0	0
			1083	675	224	183	1			

- Molecule 15 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	1U	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			
15	2U	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			

- Molecule 16 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	1V	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			
16	2V	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			

- Molecule 17 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	1W	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			
17	2W	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			

- Molecule 18 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	1X	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			
18	2X	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			

- Molecule 19 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	1Y	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			
19	2Y	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			

- Molecule 20 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	1Z	204	Total	C	N	O	S	0	0	0
			1582	1007	278	295	2			
20	2Z	204	Total	C	N	O	S	0	0	0
			1582	1007	278	295	2			

- Molecule 21 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	10	75	Total	C	N	O	S	0	0	0
			598	370	127	100	1			
21	20	75	Total	C	N	O	S	0	0	0
			598	370	127	100	1			

- Molecule 22 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	11	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			
22	21	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			

- Molecule 23 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	12	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			
23	22	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			

- Molecule 24 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
24	13	59	Total	C	N	O	0	0	0
			469	298	90	81			
24	23	59	Total	C	N	O	0	0	0
			464	296	90	78			

- Molecule 25 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	14	69	Total	C	N	O	S	0	0	0
			552	349	99	99	5			
25	24	69	Total	C	N	O	S	0	0	0
			532	339	97	91	5			

- Molecule 26 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	15	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	25	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			

- Molecule 27 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	16	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			
27	26	53	Total	C	N	O	S	0	0	0
			449	279	91	75	4			

- Molecule 28 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	17	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
28	27	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

- Molecule 29 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	18	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			
29	28	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

- Molecule 30 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	19	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
30	29	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 31 is a RNA chain called 16S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	1a	1499	Total	C	N	O	P	0	0	0
			32224	14348	5970	10407	1499			
31	2a	1503	Total	C	N	O	P	0	0	0
			32327	14396	5990	10438	1503			

- Molecule 32 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	1b	231	Total	C	N	O	S	0	0	0
			1846	1179	331	331	5			
32	2b	231	Total	C	N	O	S	0	0	0
			1825	1167	326	327	5			

- Molecule 33 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	1c	206	Total	C	N	O	S	0	0	0
			1548	973	301	273	1			
33	2c	206	Total	C	N	O	S	0	0	0
			1542	968	300	273	1			

- Molecule 34 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	1d	208	Total	C	N	O	S	0	0	0
			1655	1038	326	284	7			
34	2d	208	Total	C	N	O	S	0	0	0
			1674	1050	333	284	7			

- Molecule 35 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	1e	148	Total	C	N	O	S	0	0	0
			1129	714	213	198	4			
35	2e	148	Total	C	N	O	S	0	0	0
			1133	716	214	199	4			

- Molecule 36 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1f	100	Total	C	N	O	S	0	0	0
			810	514	144	149	3			
36	2f	100	Total	C	N	O	S	0	0	0
			816	516	146	151	3			

- Molecule 37 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	1g	155	Total	C	N	O	S	0	0	0
			1231	766	243	216	6			
37	2g	155	Total	C	N	O	S	0	0	0
			1235	769	244	216	6			

- Molecule 38 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	1h	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			
38	2h	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			

- Molecule 39 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	1i	127	Total	C	N	O		0	0	0
			983	623	193	167				
39	2i	127	Total	C	N	O		0	0	0
			978	619	190	169				

- Molecule 40 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	1j	97	Total	C	N	O		0	0	0
			709	440	138	131				
40	2j	96	Total	C	N	O		0	0	0
			714	445	138	131				

- Molecule 41 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	1k	114	Total	C	N	O	S	0	0	0
			829	516	155	155	3			
41	2k	114	Total	C	N	O	S	0	0	0
			833	519	156	155	3			

- Molecule 42 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	1l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	2l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			

- Molecule 43 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	1m	118	Total	C	N	O	S	0	0	0
			919	566	190	161	2			
43	2m	122	Total	C	N	O	S	0	0	0
			950	586	197	165	2			

- Molecule 44 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	1n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
44	2n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 45 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	1o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			
45	2o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			

- Molecule 46 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	1p	82	Total	C	N	O	S	0	0	0
			681	433	134	113	1			
46	2p	82	Total	C	N	O	S	0	0	0
			677	430	133	113	1			

- Molecule 47 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	1q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			
47	2q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 48 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	1r	68	Total	C	N	O	0	0	0
			555	355	108	92			
48	2r	68	Total	C	N	O	0	0	0
			555	355	108	92			

- Molecule 49 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	1s	83	Total	C	N	O	S	0	0	0
			652	417	120	113	2			
49	2s	83	Total	C	N	O	S	0	0	0
			646	412	119	113	2			

- Molecule 50 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	1t	96	Total	C	N	O	S	0	0	0
			728	446	156	124	2			
50	2t	96	Total	C	N	O	S	0	0	0
			727	446	155	124	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	1u	23	Total	C	N	O	0	0	0
			199	122	48	29			
51	2u	23	Total	C	N	O	0	0	0
			199	122	48	29			

- Molecule 52 is a protein called 50S ribosomal protein L9,Elongation factor G.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	1v	728	Total	C	N	O	S	0	0	0
			5664	3599	974	1072	19			
52	2v	728	Total	C	N	O	S	0	0	0
			5664	3599	974	1072	19			

- Molecule 53 is a protein called Ribosome-recycling factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1w	185	Total	C	N	O	S	0	0	0
			1478	924	270	282	2			
53	2w	185	Total	C	N	O	S	0	0	0
			1478	924	270	282	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	1x	74	Total	C	N	O	P	S	0	0
			1581	707	285	515	73	1		
54	1y	74	Total	C	N	O	P	S	0	0
			1581	707	285	515	73	1		
54	2x	74	Total	C	N	O	P	S	0	0
			1581	707	285	515	73	1		
54	2y	74	Total	C	N	O	P	S	0	0
			1581	707	285	515	73	1		

- Molecule 55 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	1z	10	Total	C	N	O	P	0	0	0
			212	96	39	67	10			
55	2z	10	Total	C	N	O	P	0	0	0
			212	96	39	67	10			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1063	Total	Mg	0	0
			1063	1063		
56	1B	26	Total	Mg	0	0
			26	26		
56	1D	8	Total	Mg	0	0
			8	8		
56	1E	8	Total	Mg	0	0
			8	8		
56	1F	1	Total	Mg	0	0
			1	1		
56	1H	2	Total	Mg	0	0
			2	2		
56	1N	1	Total	Mg	0	0
			1	1		
56	1O	5	Total	Mg	0	0
			5	5		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1P	5	Total 5	Mg 5	0	0
56	1Q	3	Total 3	Mg 3	0	0
56	1R	3	Total 3	Mg 3	0	0
56	1S	2	Total 2	Mg 2	0	0
56	1T	5	Total 5	Mg 5	0	0
56	1U	3	Total 3	Mg 3	0	0
56	1V	1	Total 1	Mg 1	0	0
56	1W	2	Total 2	Mg 2	0	0
56	1Y	1	Total 1	Mg 1	0	0
56	1Z	5	Total 5	Mg 5	0	0
56	10	4	Total 4	Mg 4	0	0
56	11	1	Total 1	Mg 1	0	0
56	12	1	Total 1	Mg 1	0	0
56	13	1	Total 1	Mg 1	0	0
56	15	2	Total 2	Mg 2	0	0
56	16	1	Total 1	Mg 1	0	0
56	17	3	Total 3	Mg 3	0	0
56	18	3	Total 3	Mg 3	0	0
56	19	1	Total 1	Mg 1	0	0
56	1a	319	Total 319	Mg 319	0	0
56	1b	9	Total 9	Mg 9	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1d	4	Total 4	Mg 4	0	0
56	1e	2	Total 2	Mg 2	0	0
56	1g	2	Total 2	Mg 2	0	0
56	1i	1	Total 1	Mg 1	0	0
56	1l	1	Total 1	Mg 1	0	0
56	1m	2	Total 2	Mg 2	0	0
56	1n	2	Total 2	Mg 2	0	0
56	1o	1	Total 1	Mg 1	0	0
56	1p	1	Total 1	Mg 1	0	0
56	1q	1	Total 1	Mg 1	0	0
56	1s	3	Total 3	Mg 3	0	0
56	1t	1	Total 1	Mg 1	0	0
56	1u	1	Total 1	Mg 1	0	0
56	1v	3	Total 3	Mg 3	0	0
56	1x	2	Total 2	Mg 2	0	0
56	1y	6	Total 6	Mg 6	0	0
56	1z	1	Total 1	Mg 1	0	0
56	2A	852	Total 852	Mg 852	0	0
56	2B	32	Total 32	Mg 32	0	0
56	2D	6	Total 6	Mg 6	0	0
56	2E	5	Total 5	Mg 5	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	2F	4	Total 4	Mg 4	0	0
56	2N	2	Total 2	Mg 2	0	0
56	2O	1	Total 1	Mg 1	0	0
56	2P	3	Total 3	Mg 3	0	0
56	2Q	6	Total 6	Mg 6	0	0
56	2S	1	Total 1	Mg 1	0	0
56	2T	2	Total 2	Mg 2	0	0
56	2V	1	Total 1	Mg 1	0	0
56	2X	1	Total 1	Mg 1	0	0
56	2Y	2	Total 2	Mg 2	0	0
56	2Z	4	Total 4	Mg 4	0	0
56	20	6	Total 6	Mg 6	0	0
56	21	1	Total 1	Mg 1	0	0
56	23	3	Total 3	Mg 3	0	0
56	24	1	Total 1	Mg 1	0	0
56	25	1	Total 1	Mg 1	0	0
56	26	2	Total 2	Mg 2	0	0
56	27	3	Total 3	Mg 3	0	0
56	28	6	Total 6	Mg 6	0	0
56	29	2	Total 2	Mg 2	0	0
56	2a	321	Total 321	Mg 321	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	2b	3	Total 3	Mg 3	0	0
56	2c	1	Total 1	Mg 1	0	0
56	2d	3	Total 3	Mg 3	0	0
56	2e	2	Total 2	Mg 2	0	0
56	2f	4	Total 4	Mg 4	0	0
56	2g	6	Total 6	Mg 6	0	0
56	2h	5	Total 5	Mg 5	0	0
56	2i	4	Total 4	Mg 4	0	0
56	2k	2	Total 2	Mg 2	0	0
56	2l	6	Total 6	Mg 6	0	0
56	2m	3	Total 3	Mg 3	0	0
56	2o	1	Total 1	Mg 1	0	0
56	2p	3	Total 3	Mg 3	0	0
56	2q	4	Total 4	Mg 4	0	0
56	2r	2	Total 2	Mg 2	0	0
56	2s	3	Total 3	Mg 3	0	0
56	2t	1	Total 1	Mg 1	0	0
56	2u	3	Total 3	Mg 3	0	0
56	2v	3	Total 3	Mg 3	0	0
56	2w	2	Total 2	Mg 2	0	0
56	2x	8	Total 8	Mg 8	0	0

Continued on next page...

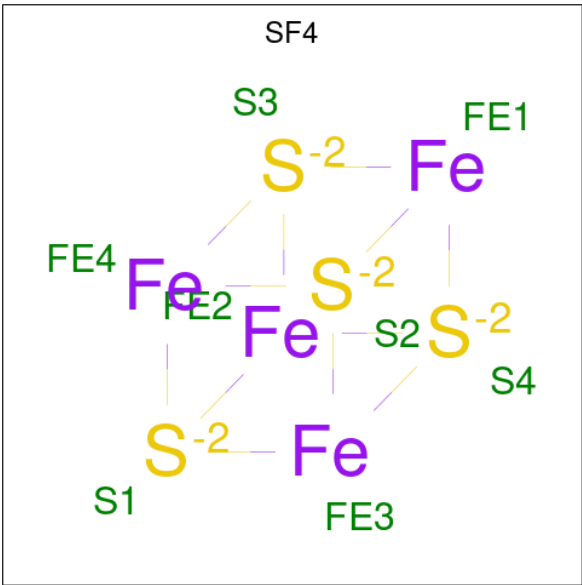
Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	2y	10	Total 10	Mg 10	0	0
56	2z	3	Total 3	Mg 3	0	0

- Molecule 57 is ZINC ION (CCD ID: ZN) (formula: Zn).

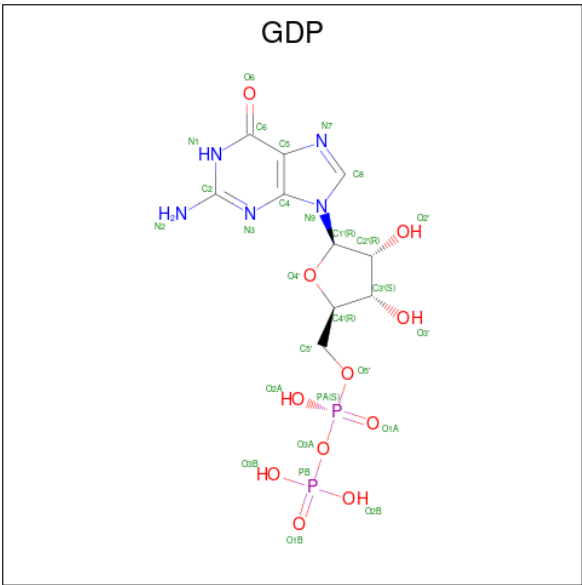
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1Y	1	Total 1	Zn 1	0	0
57	14	1	Total 1	Zn 1	0	0
57	15	1	Total 1	Zn 1	0	0
57	16	1	Total 1	Zn 1	0	0
57	19	1	Total 1	Zn 1	0	0
57	1n	1	Total 1	Zn 1	0	0
57	2Y	1	Total 1	Zn 1	0	0
57	24	1	Total 1	Zn 1	0	0
57	25	1	Total 1	Zn 1	0	0
57	26	1	Total 1	Zn 1	0	0
57	29	1	Total 1	Zn 1	0	0
57	2n	1	Total 1	Zn 1	0	0

- Molecule 58 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe₄S₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
58	1d	1	Total	Fe	S	0	0
			8	4	4		
58	2d	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 59 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂).

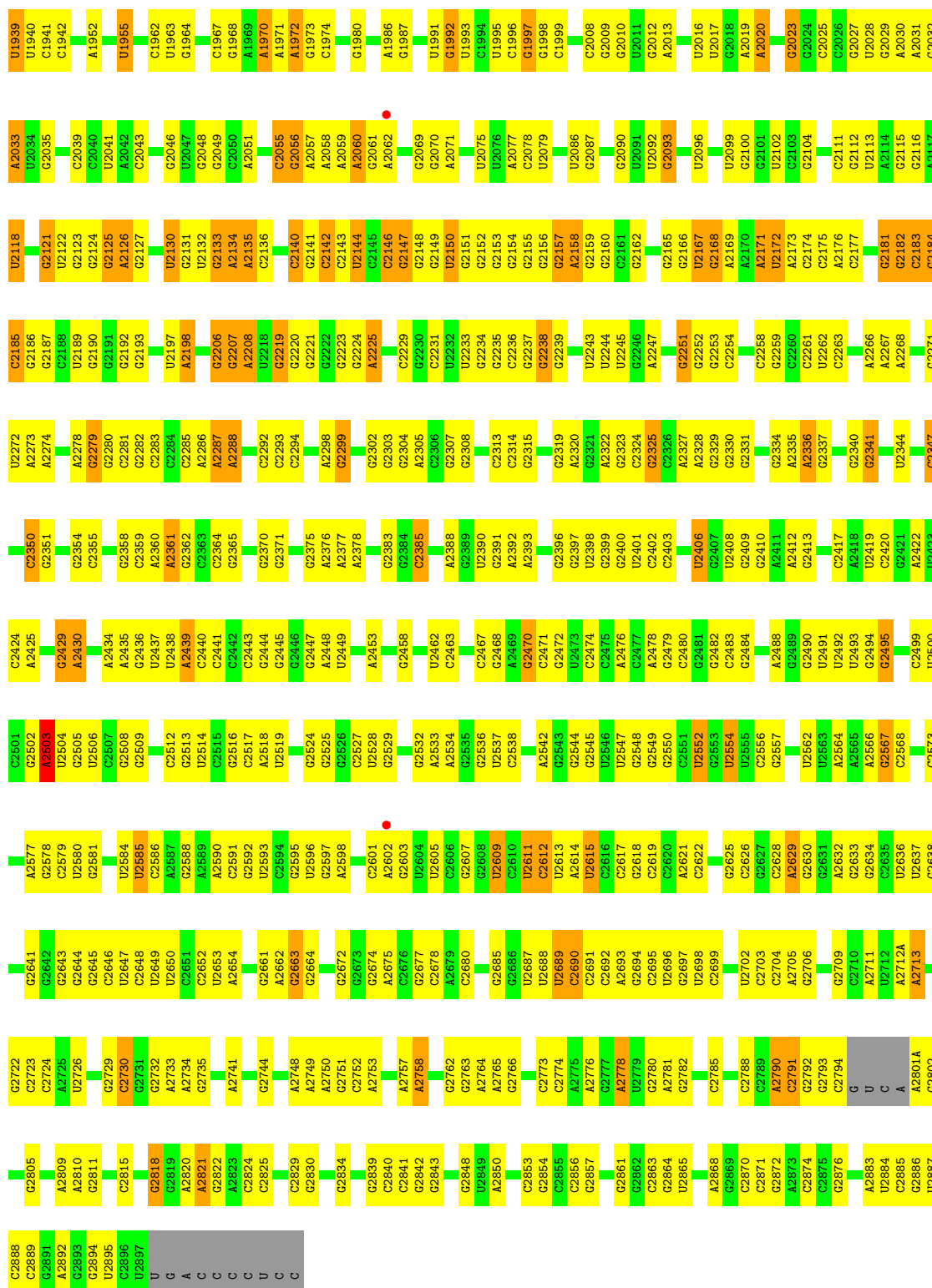


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
59	1v	1	Total	C	N	O	P	0	0
			28	10	5	11	2		
59	2v	1	Total	C	N	O	P	0	0
			28	10	5	11	2		

- Molecule 60 is POTASSIUM ION (CCD ID: K) (formula: K).

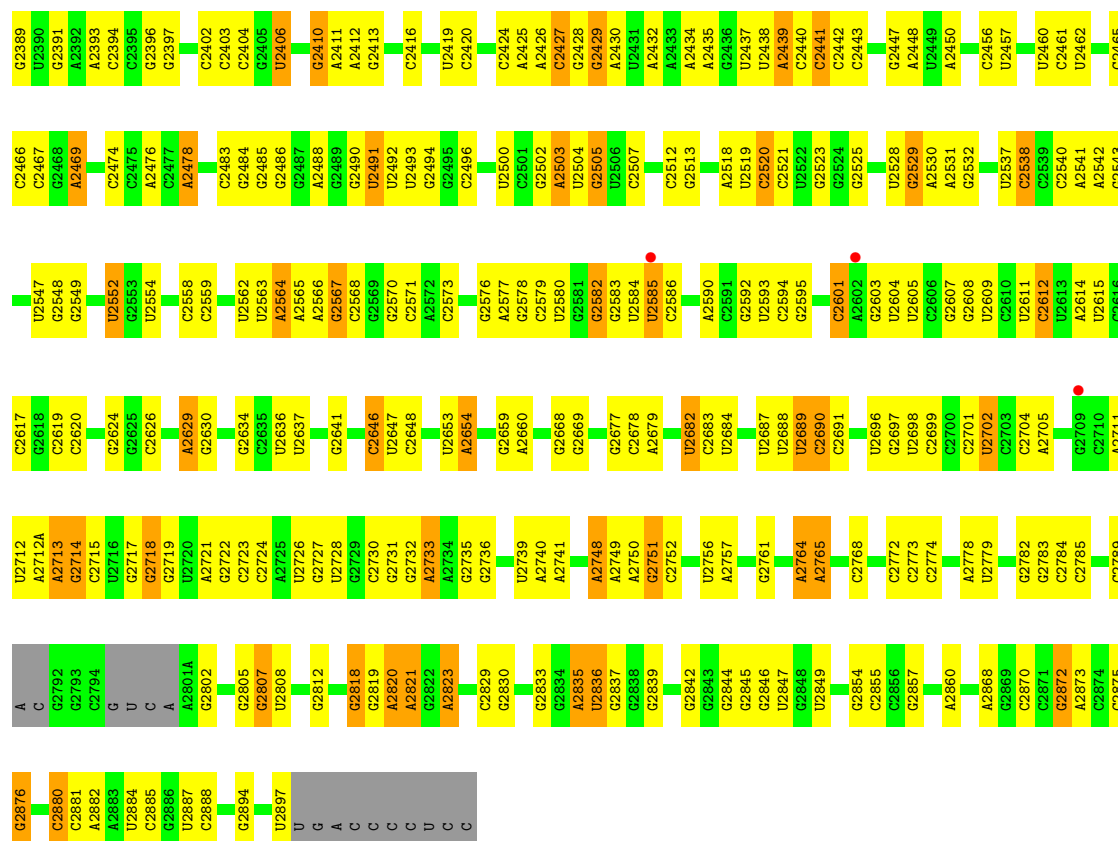
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	1	Total	K	0	0
			1	1		





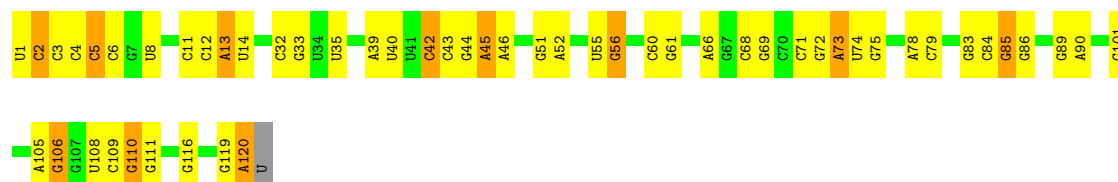
C	G	G	A1032	A953	G874	U807	A718	A652B	U576	A502	C420	A322	A270	G188	G83	G
G	U	U	U1033	G956	G875	G808	C719	G652C	G577	A503	U421	G323	A270	G188	A84	U
A	A	A	G1034	G957	G880	G809	C720	G652D	A578	A504	A422	G324	U271E	A191	A84	C
U	U	U	U1035	G958	G881	G810	A722	G652E	G579	A505	A428	G326	C271F	G192	G89	A
A	A	A	G1036	G959	G882	G811	G726	G	C580	C509	A429	G327	C271G	U193	A92	U9
G	C	G	G1037	G960	G883	U813	A727	C	G582	C510	G430	U328	G271H	A195	G93	G10
C	U	U	G1038	G961	G884	G814	C730	C	G583	U511	C435	G329	G271I	A196	G95	G11
U	U	U	G1042	C964	C885	G815	G736	G	A586	G512	C436	A330	U271L	C198	G98	U12
A	C	A	C1043	G972	C886	C816	G737	G	C587	A513	C437	G333	U271M	A199	G98	A13
C	A	A	G	A973	C887	C817	C738	C	C588	A514	G438	G334	U271N	U200	U99	A14
U	U	U	G	G974	C888	C818	G739	G	C589	C515	G440	C335	C271O	C201	G100	G15
G	G	G	C	G975A	C889	A819	G744	G	A590	C517	U441	C336	G271P	U202	G102	G16
U	U	U	A	A980	C890	U822	G752	C	U597	G520	G442	U339	G271R	C203	A103	G17
A	G	A	G	U823	C891	G738	C753	G	G521	G521	A443	A340	G271S	A204	U104	G18
C	C	C	C	G823	C892	G739	A764	G	G598	G598	C444	A340	G271T	G205	C105	C19
C	C	C	C	C824	C893	G744	G763	G	G599	G599	C445	A346	G271V	C209	G17	G23
G	G	G	A	U825	C894	A825	A765	C	G600	C527	G446	A347	G271W	C210	A118	G24
A	A	A	G	U826	C895	A826	A766	C	G601	A528	A447	A348	G271X	C211	A119	U25
C	C	C	C	U827	C896	G652T	C753	G	C602	A529	U448	G349	U271Y	C212	U120	U26
C	C	C	C	A828	C897	G652U	C754	G	A603	G530	U449	G350	G271Z	G213	G26	G27
A	A	A	C	A829	C898	A655	C755	G	G604	C531	G450	G351	G272	A214	G27	A28
C	C	C	C	G830	C899	A656	C756	G	C505	A532	G451	G352	U272A	G215	A126	U29
G	G	G	G	G831	C900	U657	G760	G	U606	G533	C451	U362	G272B	G216	A127	G30
A	A	A	A	C832	C901	C658	G761	G	U607	U534	A454	G363	G272C	A216	A127	G31
G	G	G	G	A835	C902	C659	G762	G	A608	C535	A455	G364	G272D	G217	C128	C31
G	G	G	G	U836	C903	G662	A767	G	A609	A536	C456	A363A	U272I	A222	G132	C34
U	U	U	U	U837	C904	G663	A768	G	G610	C537	A457	G363B	C272J	A223	C133	G35
U	U	U	U	C840	C905	U667	G769	G	G611	C538	A458	G363C	U272K	G224	G36	G36
C	C	C	C	A841	C906	G668	G770	G	G612	G539	U459	G363D	A276	A225	C37	A38
G	G	G	C	G842	C907	G669	G771	G	G613	G540	G463	G372	C277	A229	G139	C39
C	C	C	C	G843	C908	C671	G772	G	G614	A	U464	C375	A278	A229	G140	A45
U	U	U	U	C844	C909	C672	G773	G	G615	G541	A466	C376	C287	A233	A141	C47
U	U	U	U	A845	C910	C673	G774	G	G616	G542	G469	U380	C288	A233	A142	C48
U	U	U	U	G846	C911	C674	G775	G	G617	G543	G473	G381	A289	C236	C143A	A49
A	A	A	A	U847	C912	C675	G776	G	G618	C	G474	G382	A294	C237	C144	U50
G	G	G	G	G848	C913	C676	G777	G	G619	A	G475	G383	G295	C238	G145	G51
A	A	A	A	A849	C914	C677	G778	G	G620	G544	A478	G386	C296	A241	A52	A53
C	C	C	C	C850	C915	C678	G779	G	G621	G545	A479	G387	C297	G242	G152	G54
U	U	U	U	G851	C916	C679	G780	G	A621	G546	A480	G392	C298	A241	C153	A53
C	C	C	C	C852	C917	C680	G781	G	G622	G547	A481	G393	A299	U243	G154	G54
A	A	A	A	G853	C918	C681	A782	G	G623	G548	G482	U403	A300	C246	C154A	C66
C	C	C	C	C854	C919	C682	A783	G	G624	G549	A483	C404	G301	G247	U157	U67
C	C	C	C	G855	C920	C683	A784	G	G625	G550	A484	U405	C302	G248	U	G68
C	C	C	C	C856	C921	C684	G785	G	G626	G551	C485	G406	G307	C249	G70	C69
U	U	U	U	C857	C922	C685	G786	G	G627	G552	G491	G407	G308	G250	A71	A71
U	U	U	U	U858	C923	C686	A787	G	G628	G553	A492	G408	G309	A251	U72	U72
C	C	C	C	C859	C924	C687	A788	G	G629	U554	A493	C409	A310	G252	A73	A73
A	A	A	A	C860	C925	C688	G789	G	G630	U555	G494	G410	A311	G253	A74	A74
U	U	U	U	C861	C926	C689	A790	G	G631	G556	G495	G411	G315	A257	G75	G75
U	U	U	U	U862	C927	C690	A791	G	G632	G557	G496	G412	G316	G258	G79	G79
U	U	U	U	C863	C928	C691	A792	G	G633	U558	G497	G413	G317	G259	G80	G80
C	C	C	C	C864	C929	C692	A793	G	G634	C564	G498	G414	G318	U185	G81	G81
C	C	C	C	G865	C930	C693	A794	G	C635	C565	G499	G415	G319	G186	G82	G82
U	U	U	U	C866	C931	C694	A795	G	G636	U566	G500	G416	G320	G187	G83	G83
U	U	U	U	G867	C932	C695	A796	G	G637	U567	G501	G417	G321	G188	G84	G84
U	U	U	U	C868	C933	C696	A797	G	G638	C566	G502	G418	G322	G189	G85	G85
U	U	U	U	G869	C934	C697	A798	G	G639	U568	G503	G419	G323	G190	G86	G86
U	U	U	U	C870	C935	C698	A799	G	G640	C567	G504	G420	G324	G191	G87	G87
U	U	U	U	G871	C936	C699	A800	G	C641	U569	G505	G421	G325	G192	G88	G88
U	U	U	U	C872	C937	C700	A801	G	G642	U570	G506	G422	G326	G193	G89	G89
U	U	U	U	G873	C938	C701	A802	G	G643	A571	G507	G423	G327	G194	G90	G90
U	U	U	U	C874	C939	C702	A803	G	G644	A572	G508	G424	G328	G195	G91	G91
U	U	U	U	G875	C940	G703	A804	G	G645	A573	G509	G425	G329	G196	G92	G92
U	U	U	U	C876	C941	C704	A805	G	G646	A574	G510	G426	G330	G197	G93	G93
U	U	U	U	G877	C942	C705	A806	G	G647	A575	G511	G427	G331	G198	G94	G94
U	U	U	U	C878	C943	C706	A807	G	G648	A576	G512	G428	G332	G199	G95	G95
U	U	U	U	G879	C944	C707	A808	G	G649	A577	G513	G429	G333	G200	G96	G96
U	U	U	U	C880	C945	C708	A809	G	G650	A578	G514	G430	G334	G201	G97	G97
U	U	U	U	G881	C946	C709	A810	G	G651	A579	G515	G431	G335	G202	G98	G98
U	U	U	U	C882	C947	C710	A811	G	G652	A580	G516	G432	G336	G203	G99	G99
U	U	U	U	G883	C948	C711	A812	G	G653	A581	G517	G433	G337	G204	G100	G100
U	U	U	U	C884	C949	C712	A813	G	G654	A582	G518	G434	G338	G205	G101	G101
U	U	U	U	G885	C950	C713	A814	G	G655	A583	G519	G435	G339	G206	G102	G102
U	U	U	U	C886	C951	C714	A815	G	G656	A584	G520	G436	G340	G207	G103	G103
U	U	U	U	G887	C952	C715	A816	G	G657	A585	G521	G437	G341	G208	G104	G104
U	U	U	U	C888	C953	C716	A817	G	G658	A586	G522	G438	G342	G209	G105	G105
U	U	U	U	G889	C954	C717	A818	G	G659	A587	G523	G439	G343	G210	G106	G106
U	U	U	U	C890	C955	C718	A819	G	G660	A588	G524	G440	G344	G211	G107	G107
U	U	U	U	G891	C956	C719	A820	G	G661	A589	G525	G441	G345	G212	G108	G108
U	U	U	U	C892	C957	C720	A821	G	G662	A590	G526	G442	G346	G213	G109	G109
U	U	U	U	G893	C958	C721	A822	G	G663	A591	G527	G443	G347	G214	G110	G110
U	U	U	U	C894	C959	C722	A823	G	G664	A592	G528	G444	G348	G215	G111	G111
U	U	U	U	G895	C960	C723	A824	G	G665	A593	G529	G445	G349	G216	G112	G112
U	U	U	U	C896	C961	C724	A825	G	G666	A594	G530	G446	G350	G217	G113	G113
U	U	U	U	G897	C962	C725	A826	G	G667	A595	G531	G447	G351	G218	G114	G114
U	U	U	U	C898	C963	C726	A827	G	G668	A596	G532	G448	G352	G219	G115	G115
U	U	U	U	G899	C964	C727	A828	G	G669	A597	G533	G449	G353	G220	G116	G116
U	U	U	U	C900	C965	C728	A829	G	G670	A598	G534	G450	G354	G221	G117	G117
U	U	U	U	G901	C966	C729	A830	G	G671	A599	G535	G451	G355	G222	G118	G118
U	U	U	U	C902	C967	C730	A831	G	G672	A600	G536	G452	G356	G223	G119	G119
U	U	U	U	G903	C968	C731	A832	G	G673	A601	G537	G453	G357	G224	G120	G120
U	U	U	U	C904	C969	C732	A833	G	G674	A602	G538	G454	G358	G225	G121	G121
U	U	U	U	G905	C970	C733	A834	G	G675	A603	G539	G455	G359	G226	G122	G122
U	U	U	U	C906	C971	C734	A835	G	G676	A604	G540	G456	G360	G227	G123	G123
U	U	U	U	G907	C972	C735	A836	G	G6							

G2312	G2313	G2314	G2315	G2316	G2317	G2318	G2319	A2320	G2321	G2325	G2326	A2327	G2330	G2331	G2334	A2335	A2336	G2337	G2340	G2341	G2342	G2343	G2344	A2345	A2346	G2347	G2350	G2351	A2352	G2355	G2364	A2366	G2367	G2368	A2369	G2370	G2371	G2372	G2373	G2374	G2375	A2376	A2377	A2378	G2381	A2382	G2383	G2384	G2385			
U2144	C2145	C2146	G2147	G2148	G2149	U2150	G2153	G2154	G2155	G2156	G2157	A2158	G2159	G2160	G2161	G2162	G2165	G2166	U2167	G2168	U2172	A2173	G2174	G2177	G2178	G2185	G2186	G2187	G2188	G2189	G2190	G2191	G2192	U2197	A2198	U2203	G2205	G2206	G2207	U2130	G2131	U2132	G2133	A2134	G2221	G2222	G2223	G2224	A2225	G2226	A2227	G2228
U2233	C2236	G2237	G2238	G2239	U2243	U2244	U2245	G2246	G2250	G2251	G2252	G2253	G2256	U2257	G2258	G2261	U2262	G2263	A2268	A2273	A2274	G2275	G2276	G2277	A2278	G2279	G2280	G2281	G2282	G2283	G2284	A2287	U2291	G2292	G2293	G2294	G2295	U2296	G2297	A2298	G2299	G2303	G2304	A2305	G2306	G2307	G2308	A2311				
G2070	A2071	G2072	G2078	U2079	G2080	G2081	A2082	G2083	U2086	G2087	G2088	A2089	G2090	G2093	U2096	G2099	A2100	G2101	U2101	G2102	A2103	A2104	G2108	U2109	G2110	G2111	G2112	G2115	G2116	A2119	G2120	G2121	U2122	G2125	A2126	G2127	G2128	G2206	G2207	U2130	G2131	U2132	G2133	A2134	G2221	G2222	G2223	G2224	A2225	G2226	A2227	G2228
U1991	G1992	U1993	C1996	U1997	G1998	C1999	G2000	A2001	G2002	G2009	G2010	U2011	G2012	A2013	A2014	G2018	A2019	A2020	C2021	U2022	G2023	G2024	C2025	G2026	G2027	A2030	A2031	G2032	A2033	U2034	G2037	G2038	C2039	U2041	C2042	C2043	C2044	G2048	G2049	G2052	G2053	A2054	C2055	G2056	A2060	A2061	A2062	U2068	G2069			
G1905	G1906	G1910	U1911	U1912	A1913	C1914	U1915	A1916	U1917	A1918	A1919	C1920	G1921	G1925	U1926	A1927	A1928	G1929	G1930	C1934	G1935	A1936	A1937	A1938	U1939	C1942	U1943	U1951	A1952	A1953	G1954	U1955	G1959	C1962	U1963	G1964	C1965	A1966	C1967	A1970	A1971	A1972	G1973	C1974	C1979	G1984	G1985	A1986				
G1800	G1801	U1805	A1809	G1813	G1814	A1815	G1816	G1817	U1818	A1821	G1822	G1823	G1824	A1825	G1826	G1827	G1828	G1829	C1830	G1831	C1832	U1833	U1834	G1835	C1836	C1837	G1838	G1839	A1847	A1848	A1853	A1854	G1860	G1861	G1862	A1877	G1878	C1879	C1880	C1881	C1882	G1883	A1889	G1899	C1902	G1903	G1904					
C1694	G1695	G1696	G1697	A1698	G1699	A1700	A1701	G1703	U1709	C1710	C1711	C1712	G1721	A1722	U1735	G1740	C1745A	G1746	G1751	C1752	G1753	G1754	A1755	G1756	U1757	G1758	A1763	G1764	G1769	A1773	C1774	U1775	G1776	U1777	U1778	U1779	C1781	A1784	A1789	C1790	A1791	U1794	C1795	U1796	C1797	U1798	G1799					
C1598	C1599	C1600	G1601	G1602	A1603	G1604	G1606	G1607	G1613	A1614	G1619	G1622	A1637	G1638	U1639	C1640	C1646	C1647	C1648	G1651	A1652	G1653	A1654	C1655	C1656	C1657	U1658	A1665	A1668	C1670	U1671	C1672	G1673	G1674	C1675	A1676	A1668	C1677	A1678	C1679	U1687	U1688	A1689	U1693								
A1507	A1508	C1509A	G1517	U1518	A1519	G1520	G1525	G1526	G1527	C1530	C1531	G1532	U	A	C1536	G1537	G1538	G1539	G1543	C1546	C1547	C1548	C1549	G1555	C1556	C1557	A1558	C1564	C1565	A1566	A1567	G1568	A1569	A1570	A1571	U1578	A1579	U1580	G1581	C1584	A1586	U1590	G1591	C1592	G1593	G1594	G1595					
G1422	G1423	G1424	G1425	G1426	A1427	G1428	G1429	C1430	U1431	A1434	G1435	G1436	C1437	G1441	G1442	A1445	A1449	G1450	G1455	C1458	G1459	A1460	G1461	G1464	G1465	G1466	G1467	G1470	A1471	A1472	G1473	G1479	G1482	G1484	U1485	A1486	G1487	G1488	U1489	A1490	C1491	A1493	A1494	A1495	A1496	U1497	G1500					
U1335	A1336	G1337	G1338	G1339	G1344	C1345	A1352	A1353	A1354	G1355	G1356	U1357	G1358	A1359	A1360	G1361	C1362	G1363	G1364	A1365	G1368	G1369	C1370	G1371	U1372	A1378	A1379	G1380	A1384	G1385	C1386	C1387	G1388	G1389	U1390	U1396	G1401	C1402	U1405	U1406	C1407	C1408	C1411	G1416	U1417	G1418	A1419	U1420	G1421			
G1250	C1251	A1252	G1253	U1254	U1255	G1256	C1257	G1258	G1259	G1260	C1261	U1263	G1264	A1265	G1266	U1267	A1268	A1269	C1270	G1271	A1272	U1273	G1277	A1278	U1288	C1289	C1290	C1291	U1292	C1297	G1298	G1299	U1300	A1301	A1308	G1309	U1312	U1313	C1314	A1317	C1318	A1321	U1326	C1327	U1329	U1329	C1330	A1331	G1332			
G1160	C1161	G1164	U1165	G1169	G1170	G1171	G	A	U	G	A	C1178	G1184	C1185	G1186	G1187	U1188	A1189	G1190	G1191	G1197	U1198	G1203	A1210	U1211	G1212	A1213	A1214	G1215	G1216	A1220	C1221	C1221A	G1223	G1224	G1225	A1226	G1229	G1235	G1236	G1238	G1239	U1240	A1241	A1247	G1248	U1249					



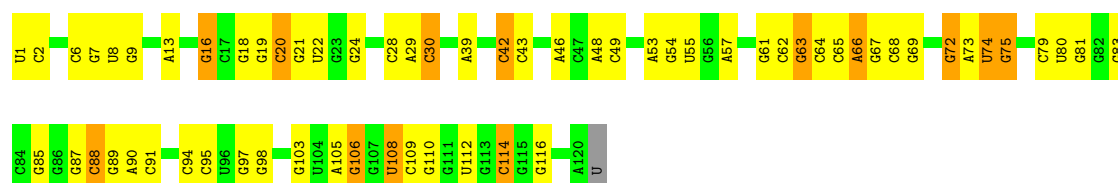
• Molecule 2: 5S Ribosomal RNA

Chain 1B: 55% 35% 9%



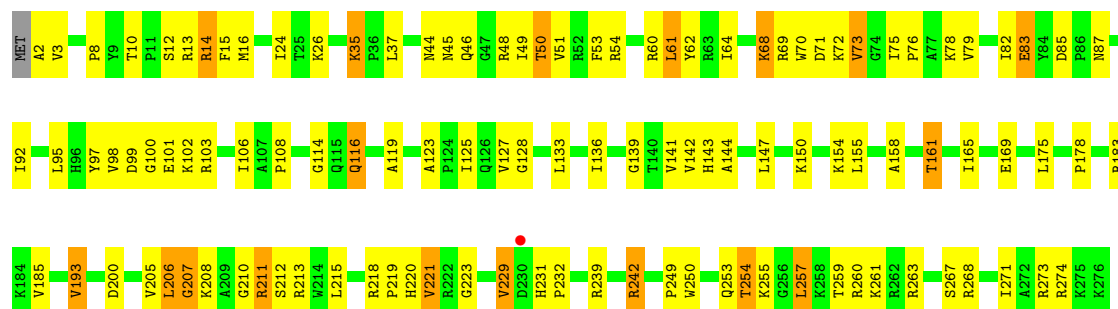
• Molecule 2: 5S Ribosomal RNA

Chain 2B: 47% 41% 11%

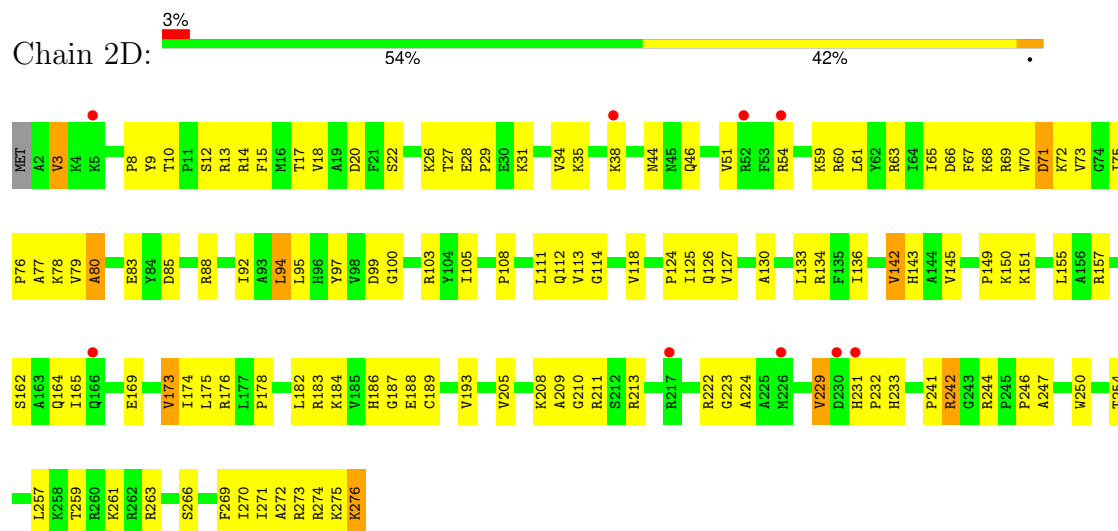


• Molecule 3: 50S ribosomal protein L2

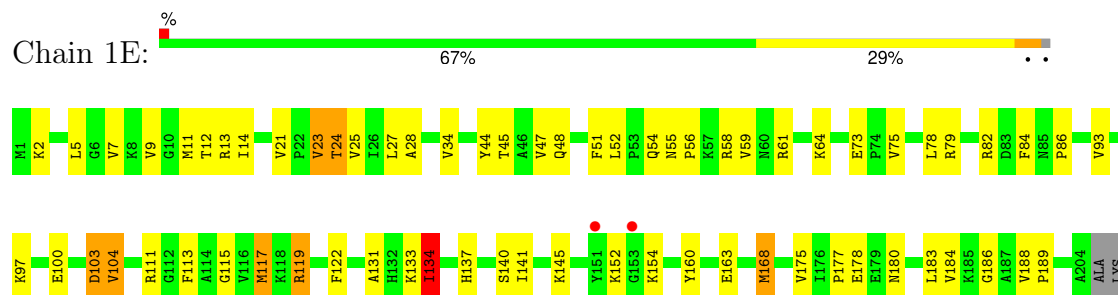
Chain 1D: 59% 34% 7%



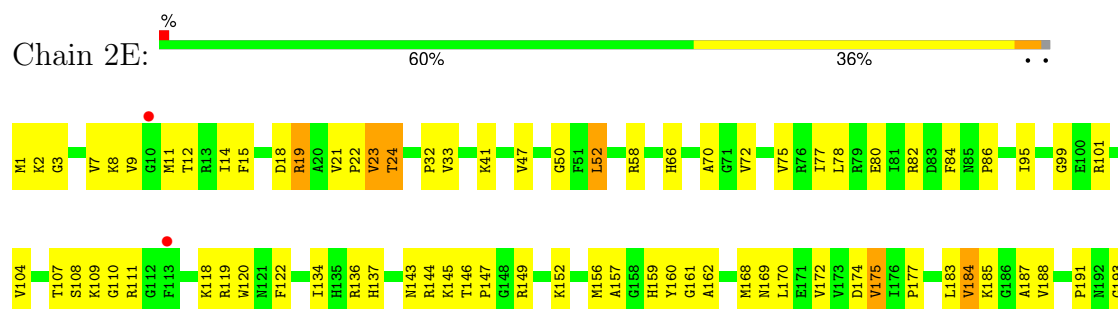
• Molecule 3: 50S ribosomal protein L2



• Molecule 4: 50S ribosomal protein L3

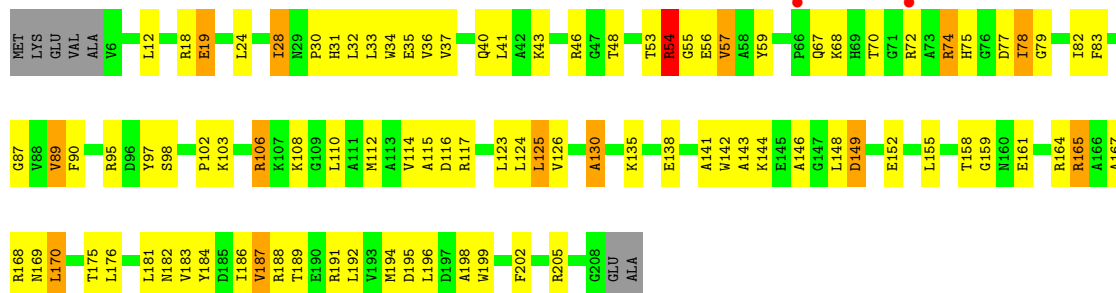


• Molecule 4: 50S ribosomal protein L3

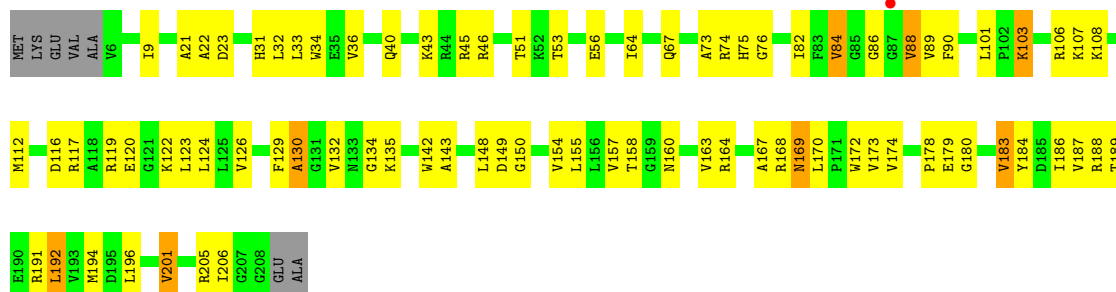




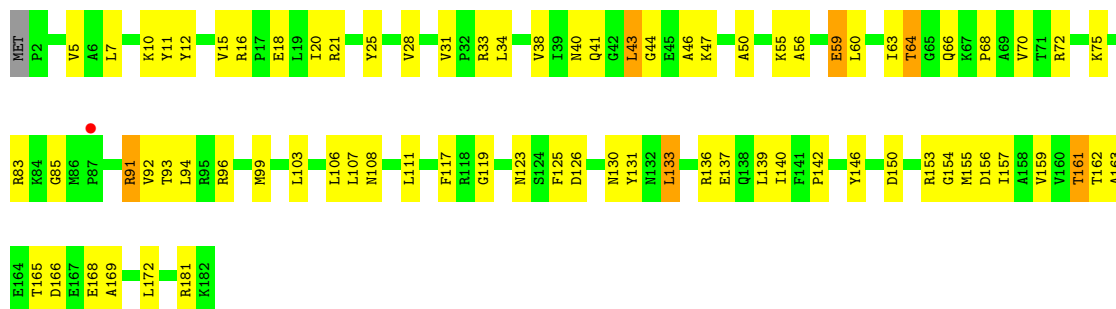
• Molecule 5: 50S ribosomal protein L4



• Molecule 5: 50S ribosomal protein L4

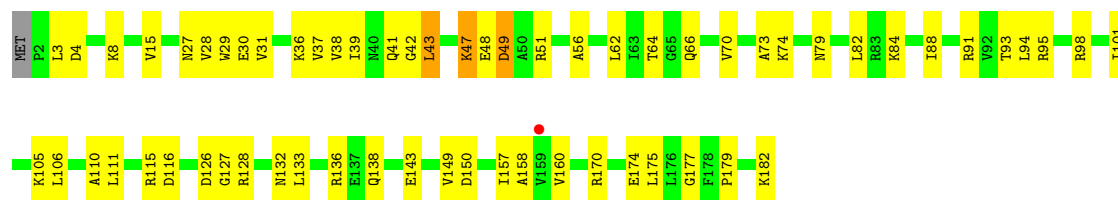


• Molecule 6: 50S ribosomal protein L5

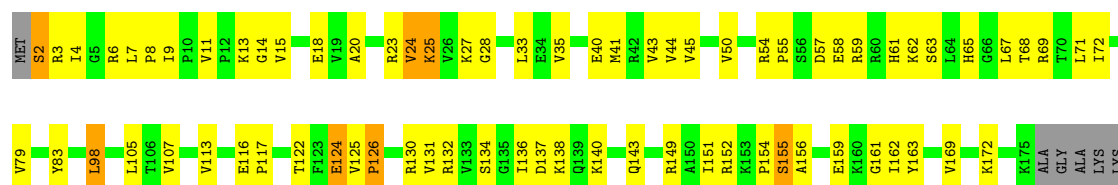


• Molecule 6: 50S ribosomal protein L5

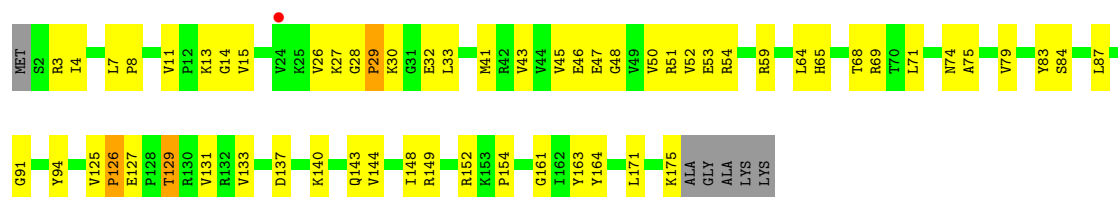




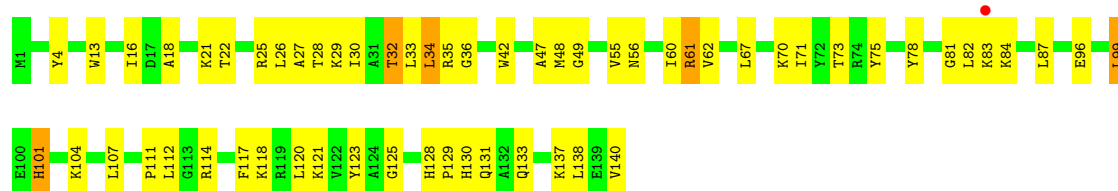
• Molecule 7: 50S ribosomal protein L6



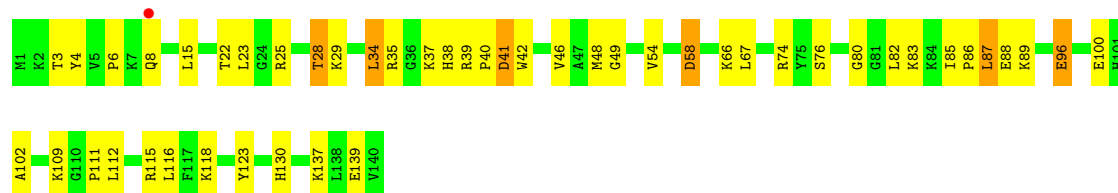
• Molecule 7: 50S ribosomal protein L6



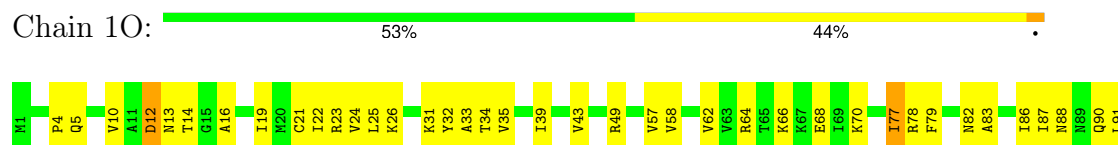
• Molecule 8: 50S ribosomal protein L13



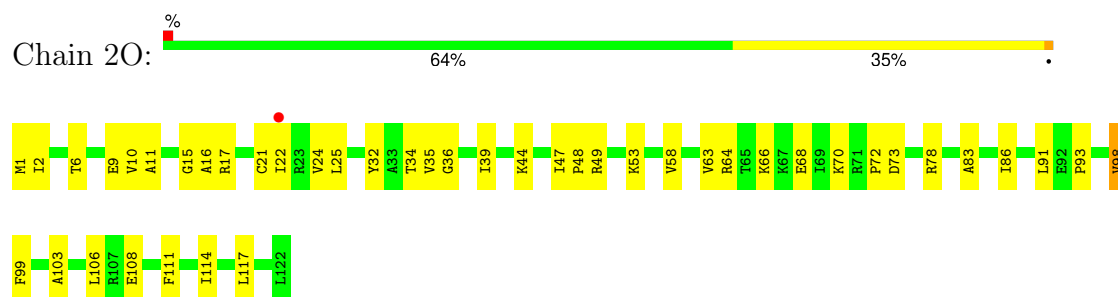
• Molecule 8: 50S ribosomal protein L13



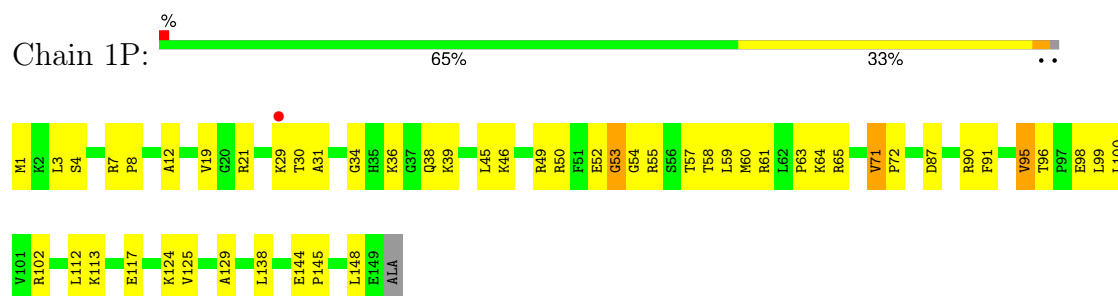
• Molecule 9: 50S ribosomal protein L14



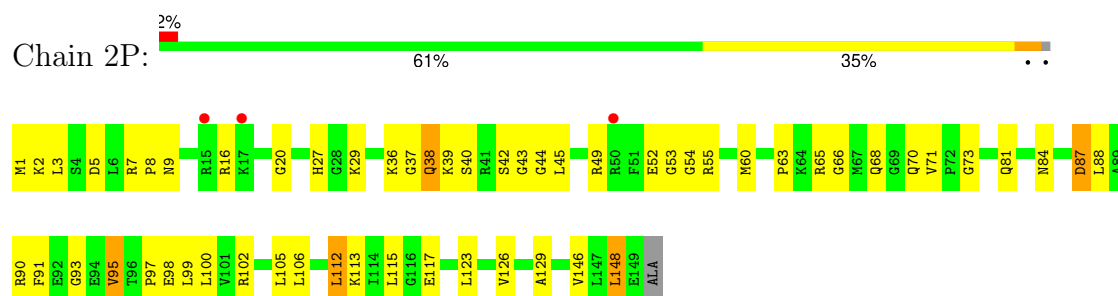
• Molecule 9: 50S ribosomal protein L14



• Molecule 10: 50S ribosomal protein L15



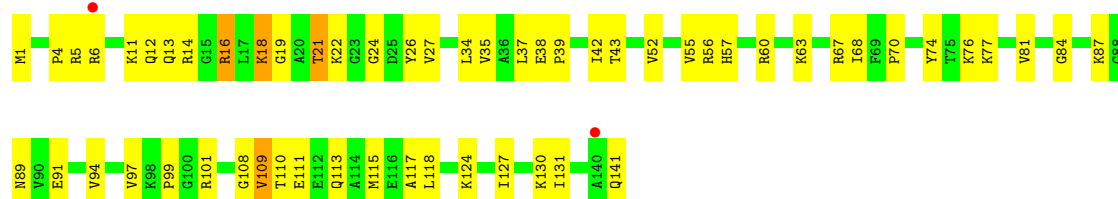
• Molecule 10: 50S ribosomal protein L15



