



wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 2, 2026 – 01:17 AM EDT

PDB ID : 12DP / pdb_000012dp
Title : Crystal structure of the wild-type *Thermus thermophilus* 70S ribosome in complex with sparsomycin, mRNA, and aminoacylated initiator P-site fMet-tRNA^{Met} at 2.95Å resolution
Authors : Paranjpe, M.N.; Leroy, E.C.; Syroegin, E.A.; Flemmich, L.; Thaler, J.; Gillard, M.; Bougas, A.; Kournoutou, G.; Dinos, G.P.; Renault, T.T.; Micura, R.; Innis, C.A.; Polikanov, Y.S.
Deposited on : 2026-03-30
Resolution : 2.95 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)

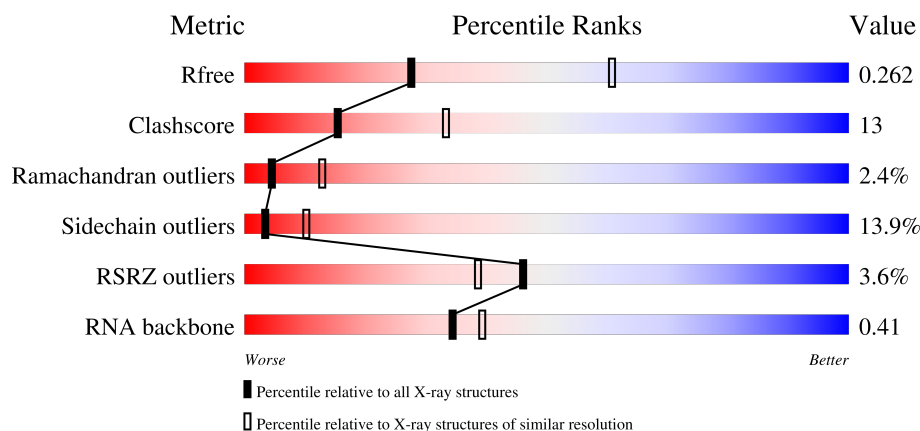
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.95 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	1130 (2.98-2.94)
Clashscore	190562	1157 (2.98-2.94)
Ramachandran outliers	187476	1101 (2.98-2.94)
Sidechain outliers	187428	1101 (2.98-2.94)
RSRZ outliers	180081	1130 (2.98-2.94)
RNA backbone	3983	1046 (3.16-2.76)

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	

Continued on next page...

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

Continued from previous page...

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

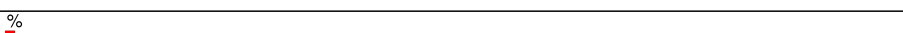
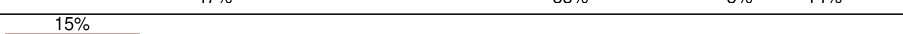
Continued on next page...

Continued from previous page...

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

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
27	15	60	
27	25	60	
28	16	54	
28	26	54	
29	17	49	
29	27	49	
30	18	65	
30	28	65	
31	19	37	
31	29	37	
32	1a	1521	
32	2a	1521	
33	1b	256	
33	2b	256	
34	1c	239	
34	2c	239	
35	1d	209	
35	2d	209	
36	1e	162	
36	2e	162	
37	1f	101	
37	2f	101	
38	1g	156	
38	2g	156	
39	1h	138	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
39	2h	138	
40	1i	128	
40	2i	128	
41	1j	105	
41	2j	105	
42	1k	129	
42	2k	129	
43	1l	132	
43	2l	132	
44	1m	126	
44	2m	126	
45	1n	61	
45	2n	61	
46	1o	89	
46	2o	89	
47	1p	88	
47	2p	88	
48	1q	105	
48	2q	105	
49	1r	88	
49	2r	88	
50	1s	93	
50	2s	93	
51	1t	106	
51	2t	106	

Continued on next page...

Continued from previous page...

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

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	10	104	-	-	-	X
55	MG	1A	3474	-	-	-	X
55	MG	1A	3599	-	-	-	X
55	MG	1A	3842	-	-	-	X
55	MG	1A	3870	-	-	-	X
55	MG	1A	3885	-	-	-	X
55	MG	1A	3909	-	-	-	X
55	MG	1A	3923	-	-	-	X
55	MG	2A	3185	-	-	-	X
55	MG	2A	3232	-	-	-	X
55	MG	2A	3243	-	-	-	X
55	MG	2A	3291	-	-	-	X
55	MG	2A	3419	-	-	-	X
55	MG	2A	3452	-	-	-	X
55	MG	2a	3100	-	-	-	X
55	MG	2a	3108	-	-	-	X
55	MG	2a	3133	-	-	-	X
55	MG	2a	3134	-	-	-	X
55	MG	2v	101	-	-	-	X
59	SF4	2d	304	-	-	X	-

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 293578 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	202	Total	C	N	O	S	0	0	0
			1583	1009	297	275	2			
5	2F	202	Total	C	N	O	S	0	0	0
			1579	1007	296	274	2			

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

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

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

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

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

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

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

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

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

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

Continued on next page...

Continued from previous page...

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	1Z	185	Total	C	N	O	S	0	0	0
			1461	932	261	266	2			
21	2Z	178	Total	C	N	O	S	0	0	0
			1390	890	247	251	2			

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

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

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

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

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

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

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

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

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

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

Continued on next page...

Continued from previous page...

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Continued on next page...

Continued from previous page...

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 53 is a RNA chain called MET-PHE-mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1v	5	Total	C	N	O	P	0	0	0
			109	49	22	33	5			
53	2v	8	Total	C	N	O	P	0	0	0
			173	78	34	53	8			

- Molecule 54 is a RNA chain called P-site Aminoacylated tRNAm^{et}.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1x	77	Total	C	N	O	P	S	0	0	0
			1646	734	298	536	77	1			
54	2x	77	Total	C	N	O	P	S	0	0	0
			1646	734	298	536	77	1			

- Molecule 55 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	1A	1103	Total	Mg	0	0
			1103	1103		
55	1B	36	Total	Mg	0	0
			36	36		
55	1D	11	Total	Mg	0	0
			11	11		
55	1E	14	Total	Mg	0	0
			14	14		
55	1F	11	Total	Mg	0	0
			11	11		
55	1G	5	Total	Mg	0	0
			5	5		
55	1H	1	Total	Mg	0	0
			1	1		
55	1I	1	Total	Mg	0	0
			1	1		
55	1N	6	Total	Mg	0	0
			6	6		
55	1O	5	Total	Mg	0	0
			5	5		
55	1P	8	Total	Mg	0	0
			8	8		
55	1Q	7	Total	Mg	0	0
			7	7		
55	1R	4	Total	Mg	0	0
			4	4		
55	1S	3	Total	Mg	0	0
			3	3		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	1T	3	Total 3	Mg 3	0	0
55	1U	9	Total 9	Mg 9	0	0
55	1V	8	Total 8	Mg 8	0	0
55	1W	7	Total 7	Mg 7	0	0
55	1X	6	Total 6	Mg 6	0	0
55	1Y	2	Total 2	Mg 2	0	0
55	1Z	4	Total 4	Mg 4	0	0
55	10	8	Total 8	Mg 8	0	0
55	11	5	Total 5	Mg 5	0	0
55	12	2	Total 2	Mg 2	0	0
55	13	7	Total 7	Mg 7	0	0
55	14	1	Total 1	Mg 1	0	0
55	15	8	Total 8	Mg 8	0	0
55	16	1	Total 1	Mg 1	0	0
55	17	4	Total 4	Mg 4	0	0
55	18	6	Total 6	Mg 6	0	0
55	19	1	Total 1	Mg 1	0	0
55	1a	213	Total 213	Mg 213	0	0
55	1b	1	Total 1	Mg 1	0	0
55	1d	1	Total 1	Mg 1	0	0
55	1e	2	Total 2	Mg 2	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	1f	1	Total 1	Mg 1	0	0
55	1l	2	Total 2	Mg 2	0	0
55	1m	1	Total 1	Mg 1	0	0
55	1n	1	Total 1	Mg 1	0	0
55	1p	1	Total 1	Mg 1	0	0
55	1r	1	Total 1	Mg 1	0	0
55	1t	1	Total 1	Mg 1	0	0
55	1x	11	Total 11	Mg 11	0	0
55	2A	849	Total 849	Mg 849	0	0
55	2B	20	Total 20	Mg 20	0	0
55	2D	6	Total 6	Mg 6	0	0
55	2E	8	Total 8	Mg 8	0	0
55	2F	7	Total 7	Mg 7	0	0
55	2G	1	Total 1	Mg 1	0	0
55	2O	2	Total 2	Mg 2	0	0
55	2P	2	Total 2	Mg 2	0	0
55	2Q	2	Total 2	Mg 2	0	0
55	2R	4	Total 4	Mg 4	0	0
55	2T	4	Total 4	Mg 4	0	0
55	2U	2	Total 2	Mg 2	0	0
55	2V	1	Total 1	Mg 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	2W	4	Total 4	Mg 4	0	0
55	2X	1	Total 1	Mg 1	0	0
55	2Y	1	Total 1	Mg 1	0	0
55	2Z	1	Total 1	Mg 1	0	0
55	20	3	Total 3	Mg 3	0	0
55	21	1	Total 1	Mg 1	0	0
55	23	2	Total 2	Mg 2	0	0
55	25	4	Total 4	Mg 4	0	0
55	27	2	Total 2	Mg 2	0	0
55	28	3	Total 3	Mg 3	0	0
55	2a	226	Total 226	Mg 226	0	0
55	2d	3	Total 3	Mg 3	0	0
55	2e	1	Total 1	Mg 1	0	0
55	2f	2	Total 2	Mg 2	0	0
55	2j	1	Total 1	Mg 1	0	0
55	2l	4	Total 4	Mg 4	0	0
55	2q	3	Total 3	Mg 3	0	0
55	2r	1	Total 1	Mg 1	0	0
55	2t	1	Total 1	Mg 1	0	0
55	2u	1	Total 1	Mg 1	0	0
55	2v	2	Total 2	Mg 2	0	0

Continued on next page...

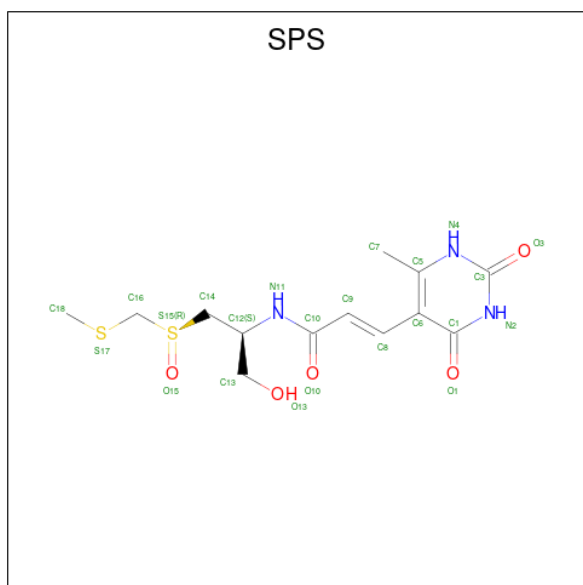
Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	2x	6	Total	Mg	0	0
			6	6		

- Molecule 56 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1	Total	K	0	0
			1	1		
56	2A	1	Total	K	0	0
			1	1		

- Molecule 57 is SPARSOMYCIN (CCD ID: SPS) (formula: C₁₃H₁₉N₃O₅S₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
57	1A	1	Total	C	N	O	S	0	0
			23	13	3	5	2		
57	2A	1	Total	C	N	O	S	0	0
			23	13	3	5	2		

- Molecule 58 is ZINC ION (CCD ID: ZN) (formula: Zn).

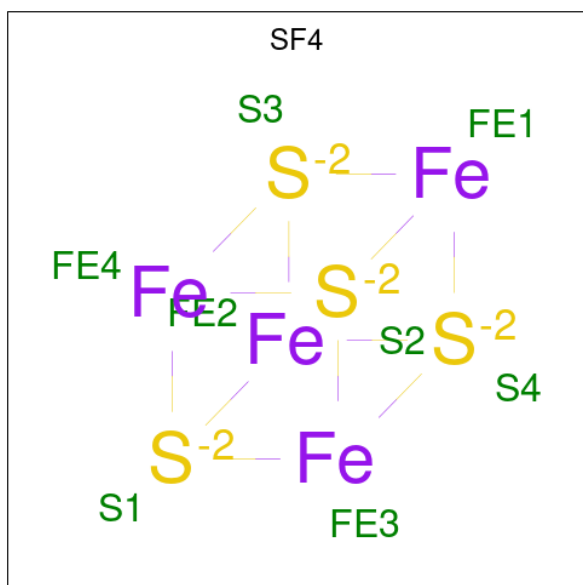
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1Y	1	Total	Zn	0	0
			1	1		

Continued on next page...

Continued from previous page...