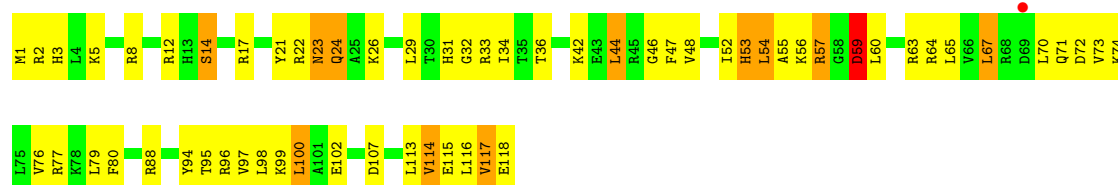
• Molecule 11: 50S ribosomal protein L16



- Molecule 11: 50S ribosomal protein L16



- Molecule 12: 50S ribosomal protein L17



- Molecule 12: 50S ribosomal protein L17



- Molecule 13: 50S ribosomal protein L18

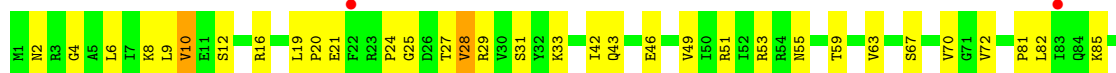


- Molecule 13: 50S ribosomal protein L18





- Molecule 14: 50S ribosomal protein L19



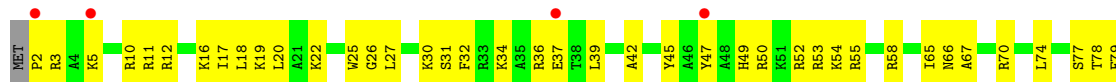
- Molecule 14: 50S ribosomal protein L19



- Molecule 15: 50S ribosomal protein L20

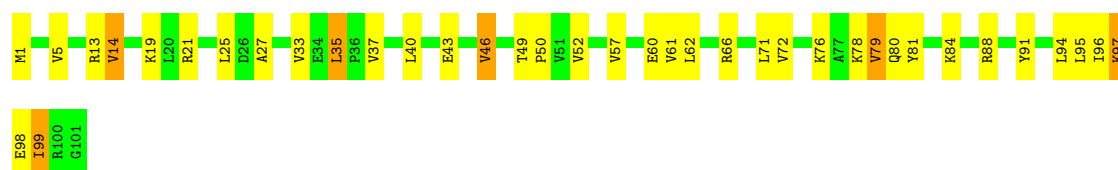


- Molecule 15: 50S ribosomal protein L20



- Molecule 16: 50S ribosomal protein L21

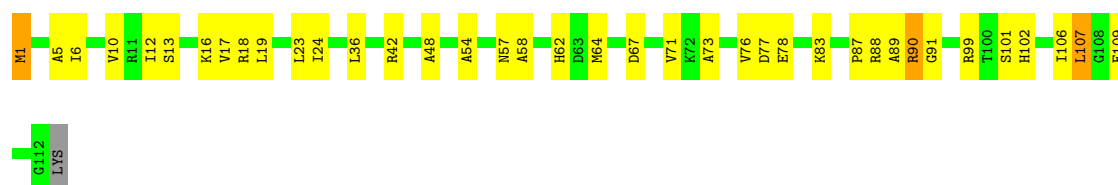




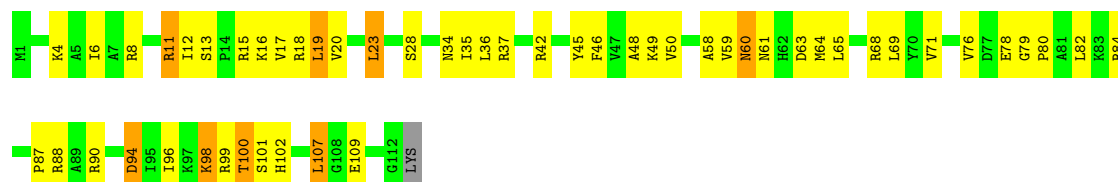
- Molecule 16: 50S ribosomal protein L21



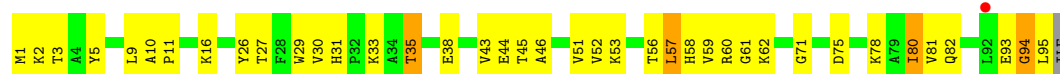
- Molecule 17: 50S ribosomal protein L22



- Molecule 17: 50S ribosomal protein L22



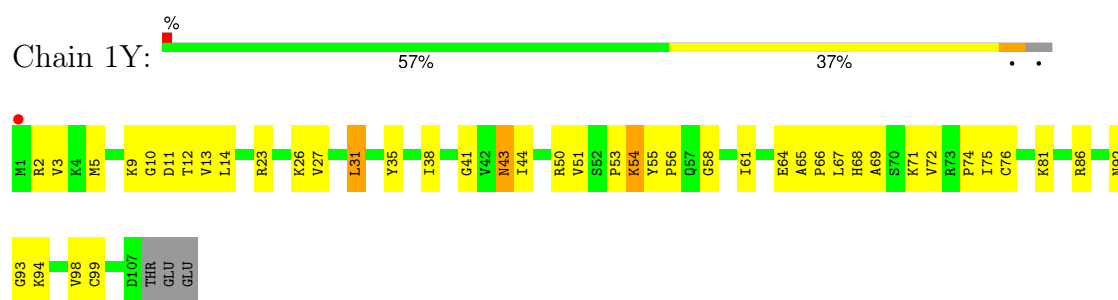
- Molecule 18: 50S ribosomal protein L23



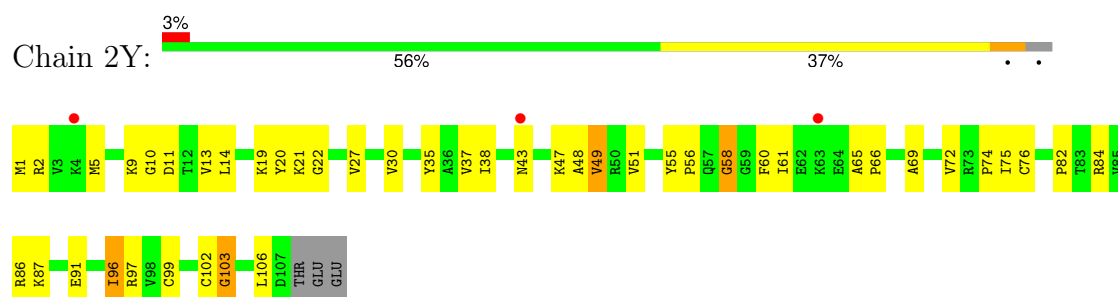
- Molecule 18: 50S ribosomal protein L23



- Molecule 19: 50S ribosomal protein L24



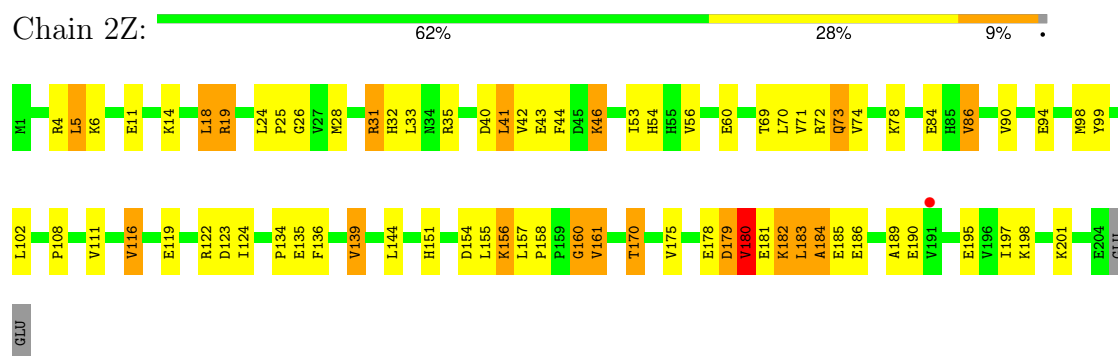
- Molecule 19: 50S ribosomal protein L24



- Molecule 20: 50S ribosomal protein L25



- Molecule 20: 50S ribosomal protein L25

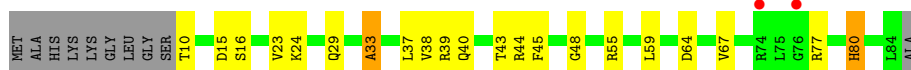


- Molecule 21: 50S ribosomal protein L27

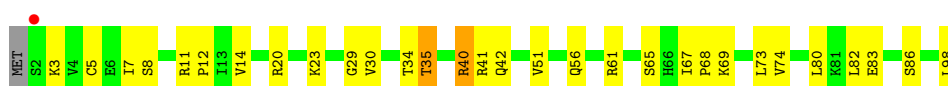




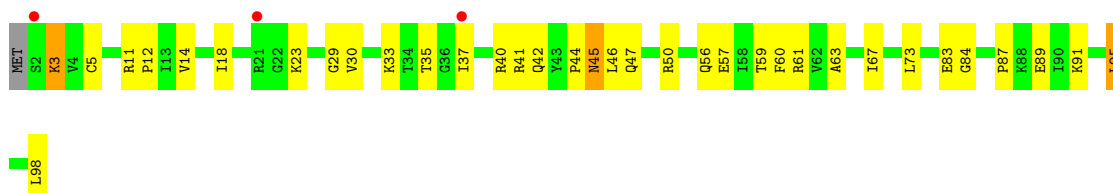
- Molecule 21: 50S ribosomal protein L27



- Molecule 22: 50S ribosomal protein L28



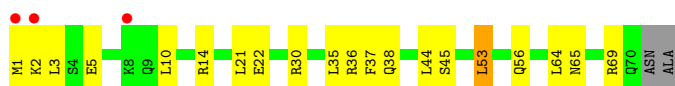
- Molecule 22: 50S ribosomal protein L28



- Molecule 23: 50S ribosomal protein L29



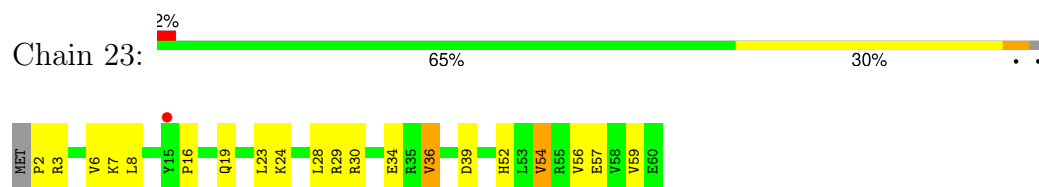
- Molecule 23: 50S ribosomal protein L29



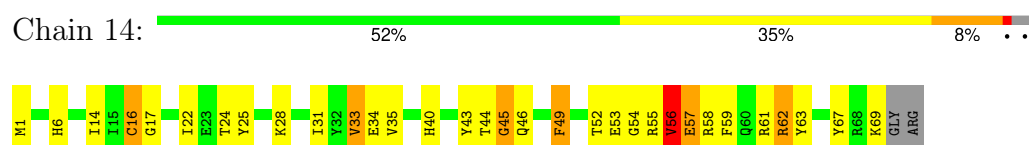
- Molecule 24: 50S ribosomal protein L30



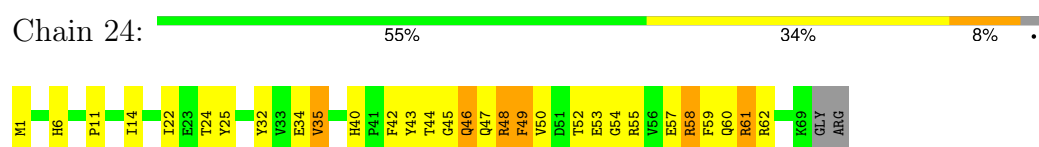
- Molecule 24: 50S ribosomal protein L30



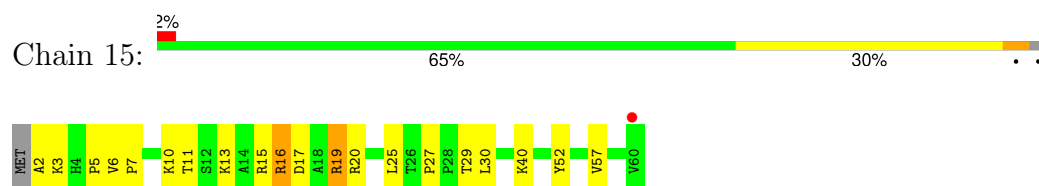
- Molecule 25: 50S ribosomal protein L31



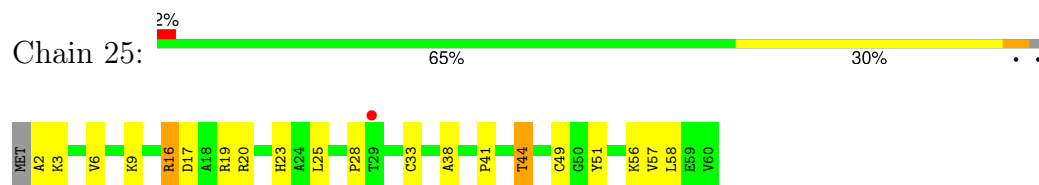
- Molecule 25: 50S ribosomal protein L31



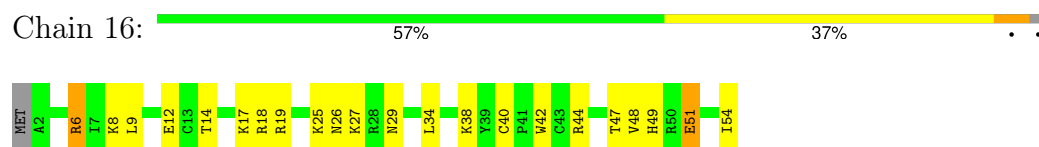
- Molecule 26: 50S ribosomal protein L32



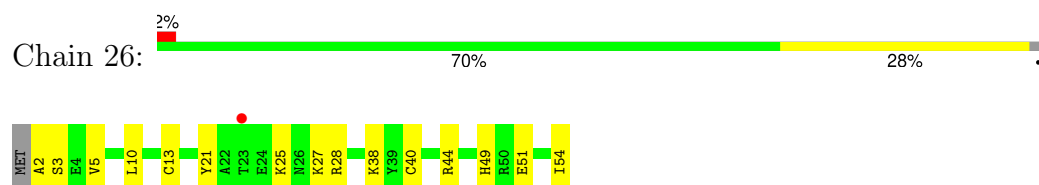
- Molecule 26: 50S ribosomal protein L32



- Molecule 27: 50S ribosomal protein L33



- Molecule 27: 50S ribosomal protein L33



- Molecule 28: 50S ribosomal protein L34

Chain 17:  55% 41% ..



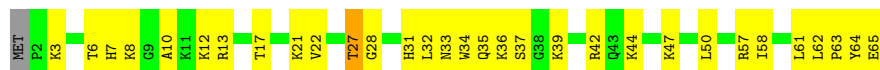
- Molecule 28: 50S ribosomal protein L34

Chain 27:  51% 41% 6% .



- Molecule 29: 50S ribosomal protein L35

Chain 18:  51% 46% ..



- Molecule 29: 50S ribosomal protein L35

Chain 28:  6% 69% 29% .



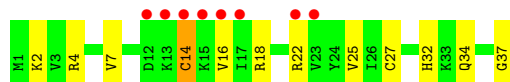
- Molecule 30: 50S ribosomal protein L36

Chain 19:  78% 22%



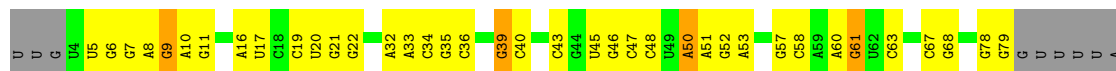
- Molecule 30: 50S ribosomal protein L36

Chain 29:  22% 68% 30% .

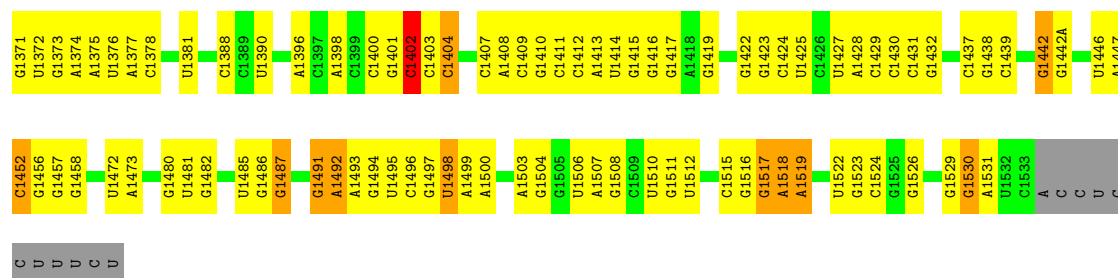


- Molecule 31: 16S Ribosomal RNA

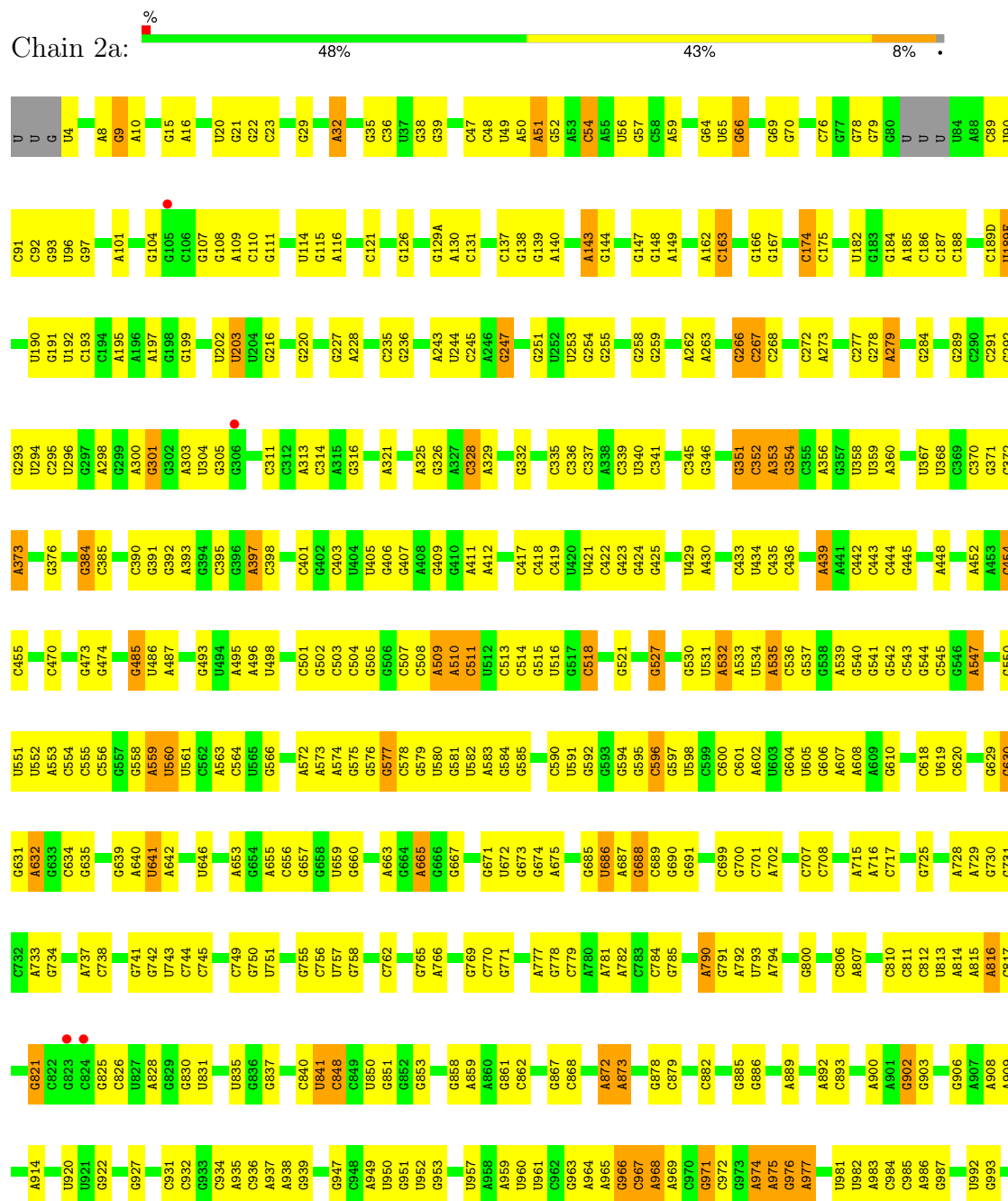
Chain 1a:  48% 43% 7% .

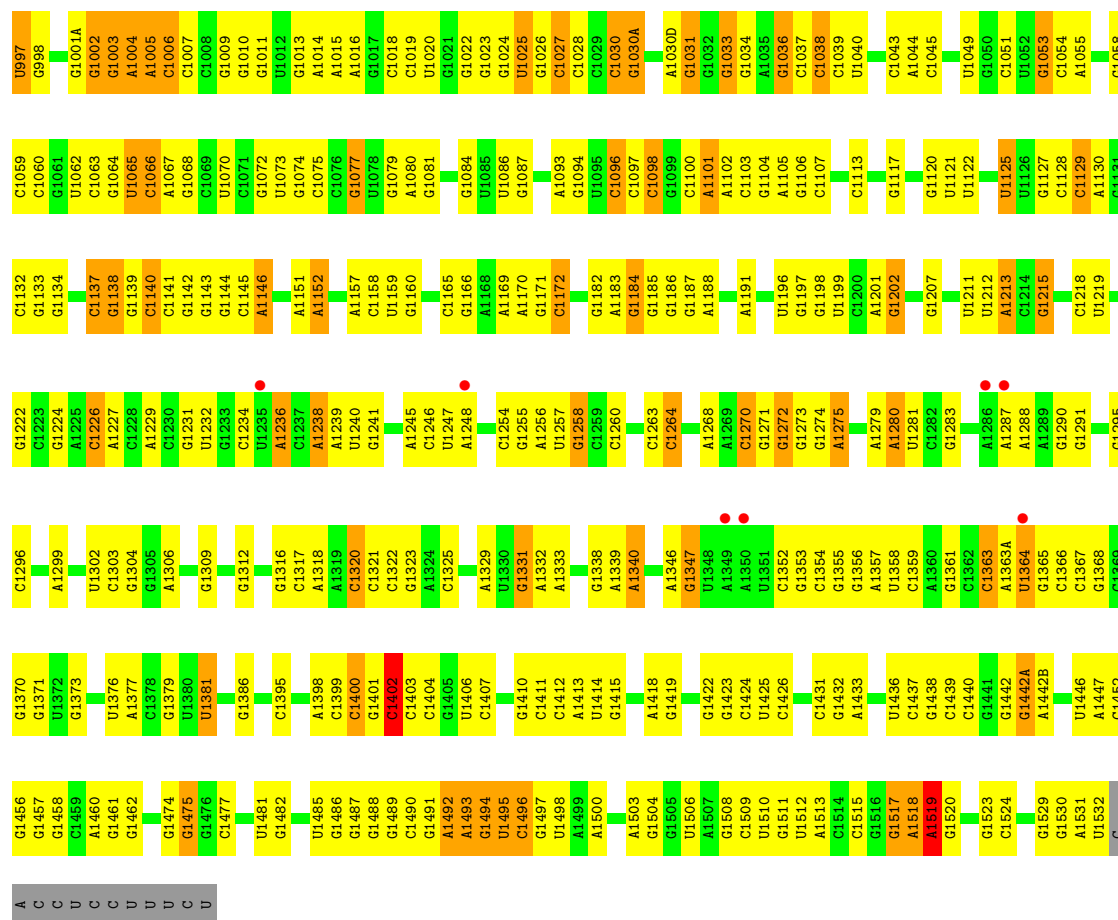


A1285	C1210	C1132	G1050	U981	C993	A790	G696	C620	C536	A439	G357	C271	G168	C
A1286	U1211	G1133	C1051	U982	A900	G791	G699	A621	G537	A441	U558	C272	A171	U90
A1287	U1212	G1134	C1054	A983	A901	A792	C699		G538	C442	U559			C91
A1288	A1213	G1135	A1055	C985	G902	U793	G700		A539	G447	A360			
		C1137	G1058	A986	A908	A794	A704		G540	A448	C279			U96
	G1216	G1138	C1059		A909	C795			G541	A448	C280			G97
	G1217	G1139	C1063	U992	A914	C805	C707		G542	A448	C289			G98
	U1218	C1140	G1064	G993	A915	C806	C708		G543	A448	G289			U99
	U1219	C1141	U1065	U997	A916	A	G711		G544	A448	G292			C100
	G1220	G1142	U1066	G998	A917	C808	G712		G545	A448	G293			A101
	G1221	G1143	U1067	C999	A918	C809	G713		A547	A448	G294			G102
	G1222	G1144	U1068	U1000	A919	C810	G714		U551	A448	G295			C103
		C1145	U1069	G1002	A920	C811	G715		U552	A448	G296			G104
	A1225	A1146	A1067	G1003	A921	C812	G716		C555	A448	G297			
		G1147	U1070	G1004	A922	C813	G717		C556	A448	G298			G107
	C1226	U1148	U1071	G1005	G926	C814	G718		C557	A448	G299			G108
	A1227	U1149	U1072	G1006	G927	C815	G719		C558	A448	G300			A109
	U1228	C1149	U1073	C1007	G928	C816	G720		C559	A448	G301			C110
	A1229	U1150	U1074	C1008	G929	C817	G721		C560	A448	G302			G111
		A1151	U1075	C1009	G930	C818	G722		C561	A448	G303			G112
	U1232	A1152	U1076	C1010	G931	C819	G723		C562	A448	G304			U114
		G1155	U1077	G1011	G932	C820	G724		C563	A448	G305			G115
	U1235	G1156	U1078	G1012	G933	C821	G725		C564	A448	G306			A116
	A1236	U1157	U1079	G1013	G934	C822	G726		C565	A448	G307			
	C1237	U1158	U1080	A1014	G935	C823	G727		C566	A448	G308			G121
	A1238	C1159	U1081	A1015	A936	G824	G728		C567	A448	G309			G129A
	A1239	C1160	U1082	A1016	A937	C825	G729		C568	A448	G310			A130
	U1240	C1161	U1083	A1017	G836	C826	G730		C569	A448	G311			C131
	G1241	C1162	U1084	A1018	G837	C827	G731		C570	A448	G312			A134
	C1242	C1163	U1085	A1019	G838	C828	G732		C571	A448	G313			C135
		A1164	U1086	A1020	C839	C829	G733		C572	A448	G314			G136
	A1248	A1165	U1087	A1021	C840	C830	G734		C573	A448	G315			C137
	C1249	A1170	U1088	A1022	C841	C831	G735		C574	A448	G316			G138
	A1250	G1171	U1089	G1023	C842	C832	G736		C575	A448	G317			G139
	A1251	C1172	U1090	G1024	C843	C833	G737		C576	A448	G318			
		G1173	U1091	U1025	C844	C834	G738		C577	A448	G319			
	A1256	G1174	U1092	U1026	C845	C835	G739		C578	A448	G320			
	U1257	A1180	U1093	G951	C846	C836	G740		C579	A448	G321			
	U1258		U1094	G952	C847	C837	G741		C580	A448	G322			
	C1259		U1095	G953	C848	C838	G742		C581	A448	G323			
	C1260		U1096	G954	C849	C839	G743		C582	A448	G324			
			U1097	G955	C850	C840	G744		C583	A448	G325			
			C1100	U956	C851	C841	G745		C584	A448	G326			
	C1263		U1101	U960	C852	C842	G746		C585	A448	G327			
	C1264		A1102	U961	C853	C843	G747		C586	A448	G328			
	G1265		C1103	U962	C854	C844	G748		C587	A448	G329			
	G1266		G1108	G966	C855	C845	G749		C588	A448	G330			
	C1267		C1109	G967	C856	C846	G750		C589	A448	G331			
	A1268		G1110	G968	C857	C847	G751		C590	A448	G332			
	A1269		C1111	G969	C858	C848	G752		C591	A448	G333			
	C1270		C1112	G970	C859	C849	G753		C592	A448	G334			
	G1271		G1113	G971	C860	C850	G754		C593	A448	G335			
			G1114	G972	C861	C851	G755		C594	A448	G336			
	U1272		G1115	G973	C862	C852	G756		C595	A448	G337			
	G1273		G1116	G974	C863	C853	G757		C596	A448	G338			
			U1122	G975	C864	C854	G758		C597	A448	G339			
	U1274		C1037	G976	G976	C855	G759		C598	A448	G340			
			C1038	G977	G977	C856	G760		C599	A448	G341			
			C1039	G978	G978	C857	G761		C600	A448	G342			
			G1043	G979	G979	C858	G762		C601	A448	G343			
	C1277		A1044	G980	G980	C859	G763		C602	A448	G344			
	U1278		U1125	G981	G981	C860	G764		C603	A448	G345			
	A1279		U1126	G982	G982	C861	G765		C604	A448	G346			
	A1280		G1127	G983	G983	C862	G766		C605	A448	G347			
			G1128	G984	G984	C863	G767		C606	A448	G348			
			G1129	G985	G985	C864	G768		C607	A448	G349			
			G1130	G986	G986	C865	G769		C608	A448	G350			
			G1131	G987	G987	C866	G770		C609	A448	G351			
				G988	G988	C867	G771		C610	A448	G352			
				G989	G989	C868	G772		C611	A448	G353			
				G990	G990	C869	G773		C612	A448	G354			
				G991	G991	C870	G774		C613	A448	G355			
				G992	G992	C871	G775		C614	A448	G356			
				G993	G993	C872	G776		C615	A448	G357			
				G994	G994	C873	G777		C616	A448	G358			
				G995	G995	C874	G778		C617	A448	G359			
				G996	G996	C875	G779		C618	A448	G360			
				G997	G997	C876	G780		C619	A448	G361			
				G998	G998	C877	G781		C620	A448	G362			
				G999	G999	C878	G782		C621	A448	G363			
				G1000	G1000	C879	G783		C622	A448	G364			
				G1001	G1001	C880	G784		C623	A448	G365			
				G1002	G1002	C881	G785		C624	A448	G366			
				G1003	G1003	C882	G786		C625	A448	G367			
				G1004	G1004	C883	G787		C626	A448	G368			
				G1005	G1005	C884	G788		C627	A448	G369			
				G1006	G1006	C885	G789		C628	A448	G370			
				G1007	G1007	C886	G790		C629	A448	G371			
				G1008	G1008	C887	G791		C630	A448	G372			
				G1009	G1009	C888	G792		C631	A448	G373			
				G1010	G1010	C889	G793		C632	A448	G374			
				G1011	G1011	C890	G794		C633	A448	G375			
				G1012	G1012	C891	G795		C634	A448	G376			
				G1013	G1013	C892	G796		C635	A448	G377			
				G1014	G1014	C893	G797		C636	A448	G378			
				G1015	G1015	C894	G798		C637	A448	G379			
				G1016	G1016	C895	G799		C638	A448	G380			
				G1017	G1017	C896	G800		C639	A448	G381			
				G1018	G1018	C897	G801		C640	A448	G382			
				G1019	G1019	C898	G802		C641	A448	G383			
				G1020	G1020	C899	G803		C642	A448	G384			
				G1021	G1021	C900	G804		C643	A448	G385			
				G1022	G1022	C901	G805		C644	A448	G386			
				G1023	G1023	C902	G806		C645	A448	G387			
				G1024	G1024	C903	G807		C646	A448	G388			
				G1025	G1025	C904	G808		C647	A448	G389			
				G1026	G1026	C905	G809		C648	A448	G390			
				G1027	G1027	C906	G810		C649	A448	G391			
				G1028	G1028	C907	G811		C650	A448	G392			
				G1029	G1029	C908	G812		C651	A448	G393			
				G1030	G1030	C909	G813		C652	A448	G394			
				G1031	G1031	C910	G814		C653	A448	G395			
				G1032	G1032	C911	G815		C654	A448	G396			
				G1033	G1033	C912	G816		C655	A448	G397			
				G1034	G1034	C913	G817		C656	A448	G398			
				G1035	G1035	C914	G818		C657	A448	G399			
				G1036	G1036	C915	G819		C658	A448	G400			
				G1037	G1037	C916	G820		C659	A448	G401			
				G1038	G1038	C917	G821							

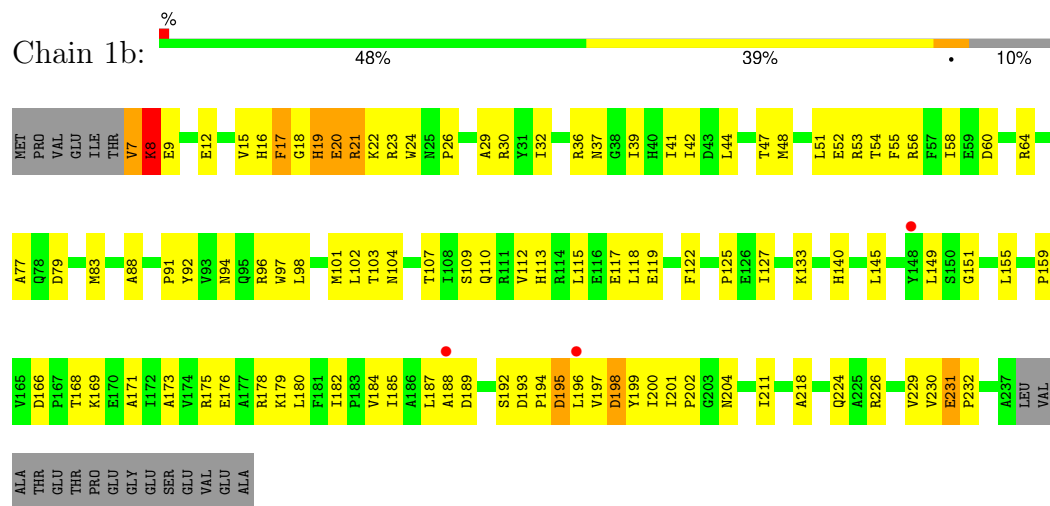


• Molecule 31: 16S Ribosomal RNA

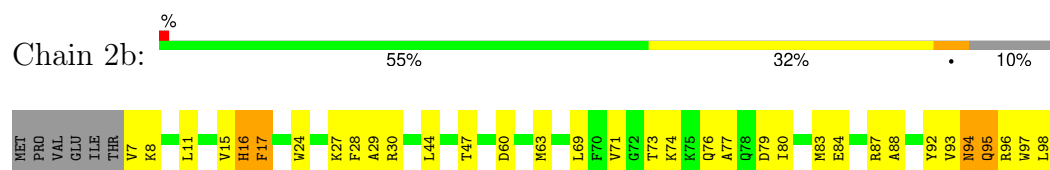


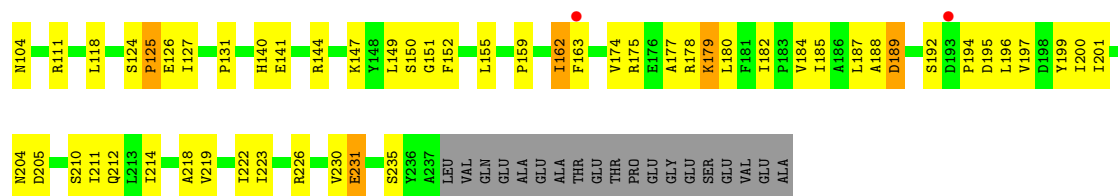


• Molecule 32: 30S ribosomal protein S2

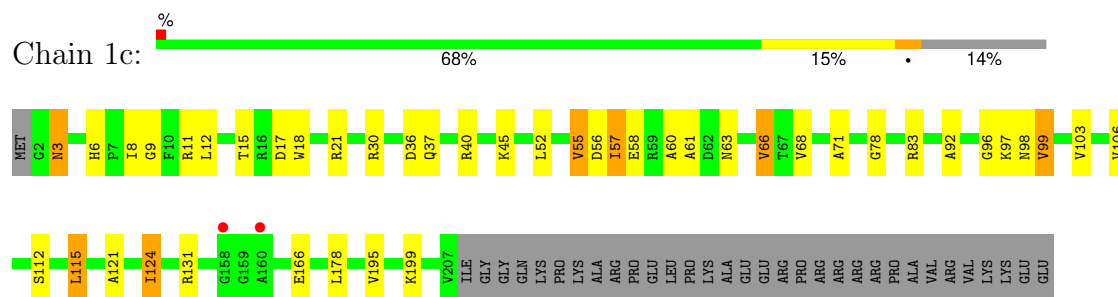


• Molecule 32: 30S ribosomal protein S2

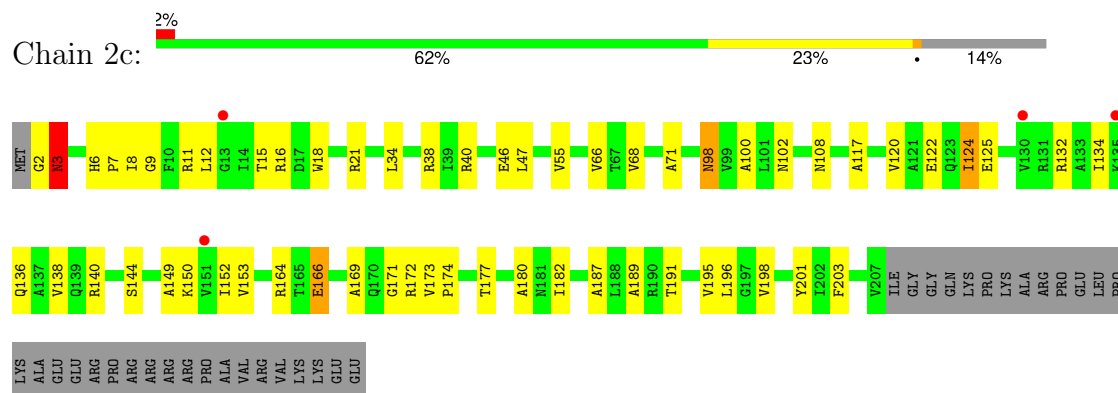




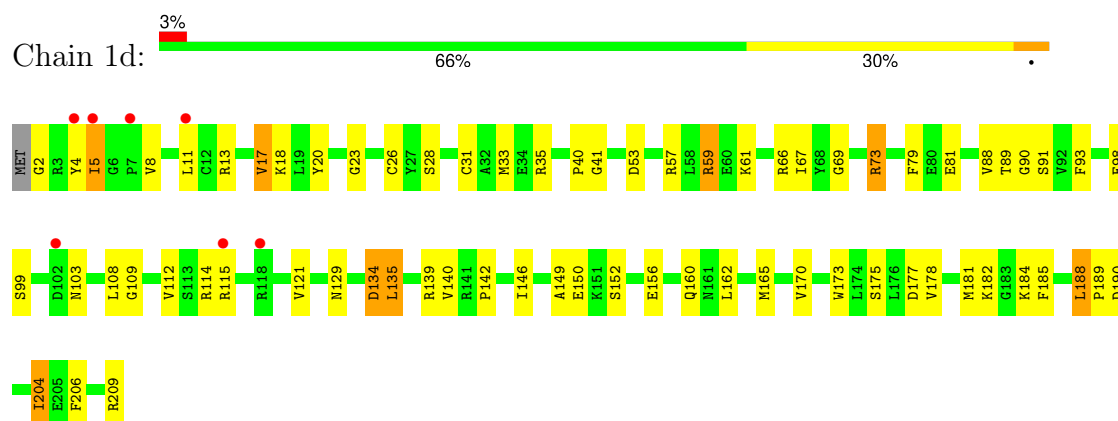
• Molecule 33: 30S ribosomal protein S3



• Molecule 33: 30S ribosomal protein S3

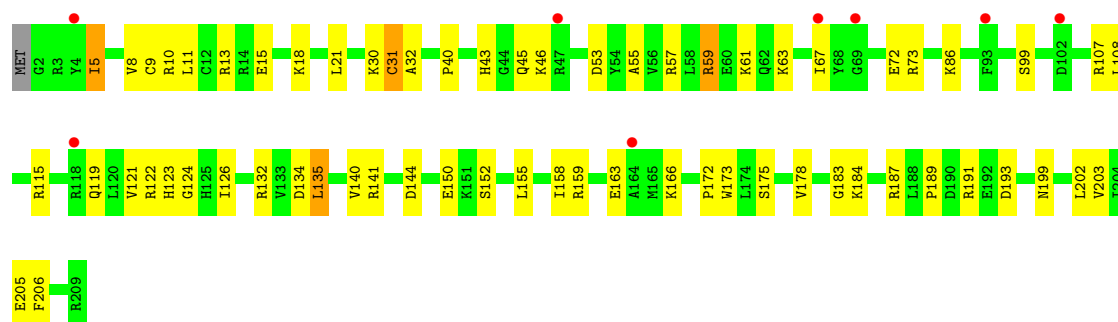


• Molecule 34: 30S ribosomal protein S4



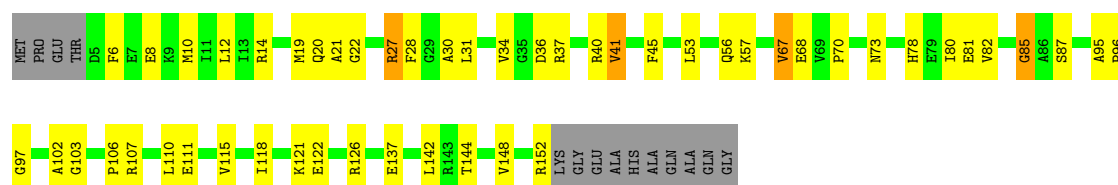
• Molecule 34: 30S ribosomal protein S4





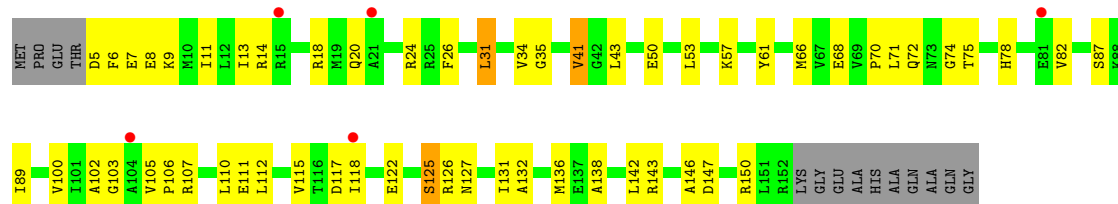
• Molecule 35: 30S ribosomal protein S5

Chain 1e: 60% 29% 9%



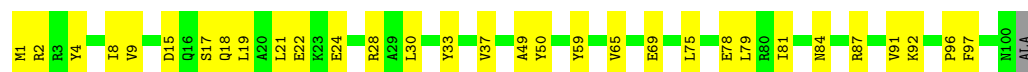
• Molecule 35: 30S ribosomal protein S5

Chain 2e: 3% 56% 33% 9%



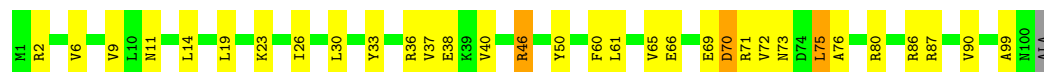
• Molecule 36: 30S ribosomal protein S6

Chain 1f: 68% 31% 1%



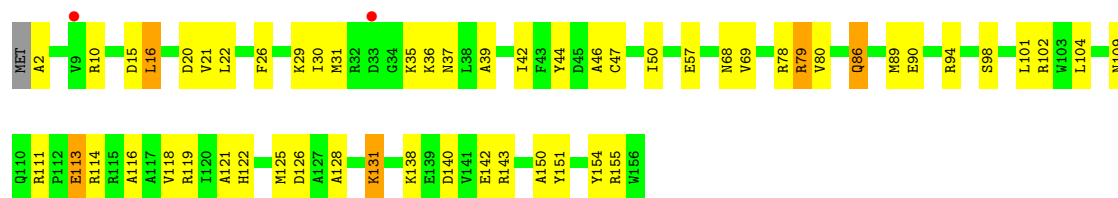
• Molecule 36: 30S ribosomal protein S6

Chain 2f: 67% 29% 4%

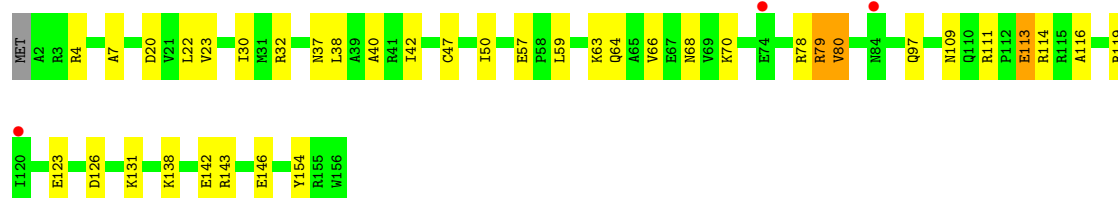
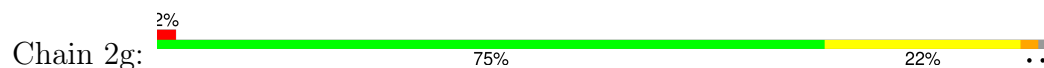


• Molecule 37: 30S ribosomal protein S7

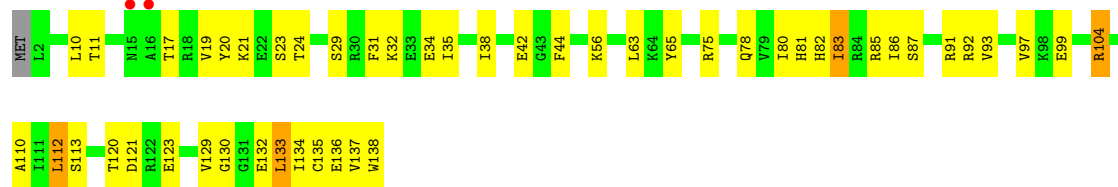
Chain 1g: 64% 32% 4%



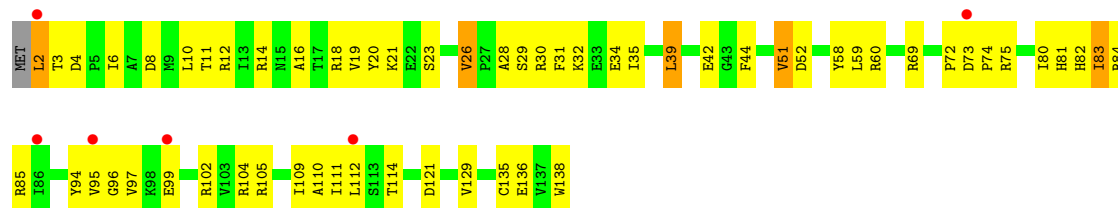
• Molecule 37: 30S ribosomal protein S7



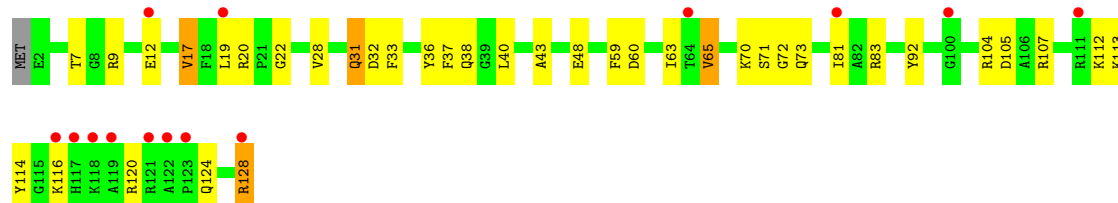
• Molecule 38: 30S ribosomal protein S8



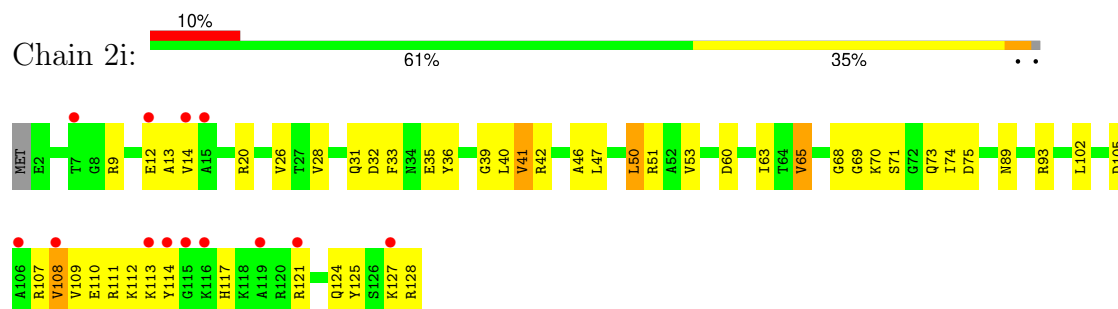
• Molecule 38: 30S ribosomal protein S8



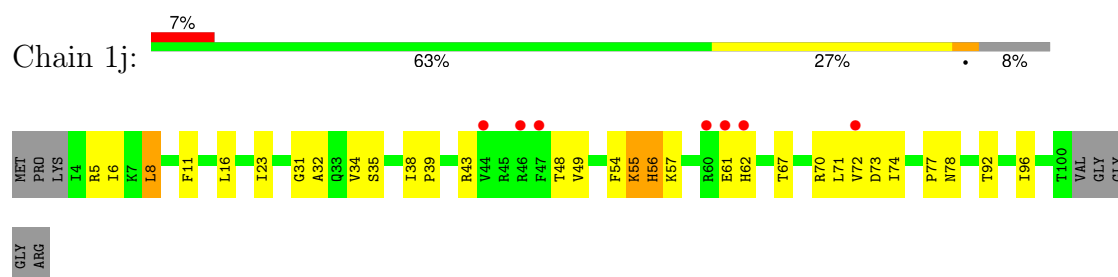
• Molecule 39: 30S ribosomal protein S9



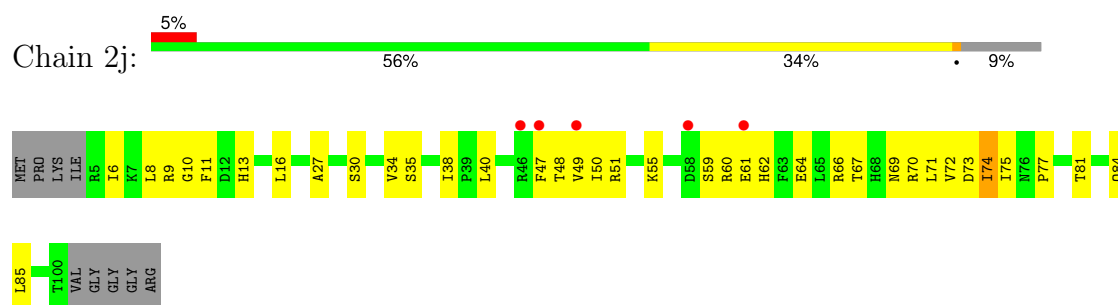
- Molecule 39: 30S ribosomal protein S9



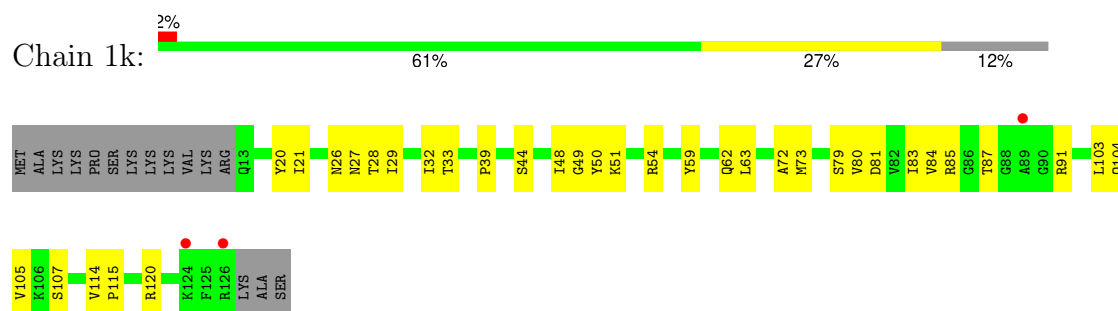
- Molecule 40: 30S ribosomal protein S10



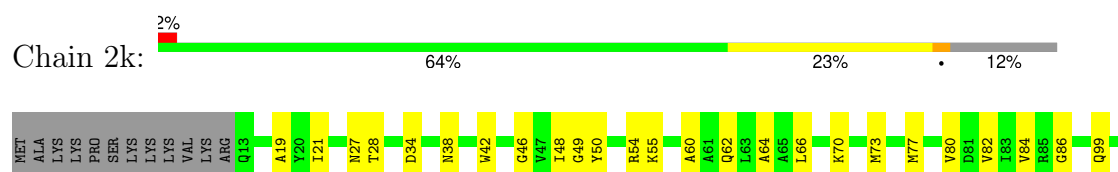
- Molecule 40: 30S ribosomal protein S10



- Molecule 41: 30S ribosomal protein S11



- Molecule 41: 30S ribosomal protein S11





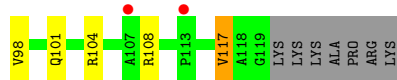
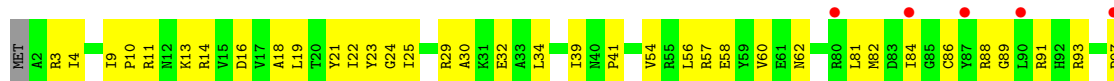
- Molecule 42: 30S ribosomal protein S12



- Molecule 42: 30S ribosomal protein S12



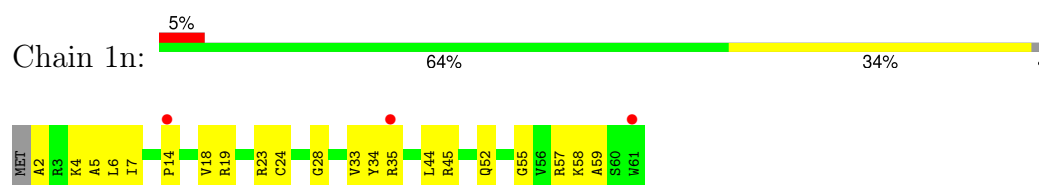
- Molecule 43: 30S ribosomal protein S13



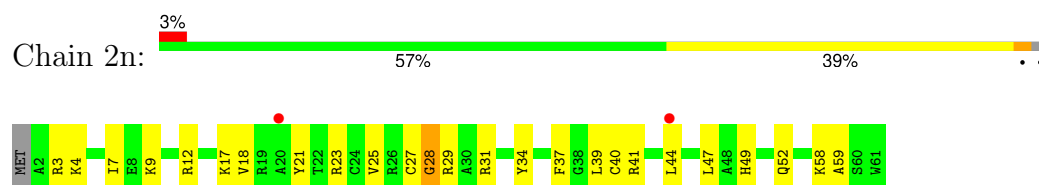
- Molecule 43: 30S ribosomal protein S13



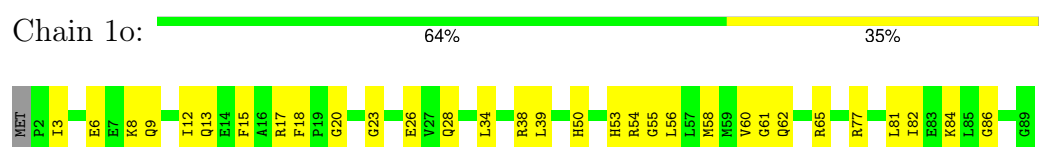
- Molecule 44: 30S ribosomal protein S14 type Z



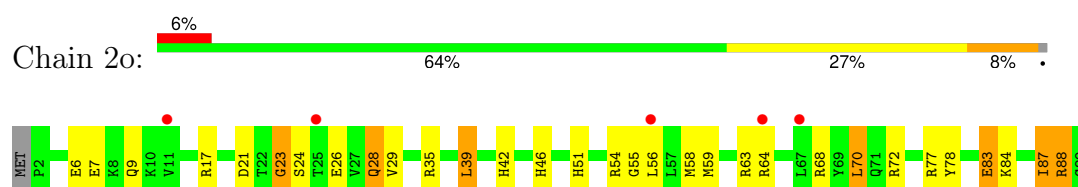
- Molecule 44: 30S ribosomal protein S14 type Z



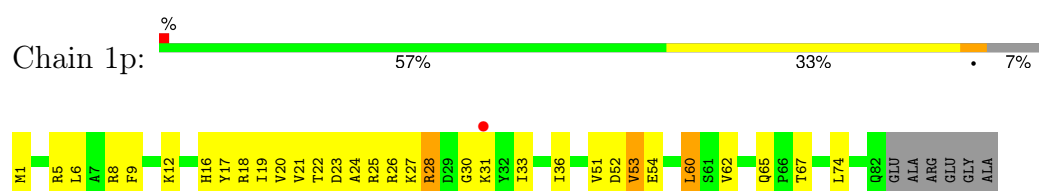
- Molecule 45: 30S ribosomal protein S15



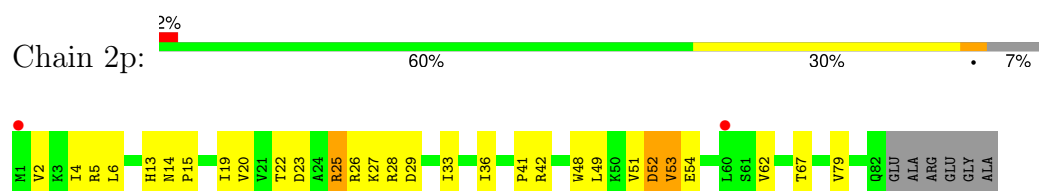
- Molecule 45: 30S ribosomal protein S15



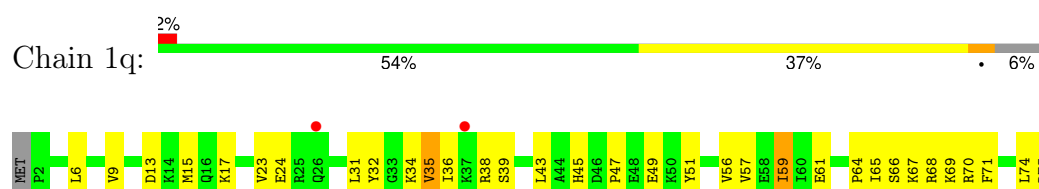
- Molecule 46: 30S ribosomal protein S16



- Molecule 46: 30S ribosomal protein S16

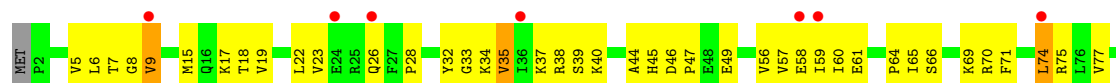


- Molecule 47: 30S ribosomal protein S17





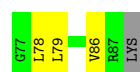
- Molecule 47: 30S ribosomal protein S17



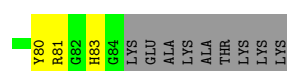
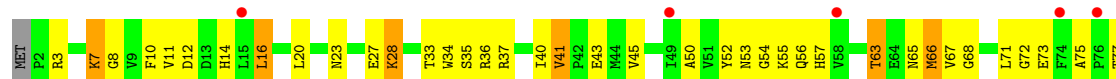
- Molecule 48: 30S ribosomal protein S18



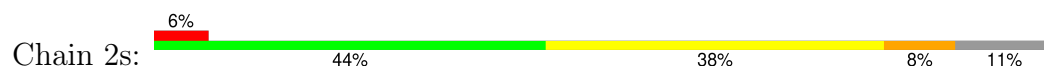
- Molecule 48: 30S ribosomal protein S18

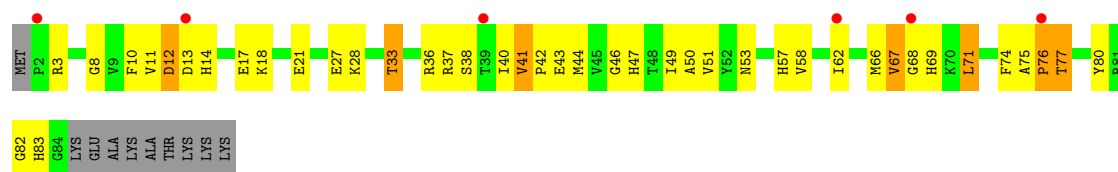


- Molecule 49: 30S ribosomal protein S19

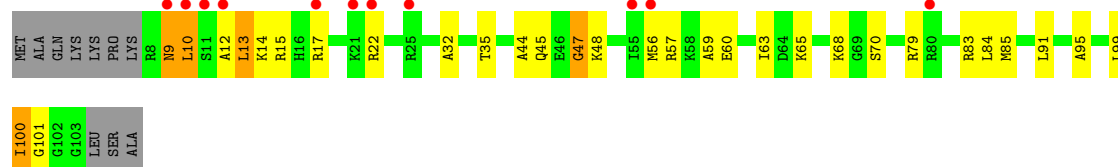


- Molecule 49: 30S ribosomal protein S19

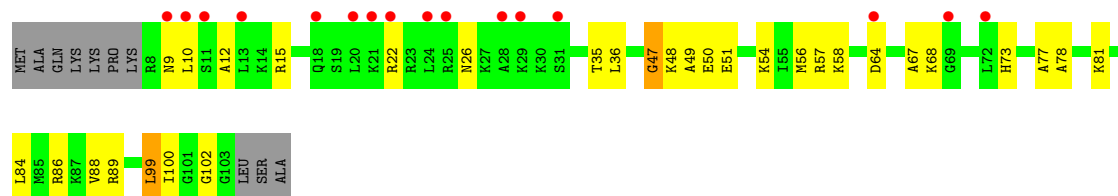




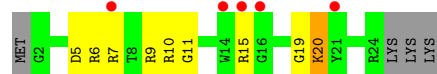
- Molecule 50: 30S ribosomal protein S20



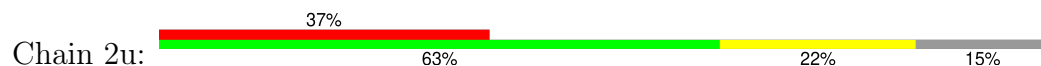
- Molecule 50: 30S ribosomal protein S20



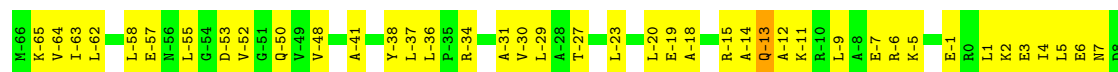
- Molecule 51: 30S ribosomal protein Thx

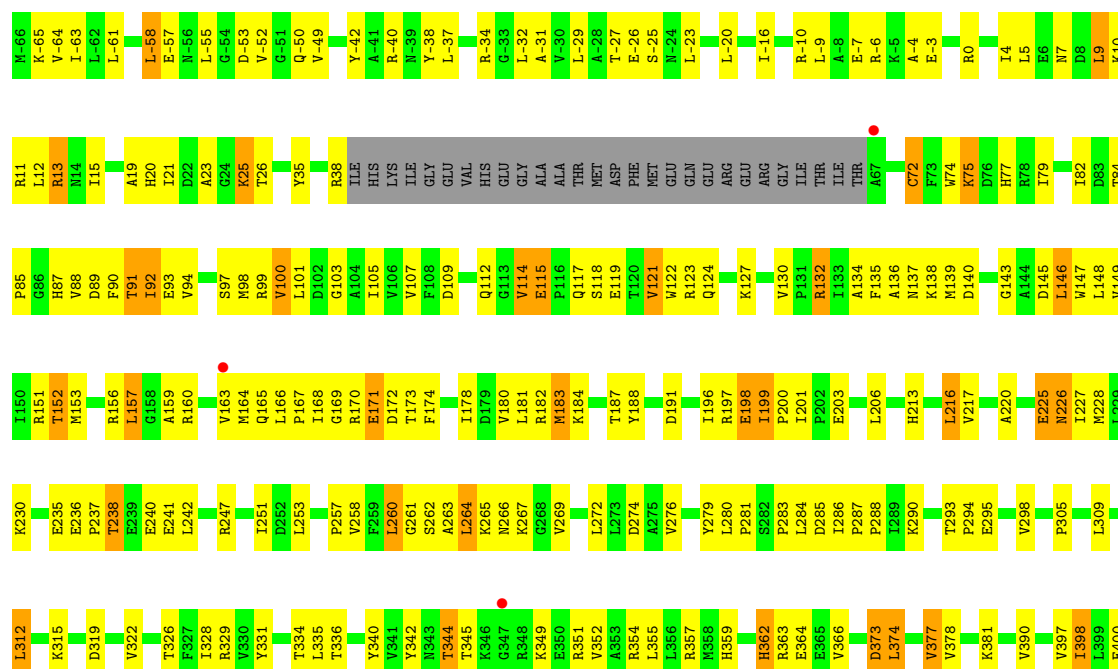


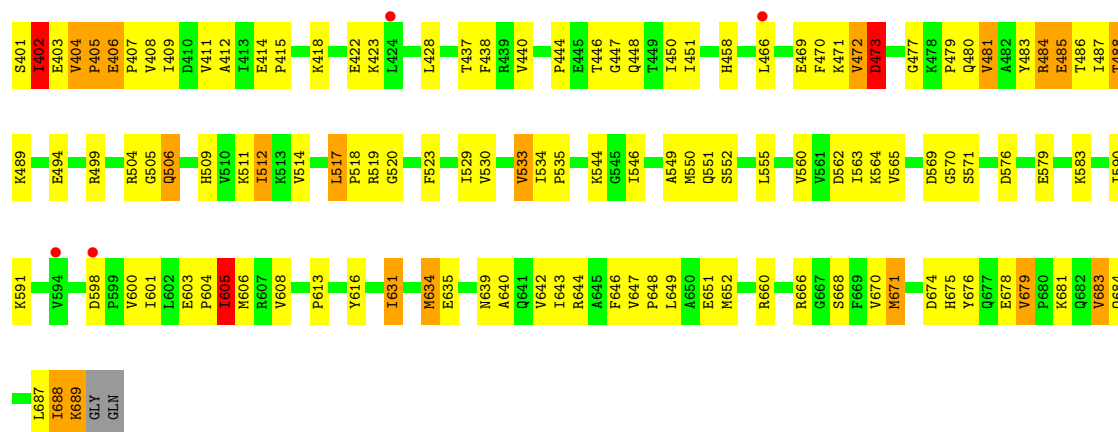
- Molecule 51: 30S ribosomal protein Thx



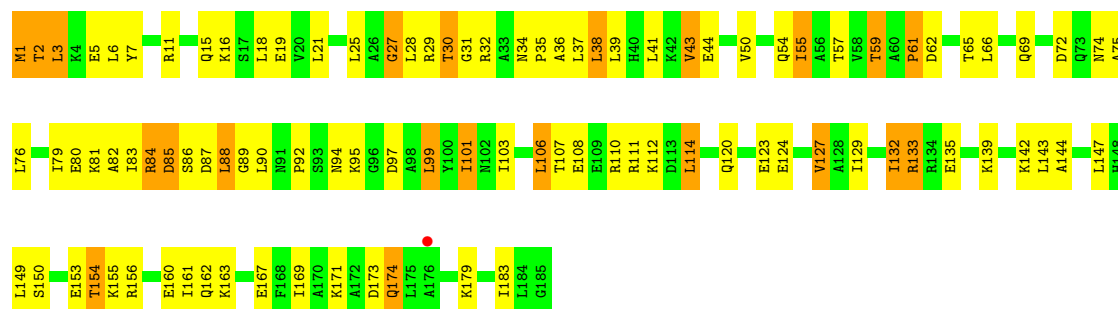
- Molecule 52: 50S ribosomal protein L9,Elongation factor G



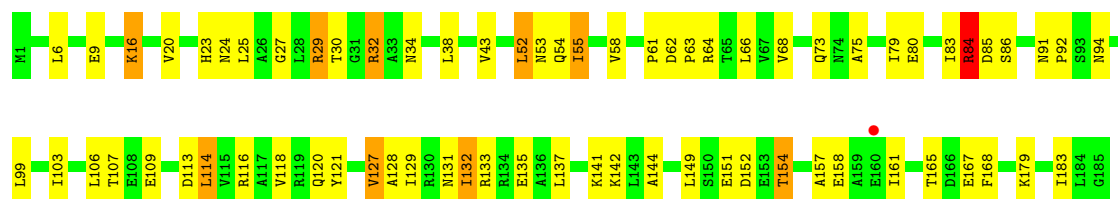




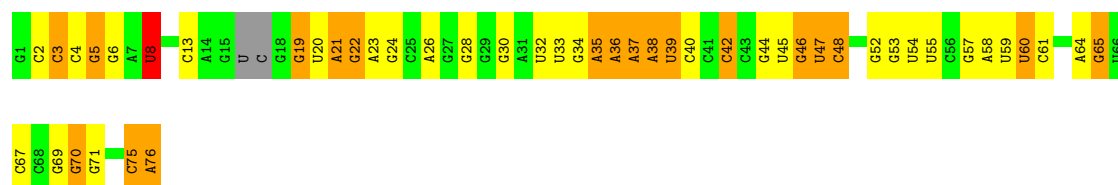
• Molecule 53: Ribosome-recycling factor



• Molecule 53: Ribosome-recycling factor



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



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

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.66Å 448.74Å 623.99Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.89 – 3.50 49.89 – 3.50	Depositor EDS
% Data completeness (in resolution range)	98.4 (49.89-3.50) 98.4 (49.89-3.50)	Depositor EDS
R_{merge}	0.33	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.09 (at 3.49Å)	Xtriage
Refinement program	PHENIX 1.13_2998	Depositor
R, R_{free}	0.244 , 0.294 0.245 , 0.294	Depositor DCC
R_{free} test set	36340 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	112.7	Xtriage
Anisotropy	0.257	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 75.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.36$, $\langle L^2 \rangle = 0.19$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	305259	wwPDB-VP
Average B, all atoms (Å ²)	135.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.56% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	0.34	0/69010	0.50	2/107716 (0.0%)
1	2A	0.23	2/67294 (0.0%)	0.38	0/105038
2	1B	0.29	0/2882	0.44	0/4494
2	2B	0.17	0/2879	0.31	0/4487
3	1D	0.34	0/2186	0.56	0/2944
3	2D	0.26	0/2186	0.49	0/2944
4	1E	0.34	0/1592	0.55	0/2149
4	2E	0.22	0/1592	0.45	0/2149
5	1F	0.35	0/1619	0.52	0/2193
5	2F	0.22	0/1615	0.44	0/2188
6	1G	0.26	0/1476	0.44	0/1989
6	2G	0.17	0/1478	0.37	0/1992
7	1H	0.32	0/1356	0.48	0/1834
7	2H	0.19	0/1356	0.35	0/1834
8	1N	0.35	0/1144	0.56	0/1543
8	2N	0.19	0/1144	0.40	0/1543
9	1O	0.31	0/943	0.52	0/1269
9	2O	0.23	0/943	0.43	0/1269
10	1P	0.32	0/1152	0.58	0/1533
10	2P	0.22	0/1152	0.47	0/1533
11	1Q	0.36	0/1143	0.56	0/1527
11	2Q	0.21	0/1143	0.42	0/1527
12	1R	0.34	0/982	0.58	0/1312
12	2R	0.26	0/982	0.48	0/1312
13	1S	0.28	0/883	0.50	0/1176
13	2S	0.18	0/880	0.39	0/1172
14	1T	0.30	0/1105	0.53	0/1477
14	2T	0.22	0/1097	0.43	0/1468
15	1U	0.40	0/977	0.58	0/1301
15	2U	0.20	0/977	0.38	0/1301
16	1V	0.35	0/782	0.57	0/1049

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2V	0.22	0/782	0.41	0/1049
17	1W	0.41	0/897	0.59	0/1205
17	2W	0.25	0/897	0.46	0/1205
18	1X	0.40	0/764	0.56	0/1025
18	2X	0.26	0/764	0.43	0/1025
19	1Y	0.36	0/819	0.57	0/1095
19	2Y	0.20	0/819	0.40	0/1095
20	1Z	0.32	0/1615	0.56	0/2197
20	2Z	0.20	0/1615	0.44	2/2197 (0.1%)
21	10	0.35	0/606	0.56	0/808
21	20	0.22	0/606	0.42	0/808
22	11	0.31	0/762	0.47	0/1014
22	21	0.36	1/762 (0.1%)	0.44	0/1014
23	12	0.35	0/590	0.55	0/781
23	22	0.20	0/590	0.36	0/781
24	13	0.38	0/474	0.57	0/635
24	23	0.38	0/469	0.57	0/630
25	14	0.23	0/565	0.54	0/761
25	24	0.20	0/545	0.44	0/737
26	15	0.71	1/469 (0.2%)	0.79	1/635 (0.2%)
26	25	0.26	0/469	0.48	0/635
27	16	0.35	0/460	0.54	0/613
27	26	0.21	0/456	0.41	0/608
28	17	0.43	0/426	0.62	0/561
28	27	0.31	0/426	0.60	0/561
29	18	0.41	0/525	0.59	0/691
29	28	0.26	0/525	0.42	0/691
30	19	0.32	0/310	0.53	0/407
30	29	0.22	0/310	0.46	0/407
31	1a	0.19	0/35769	0.33	3/55821 (0.0%)
31	2a	0.18	0/35886	0.32	0/56005
32	1b	0.20	0/1881	0.47	1/2542 (0.0%)
32	2b	0.17	0/1860	0.39	0/2518
33	1c	0.14	0/1572	0.32	0/2126
33	2c	0.16	0/1566	0.34	0/2119
34	1d	0.19	0/1685	0.41	0/2262
34	2d	0.18	0/1704	0.38	0/2284
35	1e	0.23	0/1145	0.43	0/1543
35	2e	0.21	0/1149	0.44	0/1548
36	1f	0.18	0/823	0.36	0/1115
36	2f	0.19	0/829	0.37	0/1123
37	1g	0.16	0/1250	0.36	0/1679
37	2g	0.16	0/1254	0.36	0/1683

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1h	0.19	0/1108	0.38	0/1494
38	2h	0.22	0/1108	0.43	0/1494
39	1i	0.19	0/1002	0.41	0/1346
39	2i	0.16	0/997	0.37	0/1343
40	1j	0.14	0/722	0.37	0/982
40	2j	0.14	0/727	0.36	0/988
41	1k	0.22	0/844	0.43	0/1145
41	2k	0.17	0/848	0.34	0/1149
42	1l	0.20	0/937	0.39	0/1260
42	2l	0.24	0/937	0.48	0/1260
43	1m	0.17	0/929	0.38	0/1250
43	2m	0.15	0/961	0.38	0/1291
44	1n	0.15	0/501	0.36	0/664
44	2n	0.17	0/501	0.41	0/664
45	1o	0.20	0/739	0.41	0/985
45	2o	0.17	0/739	0.35	0/985
46	1p	0.20	0/697	0.39	0/939
46	2p	0.21	0/693	0.40	0/935
47	1q	0.26	0/836	0.49	0/1117
47	2q	0.18	0/836	0.34	0/1117
48	1r	0.21	0/560	0.40	0/746
48	2r	0.18	0/560	0.36	0/746
49	1s	0.21	0/667	0.44	0/900
49	2s	0.17	0/661	0.44	0/893
50	1t	0.23	0/730	0.44	0/965
50	2t	0.21	0/729	0.42	0/965
51	1u	0.21	0/203	0.43	0/266
51	2u	0.16	0/203	0.39	0/266
52	1v	0.28	1/5765 (0.0%)	0.51	4/7809 (0.1%)
52	2v	0.23	1/5765 (0.0%)	0.43	1/7809 (0.0%)
53	1w	0.27	0/1497	0.48	0/2017
53	2w	0.24	0/1497	0.42	0/2017
54	1x	0.23	0/1602	0.37	0/2493
54	1y	0.23	0/1602	0.38	0/2493
54	2x	0.21	0/1602	0.32	0/2493
54	2y	0.22	1/1602 (0.1%)	0.36	0/2493
55	1z	0.19	0/237	0.31	0/366
55	2z	0.16	0/237	0.26	0/366
All	All	0.26	7/326021 (0.0%)	0.42	14/486013 (0.0%)

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	1v	199	ILE	C-N	13.27	1.49	1.33
26	15	27	PRO	CA-C	12.62	1.58	1.51
52	2v	287	PRO	CA-C	-8.79	1.47	1.51
1	2A	2426	A	O3'-P	-8.45	1.48	1.61
22	21	67	ILE	CA-CB	7.23	1.57	1.54

The worst 5 of 14 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	1v	199	ILE	CA-C-N	13.96	133.85	120.03
52	1v	199	ILE	C-N-CA	13.96	133.85	120.03
26	15	27	PRO	O-C-N	9.99	125.91	121.31
52	2v	287	PRO	O-C-N	-7.06	118.06	121.31
31	1a	1020	U	C2'-C3'-O3'	-6.30	104.25	113.70

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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	31185	1219	0
1	2A	60322	0	30409	1049	0
2	1B	2577	0	1305	40	0
2	2B	2575	0	1303	41	0
3	1D	2136	0	2217	98	0
3	2D	2136	0	2218	98	0
4	1E	1559	0	1616	53	0
4	2E	1559	0	1618	57	0
5	1F	1584	0	1625	79	0
5	2F	1580	0	1619	74	0
6	1G	1451	0	1496	64	0
6	2G	1453	0	1496	44	0
7	1H	1330	0	1407	46	0
7	2H	1330	0	1407	36	0
8	1N	1117	0	1183	39	0
8	2N	1117	0	1184	33	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	1O	933	0	996	50	0
9	2O	933	0	996	33	0
10	1P	1135	0	1212	56	0
10	2P	1135	0	1212	48	0
11	1Q	1122	0	1179	60	0
11	2Q	1122	0	1179	51	0
12	1R	968	0	1033	43	0
12	2R	968	0	1033	49	0
13	1S	873	0	927	25	0
13	2S	870	0	923	28	0
14	1T	1091	0	1151	38	0
14	2T	1083	0	1136	40	0
15	1U	959	0	1019	32	0
15	2U	959	0	1019	47	0
16	1V	771	0	830	24	0
16	2V	771	0	830	22	0
17	1W	886	0	940	32	0
17	2W	886	0	940	39	0
18	1X	750	0	814	38	0
18	2X	750	0	814	23	0
19	1Y	806	0	881	27	0
19	2Y	806	0	881	33	0
20	1Z	1582	0	1571	72	0
20	2Z	1582	0	1571	52	0
21	10	598	0	612	30	0
21	20	598	0	614	18	0
22	11	755	0	825	21	0
22	21	755	0	826	28	0
23	12	588	0	643	27	0
23	22	588	0	643	16	0
24	13	469	0	518	16	0
24	23	464	0	514	19	0
25	14	552	0	533	28	0
25	24	532	0	503	20	0
26	15	455	0	465	18	0
26	25	455	0	465	17	0
27	16	453	0	473	22	0
27	26	449	0	469	10	0
28	17	418	0	467	21	0
28	27	418	0	467	18	0
29	18	517	0	582	37	0
29	28	517	0	582	16	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
30	19	307	0	335	5	0
30	29	307	0	335	10	0
31	1a	32224	0	16272	580	0
31	2a	32327	0	16325	568	0
32	1b	1846	0	1867	73	0
32	2b	1825	0	1828	65	0
33	1c	1548	0	1535	29	0
33	2c	1542	0	1516	40	0
34	1d	1655	0	1671	48	0
34	2d	1674	0	1714	45	0
35	1e	1129	0	1184	41	0
35	2e	1133	0	1191	39	0
36	1f	810	0	804	26	0
36	2f	816	0	808	23	0
37	1g	1231	0	1238	37	0
37	2g	1235	0	1249	26	0
38	1h	1088	0	1126	41	0
38	2h	1088	0	1125	43	0
39	1i	983	0	986	30	0
39	2i	978	0	965	39	0
40	1j	709	0	650	22	0
40	2j	714	0	672	30	0
41	1k	829	0	825	23	0
41	2k	833	0	836	24	0
42	1l	932	0	981	34	0
42	2l	932	0	981	36	0
43	1m	919	0	951	32	0
43	2m	950	0	988	39	0
44	1n	492	0	528	21	0
44	2n	492	0	529	24	0
45	1o	728	0	760	19	0
45	2o	728	0	760	20	0
46	1p	681	0	697	19	0
46	2p	677	0	686	21	0
47	1q	823	0	891	33	0
47	2q	823	0	891	32	0
48	1r	555	0	618	22	0
48	2r	555	0	618	16	0
49	1s	652	0	662	46	0
49	2s	646	0	644	37	0
50	1t	728	0	798	23	0
50	2t	727	0	796	20	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
51	1u	199	0	208	7	0
51	2u	199	0	208	6	0
52	1v	5664	0	5748	215	0
52	2v	5664	0	5749	216	0
53	1w	1478	0	1526	72	0
53	2w	1478	0	1526	50	0
54	1x	1581	0	804	33	0
54	1y	1581	0	805	44	0
54	2x	1581	0	804	27	0
54	2y	1581	0	804	23	0
55	1z	212	0	108	8	0
55	2z	212	0	108	1	0
56	10	4	0	0	0	0
56	11	1	0	0	0	0
56	12	1	0	0	0	0
56	13	1	0	0	0	0
56	15	2	0	0	0	0
56	16	1	0	0	0	0
56	17	3	0	0	0	0
56	18	3	0	0	0	0
56	19	1	0	0	0	0
56	1A	1063	0	0	0	0
56	1B	26	0	0	0	0
56	1D	8	0	0	0	0
56	1E	8	0	0	0	0
56	1F	1	0	0	0	0
56	1H	2	0	0	0	0
56	1N	1	0	0	0	0
56	1O	5	0	0	0	0
56	1P	5	0	0	0	0
56	1Q	3	0	0	0	0
56	1R	3	0	0	0	0
56	1S	2	0	0	0	0
56	1T	5	0	0	0	0
56	1U	3	0	0	0	0
56	1V	1	0	0	0	0
56	1W	2	0	0	0	0
56	1Y	1	0	0	0	0
56	1Z	5	0	0	0	0
56	1a	319	0	0	0	0
56	1b	9	0	0	1	0
56	1d	4	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	1e	2	0	0	0	0
56	1g	2	0	0	0	0
56	1i	1	0	0	0	0
56	1l	1	0	0	0	0
56	1m	2	0	0	0	0
56	1n	2	0	0	0	0
56	1o	1	0	0	0	0
56	1p	1	0	0	0	0
56	1q	1	0	0	0	0
56	1s	3	0	0	0	0
56	1t	1	0	0	0	0
56	1u	1	0	0	0	0
56	1v	3	0	0	0	0
56	1x	2	0	0	0	0
56	1y	6	0	0	0	0
56	1z	1	0	0	0	0
56	20	6	0	0	0	0
56	21	1	0	0	0	0
56	23	3	0	0	0	0
56	24	1	0	0	0	0
56	25	1	0	0	0	0
56	26	2	0	0	0	0
56	27	3	0	0	0	0
56	28	6	0	0	0	0
56	29	2	0	0	0	0
56	2A	852	0	0	1	0
56	2B	32	0	0	0	0
56	2D	6	0	0	0	0
56	2E	5	0	0	0	0
56	2F	4	0	0	0	0
56	2N	2	0	0	0	0
56	2O	1	0	0	0	0
56	2P	3	0	0	0	0
56	2Q	6	0	0	0	0
56	2S	1	0	0	0	0
56	2T	2	0	0	0	0
56	2V	1	0	0	0	0
56	2X	1	0	0	0	0
56	2Y	2	0	0	0	0
56	2Z	4	0	0	0	0
56	2a	321	0	0	0	0
56	2b	3	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	2c	1	0	0	0	0
56	2d	3	0	0	0	0
56	2e	2	0	0	0	0
56	2f	4	0	0	0	0
56	2g	6	0	0	0	0
56	2h	5	0	0	0	0
56	2i	4	0	0	0	0
56	2k	2	0	0	0	0
56	2l	6	0	0	0	0
56	2m	3	0	0	0	0
56	2o	1	0	0	0	0
56	2p	3	0	0	0	0
56	2q	4	0	0	0	0
56	2r	2	0	0	0	0
56	2s	3	0	0	0	0
56	2t	1	0	0	0	0
56	2u	3	0	0	0	0
56	2v	3	0	0	0	0
56	2w	2	0	0	0	0
56	2x	8	0	0	0	0
56	2y	10	0	0	0	0
56	2z	3	0	0	0	0
57	14	1	0	0	0	0
57	15	1	0	0	0	0
57	16	1	0	0	0	0
57	19	1	0	0	0	0
57	1Y	1	0	0	0	0
57	1n	1	0	0	0	0
57	24	1	0	0	0	0
57	25	1	0	0	0	0
57	26	1	0	0	0	0
57	29	1	0	0	0	0
57	2Y	1	0	0	0	0
57	2n	1	0	0	0	0
58	1d	8	0	0	2	0
58	2d	8	0	0	1	0
59	1v	28	0	12	3	0
59	2v	28	0	12	2	0
60	2A	1	0	0	0	0
All	All	305259	0	207834	6490	0

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 13.

The worst 5 of 6490 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)
12:2R:101:ALA:HB2	26:25:44:THR:CG2	1.60	1.29
12:2R:101:ALA:HB2	26:25:44:THR:HG23	1.31	1.11
6:1G:161:THR:HG23	6:1G:163:ALA:H	1.13	1.08
1:2A:2138:C:N4	1:2A:2153:G:H1	1.52	1.06
12:2R:101:ALA:HB2	26:25:44:THR:HG21	1.31	1.04

There are no symmetry-related clashes.

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%)	241 (88%)	26 (10%)	6 (2%)	5	30
3	2D	273/276 (99%)	234 (86%)	33 (12%)	6 (2%)	5	30
4	1E	202/206 (98%)	179 (89%)	19 (9%)	4 (2%)	6	32
4	2E	202/206 (98%)	174 (86%)	26 (13%)	2 (1%)	12	44
5	1F	201/210 (96%)	182 (90%)	17 (8%)	2 (1%)	12	44
5	2F	201/210 (96%)	183 (91%)	15 (8%)	3 (2%)	8	37
6	1G	179/182 (98%)	155 (87%)	23 (13%)	1 (1%)	21	54
6	2G	179/182 (98%)	147 (82%)	27 (15%)	5 (3%)	4	26
7	1H	172/180 (96%)	152 (88%)	18 (10%)	2 (1%)	10	41
7	2H	172/180 (96%)	151 (88%)	19 (11%)	2 (1%)	10	41
8	1N	138/140 (99%)	121 (88%)	16 (12%)	1 (1%)	18	51
8	2N	138/140 (99%)	127 (92%)	8 (6%)	3 (2%)	5	30
9	1O	120/122 (98%)	105 (88%)	13 (11%)	2 (2%)	7	35
9	2O	120/122 (98%)	103 (86%)	16 (13%)	1 (1%)	16	49

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	1P	147/150 (98%)	134 (91%)	11 (8%)	2 (1%)	9	38
10	2P	147/150 (98%)	132 (90%)	13 (9%)	2 (1%)	9	38
11	1Q	139/141 (99%)	123 (88%)	14 (10%)	2 (1%)	9	38
11	2Q	139/141 (99%)	122 (88%)	16 (12%)	1 (1%)	18	51
12	1R	116/118 (98%)	91 (78%)	21 (18%)	4 (3%)	3	23
12	2R	116/118 (98%)	110 (95%)	5 (4%)	1 (1%)	14	47
13	1S	108/112 (96%)	96 (89%)	12 (11%)	0	100	100
13	2S	108/112 (96%)	96 (89%)	10 (9%)	2 (2%)	6	33
14	1T	129/146 (88%)	117 (91%)	12 (9%)	0	100	100
14	2T	129/146 (88%)	115 (89%)	13 (10%)	1 (1%)	16	49
15	1U	114/118 (97%)	104 (91%)	8 (7%)	2 (2%)	6	34
15	2U	114/118 (97%)	109 (96%)	4 (4%)	1 (1%)	14	47
16	1V	99/101 (98%)	85 (86%)	12 (12%)	2 (2%)	6	32
16	2V	99/101 (98%)	86 (87%)	12 (12%)	1 (1%)	12	44
17	1W	110/113 (97%)	98 (89%)	10 (9%)	2 (2%)	6	34
17	2W	110/113 (97%)	102 (93%)	7 (6%)	1 (1%)	14	47
18	1X	93/96 (97%)	84 (90%)	6 (6%)	3 (3%)	3	24
18	2X	93/96 (97%)	81 (87%)	11 (12%)	1 (1%)	11	43
19	1Y	105/110 (96%)	88 (84%)	15 (14%)	2 (2%)	6	33
19	2Y	105/110 (96%)	92 (88%)	10 (10%)	3 (3%)	3	26
20	1Z	202/206 (98%)	159 (79%)	34 (17%)	9 (4%)	2	17
20	2Z	202/206 (98%)	161 (80%)	28 (14%)	13 (6%)	1	11
21	10	73/85 (86%)	69 (94%)	4 (6%)	0	100	100
21	20	73/85 (86%)	67 (92%)	5 (7%)	1 (1%)	9	38
22	11	95/98 (97%)	90 (95%)	5 (5%)	0	100	100
22	21	95/98 (97%)	89 (94%)	4 (4%)	2 (2%)	5	31
23	12	68/72 (94%)	60 (88%)	5 (7%)	3 (4%)	2	17
23	22	68/72 (94%)	63 (93%)	5 (7%)	0	100	100
24	13	57/60 (95%)	51 (90%)	5 (9%)	1 (2%)	6	34
24	23	57/60 (95%)	51 (90%)	5 (9%)	1 (2%)	6	34
25	14	67/71 (94%)	51 (76%)	10 (15%)	6 (9%)	0	7

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	24	67/71 (94%)	53 (79%)	10 (15%)	4 (6%)	1	12
26	15	57/60 (95%)	53 (93%)	4 (7%)	0	100	100
26	25	57/60 (95%)	53 (93%)	4 (7%)	0	100	100
27	16	51/54 (94%)	46 (90%)	5 (10%)	0	100	100
27	26	51/54 (94%)	48 (94%)	2 (4%)	1 (2%)	6	32
28	17	46/49 (94%)	43 (94%)	3 (6%)	0	100	100
28	27	46/49 (94%)	40 (87%)	5 (11%)	1 (2%)	5	30
29	18	62/65 (95%)	54 (87%)	7 (11%)	1 (2%)	7	36
29	28	62/65 (95%)	57 (92%)	5 (8%)	0	100	100
30	19	35/37 (95%)	30 (86%)	5 (14%)	0	100	100
30	29	35/37 (95%)	31 (89%)	4 (11%)	0	100	100
32	1b	229/256 (90%)	190 (83%)	32 (14%)	7 (3%)	3	25
32	2b	229/256 (90%)	199 (87%)	22 (10%)	8 (4%)	3	23
33	1c	204/239 (85%)	183 (90%)	17 (8%)	4 (2%)	6	32
33	2c	204/239 (85%)	172 (84%)	30 (15%)	2 (1%)	12	44
34	1d	206/209 (99%)	181 (88%)	21 (10%)	4 (2%)	6	33
34	2d	206/209 (99%)	189 (92%)	16 (8%)	1 (0%)	24	57
35	1e	146/162 (90%)	127 (87%)	17 (12%)	2 (1%)	9	38
35	2e	146/162 (90%)	127 (87%)	19 (13%)	0	100	100
36	1f	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
36	2f	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
37	1g	153/156 (98%)	135 (88%)	14 (9%)	4 (3%)	4	27
37	2g	153/156 (98%)	135 (88%)	14 (9%)	4 (3%)	4	27
38	1h	135/138 (98%)	125 (93%)	10 (7%)	0	100	100
38	2h	135/138 (98%)	118 (87%)	16 (12%)	1 (1%)	18	51
39	1i	125/128 (98%)	106 (85%)	19 (15%)	0	100	100
39	2i	125/128 (98%)	104 (83%)	21 (17%)	0	100	100
40	1j	95/105 (90%)	82 (86%)	9 (10%)	4 (4%)	2	19
40	2j	94/105 (90%)	78 (83%)	15 (16%)	1 (1%)	11	43
41	1k	112/129 (87%)	101 (90%)	9 (8%)	2 (2%)	6	34
41	2k	112/129 (87%)	98 (88%)	12 (11%)	2 (2%)	6	34

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	1l	119/132 (90%)	109 (92%)	9 (8%)	1 (1%)	16	49
42	2l	119/132 (90%)	97 (82%)	19 (16%)	3 (2%)	4	28
43	1m	116/126 (92%)	100 (86%)	16 (14%)	0	100	100
43	2m	120/126 (95%)	104 (87%)	14 (12%)	2 (2%)	7	35
44	1n	58/61 (95%)	49 (84%)	8 (14%)	1 (2%)	7	35
44	2n	58/61 (95%)	50 (86%)	7 (12%)	1 (2%)	7	35
45	1o	86/89 (97%)	79 (92%)	5 (6%)	2 (2%)	5	30
45	2o	86/89 (97%)	78 (91%)	4 (5%)	4 (5%)	2	17
46	1p	80/88 (91%)	66 (82%)	12 (15%)	2 (2%)	4	28
46	2p	80/88 (91%)	71 (89%)	8 (10%)	1 (1%)	9	39
47	1q	97/105 (92%)	84 (87%)	13 (13%)	0	100	100
47	2q	97/105 (92%)	84 (87%)	11 (11%)	2 (2%)	5	31
48	1r	66/88 (75%)	64 (97%)	2 (3%)	0	100	100
48	2r	66/88 (75%)	62 (94%)	3 (4%)	1 (2%)	8	37
49	1s	81/93 (87%)	68 (84%)	9 (11%)	4 (5%)	1	16
49	2s	81/93 (87%)	65 (80%)	14 (17%)	2 (2%)	4	28
50	1t	94/106 (89%)	82 (87%)	7 (7%)	5 (5%)	1	14
50	2t	94/106 (89%)	81 (86%)	10 (11%)	3 (3%)	3	24
51	1u	21/27 (78%)	18 (86%)	3 (14%)	0	100	100
51	2u	21/27 (78%)	19 (90%)	2 (10%)	0	100	100
52	1v	724/758 (96%)	593 (82%)	105 (14%)	26 (4%)	2	22
52	2v	724/758 (96%)	602 (83%)	97 (13%)	25 (4%)	3	23
53	1w	183/185 (99%)	159 (87%)	16 (9%)	8 (4%)	2	17
53	2w	183/185 (99%)	165 (90%)	13 (7%)	5 (3%)	4	27
All	All	12975/13718 (95%)	11321 (87%)	1394 (11%)	260 (2%)	6	32

5 of 260 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	1F	130	ALA
7	1H	126	PRO
10	1P	53	GLY
11	1Q	16	ARG
16	1V	97	LYS

5.3.2 Protein sidechains ⓘ

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%)	190 (88%)	25 (12%)	5	24
3	2D	215/218 (99%)	202 (94%)	13 (6%)	17	44
4	1E	164/166 (99%)	146 (89%)	18 (11%)	6	26
4	2E	164/166 (99%)	148 (90%)	16 (10%)	7	30
5	1F	160/166 (96%)	143 (89%)	17 (11%)	6	27
5	2F	159/166 (96%)	152 (96%)	7 (4%)	25	51
6	1G	150/156 (96%)	140 (93%)	10 (7%)	15	41
6	2G	150/156 (96%)	144 (96%)	6 (4%)	28	54
7	1H	144/148 (97%)	133 (92%)	11 (8%)	12	37
7	2H	144/148 (97%)	140 (97%)	4 (3%)	38	61
8	1N	118/119 (99%)	104 (88%)	14 (12%)	5	23
8	2N	118/119 (99%)	111 (94%)	7 (6%)	18	44
9	1O	100/100 (100%)	94 (94%)	6 (6%)	17	44
9	2O	100/100 (100%)	96 (96%)	4 (4%)	28	54
10	1P	115/116 (99%)	107 (93%)	8 (7%)	14	39
10	2P	115/116 (99%)	109 (95%)	6 (5%)	21	47
11	1Q	111/111 (100%)	107 (96%)	4 (4%)	31	57
11	2Q	111/111 (100%)	104 (94%)	7 (6%)	16	42
12	1R	101/101 (100%)	80 (79%)	21 (21%)	1	6
12	2R	101/101 (100%)	96 (95%)	5 (5%)	22	48
13	1S	86/88 (98%)	75 (87%)	11 (13%)	4	21
13	2S	85/88 (97%)	80 (94%)	5 (6%)	18	44
14	1T	115/127 (91%)	104 (90%)	11 (10%)	8	30
14	2T	113/127 (89%)	109 (96%)	4 (4%)	32	57
15	1U	93/94 (99%)	89 (96%)	4 (4%)	26	51
15	2U	93/94 (99%)	92 (99%)	1 (1%)	65	74

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
16	1V	80/82 (98%)	68 (85%)	12 (15%)	3	17
16	2V	80/82 (98%)	76 (95%)	4 (5%)	22	48
17	1W	90/92 (98%)	83 (92%)	7 (8%)	11	36
17	2W	90/92 (98%)	80 (89%)	10 (11%)	6	25
18	1X	77/78 (99%)	71 (92%)	6 (8%)	11	36
18	2X	77/78 (99%)	72 (94%)	5 (6%)	15	42
19	1Y	85/91 (93%)	78 (92%)	7 (8%)	10	34
19	2Y	85/91 (93%)	80 (94%)	5 (6%)	18	44
20	1Z	167/179 (93%)	144 (86%)	23 (14%)	3	19
20	2Z	167/179 (93%)	147 (88%)	20 (12%)	5	23
21	10	60/67 (90%)	58 (97%)	2 (3%)	33	58
21	20	60/67 (90%)	58 (97%)	2 (3%)	33	58
22	11	80/83 (96%)	73 (91%)	7 (9%)	9	32
22	21	80/83 (96%)	76 (95%)	4 (5%)	22	48
23	12	65/67 (97%)	59 (91%)	6 (9%)	8	32
23	22	65/67 (97%)	64 (98%)	1 (2%)	57	71
24	13	51/52 (98%)	43 (84%)	8 (16%)	2	15
24	23	50/52 (96%)	46 (92%)	4 (8%)	11	35
25	14	59/63 (94%)	51 (86%)	8 (14%)	3	19
25	24	53/63 (84%)	47 (89%)	6 (11%)	5	25
26	15	50/52 (96%)	48 (96%)	2 (4%)	28	54
26	25	50/52 (96%)	46 (92%)	4 (8%)	11	35
27	16	51/52 (98%)	49 (96%)	2 (4%)	28	54
27	26	50/52 (96%)	50 (100%)	0	100	100
28	17	41/42 (98%)	37 (90%)	4 (10%)	7	30
28	27	41/42 (98%)	36 (88%)	5 (12%)	5	22
29	18	54/55 (98%)	52 (96%)	2 (4%)	30	56
29	28	54/55 (98%)	53 (98%)	1 (2%)	50	68
30	19	34/34 (100%)	33 (97%)	1 (3%)	37	60
30	29	34/34 (100%)	32 (94%)	2 (6%)	18	44
32	1b	192/220 (87%)	180 (94%)	12 (6%)	16	42

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
32	2b	187/220 (85%)	177 (95%)	10 (5%)	20	47
33	1c	142/188 (76%)	135 (95%)	7 (5%)	22	48
33	2c	140/188 (74%)	131 (94%)	9 (6%)	16	42
34	1d	169/181 (93%)	158 (94%)	11 (6%)	15	42
34	2d	173/181 (96%)	164 (95%)	9 (5%)	21	47
35	1e	113/123 (92%)	107 (95%)	6 (5%)	20	47
35	2e	114/123 (93%)	106 (93%)	8 (7%)	14	39
36	1f	84/90 (93%)	84 (100%)	0	100	100
36	2f	85/90 (94%)	78 (92%)	7 (8%)	10	34
37	1g	119/127 (94%)	111 (93%)	8 (7%)	15	41
37	2g	120/127 (94%)	117 (98%)	3 (2%)	42	63
38	1h	114/119 (96%)	109 (96%)	5 (4%)	25	51
38	2h	114/119 (96%)	106 (93%)	8 (7%)	14	39
39	1i	90/99 (91%)	84 (93%)	6 (7%)	15	41
39	2i	89/99 (90%)	80 (90%)	9 (10%)	7	28
40	1j	66/92 (72%)	63 (96%)	3 (4%)	24	50
40	2j	69/92 (75%)	67 (97%)	2 (3%)	37	60
41	1k	82/99 (83%)	79 (96%)	3 (4%)	30	56
41	2k	83/99 (84%)	81 (98%)	2 (2%)	43	64
42	1l	96/108 (89%)	89 (93%)	7 (7%)	13	38
42	2l	96/108 (89%)	94 (98%)	2 (2%)	47	66
43	1m	89/101 (88%)	86 (97%)	3 (3%)	32	57
43	2m	92/101 (91%)	87 (95%)	5 (5%)	20	46
44	1n	49/50 (98%)	46 (94%)	3 (6%)	17	43
44	2n	49/50 (98%)	48 (98%)	1 (2%)	48	67
45	1o	78/80 (98%)	77 (99%)	1 (1%)	61	72
45	2o	78/80 (98%)	71 (91%)	7 (9%)	9	32
46	1p	69/74 (93%)	61 (88%)	8 (12%)	5	24
46	2p	68/74 (92%)	63 (93%)	5 (7%)	13	37
47	1q	94/97 (97%)	89 (95%)	5 (5%)	20	47
47	2q	94/97 (97%)	90 (96%)	4 (4%)	26	51

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
48	1r	59/77 (77%)	56 (95%)	3 (5%)	21	48
48	2r	59/77 (77%)	56 (95%)	3 (5%)	21	48
49	1s	69/80 (86%)	64 (93%)	5 (7%)	13	38
49	2s	67/80 (84%)	61 (91%)	6 (9%)	9	32
50	1t	70/82 (85%)	68 (97%)	2 (3%)	37	60
50	2t	70/82 (85%)	69 (99%)	1 (1%)	59	71
51	1u	18/22 (82%)	17 (94%)	1 (6%)	19	46
51	2u	18/22 (82%)	18 (100%)	0	100	100
52	1v	605/636 (95%)	511 (84%)	94 (16%)	2	15
52	2v	605/636 (95%)	509 (84%)	96 (16%)	2	14
53	1w	157/157 (100%)	130 (83%)	27 (17%)	2	12
53	2w	157/157 (100%)	138 (88%)	19 (12%)	5	22
All	All	10671/11402 (94%)	9820 (92%)	851 (8%)	11	35

5 of 851 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
53	1w	101	ILE
17	2W	100	THR
52	2v	402	ILE
53	1w	174	GLN
53	1w	99	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 158 such sidechains are listed below:

Mol	Chain	Res	Type
34	2d	77	ASN
52	2v	213	HIS
34	2d	199	ASN
43	2m	77	ASN
52	2v	641	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2864/2915 (98%)	487 (17%)	28 (0%)

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2A	2791/2915 (95%)	494 (17%)	21 (0%)
2	1B	119/121 (98%)	15 (12%)	0
2	2B	118/121 (97%)	24 (20%)	0
31	1a	1495/1521 (98%)	231 (15%)	0
31	2a	1501/1521 (98%)	247 (16%)	0
54	1x	72/76 (94%)	31 (43%)	0
54	1y	72/76 (94%)	17 (23%)	0
54	2x	72/76 (94%)	29 (40%)	0
54	2y	72/76 (94%)	19 (26%)	0
55	1z	9/21 (42%)	5 (55%)	0
55	2z	9/21 (42%)	6 (66%)	0
All	All	9194/9460 (97%)	1605 (17%)	49 (0%)

5 of 1605 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	12	U
1	1A	13	A
1	1A	15	G
1	1A	27	G
1	1A	34	C

5 of 49 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2A	228	A
1	2A	900	A
1	2A	266	G
1	2A	528	A
1	2A	1210	A