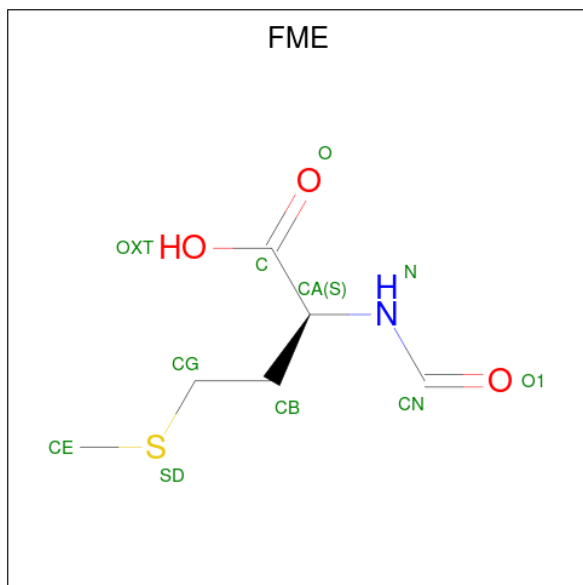
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	14	1	Total 1	Zn 1	0	0
58	15	1	Total 1	Zn 1	0	0
58	16	1	Total 1	Zn 1	0	0
58	19	1	Total 1	Zn 1	0	0
58	1n	1	Total 1	Zn 1	0	0
58	2Y	1	Total 1	Zn 1	0	0
58	24	1	Total 1	Zn 1	0	0
58	25	1	Total 1	Zn 1	0	0
58	26	1	Total 1	Zn 1	0	0
58	29	1	Total 1	Zn 1	0	0
58	2n	1	Total 1	Zn 1	0	0

- Molecule 59 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
59	1d	1	Total	Fe	S	0	0
			8	4	4		
59	2d	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 60 is N-FORMYLMETHIONINE (CCD ID: FME) (formula: $C_6H_{11}NO_3S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
60	1x	1	Total	C	N	O	S	0	0
			10	6	1	2	1		
60	2x	1	Total	C	N	O	S	0	0
			10	6	1	2	1		

- Molecule 61 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1A	1951	Total	O	0	0
			1951	1951		
61	1B	60	Total	O	0	0
			60	60		
61	1D	29	Total	O	0	0
			29	29		
61	1E	26	Total	O	0	0
			26	26		
61	1F	18	Total	O	0	0
			18	18		
61	1G	4	Total	O	0	0
			4	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1H	2	Total	O	0	0
			2	2		
61	1N	7	Total	O	0	0
			7	7		
61	1O	6	Total	O	0	0
			6	6		
61	1P	23	Total	O	0	0
			23	23		
61	1Q	5	Total	O	0	0
			5	5		
61	1R	13	Total	O	0	0
			13	13		
61	1S	6	Total	O	0	0
			6	6		
61	1T	8	Total	O	0	0
			8	8		
61	1U	14	Total	O	0	0
			14	14		
61	1V	7	Total	O	0	0
			7	7		
61	1W	8	Total	O	0	0
			8	8		
61	1X	4	Total	O	0	0
			4	4		
61	1Y	3	Total	O	0	0
			3	3		
61	1Z	1	Total	O	0	0
			1	1		
61	10	9	Total	O	0	0
			9	9		
61	11	7	Total	O	0	0
			7	7		
61	12	4	Total	O	0	0
			4	4		
61	13	5	Total	O	0	0
			5	5		
61	15	7	Total	O	0	0
			7	7		
61	16	1	Total	O	0	0
			1	1		
61	17	11	Total	O	0	0
			11	11		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	18	8	Total 8	O 8	0	0
61	1a	303	Total 303	O 303	0	0
61	1b	1	Total 1	O 1	0	0
61	1d	1	Total 1	O 1	0	0
61	1e	1	Total 1	O 1	0	0
61	1f	1	Total 1	O 1	0	0
61	1i	1	Total 1	O 1	0	0
61	1l	6	Total 6	O 6	0	0
61	1m	1	Total 1	O 1	0	0
61	1q	2	Total 2	O 2	0	0
61	1v	4	Total 4	O 4	0	0
61	1x	5	Total 5	O 5	0	0
61	2A	1050	Total 1050	O 1050	0	0
61	2B	20	Total 20	O 20	0	0
61	2D	19	Total 19	O 19	0	0
61	2E	17	Total 17	O 17	0	0
61	2F	15	Total 15	O 15	0	0
61	2N	1	Total 1	O 1	0	0
61	2O	2	Total 2	O 2	0	0
61	2P	11	Total 11	O 11	0	0
61	2Q	1	Total 1	O 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	2R	2	Total 2	O 2	0	0
61	2T	5	Total 5	O 5	0	0
61	2U	3	Total 3	O 3	0	0
61	2W	2	Total 2	O 2	0	0
61	2X	4	Total 4	O 4	0	0
61	20	5	Total 5	O 5	0	0
61	21	7	Total 7	O 7	0	0
61	23	2	Total 2	O 2	0	0
61	27	2	Total 2	O 2	0	0
61	28	3	Total 3	O 3	0	0
61	29	1	Total 1	O 1	0	0
61	2a	198	Total 198	O 198	0	0
61	2c	1	Total 1	O 1	0	0
61	2e	2	Total 2	O 2	0	0
61	2g	1	Total 1	O 1	0	0
61	2j	2	Total 2	O 2	0	0
61	2k	1	Total 1	O 1	0	0
61	2l	5	Total 5	O 5	0	0
61	2m	1	Total 1	O 1	0	0
61	2r	1	Total 1	O 1	0	0
61	2t	1	Total 1	O 1	0	0

Continued on next page...

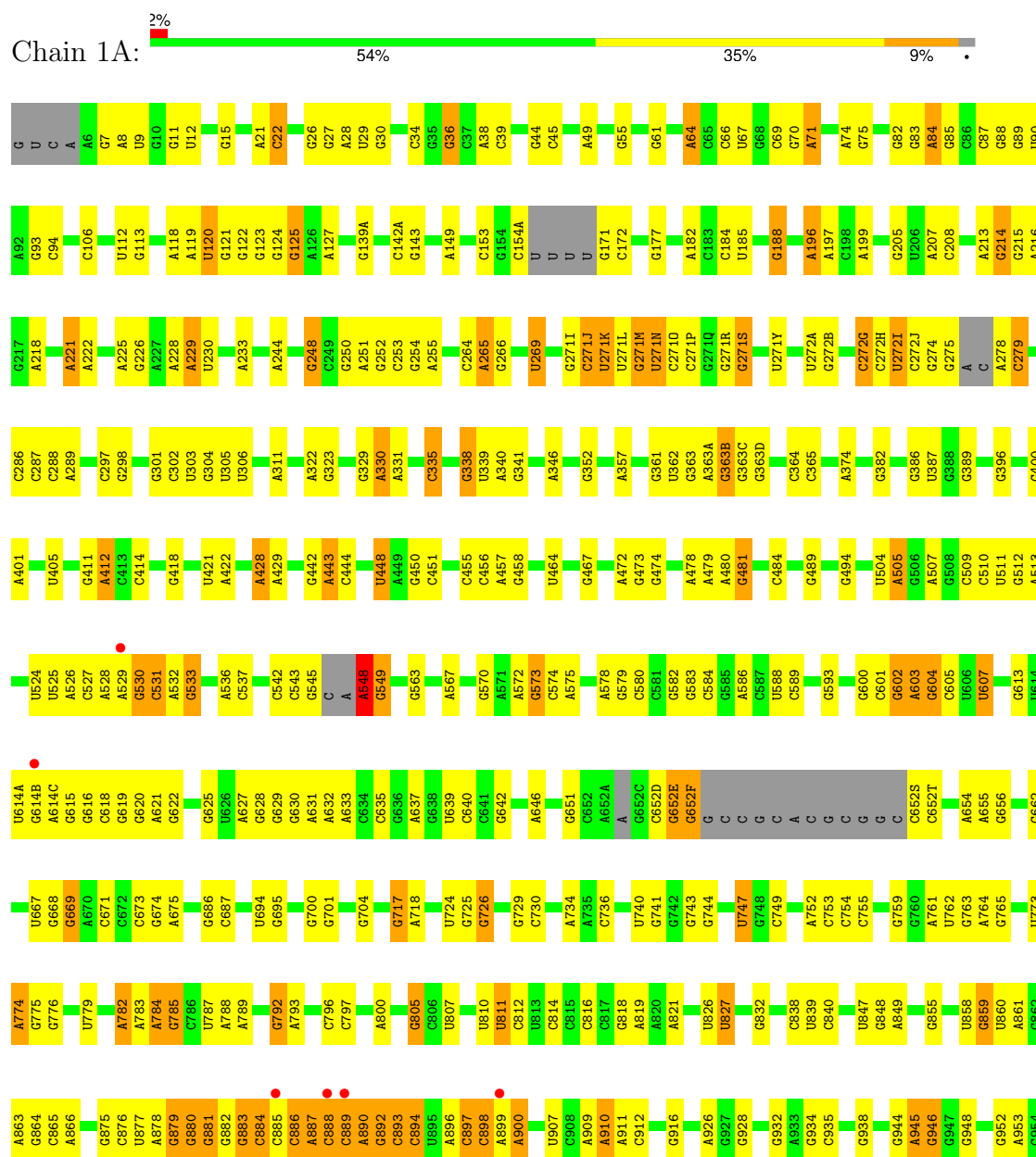
Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	2v	1	Total	O	0	0
			1	1		
61	2x	2	Total	O	0	0
			2	2		

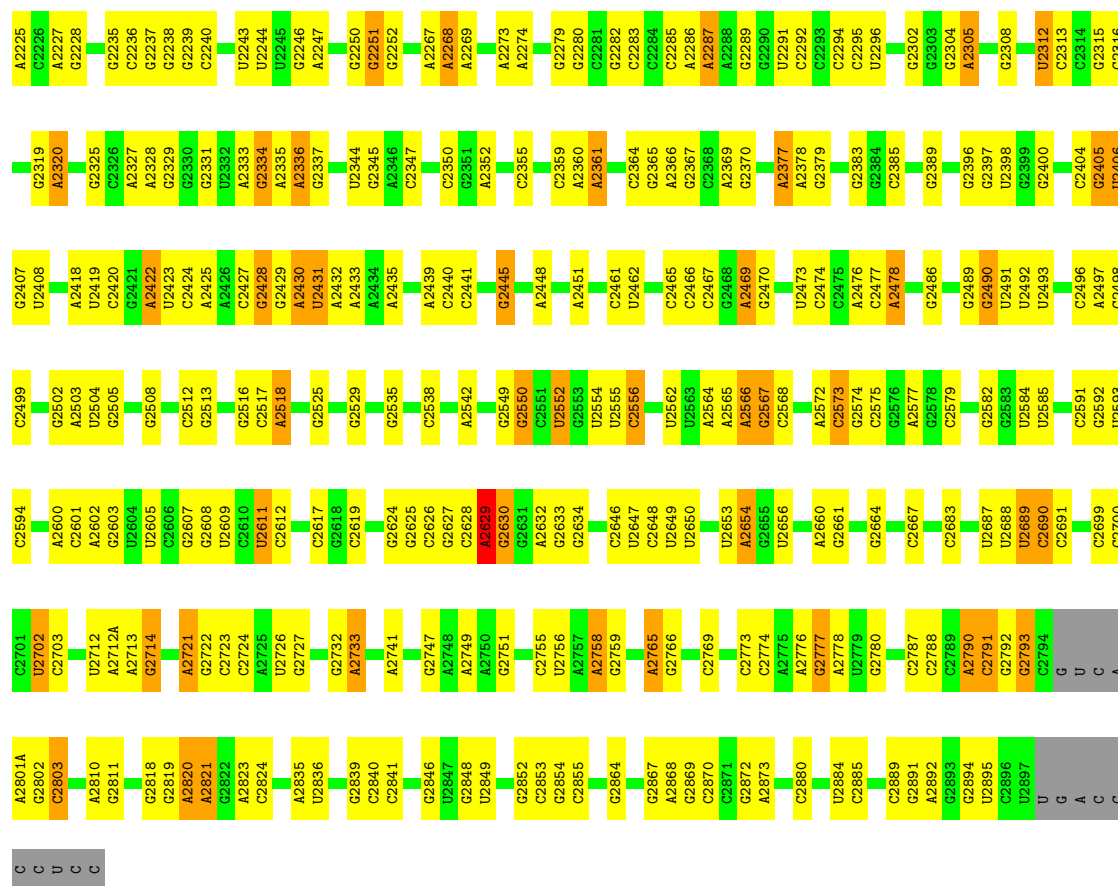
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