5.4 Non-standard residues in protein, DNA, RNA chains

76 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
31	7MG	1a	527	56,31	23,26,27	1.30	3 (13%)	27,39,42	2.61	7 (25%)
54	MIA	2y	37	54	21,24,32	1.57	4 (19%)	30,35,47	1.99	9 (30%)
54	MIA	2x	37	54	21,24,32	1.59	4 (19%)	30,35,47	2.02	7 (23%)
1	PSU	1A	1911	1	18,21,22	1.39	4 (22%)	21,30,33	1.88	4 (19%)
1	5MC	2A	1942	1	19,22,23	1.44	3 (15%)	26,32,35	1.17	3 (11%)
54	PSU	1y	39	54	18,21,22	1.36	2 (11%)	21,30,33	2.13	4 (19%)
31	5MC	1a	967	31	19,22,23	1.64	2 (10%)	26,32,35	1.18	3 (11%)
1	PSU	1A	1917	1	18,21,22	1.42	2 (11%)	21,30,33	2.07	4 (19%)
1	PSU	2A	1917	56,1	18,21,22	1.46	2 (11%)	21,30,33	1.88	4 (19%)
31	4OC	1a	1402	31	20,23,24	0.77	0	25,32,35	0.99	1 (4%)
31	UR3	1a	1498	56,31	19,22,23	1.04	2 (10%)	26,32,35	1.70	4 (15%)
1	OMC	1A	1920	1	19,22,23	0.81	0	25,31,34	1.18	3 (12%)
54	5MU	1y	54	54	19,22,23	1.46	5 (26%)	27,32,35	2.13	7 (25%)
31	MA6	1a	1518	31	23,26,27	1.51	5 (21%)	33,38,41	2.23	13 (39%)
54	5MU	2y	54	54	19,22,23	1.43	5 (26%)	27,32,35	2.12	6 (22%)
54	PSU	1x	55	54	18,21,22	1.36	2 (11%)	21,30,33	2.11	5 (23%)
31	PSU	1a	516	56,31	18,21,22	1.38	3 (16%)	21,30,33	1.93	5 (23%)
1	OMG	2A	2251	56,1	23,26,27	1.24	3 (13%)	32,38,41	1.97	6 (18%)
1	2MA	2A	2503	56,1	22,25,26	1.46	5 (22%)	32,37,40	2.25	8 (25%)
1	PSU	2A	2605	56,1	18,21,22	1.39	2 (11%)	21,30,33	2.32	4 (19%)
31	5MC	1a	1404	31	19,22,23	1.71	3 (15%)	26,32,35	1.22	4 (15%)
31	M2G	1a	966	31	24,27,28	1.34	4 (16%)	33,40,43	1.89	6 (18%)
31	MA6	2a	1518	56,31	23,26,27	1.51	4 (17%)	33,38,41	2.38	12 (36%)
54	PSU	2x	39	54	18,21,22	1.31	2 (11%)	21,30,33	2.23	5 (23%)
54	PSU	2y	39	54	18,21,22	1.35	2 (11%)	21,30,33	1.95	3 (14%)
54	PSU	2x	55	54	18,21,22	1.37	2 (11%)	21,30,33	2.06	4 (19%)
1	5MU	1A	1915	1	19,22,23	1.41	6 (31%)	27,32,35	2.12	6 (22%)
54	5MU	2x	54	54	19,22,23	1.45	6 (31%)	27,32,35	1.96	5 (18%)
42	0TD	1l	92	42	8,9,10	4.48	2 (25%)	6,11,13	4.73	2 (33%)
31	4OC	2a	1402	31	20,23,24	0.79	0	25,32,35	1.02	1 (4%)
31	MA6	1a	1519	31	23,26,27	1.58	4 (17%)	33,38,41	2.33	13 (39%)
54	7MG	1x	46	54	23,26,27	1.28	3 (13%)	27,39,42	2.71	7 (25%)
54	PSU	2y	32	54	18,21,22	1.35	2 (11%)	21,30,33	1.98	4 (19%)
54	MIA	1x	37	54	21,24,32	1.65	3 (14%)	30,35,47	2.06	8 (26%)
31	5MC	2a	1404	31	19,22,23	1.72	3 (15%)	26,32,35	1.14	3 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
54	4SU	2x	8	54	18,21,22	1.75	4 (22%)	25,30,33	2.28	4 (16%)
1	2MU	2A	2552	1	19,22,24	1.27	4 (21%)	25,31,36	1.93	5 (20%)
54	PSU	1y	32	54	18,21,22	1.37	2 (11%)	21,30,33	1.86	3 (14%)
1	5MC	1A	1962	1	19,22,23	1.55	2 (10%)	26,32,35	1.17	3 (11%)
54	4SU	2y	8	54	18,21,22	1.84	4 (22%)	25,30,33	2.12	4 (16%)
1	5MU	2A	1939	1	19,22,23	1.37	5 (26%)	27,32,35	2.20	6 (22%)
1	OMC	2A	1920	1	19,22,23	0.77	0	25,31,34	0.82	0
31	7MG	2a	527	31	23,26,27	1.34	3 (13%)	27,39,42	2.59	7 (25%)
31	UR3	2a	1498	31	19,22,23	1.04	2 (10%)	26,32,35	1.75	2 (7%)
54	MIA	1y	37	54,31	21,24,32	1.61	4 (19%)	30,35,47	1.97	8 (26%)
54	PSU	1x	39	54	18,21,22	1.44	3 (16%)	21,30,33	2.01	4 (19%)
54	7MG	1y	46	54	23,26,27	1.29	4 (17%)	27,39,42	2.72	7 (25%)
31	5MC	2a	967	31	19,22,23	1.60	3 (15%)	26,32,35	1.15	3 (11%)
31	2MG	1a	1207	31	23,26,27	1.27	4 (17%)	33,38,41	2.24	8 (24%)
42	0TD	2l	92	42	8,9,10	4.55	2 (25%)	6,11,13	1.98	2 (33%)
1	PSU	2A	1911	56,1	18,21,22	1.43	3 (16%)	21,30,33	2.19	3 (14%)
1	5MU	2A	1915	56,1	19,22,23	1.53	4 (21%)	27,32,35	2.10	7 (25%)
54	PSU	1y	55	54	18,21,22	1.33	2 (11%)	21,30,33	2.10	3 (14%)
54	5MU	1x	54	54	19,22,23	1.37	5 (26%)	27,32,35	2.26	6 (22%)
31	2MG	2a	1207	31	23,26,27	1.25	3 (13%)	33,38,41	2.22	7 (21%)
31	PSU	2a	516	56,31	18,21,22	1.34	2 (11%)	21,30,33	1.97	3 (14%)
31	MA6	2a	1519	31	23,26,27	1.58	4 (17%)	33,38,41	2.33	12 (36%)
1	5MU	1A	1939	1	19,22,23	1.49	5 (26%)	27,32,35	2.13	7 (25%)
1	5MC	1A	1942	1	19,22,23	1.67	3 (15%)	26,32,35	1.35	5 (19%)
54	PSU	2y	55	54	18,21,22	1.34	2 (11%)	21,30,33	2.07	3 (14%)
54	4SU	1y	8	54	18,21,22	1.93	5 (27%)	25,30,33	2.27	5 (20%)
31	M2G	2a	966	31	24,27,28	1.33	4 (16%)	33,40,43	1.89	6 (18%)
1	OMG	1A	2251	56,1	23,26,27	1.32	3 (13%)	32,38,41	2.05	9 (28%)
1	2MA	1A	2503	56,1	22,25,26	1.54	4 (18%)	32,37,40	2.36	8 (25%)
31	5MC	1a	1400	31	19,22,23	1.67	3 (15%)	26,32,35	1.14	2 (7%)
54	4SU	1x	8	54,56	18,21,22	1.69	4 (22%)	25,30,33	2.47	8 (32%)
54	PSU	1x	32	54,56	18,21,22	1.40	2 (11%)	21,30,33	1.99	3 (14%)
31	5MC	1a	1407	31	19,22,23	1.62	2 (10%)	26,32,35	1.03	1 (3%)
54	7MG	2y	46	54	23,26,27	1.32	4 (17%)	27,39,42	2.67	7 (25%)
31	5MC	2a	1400	31	19,22,23	1.54	2 (10%)	26,32,35	1.11	3 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	2A	1962	1	19,22,23	1.44	2 (10%)	26,32,35	1.13	3 (11%)
1	2MU	1A	2552	56,1	19,22,24	1.32	4 (21%)	25,31,36	2.04	4 (16%)
1	PSU	1A	2605	1	18,21,22	1.45	3 (16%)	21,30,33	2.10	4 (19%)
31	5MC	2a	1407	56,31	19,22,23	1.58	2 (10%)	26,32,35	1.06	2 (7%)
54	PSU	2x	32	54,56	18,21,22	1.37	2 (11%)	21,30,33	2.10	5 (23%)
54	7MG	2x	46	54	23,26,27	1.29	4 (17%)	27,39,42	2.76	7 (25%)

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
31	7MG	1a	527	56,31	-	2/7/37/38	0/3/3/3
54	MIA	2y	37	54	-	3/7/25/34	0/3/3/3
54	MIA	2x	37	54	-	3/7/25/34	0/3/3/3
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
54	PSU	1y	39	54	-	0/7/25/26	0/2/2/2
31	5MC	1a	967	31	-	0/7/25/26	0/2/2/2
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	56,1	-	5/7/25/26	0/2/2/2
31	4OC	1a	1402	31	-	2/9/29/30	0/2/2/2
31	UR3	1a	1498	56,31	-	0/7/25/26	0/2/2/2
1	OMC	1A	1920	1	-	1/9/27/28	0/2/2/2
54	5MU	1y	54	54	-	0/7/25/26	0/2/2/2
31	MA6	1a	1518	31	-	3/11/29/30	0/3/3/3
54	5MU	2y	54	54	-	0/7/25/26	0/2/2/2
54	PSU	1x	55	54	-	1/7/25/26	0/2/2/2
31	PSU	1a	516	56,31	-	0/7/25/26	0/2/2/2
1	OMG	2A	2251	56,1	-	0/9/27/28	0/3/3/3
1	2MA	2A	2503	56,1	-	2/7/25/26	0/3/3/3
1	PSU	2A	2605	56,1	-	0/7/25/26	0/2/2/2
31	5MC	1a	1404	31	-	0/7/25/26	0/2/2/2
31	M2G	1a	966	31	-	0/11/29/30	0/3/3/3
31	MA6	2a	1518	56,31	-	2/11/29/30	0/3/3/3
54	PSU	2x	39	54	-	2/7/25/26	0/2/2/2
54	PSU	2y	39	54	-	0/7/25/26	0/2/2/2
54	PSU	2x	55	54	-	1/7/25/26	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MU	1A	1915	1	-	2/7/25/26	0/2/2/2
54	5MU	2x	54	54	-	1/7/25/26	0/2/2/2
42	0TD	1l	92	42	-	3/7/12/14	-
31	4OC	2a	1402	31	-	2/9/29/30	0/2/2/2
31	MA6	1a	1519	31	-	3/11/29/30	0/3/3/3
54	7MG	1x	46	54	-	1/7/37/38	0/3/3/3
54	PSU	2y	32	54	-	0/7/25/26	0/2/2/2
54	MIA	1x	37	54	-	2/7/25/34	0/3/3/3
31	5MC	2a	1404	31	-	0/7/25/26	0/2/2/2
54	4SU	2x	8	54	-	2/7/25/26	0/2/2/2
1	2MU	2A	2552	1	-	0/9/27/28	0/2/2/2
54	PSU	1y	32	54	-	1/7/25/26	0/2/2/2
1	5MC	1A	1962	1	-	0/7/25/26	0/2/2/2
54	4SU	2y	8	54	-	0/7/25/26	0/2/2/2
1	5MU	2A	1939	1	-	0/7/25/26	0/2/2/2
1	OMC	2A	1920	1	-	0/9/27/28	0/2/2/2
31	7MG	2a	527	31	-	2/7/37/38	0/3/3/3
31	UR3	2a	1498	31	-	0/7/25/26	0/2/2/2
54	MIA	1y	37	54,31	-	3/7/25/34	0/3/3/3
54	PSU	1x	39	54	-	2/7/25/26	0/2/2/2
54	7MG	1y	46	54	-	5/7/37/38	0/3/3/3
31	5MC	2a	967	31	-	1/7/25/26	0/2/2/2
31	2MG	1a	1207	31	-	0/9/27/28	0/3/3/3
42	0TD	2l	92	42	-	2/7/12/14	-
1	PSU	2A	1911	56,1	-	1/7/25/26	0/2/2/2
1	5MU	2A	1915	56,1	-	0/7/25/26	0/2/2/2
54	PSU	1y	55	54	-	0/7/25/26	0/2/2/2
54	5MU	1x	54	54	-	2/7/25/26	0/2/2/2
31	2MG	2a	1207	31	-	1/9/27/28	0/3/3/3
31	PSU	2a	516	56,31	-	1/7/25/26	0/2/2/2
31	MA6	2a	1519	31	-	5/11/29/30	0/3/3/3
1	5MU	1A	1939	1	-	1/7/25/26	0/2/2/2
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
54	PSU	2y	55	54	-	0/7/25/26	0/2/2/2
54	4SU	1y	8	54	-	0/7/25/26	0/2/2/2
31	M2G	2a	966	31	-	0/11/29/30	0/3/3/3
1	OMG	1A	2251	56,1	-	0/9/27/28	0/3/3/3
1	2MA	1A	2503	56,1	-	4/7/25/26	0/3/3/3
31	5MC	1a	1400	31	-	0/7/25/26	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
54	4SU	1x	8	54,56	-	4/7/25/26	0/2/2/2
54	PSU	1x	32	54,56	-	2/7/25/26	0/2/2/2
31	5MC	1a	1407	31	-	0/7/25/26	0/2/2/2
54	7MG	2y	46	54	-	4/7/37/38	0/3/3/3
31	5MC	2a	1400	31	-	4/7/25/26	0/2/2/2
1	5MC	2A	1962	1	-	0/7/25/26	0/2/2/2
1	2MU	1A	2552	56,1	-	1/9/27/28	0/2/2/2
1	PSU	1A	2605	1	-	0/7/25/26	0/2/2/2
31	5MC	2a	1407	56,31	-	0/7/25/26	0/2/2/2
54	PSU	2x	32	54,56	-	0/7/25/26	0/2/2/2
54	7MG	2x	46	54	-	1/7/37/38	0/3/3/3

The worst 5 of 233 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	1l	92	0TD	CB-SB	-12.12	1.70	1.82
42	2l	92	0TD	CB-SB	-12.11	1.70	1.82
31	2a	1404	5MC	C5-C4	6.43	1.49	1.44
31	1a	1404	5MC	C5-C4	6.25	1.48	1.44
1	1A	1942	5MC	C5-C4	6.15	1.48	1.44

The worst 5 of 389 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	1l	92	0TD	CSB-SB-CB	-11.06	82.48	102.36
54	1y	46	7MG	N9-C4-N3	9.32	139.12	125.46
54	2y	46	7MG	N9-C4-N3	9.26	139.03	125.46
54	2x	46	7MG	N9-C4-N3	9.05	138.72	125.46
31	1a	527	7MG	N9-C4-N3	8.90	138.50	125.46

There are no chirality outliers.

5 of 90 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
42	1l	92	0TD	CA-CB-SB-CSB
42	1l	92	0TD	CG-CB-SB-CSB
42	2l	92	0TD	SB-CB-CG-OD1
1	2A	1917	PSU	C2'-C1'-C5-C4
1	2A	1917	PSU	C2'-C1'-C5-C6

There are no ring outliers.

39 monomers are involved in 74 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
54	2y	37	MIA	1	0
54	2x	37	MIA	1	0
1	1A	1911	PSU	2	0
1	2A	1942	5MC	2	0
54	1y	39	PSU	2	0
31	1a	967	5MC	2	0
1	2A	1917	PSU	2	0
31	1a	1402	4OC	2	0
31	1a	1498	UR3	1	0
1	1A	1920	OMC	2	0
31	1a	1518	MA6	5	0
1	2A	2251	OMG	1	0
1	2A	2503	2MA	2	0
31	1a	1404	5MC	1	0
31	1a	966	M2G	2	0
31	2a	1518	MA6	3	0
1	1A	1915	5MU	1	0
42	1l	92	0TD	1	0
31	2a	1402	4OC	2	0
31	1a	1519	MA6	4	0
1	2A	2552	2MU	2	0
1	2A	1920	OMC	1	0
54	1y	37	MIA	1	0
54	1x	39	PSU	1	0
31	2a	967	5MC	4	0
31	1a	1207	2MG	5	0
1	2A	1911	PSU	2	0
31	2a	1519	MA6	2	0
1	1A	1939	5MU	2	0
54	2y	55	PSU	1	0
31	2a	966	M2G	3	0
1	1A	2251	OMG	3	0
1	1A	2503	2MA	6	0
54	1x	8	4SU	3	0
54	2y	46	7MG	1	0
31	2a	1400	5MC	1	0
1	2A	1962	5MC	2	0
1	1A	2552	2MU	1	0
54	2x	32	PSU	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2890 ligands modelled in this entry, 2886 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	$\# Z > 2$
59	GDP	1v	704	56	29,30,30	1.16	3 (10%)	45,47,47	1.79	6 (13%)
58	SF4	1d	304	34	0,12,12	-	-	-		
59	GDP	2v	704	-	29,30,30	1.14	2 (6%)	45,47,47	1.74	6 (13%)
58	SF4	2d	303	34	0,12,12	-	-	-		

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
59	GDP	1v	704	56	-	0/16/32/32	0/3/3/3
58	SF4	1d	304	34	-	-	0/6/5/5
59	GDP	2v	704	-	-	5/16/32/32	0/3/3/3
58	SF4	2d	303	34	-	-	0/6/5/5

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	2v	704	GDP	C5-C4	3.21	1.47	1.38
59	1v	704	GDP	C5-C4	3.09	1.47	1.38
59	1v	704	GDP	C6-N1	-2.49	1.34	1.38
59	2v	704	GDP	C6-N1	-2.39	1.34	1.38
59	1v	704	GDP	C5-N7	-2.19	1.34	1.39

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	1v	704	GDP	C5-C4-N3	-6.22	118.49	128.39
59	2v	704	GDP	C5-C4-N3	-5.85	119.07	128.39
59	1v	704	GDP	C2-N3-C4	5.09	121.07	112.30
59	2v	704	GDP	C2-N3-C4	4.80	120.56	112.30
59	1v	704	GDP	N9-C4-N3	4.38	134.70	125.95

There are no chirality outliers.

All (5) torsion outliers are listed below:

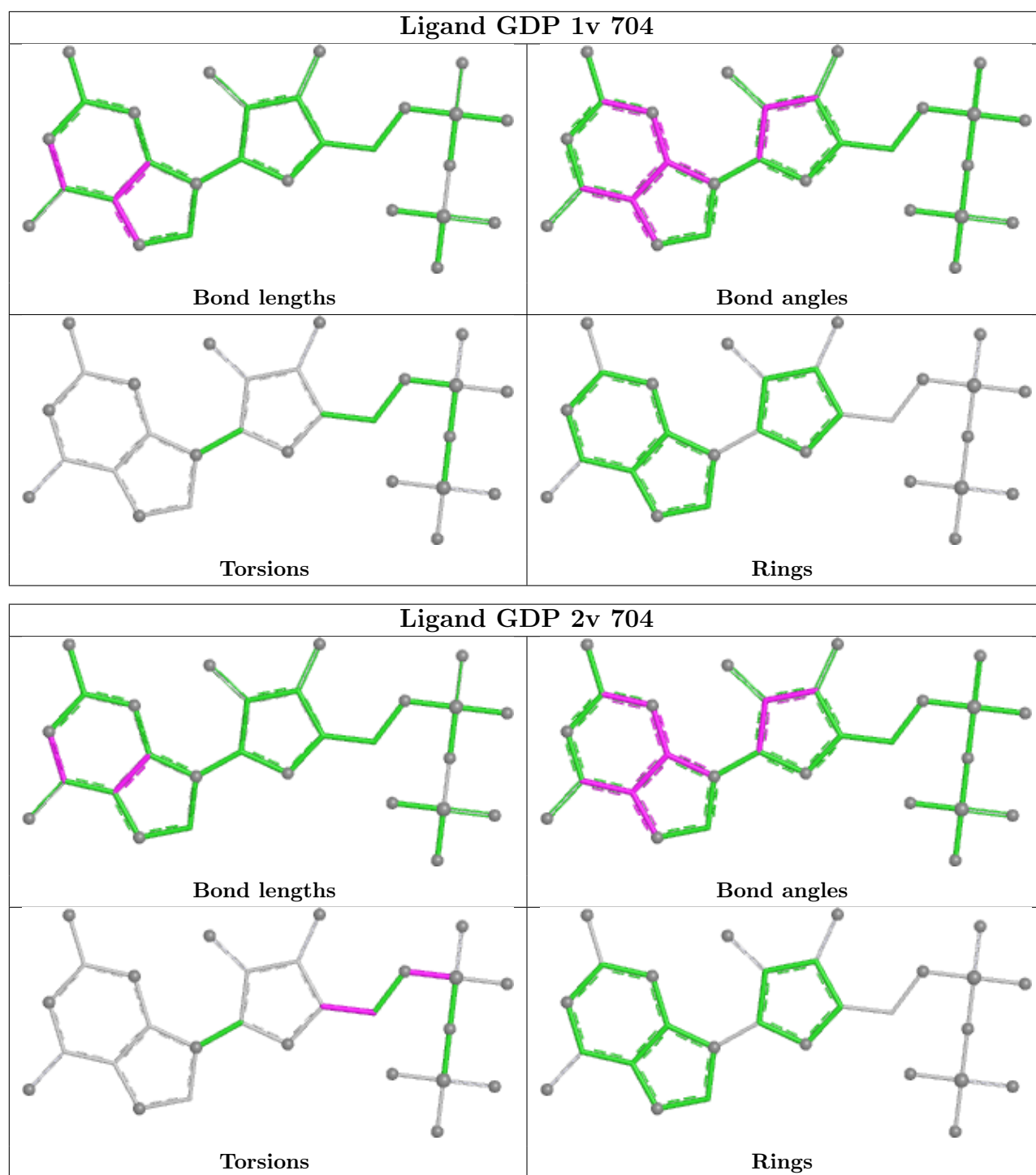
Mol	Chain	Res	Type	Atoms
59	2v	704	GDP	C5'-O5'-PA-O3A
59	2v	704	GDP	C5'-O5'-PA-O1A
59	2v	704	GDP	O4'-C4'-C5'-O5'
59	2v	704	GDP	C3'-C4'-C5'-O5'
59	2v	704	GDP	C5'-O5'-PA-O2A

There are no ring outliers.

4 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
59	1v	704	GDP	3	0
58	1d	304	SF4	2	0
59	2v	704	GDP	2	0
58	2d	303	SF4	1	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 than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

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, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	1A	2860/2915 (98%)	-0.46	13 (0%) 87 68	54, 75, 190, 283	0
1	2A	2789/2915 (95%)	-0.23	14 (0%) 87 68	84, 119, 191, 306	0
2	1B	120/121 (99%)	-0.56	0 100 100	71, 95, 113, 126	0
2	2B	120/121 (99%)	-0.07	0 100 100	132, 165, 184, 198	0
3	1D	275/276 (99%)	-0.08	1 (0%) 88 72	62, 80, 92, 98	0
3	2D	275/276 (99%)	0.13	9 (3%) 49 28	89, 102, 117, 121	0
4	1E	204/206 (99%)	-0.14	2 (0%) 79 56	60, 81, 94, 100	0
4	2E	204/206 (99%)	0.07	2 (0%) 79 56	96, 125, 137, 142	0
5	1F	203/210 (96%)	-0.21	2 (0%) 79 56	55, 82, 100, 109	0
5	2F	203/210 (96%)	0.01	1 (0%) 87 68	94, 141, 155, 160	0
6	1G	181/182 (99%)	-0.01	1 (0%) 85 65	105, 135, 158, 175	0
6	2G	181/182 (99%)	0.19	1 (0%) 85 65	175, 205, 219, 227	0
7	1H	174/180 (96%)	-0.24	0 100 100	80, 88, 97, 101	0
7	2H	174/180 (96%)	-0.07	1 (0%) 85 65	150, 166, 181, 184	0
8	1N	140/140 (100%)	-0.08	1 (0%) 84 63	64, 73, 84, 90	0
8	2N	140/140 (100%)	0.09	1 (0%) 84 63	113, 128, 139, 141	0
9	1O	122/122 (100%)	-0.16	0 100 100	74, 85, 96, 100	0
9	2O	122/122 (100%)	0.07	1 (0%) 82 60	108, 121, 131, 132	0
10	1P	149/150 (99%)	-0.11	1 (0%) 84 63	55, 82, 104, 111	0
10	2P	149/150 (99%)	0.05	3 (2%) 65 39	102, 134, 149, 151	0
11	1Q	141/141 (100%)	-0.08	0 100 100	64, 79, 89, 101	0
11	2Q	141/141 (100%)	0.22	2 (1%) 73 48	108, 134, 150, 153	0
12	1R	118/118 (100%)	-0.07	1 (0%) 82 60	64, 72, 81, 84	0
12	2R	118/118 (100%)	0.30	3 (2%) 58 35	96, 112, 122, 126	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	1S	110/112 (98%)	-0.17	0 100 100	83, 90, 97, 100	0
13	2S	110/112 (98%)	0.22	4 (3%) 46 25	147, 159, 166, 168	0
14	1T	131/146 (89%)	-0.07	2 (1%) 72 47	79, 89, 111, 118	0
14	2T	131/146 (89%)	0.00	1 (0%) 82 60	120, 128, 143, 148	0
15	1U	116/118 (98%)	-0.17	0 100 100	58, 65, 73, 75	0
15	2U	116/118 (98%)	0.16	4 (3%) 48 27	105, 125, 137, 139	0
16	1V	101/101 (100%)	-0.29	0 100 100	55, 74, 81, 83	0
16	2V	101/101 (100%)	-0.04	4 (3%) 42 23	106, 138, 144, 148	0
17	1W	112/113 (99%)	-0.09	0 100 100	60, 65, 81, 91	0
17	2W	112/113 (99%)	-0.05	0 100 100	88, 99, 107, 117	0
18	1X	95/96 (98%)	-0.09	1 (1%) 78 54	71, 76, 84, 88	0
18	2X	95/96 (98%)	0.13	0 100 100	102, 110, 118, 129	0
19	1Y	107/110 (97%)	-0.18	1 (0%) 81 58	78, 83, 90, 101	0
19	2Y	107/110 (97%)	0.23	3 (2%) 55 32	118, 137, 145, 147	0
20	1Z	204/206 (99%)	-0.25	1 (0%) 87 68	83, 99, 113, 123	0
20	2Z	204/206 (99%)	-0.01	1 (0%) 87 68	127, 157, 174, 179	0
21	10	75/85 (88%)	-0.19	0 100 100	68, 74, 81, 85	0
21	20	75/85 (88%)	0.26	2 (2%) 56 33	118, 129, 139, 144	0
22	11	97/98 (98%)	0.10	1 (1%) 79 56	67, 82, 107, 111	0
22	21	97/98 (98%)	0.49	3 (3%) 51 29	106, 124, 149, 156	0
23	12	70/72 (97%)	-0.02	0 100 100	82, 87, 97, 104	0
23	22	70/72 (97%)	-0.02	3 (4%) 40 21	119, 132, 140, 141	0
24	13	59/60 (98%)	-0.15	0 100 100	63, 71, 83, 90	0
24	23	59/60 (98%)	0.24	1 (1%) 69 43	122, 130, 133, 135	0
25	14	69/71 (97%)	-0.27	0 100 100	123, 162, 237, 238	0
25	24	69/71 (97%)	0.02	0 100 100	195, 221, 254, 255	0
26	15	59/60 (98%)	-0.18	1 (1%) 69 43	57, 73, 77, 79	0
26	25	59/60 (98%)	-0.17	1 (1%) 69 43	92, 114, 120, 121	0
27	16	53/54 (98%)	-0.18	0 100 100	74, 80, 83, 85	0
27	26	53/54 (98%)	0.02	1 (1%) 66 41	123, 130, 134, 147	0
28	17	48/49 (97%)	0.06	0 100 100	60, 63, 71, 73	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	27	48/49 (97%)	0.29	0 100 100	85, 96, 100, 101	0
29	18	64/65 (98%)	0.20	0 100 100	63, 70, 76, 78	0
29	28	64/65 (98%)	0.64	4 (6%) 26 15	114, 119, 128, 133	0
30	19	37/37 (100%)	0.09	0 100 100	77, 79, 81, 83	0
30	29	37/37 (100%)	0.99	8 (21%) 2 3	133, 141, 149, 152	0
31	1a	1487/1521 (97%)	-0.20	6 (0%) 88 72	90, 142, 235, 306	0
31	2a	1491/1521 (98%)	0.01	11 (0%) 84 63	117, 163, 259, 294	0
32	1b	231/256 (90%)	-0.09	3 (1%) 75 50	157, 172, 189, 196	0
32	2b	231/256 (90%)	0.02	2 (0%) 81 58	185, 199, 223, 234	0
33	1c	206/239 (86%)	-0.05	2 (0%) 79 56	185, 200, 218, 220	0
33	2c	206/239 (86%)	0.16	4 (1%) 66 41	216, 231, 246, 248	0
34	1d	208/209 (99%)	0.19	7 (3%) 48 27	137, 149, 154, 155	0
34	2d	208/209 (99%)	0.26	8 (3%) 44 24	140, 164, 167, 169	0
35	1e	148/162 (91%)	-0.04	0 100 100	127, 141, 148, 153	0
35	2e	148/162 (91%)	0.17	5 (3%) 48 27	157, 171, 185, 190	0
36	1f	100/101 (99%)	-0.38	0 100 100	132, 138, 147, 153	0
36	2f	100/101 (99%)	-0.16	0 100 100	143, 148, 155, 160	0
37	1g	155/156 (99%)	0.12	2 (1%) 75 50	175, 205, 212, 215	0
37	2g	155/156 (99%)	0.26	3 (1%) 66 41	201, 227, 234, 238	0
38	1h	137/138 (99%)	0.08	2 (1%) 72 47	125, 138, 147, 157	0
38	2h	137/138 (99%)	0.32	6 (4%) 39 21	153, 163, 173, 185	0
39	1i	127/128 (99%)	0.56	14 (11%) 10 7	182, 221, 226, 229	0
39	2i	127/128 (99%)	0.68	13 (10%) 12 8	213, 246, 251, 252	0
40	1j	97/105 (92%)	0.50	7 (7%) 21 14	199, 222, 226, 227	0
40	2j	96/105 (91%)	0.34	5 (5%) 33 19	229, 244, 251, 252	0
41	1k	114/129 (88%)	-0.22	3 (2%) 57 33	116, 144, 150, 157	0
41	2k	114/129 (88%)	0.01	2 (1%) 67 42	134, 161, 170, 176	0
42	1l	121/132 (91%)	0.36	6 (4%) 34 19	116, 130, 138, 140	0
42	2l	121/132 (91%)	0.52	4 (3%) 49 28	144, 153, 162, 166	0
43	1m	118/126 (93%)	0.30	7 (5%) 28 16	201, 226, 227, 229	0
43	2m	122/126 (96%)	0.17	3 (2%) 58 35	222, 242, 245, 247	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1n	60/61 (98%)	0.54	3 (5%) 34 19	207, 215, 227, 228	0
44	2n	60/61 (98%)	0.54	2 (3%) 49 28	234, 239, 249, 250	0
45	1o	88/89 (98%)	-0.08	0 100 100	116, 128, 133, 135	0
45	2o	88/89 (98%)	0.15	5 (5%) 29 17	136, 148, 153, 154	0
46	1p	82/88 (93%)	0.26	1 (1%) 76 52	135, 146, 154, 159	0
46	2p	82/88 (93%)	0.56	2 (2%) 59 35	152, 160, 168, 176	0
47	1q	99/105 (94%)	0.20	2 (2%) 65 39	116, 125, 131, 134	0
47	2q	99/105 (94%)	0.31	7 (7%) 22 14	138, 151, 155, 156	0
48	1r	68/88 (77%)	-0.40	0 100 100	133, 139, 143, 147	0
48	2r	68/88 (77%)	-0.09	1 (1%) 72 47	147, 154, 159, 160	0
49	1s	83/93 (89%)	0.49	5 (6%) 27 16	213, 234, 238, 239	0
49	2s	83/93 (89%)	0.58	6 (7%) 21 14	235, 252, 255, 255	0
50	1t	96/106 (90%)	0.66	11 (11%) 9 6	136, 144, 148, 149	0
50	2t	96/106 (90%)	0.89	16 (16%) 4 4	152, 157, 163, 165	0
51	1u	23/27 (85%)	1.21	5 (21%) 2 3	217, 220, 226, 227	0
51	2u	23/27 (85%)	2.21	10 (43%) 0 1	239, 242, 244, 244	0
52	1v	728/758 (96%)	-0.08	9 (1%) 76 52	30, 144, 211, 217	0
52	2v	728/758 (96%)	0.07	7 (0%) 79 56	30, 197, 259, 264	0
53	1w	185/185 (100%)	-0.17	1 (0%) 87 68	87, 118, 158, 166	0
53	2w	185/185 (100%)	0.03	1 (0%) 87 68	123, 157, 206, 217	0
54	1x	67/76 (88%)	0.08	0 100 100	91, 195, 204, 206	0
54	1y	67/76 (88%)	-0.18	1 (1%) 72 47	74, 212, 238, 247	0
54	2x	67/76 (88%)	0.40	6 (8%) 15 10	124, 232, 243, 245	0
54	2y	67/76 (88%)	0.47	2 (2%) 52 30	118, 252, 277, 282	0
55	1z	10/21 (47%)	0.67	0 100 100	150, 157, 164, 164	0
55	2z	10/21 (47%)	1.03	1 (10%) 12 8	181, 185, 203, 204	0
All	All	22334/23178 (96%)	-0.06	336 (1%) 72 47	30, 134, 241, 306	0

The worst 5 of 336 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
51	2u	2	GLY	8.5
22	11	2	SER	8.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
40	1j	62	HIS	6.8
51	2u	16	GLY	6.3
22	21	2	SER	6.1

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
54	5MU	2x	54	21/22	0.00	0.12	237,237,237,237	0
54	7MG	1x	46	24/25	0.28	0.13	203,203,203,203	0
54	7MG	2x	46	24/25	0.33	0.10	241,241,241,241	0
54	5MU	2y	54	21/22	0.36	0.11	276,276,276,276	0
54	PSU	2x	55	20/21	0.38	0.10	240,240,240,240	0
54	PSU	2y	32	20/21	0.40	0.12	220,220,220,220	0
54	5MU	1y	54	21/22	0.48	0.08	236,236,236,236	0
54	7MG	2y	46	24/25	0.52	0.09	261,261,261,261	0
54	MIA	2y	37	22/30	0.54	0.15	208,208,208,208	0
54	PSU	2y	55	20/21	0.54	0.09	279,279,279,279	0
54	PSU	1y	32	20/21	0.55	0.12	188,188,188,188	0
31	5MC	2a	967	21/22	0.58	0.12	216,216,216,216	0
54	PSU	2x	32	20/21	0.60	0.12	214,214,214,214	0
54	MIA	1y	37	22/30	0.62	0.12	175,175,175,175	0
54	4SU	2y	8	20/21	0.66	0.08	259,259,259,259	0
54	7MG	1y	46	24/25	0.67	0.09	222,222,222,222	0
54	PSU	2y	39	20/21	0.67	0.11	212,212,212,212	0
54	4SU	1x	8	20/21	0.68	0.08	199,199,199,199	0
54	PSU	1x	55	20/21	0.69	0.09	194,194,194,194	0
1	5MU	1A	1915	21/22	0.69	0.10	142,142,142,142	0
1	5MU	2A	1915	21/22	0.69	0.08	169,169,169,169	0
1	PSU	2A	1911	20/21	0.70	0.09	158,158,158,158	0
54	5MU	1x	54	21/22	0.70	0.09	193,193,193,193	0
54	MIA	1x	37	22/30	0.72	0.14	163,163,163,163	0
31	2MG	2a	1207	24/25	0.74	0.10	232,232,232,232	0
54	PSU	2x	39	20/21	0.74	0.14	204,204,204,204	0
54	4SU	2x	8	20/21	0.75	0.07	239,239,239,239	0
1	PSU	1A	1917	20/21	0.76	0.09	138,138,138,138	0
54	PSU	1y	55	20/21	0.76	0.06	240,240,240,240	0
31	PSU	1a	516	20/21	0.77	0.08	144,144,144,144	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
54	MIA	2x	37	22/30	0.78	0.11	192,192,192,192	0
54	PSU	1x	32	20/21	0.78	0.10	184,184,184,184	0
1	PSU	1A	1911	20/21	0.78	0.11	130,130,130,130	0
1	PSU	2A	1917	20/21	0.78	0.07	164,164,164,164	0
54	PSU	1x	39	20/21	0.80	0.08	173,173,173,173	0
54	4SU	1y	8	20/21	0.81	0.07	217,217,217,217	0
31	2MG	1a	1207	24/25	0.81	0.09	209,209,209,209	0
31	M2G	2a	966	25/26	0.82	0.14	211,211,211,211	0
54	PSU	1y	39	20/21	0.83	0.07	177,177,177,177	0
31	5MC	2a	1407	21/22	0.83	0.13	157,157,157,157	0
31	PSU	2a	516	20/21	0.83	0.07	166,166,166,166	0
31	5MC	1a	1407	21/22	0.84	0.15	129,129,129,129	0
31	UR3	2a	1498	21/22	0.86	0.11	158,158,158,158	0
1	5MU	1A	1939	21/22	0.89	0.12	74,74,74,74	0
1	5MC	2A	1962	21/22	0.89	0.09	112,112,112,112	0
1	OMC	1A	1920	21/22	0.89	0.09	126,126,126,126	0
1	2MA	1A	2503	23/24	0.90	0.17	58,58,58,58	0
31	5MC	2a	1400	21/22	0.90	0.15	182,182,182,182	0
31	4OC	2a	1402	22/23	0.90	0.10	165,165,165,165	0
31	5MC	2a	1404	21/22	0.90	0.12	156,156,156,156	0
1	OMC	2A	1920	21/22	0.90	0.07	153,153,153,153	0
31	M2G	1a	966	25/26	0.91	0.11	184,184,184,184	0
1	OMG	2A	2251	24/25	0.91	0.09	106,106,106,106	0
42	0TD	2l	92	10/11	0.91	0.14	155,155,155,155	0
42	0TD	1l	92	10/11	0.92	0.12	132,132,132,132	0
31	5MC	1a	1400	21/22	0.92	0.10	153,153,153,153	0
31	5MC	1a	967	21/22	0.92	0.10	188,188,188,188	0
1	PSU	2A	2605	20/21	0.93	0.12	95,95,95,95	0
31	UR3	1a	1498	21/22	0.93	0.09	133,133,133,133	0
1	5MC	1A	1962	21/22	0.93	0.08	81,81,81,81	0
31	MA6	2a	1518	24/25	0.93	0.12	149,149,149,149	0
1	PSU	1A	2605	20/21	0.94	0.10	69,69,69,69	0
31	MA6	2a	1519	24/25	0.94	0.12	148,148,148,148	0
31	7MG	1a	527	24/25	0.94	0.09	133,133,133,133	0
1	5MC	2A	1942	21/22	0.94	0.08	112,112,112,112	0
1	2MU	2A	2552	21/23	0.94	0.07	105,105,105,105	0
31	7MG	2a	527	24/25	0.95	0.08	155,155,155,155	0
1	2MA	2A	2503	23/24	0.95	0.13	95,95,95,95	0
1	2MU	1A	2552	21/23	0.95	0.07	71,71,71,71	0
1	5MC	1A	1942	21/22	0.95	0.07	81,81,81,81	0
31	4OC	1a	1402	22/23	0.95	0.10	134,134,134,134	0
1	5MU	2A	1939	21/22	0.95	0.08	101,101,101,101	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
31	5MC	1a	1404	21/22	0.95	0.09	126,126,126,126	0
31	MA6	1a	1519	24/25	0.96	0.10	122,122,122,122	0
1	OMG	1A	2251	24/25	0.96	0.07	62,62,62,62	0
31	MA6	1a	1518	24/25	0.97	0.09	123,123,123,123	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($\text{\AA}^2$)	Q<0.9
56	MG	2i	201	1/1	-0.71	0.23	245,245,245,245	0
56	MG	2a	1767	1/1	-0.67	0.26	276,276,276,276	0
56	MG	2x	108	1/1	-0.66	0.25	245,245,245,245	0
56	MG	2g	203	1/1	-0.64	0.20	214,214,214,214	0
56	MG	1m	201	1/1	-0.61	0.23	216,216,216,216	0
56	MG	2a	1786	1/1	-0.58	0.21	234,234,234,234	0
56	MG	1A	5052	1/1	-0.58	0.18	267,267,267,267	0
56	MG	2a	1766	1/1	-0.57	0.25	261,261,261,261	0
56	MG	2y	108	1/1	-0.57	0.29	245,245,245,245	0
56	MG	2a	1758	1/1	-0.51	0.39	205,205,205,205	0
56	MG	2a	1776	1/1	-0.47	0.33	197,197,197,197	0
56	MG	2v	701	1/1	-0.45	0.25	171,171,171,171	0
56	MG	2y	109	1/1	-0.45	0.25	247,247,247,247	0
56	MG	1a	1684	1/1	-0.43	0.28	202,202,202,202	0
56	MG	2a	1791	1/1	-0.42	0.20	239,239,239,239	0
56	MG	2a	1770	1/1	-0.39	0.19	237,237,237,237	0
56	MG	1a	1844	1/1	-0.37	0.18	270,270,270,270	0
56	MG	2a	1905	1/1	-0.37	0.19	218,218,218,218	0
56	MG	2a	1785	1/1	-0.32	0.21	228,228,228,228	0
56	MG	2a	1801	1/1	-0.32	0.35	215,215,215,215	0
56	MG	1n	101	1/1	-0.32	0.26	207,207,207,207	0
56	MG	2m	202	1/1	-0.31	0.18	230,230,230,230	0
56	MG	2m	201	1/1	-0.29	0.29	166,166,166,166	0
56	MG	2A	3759	1/1	-0.26	0.17	232,232,232,232	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2y	104	1/1	-0.26	0.17	248,248,248,248	0
56	MG	1a	1863	1/1	-0.25	0.44	215,215,215,215	0
56	MG	2a	1765	1/1	-0.25	0.22	250,250,250,250	0
56	MG	1a	1677	1/1	-0.24	0.34	157,157,157,157	0
56	MG	1a	1843	1/1	-0.24	0.20	281,281,281,281	0
56	MG	2A	3573	1/1	-0.24	0.20	282,282,282,282	0
56	MG	2g	202	1/1	-0.22	0.51	185,185,185,185	0
56	MG	1a	1826	1/1	-0.22	0.22	196,196,196,196	0
56	MG	2s	102	1/1	-0.21	0.27	247,247,247,247	0
56	MG	2a	1761	1/1	-0.21	0.29	210,210,210,210	0
56	MG	2a	1684	1/1	-0.21	0.22	161,161,161,161	0
56	MG	2u	101	1/1	-0.20	0.24	221,221,221,221	0
56	MG	2a	1620	1/1	-0.20	0.23	151,151,151,151	0
56	MG	2a	1760	1/1	-0.19	0.23	220,220,220,220	0
56	MG	2A	3597	1/1	-0.17	0.37	120,120,120,120	0
56	MG	2a	1768	1/1	-0.15	0.30	260,260,260,260	0
56	MG	2x	103	1/1	-0.14	0.34	192,192,192,192	0
56	MG	2a	1903	1/1	-0.12	0.19	246,246,246,246	0
56	MG	2A	3246	1/1	-0.11	0.28	153,153,153,153	0
56	MG	2B	214	1/1	-0.08	0.16	145,145,145,145	0
56	MG	2a	1774	1/1	-0.07	0.21	220,220,220,220	0
56	MG	2a	1769	1/1	-0.07	0.19	269,269,269,269	0
56	MG	2y	103	1/1	-0.07	0.27	223,223,223,223	0
56	MG	2a	1669	1/1	-0.06	0.36	140,140,140,140	0
56	MG	2a	1902	1/1	-0.06	0.18	248,248,248,248	0
56	MG	2A	3397	1/1	-0.04	0.19	189,189,189,189	0
56	MG	2A	3675	1/1	-0.04	0.38	123,123,123,123	0
56	MG	2a	1681	1/1	-0.04	0.23	165,165,165,165	0
56	MG	2g	205	1/1	-0.03	0.27	211,211,211,211	0
56	MG	2a	1609	1/1	-0.01	0.60	138,138,138,138	0
56	MG	2A	3250	1/1	-0.01	0.32	158,158,158,158	0
56	MG	2x	104	1/1	-0.00	0.26	219,219,219,219	0
56	MG	2y	106	1/1	0.00	0.14	263,263,263,263	0
56	MG	2a	1657	1/1	-0.00	0.28	138,138,138,138	0
56	MG	2B	203	1/1	-0.00	0.36	131,131,131,131	0
56	MG	2z	103	1/1	-0.00	0.35	179,179,179,179	0
56	MG	1a	1854	1/1	0.01	0.23	229,229,229,229	0
56	MG	1a	1838	1/1	0.02	0.17	231,231,231,231	0
56	MG	1A	5053	1/1	0.02	0.16	275,275,275,275	0
56	MG	2B	218	1/1	0.02	0.16	171,171,171,171	0
56	MG	2a	1688	1/1	0.02	0.25	153,153,153,153	0
56	MG	2i	204	1/1	0.03	0.17	241,241,241,241	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2B	230	1/1	0.03	0.23	151,151,151,151	0
56	MG	1a	1852	1/1	0.03	0.20	224,224,224,224	0
56	MG	2a	1910	1/1	0.04	0.23	240,240,240,240	0
56	MG	2a	1853	1/1	0.04	0.24	269,269,269,269	0
56	MG	1a	1822	1/1	0.04	0.22	215,215,215,215	0
56	MG	1a	1777	1/1	0.04	0.16	128,128,128,128	0
56	MG	1y	106	1/1	0.04	0.19	173,173,173,173	0
56	MG	1a	1832	1/1	0.05	0.28	189,189,189,189	0
56	MG	2a	1602	1/1	0.05	0.30	151,151,151,151	0
56	MG	2A	3831	1/1	0.07	0.36	128,128,128,128	0
56	MG	2a	1622	1/1	0.08	0.25	156,156,156,156	0
56	MG	1a	1805	1/1	0.09	0.31	140,140,140,140	0
56	MG	1a	1859	1/1	0.09	0.18	207,207,207,207	0
56	MG	2g	204	1/1	0.09	0.28	216,216,216,216	0
56	MG	2a	1782	1/1	0.09	0.24	205,205,205,205	0
56	MG	2a	1771	1/1	0.09	0.30	178,178,178,178	0
56	MG	1a	1856	1/1	0.10	0.13	227,227,227,227	0
56	MG	2A	3572	1/1	0.10	0.17	182,182,182,182	0
56	MG	2B	208	1/1	0.10	0.16	135,135,135,135	0
56	MG	2y	110	1/1	0.11	0.18	248,248,248,248	0
56	MG	2B	217	1/1	0.11	0.25	177,177,177,177	0
56	MG	1a	1837	1/1	0.12	0.19	226,226,226,226	0
56	MG	2a	1673	1/1	0.12	0.20	167,167,167,167	0
56	MG	2A	3808	1/1	0.12	0.23	173,173,173,173	0
56	MG	2l	201	1/1	0.13	0.42	132,132,132,132	0
56	MG	2B	224	1/1	0.13	0.25	128,128,128,128	0
56	MG	2A	3531	1/1	0.14	0.25	138,138,138,138	0
56	MG	1a	1634	1/1	0.14	0.41	117,117,117,117	0
56	MG	1a	1688	1/1	0.14	0.39	131,131,131,131	0
56	MG	2a	1716	1/1	0.15	0.37	135,135,135,135	0
56	MG	2a	1783	1/1	0.16	0.20	174,174,174,174	0
56	MG	2a	1629	1/1	0.16	0.15	187,187,187,187	0
56	MG	2A	3642	1/1	0.16	0.25	132,132,132,132	0
56	MG	1a	1829	1/1	0.16	0.22	194,194,194,194	0
56	MG	1a	1681	1/1	0.17	0.29	158,158,158,158	0
56	MG	2a	1734	1/1	0.17	0.41	127,127,127,127	0
56	MG	2a	1838	1/1	0.17	0.13	244,244,244,244	0
56	MG	2a	1824	1/1	0.18	0.21	158,158,158,158	0
56	MG	2y	101	1/1	0.18	0.31	154,154,154,154	0
56	MG	2a	1921	1/1	0.18	0.19	152,152,152,152	0
56	MG	1a	1678	1/1	0.18	0.21	162,162,162,162	0
56	MG	2a	1754	1/1	0.18	0.30	148,148,148,148	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3252	1/1	0.18	0.24	127,127,127,127	0
56	MG	2B	212	1/1	0.18	0.32	156,156,156,156	0
56	MG	2A	3591	1/1	0.18	0.18	191,191,191,191	0
56	MG	2a	1906	1/1	0.18	0.16	240,240,240,240	0
56	MG	2B	232	1/1	0.19	0.31	144,144,144,144	0
56	MG	2a	1675	1/1	0.19	0.21	166,166,166,166	0
56	MG	2a	1625	1/1	0.19	0.20	148,148,148,148	0
56	MG	2a	1828	1/1	0.19	0.20	163,163,163,163	0
56	MG	2A	3043	1/1	0.19	0.23	113,113,113,113	0
56	MG	2B	216	1/1	0.19	0.27	174,174,174,174	0
56	MG	1a	1828	1/1	0.19	0.25	175,175,175,175	0
56	MG	2a	1709	1/1	0.20	0.24	156,156,156,156	0
56	MG	2A	3815	1/1	0.20	0.24	136,136,136,136	0
56	MG	2a	1663	1/1	0.20	0.48	143,143,143,143	0
56	MG	2u	103	1/1	0.20	0.41	238,238,238,238	0
56	MG	2A	3071	1/1	0.20	0.50	129,129,129,129	0
56	MG	1a	1827	1/1	0.20	0.25	190,190,190,190	0
56	MG	2a	1789	1/1	0.20	0.17	233,233,233,233	0
56	MG	2a	1875	1/1	0.20	0.16	154,154,154,154	0
56	MG	2A	3421	1/1	0.21	0.28	146,146,146,146	0
56	MG	1a	1849	1/1	0.21	0.22	149,149,149,149	0
56	MG	2a	1722	1/1	0.21	0.28	141,141,141,141	0
56	MG	2A	3133	1/1	0.21	0.20	143,143,143,143	0
56	MG	1a	1845	1/1	0.21	0.13	234,234,234,234	0
56	MG	2a	1700	1/1	0.21	0.28	140,140,140,140	0
56	MG	2a	1822	1/1	0.21	0.21	167,167,167,167	0
56	MG	2a	1654	1/1	0.22	0.31	132,132,132,132	0
56	MG	1a	1910	1/1	0.22	0.28	127,127,127,127	0
56	MG	1a	1809	1/1	0.22	0.22	127,127,127,127	0
56	MG	2A	3423	1/1	0.22	0.28	130,130,130,130	0
56	MG	1a	1884	1/1	0.22	0.38	122,122,122,122	0
56	MG	2a	1628	1/1	0.22	0.28	161,161,161,161	0
56	MG	2A	3130	1/1	0.22	0.27	136,136,136,136	0
56	MG	2a	1745	1/1	0.23	0.26	162,162,162,162	0
56	MG	2a	1844	1/1	0.23	0.24	238,238,238,238	0
56	MG	2a	1846	1/1	0.23	0.29	225,225,225,225	0
56	MG	2a	1763	1/1	0.23	0.14	240,240,240,240	0
56	MG	2A	3590	1/1	0.23	0.14	171,171,171,171	0
56	MG	2A	3105	1/1	0.24	0.26	155,155,155,155	0
56	MG	1a	1733	1/1	0.25	0.19	149,149,149,149	0
56	MG	1a	1860	1/1	0.25	0.15	214,214,214,214	0
56	MG	2a	1649	1/1	0.25	0.36	143,143,143,143	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1s	103	1/1	0.25	0.23	203,203,203,203	0
56	MG	1a	1739	1/1	0.25	0.22	144,144,144,144	0
56	MG	1a	1648	1/1	0.25	0.26	135,135,135,135	0
56	MG	1a	1732	1/1	0.25	0.24	144,144,144,144	0
56	MG	2A	3836	1/1	0.26	0.18	205,205,205,205	0
56	MG	1A	4199	1/1	0.26	0.12	218,218,218,218	0
56	MG	2A	3403	1/1	0.26	0.17	219,219,219,219	0
56	MG	2f	301	1/1	0.26	0.26	138,138,138,138	0
56	MG	2A	3517	1/1	0.27	0.26	132,132,132,132	0
56	MG	1a	1738	1/1	0.27	0.26	148,148,148,148	0
56	MG	2a	1678	1/1	0.27	0.22	167,167,167,167	0
56	MG	2a	1884	1/1	0.28	0.25	168,168,168,168	0
56	MG	2A	3096	1/1	0.28	0.51	98,98,98,98	0
56	MG	1a	1868	1/1	0.28	0.26	214,214,214,214	0
56	MG	2A	3113	1/1	0.28	0.23	140,140,140,140	0
56	MG	2a	1735	1/1	0.28	0.40	132,132,132,132	0
56	MG	2a	1778	1/1	0.28	0.24	162,162,162,162	0
56	MG	2a	1781	1/1	0.28	0.14	230,230,230,230	0
56	MG	1a	1914	1/1	0.28	0.17	193,193,193,193	0
56	MG	2A	3424	1/1	0.29	0.42	142,142,142,142	0
56	MG	2B	201	1/1	0.29	0.35	115,115,115,115	0
56	MG	23	103	1/1	0.29	0.30	112,112,112,112	0
56	MG	2a	1742	1/1	0.29	0.32	148,148,148,148	0
56	MG	2a	1650	1/1	0.30	0.43	136,136,136,136	0
56	MG	1a	1835	1/1	0.30	0.17	221,221,221,221	0
56	MG	1A	4312	1/1	0.30	0.37	115,115,115,115	0
56	MG	2a	1695	1/1	0.30	0.28	146,146,146,146	0
56	MG	2a	1887	1/1	0.30	0.23	134,134,134,134	0
56	MG	2A	3576	1/1	0.30	0.24	151,151,151,151	0
56	MG	2a	1608	1/1	0.31	0.43	135,135,135,135	0
56	MG	2a	1794	1/1	0.31	0.15	168,168,168,168	0
56	MG	2A	3610	1/1	0.32	0.41	114,114,114,114	0
56	MG	2a	1863	1/1	0.32	0.26	162,162,162,162	0
56	MG	2A	3640	1/1	0.32	0.29	127,127,127,127	0
56	MG	2A	3098	1/1	0.32	0.16	159,159,159,159	0
56	MG	1a	1644	1/1	0.32	0.46	120,120,120,120	0
56	MG	1a	1820	1/1	0.32	0.32	205,205,205,205	0
56	MG	2a	1845	1/1	0.33	0.24	229,229,229,229	0
56	MG	1u	101	1/1	0.33	0.34	211,211,211,211	0
56	MG	2a	1756	1/1	0.33	0.22	205,205,205,205	0
56	MG	2a	1607	1/1	0.33	0.41	142,142,142,142	0
56	MG	2a	1909	1/1	0.33	0.37	225,225,225,225	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1868	1/1	0.33	0.12	144,144,144,144	0
56	MG	2a	1873	1/1	0.33	0.17	157,157,157,157	0
56	MG	2A	3247	1/1	0.33	0.32	113,113,113,113	0
56	MG	2g	201	1/1	0.33	0.18	229,229,229,229	0
56	MG	1a	1819	1/1	0.33	0.34	204,204,204,204	0
56	MG	2A	3624	1/1	0.33	0.29	156,156,156,156	0
56	MG	2A	3390	1/1	0.34	0.32	116,116,116,116	0
56	MG	1a	1637	1/1	0.34	0.29	119,119,119,119	0
56	MG	1a	1734	1/1	0.34	0.25	147,147,147,147	0
56	MG	2a	1680	1/1	0.34	0.21	162,162,162,162	0
56	MG	2a	1879	1/1	0.34	0.21	150,150,150,150	0
56	MG	1a	1740	1/1	0.34	0.17	151,151,151,151	0
56	MG	2A	3351	1/1	0.34	0.30	146,146,146,146	0
56	MG	2a	1647	1/1	0.34	0.31	139,139,139,139	0
56	MG	1A	4536	1/1	0.35	0.29	115,115,115,115	0
56	MG	2a	1662	1/1	0.35	0.22	150,150,150,150	0
56	MG	2p	103	1/1	0.35	0.20	152,152,152,152	0
56	MG	2a	1798	1/1	0.35	0.21	239,239,239,239	0
56	MG	1a	1735	1/1	0.35	0.26	150,150,150,150	0
56	MG	2a	1737	1/1	0.35	0.35	132,132,132,132	0
56	MG	2a	1696	1/1	0.36	0.20	161,161,161,161	0
56	MG	2a	1775	1/1	0.36	0.19	208,208,208,208	0
56	MG	2A	3673	1/1	0.36	0.30	133,133,133,133	0
56	MG	2a	1702	1/1	0.36	0.23	156,156,156,156	0
56	MG	1a	1640	1/1	0.36	0.38	115,115,115,115	0
56	MG	1A	4516	1/1	0.36	0.26	118,118,118,118	0
56	MG	1a	1803	1/1	0.36	0.35	125,125,125,125	0
56	MG	1a	1782	1/1	0.37	0.29	127,127,127,127	0
56	MG	2A	3800	1/1	0.37	0.25	151,151,151,151	0
56	MG	2a	1913	1/1	0.37	0.15	246,246,246,246	0
56	MG	2A	3574	1/1	0.37	0.24	253,253,253,253	0
56	MG	2d	301	1/1	0.37	0.25	147,147,147,147	0
56	MG	2q	201	1/1	0.37	0.23	124,124,124,124	0
56	MG	1a	1730	1/1	0.37	0.34	162,162,162,162	0
56	MG	2A	3388	1/1	0.38	0.26	117,117,117,117	0
56	MG	1a	1685	1/1	0.38	0.20	173,173,173,173	0
56	MG	1a	1670	1/1	0.38	0.35	137,137,137,137	0
56	MG	2a	1732	1/1	0.38	0.31	110,110,110,110	0
56	MG	2a	1812	1/1	0.38	0.28	126,126,126,126	0
56	MG	1a	1765	1/1	0.38	0.24	125,125,125,125	0
56	MG	2a	1637	1/1	0.38	0.15	146,146,146,146	0
56	MG	2A	3067	1/1	0.38	0.39	123,123,123,123	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1912	1/1	0.38	0.21	137,137,137,137	0
56	MG	2a	1705	1/1	0.38	0.16	150,150,150,150	0
56	MG	2a	1729	1/1	0.39	0.23	124,124,124,124	0
56	MG	1b	305	1/1	0.39	0.10	166,166,166,166	0
56	MG	2A	3502	1/1	0.39	0.34	104,104,104,104	0
56	MG	2A	3689	1/1	0.39	0.23	161,161,161,161	0
56	MG	2a	1626	1/1	0.39	0.19	157,157,157,157	0
56	MG	2a	1918	1/1	0.39	0.29	138,138,138,138	0
56	MG	2B	221	1/1	0.39	0.43	122,122,122,122	0
56	MG	1a	1906	1/1	0.39	0.25	121,121,121,121	0
56	MG	2a	1713	1/1	0.39	0.26	143,143,143,143	0
56	MG	2A	3764	1/1	0.39	0.35	151,151,151,151	0
56	MG	2a	1664	1/1	0.39	0.57	150,150,150,150	0
56	MG	2a	1773	1/1	0.39	0.19	228,228,228,228	0
56	MG	2a	1797	1/1	0.40	0.13	238,238,238,238	0
56	MG	1a	1909	1/1	0.40	0.17	136,136,136,136	0
56	MG	2B	204	1/1	0.40	0.28	130,130,130,130	0
56	MG	2e	202	1/1	0.40	0.38	153,153,153,153	0
56	MG	2A	3762	1/1	0.41	0.35	124,124,124,124	0
56	MG	2g	206	1/1	0.41	0.17	216,216,216,216	0
56	MG	2A	3251	1/1	0.41	0.17	123,123,123,123	0
56	MG	2A	3398	1/1	0.41	0.15	155,155,155,155	0
56	MG	2B	207	1/1	0.41	0.22	161,161,161,161	0
56	MG	1a	1823	1/1	0.41	0.38	211,211,211,211	0
56	MG	1a	1708	1/1	0.41	0.24	108,108,108,108	0
56	MG	2a	1691	1/1	0.41	0.28	139,139,139,139	0
56	MG	2A	3248	1/1	0.41	0.24	123,123,123,123	0
56	MG	2A	3832	1/1	0.41	0.35	121,121,121,121	0
56	MG	2a	1764	1/1	0.41	0.14	270,270,270,270	0
56	MG	2A	3201	1/1	0.41	0.37	115,115,115,115	0
56	MG	2p	102	1/1	0.42	0.29	148,148,148,148	0
56	MG	2A	3613	1/1	0.42	0.25	122,122,122,122	0
56	MG	2a	1614	1/1	0.42	0.20	165,165,165,165	0
56	MG	1A	5057	1/1	0.42	0.11	170,170,170,170	0
56	MG	2a	1621	1/1	0.42	0.15	162,162,162,162	0
56	MG	2a	1780	1/1	0.42	0.29	211,211,211,211	0
56	MG	1A	5054	1/1	0.42	0.22	142,142,142,142	0
56	MG	2a	1698	1/1	0.42	0.36	118,118,118,118	0
56	MG	2A	3676	1/1	0.42	0.37	125,125,125,125	0
56	MG	2a	1706	1/1	0.43	0.20	150,150,150,150	0
56	MG	1a	1895	1/1	0.43	0.20	121,121,121,121	0
56	MG	2A	3692	1/1	0.43	0.21	133,133,133,133	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2B	223	1/1	0.43	0.21	129,129,129,129	0
56	MG	2a	1653	1/1	0.43	0.37	141,141,141,141	0
56	MG	1a	1669	1/1	0.43	0.35	124,124,124,124	0
56	MG	2a	1703	1/1	0.43	0.20	157,157,157,157	0
56	MG	1a	1831	1/1	0.43	0.45	152,152,152,152	0
56	MG	2a	1877	1/1	0.43	0.17	151,151,151,151	0
56	MG	1a	1647	1/1	0.44	0.49	118,118,118,118	0
56	MG	2a	1899	1/1	0.44	0.19	125,125,125,125	0
56	MG	2A	3754	1/1	0.44	0.28	121,121,121,121	0
56	MG	1a	1802	1/1	0.44	0.19	142,142,142,142	0
56	MG	2A	3533	1/1	0.44	0.32	124,124,124,124	0
56	MG	2a	1636	1/1	0.44	0.19	150,150,150,150	0
56	MG	2A	3142	1/1	0.44	0.28	102,102,102,102	0
56	MG	2A	3783	1/1	0.44	0.16	139,139,139,139	0
56	MG	1A	4890	1/1	0.44	0.36	114,114,114,114	0
56	MG	1A	5051	1/1	0.44	0.12	192,192,192,192	0
56	MG	2A	3615	1/1	0.44	0.28	138,138,138,138	0
56	MG	2d	304	1/1	0.45	0.23	161,161,161,161	0
56	MG	1A	4682	1/1	0.45	0.40	116,116,116,116	0
56	MG	1a	1639	1/1	0.45	0.31	112,112,112,112	0
56	MG	1a	1662	1/1	0.45	0.48	123,123,123,123	0
56	MG	2A	3094	1/1	0.45	0.27	113,113,113,113	0
56	MG	2A	3416	1/1	0.45	0.23	114,114,114,114	0
56	MG	2b	303	1/1	0.45	0.17	185,185,185,185	0
56	MG	2z	101	1/1	0.45	0.33	177,177,177,177	0
56	MG	2A	3028	1/1	0.45	0.26	133,133,133,133	0
56	MG	1i	201	1/1	0.46	0.23	212,212,212,212	0
56	MG	2a	1687	1/1	0.46	0.24	162,162,162,162	0
56	MG	1a	1899	1/1	0.46	0.14	149,149,149,149	0
56	MG	2a	1674	1/1	0.46	0.41	127,127,127,127	0
56	MG	2A	3111	1/1	0.46	0.19	137,137,137,137	0
56	MG	2a	1746	1/1	0.46	0.43	120,120,120,120	0
56	MG	2A	3719	1/1	0.46	0.23	134,134,134,134	0
56	MG	2A	3198	1/1	0.46	0.53	100,100,100,100	0
56	MG	1A	4518	1/1	0.46	0.20	122,122,122,122	0
56	MG	2a	1683	1/1	0.46	0.26	158,158,158,158	0
56	MG	1a	1671	1/1	0.47	0.37	139,139,139,139	0
56	MG	2a	1659	1/1	0.47	0.25	117,117,117,117	0
56	MG	2l	205	1/1	0.47	0.19	148,148,148,148	0
56	MG	1a	1645	1/1	0.47	0.20	127,127,127,127	0
56	MG	2a	1908	1/1	0.47	0.19	230,230,230,230	0
56	MG	2A	3718	1/1	0.47	0.22	129,129,129,129	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2Z	401	1/1	0.47	0.20	142,142,142,142	0
56	MG	2A	3428	1/1	0.47	0.12	166,166,166,166	0
56	MG	2A	3536	1/1	0.47	0.21	123,123,123,123	0
56	MG	2A	3755	1/1	0.47	0.21	130,130,130,130	0
56	MG	2a	1712	1/1	0.47	0.18	148,148,148,148	0
56	MG	1B	206	1/1	0.47	0.24	71,71,71,71	0
56	MG	2A	3245	1/1	0.48	0.23	111,111,111,111	0
56	MG	1a	1682	1/1	0.48	0.09	197,197,197,197	0
56	MG	2a	1718	1/1	0.48	0.25	136,136,136,136	0
56	MG	2A	3828	1/1	0.48	0.24	126,126,126,126	0
56	MG	2A	3486	1/1	0.48	0.20	141,141,141,141	0
56	MG	1a	1654	1/1	0.48	0.26	120,120,120,120	0
56	MG	1a	1707	1/1	0.48	0.14	125,125,125,125	0
56	MG	2a	1661	1/1	0.48	0.14	145,145,145,145	0
56	MG	2a	1606	1/1	0.48	0.27	137,137,137,137	0
56	MG	1l	301	1/1	0.49	0.33	133,133,133,133	0
56	MG	2a	1699	1/1	0.49	0.29	138,138,138,138	0
56	MG	2A	3477	1/1	0.49	0.15	126,126,126,126	0
56	MG	2a	1800	1/1	0.49	0.16	220,220,220,220	0
56	MG	1a	1855	1/1	0.49	0.10	230,230,230,230	0
56	MG	2A	3553	1/1	0.49	0.29	106,106,106,106	0
56	MG	2A	3385	1/1	0.49	0.27	120,120,120,120	0
56	MG	2A	3515	1/1	0.49	0.29	115,115,115,115	0
56	MG	2B	231	1/1	0.49	0.13	152,152,152,152	0
56	MG	2a	1668	1/1	0.49	0.27	151,151,151,151	0
56	MG	2A	3680	1/1	0.49	0.35	114,114,114,114	0
56	MG	2Q	202	1/1	0.49	0.40	132,132,132,132	0
56	MG	2a	1790	1/1	0.49	0.12	249,249,249,249	0
56	MG	1a	1916	1/1	0.49	0.15	146,146,146,146	0
56	MG	2a	1753	1/1	0.50	0.22	138,138,138,138	0
56	MG	2x	105	1/1	0.50	0.11	237,237,237,237	0
56	MG	1a	1636	1/1	0.50	0.25	120,120,120,120	0
56	MG	2A	3491	1/1	0.50	0.13	133,133,133,133	0
56	MG	2A	3540	1/1	0.50	0.14	148,148,148,148	0
56	MG	2A	3792	1/1	0.50	0.23	130,130,130,130	0
56	MG	2A	3081	1/1	0.50	0.23	125,125,125,125	0
56	MG	2y	107	1/1	0.50	0.23	207,207,207,207	0
56	MG	1a	1691	1/1	0.50	0.35	117,117,117,117	0
56	MG	2a	1624	1/1	0.50	0.25	137,137,137,137	0
56	MG	2B	222	1/1	0.50	0.10	133,133,133,133	0
56	MG	2A	3408	1/1	0.50	0.28	129,129,129,129	0
56	MG	1a	1752	1/1	0.50	0.46	128,128,128,128	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1T	204	1/1	0.51	0.18	115,115,115,115	0
56	MG	2a	1665	1/1	0.51	0.11	139,139,139,139	0
56	MG	2a	1666	1/1	0.51	0.18	133,133,133,133	0
56	MG	2a	1741	1/1	0.51	0.15	174,174,174,174	0
56	MG	2A	3620	1/1	0.51	0.21	122,122,122,122	0
56	MG	2A	3019	1/1	0.51	0.16	112,112,112,112	0
56	MG	2a	1639	1/1	0.51	0.27	141,141,141,141	0
56	MG	2A	3331	1/1	0.51	0.39	91,91,91,91	0
56	MG	2a	1610	1/1	0.51	0.33	141,141,141,141	0
56	MG	2a	1676	1/1	0.51	0.20	163,163,163,163	0
56	MG	2A	3023	1/1	0.51	0.32	120,120,120,120	0
56	MG	2A	3585	1/1	0.51	0.15	114,114,114,114	0
56	MG	1A	4929	1/1	0.51	0.15	201,201,201,201	0
56	MG	1a	1763	1/1	0.51	0.32	109,109,109,109	0
56	MG	1a	1783	1/1	0.51	0.17	135,135,135,135	0
56	MG	1y	102	1/1	0.51	0.42	123,123,123,123	0
56	MG	2A	3612	1/1	0.51	0.34	136,136,136,136	0
56	MG	1y	105	1/1	0.51	0.11	180,180,180,180	0
56	MG	2A	3208	1/1	0.52	0.20	118,118,118,118	0
56	MG	2a	1840	1/1	0.52	0.16	228,228,228,228	0
56	MG	2A	3414	1/1	0.52	0.24	117,117,117,117	0
56	MG	2a	1686	1/1	0.52	0.24	150,150,150,150	0
56	MG	1A	4891	1/1	0.52	0.12	109,109,109,109	0
56	MG	2x	106	1/1	0.52	0.09	211,211,211,211	0
56	MG	1a	1821	1/1	0.52	0.22	202,202,202,202	0
56	MG	2A	3253	1/1	0.52	0.25	128,128,128,128	0
56	MG	2A	3763	1/1	0.52	0.22	133,133,133,133	0
56	MG	2B	220	1/1	0.52	0.29	140,140,140,140	0
56	MG	1g	302	1/1	0.52	0.19	194,194,194,194	0
56	MG	2a	1627	1/1	0.52	0.15	153,153,153,153	0
56	MG	2a	1807	1/1	0.52	0.26	122,122,122,122	0
56	MG	2A	3206	1/1	0.52	0.20	120,120,120,120	0
56	MG	2A	3404	1/1	0.52	0.24	135,135,135,135	0
56	MG	2A	3631	1/1	0.52	0.22	113,113,113,113	0
56	MG	2a	1738	1/1	0.52	0.37	138,138,138,138	0
56	MG	2a	1874	1/1	0.53	0.13	155,155,155,155	0
56	MG	2A	3220	1/1	0.53	0.22	115,115,115,115	0
56	MG	2A	3818	1/1	0.53	0.11	136,136,136,136	0
56	MG	2A	3225	1/1	0.53	0.27	113,113,113,113	0
56	MG	2A	3288	1/1	0.53	0.26	102,102,102,102	0
56	MG	2A	3407	1/1	0.53	0.32	117,117,117,117	0
56	MG	2a	1721	1/1	0.53	0.17	145,145,145,145	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1833	1/1	0.53	0.14	201,201,201,201	0
56	MG	1a	1745	1/1	0.53	0.28	122,122,122,122	0
56	MG	2a	1643	1/1	0.53	0.28	144,144,144,144	0
56	MG	2A	3367	1/1	0.53	0.32	92,92,92,92	0
56	MG	2a	1617	1/1	0.53	0.31	127,127,127,127	0
56	MG	2A	3122	1/1	0.53	0.36	117,117,117,117	0
56	MG	2A	3203	1/1	0.53	0.28	124,124,124,124	0
56	MG	2A	3611	1/1	0.53	0.24	141,141,141,141	0
56	MG	1a	1918	1/1	0.53	0.27	142,142,142,142	0
56	MG	2a	1796	1/1	0.53	0.12	111,111,111,111	0
56	MG	2a	1869	1/1	0.53	0.32	151,151,151,151	0
56	MG	2z	102	1/1	0.53	0.20	175,175,175,175	0
56	MG	2A	3084	1/1	0.53	0.35	115,115,115,115	0
56	MG	1a	1864	1/1	0.54	0.30	211,211,211,211	0
56	MG	2A	3593	1/1	0.54	0.17	129,129,129,129	0
56	MG	1A	4535	1/1	0.54	0.10	77,77,77,77	0
56	MG	2A	3365	1/1	0.54	0.51	90,90,90,90	0
56	MG	2A	3131	1/1	0.54	0.28	130,130,130,130	0
56	MG	2A	3022	1/1	0.54	0.14	126,126,126,126	0
56	MG	1A	4819	1/1	0.54	0.10	119,119,119,119	0
56	MG	1a	1771	1/1	0.54	0.15	135,135,135,135	0
56	MG	1A	4023	1/1	0.54	0.32	110,110,110,110	0
56	MG	1a	1631	1/1	0.54	0.19	126,126,126,126	0
56	MG	2A	3205	1/1	0.54	0.22	122,122,122,122	0
56	MG	1a	1710	1/1	0.54	0.28	115,115,115,115	0
56	MG	2A	3116	1/1	0.54	0.26	127,127,127,127	0
56	MG	2a	1640	1/1	0.54	0.40	143,143,143,143	0
56	MG	2a	1885	1/1	0.54	0.17	162,162,162,162	0
56	MG	2a	1615	1/1	0.54	0.44	145,145,145,145	0
56	MG	2a	1670	1/1	0.54	0.14	163,163,163,163	0
56	MG	2A	3109	1/1	0.55	0.23	137,137,137,137	0
56	MG	1a	1857	1/1	0.55	0.14	211,211,211,211	0
56	MG	2a	1804	1/1	0.55	0.28	107,107,107,107	0
56	MG	1a	1900	1/1	0.55	0.15	134,134,134,134	0
56	MG	2a	1677	1/1	0.55	0.14	166,166,166,166	0
56	MG	1a	1871	1/1	0.55	0.14	199,199,199,199	0
56	MG	2A	3057	1/1	0.55	0.18	96,96,96,96	0
56	MG	2a	1658	1/1	0.56	0.16	122,122,122,122	0
56	MG	1b	302	1/1	0.56	0.19	165,165,165,165	0
56	MG	2A	3598	1/1	0.56	0.26	121,121,121,121	0
56	MG	2A	3387	1/1	0.56	0.17	123,123,123,123	0
56	MG	2A	3798	1/1	0.56	0.34	98,98,98,98	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4831	1/1	0.56	0.28	109,109,109,109	0
56	MG	2a	1847	1/1	0.56	0.14	160,160,160,160	0
56	MG	2B	202	1/1	0.56	0.23	137,137,137,137	0
56	MG	28	104	1/1	0.56	0.28	110,110,110,110	0
56	MG	2A	3681	1/1	0.56	0.30	119,119,119,119	0
56	MG	2A	3810	1/1	0.56	0.12	145,145,145,145	0
56	MG	1A	4973	1/1	0.56	0.21	80,80,80,80	0
56	MG	1A	5050	1/1	0.56	0.12	173,173,173,173	0
56	MG	2v	702	1/1	0.56	0.14	183,183,183,183	0
56	MG	2B	227	1/1	0.56	0.47	132,132,132,132	0
56	MG	1A	4367	1/1	0.57	0.36	56,56,56,56	0
56	MG	2A	3552	1/1	0.57	0.29	105,105,105,105	0
56	MG	2A	3464	1/1	0.57	0.34	129,129,129,129	0
56	MG	1a	1768	1/1	0.57	0.18	122,122,122,122	0
56	MG	2a	1915	1/1	0.57	0.17	123,123,123,123	0
56	MG	2A	3405	1/1	0.57	0.40	130,130,130,130	0
56	MG	1a	1902	1/1	0.57	0.24	135,135,135,135	0
56	MG	2a	1865	1/1	0.57	0.28	119,119,119,119	0
56	MG	2A	3016	1/1	0.57	0.28	118,118,118,118	0
56	MG	1a	1814	1/1	0.57	0.17	158,158,158,158	0
56	MG	1a	1638	1/1	0.57	0.38	117,117,117,117	0
56	MG	2Z	404	1/1	0.57	0.27	132,132,132,132	0
56	MG	2x	107	1/1	0.57	0.13	131,131,131,131	0
56	MG	2A	3643	1/1	0.57	0.24	131,131,131,131	0
56	MG	2A	3644	1/1	0.57	0.17	155,155,155,155	0
56	MG	2a	1803	1/1	0.57	0.27	127,127,127,127	0
56	MG	2a	1740	1/1	0.57	0.12	143,143,143,143	0
56	MG	2a	1805	1/1	0.57	0.22	114,114,114,114	0
56	MG	2B	213	1/1	0.57	0.26	151,151,151,151	0
56	MG	2A	3524	1/1	0.57	0.36	103,103,103,103	0
56	MG	2A	3529	1/1	0.57	0.29	118,118,118,118	0
56	MG	2A	3172	1/1	0.57	0.22	91,91,91,91	0
56	MG	2A	3241	1/1	0.57	0.21	124,124,124,124	0
56	MG	2A	3607	1/1	0.57	0.25	127,127,127,127	0
56	MG	1a	1744	1/1	0.57	0.24	132,132,132,132	0
56	MG	1A	4314	1/1	0.58	0.24	107,107,107,107	0
56	MG	2A	3199	1/1	0.58	0.27	111,111,111,111	0
56	MG	2B	229	1/1	0.58	0.14	150,150,150,150	0
56	MG	2a	1671	1/1	0.58	0.12	173,173,173,173	0
56	MG	2a	1714	1/1	0.58	0.21	143,143,143,143	0
56	MG	2A	3112	1/1	0.58	0.14	136,136,136,136	0
56	MG	1A	4481	1/1	0.58	0.36	78,78,78,78	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3465	1/1	0.58	0.20	129,129,129,129	0
56	MG	2y	105	1/1	0.58	0.15	262,262,262,262	0
56	MG	2A	3474	1/1	0.58	0.22	125,125,125,125	0
56	MG	2a	1900	1/1	0.58	0.07	174,174,174,174	0
56	MG	1a	1780	1/1	0.58	0.29	124,124,124,124	0
56	MG	2a	1731	1/1	0.58	0.21	103,103,103,103	0
56	MG	2A	3160	1/1	0.58	0.28	103,103,103,103	0
56	MG	2A	3337	1/1	0.58	0.28	91,91,91,91	0
56	MG	1a	1781	1/1	0.58	0.33	110,110,110,110	0
56	MG	2A	3564	1/1	0.58	0.23	102,102,102,102	0
56	MG	2A	3801	1/1	0.59	0.22	128,128,128,128	0
56	MG	2A	3107	1/1	0.59	0.22	166,166,166,166	0
56	MG	29	102	1/1	0.59	0.25	128,128,128,128	0
56	MG	2a	1630	1/1	0.59	0.32	123,123,123,123	0
56	MG	2A	3179	1/1	0.59	0.20	139,139,139,139	0
56	MG	2a	1697	1/1	0.59	0.32	136,136,136,136	0
56	MG	2A	3108	1/1	0.59	0.18	139,139,139,139	0
56	MG	1a	1804	1/1	0.59	0.18	130,130,130,130	0
56	MG	1d	301	1/1	0.59	0.26	128,128,128,128	0
56	MG	1a	1687	1/1	0.59	0.39	118,118,118,118	0
56	MG	1a	1912	1/1	0.59	0.29	131,131,131,131	0
56	MG	2A	3008	1/1	0.59	0.26	94,94,94,94	0
56	MG	2a	1897	1/1	0.59	0.11	153,153,153,153	0
56	MG	2A	3012	1/1	0.59	0.26	108,108,108,108	0
56	MG	2a	1779	1/1	0.59	0.27	183,183,183,183	0
56	MG	2a	1747	1/1	0.59	0.32	122,122,122,122	0
56	MG	1a	1792	1/1	0.59	0.51	105,105,105,105	0
56	MG	2A	3358	1/1	0.59	0.18	97,97,97,97	0
56	MG	2l	204	1/1	0.59	0.28	136,136,136,136	0
56	MG	2A	3782	1/1	0.59	0.15	139,139,139,139	0
56	MG	1a	1775	1/1	0.59	0.21	131,131,131,131	0
56	MG	2A	3020	1/1	0.59	0.23	103,103,103,103	0
56	MG	1a	1903	1/1	0.59	0.18	121,121,121,121	0
56	MG	1A	5055	1/1	0.59	0.18	133,133,133,133	0
56	MG	2A	3768	1/1	0.60	0.15	90,90,90,90	0
56	MG	1a	1641	1/1	0.60	0.21	124,124,124,124	0
56	MG	1A	4488	1/1	0.60	0.29	85,85,85,85	0
56	MG	2A	3087	1/1	0.60	0.18	121,121,121,121	0
56	MG	1a	1743	1/1	0.60	0.20	139,139,139,139	0
56	MG	1a	1686	1/1	0.60	0.42	116,116,116,116	0
56	MG	2A	3310	1/1	0.60	0.16	117,117,117,117	0
56	MG	2A	3243	1/1	0.60	0.27	109,109,109,109	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3435	1/1	0.60	0.29	97,97,97,97	0
56	MG	1A	4394	1/1	0.60	0.50	60,60,60,60	0
56	MG	2Y	201	1/1	0.60	0.19	113,113,113,113	0
56	MG	1a	1746	1/1	0.60	0.13	154,154,154,154	0
56	MG	2A	3473	1/1	0.60	0.23	131,131,131,131	0
56	MG	2A	3018	1/1	0.60	0.18	124,124,124,124	0
56	MG	1a	1659	1/1	0.60	0.18	118,118,118,118	0
56	MG	2l	206	1/1	0.61	0.21	145,145,145,145	0
56	MG	2A	3578	1/1	0.61	0.24	135,135,135,135	0
56	MG	1a	1679	1/1	0.61	0.14	163,163,163,163	0
56	MG	1A	4927	1/1	0.61	0.17	87,87,87,87	0
56	MG	2A	3097	1/1	0.61	0.47	99,99,99,99	0
56	MG	1a	1839	1/1	0.61	0.18	146,146,146,146	0
56	MG	2s	101	1/1	0.61	0.12	250,250,250,250	0
56	MG	2a	1648	1/1	0.61	0.29	124,124,124,124	0
56	MG	2a	1821	1/1	0.61	0.18	143,143,143,143	0
56	MG	2h	205	1/1	0.61	0.14	152,152,152,152	0
56	MG	2A	3399	1/1	0.61	0.13	194,194,194,194	0
56	MG	1B	203	1/1	0.61	0.10	95,95,95,95	0
56	MG	2a	1749	1/1	0.61	0.36	115,115,115,115	0
56	MG	1A	4035	1/1	0.61	0.28	73,73,73,73	0
56	MG	1A	4790	1/1	0.61	0.24	99,99,99,99	0
56	MG	2A	3440	1/1	0.62	0.35	99,99,99,99	0
56	MG	2a	1723	1/1	0.62	0.38	118,118,118,118	0
56	MG	2A	3785	1/1	0.62	0.19	119,119,119,119	0
56	MG	20	104	1/1	0.62	0.23	122,122,122,122	0
56	MG	2A	3412	1/1	0.62	0.28	105,105,105,105	0
56	MG	2A	3366	1/1	0.62	0.53	82,82,82,82	0
56	MG	2u	102	1/1	0.62	0.13	241,241,241,241	0
56	MG	1a	1817	1/1	0.62	0.21	148,148,148,148	0
56	MG	2A	3119	1/1	0.62	0.29	113,113,113,113	0
56	MG	2A	3583	1/1	0.62	0.31	122,122,122,122	0
56	MG	1a	1757	1/1	0.62	0.43	107,107,107,107	0
56	MG	2A	3586	1/1	0.62	0.20	120,120,120,120	0
56	MG	2A	3735	1/1	0.62	0.26	101,101,101,101	0
56	MG	2a	1704	1/1	0.62	0.18	160,160,160,160	0
56	MG	2A	3625	1/1	0.62	0.19	146,146,146,146	0
56	MG	2a	1893	1/1	0.62	0.19	123,123,123,123	0
56	MG	2A	3628	1/1	0.62	0.19	119,119,119,119	0
56	MG	2A	3588	1/1	0.62	0.32	127,127,127,127	0
56	MG	2A	3538	1/1	0.62	0.23	134,134,134,134	0
56	MG	2a	1835	1/1	0.62	0.10	152,152,152,152	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1747	1/1	0.62	0.12	149,149,149,149	0
56	MG	2l	202	1/1	0.62	0.22	150,150,150,150	0
56	MG	2A	3425	1/1	0.62	0.31	102,102,102,102	0
56	MG	2a	1841	1/1	0.62	0.16	224,224,224,224	0
56	MG	1Z	302	1/1	0.62	0.20	98,98,98,98	0
56	MG	2A	3774	1/1	0.62	0.23	116,116,116,116	0
56	MG	1a	1776	1/1	0.62	0.19	122,122,122,122	0
56	MG	2m	203	1/1	0.62	0.24	238,238,238,238	0
56	MG	2a	1711	1/1	0.63	0.14	149,149,149,149	0
56	MG	1b	301	1/1	0.63	0.17	165,165,165,165	0
56	MG	1A	5058	1/1	0.63	0.10	100,100,100,100	0
56	MG	1A	4050	1/1	0.63	0.29	100,100,100,100	0
56	MG	2A	3622	1/1	0.63	0.19	137,137,137,137	0
56	MG	1a	1816	1/1	0.63	0.20	183,183,183,183	0
56	MG	2a	1612	1/1	0.63	0.23	141,141,141,141	0
56	MG	2A	3461	1/1	0.63	0.20	111,111,111,111	0
56	MG	1x	301	1/1	0.63	0.15	193,193,193,193	0
56	MG	1a	1611	1/1	0.63	0.12	99,99,99,99	0
56	MG	2f	304	1/1	0.63	0.25	137,137,137,137	0
56	MG	2A	3329	1/1	0.63	0.41	87,87,87,87	0
56	MG	2A	3841	1/1	0.63	0.21	146,146,146,146	0
56	MG	2A	3389	1/1	0.63	0.25	117,117,117,117	0
56	MG	1a	1712	1/1	0.63	0.25	114,114,114,114	0
56	MG	2A	3391	1/1	0.63	0.20	122,122,122,122	0
56	MG	2a	1888	1/1	0.63	0.14	136,136,136,136	0
56	MG	2A	3661	1/1	0.63	0.31	105,105,105,105	0
56	MG	1A	4503	1/1	0.63	0.15	102,102,102,102	0
56	MG	2Z	403	1/1	0.63	0.18	130,130,130,130	0
56	MG	2A	3570	1/1	0.63	0.20	167,167,167,167	0
56	MG	2a	1743	1/1	0.63	0.19	151,151,151,151	0
56	MG	2A	3571	1/1	0.63	0.19	172,172,172,172	0
56	MG	2a	1839	1/1	0.63	0.16	241,241,241,241	0
56	MG	2A	3090	1/1	0.63	0.33	110,110,110,110	0
56	MG	2A	3503	1/1	0.63	0.31	103,103,103,103	0
56	MG	2B	215	1/1	0.63	0.12	164,164,164,164	0
56	MG	2A	3687	1/1	0.63	0.32	118,118,118,118	0
56	MG	2A	3787	1/1	0.64	0.13	125,125,125,125	0
56	MG	2A	3176	1/1	0.64	0.22	114,114,114,114	0
56	MG	1a	1758	1/1	0.64	0.27	111,111,111,111	0
56	MG	1A	4049	1/1	0.64	0.25	97,97,97,97	0
56	MG	2a	1814	1/1	0.64	0.15	142,142,142,142	0
56	MG	2A	3480	1/1	0.64	0.13	132,132,132,132	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4054	1/1	0.64	0.15	95,95,95,95	0
56	MG	1a	1655	1/1	0.64	0.28	120,120,120,120	0
56	MG	1A	4548	1/1	0.64	0.22	131,131,131,131	0
56	MG	2A	3817	1/1	0.64	0.12	139,139,139,139	0
56	MG	1a	1894	1/1	0.64	0.23	132,132,132,132	0
56	MG	2A	3505	1/1	0.64	0.14	129,129,129,129	0
56	MG	1a	1680	1/1	0.64	0.17	155,155,155,155	0
56	MG	2A	3269	1/1	0.64	0.30	94,94,94,94	0
56	MG	2A	3521	1/1	0.64	0.21	105,105,105,105	0
56	MG	2A	3283	1/1	0.64	0.32	108,108,108,108	0
56	MG	2A	3641	1/1	0.64	0.17	127,127,127,127	0
56	MG	2a	1724	1/1	0.64	0.17	141,141,141,141	0
56	MG	2A	3284	1/1	0.64	0.31	97,97,97,97	0
56	MG	1B	215	1/1	0.64	0.27	65,65,65,65	0
56	MG	1A	4525	1/1	0.64	0.16	104,104,104,104	0
56	MG	1a	1808	1/1	0.64	0.20	122,122,122,122	0
56	MG	1A	4776	1/1	0.64	0.16	96,96,96,96	0
56	MG	2a	1871	1/1	0.64	0.29	134,134,134,134	0
56	MG	1g	301	1/1	0.64	0.24	186,186,186,186	0
56	MG	2F	302	1/1	0.65	0.20	90,90,90,90	0
56	MG	2A	3739	1/1	0.65	0.32	103,103,103,103	0
56	MG	2T	302	1/1	0.65	0.32	124,124,124,124	0
56	MG	2A	3030	1/1	0.65	0.32	97,97,97,97	0
56	MG	2A	3138	1/1	0.65	0.17	118,118,118,118	0
56	MG	2A	3566	1/1	0.65	0.15	114,114,114,114	0
56	MG	2A	3099	1/1	0.65	0.09	152,152,152,152	0
56	MG	2a	1733	1/1	0.65	0.12	125,125,125,125	0
56	MG	1a	1653	1/1	0.65	0.25	119,119,119,119	0
56	MG	1A	5056	1/1	0.65	0.13	137,137,137,137	0
56	MG	2A	3015	1/1	0.65	0.25	112,112,112,112	0
56	MG	1a	1865	1/1	0.65	0.09	224,224,224,224	0
56	MG	2A	3184	1/1	0.65	0.19	135,135,135,135	0
56	MG	2a	1603	1/1	0.65	0.16	151,151,151,151	0
56	MG	1a	1798	1/1	0.65	0.22	118,118,118,118	0
56	MG	2A	3512	1/1	0.65	0.25	94,94,94,94	0
56	MG	2A	3386	1/1	0.65	0.11	125,125,125,125	0
56	MG	2A	3083	1/1	0.65	0.31	115,115,115,115	0
56	MG	1A	4259	1/1	0.65	0.23	61,61,61,61	0
56	MG	2A	3523	1/1	0.65	0.20	100,100,100,100	0
56	MG	1a	1601	1/1	0.65	0.26	73,73,73,73	0
56	MG	2A	3432	1/1	0.65	0.37	93,93,93,93	0
56	MG	1a	1825	1/1	0.65	0.17	214,214,214,214	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3532	1/1	0.65	0.17	118,118,118,118	0
56	MG	2B	225	1/1	0.65	0.13	132,132,132,132	0
56	MG	1A	4040	1/1	0.65	0.14	93,93,93,93	0
56	MG	2A	3443	1/1	0.65	0.24	111,111,111,111	0
56	MG	2A	3285	1/1	0.65	0.33	101,101,101,101	0
56	MG	2a	1892	1/1	0.65	0.22	142,142,142,142	0
56	MG	2a	1672	1/1	0.65	0.15	181,181,181,181	0
56	MG	2A	3027	1/1	0.65	0.13	123,123,123,123	0
56	MG	1a	1896	1/1	0.65	0.35	114,114,114,114	0
56	MG	1a	1690	1/1	0.66	0.15	124,124,124,124	0
56	MG	1A	5024	1/1	0.66	0.34	55,55,55,55	0
56	MG	2A	3793	1/1	0.66	0.16	116,116,116,116	0
56	MG	2A	3795	1/1	0.66	0.10	109,109,109,109	0
56	MG	2A	3319	1/1	0.66	0.23	87,87,87,87	0
56	MG	2T	301	1/1	0.66	0.18	124,124,124,124	0
56	MG	2A	3419	1/1	0.66	0.19	135,135,135,135	0
56	MG	2A	3102	1/1	0.66	0.20	144,144,144,144	0
56	MG	1a	1774	1/1	0.66	0.11	139,139,139,139	0
56	MG	2A	3395	1/1	0.66	0.30	128,128,128,128	0
56	MG	1D	307	1/1	0.66	0.27	99,99,99,99	0
56	MG	1A	4863	1/1	0.66	0.23	62,62,62,62	0
56	MG	1a	1629	1/1	0.66	0.23	101,101,101,101	0
56	MG	1a	1660	1/1	0.66	0.30	119,119,119,119	0
56	MG	2A	3161	1/1	0.66	0.37	100,100,100,100	0
56	MG	2A	3442	1/1	0.66	0.21	108,108,108,108	0
56	MG	1a	1862	1/1	0.66	0.17	215,215,215,215	0
56	MG	1v	701	1/1	0.66	0.43	117,117,117,117	0
56	MG	2A	3066	1/1	0.66	0.20	125,125,125,125	0
56	MG	2A	3526	1/1	0.66	0.16	106,106,106,106	0
56	MG	2s	103	1/1	0.66	0.39	251,251,251,251	0
56	MG	2a	1641	1/1	0.66	0.19	146,146,146,146	0
56	MG	2A	3758	1/1	0.67	0.11	211,211,211,211	0
56	MG	2A	3149	1/1	0.67	0.25	110,110,110,110	0
56	MG	1A	4022	1/1	0.67	0.26	111,111,111,111	0
56	MG	2a	1883	1/1	0.67	0.32	131,131,131,131	0
56	MG	1A	4809	1/1	0.67	0.17	58,58,58,58	0
56	MG	2A	3270	1/1	0.67	0.17	98,98,98,98	0
56	MG	2a	1886	1/1	0.67	0.18	147,147,147,147	0
56	MG	2a	1757	1/1	0.67	0.31	211,211,211,211	0
56	MG	2A	3528	1/1	0.67	0.18	106,106,106,106	0
56	MG	2A	3736	1/1	0.67	0.23	108,108,108,108	0
56	MG	1a	1917	1/1	0.67	0.09	128,128,128,128	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3100	1/1	0.67	0.16	152,152,152,152	0
56	MG	2A	3031	1/1	0.67	0.27	103,103,103,103	0
56	MG	2A	3534	1/1	0.68	0.26	133,133,133,133	0
56	MG	2A	3095	1/1	0.68	0.44	106,106,106,106	0
56	MG	2A	3152	1/1	0.68	0.13	96,96,96,96	0
56	MG	2A	3363	1/1	0.68	0.56	85,85,85,85	0
56	MG	1a	1867	1/1	0.68	0.10	227,227,227,227	0
56	MG	2A	3211	1/1	0.68	0.39	94,94,94,94	0
56	MG	1a	1627	1/1	0.68	0.22	95,95,95,95	0
56	MG	2a	1901	1/1	0.68	0.10	171,171,171,171	0
56	MG	2a	1856	1/1	0.68	0.23	147,147,147,147	0
56	MG	2a	1860	1/1	0.68	0.18	153,153,153,153	0
56	MG	2A	3740	1/1	0.68	0.23	88,88,88,88	0
56	MG	1A	4506	1/1	0.68	0.34	96,96,96,96	0
56	MG	2A	3230	1/1	0.68	0.25	87,87,87,87	0
56	MG	2A	3658	1/1	0.68	0.28	112,112,112,112	0
56	MG	2A	3659	1/1	0.68	0.21	149,149,149,149	0
56	MG	1A	4036	1/1	0.68	0.41	76,76,76,76	0
56	MG	1A	4012	1/1	0.68	0.35	71,71,71,71	0
56	MG	1B	211	1/1	0.68	0.22	82,82,82,82	0
56	MG	28	105	1/1	0.68	0.18	119,119,119,119	0
56	MG	1A	4048	1/1	0.68	0.30	103,103,103,103	0
56	MG	1a	1646	1/1	0.68	0.29	116,116,116,116	0
56	MG	2a	1632	1/1	0.68	0.18	137,137,137,137	0
56	MG	1a	1728	1/1	0.68	0.15	143,143,143,143	0
56	MG	1a	1742	1/1	0.68	0.34	106,106,106,106	0
56	MG	1A	4733	1/1	0.69	0.18	82,82,82,82	0
56	MG	2A	3178	1/1	0.69	0.29	116,116,116,116	0
56	MG	1A	4970	1/1	0.69	0.16	89,89,89,89	0
56	MG	2A	3647	1/1	0.69	0.23	108,108,108,108	0
56	MG	2o	301	1/1	0.69	0.12	118,118,118,118	0
56	MG	2A	3743	1/1	0.69	0.25	83,83,83,83	0
56	MG	2A	3751	1/1	0.69	0.28	101,101,101,101	0
56	MG	2A	3752	1/1	0.69	0.18	117,117,117,117	0
56	MG	2r	302	1/1	0.69	0.13	149,149,149,149	0
56	MG	2A	3305	1/1	0.69	0.19	128,128,128,128	0
56	MG	1a	1731	1/1	0.69	0.25	136,136,136,136	0
56	MG	2A	3577	1/1	0.69	0.24	143,143,143,143	0
56	MG	2a	1638	1/1	0.69	0.13	148,148,148,148	0
56	MG	2A	3504	1/1	0.69	0.11	134,134,134,134	0
56	MG	2A	3823	1/1	0.69	0.24	95,95,95,95	0
56	MG	1n	102	1/1	0.69	0.31	210,210,210,210	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1870	1/1	0.69	0.21	108,108,108,108	0
56	MG	2x	102	1/1	0.69	0.14	107,107,107,107	0
56	MG	1A	4633	1/1	0.69	0.12	71,71,71,71	0
56	MG	2a	1799	1/1	0.69	0.34	238,238,238,238	0
56	MG	2A	3076	1/1	0.69	0.25	113,113,113,113	0
56	MG	2A	3333	1/1	0.69	0.25	98,98,98,98	0
56	MG	2A	3078	1/1	0.69	0.25	119,119,119,119	0
56	MG	2a	1878	1/1	0.69	0.29	115,115,115,115	0
56	MG	2A	3778	1/1	0.69	0.27	97,97,97,97	0
56	MG	2a	1651	1/1	0.69	0.41	142,142,142,142	0
56	MG	2a	1727	1/1	0.69	0.15	124,124,124,124	0
56	MG	2A	3244	1/1	0.69	0.26	104,104,104,104	0
56	MG	2a	1730	1/1	0.69	0.15	127,127,127,127	0
56	MG	2A	3639	1/1	0.69	0.27	118,118,118,118	0
56	MG	2Q	201	1/1	0.69	0.17	126,126,126,126	0
56	MG	2A	3282	1/1	0.69	0.19	107,107,107,107	0
56	MG	2a	1693	1/1	0.69	0.18	141,141,141,141	0
56	MG	2a	1894	1/1	0.69	0.29	151,151,151,151	0
56	MG	2Q	206	1/1	0.69	0.16	118,118,118,118	0
56	MG	1a	1764	1/1	0.69	0.13	121,121,121,121	0
56	MG	1A	4330	1/1	0.70	0.24	77,77,77,77	0
56	MG	1A	4343	1/1	0.70	0.39	71,71,71,71	0
56	MG	2A	3393	1/1	0.70	0.16	132,132,132,132	0
56	MG	2A	3207	1/1	0.70	0.17	123,123,123,123	0
56	MG	1A	4066	1/1	0.70	0.17	98,98,98,98	0
56	MG	2A	3562	1/1	0.70	0.32	90,90,90,90	0
56	MG	2A	3563	1/1	0.70	0.35	90,90,90,90	0
56	MG	1A	4388	1/1	0.70	0.35	79,79,79,79	0
56	MG	2A	3302	1/1	0.70	0.24	100,100,100,100	0
56	MG	2q	202	1/1	0.70	0.16	149,149,149,149	0
56	MG	2A	3400	1/1	0.70	0.20	225,225,225,225	0
56	MG	2A	3214	1/1	0.70	0.36	93,93,93,93	0
56	MG	1a	1915	1/1	0.70	0.13	134,134,134,134	0
56	MG	1A	4285	1/1	0.70	0.33	62,62,62,62	0
56	MG	2t	201	1/1	0.70	0.19	159,159,159,159	0
56	MG	1a	1620	1/1	0.70	0.26	98,98,98,98	0
56	MG	20	105	1/1	0.70	0.18	126,126,126,126	0
56	MG	23	102	1/1	0.70	0.19	124,124,124,124	0
56	MG	1a	1623	1/1	0.70	0.24	100,100,100,100	0
56	MG	1A	4226	1/1	0.70	0.21	81,81,81,81	0
56	MG	2a	1692	1/1	0.70	0.18	149,149,149,149	0
56	MG	2A	3106	1/1	0.70	0.12	170,170,170,170	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1699	1/1	0.70	0.23	118,118,118,118	0
56	MG	2A	3417	1/1	0.70	0.17	117,117,117,117	0
56	MG	2a	1652	1/1	0.70	0.19	142,142,142,142	0
56	MG	1a	1704	1/1	0.70	0.14	125,125,125,125	0
56	MG	1A	4256	1/1	0.70	0.39	65,65,65,65	0
56	MG	2A	3789	1/1	0.70	0.06	97,97,97,97	0
56	MG	1a	1830	1/1	0.70	0.12	194,194,194,194	0
56	MG	1B	212	1/1	0.70	0.22	87,87,87,87	0
56	MG	2A	3188	1/1	0.70	0.26	103,103,103,103	0
56	MG	2h	203	1/1	0.70	0.14	144,144,144,144	0
56	MG	1a	1858	1/1	0.70	0.12	210,210,210,210	0
56	MG	2A	3115	1/1	0.70	0.13	135,135,135,135	0
56	MG	1A	4959	1/1	0.70	0.16	102,102,102,102	0
56	MG	1B	223	1/1	0.70	0.22	97,97,97,97	0
56	MG	2B	228	1/1	0.70	0.14	145,145,145,145	0
56	MG	2l	203	1/1	0.70	0.28	129,129,129,129	0
56	MG	2A	3281	1/1	0.70	0.37	104,104,104,104	0
56	MG	1a	1657	1/1	0.71	0.17	106,106,106,106	0
56	MG	2A	3690	1/1	0.71	0.14	159,159,159,159	0
56	MG	1A	4485	1/1	0.71	0.27	61,61,61,61	0
56	MG	2A	3699	1/1	0.71	0.27	107,107,107,107	0
56	MG	2a	1867	1/1	0.71	0.15	79,79,79,79	0
56	MG	2A	3716	1/1	0.71	0.22	116,116,116,116	0
56	MG	2A	3587	1/1	0.71	0.30	123,123,123,123	0
56	MG	2A	3635	1/1	0.71	0.31	103,103,103,103	0
56	MG	2A	3732	1/1	0.71	0.28	95,95,95,95	0
56	MG	2a	1634	1/1	0.71	0.22	120,120,120,120	0
56	MG	23	101	1/1	0.71	0.18	104,104,104,104	0
56	MG	2A	3287	1/1	0.71	0.52	104,104,104,104	0
56	MG	1a	1649	1/1	0.71	0.44	105,105,105,105	0
56	MG	2A	3298	1/1	0.71	0.27	94,94,94,94	0
56	MG	2A	3802	1/1	0.71	0.33	108,108,108,108	0
56	MG	2A	3181	1/1	0.71	0.20	114,114,114,114	0
56	MG	2a	1808	1/1	0.71	0.17	102,102,102,102	0
56	MG	2A	3595	1/1	0.71	0.13	147,147,147,147	0
56	MG	2a	1645	1/1	0.71	0.22	124,124,124,124	0
56	MG	1A	4198	1/1	0.71	0.18	98,98,98,98	0
56	MG	2A	3215	1/1	0.71	0.26	100,100,100,100	0
56	MG	1A	5022	1/1	0.71	0.14	122,122,122,122	0
56	MG	1a	1853	1/1	0.71	0.17	225,225,225,225	0
56	MG	2A	3660	1/1	0.71	0.12	147,147,147,147	0
56	MG	2a	1690	1/1	0.71	0.29	155,155,155,155	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1810	1/1	0.71	0.17	100,100,100,100	0
56	MG	2A	3392	1/1	0.71	0.19	124,124,124,124	0
56	MG	2A	3235	1/1	0.71	0.57	97,97,97,97	0
56	MG	2E	302	1/1	0.71	0.23	96,96,96,96	0
56	MG	1A	4292	1/1	0.71	0.18	96,96,96,96	0
56	MG	1a	1800	1/1	0.71	0.26	119,119,119,119	0
56	MG	2A	3493	1/1	0.71	0.12	134,134,134,134	0
56	MG	1a	1778	1/1	0.71	0.18	126,126,126,126	0
56	MG	2A	3339	1/1	0.72	0.35	72,72,72,72	0
56	MG	1A	4622	1/1	0.72	0.19	115,115,115,115	0
56	MG	1A	4228	1/1	0.72	0.27	109,109,109,109	0
56	MG	2A	3255	1/1	0.72	0.20	126,126,126,126	0
56	MG	2A	3677	1/1	0.72	0.27	115,115,115,115	0
56	MG	2A	3482	1/1	0.72	0.18	117,117,117,117	0
56	MG	2A	3073	1/1	0.72	0.32	127,127,127,127	0
56	MG	1A	4889	1/1	0.72	0.10	61,61,61,61	0
56	MG	1A	4404	1/1	0.72	0.14	70,70,70,70	0
56	MG	1a	1874	1/1	0.72	0.12	196,196,196,196	0
56	MG	2A	3164	1/1	0.72	0.28	97,97,97,97	0
56	MG	2A	3697	1/1	0.72	0.23	128,128,128,128	0
56	MG	2A	3567	1/1	0.72	0.21	104,104,104,104	0
56	MG	2a	1866	1/1	0.72	0.32	138,138,138,138	0
56	MG	2A	3420	1/1	0.72	0.14	121,121,121,121	0
56	MG	1a	1610	1/1	0.72	0.25	90,90,90,90	0
56	MG	1B	205	1/1	0.72	0.23	87,87,87,87	0
56	MG	2A	3086	1/1	0.72	0.28	119,119,119,119	0
56	MG	2A	3626	1/1	0.72	0.12	158,158,158,158	0
56	MG	2A	3025	1/1	0.72	0.39	118,118,118,118	0
56	MG	1a	1836	1/1	0.72	0.09	225,225,225,225	0
56	MG	1A	4426	1/1	0.72	0.19	77,77,77,77	0
56	MG	2a	1876	1/1	0.72	0.35	147,147,147,147	0
56	MG	2A	3185	1/1	0.72	0.42	95,95,95,95	0
56	MG	2A	3579	1/1	0.72	0.18	115,115,115,115	0
56	MG	2A	3582	1/1	0.72	0.16	106,106,106,106	0
56	MG	1A	4095	1/1	0.72	0.22	62,62,62,62	0
56	MG	2A	3584	1/1	0.72	0.15	114,114,114,114	0
56	MG	2A	3850	1/1	0.72	0.31	109,109,109,109	0