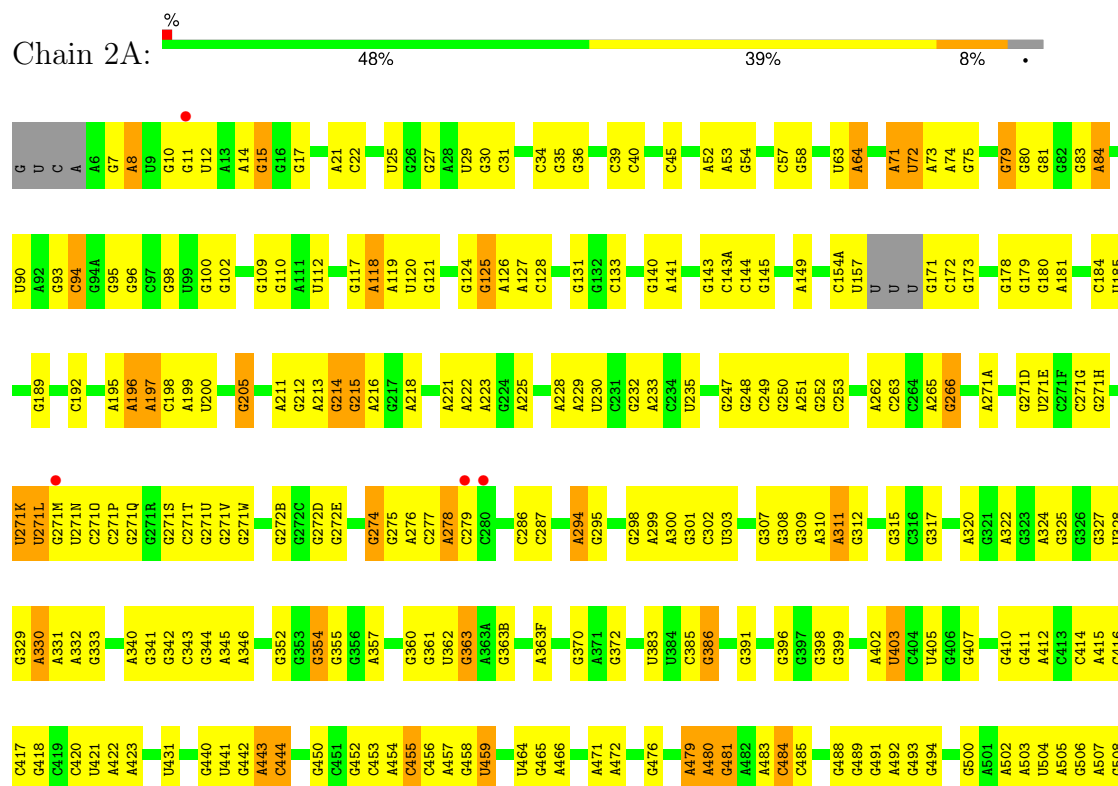
• Molecule 1: 23S Ribosomal RNA



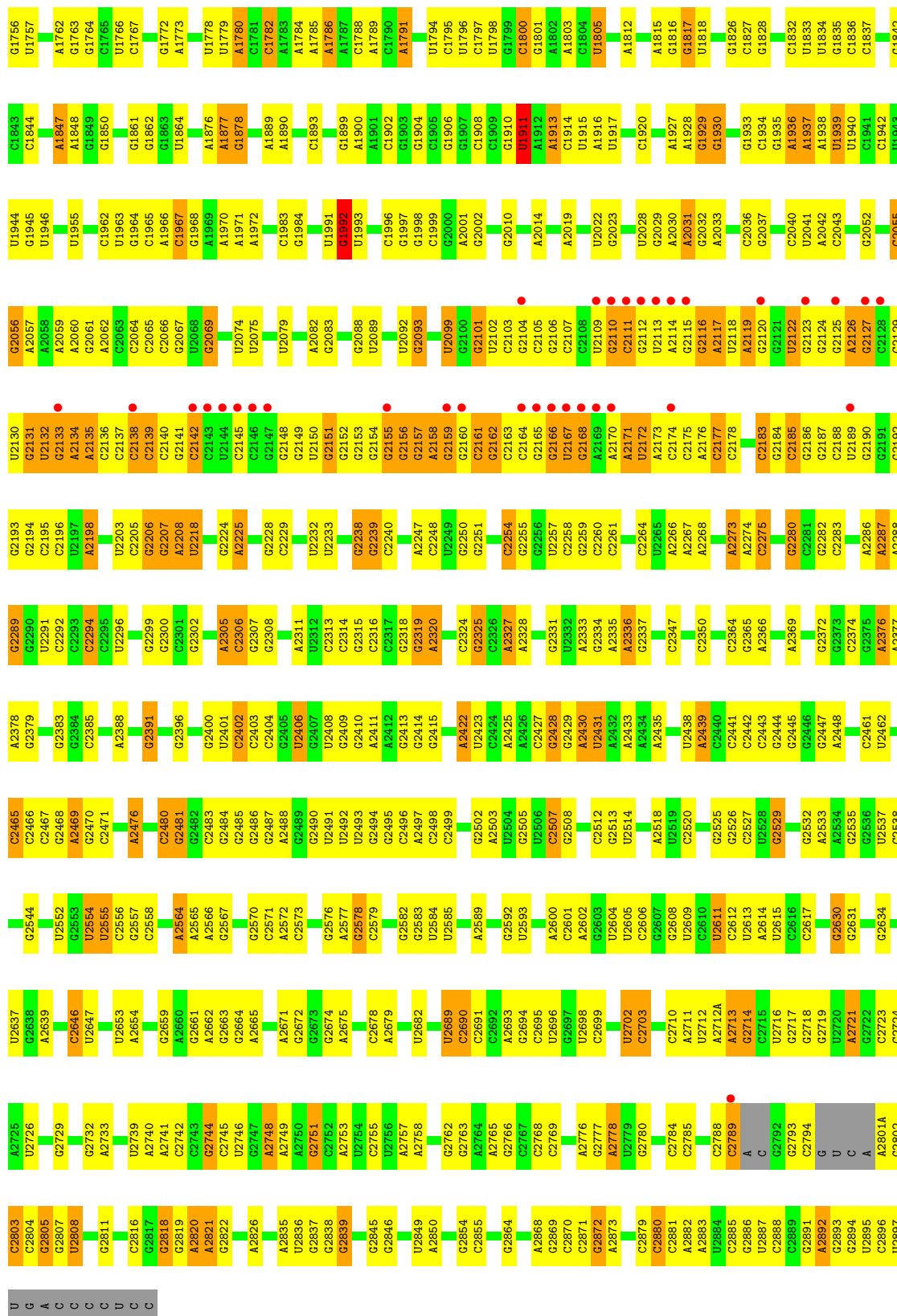


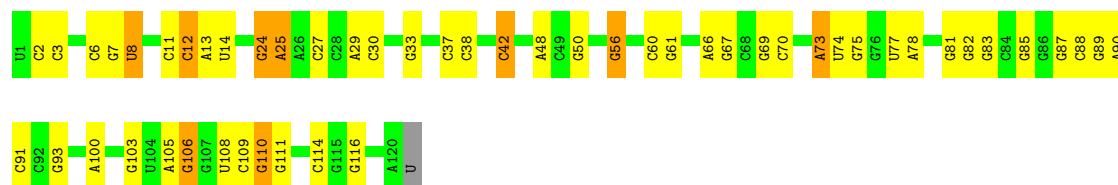


• Molecule 1: 23S Ribosomal RNA

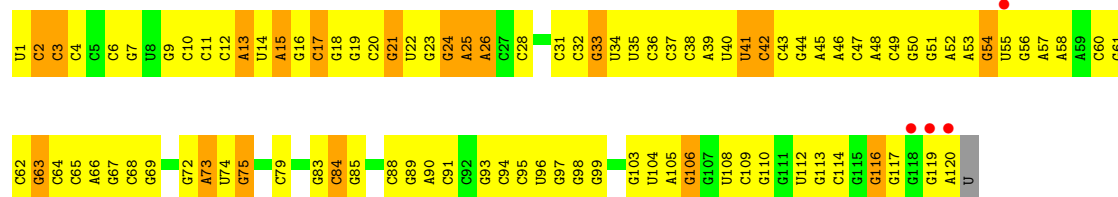


C1640	A1553	C1468	A1378	U1288	A	C	G	G975A	C903	U828	C753	C	G599	C509
A1641	C1556	A1469	A1379	U1289	C1178	U	A	C976	C904	A829	C759	G652T	G599	C510
G1642	C1557	G1470	G1380	C1291	C1179	G	A	G977	U905	G832	G760	G652U	G600	U511
C1648	A1558	A1472	A1384	U1292	C1181	U	A	A980	C908	U839	U761	G656	G602	G512
A1652	G1559	G1474	C1386	C1297	A1182	C	A	C982	A909	U839	G763	G658	A603	A515
G1653	A1567	G1475	C1386	C1298	G1183	G	A	A983	A910	U839	A764	C659	G604	C516
A1654	G1568	C1476	U1394	G1299	G1187	A	G	A984	A911	C844		G660	G606	C517
C1657	A1569	A1477	A1395	C1300	U1188	U1113	C	C985	C914	G845		G662	U607	G518
U1658	U1576	C1478	G401	A1301	A1189	G1114	A	C986		U847		G662	A608	U519
U1659	C1577	A1479	C1402	A1302	G1190	G1115	G	G987	A917	G848		G662	A609	G520
C1660	U1578			C1306	G1191	G1116	G	A988	A918	A849			G610	A528
G1661	U1579	U1405	U1406	A1307	G1192	G1117	A		G919				G611	A529
A1665	C1580	C1407	U1407	A1308	G1195	C1118	G	G993	G920	G854			G611	A530
A1669	C1581	C1408	C1408	C1314	G1195	G1118	G	C994	G921	G855			U614	C531
C1670	C1582	A1494	C1409	C1315	C1200	G1125	U	C995	U922	G856			U614A	A532
U1671	C1583	A1495	C1411	C1316	C1201	A1126	U	A996	C923	C857			A614B	G539
A1684	C1584	A1496	C1412	U1316	G1202	A1129	G	C997	C924	U858			A614C	C540
A1586	U1497	C1498	G1413	A1317	G1203	U1130	C	C998	C925	G859			G615	
C1588	C1498	C1499	G1413	A1317	A1204	G1131	U	A1000	G928	A861			G616	C
C1588	C1499	G1500	G1416	C1320	A1210	C1135	U	A1001		G862			G625	A
C1589	U1590		G1417	A1321	U1211	G1136	A	G1002	G932	U787			A627	
U1591	C1591		G1418	A1322			A	G1003	G933	G864				
C1592	C1592	U1503	A1419	C1327	A1220	G1139	G	C1004	G934					
G1593	G1593	C1504	A1420	G1328	A1220	C1140	A	C1005	C935	C867			A631	G558
C1594	C1594	C1505	G1421	U1329	G1223	C1141	G	C1006	A941	U868			G635	
A1596	A1596	A1507	G1421	C1330	U1141	G1141	C	C1007	G942	G869			G636	G551
C1599	C1599	C1508	C1428	A1331	A1226	U1142	A		U943	A877			A637	
C1600	C1600	A1509A	G1429	G1332	G1227	A1143	C		G944	U878			G642	G563
A1603	A1603	U1514	C1430	C1333	U1240	G1144	C		A945	G874			G643	C565
C1604	C1604	G1515	A1434	U1336	A1241	G1148	A		G946	G875			A644	U566
C1607	C1607	U1523	G1436	G1337	G1248	C1150	C		G947	C876			G645	A567
A1608	A1608	G1526	C1437	U1340	G1252	G1151	U		C949	A879			A646	U568
A1609	A1609	G1527	G1442	U1341	A1253	C1152	U		A953	G880			G647	U569
A1610	A1610	A1528	G1443	G1346	U1254	G1153	A		C954	G881			G648	G570
G1613	G1613	A1528A	G1444	U1352	U1255	A1155	A		C955	C882			G649	A571
A1614	A1614	G1529	A1445	U1352	G1256	A1156	A		C956	C883			G650	A572
G1619	G1619	C1531	G1448	U1356	U1263	U1159	A		A957	C884			G651	G573
G1622	G1622	U	C1450A	G1358	A1268	G1162	G		U958	C885			A652B	C574
G1625	G1625	A	C1451	A1359	G1271	G1163	G		C958	C886			G652C	A575
G1627	G1627	C1536	A1452	A1360	A1272	C1166	U		U959	C887			G652D	U576
G1633	G1633	U1540	G1453	G1364	U1273	U1167	A		A960	A887			G652E	G577
C1636	C1636	G1541	G1455	A1365	U1273	G1168	A		C961	C888			G	A578
A1637	A1637	A1542	A1460	C1370	G1277	G1169	U		C962	C889			C	G579
G1747A	G1747A	C1543	G1461	G1371	U1278	G1170	A		C963	A890			C	C580
G1748	G1748	C1547	G1465	U1372	G1280	G1171	C		U963	G892			C	C581
C1754	C1754	C1638	G1466	C1376	A1284	U	U		G966	C893			C	G582
A1755	A1755	U1639	C1467	G1377	G1285	G	A		C967	C894			C	G583
									C968	U895			C	A586
									U969	A896			C	C587
									C970	C897			C	U588
									C971	C898			C	C589
									C972	A899			C	U589
									C973	A900			C	A590
									C974	A901			C	C591
									C975	C902			C	

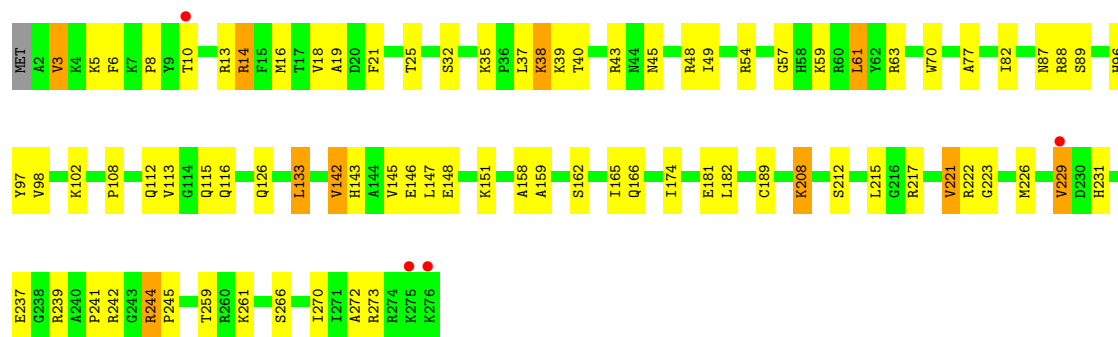




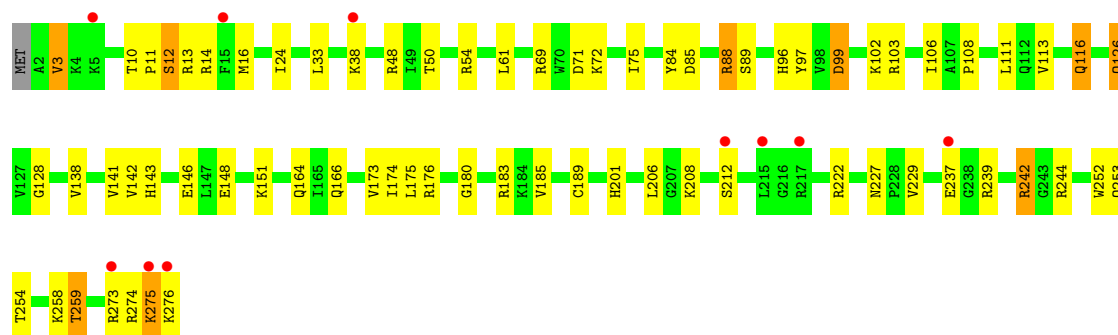
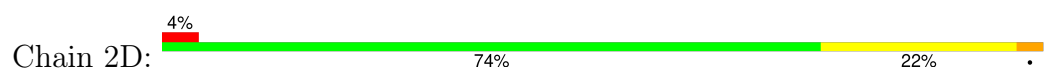
- Molecule 2: 5S Ribosomal RNA



- Molecule 3: 50S ribosomal protein L2

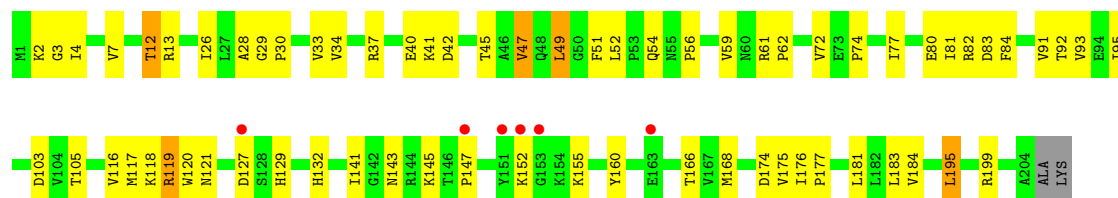


- Molecule 3: 50S ribosomal protein L2

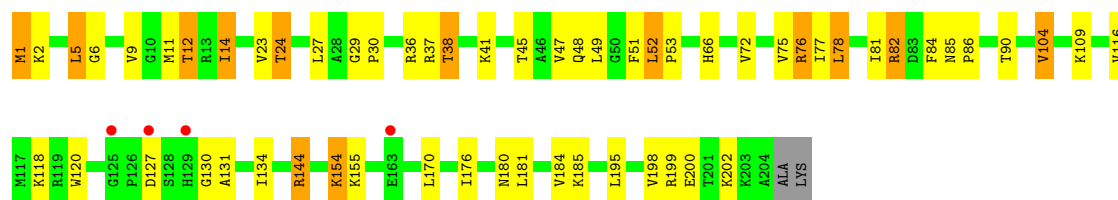


- Molecule 4: 50S ribosomal protein L3

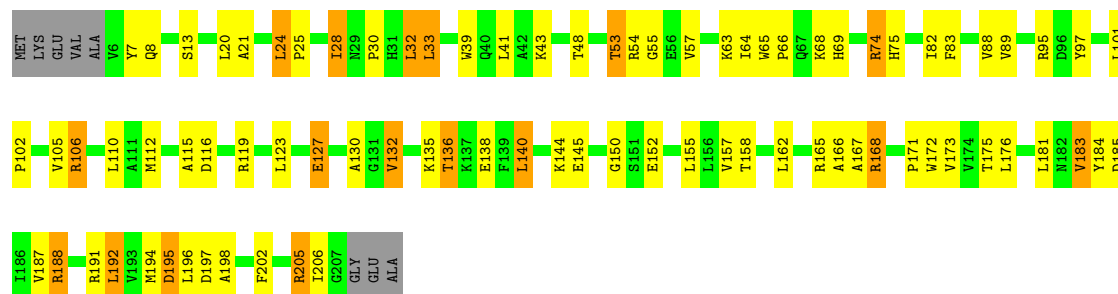




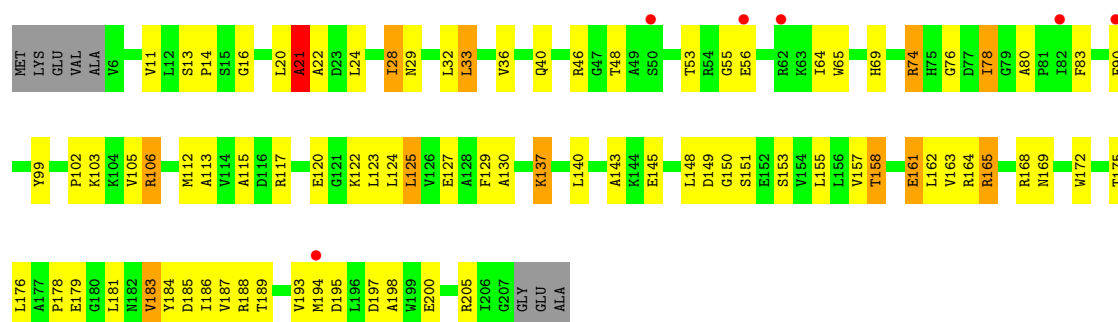
• Molecule 4: 50S ribosomal protein L3



• Molecule 5: 50S ribosomal protein L4

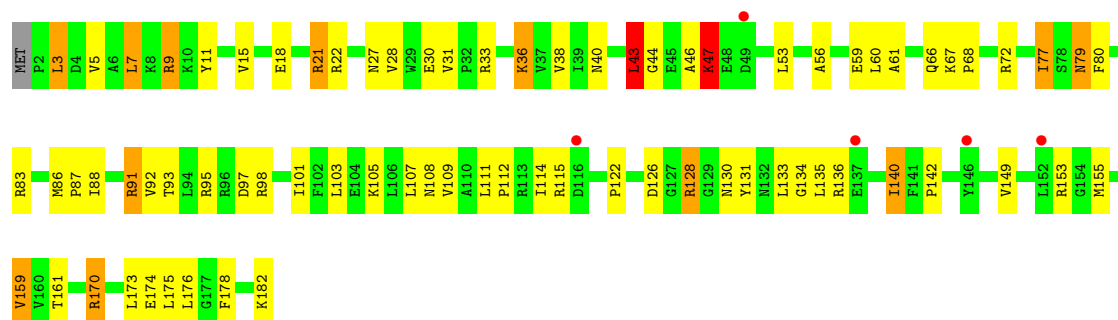


• Molecule 5: 50S ribosomal protein L4

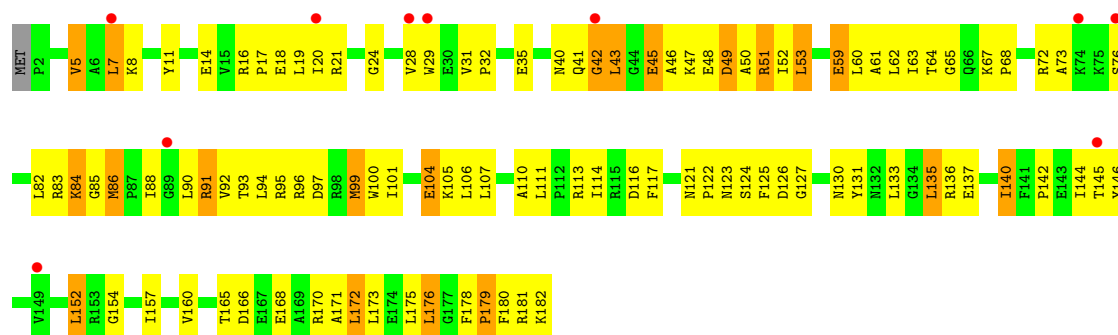
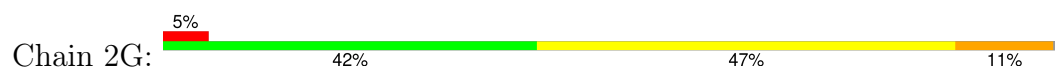


• Molecule 6: 50S ribosomal protein L5

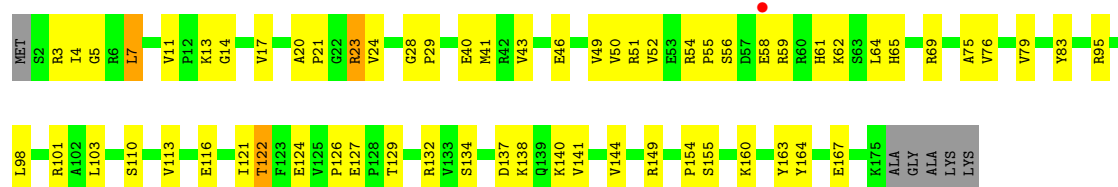




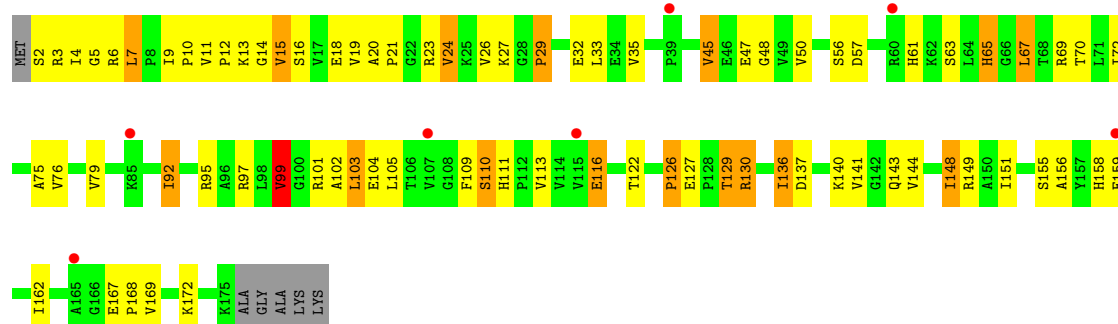
• Molecule 6: 50S ribosomal protein L5



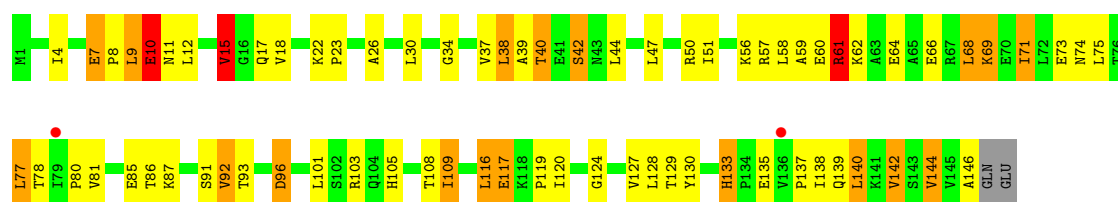
• Molecule 7: 50S ribosomal protein L6



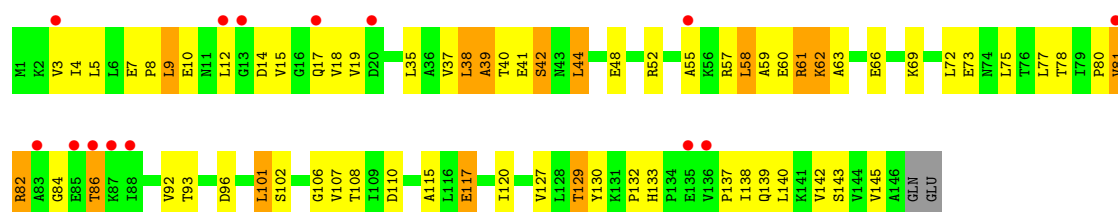
• Molecule 7: 50S ribosomal protein L6



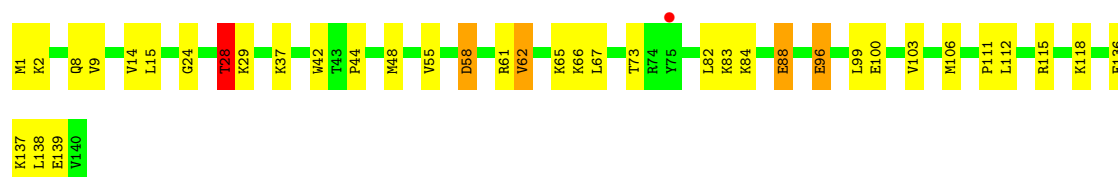
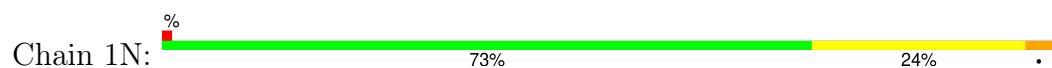
• Molecule 8: 50S ribosomal protein L9