56	MG	2A	3197	1/1	0.72	0.17	93,93,93,93	0
56	MG	1A	4304	1/1	0.72	0.31	81,81,81,81	0
56	MG	2A	3761	1/1	0.72	0.27	126,126,126,126	0
56	MG	1B	214	1/1	0.72	0.23	69,69,69,69	0
56	MG	1A	4305	1/1	0.72	0.28	82,82,82,82	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4011	1/1	0.72	0.17	70,70,70,70	0
56	MG	2a	1896	1/1	0.72	0.08	98,98,98,98	0
56	MG	2a	1837	1/1	0.72	0.11	240,240,240,240	0
56	MG	1a	1767	1/1	0.73	0.10	133,133,133,133	0
56	MG	1A	4458	1/1	0.73	0.31	60,60,60,60	0
56	MG	1A	4034	1/1	0.73	0.26	69,69,69,69	0
56	MG	2A	3433	1/1	0.73	0.33	92,92,92,92	0
56	MG	1a	1672	1/1	0.73	0.10	99,99,99,99	0
56	MG	1a	1702	1/1	0.73	0.10	181,181,181,181	0
56	MG	1A	4926	1/1	0.73	0.15	76,76,76,76	0
56	MG	2A	3239	1/1	0.73	0.35	108,108,108,108	0
56	MG	29	101	1/1	0.73	0.34	130,130,130,130	0
56	MG	2A	3721	1/1	0.73	0.10	118,118,118,118	0
56	MG	1A	4101	1/1	0.73	0.38	45,45,45,45	0
56	MG	1A	4317	1/1	0.73	0.23	106,106,106,106	0
56	MG	2a	1787	1/1	0.73	0.16	231,231,231,231	0
56	MG	1A	4490	1/1	0.73	0.16	89,89,89,89	0
56	MG	1a	1875	1/1	0.73	0.26	118,118,118,118	0
56	MG	1A	4014	1/1	0.73	0.21	87,87,87,87	0
56	MG	2A	3645	1/1	0.73	0.17	116,116,116,116	0
56	MG	2A	3744	1/1	0.73	0.14	105,105,105,105	0
56	MG	2A	3747	1/1	0.73	0.13	107,107,107,107	0
56	MG	1a	1714	1/1	0.73	0.22	118,118,118,118	0
56	MG	2A	3821	1/1	0.73	0.25	89,89,89,89	0
56	MG	1a	1748	1/1	0.73	0.12	145,145,145,145	0
56	MG	1A	4592	1/1	0.73	0.11	90,90,90,90	0
56	MG	2a	1802	1/1	0.73	0.16	166,166,166,166	0
56	MG	2A	3830	1/1	0.73	0.32	125,125,125,125	0
56	MG	1a	1795	1/1	0.73	0.23	107,107,107,107	0
56	MG	2F	303	1/1	0.73	0.22	126,126,126,126	0
56	MG	1A	5015	1/1	0.73	0.13	89,89,89,89	0
56	MG	2A	3204	1/1	0.73	0.31	111,111,111,111	0
56	MG	2A	3137	1/1	0.73	0.19	134,134,134,134	0
56	MG	1A	4832	1/1	0.73	0.16	71,71,71,71	0
56	MG	1a	1661	1/1	0.73	0.29	117,117,117,117	0
56	MG	2a	1717	1/1	0.73	0.16	143,143,143,143	0
56	MG	1A	4021	1/1	0.73	0.25	76,76,76,76	0
56	MG	2A	3210	1/1	0.73	0.40	93,93,93,93	0
56	MG	1A	4507	1/1	0.73	0.20	106,106,106,106	0
56	MG	2a	1635	1/1	0.73	0.14	147,147,147,147	0
56	MG	2A	3750	1/1	0.74	0.34	104,104,104,104	0
56	MG	2A	3372	1/1	0.74	0.33	107,107,107,107	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3418	1/1	0.74	0.18	117,117,117,117	0
56	MG	2A	3753	1/1	0.74	0.15	97,97,97,97	0
56	MG	2A	3202	1/1	0.74	0.21	114,114,114,114	0
56	MG	1a	1736	1/1	0.74	0.14	145,145,145,145	0
56	MG	2a	1843	1/1	0.74	0.18	253,253,253,253	0
56	MG	2a	1736	1/1	0.74	0.18	137,137,137,137	0
56	MG	1A	4452	1/1	0.74	0.36	64,64,64,64	0
56	MG	1a	1717	1/1	0.74	0.26	110,110,110,110	0
56	MG	1A	4700	1/1	0.74	0.23	79,79,79,79	0
56	MG	1A	4278	1/1	0.74	0.20	65,65,65,65	0
56	MG	1a	1779	1/1	0.74	0.20	122,122,122,122	0
56	MG	2a	1911	1/1	0.74	0.14	140,140,140,140	0
56	MG	2A	3684	1/1	0.74	0.27	94,94,94,94	0
56	MG	2A	3520	1/1	0.74	0.28	91,91,91,91	0
56	MG	1A	4757	1/1	0.74	0.14	119,119,119,119	0
56	MG	2A	3060	1/1	0.74	0.30	85,85,85,85	0
56	MG	2a	1748	1/1	0.74	0.27	114,114,114,114	0
56	MG	1A	4070	1/1	0.74	0.20	67,67,67,67	0
56	MG	2a	1751	1/1	0.74	0.22	116,116,116,116	0
56	MG	2v	703	1/1	0.74	0.15	154,154,154,154	0
56	MG	1A	4403	1/1	0.74	0.13	62,62,62,62	0
56	MG	2A	3219	1/1	0.74	0.30	110,110,110,110	0
56	MG	2A	3346	1/1	0.74	0.41	102,102,102,102	0
56	MG	2A	3347	1/1	0.74	0.18	99,99,99,99	0
56	MG	2A	3068	1/1	0.74	0.18	148,148,148,148	0
56	MG	1A	4291	1/1	0.74	0.24	71,71,71,71	0
56	MG	2A	3361	1/1	0.74	0.28	94,94,94,94	0
56	MG	1a	1786	1/1	0.74	0.22	119,119,119,119	0
56	MG	2A	3021	1/1	0.74	0.22	112,112,112,112	0
56	MG	1a	1919	1/1	0.74	0.15	144,144,144,144	0
56	MG	2A	3646	1/1	0.74	0.20	110,110,110,110	0
56	MG	1A	4112	1/1	0.74	0.14	59,59,59,59	0
56	MG	2A	3648	1/1	0.74	0.11	137,137,137,137	0
56	MG	2i	202	1/1	0.74	0.12	255,255,255,255	0
56	MG	2i	203	1/1	0.74	0.16	234,234,234,234	0
56	MG	2a	1726	1/1	0.74	0.19	108,108,108,108	0
56	MG	2a	1605	1/1	0.74	0.21	127,127,127,127	0
56	MG	2A	3370	1/1	0.74	0.30	99,99,99,99	0
56	MG	2a	1833	1/1	0.74	0.17	161,161,161,161	0
56	MG	1A	4624	1/1	0.75	0.21	118,118,118,118	0
56	MG	2A	3402	1/1	0.75	0.16	112,112,112,112	0
56	MG	2a	1623	1/1	0.75	0.10	182,182,182,182	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3541	1/1	0.75	0.24	123,123,123,123	0
56	MG	2A	3056	1/1	0.75	0.14	107,107,107,107	0
56	MG	1A	4288	1/1	0.75	0.20	74,74,74,74	0
56	MG	2A	3558	1/1	0.75	0.21	93,93,93,93	0
56	MG	2A	3354	1/1	0.75	0.39	79,79,79,79	0
56	MG	2a	1919	1/1	0.75	0.10	155,155,155,155	0
56	MG	1a	1848	1/1	0.75	0.17	178,178,178,178	0
56	MG	2A	3773	1/1	0.75	0.29	115,115,115,115	0
56	MG	2A	3062	1/1	0.75	0.12	85,85,85,85	0
56	MG	2A	3279	1/1	0.75	0.46	80,80,80,80	0
56	MG	1a	1664	1/1	0.75	0.15	115,115,115,115	0
56	MG	1a	1666	1/1	0.75	0.30	116,116,116,116	0
56	MG	1a	1719	1/1	0.75	0.17	102,102,102,102	0
56	MG	1A	4372	1/1	0.75	0.30	57,57,57,57	0
56	MG	2A	3627	1/1	0.75	0.17	165,165,165,165	0
56	MG	1O	201	1/1	0.75	0.20	82,82,82,82	0
56	MG	2A	3383	1/1	0.75	0.28	100,100,100,100	0
56	MG	1a	1807	1/1	0.75	0.12	100,100,100,100	0
56	MG	1A	4383	1/1	0.75	0.38	65,65,65,65	0
56	MG	1A	4554	1/1	0.75	0.27	79,79,79,79	0
56	MG	1a	1751	1/1	0.75	0.18	131,131,131,131	0
56	MG	1A	4300	1/1	0.75	0.22	90,90,90,90	0
56	MG	1B	208	1/1	0.75	0.17	94,94,94,94	0
56	MG	1A	4884	1/1	0.75	0.14	84,84,84,84	0
56	MG	2A	3327	1/1	0.75	0.43	91,91,91,91	0
56	MG	1o	101	1/1	0.75	0.23	113,113,113,113	0
56	MG	2A	3091	1/1	0.75	0.31	112,112,112,112	0
56	MG	1a	1760	1/1	0.75	0.21	114,114,114,114	0
56	MG	2A	3451	1/1	0.75	0.32	99,99,99,99	0
56	MG	2a	1616	1/1	0.75	0.18	139,139,139,139	0
56	MG	1A	4051	1/1	0.75	0.21	100,100,100,100	0
56	MG	1A	5012	1/1	0.75	0.10	115,115,115,115	0
56	MG	2a	1907	1/1	0.75	0.08	256,256,256,256	0
56	MG	1A	4171	1/1	0.76	0.36	49,49,49,49	0
56	MG	1A	5005	1/1	0.76	0.11	86,86,86,86	0
56	MG	1A	4443	1/1	0.76	0.34	75,75,75,75	0
56	MG	1a	1635	1/1	0.76	0.23	121,121,121,121	0
56	MG	2A	3487	1/1	0.76	0.08	145,145,145,145	0
56	MG	2a	1793	1/1	0.76	0.09	251,251,251,251	0
56	MG	2A	3155	1/1	0.76	0.07	100,100,100,100	0
56	MG	1A	4820	1/1	0.76	0.15	72,72,72,72	0
56	MG	2a	1882	1/1	0.76	0.12	163,163,163,163	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3236	1/1	0.76	0.57	96,96,96,96	0
56	MG	1A	4449	1/1	0.76	0.12	79,79,79,79	0
56	MG	1A	4301	1/1	0.76	0.22	102,102,102,102	0
56	MG	1B	216	1/1	0.76	0.43	69,69,69,69	0
56	MG	2A	3508	1/1	0.76	0.27	97,97,97,97	0
56	MG	1A	4378	1/1	0.76	0.25	83,83,83,83	0
56	MG	2A	3349	1/1	0.76	0.24	104,104,104,104	0
56	MG	2A	3674	1/1	0.76	0.13	145,145,145,145	0
56	MG	1d	305	1/1	0.76	0.14	142,142,142,142	0
56	MG	1A	4538	1/1	0.76	0.11	83,83,83,83	0
56	MG	2A	3355	1/1	0.76	0.46	89,89,89,89	0
56	MG	2A	3522	1/1	0.76	0.27	98,98,98,98	0
56	MG	2O	301	1/1	0.76	0.17	136,136,136,136	0
56	MG	1A	4540	1/1	0.76	0.15	77,77,77,77	0
56	MG	1a	1715	1/1	0.76	0.24	123,123,123,123	0
56	MG	1A	4742	1/1	0.76	0.24	73,73,73,73	0
56	MG	1Y	301	1/1	0.76	0.14	85,85,85,85	0
56	MG	2A	3195	1/1	0.76	0.36	90,90,90,90	0
56	MG	1a	1723	1/1	0.76	0.31	118,118,118,118	0
56	MG	2A	3599	1/1	0.76	0.21	122,122,122,122	0
56	MG	2A	3604	1/1	0.76	0.20	110,110,110,110	0
56	MG	1a	1724	1/1	0.76	0.13	126,126,126,126	0
56	MG	1a	1725	1/1	0.76	0.20	117,117,117,117	0
56	MG	1A	4746	1/1	0.76	0.21	76,76,76,76	0
56	MG	2A	3535	1/1	0.76	0.10	141,141,141,141	0
56	MG	1a	1729	1/1	0.76	0.38	143,143,143,143	0
56	MG	2A	3614	1/1	0.76	0.21	102,102,102,102	0
56	MG	1A	4747	1/1	0.76	0.16	84,84,84,84	0
56	MG	1A	4546	1/1	0.76	0.14	104,104,104,104	0
56	MG	1a	1770	1/1	0.76	0.08	101,101,101,101	0
56	MG	2A	3545	1/1	0.76	0.31	97,97,97,97	0
56	MG	2a	1858	1/1	0.76	0.24	149,149,149,149	0
56	MG	2e	201	1/1	0.76	0.26	122,122,122,122	0
56	MG	2A	3548	1/1	0.76	0.16	104,104,104,104	0
56	MG	1A	4096	1/1	0.76	0.25	55,55,55,55	0
56	MG	2f	302	1/1	0.76	0.13	143,143,143,143	0
56	MG	2A	3127	1/1	0.76	0.17	135,135,135,135	0
56	MG	1A	4932	1/1	0.76	0.07	153,153,153,153	0
56	MG	2A	3005	1/1	0.76	0.24	102,102,102,102	0
56	MG	2A	3632	1/1	0.76	0.38	110,110,110,110	0
56	MG	1A	4779	1/1	0.76	0.18	68,68,68,68	0
56	MG	1A	4514	1/1	0.76	0.31	81,81,81,81	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3364	1/1	0.77	0.40	84,84,84,84	0
56	MG	2A	3292	1/1	0.77	0.36	79,79,79,79	0
56	MG	1a	1630	1/1	0.77	0.25	108,108,108,108	0
56	MG	2A	3300	1/1	0.77	0.31	96,96,96,96	0
56	MG	2A	3154	1/1	0.77	0.19	92,92,92,92	0
56	MG	1A	4164	1/1	0.77	0.25	58,58,58,58	0
56	MG	2A	3794	1/1	0.77	0.14	113,113,113,113	0
56	MG	2a	1685	1/1	0.77	0.13	167,167,167,167	0
56	MG	2A	3381	1/1	0.77	0.27	98,98,98,98	0
56	MG	2A	3307	1/1	0.77	0.12	92,92,92,92	0
56	MG	1A	4464	1/1	0.77	0.31	66,66,66,66	0
56	MG	1A	4013	1/1	0.77	0.13	81,81,81,81	0
56	MG	2A	3326	1/1	0.77	0.29	85,85,85,85	0
56	MG	1a	1866	1/1	0.77	0.12	224,224,224,224	0
56	MG	1A	4441	1/1	0.77	0.30	78,78,78,78	0
56	MG	2A	3426	1/1	0.77	0.38	93,93,93,93	0
56	MG	1A	4311	1/1	0.77	0.18	101,101,101,101	0
56	MG	1A	4948	1/1	0.77	0.11	62,62,62,62	0
56	MG	1A	4780	1/1	0.77	0.18	76,76,76,76	0
56	MG	2a	1920	1/1	0.77	0.14	222,222,222,222	0
56	MG	1A	4172	1/1	0.77	0.32	58,58,58,58	0
56	MG	2a	1613	1/1	0.77	0.31	147,147,147,147	0
56	MG	2A	3826	1/1	0.77	0.35	114,114,114,114	0
56	MG	2A	3183	1/1	0.77	0.21	124,124,124,124	0
56	MG	1a	1881	1/1	0.77	0.08	151,151,151,151	0
56	MG	1A	4080	1/1	0.77	0.30	55,55,55,55	0
56	MG	2a	1618	1/1	0.77	0.16	145,145,145,145	0
56	MG	2A	3135	1/1	0.77	0.30	105,105,105,105	0
56	MG	2a	1710	1/1	0.77	0.35	131,131,131,131	0
56	MG	2A	3835	1/1	0.77	0.32	121,121,121,121	0
56	MG	1a	1642	1/1	0.77	0.18	112,112,112,112	0
56	MG	2a	1881	1/1	0.77	0.13	171,171,171,171	0
56	MG	1a	1801	1/1	0.77	0.13	105,105,105,105	0
56	MG	2Q	203	1/1	0.77	0.10	107,107,107,107	0
56	MG	2a	1813	1/1	0.77	0.12	143,143,143,143	0
56	MG	2A	3849	1/1	0.77	0.14	153,153,153,153	0
56	MG	1a	1755	1/1	0.77	0.19	100,100,100,100	0
56	MG	2A	3470	1/1	0.77	0.29	104,104,104,104	0
56	MG	2A	3143	1/1	0.77	0.17	89,89,89,89	0
56	MG	2a	1826	1/1	0.77	0.18	162,162,162,162	0
56	MG	2A	3781	1/1	0.77	0.30	80,80,80,80	0
56	MG	2k	201	1/1	0.77	0.10	158,158,158,158	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1694	1/1	0.77	0.18	125,125,125,125	0
56	MG	2A	3445	1/1	0.78	0.19	86,86,86,86	0
56	MG	1a	1898	1/1	0.78	0.21	108,108,108,108	0
56	MG	2A	3725	1/1	0.78	0.28	79,79,79,79	0
56	MG	2A	3460	1/1	0.78	0.35	106,106,106,106	0
56	MG	1A	4058	1/1	0.78	0.26	67,67,67,67	0
56	MG	2A	3546	1/1	0.78	0.32	97,97,97,97	0
56	MG	2A	3834	1/1	0.78	0.30	115,115,115,115	0
56	MG	1a	1769	1/1	0.78	0.09	131,131,131,131	0
56	MG	2A	3550	1/1	0.78	0.21	104,104,104,104	0
56	MG	1A	4804	1/1	0.78	0.20	89,89,89,89	0
56	MG	1A	4547	1/1	0.78	0.15	129,129,129,129	0
56	MG	2A	3232	1/1	0.78	0.60	95,95,95,95	0
56	MG	2A	3032	1/1	0.78	0.15	108,108,108,108	0
56	MG	2a	1795	1/1	0.78	0.09	111,111,111,111	0
56	MG	2A	3101	1/1	0.78	0.10	133,133,133,133	0
56	MG	1a	1663	1/1	0.78	0.26	115,115,115,115	0
56	MG	2A	3044	1/1	0.78	0.27	107,107,107,107	0
56	MG	1a	1908	1/1	0.78	0.21	131,131,131,131	0
56	MG	1A	4722	1/1	0.78	0.15	75,75,75,75	0
56	MG	2A	3059	1/1	0.78	0.19	88,88,88,88	0
56	MG	2a	1890	1/1	0.78	0.17	125,125,125,125	0
56	MG	2A	3492	1/1	0.78	0.08	120,120,120,120	0
56	MG	1A	4213	1/1	0.78	0.27	57,57,57,57	0
56	MG	1A	4077	1/1	0.78	0.37	78,78,78,78	0
56	MG	1y	101	1/1	0.78	0.24	87,87,87,87	0
56	MG	2A	3249	1/1	0.78	0.18	128,128,128,128	0
56	MG	1a	1913	1/1	0.78	0.29	97,97,97,97	0
56	MG	2A	3350	1/1	0.78	0.36	104,104,104,104	0
56	MG	2a	1682	1/1	0.78	0.18	131,131,131,131	0
56	MG	1A	4966	1/1	0.78	0.13	83,83,83,83	0
56	MG	2A	3775	1/1	0.78	0.13	114,114,114,114	0
56	MG	2A	3069	1/1	0.78	0.20	149,149,149,149	0
56	MG	1a	1692	1/1	0.78	0.18	129,129,129,129	0
56	MG	2A	3665	1/1	0.78	0.17	129,129,129,129	0
56	MG	1B	224	1/1	0.78	0.24	83,83,83,83	0
56	MG	2A	3256	1/1	0.78	0.21	92,92,92,92	0
56	MG	2A	3266	1/1	0.78	0.18	86,86,86,86	0
56	MG	1a	1697	1/1	0.78	0.17	142,142,142,142	0
56	MG	1A	4069	1/1	0.78	0.25	72,72,72,72	0
56	MG	1a	1673	1/1	0.78	0.16	117,117,117,117	0
56	MG	2A	3280	1/1	0.78	0.23	89,89,89,89	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2F	301	1/1	0.78	0.24	133,133,133,133	0
56	MG	1A	4230	1/1	0.78	0.08	102,102,102,102	0
56	MG	2A	3530	1/1	0.78	0.19	133,133,133,133	0
56	MG	1A	4088	1/1	0.78	0.18	66,66,66,66	0
56	MG	1A	4625	1/1	0.78	0.14	118,118,118,118	0
56	MG	1a	1892	1/1	0.78	0.19	117,117,117,117	0
56	MG	2a	1848	1/1	0.78	0.13	157,157,157,157	0
56	MG	2A	3695	1/1	0.78	0.14	84,84,84,84	0
56	MG	1A	4374	1/1	0.78	0.18	94,94,94,94	0
56	MG	2A	3812	1/1	0.78	0.18	144,144,144,144	0
56	MG	1a	1799	1/1	0.78	0.23	113,113,113,113	0
56	MG	1A	4677	1/1	0.78	0.20	102,102,102,102	0
56	MG	2A	3717	1/1	0.78	0.34	108,108,108,108	0
56	MG	2A	3537	1/1	0.78	0.14	73,73,73,73	0
56	MG	1A	4308	1/1	0.79	0.15	98,98,98,98	0
56	MG	2A	3469	1/1	0.79	0.08	115,115,115,115	0
56	MG	1y	104	1/1	0.79	0.12	99,99,99,99	0
56	MG	2A	3693	1/1	0.79	0.07	86,86,86,86	0
56	MG	1A	4327	1/1	0.79	0.26	66,66,66,66	0
56	MG	1A	4796	1/1	0.79	0.18	100,100,100,100	0
56	MG	1A	4798	1/1	0.79	0.20	62,62,62,62	0
56	MG	2A	3478	1/1	0.79	0.13	127,127,127,127	0
56	MG	2A	3006	1/1	0.79	0.22	101,101,101,101	0
56	MG	2A	3623	1/1	0.79	0.10	147,147,147,147	0
56	MG	2A	3556	1/1	0.79	0.19	96,96,96,96	0
56	MG	1A	4726	1/1	0.79	0.16	79,79,79,79	0
56	MG	2a	1806	1/1	0.79	0.26	116,116,116,116	0
56	MG	2N	201	1/1	0.79	0.13	113,113,113,113	0
56	MG	2A	3009	1/1	0.79	0.22	94,94,94,94	0
56	MG	1A	4505	1/1	0.79	0.29	92,92,92,92	0
56	MG	2A	3121	1/1	0.79	0.20	125,125,125,125	0
56	MG	1A	4193	1/1	0.79	0.29	64,64,64,64	0
56	MG	2A	3348	1/1	0.79	0.29	90,90,90,90	0
56	MG	1a	1883	1/1	0.79	0.17	124,124,124,124	0
56	MG	2A	3254	1/1	0.79	0.20	122,122,122,122	0
56	MG	1A	4466	1/1	0.79	0.37	56,56,56,56	0
56	MG	2a	1827	1/1	0.79	0.13	122,122,122,122	0
56	MG	1b	309	1/1	0.79	0.12	171,171,171,171	0
56	MG	1A	4826	1/1	0.79	0.11	91,91,91,91	0
56	MG	1A	4830	1/1	0.79	0.16	76,76,76,76	0
56	MG	20	101	1/1	0.79	0.38	128,128,128,128	0
56	MG	2A	3136	1/1	0.79	0.40	110,110,110,110	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4163	1/1	0.79	0.26	57,57,57,57	0
56	MG	2A	3842	1/1	0.79	0.14	99,99,99,99	0
56	MG	1A	4756	1/1	0.79	0.21	106,106,106,106	0
56	MG	1a	1759	1/1	0.79	0.26	104,104,104,104	0
56	MG	28	101	1/1	0.79	0.67	109,109,109,109	0
56	MG	1A	4642	1/1	0.79	0.10	67,67,67,67	0
56	MG	1a	1761	1/1	0.79	0.18	112,112,112,112	0
56	MG	1a	1622	1/1	0.79	0.11	99,99,99,99	0
56	MG	1A	4881	1/1	0.79	0.20	82,82,82,82	0
56	MG	1a	1625	1/1	0.79	0.41	80,80,80,80	0
56	MG	2A	3221	1/1	0.79	0.16	114,114,114,114	0
56	MG	2a	1857	1/1	0.79	0.22	145,145,145,145	0
56	MG	2A	3671	1/1	0.79	0.32	85,85,85,85	0
56	MG	2a	1859	1/1	0.79	0.08	160,160,160,160	0
56	MG	1a	1861	1/1	0.79	0.12	216,216,216,216	0
56	MG	1a	1737	1/1	0.79	0.12	74,74,74,74	0
56	MG	2A	3162	1/1	0.79	0.49	102,102,102,102	0
56	MG	1A	4348	1/1	0.79	0.46	62,62,62,62	0
56	MG	2A	3449	1/1	0.79	0.23	84,84,84,84	0
56	MG	1a	1651	1/1	0.79	0.23	121,121,121,121	0
56	MG	1A	4307	1/1	0.79	0.16	96,96,96,96	0
56	MG	2A	3682	1/1	0.79	0.14	123,123,123,123	0
56	MG	2A	3308	1/1	0.79	0.15	100,100,100,100	0
56	MG	2A	3309	1/1	0.79	0.12	108,108,108,108	0
56	MG	1z	101	1/1	0.80	0.18	151,151,151,151	0
56	MG	2A	3814	1/1	0.80	0.09	128,128,128,128	0
56	MG	1A	4448	1/1	0.80	0.36	78,78,78,78	0
56	MG	1a	1794	1/1	0.80	0.07	84,84,84,84	0
56	MG	1A	4584	1/1	0.80	0.11	105,105,105,105	0
56	MG	2A	3724	1/1	0.80	0.14	91,91,91,91	0
56	MG	1A	4251	1/1	0.80	0.19	60,60,60,60	0
56	MG	2h	204	1/1	0.80	0.11	164,164,164,164	0
56	MG	2V	201	1/1	0.80	0.12	129,129,129,129	0
56	MG	2A	3825	1/1	0.80	0.16	97,97,97,97	0
56	MG	2A	3555	1/1	0.80	0.39	107,107,107,107	0
56	MG	1A	4136	1/1	0.80	0.21	92,92,92,92	0
56	MG	2A	3557	1/1	0.80	0.19	90,90,90,90	0
56	MG	2A	3737	1/1	0.80	0.26	100,100,100,100	0
56	MG	2A	3014	1/1	0.80	0.25	108,108,108,108	0
56	MG	1A	4911	1/1	0.80	0.13	62,62,62,62	0
56	MG	1a	1619	1/1	0.80	0.25	95,95,95,95	0
56	MG	1A	4315	1/1	0.80	0.21	111,111,111,111	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4460	1/1	0.80	0.22	77,77,77,77	0
56	MG	26	103	1/1	0.80	0.24	119,119,119,119	0
56	MG	1A	4520	1/1	0.80	0.24	75,75,75,75	0
56	MG	2A	3321	1/1	0.80	0.21	86,86,86,86	0
56	MG	1a	1656	1/1	0.80	0.30	102,102,102,102	0
56	MG	1e	302	1/1	0.80	0.14	147,147,147,147	0
56	MG	1A	4640	1/1	0.80	0.20	69,69,69,69	0
56	MG	2A	3165	1/1	0.80	0.37	98,98,98,98	0
56	MG	2A	3332	1/1	0.80	0.18	97,97,97,97	0
56	MG	2a	1604	1/1	0.80	0.15	148,148,148,148	0
56	MG	2B	205	1/1	0.80	0.18	119,119,119,119	0
56	MG	2A	3170	1/1	0.80	0.17	90,90,90,90	0
56	MG	2A	3024	1/1	0.80	0.16	123,123,123,123	0
56	MG	2B	211	1/1	0.80	0.10	88,88,88,88	0
56	MG	1A	4211	1/1	0.80	0.44	57,57,57,57	0
56	MG	1A	4647	1/1	0.80	0.18	68,68,68,68	0
56	MG	1a	1847	1/1	0.80	0.10	184,184,184,184	0
56	MG	1A	4178	1/1	0.80	0.21	60,60,60,60	0
56	MG	1a	1811	1/1	0.80	0.27	99,99,99,99	0
56	MG	1A	4180	1/1	0.80	0.44	48,48,48,48	0
56	MG	2A	3034	1/1	0.80	0.16	100,100,100,100	0
56	MG	2A	3035	1/1	0.80	0.09	116,116,116,116	0
56	MG	2A	3038	1/1	0.80	0.07	69,69,69,69	0
56	MG	1A	4687	1/1	0.80	0.21	88,88,88,88	0
56	MG	2A	3257	1/1	0.80	0.32	87,87,87,87	0
56	MG	2A	3259	1/1	0.80	0.24	82,82,82,82	0
56	MG	1q	201	1/1	0.80	0.21	115,115,115,115	0
56	MG	1A	4286	1/1	0.80	0.21	71,71,71,71	0
56	MG	1A	4167	1/1	0.80	0.40	58,58,58,58	0
56	MG	1A	4352	1/1	0.80	0.25	61,61,61,61	0
56	MG	1A	4359	1/1	0.80	0.21	71,71,71,71	0
56	MG	1A	4841	1/1	0.80	0.27	103,103,103,103	0
56	MG	2A	3446	1/1	0.80	0.35	84,84,84,84	0
56	MG	1E	302	1/1	0.80	0.36	59,59,59,59	0
56	MG	2a	1850	1/1	0.80	0.17	154,154,154,154	0
56	MG	2E	303	1/1	0.80	0.04	81,81,81,81	0
56	MG	1A	4134	1/1	0.80	0.29	72,72,72,72	0
56	MG	1A	4549	1/1	0.80	0.16	125,125,125,125	0
56	MG	2A	3700	1/1	0.80	0.16	113,113,113,113	0
56	MG	1T	205	1/1	0.80	0.27	109,109,109,109	0
56	MG	1A	4079	1/1	0.81	0.31	58,58,58,58	0
56	MG	1A	5010	1/1	0.81	0.14	75,75,75,75	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1O	205	1/1	0.81	0.16	112,112,112,112	0
56	MG	2A	3476	1/1	0.81	0.12	116,116,116,116	0
56	MG	2a	1752	1/1	0.81	0.12	134,134,134,134	0
56	MG	1A	4320	1/1	0.81	0.20	91,91,91,91	0
56	MG	1A	4159	1/1	0.81	0.32	50,50,50,50	0
56	MG	1A	4712	1/1	0.81	0.25	76,76,76,76	0
56	MG	2A	3168	1/1	0.81	0.52	90,90,90,90	0
56	MG	2a	1611	1/1	0.81	0.09	143,143,143,143	0
56	MG	2a	1759	1/1	0.81	0.10	218,218,218,218	0
56	MG	1A	4390	1/1	0.81	0.20	82,82,82,82	0
56	MG	1A	4161	1/1	0.81	0.30	58,58,58,58	0
56	MG	2A	3174	1/1	0.81	0.22	109,109,109,109	0
56	MG	1a	1603	1/1	0.81	0.20	98,98,98,98	0
56	MG	1A	4727	1/1	0.81	0.12	82,82,82,82	0
56	MG	2A	3655	1/1	0.81	0.23	117,117,117,117	0
56	MG	2a	1689	1/1	0.81	0.25	156,156,156,156	0
56	MG	2A	3500	1/1	0.81	0.33	93,93,93,93	0
56	MG	1A	4271	1/1	0.81	0.23	62,62,62,62	0
56	MG	1A	4734	1/1	0.81	0.12	64,64,64,64	0
56	MG	1A	4220	1/1	0.81	0.19	60,60,60,60	0
56	MG	1A	4886	1/1	0.81	0.13	67,67,67,67	0
56	MG	2k	202	1/1	0.81	0.24	124,124,124,124	0
56	MG	1A	4006	1/1	0.81	0.13	59,59,59,59	0
56	MG	2A	3509	1/1	0.81	0.23	93,93,93,93	0
56	MG	1A	4428	1/1	0.81	0.13	59,59,59,59	0
56	MG	1A	4429	1/1	0.81	0.56	54,54,54,54	0
56	MG	1B	201	1/1	0.81	0.21	106,106,106,106	0
56	MG	1A	4895	1/1	0.81	0.28	59,59,59,59	0
56	MG	1A	4618	1/1	0.81	0.12	95,95,95,95	0
56	MG	2A	3262	1/1	0.81	0.29	73,73,73,73	0
56	MG	1A	4431	1/1	0.81	0.22	72,72,72,72	0
56	MG	2A	3797	1/1	0.81	0.17	97,97,97,97	0
56	MG	2p	101	1/1	0.81	0.22	154,154,154,154	0
56	MG	2A	3359	1/1	0.81	0.43	84,84,84,84	0
56	MG	1A	4432	1/1	0.81	0.09	95,95,95,95	0
56	MG	2A	3427	1/1	0.81	0.23	95,95,95,95	0
56	MG	2A	3362	1/1	0.81	0.14	99,99,99,99	0
56	MG	2A	3807	1/1	0.81	0.11	132,132,132,132	0
56	MG	2P	203	1/1	0.81	0.30	113,113,113,113	0
56	MG	2A	3128	1/1	0.81	0.35	130,130,130,130	0
56	MG	2A	3276	1/1	0.81	0.25	85,85,85,85	0
56	MG	2a	1646	1/1	0.81	0.08	120,120,120,120	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1889	1/1	0.81	0.17	127,127,127,127	0
56	MG	2A	3603	1/1	0.81	0.20	103,103,103,103	0
56	MG	1B	210	1/1	0.81	0.20	89,89,89,89	0
56	MG	1A	4227	1/1	0.81	0.12	86,86,86,86	0
56	MG	2A	3816	1/1	0.81	0.16	121,121,121,121	0
56	MG	2A	3608	1/1	0.81	0.11	111,111,111,111	0
56	MG	2A	3713	1/1	0.81	0.25	112,112,112,112	0
56	MG	2A	3609	1/1	0.81	0.13	132,132,132,132	0
56	MG	1A	4365	1/1	0.81	0.31	58,58,58,58	0
56	MG	1A	4446	1/1	0.81	0.27	59,59,59,59	0
56	MG	1A	4063	1/1	0.81	0.18	64,64,64,64	0
56	MG	2A	3827	1/1	0.81	0.15	105,105,105,105	0
56	MG	1A	4010	1/1	0.81	0.14	73,73,73,73	0
56	MG	2a	1809	1/1	0.81	0.11	122,122,122,122	0
56	MG	2A	3017	1/1	0.81	0.12	111,111,111,111	0
56	MG	2A	3539	1/1	0.81	0.12	125,125,125,125	0
56	MG	2A	3450	1/1	0.81	0.26	85,85,85,85	0
56	MG	2a	1817	1/1	0.81	0.11	133,133,133,133	0
56	MG	1A	4243	1/1	0.81	0.16	65,65,65,65	0
56	MG	1A	4972	1/1	0.81	0.17	77,77,77,77	0
56	MG	1A	4815	1/1	0.81	0.18	77,77,77,77	0
56	MG	2A	3151	1/1	0.81	0.09	97,97,97,97	0
56	MG	1d	302	1/1	0.81	0.11	149,149,149,149	0
56	MG	2A	3551	1/1	0.81	0.20	104,104,104,104	0
56	MG	1E	301	1/1	0.81	0.35	57,57,57,57	0
56	MG	1a	1890	1/1	0.82	0.07	218,218,218,218	0
56	MG	2A	3543	1/1	0.82	0.16	100,100,100,100	0
56	MG	1B	204	1/1	0.82	0.14	93,93,93,93	0
56	MG	1a	1846	1/1	0.82	0.20	193,193,193,193	0
56	MG	2A	3547	1/1	0.82	0.21	104,104,104,104	0
56	MG	1A	4965	1/1	0.82	0.41	66,66,66,66	0
56	MG	2A	3481	1/1	0.82	0.23	112,112,112,112	0
56	MG	1a	1618	1/1	0.82	0.29	94,94,94,94	0
56	MG	1A	4393	1/1	0.82	0.16	84,84,84,84	0
56	MG	1a	1850	1/1	0.82	0.29	113,113,113,113	0
56	MG	2A	3616	1/1	0.82	0.22	93,93,93,93	0
56	MG	2A	3617	1/1	0.82	0.29	102,102,102,102	0
56	MG	2A	3554	1/1	0.82	0.18	89,89,89,89	0
56	MG	1A	4323	1/1	0.82	0.21	85,85,85,85	0
56	MG	2D	301	1/1	0.82	0.11	74,74,74,74	0
56	MG	2A	3356	1/1	0.82	0.28	80,80,80,80	0
56	MG	2A	3029	1/1	0.82	0.18	105,105,105,105	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1B	209	1/1	0.82	0.25	89,89,89,89	0
56	MG	1A	4053	1/1	0.82	0.22	112,112,112,112	0
56	MG	1A	4155	1/1	0.82	0.24	60,60,60,60	0
56	MG	1A	4867	1/1	0.82	0.19	58,58,58,58	0
56	MG	1A	4417	1/1	0.82	0.34	52,52,52,52	0
56	MG	2A	3507	1/1	0.82	0.14	128,128,128,128	0
56	MG	2A	3634	1/1	0.82	0.17	104,104,104,104	0
56	MG	1A	4656	1/1	0.82	0.23	80,80,80,80	0
56	MG	2A	3637	1/1	0.82	0.32	88,88,88,88	0
56	MG	2a	1904	1/1	0.82	0.12	245,245,245,245	0
56	MG	2A	3040	1/1	0.82	0.17	116,116,116,116	0
56	MG	1A	4052	1/1	0.82	0.27	92,92,92,92	0
56	MG	1B	220	1/1	0.82	0.27	79,79,79,79	0
56	MG	2A	3745	1/1	0.82	0.37	112,112,112,112	0
56	MG	2A	3371	1/1	0.82	0.11	113,113,113,113	0
56	MG	1A	4375	1/1	0.82	0.44	65,65,65,65	0
56	MG	1A	4463	1/1	0.82	0.20	62,62,62,62	0
56	MG	1B	225	1/1	0.82	0.14	92,92,92,92	0
56	MG	1A	4695	1/1	0.82	0.23	74,74,74,74	0
56	MG	20	103	1/1	0.82	0.19	97,97,97,97	0
56	MG	1A	4087	1/1	0.82	0.07	69,69,69,69	0
56	MG	2A	3845	1/1	0.82	0.10	85,85,85,85	0
56	MG	1A	4908	1/1	0.82	0.23	64,64,64,64	0
56	MG	1A	4269	1/1	0.82	0.11	69,69,69,69	0
56	MG	2A	3011	1/1	0.82	0.21	104,104,104,104	0
56	MG	2c	301	1/1	0.82	0.06	225,225,225,225	0
56	MG	1A	4216	1/1	0.82	0.18	62,62,62,62	0
56	MG	2A	3123	1/1	0.82	0.10	133,133,133,133	0
56	MG	1A	4723	1/1	0.82	0.13	77,77,77,77	0
56	MG	1A	4619	1/1	0.82	0.10	103,103,103,103	0
56	MG	2A	3666	1/1	0.82	0.35	101,101,101,101	0
56	MG	2A	3462	1/1	0.82	0.24	104,104,104,104	0
56	MG	1A	4621	1/1	0.82	0.21	114,114,114,114	0
56	MG	1A	4935	1/1	0.82	0.20	67,67,67,67	0
56	MG	1A	4526	1/1	0.82	0.09	54,54,54,54	0
56	MG	1A	4360	1/1	0.82	0.12	88,88,88,88	0
56	MG	2A	3343	1/1	0.82	0.31	89,89,89,89	0
56	MG	2A	3345	1/1	0.82	0.26	83,83,83,83	0
56	MG	2A	3382	1/1	0.83	0.28	101,101,101,101	0
56	MG	1A	4519	1/1	0.83	0.23	94,94,94,94	0
56	MG	1A	4662	1/1	0.83	0.19	87,87,87,87	0
56	MG	2A	3479	1/1	0.83	0.12	122,122,122,122	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4484	1/1	0.83	0.20	60,60,60,60	0
56	MG	1S	202	1/1	0.83	0.15	92,92,92,92	0
56	MG	2d	302	1/1	0.83	0.11	164,164,164,164	0
56	MG	1a	1893	1/1	0.83	0.23	98,98,98,98	0
56	MG	1A	4764	1/1	0.83	0.13	64,64,64,64	0
56	MG	1A	4767	1/1	0.83	0.15	80,80,80,80	0
56	MG	1A	4768	1/1	0.83	0.18	65,65,65,65	0
56	MG	1a	1897	1/1	0.83	0.13	124,124,124,124	0
56	MG	2A	3678	1/1	0.83	0.25	100,100,100,100	0
56	MG	1A	4772	1/1	0.83	0.27	70,70,70,70	0
56	MG	18	102	1/1	0.83	0.09	66,66,66,66	0
56	MG	2A	3301	1/1	0.83	0.14	96,96,96,96	0
56	MG	2A	3683	1/1	0.83	0.32	102,102,102,102	0
56	MG	2A	3209	1/1	0.83	0.27	93,93,93,93	0
56	MG	1a	1796	1/1	0.83	0.26	105,105,105,105	0
56	MG	2a	1755	1/1	0.83	0.14	168,168,168,168	0
56	MG	1A	4366	1/1	0.83	0.34	60,60,60,60	0
56	MG	2A	3213	1/1	0.83	0.42	88,88,88,88	0
56	MG	1a	1698	1/1	0.83	0.22	120,120,120,120	0
56	MG	1A	4617	1/1	0.83	0.08	98,98,98,98	0
56	MG	2A	3316	1/1	0.83	0.15	85,85,85,85	0
56	MG	2A	3217	1/1	0.83	0.23	91,91,91,91	0
56	MG	2A	3320	1/1	0.83	0.28	88,88,88,88	0
56	MG	1a	1749	1/1	0.83	0.17	134,134,134,134	0
56	MG	1A	4690	1/1	0.83	0.09	83,83,83,83	0
56	MG	2A	3077	1/1	0.83	0.33	108,108,108,108	0
56	MG	1A	4427	1/1	0.83	0.27	53,53,53,53	0
56	MG	2A	3010	1/1	0.83	0.41	88,88,88,88	0
56	MG	1A	4156	1/1	0.83	0.14	54,54,54,54	0
56	MG	1A	4246	1/1	0.83	0.26	51,51,51,51	0
56	MG	2A	3722	1/1	0.83	0.20	128,128,128,128	0
56	MG	1A	4802	1/1	0.83	0.09	73,73,73,73	0
56	MG	1A	4931	1/1	0.83	0.06	125,125,125,125	0
56	MG	2A	3159	1/1	0.83	0.17	100,100,100,100	0
56	MG	2A	3089	1/1	0.83	0.18	122,122,122,122	0
56	MG	1A	4714	1/1	0.83	0.10	99,99,99,99	0
56	MG	1A	4715	1/1	0.83	0.19	90,90,90,90	0
56	MG	1a	1762	1/1	0.83	0.16	103,103,103,103	0
56	MG	2A	3619	1/1	0.83	0.17	133,133,133,133	0
56	MG	1A	4812	1/1	0.83	0.18	72,72,72,72	0
56	MG	1A	4130	1/1	0.83	0.14	58,58,58,58	0
56	MG	1A	4462	1/1	0.83	0.29	74,74,74,74	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3171	1/1	0.83	0.23	88,88,88,88	0
56	MG	1A	4402	1/1	0.83	0.24	73,73,73,73	0
56	MG	1A	4823	1/1	0.83	0.13	74,74,74,74	0
56	MG	1A	4280	1/1	0.83	0.32	55,55,55,55	0
56	MG	2A	3177	1/1	0.83	0.20	113,113,113,113	0
56	MG	1a	1676	1/1	0.83	0.09	151,151,151,151	0
56	MG	1A	4111	1/1	0.83	0.21	49,49,49,49	0
56	MG	1a	1773	1/1	0.83	0.11	143,143,143,143	0
56	MG	2A	3457	1/1	0.83	0.25	93,93,93,93	0
56	MG	2A	3182	1/1	0.83	0.14	105,105,105,105	0
56	MG	1A	4242	1/1	0.83	0.19	71,71,71,71	0
56	MG	1A	4644	1/1	0.83	0.26	65,65,65,65	0
56	MG	2A	3463	1/1	0.83	0.16	67,67,67,67	0
56	MG	1A	4550	1/1	0.83	0.10	89,89,89,89	0
56	MG	2A	3769	1/1	0.83	0.21	90,90,90,90	0
56	MG	1A	4848	1/1	0.83	0.22	74,74,74,74	0
56	MG	2A	3466	1/1	0.83	0.20	129,129,129,129	0
56	MG	2A	3271	1/1	0.83	0.22	113,113,113,113	0
56	MG	2A	3559	1/1	0.83	0.25	91,91,91,91	0
56	MG	2A	3780	1/1	0.83	0.17	90,90,90,90	0
56	MG	1A	4862	1/1	0.83	0.20	74,74,74,74	0
56	MG	2D	306	1/1	0.83	0.09	101,101,101,101	0
56	MG	2a	1644	1/1	0.83	0.15	125,125,125,125	0
56	MG	2A	3472	1/1	0.83	0.16	99,99,99,99	0
56	MG	2A	3380	1/1	0.83	0.28	93,93,93,93	0
56	MG	2A	3784	1/1	0.83	0.10	110,110,110,110	0
56	MG	2A	3196	1/1	0.83	0.33	92,92,92,92	0
56	MG	1A	4451	1/1	0.84	0.20	70,70,70,70	0
56	MG	1s	102	1/1	0.84	0.15	229,229,229,229	0
56	MG	2A	3706	1/1	0.84	0.24	94,94,94,94	0
56	MG	1A	4335	1/1	0.84	0.41	76,76,76,76	0
56	MG	2A	3715	1/1	0.84	0.20	109,109,109,109	0
56	MG	1A	4915	1/1	0.84	0.09	85,85,85,85	0
56	MG	2A	3452	1/1	0.84	0.20	90,90,90,90	0
56	MG	1A	4523	1/1	0.84	0.29	68,68,68,68	0
56	MG	2A	3459	1/1	0.84	0.34	98,98,98,98	0
56	MG	1A	4454	1/1	0.84	0.17	78,78,78,78	0
56	MG	1B	217	1/1	0.84	0.14	71,71,71,71	0
56	MG	2B	219	1/1	0.84	0.09	77,77,77,77	0
56	MG	1A	4338	1/1	0.84	0.18	67,67,67,67	0
56	MG	1A	4785	1/1	0.84	0.09	70,70,70,70	0
56	MG	2A	3342	1/1	0.84	0.30	86,86,86,86	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4661	1/1	0.84	0.19	80,80,80,80	0
56	MG	1A	4933	1/1	0.84	0.09	102,102,102,102	0
56	MG	1a	1870	1/1	0.84	0.19	220,220,220,220	0
56	MG	2A	3589	1/1	0.84	0.17	127,127,127,127	0
56	MG	2a	1777	1/1	0.84	0.24	117,117,117,117	0
56	MG	2A	3002	1/1	0.84	0.15	99,99,99,99	0
56	MG	2A	3003	1/1	0.84	0.17	108,108,108,108	0
56	MG	1D	305	1/1	0.84	0.19	81,81,81,81	0
56	MG	1A	4302	1/1	0.84	0.18	80,80,80,80	0
56	MG	1A	4797	1/1	0.84	0.17	78,78,78,78	0
56	MG	1a	1880	1/1	0.84	0.09	125,125,125,125	0
56	MG	2D	302	1/1	0.84	0.13	80,80,80,80	0
56	MG	2D	305	1/1	0.84	0.14	96,96,96,96	0
56	MG	1A	4075	1/1	0.84	0.34	83,83,83,83	0
56	MG	2a	1788	1/1	0.84	0.14	229,229,229,229	0
56	MG	1A	4127	1/1	0.84	0.37	63,63,63,63	0
56	MG	1O	204	1/1	0.84	0.12	87,87,87,87	0
56	MG	1A	4158	1/1	0.84	0.17	58,58,58,58	0
56	MG	2A	3360	1/1	0.84	0.30	78,78,78,78	0
56	MG	1A	4806	1/1	0.84	0.29	73,73,73,73	0
56	MG	1a	1667	1/1	0.84	0.17	132,132,132,132	0
56	MG	2A	3760	1/1	0.84	0.16	133,133,133,133	0
56	MG	2P	201	1/1	0.84	0.38	100,100,100,100	0
56	MG	1A	4689	1/1	0.84	0.16	89,89,89,89	0
56	MG	2f	303	1/1	0.84	0.05	135,135,135,135	0
56	MG	2A	3240	1/1	0.84	0.14	120,120,120,120	0
56	MG	1A	4029	1/1	0.84	0.24	51,51,51,51	0
56	MG	2A	3242	1/1	0.84	0.31	106,106,106,106	0
56	MG	1a	1818	1/1	0.84	0.17	186,186,186,186	0
56	MG	1A	4981	1/1	0.84	0.24	57,57,57,57	0
56	MG	1A	4197	1/1	0.84	0.25	94,94,94,94	0
56	MG	1A	4696	1/1	0.84	0.20	72,72,72,72	0
56	MG	2A	3379	1/1	0.84	0.16	101,101,101,101	0
56	MG	1A	4131	1/1	0.84	0.22	56,56,56,56	0
56	MG	1a	1901	1/1	0.84	0.09	113,113,113,113	0
56	MG	2a	1694	1/1	0.84	0.16	146,146,146,146	0
56	MG	2A	3511	1/1	0.84	0.17	89,89,89,89	0
56	MG	1A	4106	1/1	0.84	0.34	50,50,50,50	0
56	MG	1a	1604	1/1	0.84	0.22	98,98,98,98	0
56	MG	1a	1905	1/1	0.84	0.30	108,108,108,108	0
56	MG	1a	1754	1/1	0.84	0.40	100,100,100,100	0
56	MG	2A	3146	1/1	0.84	0.20	87,87,87,87	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1907	1/1	0.84	0.13	117,117,117,117	0
56	MG	2A	3791	1/1	0.84	0.27	93,93,93,93	0
56	MG	1a	1606	1/1	0.84	0.14	115,115,115,115	0
56	MG	1a	1756	1/1	0.84	0.21	109,109,109,109	0
56	MG	2A	3525	1/1	0.84	0.17	106,106,106,106	0
56	MG	1A	4368	1/1	0.84	0.24	63,63,63,63	0
56	MG	1a	1911	1/1	0.84	0.05	105,105,105,105	0
56	MG	2A	3157	1/1	0.84	0.10	102,102,102,102	0
56	MG	2A	3264	1/1	0.84	0.39	81,81,81,81	0
56	MG	1A	4202	1/1	0.84	0.14	95,95,95,95	0
56	MG	1a	1615	1/1	0.84	0.20	92,92,92,92	0
56	MG	2A	3806	1/1	0.84	0.22	114,114,114,114	0
56	MG	1A	5035	1/1	0.84	0.25	68,68,68,68	0
56	MG	1A	5036	1/1	0.84	0.10	72,72,72,72	0
56	MG	2A	3272	1/1	0.84	0.37	81,81,81,81	0
56	MG	2A	3050	1/1	0.84	0.18	93,93,93,93	0
56	MG	2A	3278	1/1	0.84	0.33	86,86,86,86	0
56	MG	1A	4721	1/1	0.84	0.17	82,82,82,82	0
56	MG	1A	4563	1/1	0.84	0.17	68,68,68,68	0
56	MG	1A	4581	1/1	0.84	0.28	61,61,61,61	0
56	MG	1A	4844	1/1	0.84	0.10	77,77,77,77	0
56	MG	1A	4495	1/1	0.84	0.19	78,78,78,78	0
56	MG	1a	1628	1/1	0.84	0.21	101,101,101,101	0
56	MG	1A	4501	1/1	0.84	0.18	71,71,71,71	0
56	MG	1A	4606	1/1	0.84	0.14	67,67,67,67	0
56	MG	2w	202	1/1	0.84	0.16	88,88,88,88	0
56	MG	1A	4084	1/1	0.84	0.24	61,61,61,61	0
56	MG	1A	4874	1/1	0.84	0.15	87,87,87,87	0
56	MG	1A	5062	1/1	0.84	0.17	87,87,87,87	0
56	MG	2A	3299	1/1	0.84	0.32	91,91,91,91	0
56	MG	1A	4294	1/1	0.84	0.16	84,84,84,84	0
56	MG	2A	3833	1/1	0.84	0.23	111,111,111,111	0
56	MG	1A	4297	1/1	0.84	0.16	99,99,99,99	0
56	MG	1A	4141	1/1	0.84	0.28	63,63,63,63	0
56	MG	1A	4887	1/1	0.84	0.15	67,67,67,67	0
56	MG	2A	3840	1/1	0.84	0.26	117,117,117,117	0
56	MG	2A	3186	1/1	0.84	0.25	105,105,105,105	0
56	MG	1A	4510	1/1	0.84	0.19	69,69,69,69	0
56	MG	2A	3190	1/1	0.84	0.22	98,98,98,98	0
56	MG	2A	3434	1/1	0.84	0.20	95,95,95,95	0
56	MG	1A	4447	1/1	0.84	0.20	65,65,65,65	0
56	MG	2A	3312	1/1	0.84	0.14	129,129,129,129	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4147	1/1	0.84	0.23	57,57,57,57	0
56	MG	1A	4389	1/1	0.84	0.16	78,78,78,78	0
56	MG	1a	1718	1/1	0.84	0.15	107,107,107,107	0
60	K	2A	3001	1/1	0.84	0.22	108,108,108,108	0
56	MG	2a	1823	1/1	0.85	0.12	153,153,153,153	0
56	MG	2A	3602	1/1	0.85	0.14	97,97,97,97	0
56	MG	1A	4019	1/1	0.85	0.17	77,77,77,77	0
56	MG	2A	3079	1/1	0.85	0.14	125,125,125,125	0
56	MG	1A	4778	1/1	0.85	0.18	71,71,71,71	0
56	MG	2A	3709	1/1	0.85	0.19	93,93,93,93	0
56	MG	1A	4868	1/1	0.85	0.29	62,62,62,62	0
56	MG	2Y	202	1/1	0.85	0.12	137,137,137,137	0
56	MG	1a	1652	1/1	0.85	0.28	117,117,117,117	0
56	MG	2Z	402	1/1	0.85	0.12	120,120,120,120	0
56	MG	2A	3431	1/1	0.85	0.23	93,93,93,93	0
56	MG	1A	4425	1/1	0.85	0.21	78,78,78,78	0
56	MG	2a	1667	1/1	0.85	0.12	151,151,151,151	0
56	MG	2A	3169	1/1	0.85	0.21	81,81,81,81	0
56	MG	1A	5019	1/1	0.85	0.13	75,75,75,75	0
56	MG	1A	5021	1/1	0.85	0.13	81,81,81,81	0
56	MG	1A	4880	1/1	0.85	0.14	83,83,83,83	0
56	MG	2A	3173	1/1	0.85	0.11	87,87,87,87	0
56	MG	1A	4703	1/1	0.85	0.18	64,64,64,64	0
56	MG	1A	4882	1/1	0.85	0.19	82,82,82,82	0
56	MG	2a	1854	1/1	0.85	0.11	286,286,286,286	0
56	MG	1A	4361	1/1	0.85	0.12	84,84,84,84	0
56	MG	1A	5047	1/1	0.85	0.08	89,89,89,89	0
56	MG	1A	4885	1/1	0.85	0.23	92,92,92,92	0
56	MG	1A	4455	1/1	0.85	0.13	75,75,75,75	0
56	MG	2A	3263	1/1	0.85	0.21	89,89,89,89	0
56	MG	2A	3742	1/1	0.85	0.21	91,91,91,91	0
56	MG	1A	4384	1/1	0.85	0.20	66,66,66,66	0
56	MG	1A	4888	1/1	0.85	0.07	69,69,69,69	0
56	MG	1A	4386	1/1	0.85	0.34	64,64,64,64	0
56	MG	1A	4279	1/1	0.85	0.11	64,64,64,64	0
56	MG	1A	4001	1/1	0.85	0.25	65,65,65,65	0
56	MG	1A	4560	1/1	0.85	0.12	59,59,59,59	0
56	MG	1A	4901	1/1	0.85	0.29	61,61,61,61	0
56	MG	2a	1872	1/1	0.85	0.15	120,120,120,120	0
56	MG	1A	4093	1/1	0.85	0.21	62,62,62,62	0
56	MG	2B	206	1/1	0.85	0.17	103,103,103,103	0
56	MG	1A	4730	1/1	0.85	0.14	71,71,71,71	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3110	1/1	0.85	0.08	189,189,189,189	0
56	MG	2A	3026	1/1	0.85	0.20	117,117,117,117	0
56	MG	1A	4657	1/1	0.85	0.12	84,84,84,84	0
56	MG	1a	1624	1/1	0.85	0.19	102,102,102,102	0
56	MG	1A	4813	1/1	0.85	0.20	70,70,70,70	0
56	MG	1A	4660	1/1	0.85	0.28	84,84,84,84	0
56	MG	1A	4737	1/1	0.85	0.10	76,76,76,76	0
56	MG	1B	207	1/1	0.85	0.15	88,88,88,88	0
56	MG	2A	3291	1/1	0.85	0.26	75,75,75,75	0
56	MG	2A	3568	1/1	0.85	0.26	92,92,92,92	0
56	MG	1A	4433	1/1	0.85	0.18	79,79,79,79	0
56	MG	1A	4391	1/1	0.85	0.23	93,93,93,93	0
56	MG	1A	4666	1/1	0.85	0.29	78,78,78,78	0
56	MG	1a	1750	1/1	0.85	0.13	134,134,134,134	0
56	MG	2A	3664	1/1	0.85	0.17	112,112,112,112	0
56	MG	1A	4345	1/1	0.85	0.24	65,65,65,65	0
56	MG	1A	4600	1/1	0.85	0.15	78,78,78,78	0
56	MG	1A	4956	1/1	0.85	0.11	71,71,71,71	0
56	MG	2A	3055	1/1	0.85	0.15	102,102,102,102	0
56	MG	1A	4762	1/1	0.85	0.22	71,71,71,71	0
56	MG	1a	1873	1/1	0.85	0.19	214,214,214,214	0
56	MG	1A	4962	1/1	0.85	0.11	69,69,69,69	0
56	MG	1A	4833	1/1	0.85	0.20	70,70,70,70	0
56	MG	1A	4838	1/1	0.85	0.22	73,73,73,73	0
56	MG	2A	3145	1/1	0.85	0.14	100,100,100,100	0
56	MG	1A	4117	1/1	0.85	0.18	73,73,73,73	0
56	MG	2A	3231	1/1	0.85	0.23	95,95,95,95	0
56	MG	1A	4309	1/1	0.85	0.23	79,79,79,79	0
56	MG	1a	1700	1/1	0.85	0.18	161,161,161,161	0
56	MG	2A	3686	1/1	0.85	0.13	107,107,107,107	0
56	MG	1a	1824	1/1	0.85	0.09	213,213,213,213	0
56	MG	1A	4196	1/1	0.85	0.19	73,73,73,73	0
56	MG	1a	1703	1/1	0.85	0.17	149,149,149,149	0
56	MG	1A	4977	1/1	0.85	0.19	78,78,78,78	0
56	MG	2A	3334	1/1	0.85	0.25	105,105,105,105	0
56	MG	1A	4377	1/1	0.85	0.25	80,80,80,80	0
59	GDP	2v	704	28/28	0.85	0.11	186,186,186,186	0
56	MG	2A	3811	1/1	0.85	0.15	115,115,115,115	0
56	MG	2a	1816	1/1	0.86	0.09	156,156,156,156	0
56	MG	1A	4439	1/1	0.86	0.15	80,80,80,80	0
56	MG	2a	1819	1/1	0.86	0.16	150,150,150,150	0
56	MG	1A	4138	1/1	0.86	0.18	72,72,72,72	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3277	1/1	0.86	0.28	88,88,88,88	0
56	MG	1A	4027	1/1	0.86	0.10	62,62,62,62	0
56	MG	1A	4731	1/1	0.86	0.26	54,54,54,54	0
56	MG	1a	1709	1/1	0.86	0.19	107,107,107,107	0
56	MG	1a	1891	1/1	0.86	0.14	89,89,89,89	0
56	MG	1a	1841	1/1	0.86	0.08	231,231,231,231	0
56	MG	2a	1744	1/1	0.86	0.22	95,95,95,95	0
56	MG	1A	4667	1/1	0.86	0.22	75,75,75,75	0
56	MG	1A	4669	1/1	0.86	0.20	89,89,89,89	0
56	MG	1A	4878	1/1	0.86	0.17	77,77,77,77	0
56	MG	2A	3216	1/1	0.86	0.17	100,100,100,100	0
56	MG	2A	3373	1/1	0.86	0.32	93,93,93,93	0
56	MG	1A	4879	1/1	0.86	0.08	77,77,77,77	0
56	MG	1a	1716	1/1	0.86	0.12	120,120,120,120	0
56	MG	1A	4410	1/1	0.86	0.30	47,47,47,47	0
56	MG	1A	4275	1/1	0.86	0.23	65,65,65,65	0
56	MG	1A	4960	1/1	0.86	0.09	91,91,91,91	0
56	MG	2A	3227	1/1	0.86	0.32	94,94,94,94	0
56	MG	2h	201	1/1	0.86	0.09	179,179,179,179	0
56	MG	2A	3228	1/1	0.86	0.27	98,98,98,98	0
56	MG	1A	4110	1/1	0.86	0.17	54,54,54,54	0
56	MG	2A	3304	1/1	0.86	0.12	127,127,127,127	0
56	MG	1A	4316	1/1	0.86	0.25	85,85,85,85	0
56	MG	1A	4126	1/1	0.86	0.17	78,78,78,78	0
56	MG	2a	1762	1/1	0.86	0.07	235,235,235,235	0
56	MG	2A	3233	1/1	0.86	0.35	101,101,101,101	0
56	MG	1A	4626	1/1	0.86	0.21	95,95,95,95	0
56	MG	2A	3042	1/1	0.86	0.07	112,112,112,112	0
56	MG	1A	4521	1/1	0.86	0.24	79,79,79,79	0
56	MG	1A	4039	1/1	0.86	0.17	79,79,79,79	0
56	MG	1A	4264	1/1	0.86	0.22	61,61,61,61	0
56	MG	2A	3175	1/1	0.86	0.08	58,58,58,58	0
56	MG	2A	3484	1/1	0.86	0.10	119,119,119,119	0
56	MG	2B	209	1/1	0.86	0.10	77,77,77,77	0
56	MG	2A	3052	1/1	0.86	0.20	103,103,103,103	0
56	MG	2A	3325	1/1	0.86	0.17	88,88,88,88	0
56	MG	2A	3649	1/1	0.86	0.21	110,110,110,110	0
56	MG	2A	3488	1/1	0.86	0.07	115,115,115,115	0
56	MG	19	101	1/1	0.86	0.11	71,71,71,71	0
56	MG	1A	4353	1/1	0.86	0.24	59,59,59,59	0
56	MG	2A	3770	1/1	0.86	0.30	87,87,87,87	0
56	MG	2A	3114	1/1	0.86	0.14	153,153,153,153	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3575	1/1	0.86	0.07	70,70,70,70	0
56	MG	2A	3406	1/1	0.86	0.31	140,140,140,140	0
56	MG	1A	4993	1/1	0.86	0.09	85,85,85,85	0
56	MG	2a	1784	1/1	0.86	0.07	90,90,90,90	0
56	MG	1A	4587	1/1	0.86	0.30	72,72,72,72	0
56	MG	2A	3668	1/1	0.86	0.24	91,91,91,91	0
56	MG	1A	5009	1/1	0.86	0.17	72,72,72,72	0
56	MG	1a	1650	1/1	0.86	0.16	123,123,123,123	0
56	MG	2A	3065	1/1	0.86	0.13	117,117,117,117	0
56	MG	2a	1707	1/1	0.86	0.07	85,85,85,85	0
56	MG	2A	3338	1/1	0.86	0.27	86,86,86,86	0
56	MG	1A	4589	1/1	0.86	0.17	79,79,79,79	0
56	MG	1A	4356	1/1	0.86	0.31	75,75,75,75	0
56	MG	1A	5014	1/1	0.86	0.10	71,71,71,71	0
56	MG	2A	3194	1/1	0.86	0.10	109,109,109,109	0
56	MG	2a	1895	1/1	0.86	0.18	156,156,156,156	0
56	MG	2A	3516	1/1	0.86	0.08	82,82,82,82	0
56	MG	1A	4659	1/1	0.86	0.05	87,87,87,87	0
56	MG	2a	1898	1/1	0.86	0.06	160,160,160,160	0
56	MG	2A	3519	1/1	0.86	0.22	91,91,91,91	0
56	MG	1A	4358	1/1	0.86	0.18	72,72,72,72	0
56	MG	2A	3132	1/1	0.86	0.11	141,141,141,141	0
56	MG	2A	3013	1/1	0.86	0.18	118,118,118,118	0
56	MG	1A	5020	1/1	0.86	0.14	69,69,69,69	0
56	MG	2A	3200	1/1	0.86	0.18	109,109,109,109	0
56	MG	2A	3805	1/1	0.86	0.14	100,100,100,100	0
56	MG	1a	1621	1/1	0.86	0.07	97,97,97,97	0
56	MG	1a	1658	1/1	0.86	0.15	114,114,114,114	0
56	MG	1A	4724	1/1	0.86	0.23	80,80,80,80	0
56	MG	2A	3809	1/1	0.86	0.23	86,86,86,86	0
56	MG	2a	1811	1/1	0.86	0.12	129,129,129,129	0
56	MG	2A	3605	1/1	0.86	0.20	105,105,105,105	0
56	MG	2A	3606	1/1	0.86	0.14	137,137,137,137	0
56	MG	2A	3139	1/1	0.86	0.14	102,102,102,102	0
56	MG	1A	5059	1/1	0.87	0.07	86,86,86,86	0
56	MG	1A	4897	1/1	0.87	0.17	66,66,66,66	0
56	MG	1A	4364	1/1	0.87	0.24	72,72,72,72	0
56	MG	1A	4903	1/1	0.87	0.13	61,61,61,61	0
56	MG	1A	4670	1/1	0.87	0.11	71,71,71,71	0
56	MG	1A	4553	1/1	0.87	0.09	91,91,91,91	0
56	MG	1A	4912	1/1	0.87	0.11	57,57,57,57	0
56	MG	1A	4681	1/1	0.87	0.12	67,67,67,67	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3080	1/1	0.87	0.11	127,127,127,127	0
56	MG	1A	4037	1/1	0.87	0.27	89,89,89,89	0
56	MG	1A	4276	1/1	0.87	0.14	67,67,67,67	0
56	MG	2A	3475	1/1	0.87	0.12	111,111,111,111	0
56	MG	2A	3261	1/1	0.87	0.29	80,80,80,80	0
56	MG	1A	4099	1/1	0.87	0.17	69,69,69,69	0
56	MG	28	106	1/1	0.87	0.11	79,79,79,79	0
56	MG	1A	4930	1/1	0.87	0.08	110,110,110,110	0
56	MG	2A	3688	1/1	0.87	0.14	143,143,143,143	0
56	MG	1A	4497	1/1	0.87	0.17	69,69,69,69	0
56	MG	1A	4060	1/1	0.87	0.15	72,72,72,72	0
56	MG	2A	3268	1/1	0.87	0.15	94,94,94,94	0
56	MG	1A	4502	1/1	0.87	0.08	70,70,70,70	0
56	MG	2A	3483	1/1	0.87	0.15	106,106,106,106	0
56	MG	2A	3829	1/1	0.87	0.14	113,113,113,113	0
56	MG	1A	4168	1/1	0.87	0.34	50,50,50,50	0
56	MG	2A	3698	1/1	0.87	0.22	108,108,108,108	0
56	MG	2A	3093	1/1	0.87	0.33	96,96,96,96	0
56	MG	1A	4038	1/1	0.87	0.33	81,81,81,81	0
56	MG	2a	1815	1/1	0.87	0.04	85,85,85,85	0
56	MG	1A	4598	1/1	0.87	0.12	59,59,59,59	0
56	MG	1A	4599	1/1	0.87	0.19	60,60,60,60	0
56	MG	2A	3710	1/1	0.87	0.14	95,95,95,95	0
56	MG	1A	4321	1/1	0.87	0.12	102,102,102,102	0
56	MG	2A	3594	1/1	0.87	0.07	74,74,74,74	0
56	MG	1A	4082	1/1	0.87	0.13	58,58,58,58	0
56	MG	2A	3844	1/1	0.87	0.16	107,107,107,107	0
56	MG	2A	3596	1/1	0.87	0.19	100,100,100,100	0
56	MG	1a	1889	1/1	0.87	0.07	153,153,153,153	0
56	MG	1A	4140	1/1	0.87	0.22	70,70,70,70	0
56	MG	2a	1829	1/1	0.87	0.15	147,147,147,147	0
56	MG	1a	1812	1/1	0.87	0.34	88,88,88,88	0
56	MG	1A	4513	1/1	0.87	0.20	78,78,78,78	0
56	MG	1a	1815	1/1	0.87	0.07	171,171,171,171	0
56	MG	1A	4024	1/1	0.87	0.11	78,78,78,78	0
56	MG	1A	4515	1/1	0.87	0.20	70,70,70,70	0
56	MG	1A	4331	1/1	0.87	0.25	73,73,73,73	0
56	MG	1A	4975	1/1	0.87	0.20	76,76,76,76	0
56	MG	1A	4234	1/1	0.87	0.26	59,59,59,59	0
56	MG	2a	1631	1/1	0.87	0.11	151,151,151,151	0
56	MG	2A	3738	1/1	0.87	0.14	96,96,96,96	0
56	MG	2A	3294	1/1	0.87	0.33	91,91,91,91	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4842	1/1	0.87	0.13	78,78,78,78	0
56	MG	1A	4984	1/1	0.87	0.12	87,87,87,87	0
56	MG	1A	4237	1/1	0.87	0.17	73,73,73,73	0
56	MG	1A	4847	1/1	0.87	0.24	72,72,72,72	0
56	MG	1A	5006	1/1	0.87	0.08	74,74,74,74	0
56	MG	2A	3303	1/1	0.87	0.08	113,113,113,113	0
56	MG	1A	4188	1/1	0.87	0.08	68,68,68,68	0
56	MG	1A	4861	1/1	0.87	0.14	85,85,85,85	0
56	MG	2A	3411	1/1	0.87	0.22	100,100,100,100	0
56	MG	1A	4627	1/1	0.87	0.26	80,80,80,80	0
56	MG	1A	4017	1/1	0.87	0.14	69,69,69,69	0
56	MG	2q	203	1/1	0.87	0.11	151,151,151,151	0
56	MG	1A	4741	1/1	0.87	0.17	75,75,75,75	0
56	MG	2A	3124	1/1	0.87	0.06	125,125,125,125	0
56	MG	2A	3125	1/1	0.87	0.05	81,81,81,81	0
56	MG	2A	3315	1/1	0.87	0.16	90,90,90,90	0
56	MG	1A	4113	1/1	0.87	0.27	55,55,55,55	0
56	MG	2A	3318	1/1	0.87	0.26	83,83,83,83	0
56	MG	1A	4041	1/1	0.87	0.22	74,74,74,74	0
56	MG	1A	4875	1/1	0.87	0.09	71,71,71,71	0
56	MG	1a	1612	1/1	0.87	0.05	94,94,94,94	0
56	MG	1A	4122	1/1	0.87	0.22	66,66,66,66	0
56	MG	1A	4753	1/1	0.87	0.10	62,62,62,62	0
56	MG	1A	5033	1/1	0.87	0.26	68,68,68,68	0
56	MG	1A	4529	1/1	0.87	0.14	68,68,68,68	0
56	MG	2E	301	1/1	0.87	0.27	91,91,91,91	0
56	MG	2A	3330	1/1	0.87	0.35	97,97,97,97	0
56	MG	2A	3544	1/1	0.87	0.21	108,108,108,108	0
56	MG	2A	3779	1/1	0.87	0.23	98,98,98,98	0
56	MG	1A	4652	1/1	0.87	0.14	84,84,84,84	0
56	MG	1A	5041	1/1	0.87	0.19	79,79,79,79	0
56	MG	1A	5043	1/1	0.87	0.22	71,71,71,71	0
56	MG	2A	3046	1/1	0.87	0.16	91,91,91,91	0
56	MG	1A	4401	1/1	0.87	0.10	78,78,78,78	0
56	MG	1a	1696	1/1	0.87	0.08	159,159,159,159	0
56	MG	1A	4074	1/1	0.87	0.26	78,78,78,78	0
56	MG	1A	4357	1/1	0.87	0.31	78,78,78,78	0
56	MG	2A	3656	1/1	0.87	0.20	109,109,109,109	0
56	MG	1A	4018	1/1	0.87	0.23	68,68,68,68	0
56	MG	1A	4205	1/1	0.87	0.31	56,56,56,56	0
56	MG	1A	4477	1/1	0.87	0.24	71,71,71,71	0
56	MG	1A	4777	1/1	0.87	0.09	68,68,68,68	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4663	1/1	0.87	0.14	89,89,89,89	0
56	MG	1A	4206	1/1	0.87	0.25	55,55,55,55	0
56	MG	1A	4273	1/1	0.87	0.19	69,69,69,69	0
56	MG	1A	4697	1/1	0.88	0.12	68,68,68,68	0
56	MG	1a	1842	1/1	0.88	0.13	78,78,78,78	0
56	MG	2A	3129	1/1	0.88	0.23	101,101,101,101	0
56	MG	1A	4699	1/1	0.88	0.20	75,75,75,75	0
56	MG	1A	4270	1/1	0.88	0.14	68,68,68,68	0
56	MG	2A	3633	1/1	0.88	0.39	110,110,110,110	0
56	MG	1a	1701	1/1	0.88	0.07	153,153,153,153	0
56	MG	1A	4701	1/1	0.88	0.17	68,68,68,68	0
56	MG	1B	213	1/1	0.88	0.15	88,88,88,88	0
56	MG	1A	4398	1/1	0.88	0.27	75,75,75,75	0
56	MG	1b	306	1/1	0.88	0.09	186,186,186,186	0
56	MG	1b	307	1/1	0.88	0.07	164,164,164,164	0
56	MG	2A	3776	1/1	0.88	0.15	97,97,97,97	0
56	MG	2A	3777	1/1	0.88	0.24	100,100,100,100	0
56	MG	2A	3053	1/1	0.88	0.13	96,96,96,96	0
56	MG	1a	1705	1/1	0.88	0.21	122,122,122,122	0
56	MG	1A	4986	1/1	0.88	0.12	64,64,64,64	0
56	MG	2A	3238	1/1	0.88	0.28	108,108,108,108	0
56	MG	1A	4795	1/1	0.88	0.24	79,79,79,79	0
56	MG	1A	4706	1/1	0.88	0.23	68,68,68,68	0
56	MG	2A	3148	1/1	0.88	0.25	76,76,76,76	0
56	MG	1A	4298	1/1	0.88	0.13	76,76,76,76	0
56	MG	2a	1792	1/1	0.88	0.08	250,250,250,250	0
56	MG	2A	3444	1/1	0.88	0.11	99,99,99,99	0
56	MG	2S	201	1/1	0.88	0.10	87,87,87,87	0
56	MG	2A	3150	1/1	0.88	0.11	105,105,105,105	0
56	MG	2A	3790	1/1	0.88	0.15	96,96,96,96	0
56	MG	2b	302	1/1	0.88	0.08	196,196,196,196	0
56	MG	1A	5007	1/1	0.88	0.11	92,92,92,92	0
56	MG	2A	3448	1/1	0.88	0.25	78,78,78,78	0
56	MG	2A	3064	1/1	0.88	0.35	75,75,75,75	0
56	MG	1A	4509	1/1	0.88	0.19	62,62,62,62	0
56	MG	1A	4299	1/1	0.88	0.12	95,95,95,95	0
56	MG	1a	1784	1/1	0.88	0.08	124,124,124,124	0
56	MG	1D	303	1/1	0.88	0.08	82,82,82,82	0
56	MG	1A	4072	1/1	0.88	0.36	63,63,63,63	0
56	MG	1A	4329	1/1	0.88	0.24	73,73,73,73	0
56	MG	1D	308	1/1	0.88	0.11	77,77,77,77	0
56	MG	2A	3804	1/1	0.88	0.27	114,114,114,114	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4653	1/1	0.88	0.13	88,88,88,88	0
56	MG	1A	5017	1/1	0.88	0.16	68,68,68,68	0
56	MG	1H	201	1/1	0.88	0.10	69,69,69,69	0
56	MG	24	101	1/1	0.88	0.04	73,73,73,73	0
56	MG	1A	4215	1/1	0.88	0.31	54,54,54,54	0
56	MG	2A	3569	1/1	0.88	0.08	96,96,96,96	0
56	MG	1A	4892	1/1	0.88	0.15	72,72,72,72	0
56	MG	1A	4725	1/1	0.88	0.08	73,73,73,73	0
56	MG	1Q	201	1/1	0.88	0.24	70,70,70,70	0
56	MG	1A	4097	1/1	0.88	0.26	57,57,57,57	0
56	MG	1A	4900	1/1	0.88	0.11	81,81,81,81	0
56	MG	2A	3685	1/1	0.88	0.20	109,109,109,109	0
56	MG	1A	5025	1/1	0.88	0.29	75,75,75,75	0
56	MG	2A	3088	1/1	0.88	0.16	72,72,72,72	0
56	MG	1A	4332	1/1	0.88	0.23	75,75,75,75	0
56	MG	1a	1877	1/1	0.88	0.07	106,106,106,106	0
56	MG	2a	1715	1/1	0.88	0.11	147,147,147,147	0
56	MG	2A	3824	1/1	0.88	0.10	99,99,99,99	0
56	MG	1A	4373	1/1	0.88	0.21	64,64,64,64	0
56	MG	2A	3691	1/1	0.88	0.04	165,165,165,165	0
56	MG	1Z	305	1/1	0.88	0.16	72,72,72,72	0
56	MG	2A	3375	1/1	0.88	0.19	103,103,103,103	0
56	MG	2A	3377	1/1	0.88	0.12	116,116,116,116	0
56	MG	2A	3378	1/1	0.88	0.12	106,106,106,106	0
56	MG	13	301	1/1	0.88	0.14	65,65,65,65	0
56	MG	2A	3273	1/1	0.88	0.22	70,70,70,70	0
56	MG	15	102	1/1	0.88	0.20	60,60,60,60	0
56	MG	2A	3701	1/1	0.88	0.18	93,93,93,93	0
56	MG	1A	4217	1/1	0.88	0.14	59,59,59,59	0
56	MG	1A	4337	1/1	0.88	0.21	59,59,59,59	0
56	MG	2A	3490	1/1	0.88	0.10	76,76,76,76	0
56	MG	1A	4218	1/1	0.88	0.16	58,58,58,58	0
56	MG	1A	4665	1/1	0.88	0.29	78,78,78,78	0
56	MG	1A	4922	1/1	0.88	0.20	67,67,67,67	0
56	MG	2A	3494	1/1	0.88	0.06	134,134,134,134	0
56	MG	2A	3846	1/1	0.88	0.18	108,108,108,108	0
56	MG	2a	1739	1/1	0.88	0.15	151,151,151,151	0
56	MG	1A	4065	1/1	0.88	0.28	67,67,67,67	0
56	MG	2A	3501	1/1	0.88	0.28	104,104,104,104	0
56	MG	1a	1674	1/1	0.88	0.11	134,134,134,134	0
56	MG	1a	1607	1/1	0.88	0.24	86,86,86,86	0
56	MG	1A	4605	1/1	0.88	0.11	64,64,64,64	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4837	1/1	0.88	0.17	57,57,57,57	0
56	MG	2A	3727	1/1	0.88	0.25	90,90,90,90	0
56	MG	2x	101	1/1	0.88	0.05	62,62,62,62	0
56	MG	2A	3506	1/1	0.88	0.07	149,149,149,149	0
56	MG	2A	3734	1/1	0.88	0.19	108,108,108,108	0
56	MG	1A	4248	1/1	0.88	0.23	56,56,56,56	0
56	MG	1A	4839	1/1	0.88	0.24	63,63,63,63	0
56	MG	1a	1617	1/1	0.88	0.09	79,79,79,79	0
56	MG	1A	4612	1/1	0.88	0.15	62,62,62,62	0
56	MG	1A	4676	1/1	0.88	0.11	101,101,101,101	0
56	MG	1A	4528	1/1	0.88	0.18	73,73,73,73	0
56	MG	1A	4284	1/1	0.88	0.19	65,65,65,65	0
56	MG	1A	4225	1/1	0.88	0.27	73,73,73,73	0
56	MG	1A	4252	1/1	0.88	0.25	54,54,54,54	0
56	MG	1A	4031	1/1	0.88	0.17	56,56,56,56	0
56	MG	2A	3120	1/1	0.88	0.16	120,120,120,120	0
56	MG	1A	4144	1/1	0.88	0.11	65,65,65,65	0
56	MG	1A	4866	1/1	0.88	0.15	69,69,69,69	0
56	MG	2A	3212	1/1	0.88	0.11	93,93,93,93	0
56	MG	1A	4691	1/1	0.88	0.14	81,81,81,81	0
56	MG	1A	4146	1/1	0.88	0.15	59,59,59,59	0
56	MG	2A	3527	1/1	0.88	0.13	111,111,111,111	0
56	MG	2a	1656	1/1	0.88	0.13	145,145,145,145	0
56	MG	1A	4229	1/1	0.88	0.16	111,111,111,111	0
56	MG	2A	3499	1/1	0.89	0.17	100,100,100,100	0
56	MG	1A	4436	1/1	0.89	0.22	64,64,64,64	0
56	MG	1A	4123	1/1	0.89	0.16	77,77,77,77	0
56	MG	2A	3260	1/1	0.89	0.40	78,78,78,78	0
56	MG	1A	4440	1/1	0.89	0.17	73,73,73,73	0
56	MG	1A	4261	1/1	0.89	0.15	63,63,63,63	0
56	MG	2A	3058	1/1	0.89	0.23	85,85,85,85	0
56	MG	1A	4263	1/1	0.89	0.38	51,51,51,51	0
56	MG	1A	4610	1/1	0.89	0.14	60,60,60,60	0
56	MG	2A	3267	1/1	0.89	0.18	99,99,99,99	0
56	MG	1B	221	1/1	0.89	0.24	98,98,98,98	0
56	MG	2A	3756	1/1	0.89	0.18	137,137,137,137	0
56	MG	1A	4705	1/1	0.89	0.10	72,72,72,72	0
56	MG	1A	4142	1/1	0.89	0.22	66,66,66,66	0
56	MG	1A	4710	1/1	0.89	0.22	73,73,73,73	0
56	MG	1A	4971	1/1	0.89	0.32	63,63,63,63	0
56	MG	1A	4616	1/1	0.89	0.14	86,86,86,86	0
56	MG	1A	4125	1/1	0.89	0.14	79,79,79,79	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4174	1/1	0.89	0.29	59,59,59,59	0
56	MG	2A	3072	1/1	0.89	0.09	133,133,133,133	0
56	MG	1A	4145	1/1	0.89	0.31	51,51,51,51	0
56	MG	1A	4032	1/1	0.89	0.31	55,55,55,55	0
56	MG	1A	4182	1/1	0.89	0.18	58,58,58,58	0
56	MG	2A	3401	1/1	0.89	0.10	89,89,89,89	0
56	MG	1a	1668	1/1	0.89	0.07	139,139,139,139	0
56	MG	2F	304	1/1	0.89	0.10	135,135,135,135	0
56	MG	2A	3636	1/1	0.89	0.10	125,125,125,125	0
56	MG	1A	4985	1/1	0.89	0.11	73,73,73,73	0
56	MG	1A	4395	1/1	0.89	0.11	63,63,63,63	0
56	MG	1A	4989	1/1	0.89	0.06	73,73,73,73	0
56	MG	1A	4089	1/1	0.89	0.14	67,67,67,67	0
56	MG	1A	4995	1/1	0.89	0.18	77,77,77,77	0
56	MG	1A	4997	1/1	0.89	0.15	80,80,80,80	0
56	MG	2A	3410	1/1	0.89	0.12	108,108,108,108	0
56	MG	1A	5004	1/1	0.89	0.18	89,89,89,89	0
56	MG	2A	3293	1/1	0.89	0.20	94,94,94,94	0
56	MG	2A	3786	1/1	0.89	0.06	123,123,123,123	0
56	MG	1a	1851	1/1	0.89	0.09	175,175,175,175	0
56	MG	1A	4399	1/1	0.89	0.15	77,77,77,77	0
56	MG	1A	4857	1/1	0.89	0.10	61,61,61,61	0
56	MG	1t	201	1/1	0.89	0.09	42,42,42,42	0
56	MG	1A	4150	1/1	0.89	0.16	59,59,59,59	0
56	MG	10	101	1/1	0.89	0.25	64,64,64,64	0
56	MG	1A	4728	1/1	0.89	0.27	76,76,76,76	0
56	MG	1A	4628	1/1	0.89	0.20	77,77,77,77	0
56	MG	1A	4629	1/1	0.89	0.09	71,71,71,71	0
56	MG	1A	5013	1/1	0.89	0.04	38,38,38,38	0
56	MG	1A	4631	1/1	0.89	0.10	70,70,70,70	0
56	MG	1A	4152	1/1	0.89	0.25	56,56,56,56	0
56	MG	1A	4045	1/1	0.89	0.21	68,68,68,68	0
56	MG	1a	1605	1/1	0.89	0.25	89,89,89,89	0
56	MG	2A	3672	1/1	0.89	0.09	120,120,120,120	0
56	MG	26	101	1/1	0.89	0.24	121,121,121,121	0
56	MG	1A	4738	1/1	0.89	0.24	70,70,70,70	0
56	MG	2A	3004	1/1	0.89	0.24	93,93,93,93	0
56	MG	2a	1708	1/1	0.89	0.11	152,152,152,152	0
56	MG	1A	4115	1/1	0.89	0.14	62,62,62,62	0
56	MG	1A	4405	1/1	0.89	0.11	71,71,71,71	0
56	MG	1A	4743	1/1	0.89	0.17	74,74,74,74	0
56	MG	1A	4745	1/1	0.89	0.10	81,81,81,81	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3324	1/1	0.89	0.15	87,87,87,87	0
56	MG	1a	1613	1/1	0.89	0.19	91,91,91,91	0
56	MG	1A	4467	1/1	0.89	0.20	57,57,57,57	0
56	MG	1A	4116	1/1	0.89	0.15	65,65,65,65	0
56	MG	1a	1788	1/1	0.89	0.08	118,118,118,118	0
56	MG	1a	1790	1/1	0.89	0.21	87,87,87,87	0
56	MG	1A	4750	1/1	0.89	0.27	68,68,68,68	0
56	MG	1A	4479	1/1	0.89	0.20	71,71,71,71	0
56	MG	1A	5037	1/1	0.89	0.17	78,78,78,78	0
56	MG	2A	3223	1/1	0.89	0.16	118,118,118,118	0
56	MG	1A	4542	1/1	0.89	0.20	56,56,56,56	0
56	MG	2A	3226	1/1	0.89	0.18	100,100,100,100	0
56	MG	1A	4543	1/1	0.89	0.07	83,83,83,83	0
56	MG	2A	3340	1/1	0.89	0.36	75,75,75,75	0
56	MG	1A	4135	1/1	0.89	0.18	78,78,78,78	0
56	MG	2A	3229	1/1	0.89	0.28	73,73,73,73	0
56	MG	1A	4482	1/1	0.89	0.21	61,61,61,61	0
56	MG	1A	4483	1/1	0.89	0.15	66,66,66,66	0
56	MG	2A	3126	1/1	0.89	0.10	138,138,138,138	0
56	MG	1A	4419	1/1	0.89	0.26	55,55,55,55	0
56	MG	2A	3703	1/1	0.89	0.12	94,94,94,94	0
56	MG	2A	3839	1/1	0.89	0.17	139,139,139,139	0
56	MG	1A	4008	1/1	0.89	0.11	71,71,71,71	0
56	MG	2a	1864	1/1	0.89	0.08	161,161,161,161	0
56	MG	1A	4137	1/1	0.89	0.05	102,102,102,102	0
56	MG	1A	4207	1/1	0.89	0.26	52,52,52,52	0
56	MG	1A	4556	1/1	0.89	0.17	58,58,58,58	0
56	MG	1A	4492	1/1	0.89	0.34	69,69,69,69	0
56	MG	1A	4562	1/1	0.89	0.30	65,65,65,65	0
56	MG	1A	4209	1/1	0.89	0.28	55,55,55,55	0
56	MG	1A	4566	1/1	0.89	0.26	58,58,58,58	0
56	MG	1A	4678	1/1	0.89	0.13	86,86,86,86	0
56	MG	2a	1633	1/1	0.89	0.12	125,125,125,125	0
56	MG	2A	3720	1/1	0.89	0.10	122,122,122,122	0
56	MG	2A	3033	1/1	0.89	0.10	107,107,107,107	0
56	MG	1A	4679	1/1	0.89	0.04	80,80,80,80	0
56	MG	1A	4923	1/1	0.89	0.15	66,66,66,66	0
56	MG	1A	4924	1/1	0.89	0.08	71,71,71,71	0
56	MG	1A	4575	1/1	0.89	0.23	56,56,56,56	0
56	MG	1A	4580	1/1	0.89	0.28	64,64,64,64	0
56	MG	1A	4118	1/1	0.89	0.21	82,82,82,82	0
56	MG	1A	4255	1/1	0.89	0.20	65,65,65,65	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4333	1/1	0.89	0.10	83,83,83,83	0
56	MG	2A	3049	1/1	0.89	0.10	94,94,94,94	0
56	MG	1A	4055	1/1	0.89	0.11	86,86,86,86	0
56	MG	1A	4504	1/1	0.89	0.17	92,92,92,92	0
56	MG	2A	3495	1/1	0.89	0.13	106,106,106,106	0
56	MG	1a	1626	1/1	0.90	0.20	98,98,98,98	0
56	MG	1A	4108	1/1	0.90	0.23	52,52,52,52	0
56	MG	2A	3153	1/1	0.90	0.14	80,80,80,80	0
56	MG	1a	1753	1/1	0.90	0.16	115,115,115,115	0
56	MG	1A	4472	1/1	0.90	0.35	54,54,54,54	0
56	MG	27	101	1/1	0.90	0.13	90,90,90,90	0
56	MG	1A	4475	1/1	0.90	0.17	58,58,58,58	0
56	MG	28	102	1/1	0.90	0.16	119,119,119,119	0
56	MG	1A	4639	1/1	0.90	0.07	71,71,71,71	0
56	MG	1A	4568	1/1	0.90	0.14	56,56,56,56	0
56	MG	1a	1632	1/1	0.90	0.18	118,118,118,118	0
56	MG	1D	302	1/1	0.90	0.07	57,57,57,57	0
56	MG	1A	4009	1/1	0.90	0.15	79,79,79,79	0
56	MG	2a	1917	1/1	0.90	0.19	86,86,86,86	0
56	MG	2A	3007	1/1	0.90	0.19	98,98,98,98	0
56	MG	2A	3335	1/1	0.90	0.12	97,97,97,97	0
56	MG	1A	4129	1/1	0.90	0.21	58,58,58,58	0
56	MG	1A	4761	1/1	0.90	0.12	74,74,74,74	0
56	MG	1A	4437	1/1	0.90	0.16	64,64,64,64	0
56	MG	1A	4648	1/1	0.90	0.28	66,66,66,66	0
56	MG	2A	3838	1/1	0.90	0.05	44,44,44,44	0
56	MG	2A	3730	1/1	0.90	0.19	99,99,99,99	0
56	MG	1A	5027	1/1	0.90	0.13	63,63,63,63	0
56	MG	1a	1766	1/1	0.90	0.08	129,129,129,129	0
56	MG	1E	305	1/1	0.90	0.14	69,69,69,69	0
56	MG	1E	308	1/1	0.90	0.10	68,68,68,68	0
56	MG	2A	3437	1/1	0.90	0.14	97,97,97,97	0
56	MG	1A	4222	1/1	0.90	0.16	70,70,70,70	0
56	MG	1A	5034	1/1	0.90	0.10	67,67,67,67	0
56	MG	1A	4224	1/1	0.90	0.16	64,64,64,64	0
56	MG	1A	4771	1/1	0.90	0.14	70,70,70,70	0
56	MG	1P	203	1/1	0.90	0.28	68,68,68,68	0
56	MG	1a	1840	1/1	0.90	0.09	237,237,237,237	0
56	MG	1A	4708	1/1	0.90	0.14	70,70,70,70	0
56	MG	2A	3746	1/1	0.90	0.15	93,93,93,93	0
56	MG	2A	3104	1/1	0.90	0.09	53,53,53,53	0
56	MG	2A	3748	1/1	0.90	0.10	104,104,104,104	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3542	1/1	0.90	0.16	110,110,110,110	0
56	MG	1A	4950	1/1	0.90	0.07	61,61,61,61	0
56	MG	1A	5042	1/1	0.90	0.09	77,77,77,77	0
56	MG	1A	4283	1/1	0.90	0.21	65,65,65,65	0
56	MG	2A	3638	1/1	0.90	0.14	114,114,114,114	0
56	MG	1A	4253	1/1	0.90	0.42	54,54,54,54	0
56	MG	1A	4444	1/1	0.90	0.31	76,76,76,76	0
56	MG	1A	4181	1/1	0.90	0.38	45,45,45,45	0
56	MG	2A	3549	1/1	0.90	0.28	96,96,96,96	0
56	MG	1A	4719	1/1	0.90	0.10	89,89,89,89	0
56	MG	10	104	1/1	0.90	0.11	79,79,79,79	0
56	MG	1A	4094	1/1	0.90	0.21	68,68,68,68	0
56	MG	1A	4788	1/1	0.90	0.14	107,107,107,107	0
56	MG	1A	4493	1/1	0.90	0.17	68,68,68,68	0
56	MG	2A	3767	1/1	0.90	0.12	93,93,93,93	0
56	MG	1b	304	1/1	0.90	0.09	173,173,173,173	0
56	MG	2A	3467	1/1	0.90	0.05	79,79,79,79	0
56	MG	2A	3652	1/1	0.90	0.08	124,124,124,124	0
56	MG	2A	3654	1/1	0.90	0.16	115,115,115,115	0
56	MG	2A	3468	1/1	0.90	0.23	85,85,85,85	0
56	MG	1A	4791	1/1	0.90	0.22	73,73,73,73	0
56	MG	1a	1791	1/1	0.90	0.08	116,116,116,116	0
56	MG	2A	3560	1/1	0.90	0.38	95,95,95,95	0
56	MG	2A	3374	1/1	0.90	0.14	102,102,102,102	0
56	MG	1A	4184	1/1	0.90	0.12	61,61,61,61	0
56	MG	2A	3663	1/1	0.90	0.12	95,95,95,95	0
56	MG	1A	4411	1/1	0.90	0.38	50,50,50,50	0
56	MG	2A	3565	1/1	0.90	0.22	102,102,102,102	0
56	MG	1A	4541	1/1	0.90	0.24	56,56,56,56	0
56	MG	1A	4500	1/1	0.90	0.27	69,69,69,69	0
56	MG	1A	4208	1/1	0.90	0.21	56,56,56,56	0
56	MG	2A	3048	1/1	0.90	0.13	88,88,88,88	0
56	MG	1A	4073	1/1	0.90	0.13	71,71,71,71	0
56	MG	2A	3290	1/1	0.90	0.12	112,112,112,112	0
56	MG	1A	4673	1/1	0.90	0.13	94,94,94,94	0
56	MG	1A	4987	1/1	0.90	0.18	62,62,62,62	0
56	MG	1A	4807	1/1	0.90	0.14	58,58,58,58	0
56	MG	2A	3054	1/1	0.90	0.17	100,100,100,100	0
56	MG	1A	4422	1/1	0.90	0.30	52,52,52,52	0
56	MG	1A	4732	1/1	0.90	0.20	56,56,56,56	0
56	MG	1A	4424	1/1	0.90	0.18	61,61,61,61	0
56	MG	2Q	204	1/1	0.90	0.06	118,118,118,118	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1772	1/1	0.90	0.05	70,70,70,70	0
56	MG	2A	3218	1/1	0.90	0.20	103,103,103,103	0
56	MG	1A	4999	1/1	0.90	0.08	62,62,62,62	0
56	MG	1A	4105	1/1	0.90	0.46	46,46,46,46	0
56	MG	1a	1869	1/1	0.90	0.05	226,226,226,226	0
56	MG	1s	101	1/1	0.90	0.13	216,216,216,216	0
56	MG	2A	3224	1/1	0.90	0.10	119,119,119,119	0
56	MG	2A	3497	1/1	0.90	0.23	79,79,79,79	0
56	MG	2A	3140	1/1	0.90	0.15	101,101,101,101	0
56	MG	1A	4818	1/1	0.90	0.25	69,69,69,69	0
56	MG	1A	4268	1/1	0.90	0.31	65,65,65,65	0
56	MG	1A	4232	1/1	0.90	0.25	64,64,64,64	0
56	MG	2A	3313	1/1	0.90	0.13	95,95,95,95	0
56	MG	1A	4194	1/1	0.90	0.18	68,68,68,68	0
56	MG	1A	4143	1/1	0.90	0.20	62,62,62,62	0
56	MG	1A	4091	1/1	0.90	0.21	58,58,58,58	0
56	MG	1a	1879	1/1	0.90	0.08	97,97,97,97	0
56	MG	1A	4512	1/1	0.91	0.12	73,73,73,73	0
56	MG	2a	1880	1/1	0.91	0.11	158,158,158,158	0
56	MG	1A	4551	1/1	0.91	0.10	69,69,69,69	0
56	MG	1A	5031	1/1	0.91	0.07	88,88,88,88	0
56	MG	2A	3712	1/1	0.91	0.31	92,92,92,92	0
56	MG	2A	3158	1/1	0.91	0.10	107,107,107,107	0
56	MG	2A	3714	1/1	0.91	0.23	101,101,101,101	0
56	MG	15	101	1/1	0.91	0.24	61,61,61,61	0
56	MG	1A	4406	1/1	0.91	0.10	56,56,56,56	0
56	MG	16	101	1/1	0.91	0.24	72,72,72,72	0
56	MG	1A	4685	1/1	0.91	0.06	70,70,70,70	0
56	MG	1A	4919	1/1	0.91	0.14	62,62,62,62	0
56	MG	2a	1891	1/1	0.91	0.07	157,157,157,157	0
56	MG	1A	4258	1/1	0.91	0.10	68,68,68,68	0
56	MG	1A	4214	1/1	0.91	0.15	61,61,61,61	0
56	MG	2A	3852	1/1	0.91	0.15	96,96,96,96	0
56	MG	2A	3853	1/1	0.91	0.04	84,84,84,84	0
56	MG	1A	4557	1/1	0.91	0.20	58,58,58,58	0
56	MG	2A	3723	1/1	0.91	0.21	96,96,96,96	0
56	MG	2A	3376	1/1	0.91	0.19	99,99,99,99	0
56	MG	1a	1683	1/1	0.91	0.08	83,83,83,83	0
56	MG	1m	202	1/1	0.91	0.09	211,211,211,211	0
56	MG	2A	3728	1/1	0.91	0.13	83,83,83,83	0
56	MG	1A	4415	1/1	0.91	0.17	74,74,74,74	0
56	MG	2A	3731	1/1	0.91	0.23	86,86,86,86	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4748	1/1	0.91	0.13	90,90,90,90	0
56	MG	2A	3733	1/1	0.91	0.08	77,77,77,77	0
56	MG	1A	4517	1/1	0.91	0.17	81,81,81,81	0
56	MG	1p	101	1/1	0.91	0.09	143,143,143,143	0
56	MG	1a	1609	1/1	0.91	0.23	88,88,88,88	0
56	MG	2A	3275	1/1	0.91	0.19	83,83,83,83	0
56	MG	1A	4387	1/1	0.91	0.14	81,81,81,81	0
56	MG	2A	3082	1/1	0.91	0.13	126,126,126,126	0
56	MG	1A	4754	1/1	0.91	0.17	62,62,62,62	0
56	MG	1A	4175	1/1	0.91	0.20	60,60,60,60	0
56	MG	2A	3085	1/1	0.91	0.05	118,118,118,118	0
56	MG	1A	4487	1/1	0.91	0.22	75,75,75,75	0
56	MG	1A	4840	1/1	0.91	0.14	71,71,71,71	0
56	MG	1A	4938	1/1	0.91	0.10	69,69,69,69	0
56	MG	2A	3394	1/1	0.91	0.10	131,131,131,131	0
56	MG	1A	4941	1/1	0.91	0.21	61,61,61,61	0
56	MG	2A	3513	1/1	0.91	0.10	85,85,85,85	0
56	MG	1A	4573	1/1	0.91	0.10	70,70,70,70	0
56	MG	1A	4183	1/1	0.91	0.15	63,63,63,63	0
56	MG	2A	3193	1/1	0.91	0.29	107,107,107,107	0
56	MG	2A	3092	1/1	0.91	0.10	118,118,118,118	0
56	MG	1A	4955	1/1	0.91	0.26	72,72,72,72	0
56	MG	1A	4423	1/1	0.91	0.17	53,53,53,53	0
56	MG	2A	3757	1/1	0.91	0.13	127,127,127,127	0
56	MG	1A	4704	1/1	0.91	0.16	77,77,77,77	0
56	MG	1A	4491	1/1	0.91	0.17	86,86,86,86	0
56	MG	1A	4850	1/1	0.91	0.23	76,76,76,76	0
56	MG	1A	4854	1/1	0.91	0.13	81,81,81,81	0
56	MG	1A	4165	1/1	0.91	0.05	56,56,56,56	0
56	MG	2E	305	1/1	0.91	0.12	121,121,121,121	0
56	MG	1A	4968	1/1	0.91	0.12	82,82,82,82	0
56	MG	1A	4585	1/1	0.91	0.31	65,65,65,65	0
56	MG	1A	4773	1/1	0.91	0.12	68,68,68,68	0
56	MG	2A	3103	1/1	0.91	0.04	79,79,79,79	0
56	MG	1A	4774	1/1	0.91	0.17	68,68,68,68	0
56	MG	1A	4864	1/1	0.91	0.19	75,75,75,75	0
56	MG	1a	1633	1/1	0.91	0.14	109,109,109,109	0
56	MG	1a	1882	1/1	0.91	0.25	87,87,87,87	0
56	MG	1A	4281	1/1	0.91	0.21	70,70,70,70	0
56	MG	2A	3311	1/1	0.91	0.07	102,102,102,102	0
56	MG	1A	4319	1/1	0.91	0.33	68,68,68,68	0
56	MG	1a	1886	1/1	0.91	0.12	125,125,125,125	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2Q	205	1/1	0.91	0.15	129,129,129,129	0
56	MG	1a	1888	1/1	0.91	0.11	119,119,119,119	0
56	MG	1A	4179	1/1	0.91	0.19	60,60,60,60	0
56	MG	1A	4983	1/1	0.91	0.17	56,56,56,56	0
56	MG	1A	4870	1/1	0.91	0.36	54,54,54,54	0
56	MG	1A	4595	1/1	0.91	0.10	62,62,62,62	0
56	MG	2A	3429	1/1	0.91	0.13	117,117,117,117	0
56	MG	2A	3430	1/1	0.91	0.35	73,73,73,73	0
56	MG	1B	219	1/1	0.91	0.11	77,77,77,77	0
56	MG	2A	3323	1/1	0.91	0.29	89,89,89,89	0
56	MG	2a	1701	1/1	0.91	0.12	146,146,146,146	0
56	MG	1A	4219	1/1	0.91	0.23	61,61,61,61	0
56	MG	1A	4876	1/1	0.91	0.10	80,80,80,80	0
56	MG	1A	4781	1/1	0.91	0.06	81,81,81,81	0
56	MG	1A	4990	1/1	0.91	0.16	64,64,64,64	0
56	MG	2A	3328	1/1	0.91	0.11	91,91,91,91	0
56	MG	2A	3667	1/1	0.91	0.20	93,93,93,93	0
56	MG	1A	4992	1/1	0.91	0.09	70,70,70,70	0
56	MG	2A	3669	1/1	0.91	0.15	92,92,92,92	0
56	MG	1A	4784	1/1	0.91	0.18	87,87,87,87	0
56	MG	1A	4103	1/1	0.91	0.27	50,50,50,50	0
56	MG	1A	4212	1/1	0.91	0.29	51,51,51,51	0
56	MG	1A	4602	1/1	0.91	0.07	54,54,54,54	0
56	MG	1A	5003	1/1	0.91	0.20	65,65,65,65	0
56	MG	1a	1904	1/1	0.91	0.09	83,83,83,83	0
56	MG	1A	4400	1/1	0.91	0.17	75,75,75,75	0
56	MG	28	103	1/1	0.91	0.11	115,115,115,115	0
56	MG	2a	1849	1/1	0.91	0.06	142,142,142,142	0
56	MG	1A	4272	1/1	0.91	0.16	68,68,68,68	0
56	MG	1A	4609	1/1	0.91	0.13	70,70,70,70	0
56	MG	2A	3454	1/1	0.91	0.09	90,90,90,90	0
56	MG	1A	4289	1/1	0.91	0.14	68,68,68,68	0
56	MG	2A	3458	1/1	0.91	0.22	90,90,90,90	0
56	MG	2A	3037	1/1	0.91	0.04	104,104,104,104	0
56	MG	1F	301	1/1	0.91	0.20	76,76,76,76	0
56	MG	1A	4545	1/1	0.91	0.22	65,65,65,65	0
56	MG	1A	4799	1/1	0.91	0.24	87,87,87,87	0
56	MG	1A	4671	1/1	0.91	0.17	65,65,65,65	0
56	MG	1A	4803	1/1	0.91	0.06	101,101,101,101	0
56	MG	2y	102	1/1	0.91	0.20	73,73,73,73	0
56	MG	1A	4469	1/1	0.91	0.20	56,56,56,56	0
56	MG	2A	3822	1/1	0.91	0.09	91,91,91,91	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4805	1/1	0.91	0.12	95,95,95,95	0
56	MG	1A	4380	1/1	0.91	0.12	56,56,56,56	0
56	MG	2A	3353	1/1	0.91	0.17	83,83,83,83	0
56	MG	1A	4899	1/1	0.91	0.23	68,68,68,68	0
56	MG	1a	1665	1/1	0.91	0.50	132,132,132,132	0
56	MG	1A	4381	1/1	0.91	0.11	72,72,72,72	0
56	MG	1A	4121	1/1	0.91	0.18	81,81,81,81	0
56	MG	1A	4736	1/1	0.91	0.19	61,61,61,61	0
56	MG	1Z	304	1/1	0.91	0.10	64,64,64,64	0
56	MG	2A	3702	1/1	0.91	0.18	92,92,92,92	0
56	MG	1A	4905	1/1	0.91	0.15	65,65,65,65	0
56	MG	1A	4003	1/1	0.92	0.20	53,53,53,53	0
56	MG	1A	4904	1/1	0.92	0.32	63,63,63,63	0
56	MG	1A	4071	1/1	0.92	0.23	77,77,77,77	0
56	MG	1A	4473	1/1	0.92	0.30	46,46,46,46	0
56	MG	1A	5011	1/1	0.92	0.15	77,77,77,77	0
56	MG	1A	4910	1/1	0.92	0.31	55,55,55,55	0
56	MG	1A	4824	1/1	0.92	0.09	81,81,81,81	0
56	MG	20	102	1/1	0.92	0.23	116,116,116,116	0
56	MG	1A	4601	1/1	0.92	0.05	102,102,102,102	0
56	MG	2A	3711	1/1	0.92	0.14	95,95,95,95	0
56	MG	1A	4913	1/1	0.92	0.12	72,72,72,72	0
56	MG	1A	5016	1/1	0.92	0.18	81,81,81,81	0
56	MG	1P	202	1/1	0.92	0.11	60,60,60,60	0
56	MG	1a	1741	1/1	0.92	0.07	139,139,139,139	0
56	MG	1A	4369	1/1	0.92	0.37	61,61,61,61	0
56	MG	1A	4916	1/1	0.92	0.18	73,73,73,73	0
56	MG	2a	1914	1/1	0.92	0.07	242,242,242,242	0
56	MG	1R	201	1/1	0.92	0.30	68,68,68,68	0
56	MG	1A	4324	1/1	0.92	0.25	78,78,78,78	0
56	MG	1A	4920	1/1	0.92	0.19	61,61,61,61	0
56	MG	1A	4478	1/1	0.92	0.19	71,71,71,71	0
56	MG	1U	201	1/1	0.92	0.08	61,61,61,61	0
56	MG	1A	4064	1/1	0.92	0.12	69,69,69,69	0
56	MG	1A	4752	1/1	0.92	0.22	63,63,63,63	0
56	MG	2A	3222	1/1	0.92	0.09	112,112,112,112	0
56	MG	2A	3726	1/1	0.92	0.11	91,91,91,91	0
56	MG	1A	4925	1/1	0.92	0.07	72,72,72,72	0
56	MG	1a	1834	1/1	0.92	0.10	210,210,210,210	0
56	MG	1A	5030	1/1	0.92	0.20	72,72,72,72	0
56	MG	2A	3837	1/1	0.92	0.10	68,68,68,68	0
56	MG	1A	4328	1/1	0.92	0.32	55,55,55,55	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	10	102	1/1	0.92	0.08	69,69,69,69	0
56	MG	1A	4233	1/1	0.92	0.22	65,65,65,65	0
56	MG	12	101	1/1	0.92	0.04	84,84,84,84	0
56	MG	1A	4688	1/1	0.92	0.11	65,65,65,65	0
56	MG	1A	4177	1/1	0.92	0.16	58,58,58,58	0
56	MG	1A	4081	1/1	0.92	0.16	57,57,57,57	0
56	MG	1A	4240	1/1	0.92	0.17	60,60,60,60	0
56	MG	17	103	1/1	0.92	0.22	73,73,73,73	0
56	MG	1b	308	1/1	0.92	0.09	162,162,162,162	0
56	MG	2A	3237	1/1	0.92	0.13	112,112,112,112	0
56	MG	2a	1720	1/1	0.92	0.08	153,153,153,153	0
56	MG	1A	4763	1/1	0.92	0.31	69,69,69,69	0
56	MG	1A	4693	1/1	0.92	0.20	67,67,67,67	0
56	MG	1A	4241	1/1	0.92	0.25	66,66,66,66	0
56	MG	2a	1619	1/1	0.92	0.05	68,68,68,68	0
56	MG	2a	1836	1/1	0.92	0.08	124,124,124,124	0
56	MG	1d	303	1/1	0.92	0.05	151,151,151,151	0
56	MG	1A	4334	1/1	0.92	0.08	73,73,73,73	0
56	MG	1A	4943	1/1	0.92	0.13	61,61,61,61	0
56	MG	2A	3063	1/1	0.92	0.32	83,83,83,83	0
56	MG	1A	4162	1/1	0.92	0.22	56,56,56,56	0
56	MG	2A	3447	1/1	0.92	0.13	87,87,87,87	0
56	MG	1A	4858	1/1	0.92	0.14	58,58,58,58	0
56	MG	1A	4434	1/1	0.92	0.28	58,58,58,58	0
56	MG	2A	3156	1/1	0.92	0.06	100,100,100,100	0
56	MG	1A	4119	1/1	0.92	0.23	74,74,74,74	0
56	MG	1A	4957	1/1	0.92	0.06	79,79,79,79	0
56	MG	1A	4047	1/1	0.92	0.16	69,69,69,69	0
56	MG	2A	3456	1/1	0.92	0.10	83,83,83,83	0
56	MG	1A	4342	1/1	0.92	0.22	65,65,65,65	0
56	MG	1A	4961	1/1	0.92	0.08	100,100,100,100	0
56	MG	1A	4303	1/1	0.92	0.15	87,87,87,87	0
56	MG	1a	1616	1/1	0.92	0.12	99,99,99,99	0
56	MG	1A	4274	1/1	0.92	0.35	51,51,51,51	0
56	MG	1A	4346	1/1	0.92	0.11	72,72,72,72	0
56	MG	1A	4247	1/1	0.92	0.26	49,49,49,49	0
56	MG	2q	204	1/1	0.92	0.09	141,141,141,141	0
56	MG	2r	301	1/1	0.92	0.07	139,139,139,139	0
56	MG	1A	4637	1/1	0.92	0.07	68,68,68,68	0
56	MG	1A	4349	1/1	0.92	0.20	54,54,54,54	0
56	MG	1A	4042	1/1	0.92	0.19	58,58,58,58	0
56	MG	1A	4277	1/1	0.92	0.23	53,53,53,53	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1v	702	1/1	0.92	0.31	91,91,91,91	0
56	MG	2A	3670	1/1	0.92	0.07	92,92,92,92	0
56	MG	1A	4717	1/1	0.92	0.11	81,81,81,81	0
56	MG	1A	4354	1/1	0.92	0.21	62,62,62,62	0
56	MG	1A	4249	1/1	0.92	0.22	52,52,52,52	0
56	MG	1A	4250	1/1	0.92	0.10	64,64,64,64	0
56	MG	1A	4453	1/1	0.92	0.15	66,66,66,66	0
56	MG	1A	4085	1/1	0.92	0.06	67,67,67,67	0
56	MG	1A	4578	1/1	0.92	0.11	59,59,59,59	0
56	MG	1A	4579	1/1	0.92	0.23	56,56,56,56	0
56	MG	2A	3274	1/1	0.92	0.14	83,83,83,83	0
56	MG	2E	304	1/1	0.92	0.04	71,71,71,71	0
56	MG	1a	1797	1/1	0.92	0.33	85,85,85,85	0
56	MG	1A	4988	1/1	0.92	0.05	79,79,79,79	0
56	MG	1A	4086	1/1	0.92	0.10	68,68,68,68	0
56	MG	1A	4061	1/1	0.92	0.20	71,71,71,71	0
56	MG	1A	4189	1/1	0.92	0.16	60,60,60,60	0
56	MG	2A	3191	1/1	0.92	0.15	92,92,92,92	0
56	MG	2A	3192	1/1	0.92	0.16	99,99,99,99	0
56	MG	1A	4363	1/1	0.92	0.23	72,72,72,72	0
56	MG	1A	4191	1/1	0.92	0.16	67,67,67,67	0
56	MG	1A	4257	1/1	0.92	0.17	64,64,64,64	0
56	MG	1A	4998	1/1	0.92	0.11	80,80,80,80	0
56	MG	2A	3799	1/1	0.92	0.10	116,116,116,116	0
56	MG	2A	3286	1/1	0.92	0.15	101,101,101,101	0
56	MG	1A	4413	1/1	0.92	0.14	63,63,63,63	0
56	MG	1A	4593	1/1	0.92	0.28	65,65,65,65	0
56	MG	2A	3803	1/1	0.92	0.07	112,112,112,112	0
56	MG	2A	3696	1/1	0.92	0.16	105,105,105,105	0
57	ZN	2n	501	1/1	0.92	0.06	239,239,239,239	0
56	MG	1A	4594	1/1	0.92	0.17	64,64,64,64	0
56	MG	1A	4287	1/1	0.92	0.42	50,50,50,50	0
56	MG	1a	1706	1/1	0.93	0.09	103,103,103,103	0
56	MG	2A	3788	1/1	0.93	0.06	124,124,124,124	0
56	MG	1A	4336	1/1	0.93	0.27	62,62,62,62	0
56	MG	1A	4623	1/1	0.93	0.20	85,85,85,85	0
56	MG	1A	4894	1/1	0.93	0.14	63,63,63,63	0
56	MG	2P	202	1/1	0.93	0.12	127,127,127,127	0
56	MG	1A	4564	1/1	0.93	0.12	56,56,56,56	0
56	MG	1A	4565	1/1	0.93	0.20	58,58,58,58	0
56	MG	1A	4898	1/1	0.93	0.17	60,60,60,60	0
56	MG	1A	4418	1/1	0.93	0.23	52,52,52,52	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4002	1/1	0.93	0.14	65,65,65,65	0
56	MG	1A	4569	1/1	0.93	0.22	60,60,60,60	0
56	MG	1A	4694	1/1	0.93	0.14	70,70,70,70	0
56	MG	1A	4450	1/1	0.93	0.16	75,75,75,75	0
56	MG	1A	4007	1/1	0.93	0.09	64,64,64,64	0
56	MG	1A	4907	1/1	0.93	0.20	52,52,52,52	0
56	MG	1A	4577	1/1	0.93	0.12	58,58,58,58	0
56	MG	2X	201	1/1	0.93	0.10	108,108,108,108	0
56	MG	1A	4909	1/1	0.93	0.16	59,59,59,59	0
56	MG	1A	4634	1/1	0.93	0.10	59,59,59,59	0
56	MG	1A	4635	1/1	0.93	0.26	68,68,68,68	0
56	MG	1a	1813	1/1	0.93	0.06	91,91,91,91	0
56	MG	1A	4046	1/1	0.93	0.16	68,68,68,68	0
56	MG	2A	3289	1/1	0.93	0.18	107,107,107,107	0
56	MG	1A	4160	1/1	0.93	0.28	50,50,50,50	0
56	MG	1E	303	1/1	0.93	0.23	62,62,62,62	0
56	MG	1A	4132	1/1	0.93	0.19	61,61,61,61	0
56	MG	2A	3704	1/1	0.93	0.30	95,95,95,95	0
56	MG	2A	3705	1/1	0.93	0.28	98,98,98,98	0
56	MG	1A	4067	1/1	0.93	0.16	86,86,86,86	0
56	MG	1A	4532	1/1	0.93	0.06	45,45,45,45	0
56	MG	2A	3297	1/1	0.93	0.33	80,80,80,80	0
56	MG	1A	4645	1/1	0.93	0.16	66,66,66,66	0
56	MG	1A	4846	1/1	0.93	0.14	74,74,74,74	0
56	MG	1A	4456	1/1	0.93	0.11	80,80,80,80	0
56	MG	1A	4457	1/1	0.93	0.06	81,81,81,81	0
56	MG	27	102	1/1	0.93	0.21	89,89,89,89	0
56	MG	1P	201	1/1	0.93	0.12	53,53,53,53	0
56	MG	1A	4496	1/1	0.93	0.07	60,60,60,60	0
56	MG	1A	4851	1/1	0.93	0.08	72,72,72,72	0
56	MG	1A	5018	1/1	0.93	0.12	71,71,71,71	0
56	MG	1A	4852	1/1	0.93	0.20	71,71,71,71	0
56	MG	1A	4397	1/1	0.93	0.14	72,72,72,72	0
56	MG	2a	1818	1/1	0.93	0.11	156,156,156,156	0
56	MG	1A	4262	1/1	0.93	0.21	66,66,66,66	0
56	MG	2a	1820	1/1	0.93	0.11	155,155,155,155	0
56	MG	2h	202	1/1	0.93	0.07	180,180,180,180	0
56	MG	1A	4461	1/1	0.93	0.21	78,78,78,78	0
56	MG	2a	1601	1/1	0.93	0.07	122,122,122,122	0
56	MG	2A	3409	1/1	0.93	0.09	116,116,116,116	0
56	MG	1A	4860	1/1	0.93	0.05	59,59,59,59	0
56	MG	2a	1825	1/1	0.93	0.09	169,169,169,169	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3039	1/1	0.93	0.06	80,80,80,80	0
56	MG	1A	4658	1/1	0.93	0.09	96,96,96,96	0
56	MG	2A	3413	1/1	0.93	0.09	126,126,126,126	0
56	MG	2A	3041	1/1	0.93	0.06	117,117,117,117	0
56	MG	1A	5026	1/1	0.93	0.14	70,70,70,70	0
56	MG	1A	4782	1/1	0.93	0.10	81,81,81,81	0
56	MG	1A	4090	1/1	0.93	0.17	55,55,55,55	0
56	MG	2A	3045	1/1	0.93	0.10	93,93,93,93	0
56	MG	1A	4940	1/1	0.93	0.20	55,55,55,55	0
56	MG	2A	3322	1/1	0.93	0.12	88,88,88,88	0
56	MG	1A	4100	1/1	0.93	0.15	66,66,66,66	0
56	MG	2a	1725	1/1	0.93	0.10	142,142,142,142	0
56	MG	1A	4942	1/1	0.93	0.07	79,79,79,79	0
56	MG	1A	4865	1/1	0.93	0.09	64,64,64,64	0
56	MG	1A	4946	1/1	0.93	0.03	52,52,52,52	0
56	MG	1A	4786	1/1	0.93	0.13	63,63,63,63	0
56	MG	1A	5038	1/1	0.93	0.27	70,70,70,70	0
56	MG	2A	3144	1/1	0.93	0.07	65,65,65,65	0
56	MG	1a	1675	1/1	0.93	0.06	124,124,124,124	0
56	MG	1A	4949	1/1	0.93	0.07	69,69,69,69	0
56	MG	1A	4787	1/1	0.93	0.24	64,64,64,64	0
56	MG	1A	4951	1/1	0.93	0.19	68,68,68,68	0
56	MG	1A	4953	1/1	0.93	0.22	60,60,60,60	0
56	MG	1A	4954	1/1	0.93	0.14	62,62,62,62	0
56	MG	2A	3336	1/1	0.93	0.26	95,95,95,95	0
56	MG	1A	4148	1/1	0.93	0.17	64,64,64,64	0
56	MG	2A	3441	1/1	0.93	0.16	109,109,109,109	0
56	MG	1A	4376	1/1	0.93	0.29	61,61,61,61	0
56	MG	1A	4149	1/1	0.93	0.26	59,59,59,59	0
56	MG	1A	4958	1/1	0.93	0.11	95,95,95,95	0
56	MG	2A	3650	1/1	0.93	0.06	115,115,115,115	0
56	MG	2A	3651	1/1	0.93	0.05	118,118,118,118	0
56	MG	1A	4355	1/1	0.93	0.09	67,67,67,67	0
56	MG	1A	4604	1/1	0.93	0.12	67,67,67,67	0
56	MG	2A	3344	1/1	0.93	0.09	91,91,91,91	0
56	MG	1A	4062	1/1	0.93	0.24	72,72,72,72	0
56	MG	2A	3657	1/1	0.93	0.09	103,103,103,103	0
56	MG	1A	4169	1/1	0.93	0.17	57,57,57,57	0
56	MG	2A	3070	1/1	0.93	0.10	156,156,156,156	0
56	MG	1A	4964	1/1	0.93	0.08	67,67,67,67	0
56	MG	1A	4474	1/1	0.93	0.19	56,56,56,56	0
56	MG	2A	3453	1/1	0.93	0.06	74,74,74,74	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3771	1/1	0.93	0.14	101,101,101,101	0
56	MG	2A	3163	1/1	0.93	0.11	103,103,103,103	0
56	MG	1A	5063	1/1	0.93	0.05	58,58,58,58	0
56	MG	1A	4190	1/1	0.93	0.16	68,68,68,68	0
56	MG	1B	202	1/1	0.93	0.05	114,114,114,114	0
56	MG	1A	4102	1/1	0.93	0.13	53,53,53,53	0
56	MG	2D	303	1/1	0.93	0.05	109,109,109,109	0
56	MG	1A	4313	1/1	0.93	0.20	50,50,50,50	0
56	MG	1A	4558	1/1	0.93	0.13	66,66,66,66	0
56	MG	1A	4414	1/1	0.93	0.36	66,66,66,66	0
56	MG	1a	1785	1/1	0.93	0.07	136,136,136,136	0
56	MG	1A	4561	1/1	0.93	0.10	57,57,57,57	0
56	MG	1A	4620	1/1	0.93	0.08	107,107,107,107	0
57	ZN	24	102	1/1	0.93	0.09	230,230,230,230	0
56	MG	1A	4811	1/1	0.93	0.10	63,63,63,63	0
56	MG	1A	4056	1/1	0.93	0.18	66,66,66,66	0
56	MG	1A	4982	1/1	0.93	0.17	54,54,54,54	0
56	MG	1A	4296	1/1	0.94	0.21	82,82,82,82	0
56	MG	1A	5002	1/1	0.94	0.09	61,61,61,61	0
56	MG	2A	3843	1/1	0.94	0.08	76,76,76,76	0
56	MG	1B	226	1/1	0.94	0.15	64,64,64,64	0
56	MG	1D	301	1/1	0.94	0.18	65,65,65,65	0
56	MG	2A	3166	1/1	0.94	0.10	85,85,85,85	0
56	MG	2A	3848	1/1	0.94	0.05	61,61,61,61	0
56	MG	2A	3489	1/1	0.94	0.04	53,53,53,53	0
56	MG	2A	3167	1/1	0.94	0.15	99,99,99,99	0
56	MG	1A	4494	1/1	0.94	0.08	78,78,78,78	0
56	MG	1A	4829	1/1	0.94	0.13	74,74,74,74	0
56	MG	1A	4608	1/1	0.94	0.20	70,70,70,70	0
56	MG	1D	306	1/1	0.94	0.13	69,69,69,69	0
56	MG	1A	4153	1/1	0.94	0.13	55,55,55,55	0
56	MG	1A	4379	1/1	0.94	0.04	95,95,95,95	0
56	MG	1A	4187	1/1	0.94	0.11	67,67,67,67	0
56	MG	1A	4917	1/1	0.94	0.22	62,62,62,62	0
56	MG	1A	4835	1/1	0.94	0.16	63,63,63,63	0
56	MG	1E	304	1/1	0.94	0.12	71,71,71,71	0
56	MG	1A	4499	1/1	0.94	0.08	59,59,59,59	0
56	MG	2B	210	1/1	0.94	0.03	70,70,70,70	0
56	MG	1A	4749	1/1	0.94	0.13	77,77,77,77	0
56	MG	2A	3621	1/1	0.94	0.27	95,95,95,95	0
56	MG	1A	4120	1/1	0.94	0.24	79,79,79,79	0
56	MG	1A	4170	1/1	0.94	0.17	61,61,61,61	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4683	1/1	0.94	0.10	55,55,55,55	0
56	MG	1O	203	1/1	0.94	0.28	87,87,87,87	0
56	MG	1A	4326	1/1	0.94	0.19	67,67,67,67	0
56	MG	1A	4385	1/1	0.94	0.40	55,55,55,55	0
56	MG	1A	4459	1/1	0.94	0.14	72,72,72,72	0
56	MG	2A	3629	1/1	0.94	0.27	114,114,114,114	0
56	MG	2A	3630	1/1	0.94	0.06	102,102,102,102	0
56	MG	2A	3189	1/1	0.94	0.13	113,113,113,113	0
56	MG	1A	4759	1/1	0.94	0.14	74,74,74,74	0
56	MG	2a	1655	1/1	0.94	0.07	142,142,142,142	0
56	MG	1A	4068	1/1	0.94	0.30	84,84,84,84	0
56	MG	1P	204	1/1	0.94	0.08	88,88,88,88	0
56	MG	2B	226	1/1	0.94	0.08	132,132,132,132	0
56	MG	1A	4559	1/1	0.94	0.24	60,60,60,60	0
56	MG	1A	4157	1/1	0.94	0.24	52,52,52,52	0
56	MG	2A	3295	1/1	0.94	0.10	97,97,97,97	0
56	MG	1R	203	1/1	0.94	0.07	52,52,52,52	0
56	MG	1A	4692	1/1	0.94	0.26	61,61,61,61	0
56	MG	1T	201	1/1	0.94	0.13	66,66,66,66	0
56	MG	1T	203	1/1	0.94	0.09	62,62,62,62	0
56	MG	1A	4104	1/1	0.94	0.29	56,56,56,56	0
56	MG	1A	4235	1/1	0.94	0.12	57,57,57,57	0
56	MG	2D	304	1/1	0.94	0.06	107,107,107,107	0
56	MG	1A	5028	1/1	0.94	0.04	70,70,70,70	0
56	MG	1A	4133	1/1	0.94	0.34	58,58,58,58	0
56	MG	1A	4465	1/1	0.94	0.23	60,60,60,60	0
56	MG	2A	3415	1/1	0.94	0.12	124,124,124,124	0
56	MG	2A	3306	1/1	0.94	0.09	85,85,85,85	0
56	MG	1A	4306	1/1	0.94	0.05	97,97,97,97	0
56	MG	1A	4944	1/1	0.94	0.09	88,88,88,88	0
56	MG	2A	3772	1/1	0.94	0.13	98,98,98,98	0
56	MG	1A	4630	1/1	0.94	0.07	56,56,56,56	0
56	MG	1A	4392	1/1	0.94	0.06	103,103,103,103	0
56	MG	1A	4430	1/1	0.94	0.25	61,61,61,61	0
56	MG	2A	3422	1/1	0.94	0.10	130,130,130,130	0
56	MG	2N	202	1/1	0.94	0.08	84,84,84,84	0
56	MG	1l	101	1/1	0.94	0.24	87,87,87,87	0
56	MG	1a	1872	1/1	0.94	0.07	195,195,195,195	0
56	MG	2A	3314	1/1	0.94	0.10	93,93,93,93	0
56	MG	1A	4702	1/1	0.94	0.05	58,58,58,58	0
56	MG	1A	5040	1/1	0.94	0.30	78,78,78,78	0
56	MG	1A	4362	1/1	0.94	0.20	67,67,67,67	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4195	1/1	0.94	0.18	68,68,68,68	0
56	MG	1A	4636	1/1	0.94	0.21	64,64,64,64	0
56	MG	17	101	1/1	0.94	0.20	58,58,58,58	0
56	MG	1A	5045	1/1	0.94	0.08	67,67,67,67	0
56	MG	1A	4030	1/1	0.94	0.15	58,58,58,58	0
56	MG	18	103	1/1	0.94	0.22	75,75,75,75	0
56	MG	1A	5049	1/1	0.94	0.12	72,72,72,72	0
56	MG	1A	4707	1/1	0.94	0.31	73,73,73,73	0
56	MG	2A	3438	1/1	0.94	0.24	79,79,79,79	0
56	MG	1a	1602	1/1	0.94	0.13	77,77,77,77	0
56	MG	1A	4576	1/1	0.94	0.14	55,55,55,55	0
56	MG	1A	4124	1/1	0.94	0.23	76,76,76,76	0
56	MG	1A	4877	1/1	0.94	0.08	81,81,81,81	0
56	MG	2A	3796	1/1	0.94	0.17	96,96,96,96	0
56	MG	1A	4711	1/1	0.94	0.18	78,78,78,78	0
56	MG	1A	4476	1/1	0.94	0.19	66,66,66,66	0
56	MG	1A	4059	1/1	0.94	0.12	72,72,72,72	0
56	MG	2A	3679	1/1	0.94	0.07	106,106,106,106	0
56	MG	2A	3561	1/1	0.94	0.33	88,88,88,88	0
56	MG	1A	4004	1/1	0.94	0.28	45,45,45,45	0
56	MG	1A	4200	1/1	0.94	0.04	69,69,69,69	0
56	MG	1A	4883	1/1	0.94	0.03	59,59,59,59	0
56	MG	1A	4583	1/1	0.94	0.26	56,56,56,56	0
56	MG	1A	4720	1/1	0.94	0.19	79,79,79,79	0
56	MG	1A	4340	1/1	0.94	0.23	57,57,57,57	0
56	MG	1A	4527	1/1	0.94	0.13	76,76,76,76	0
56	MG	2A	3036	1/1	0.94	0.04	76,76,76,76	0
56	MG	1A	4800	1/1	0.94	0.08	69,69,69,69	0
56	MG	1A	4655	1/1	0.94	0.22	82,82,82,82	0
56	MG	1a	1711	1/1	0.94	0.06	125,125,125,125	0
56	MG	2a	1852	1/1	0.94	0.03	45,45,45,45	0
56	MG	2w	201	1/1	0.94	0.10	84,84,84,84	0
56	MG	1A	4370	1/1	0.94	0.13	61,61,61,61	0
56	MG	2A	3141	1/1	0.94	0.09	96,96,96,96	0
56	MG	2A	3694	1/1	0.94	0.11	61,61,61,61	0
56	MG	1A	4980	1/1	0.94	0.15	59,59,59,59	0
56	MG	1A	4341	1/1	0.94	0.34	48,48,48,48	0
56	MG	1A	4026	1/1	0.94	0.12	69,69,69,69	0
56	MG	1A	4533	1/1	0.94	0.15	68,68,68,68	0
56	MG	2a	1862	1/1	0.94	0.08	155,155,155,155	0
56	MG	1A	4445	1/1	0.94	0.34	73,73,73,73	0
56	MG	1A	4896	1/1	0.94	0.18	61,61,61,61	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1722	1/1	0.94	0.14	113,113,113,113	0
56	MG	1A	4139	1/1	0.94	0.17	68,68,68,68	0
56	MG	1A	4044	1/1	0.94	0.19	62,62,62,62	0
56	MG	1A	4489	1/1	0.94	0.08	75,75,75,75	0
56	MG	1A	4407	1/1	0.94	0.17	52,52,52,52	0
56	MG	1A	4408	1/1	0.94	0.09	57,57,57,57	0
56	MG	2A	3708	1/1	0.94	0.11	100,100,100,100	0
56	MG	1A	4817	1/1	0.94	0.11	65,65,65,65	0
56	MG	1A	4295	1/1	0.94	0.13	83,83,83,83	0
56	MG	1A	4668	1/1	0.94	0.07	93,93,93,93	0
56	MG	2A	3258	1/1	0.94	0.23	75,75,75,75	0
56	MG	1A	4544	1/1	0.94	0.15	77,77,77,77	0
56	MG	1b	303	1/1	0.94	0.05	166,166,166,166	0
56	MG	2A	3368	1/1	0.94	0.09	100,100,100,100	0
56	MG	1A	4739	1/1	0.94	0.13	74,74,74,74	0
56	MG	2A	3061	1/1	0.94	0.09	92,92,92,92	0
56	MG	1A	4531	1/1	0.95	0.08	68,68,68,68	0
56	MG	1A	4154	1/1	0.95	0.09	68,68,68,68	0
56	MG	2A	3581	1/1	0.95	0.04	116,116,116,116	0
56	MG	1A	4828	1/1	0.95	0.08	80,80,80,80	0
56	MG	1A	4632	1/1	0.95	0.13	66,66,66,66	0
56	MG	1A	4057	1/1	0.95	0.32	63,63,63,63	0
56	MG	1A	4350	1/1	0.95	0.20	68,68,68,68	0
56	MG	1A	4282	1/1	0.95	0.15	69,69,69,69	0
56	MG	1a	1608	1/1	0.95	0.10	69,69,69,69	0
56	MG	1a	1693	1/1	0.95	0.06	136,136,136,136	0
56	MG	1A	4204	1/1	0.95	0.13	64,64,64,64	0
56	MG	1A	4539	1/1	0.95	0.05	69,69,69,69	0
56	MG	1A	4265	1/1	0.95	0.23	61,61,61,61	0
56	MG	1a	1876	1/1	0.95	0.09	102,102,102,102	0
56	MG	1A	4698	1/1	0.95	0.20	70,70,70,70	0
56	MG	1A	4586	1/1	0.95	0.20	73,73,73,73	0
56	MG	1A	4435	1/1	0.95	0.22	65,65,65,65	0
56	MG	1A	4643	1/1	0.95	0.14	64,64,64,64	0
56	MG	1A	4765	1/1	0.95	0.11	60,60,60,60	0
56	MG	1B	218	1/1	0.95	0.30	61,61,61,61	0
56	MG	2A	3600	1/1	0.95	0.07	118,118,118,118	0
56	MG	2A	3601	1/1	0.95	0.16	101,101,101,101	0
56	MG	2A	3498	1/1	0.95	0.08	102,102,102,102	0
56	MG	2A	3296	1/1	0.95	0.12	94,94,94,94	0
56	MG	2A	3707	1/1	0.95	0.19	100,100,100,100	0
56	MG	1A	4588	1/1	0.95	0.08	79,79,79,79	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4267	1/1	0.95	0.27	63,63,63,63	0
56	MG	1a	1887	1/1	0.95	0.08	130,130,130,130	0
56	MG	1A	4646	1/1	0.95	0.25	69,69,69,69	0
56	MG	1B	222	1/1	0.95	0.04	91,91,91,91	0
56	MG	1A	4590	1/1	0.95	0.10	71,71,71,71	0
56	MG	1A	4005	1/1	0.95	0.14	65,65,65,65	0
56	MG	1A	5008	1/1	0.95	0.04	76,76,76,76	0
56	MG	25	101	1/1	0.95	0.03	45,45,45,45	0
56	MG	1A	4649	1/1	0.95	0.11	65,65,65,65	0
56	MG	1A	4651	1/1	0.95	0.12	88,88,88,88	0
56	MG	1a	1713	1/1	0.95	0.05	109,109,109,109	0
56	MG	2A	3118	1/1	0.95	0.06	135,135,135,135	0
56	MG	27	103	1/1	0.95	0.08	97,97,97,97	0
56	MG	1A	4853	1/1	0.95	0.15	78,78,78,78	0
56	MG	2A	3514	1/1	0.95	0.04	114,114,114,114	0
56	MG	2A	3618	1/1	0.95	0.06	149,149,149,149	0
56	MG	1A	4020	1/1	0.95	0.17	73,73,73,73	0
56	MG	1A	4855	1/1	0.95	0.10	59,59,59,59	0
56	MG	1A	4470	1/1	0.95	0.14	54,54,54,54	0
56	MG	1A	4015	1/1	0.95	0.26	63,63,63,63	0
56	MG	1A	4859	1/1	0.95	0.11	72,72,72,72	0
56	MG	1A	4713	1/1	0.95	0.11	55,55,55,55	0
56	MG	2A	3729	1/1	0.95	0.20	83,83,83,83	0
56	MG	1A	4409	1/1	0.95	0.20	56,56,56,56	0
56	MG	1A	4936	1/1	0.95	0.13	61,61,61,61	0
56	MG	1A	4442	1/1	0.95	0.06	75,75,75,75	0
56	MG	1A	4939	1/1	0.95	0.23	71,71,71,71	0
56	MG	1E	306	1/1	0.95	0.07	83,83,83,83	0
56	MG	1A	4716	1/1	0.95	0.14	72,72,72,72	0
56	MG	1A	4083	1/1	0.95	0.15	58,58,58,58	0
56	MG	1A	4290	1/1	0.95	0.26	70,70,70,70	0
56	MG	2A	3134	1/1	0.95	0.08	83,83,83,83	0
56	MG	2A	3851	1/1	0.95	0.04	110,110,110,110	0
56	MG	1a	1643	1/1	0.95	0.11	130,130,130,130	0
56	MG	1A	4076	1/1	0.95	0.13	77,77,77,77	0
56	MG	1A	4210	1/1	0.95	0.16	58,58,58,58	0
56	MG	1A	4789	1/1	0.95	0.08	96,96,96,96	0
56	MG	2a	1728	1/1	0.95	0.18	79,79,79,79	0
56	MG	1A	5029	1/1	0.95	0.06	69,69,69,69	0
56	MG	1A	4947	1/1	0.95	0.18	71,71,71,71	0
56	MG	2A	3047	1/1	0.95	0.15	99,99,99,99	0
56	MG	1A	4293	1/1	0.95	0.08	78,78,78,78	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	5032	1/1	0.95	0.08	83,83,83,83	0
56	MG	1A	4871	1/1	0.95	0.22	55,55,55,55	0
56	MG	2A	3051	1/1	0.95	0.09	104,104,104,104	0
56	MG	1A	4555	1/1	0.95	0.16	57,57,57,57	0
56	MG	2A	3147	1/1	0.95	0.14	82,82,82,82	0
56	MG	2a	1855	1/1	0.95	0.03	88,88,88,88	0
56	MG	1Q	203	1/1	0.95	0.07	50,50,50,50	0
56	MG	1A	4664	1/1	0.95	0.15	73,73,73,73	0
56	MG	2A	3341	1/1	0.95	0.07	86,86,86,86	0
56	MG	1A	4480	1/1	0.95	0.06	80,80,80,80	0
56	MG	1A	4025	1/1	0.95	0.15	67,67,67,67	0
56	MG	2a	1861	1/1	0.95	0.05	153,153,153,153	0
56	MG	1A	4114	1/1	0.95	0.12	56,56,56,56	0
56	MG	1A	4078	1/1	0.95	0.20	66,66,66,66	0
56	MG	1A	4729	1/1	0.95	0.12	64,64,64,64	0
56	MG	1A	4801	1/1	0.95	0.08	76,76,76,76	0
56	MG	1A	4420	1/1	0.95	0.24	50,50,50,50	0
56	MG	1U	203	1/1	0.95	0.10	64,64,64,64	0
56	MG	1W	202	1/1	0.95	0.08	55,55,55,55	0
56	MG	2a	1750	1/1	0.95	0.09	120,120,120,120	0
56	MG	1A	4244	1/1	0.95	0.18	51,51,51,51	0
56	MG	1Z	301	1/1	0.95	0.18	80,80,80,80	0
56	MG	2A	3662	1/1	0.95	0.11	96,96,96,96	0
56	MG	1A	4486	1/1	0.95	0.14	67,67,67,67	0
56	MG	1Z	303	1/1	0.95	0.07	42,42,42,42	0
56	MG	1A	4522	1/1	0.95	0.14	76,76,76,76	0
56	MG	1A	4963	1/1	0.95	0.09	78,78,78,78	0
56	MG	1A	4260	1/1	0.95	0.29	58,58,58,58	0
56	MG	1A	4524	1/1	0.95	0.34	74,74,74,74	0
56	MG	1A	4245	1/1	0.95	0.24	52,52,52,52	0
56	MG	1A	4322	1/1	0.95	0.15	85,85,85,85	0
56	MG	1A	4396	1/1	0.95	0.33	72,72,72,72	0
56	MG	1A	4740	1/1	0.95	0.08	79,79,79,79	0
56	MG	1A	4571	1/1	0.95	0.14	79,79,79,79	0
56	MG	1A	4893	1/1	0.95	0.05	65,65,65,65	0
56	MG	1A	4371	1/1	0.95	0.21	74,74,74,74	0
56	MG	1A	5060	1/1	0.95	0.24	64,64,64,64	0
56	MG	1A	4574	1/1	0.95	0.18	57,57,57,57	0
56	MG	1A	4686	1/1	0.95	0.10	93,93,93,93	0
56	MG	1a	1772	1/1	0.95	0.03	136,136,136,136	0
57	ZN	1n	103	1/1	0.95	0.05	212,212,212,212	0
56	MG	1A	4347	1/1	0.95	0.10	66,66,66,66	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1660	1/1	0.95	0.08	142,142,142,142	0
59	GDP	1v	704	28/28	0.95	0.07	117,117,117,117	0
56	MG	1A	4530	1/1	0.95	0.06	68,68,68,68	0
56	MG	2A	3180	1/1	0.95	0.09	116,116,116,116	0
56	MG	1A	4843	1/1	0.96	0.05	76,76,76,76	0
56	MG	1A	4107	1/1	0.96	0.23	52,52,52,52	0
56	MG	1A	4934	1/1	0.96	0.09	77,77,77,77	0
56	MG	1A	4845	1/1	0.96	0.15	68,68,68,68	0
56	MG	17	102	1/1	0.96	0.12	61,61,61,61	0
56	MG	2A	3518	1/1	0.96	0.05	96,96,96,96	0
56	MG	1A	4638	1/1	0.96	0.04	66,66,66,66	0
56	MG	18	101	1/1	0.96	0.38	56,56,56,56	0
56	MG	2A	3265	1/1	0.96	0.08	90,90,90,90	0
56	MG	1a	1878	1/1	0.96	0.04	105,105,105,105	0
56	MG	2A	3653	1/1	0.96	0.09	117,117,117,117	0
56	MG	21	101	1/1	0.96	0.09	110,110,110,110	0
56	MG	1A	4534	1/1	0.96	0.05	78,78,78,78	0
56	MG	1A	4615	1/1	0.96	0.12	67,67,67,67	0
56	MG	1A	5044	1/1	0.96	0.10	52,52,52,52	0
56	MG	1A	4991	1/1	0.96	0.05	66,66,66,66	0
56	MG	1A	4641	1/1	0.96	0.06	79,79,79,79	0
56	MG	2A	3396	1/1	0.96	0.05	126,126,126,126	0
56	MG	1A	4766	1/1	0.96	0.07	56,56,56,56	0
56	MG	1A	4043	1/1	0.96	0.28	56,56,56,56	0
56	MG	1A	4231	1/1	0.96	0.04	72,72,72,72	0
56	MG	1A	4808	1/1	0.96	0.19	53,53,53,53	0
56	MG	1A	4770	1/1	0.96	0.13	65,65,65,65	0
56	MG	1A	4176	1/1	0.96	0.13	59,59,59,59	0
56	MG	1A	4318	1/1	0.96	0.13	81,81,81,81	0
56	MG	1A	4203	1/1	0.96	0.05	61,61,61,61	0
56	MG	2a	1810	1/1	0.96	0.06	129,129,129,129	0
56	MG	1A	4902	1/1	0.96	0.09	63,63,63,63	0
56	MG	1A	4223	1/1	0.96	0.05	70,70,70,70	0
56	MG	1A	4412	1/1	0.96	0.06	62,62,62,62	0
56	MG	1A	4128	1/1	0.96	0.17	60,60,60,60	0
56	MG	1A	4906	1/1	0.96	0.17	57,57,57,57	0
56	MG	1A	4650	1/1	0.96	0.17	63,63,63,63	0
56	MG	1A	4339	1/1	0.96	0.20	59,59,59,59	0
56	MG	1A	4821	1/1	0.96	0.09	73,73,73,73	0
56	MG	2A	3741	1/1	0.96	0.15	85,85,85,85	0
56	MG	1A	4684	1/1	0.96	0.17	52,52,52,52	0
56	MG	1A	4236	1/1	0.96	0.30	55,55,55,55	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1789	1/1	0.96	0.05	111,111,111,111	0
56	MG	2A	3117	1/1	0.96	0.09	134,134,134,134	0
56	MG	1A	4185	1/1	0.96	0.25	62,62,62,62	0
56	MG	2A	3234	1/1	0.96	0.16	103,103,103,103	0
56	MG	1A	4827	1/1	0.96	0.24	69,69,69,69	0
56	MG	2A	3819	1/1	0.96	0.07	42,42,42,42	0
56	MG	2A	3749	1/1	0.96	0.15	93,93,93,93	0
56	MG	1A	4266	1/1	0.96	0.17	58,58,58,58	0
56	MG	2a	1830	1/1	0.96	0.06	147,147,147,147	0
56	MG	1A	4239	1/1	0.96	0.10	56,56,56,56	0
56	MG	1A	4344	1/1	0.96	0.21	70,70,70,70	0
56	MG	1A	4421	1/1	0.96	0.10	58,58,58,58	0
56	MG	1A	4751	1/1	0.96	0.20	71,71,71,71	0
56	MG	1U	202	1/1	0.96	0.33	58,58,58,58	0
56	MG	1A	4969	1/1	0.96	0.12	63,63,63,63	0
56	MG	1W	201	1/1	0.96	0.13	72,72,72,72	0
56	MG	1A	5023	1/1	0.96	0.09	58,58,58,58	0
56	MG	2a	1916	1/1	0.96	0.04	63,63,63,63	0
56	MG	2a	1842	1/1	0.96	0.07	196,196,196,196	0
56	MG	1A	4921	1/1	0.96	0.10	71,71,71,71	0
56	MG	1A	4603	1/1	0.96	0.15	67,67,67,67	0
56	MG	1A	4834	1/1	0.96	0.14	72,72,72,72	0
56	MG	1a	1689	1/1	0.96	0.09	133,133,133,133	0
56	MG	1A	4310	1/1	0.96	0.23	73,73,73,73	0
56	MG	1A	4166	1/1	0.96	0.28	34,34,34,34	0
56	MG	2A	3766	1/1	0.96	0.09	66,66,66,66	0
56	MG	1A	4976	1/1	0.96	0.15	77,77,77,77	0
56	MG	2A	3436	1/1	0.96	0.13	104,104,104,104	0
56	MG	1A	4508	1/1	0.96	0.06	70,70,70,70	0
56	MG	1A	4978	1/1	0.96	0.24	60,60,60,60	0
56	MG	2A	3439	1/1	0.96	0.25	56,56,56,56	0
57	ZN	2Y	203	1/1	0.96	0.06	153,153,153,153	0
56	MG	1A	4098	1/1	0.96	0.15	53,53,53,53	0
56	MG	1A	4758	1/1	0.96	0.08	75,75,75,75	0
56	MG	1A	4173	1/1	0.96	0.17	57,57,57,57	0
56	MG	1A	4760	1/1	0.96	0.11	67,67,67,67	0
56	MG	2A	3317	1/1	0.96	0.09	81,81,81,81	0
56	MG	2a	1851	1/1	0.97	0.05	145,145,145,145	0
56	MG	2A	3352	1/1	0.97	0.10	89,89,89,89	0
56	MG	1A	4974	1/1	0.97	0.11	74,74,74,74	0
56	MG	1A	4552	1/1	0.97	0.12	71,71,71,71	0
56	MG	1A	4186	1/1	0.97	0.17	59,59,59,59	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3187	1/1	0.97	0.07	105,105,105,105	0
56	MG	1A	4816	1/1	0.97	0.07	75,75,75,75	0
56	MG	1A	4033	1/1	0.97	0.14	70,70,70,70	0
56	MG	2A	3496	1/1	0.97	0.07	99,99,99,99	0
56	MG	1a	1614	1/1	0.97	0.04	93,93,93,93	0
56	MG	1A	4792	1/1	0.97	0.04	66,66,66,66	0
56	MG	1A	4607	1/1	0.97	0.05	67,67,67,67	0
56	MG	1a	1721	1/1	0.97	0.04	134,134,134,134	0
56	MG	1A	4952	1/1	0.97	0.11	65,65,65,65	0
56	MG	1A	4192	1/1	0.97	0.11	68,68,68,68	0
56	MG	1A	4872	1/1	0.97	0.14	54,54,54,54	0
56	MG	1v	703	1/1	0.97	0.07	116,116,116,116	0
56	MG	1N	201	1/1	0.97	0.07	72,72,72,72	0
56	MG	2A	3074	1/1	0.97	0.09	138,138,138,138	0
56	MG	1x	302	1/1	0.97	0.07	45,45,45,45	0
56	MG	1a	1726	1/1	0.97	0.03	127,127,127,127	0
56	MG	1A	4735	1/1	0.97	0.08	65,65,65,65	0
56	MG	2a	1719	1/1	0.97	0.04	151,151,151,151	0
56	MG	1y	103	1/1	0.97	0.09	89,89,89,89	0
56	MG	1A	4775	1/1	0.97	0.10	78,78,78,78	0
56	MG	1A	4718	1/1	0.97	0.06	99,99,99,99	0
56	MG	1A	4849	1/1	0.97	0.04	84,84,84,84	0
56	MG	1A	4416	1/1	0.97	0.13	57,57,57,57	0
56	MG	1A	4582	1/1	0.97	0.17	65,65,65,65	0
56	MG	20	106	1/1	0.97	0.05	128,128,128,128	0
56	MG	1a	1695	1/1	0.97	0.04	159,159,159,159	0
56	MG	1A	4596	1/1	0.97	0.06	65,65,65,65	0
56	MG	2a	1679	1/1	0.97	0.06	166,166,166,166	0
56	MG	1A	4672	1/1	0.97	0.26	67,67,67,67	0
56	MG	2a	1832	1/1	0.97	0.06	138,138,138,138	0
56	MG	1P	205	1/1	0.97	0.05	95,95,95,95	0
56	MG	2a	1834	1/1	0.97	0.05	161,161,161,161	0
56	MG	2A	3384	1/1	0.97	0.23	105,105,105,105	0
56	MG	1A	4151	1/1	0.97	0.32	60,60,60,60	0
56	MG	1Q	202	1/1	0.97	0.07	67,67,67,67	0
56	MG	1A	4537	1/1	0.97	0.08	66,66,66,66	0
56	MG	1A	4937	1/1	0.97	0.07	58,58,58,58	0
56	MG	1A	4783	1/1	0.97	0.23	70,70,70,70	0
56	MG	2A	3847	1/1	0.97	0.09	91,91,91,91	0
56	MG	1S	201	1/1	0.97	0.29	74,74,74,74	0
56	MG	1A	4468	1/1	0.97	0.07	58,58,58,58	0
57	ZN	14	501	1/1	0.97	0.09	172,172,172,172	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1642	1/1	0.97	0.07	143,143,143,143	0
56	MG	1A	5061	1/1	0.97	0.03	91,91,91,91	0
56	MG	1A	4709	1/1	0.97	0.09	68,68,68,68	0
56	MG	1A	4511	1/1	0.97	0.08	68,68,68,68	0
58	SF4	1d	304	8/8	0.97	0.04	150,150,150,150	0
58	SF4	2d	303	8/8	0.97	0.04	166,166,166,166	0
56	MG	1A	4836	1/1	0.97	0.10	58,58,58,58	0
56	MG	1A	4109	1/1	0.97	0.20	54,54,54,54	0
56	MG	1A	4221	1/1	0.97	0.29	71,71,71,71	0
56	MG	1a	1727	1/1	0.98	0.05	127,127,127,127	0
56	MG	1a	1793	1/1	0.98	0.03	128,128,128,128	0
56	MG	1e	301	1/1	0.98	0.09	140,140,140,140	0
56	MG	1A	4382	1/1	0.98	0.06	68,68,68,68	0
56	MG	2b	301	1/1	0.98	0.03	199,199,199,199	0
56	MG	1A	4611	1/1	0.98	0.15	54,54,54,54	0
56	MG	1A	4028	1/1	0.98	0.10	58,58,58,58	0
56	MG	1A	4613	1/1	0.98	0.07	70,70,70,70	0
56	MG	2a	1831	1/1	0.98	0.06	145,145,145,145	0
56	MG	2A	3765	1/1	0.98	0.03	120,120,120,120	0
56	MG	1V	201	1/1	0.98	0.23	74,74,74,74	0
56	MG	1A	4438	1/1	0.98	0.04	65,65,65,65	0
56	MG	2A	3813	1/1	0.98	0.03	126,126,126,126	0
56	MG	1H	202	1/1	0.98	0.23	76,76,76,76	0
56	MG	2A	3592	1/1	0.98	0.08	129,129,129,129	0
56	MG	1A	4869	1/1	0.98	0.08	54,54,54,54	0
56	MG	1A	4016	1/1	0.98	0.16	68,68,68,68	0
56	MG	1O	202	1/1	0.98	0.04	82,82,82,82	0
56	MG	2A	3510	1/1	0.98	0.04	94,94,94,94	0
56	MG	1A	4092	1/1	0.98	0.05	60,60,60,60	0
56	MG	1A	4945	1/1	0.98	0.04	73,73,73,73	0
56	MG	2A	3471	1/1	0.98	0.06	113,113,113,113	0
56	MG	1A	4674	1/1	0.98	0.06	91,91,91,91	0
56	MG	1A	4967	1/1	0.98	0.04	83,83,83,83	0
56	MG	1A	4822	1/1	0.98	0.27	82,82,82,82	0
56	MG	1O	103	1/1	0.98	0.06	72,72,72,72	0
56	MG	2A	3357	1/1	0.98	0.03	87,87,87,87	0
56	MG	1A	4928	1/1	0.98	0.04	77,77,77,77	0
56	MG	1A	4675	1/1	0.98	0.04	104,104,104,104	0
56	MG	1A	4201	1/1	0.98	0.09	70,70,70,70	0
56	MG	1A	4994	1/1	0.98	0.04	79,79,79,79	0
56	MG	1D	304	1/1	0.98	0.04	75,75,75,75	0
56	MG	1A	4238	1/1	0.98	0.17	59,59,59,59	0