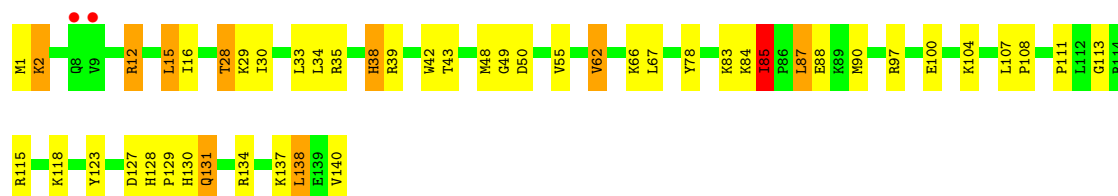
• Molecule 8: 50S ribosomal protein L9



• Molecule 9: 50S ribosomal protein L13



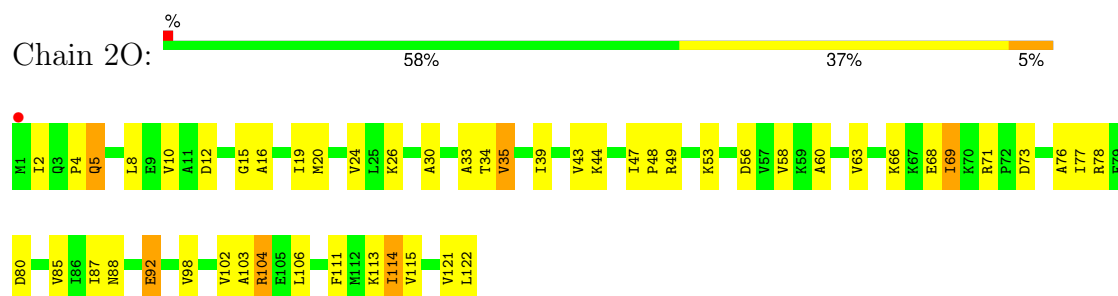
• Molecule 9: 50S ribosomal protein L13



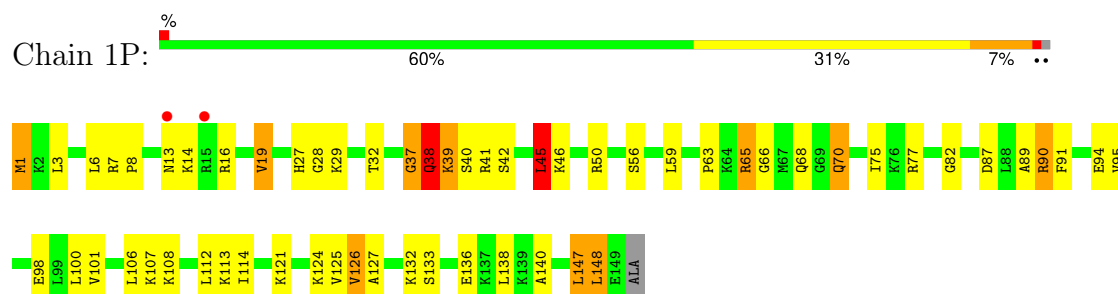
• Molecule 10: 50S ribosomal protein L14



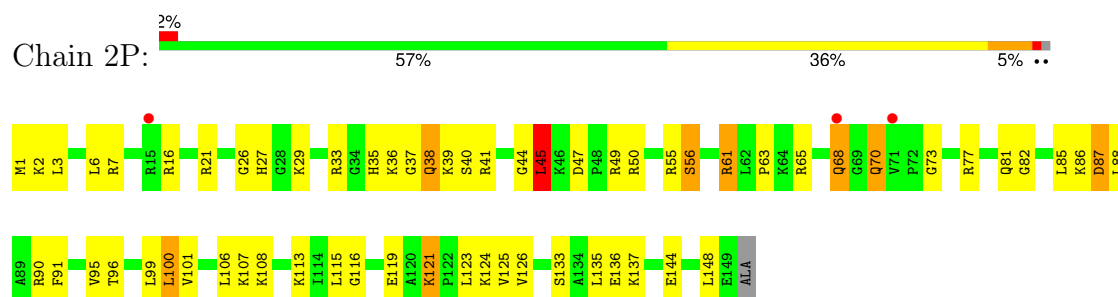
- Molecule 10: 50S ribosomal protein L14



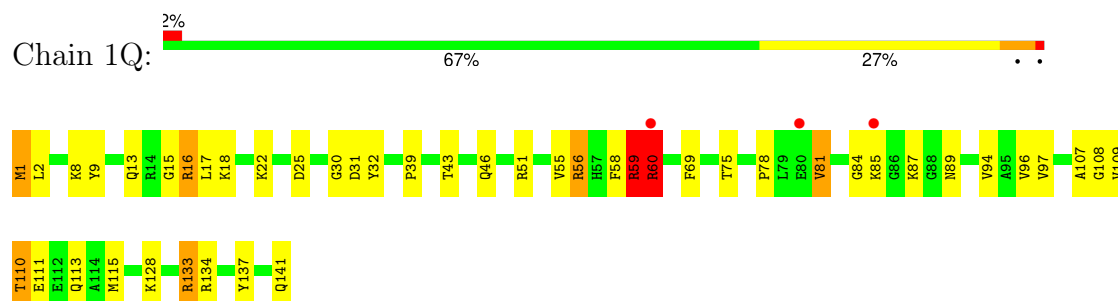
- Molecule 11: 50S ribosomal protein L15



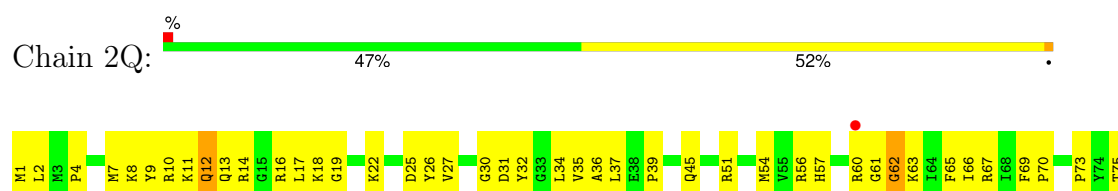
- Molecule 11: 50S ribosomal protein L15



- Molecule 12: 50S ribosomal protein L16

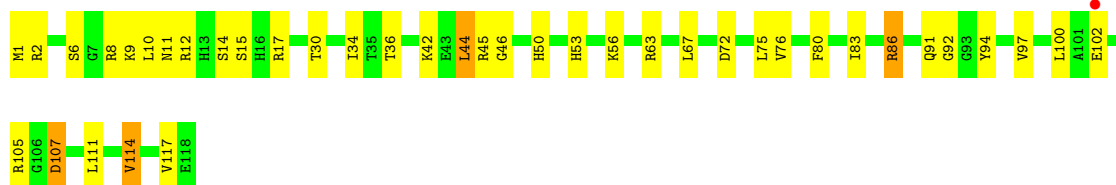


- Molecule 12: 50S ribosomal protein L16

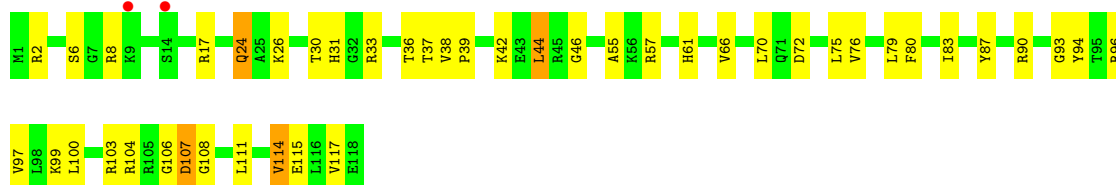




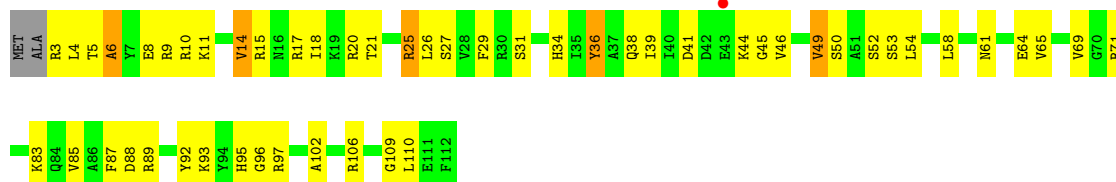
- Molecule 13: 50S ribosomal protein L17



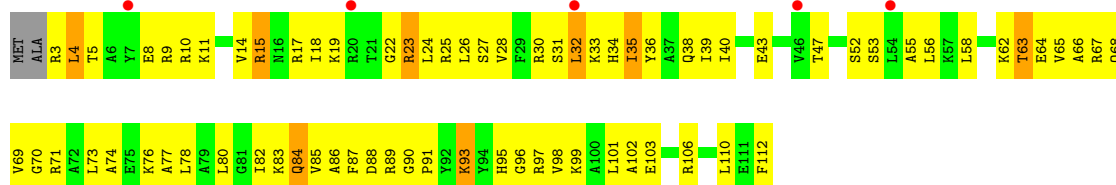
- Molecule 13: 50S ribosomal protein L17



- Molecule 14: 50S ribosomal protein L18

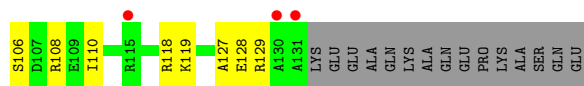
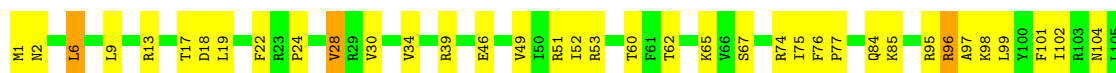


- Molecule 14: 50S ribosomal protein L18

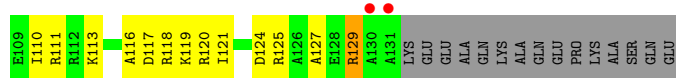
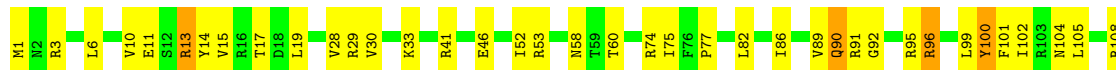


- Molecule 15: 50S ribosomal protein L19

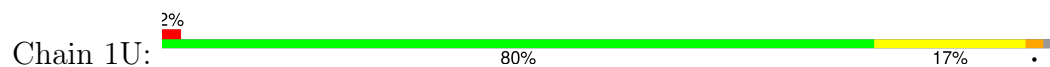




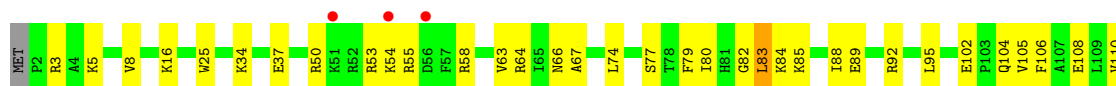
- Molecule 15: 50S ribosomal protein L19



- Molecule 16: 50S ribosomal protein L20



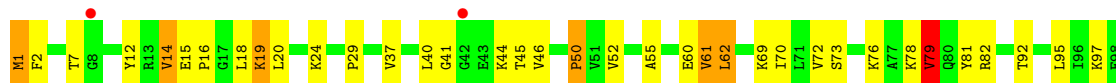
- Molecule 16: 50S ribosomal protein L20



- Molecule 17: 50S ribosomal protein L21



- Molecule 17: 50S ribosomal protein L21



I99
R100
G101

• Molecule 18: 50S ribosomal protein L22

Chain 1W:  61% 36% ..



K98
R99
I103
I106
L107
K110
H111
G112
LYS

• Molecule 18: 50S ribosomal protein L22

Chain 2W:  65% 27% 5% ..



T100
S101
H102
I103
L107
G112
LYS

• Molecule 19: 50S ribosomal protein L23

Chain 1X:  2% 64% 31% ..



• Molecule 19: 50S ribosomal protein L23

Chain 2X:  4% 58% 38% ..



E93
G94
L95
ILE

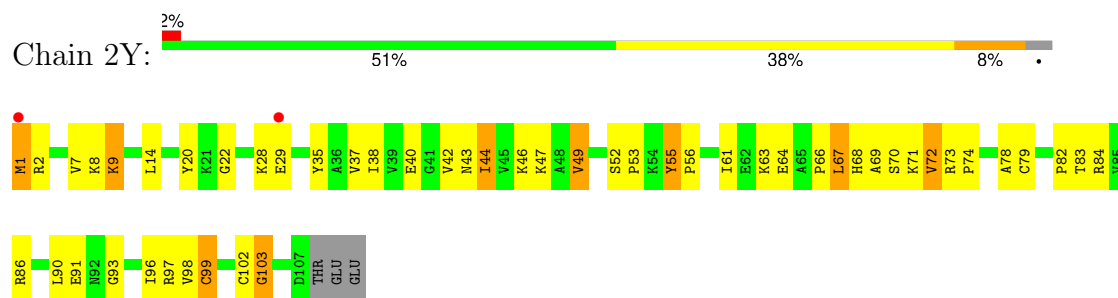
• Molecule 20: 50S ribosomal protein L24

Chain 1Y:  59% 32% 6% .