Continued on next page...

Continued from previous page...

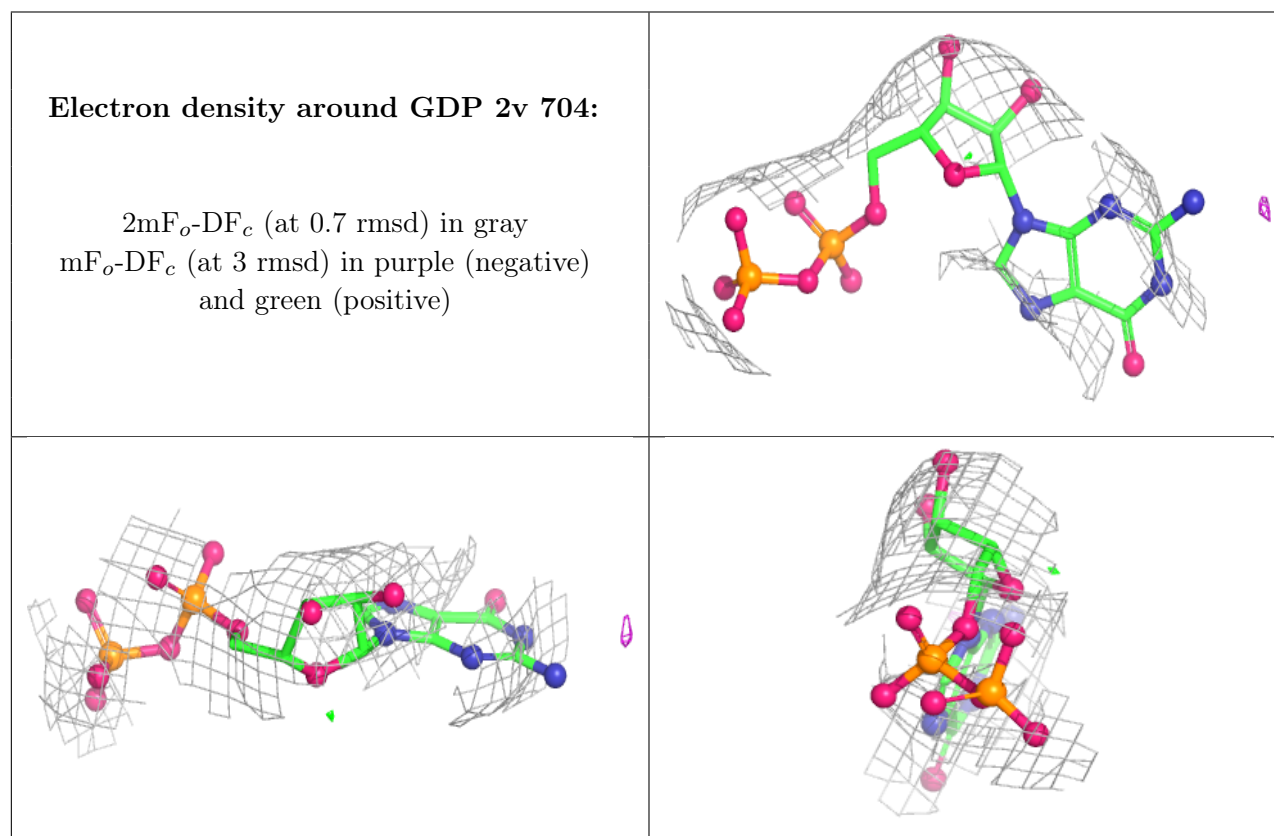
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1885	1/1	0.98	0.10	128,128,128,128	0
56	MG	1A	4471	1/1	0.98	0.07	60,60,60,60	0
56	MG	2A	3485	1/1	0.98	0.03	60,60,60,60	0
56	MG	1R	202	1/1	0.98	0.08	56,56,56,56	0
56	MG	1A	5046	1/1	0.98	0.15	78,78,78,78	0
56	MG	1A	4810	1/1	0.98	0.04	63,63,63,63	0
56	MG	2A	3369	1/1	0.98	0.04	84,84,84,84	0
56	MG	1A	4914	1/1	0.98	0.04	74,74,74,74	0
56	MG	1a	1787	1/1	0.98	0.03	124,124,124,124	0
57	ZN	26	102	1/1	0.98	0.03	130,130,130,130	0
57	ZN	29	103	1/1	0.98	0.07	143,143,143,143	0
56	MG	1A	5000	1/1	0.98	0.07	63,63,63,63	0
56	MG	2A	3075	1/1	0.98	0.03	142,142,142,142	0
56	MG	1T	202	1/1	0.98	0.10	83,83,83,83	0
56	MG	1A	4570	1/1	0.98	0.07	60,60,60,60	0
56	MG	2A	3580	1/1	0.98	0.06	118,118,118,118	0
56	MG	1A	4680	1/1	0.98	0.04	82,82,82,82	0
56	MG	1A	5039	1/1	0.99	0.04	68,68,68,68	0
56	MG	1A	4572	1/1	0.99	0.06	83,83,83,83	0
56	MG	1A	4856	1/1	0.99	0.03	60,60,60,60	0
56	MG	1A	4591	1/1	0.99	0.04	85,85,85,85	0
56	MG	1A	4996	1/1	0.99	0.04	71,71,71,71	0
56	MG	1A	4567	1/1	0.99	0.08	56,56,56,56	0
56	MG	1A	4793	1/1	0.99	0.02	108,108,108,108	0
56	MG	1A	4825	1/1	0.99	0.03	92,92,92,92	0
56	MG	1A	4918	1/1	0.99	0.05	61,61,61,61	0
56	MG	2A	3455	1/1	0.99	0.04	90,90,90,90	0
56	MG	1A	5048	1/1	0.99	0.03	65,65,65,65	0
56	MG	1a	1720	1/1	0.99	0.02	124,124,124,124	0
56	MG	1A	5001	1/1	0.99	0.03	65,65,65,65	0
56	MG	1A	4979	1/1	0.99	0.04	58,58,58,58	0
56	MG	1A	4794	1/1	0.99	0.05	67,67,67,67	0
56	MG	1A	4755	1/1	0.99	0.04	60,60,60,60	0
56	MG	1a	1806	1/1	0.99	0.03	135,135,135,135	0
56	MG	1A	4744	1/1	0.99	0.04	69,69,69,69	0
57	ZN	1Y	302	1/1	0.99	0.04	96,96,96,96	0
56	MG	1E	307	1/1	0.99	0.04	62,62,62,62	0
56	MG	1A	4769	1/1	0.99	0.04	72,72,72,72	0
56	MG	1A	4654	1/1	0.99	0.06	84,84,84,84	0
56	MG	1A	4814	1/1	0.99	0.03	59,59,59,59	0
57	ZN	25	102	1/1	0.99	0.04	119,119,119,119	0
56	MG	1A	4351	1/1	0.99	0.07	67,67,67,67	0

Continued on next page...

Continued from previous page...

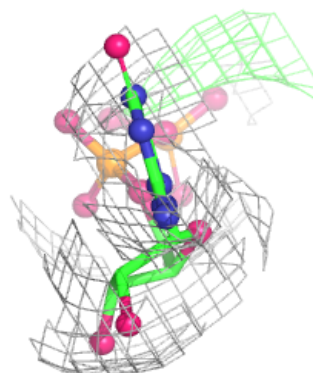
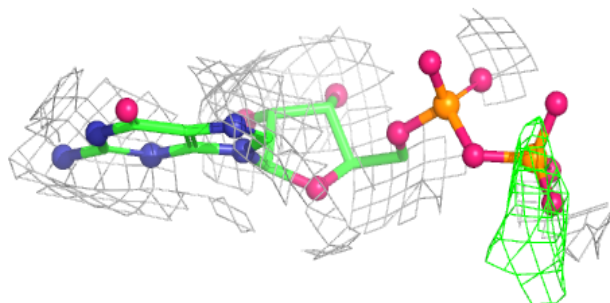
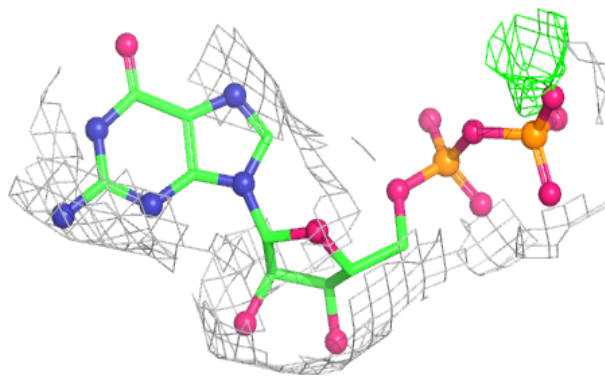
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4325	1/1	0.99	0.05	63,63,63,63	0
56	MG	1A	4254	1/1	0.99	0.06	66,66,66,66	0
56	MG	1A	4498	1/1	0.99	0.06	63,63,63,63	0
56	MG	2A	3820	1/1	0.99	0.04	106,106,106,106	0
56	MG	1A	4597	1/1	0.99	0.05	65,65,65,65	0
56	MG	1A	4614	1/1	0.99	0.03	71,71,71,71	0
56	MG	1A	4873	1/1	0.99	0.04	55,55,55,55	0
57	ZN	15	103	1/1	1.00	0.02	74,74,74,74	0
57	ZN	16	102	1/1	1.00	0.02	82,82,82,82	0
57	ZN	19	102	1/1	1.00	0.04	80,80,80,80	0

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



Electron density around GDP 1v 704:

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



6.5 Other polymers [i](#)

There are no such residues in this entry.