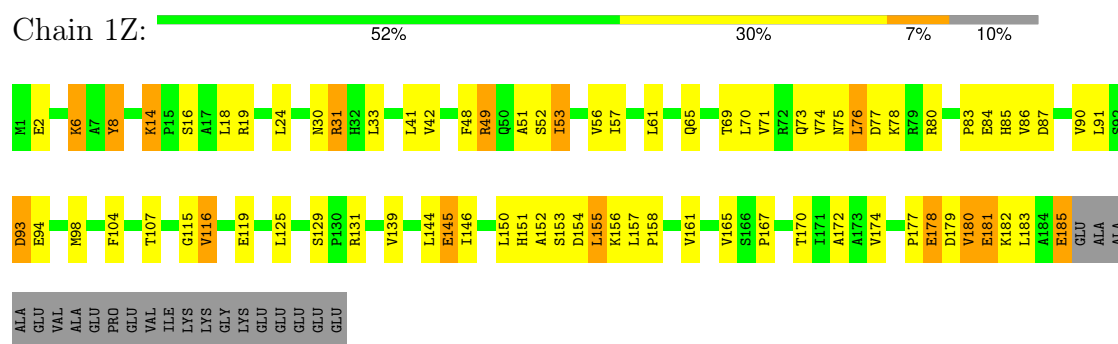


L106
D107
THR
GLU
GLU

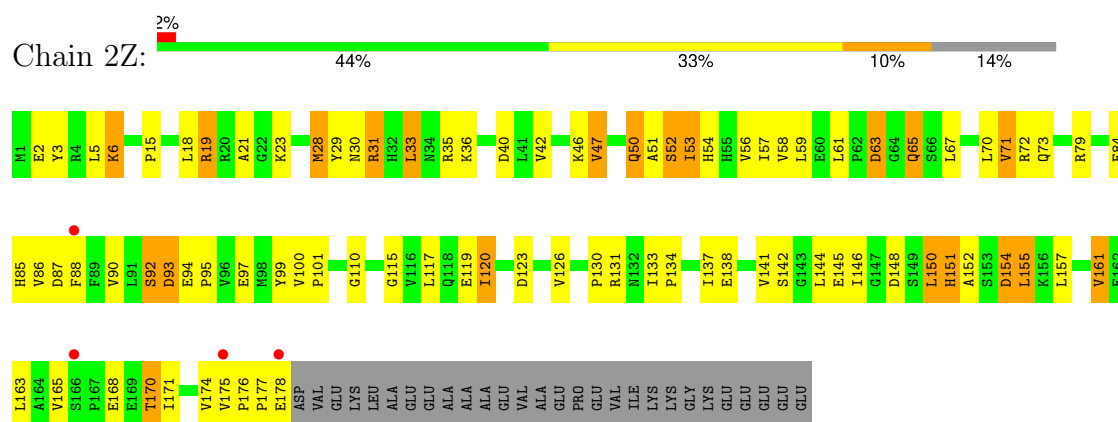
• Molecule 20: 50S ribosomal protein L24



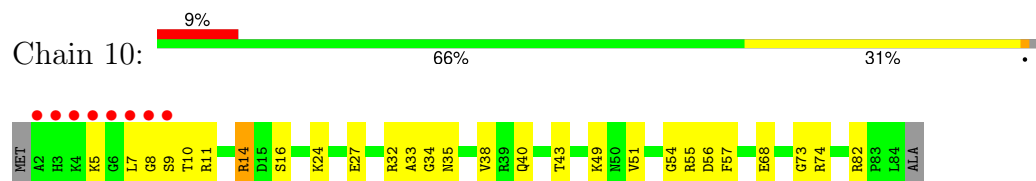
• Molecule 21: 50S ribosomal protein L25



• Molecule 21: 50S ribosomal protein L25



• Molecule 22: 50S ribosomal protein L27



• Molecule 22: 50S ribosomal protein L27





- Molecule 23: 50S ribosomal protein L28



- Molecule 23: 50S ribosomal protein L28



- Molecule 24: 50S ribosomal protein L29



- Molecule 24: 50S ribosomal protein L29

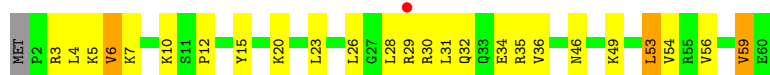


- Molecule 25: 50S ribosomal protein L30

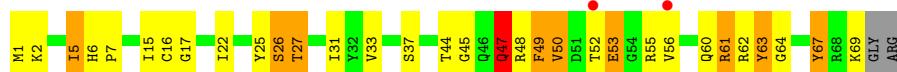


- Molecule 25: 50S ribosomal protein L30

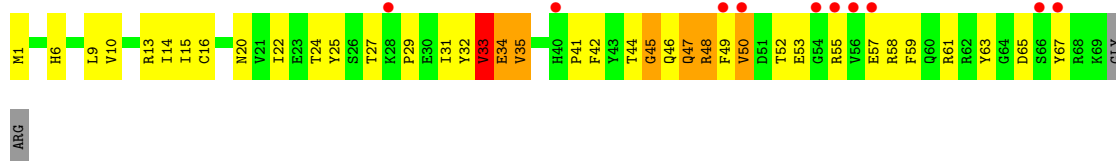
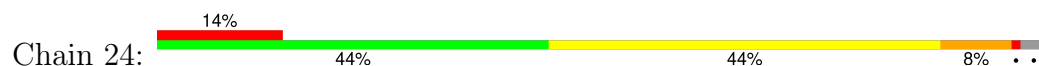




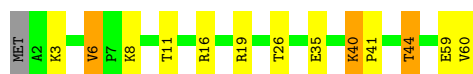
- Molecule 26: 50S ribosomal protein L31



- Molecule 26: 50S ribosomal protein L31



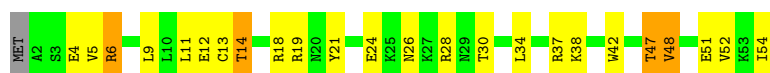
- Molecule 27: 50S ribosomal protein L32



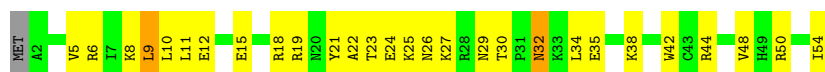
- Molecule 27: 50S ribosomal protein L32



- Molecule 28: 50S ribosomal protein L33



- Molecule 28: 50S ribosomal protein L33



- Molecule 29: 50S ribosomal protein L34



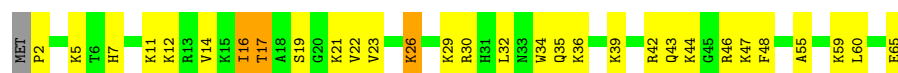
- Molecule 29: 50S ribosomal protein L34



- Molecule 30: 50S ribosomal protein L35



- Molecule 30: 50S ribosomal protein L35



- Molecule 31: 50S ribosomal protein L36

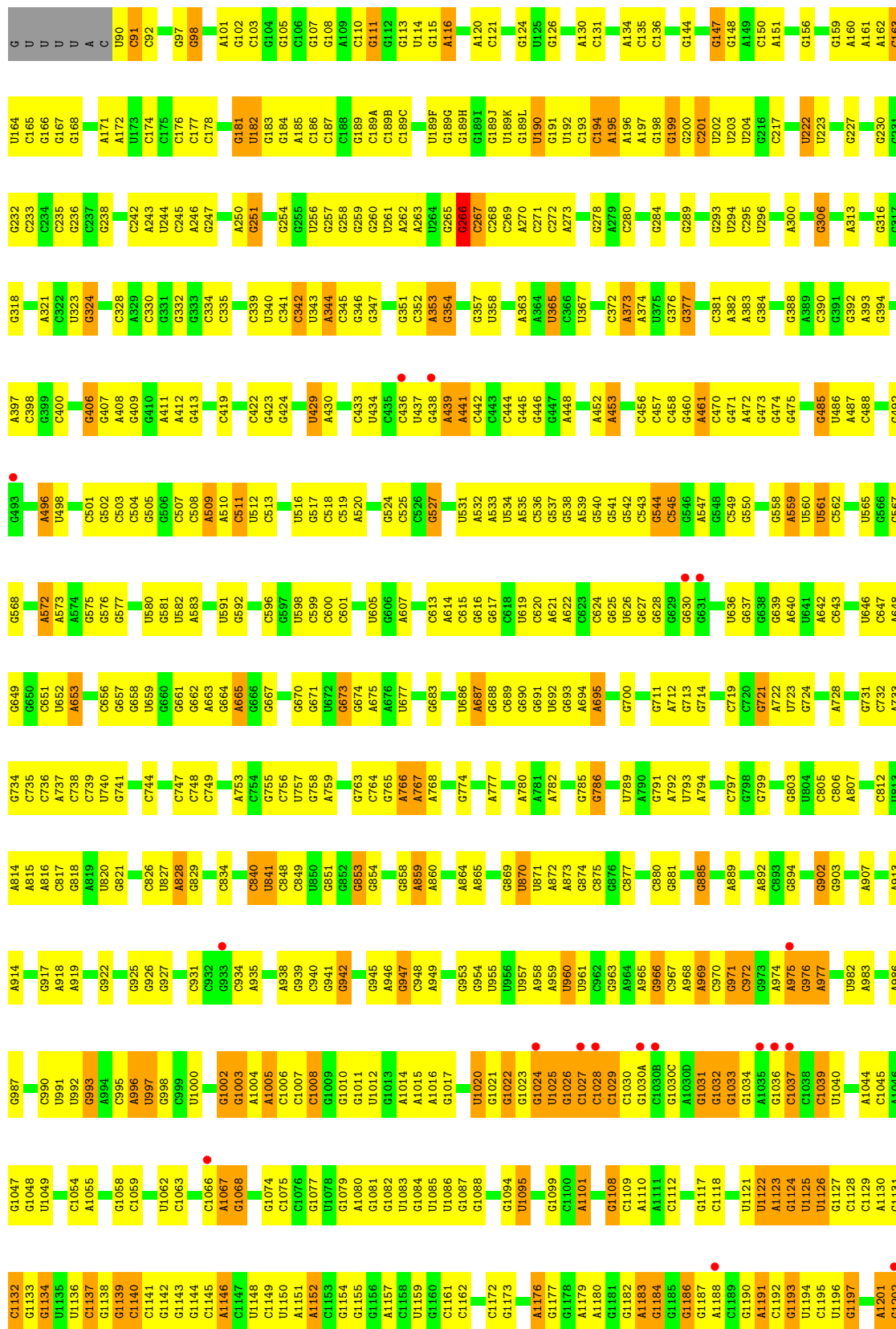


- Molecule 31: 50S ribosomal protein L36

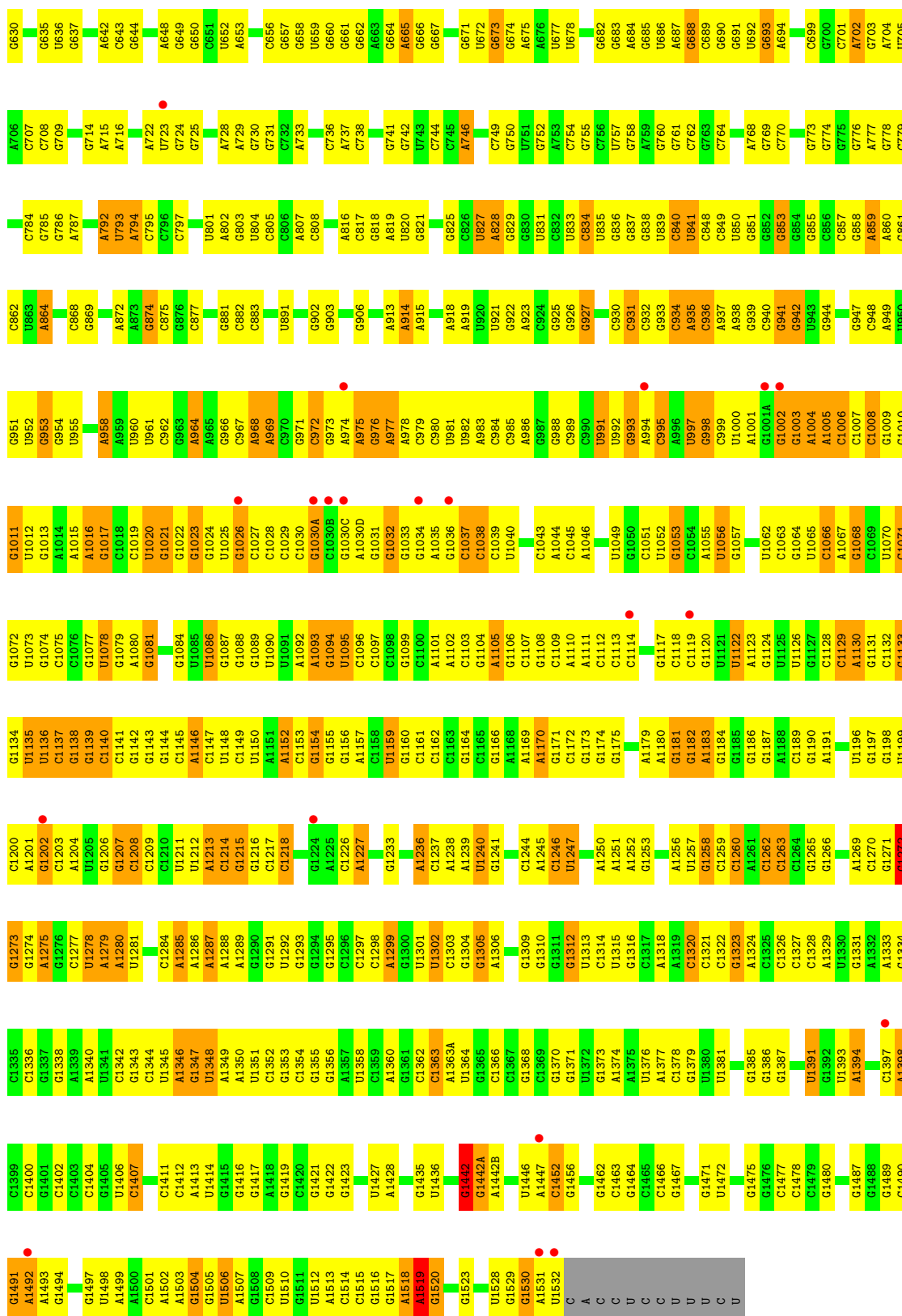


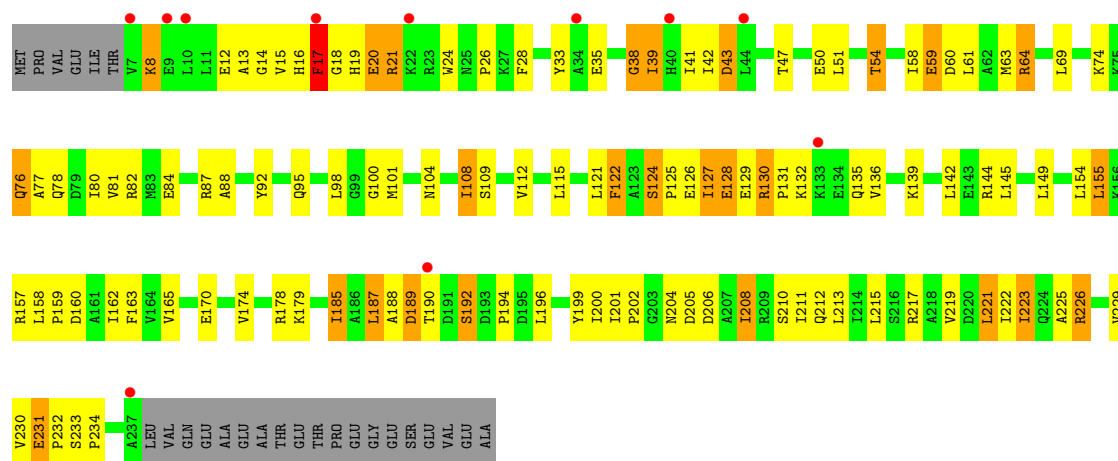
- Molecule 32: 16S Ribosomal RNA



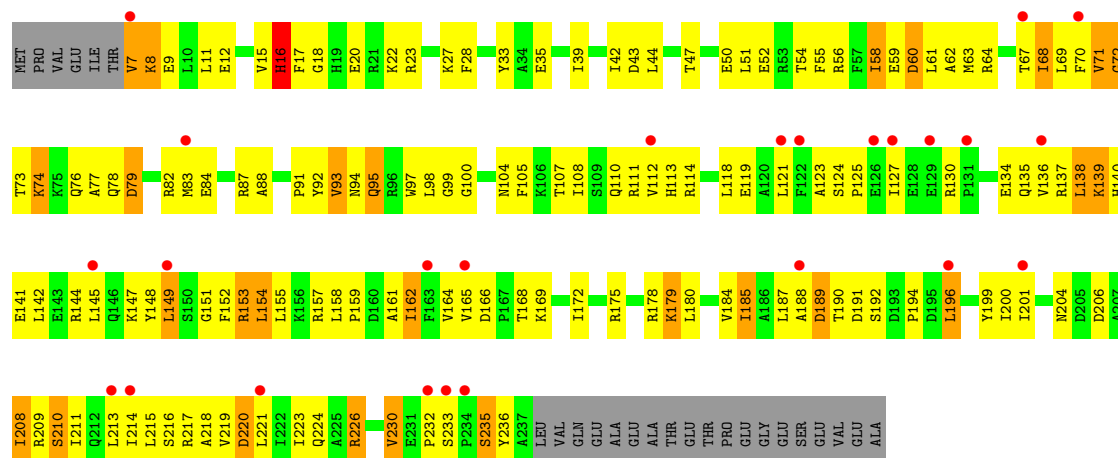




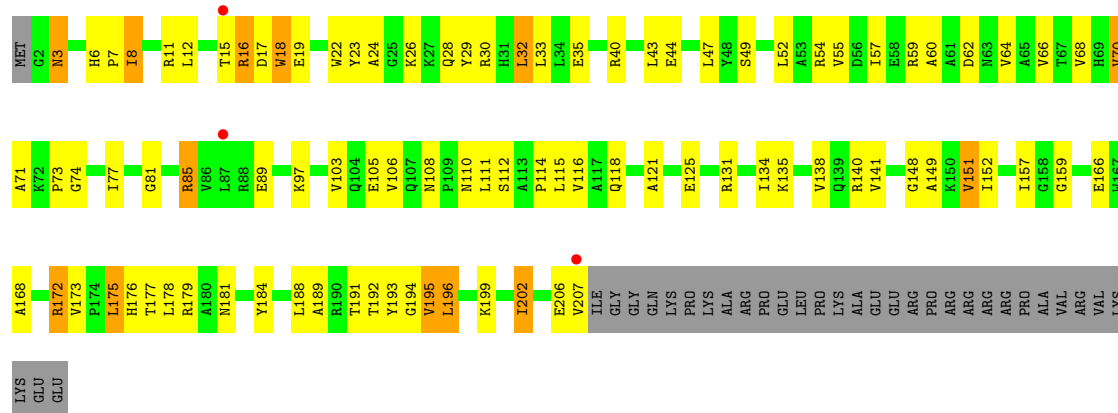




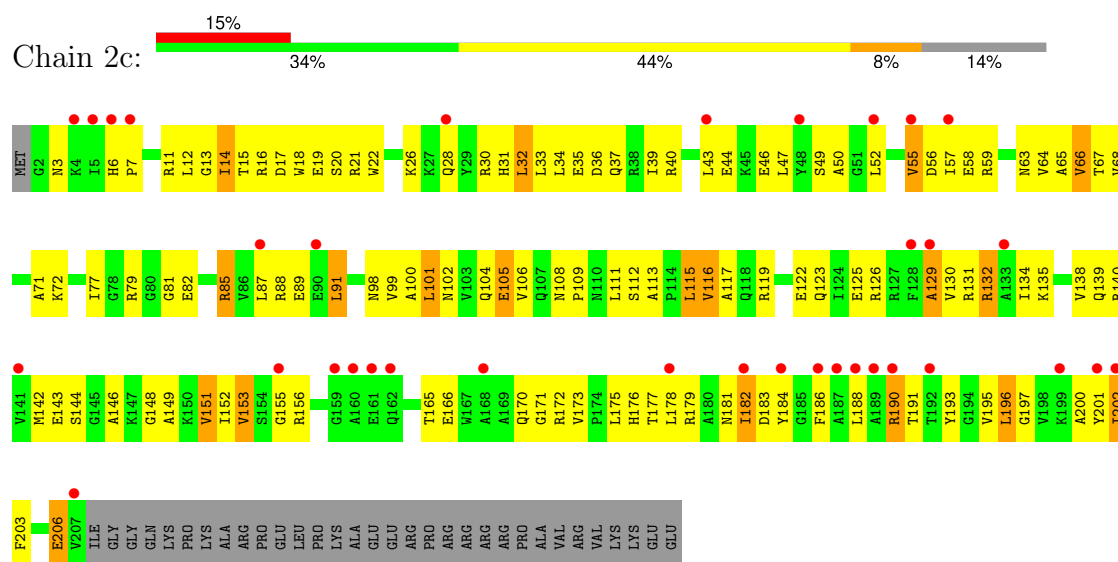
• Molecule 33: 30S ribosomal protein S2



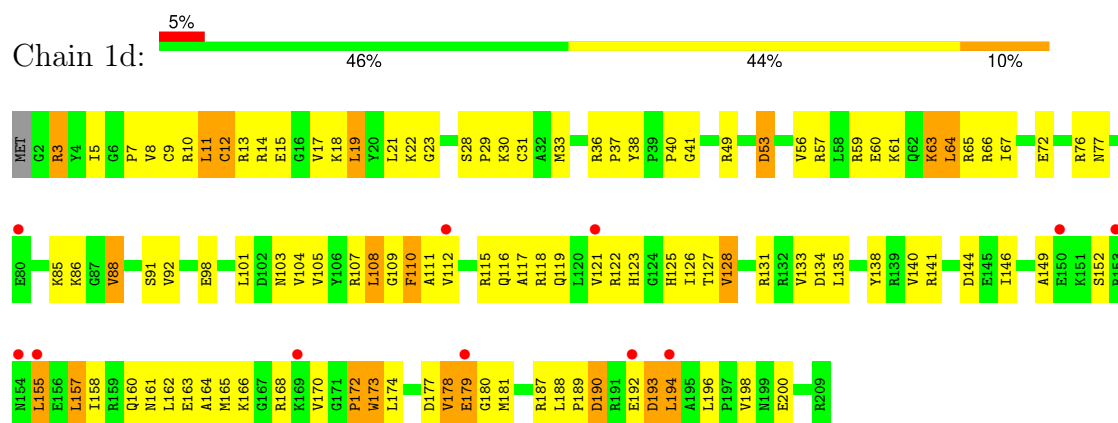
• Molecule 34: 30S ribosomal protein S3



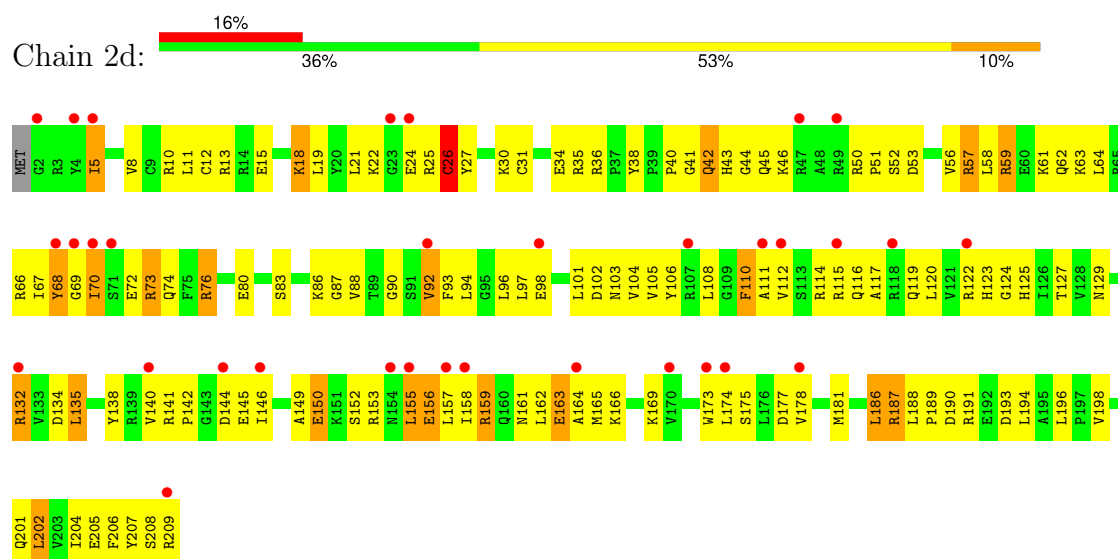
• Molecule 34: 30S ribosomal protein S3



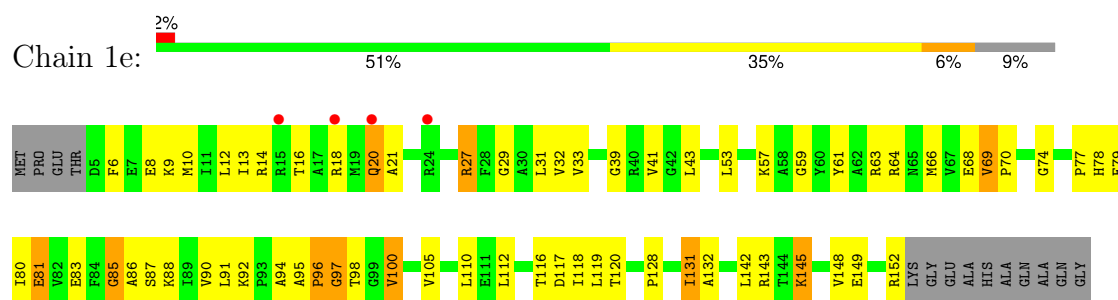
• Molecule 35: 30S ribosomal protein S4



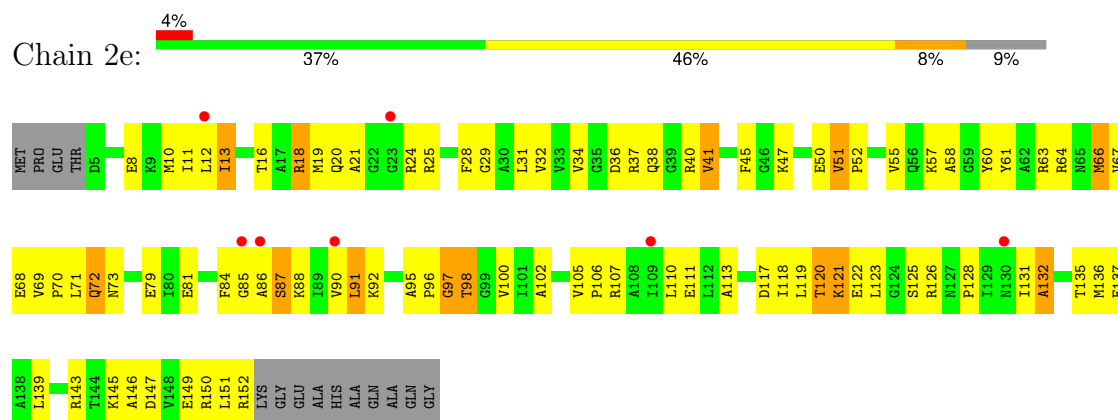
• Molecule 35: 30S ribosomal protein S4



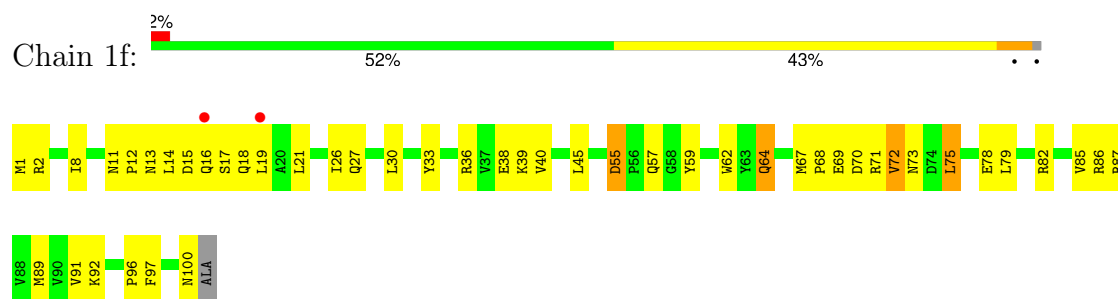
• Molecule 36: 30S ribosomal protein S5



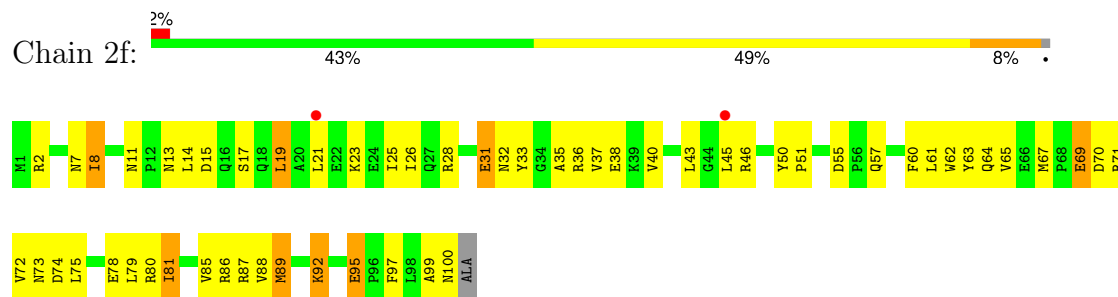
• Molecule 36: 30S ribosomal protein S5



• Molecule 37: 30S ribosomal protein S6

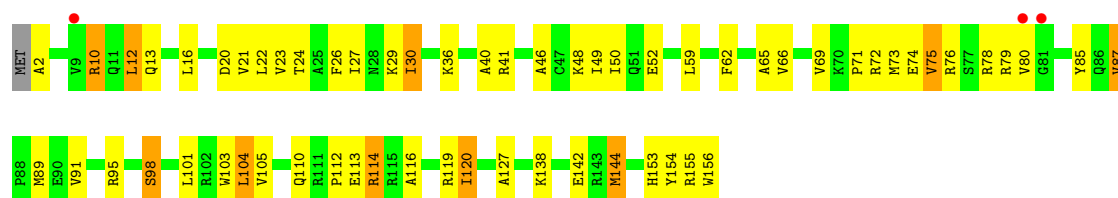


• Molecule 37: 30S ribosomal protein S6

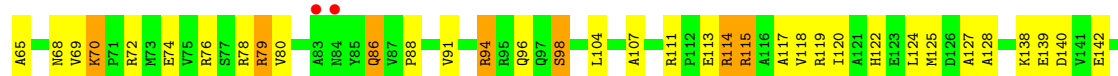
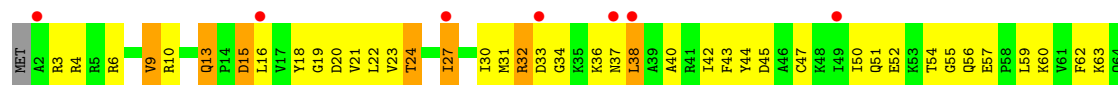


• Molecule 38: 30S ribosomal protein S7

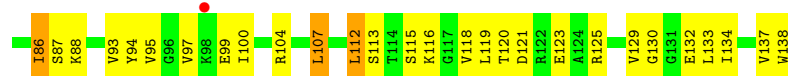




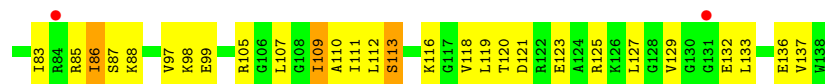
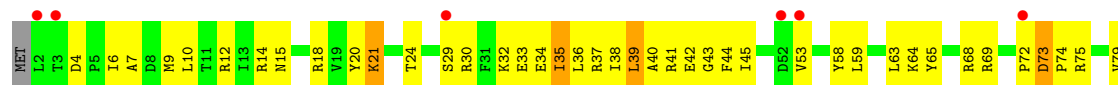
• Molecule 38: 30S ribosomal protein S7



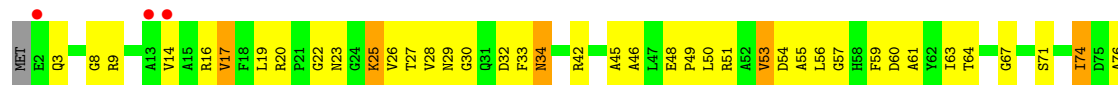
• Molecule 39: 30S ribosomal protein S8



• Molecule 39: 30S ribosomal protein S8

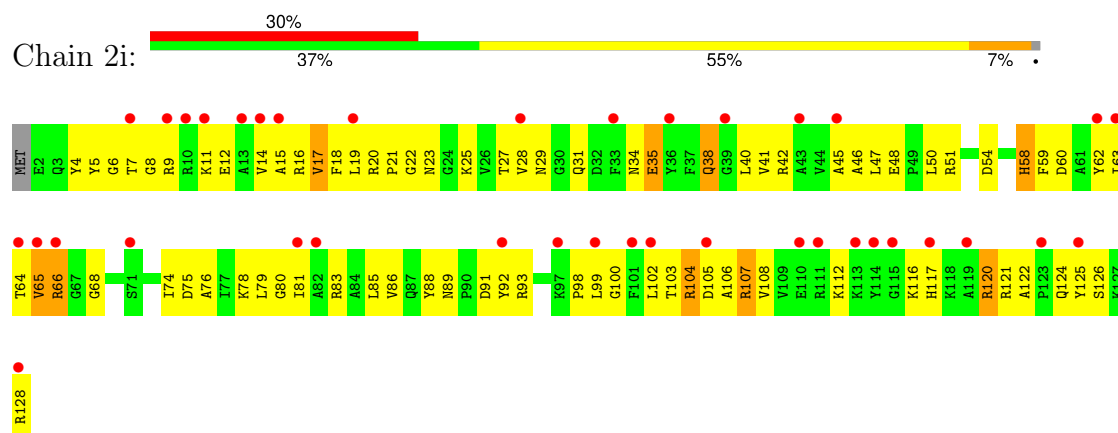


• Molecule 40: 30S ribosomal protein S9

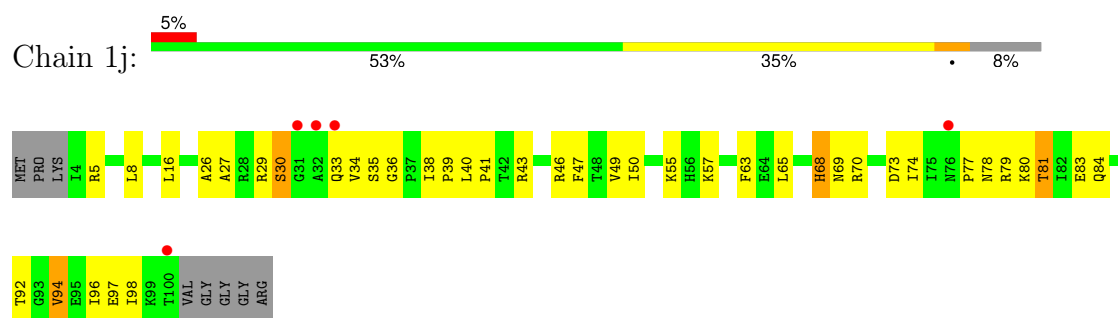




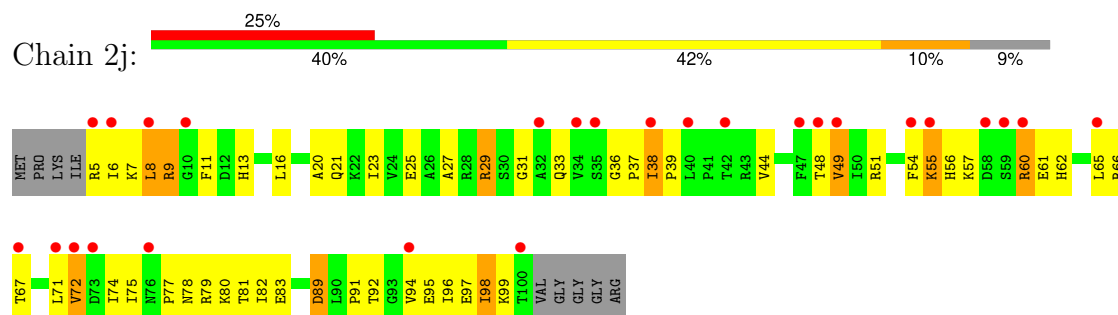
• Molecule 40: 30S ribosomal protein S9



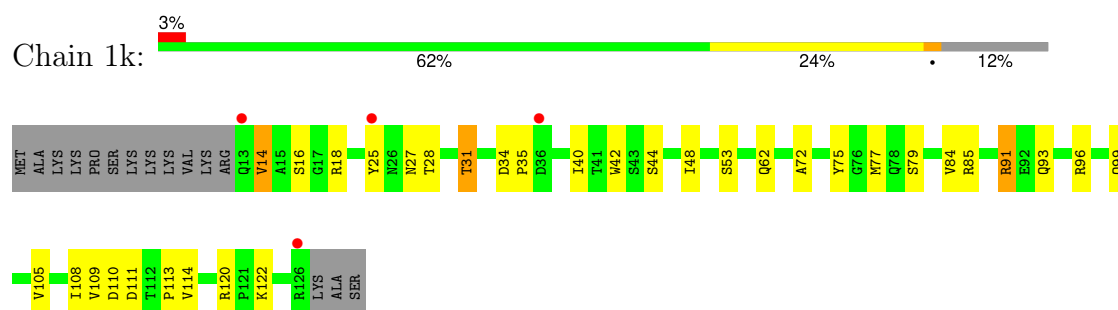
• Molecule 41: 30S ribosomal protein S10



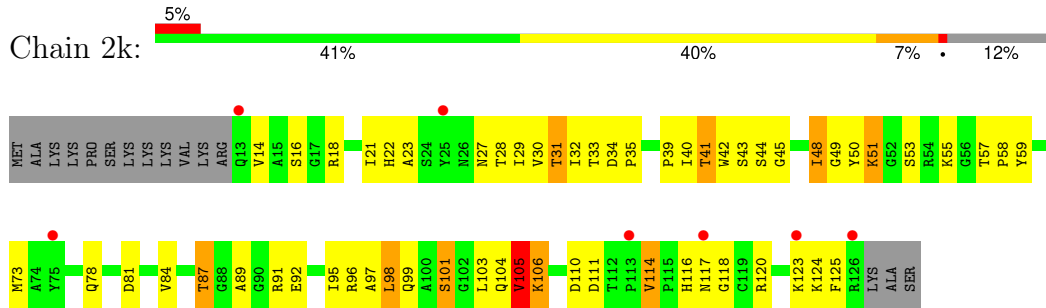
• Molecule 41: 30S ribosomal protein S10



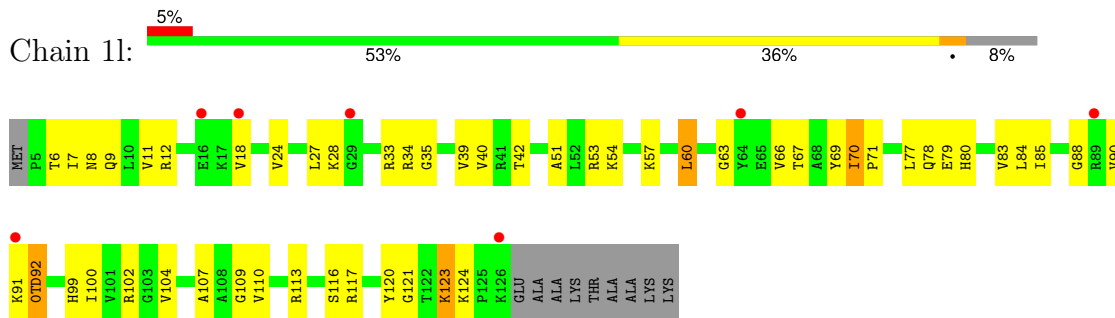
• Molecule 42: 30S ribosomal protein S11



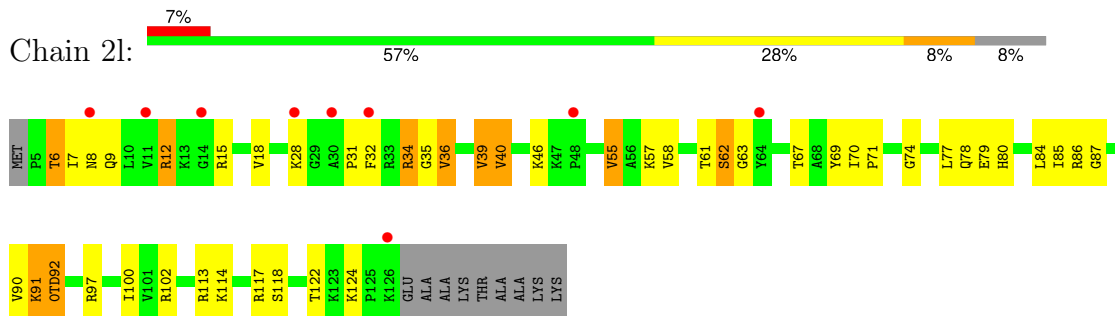
- Molecule 42: 30S ribosomal protein S11



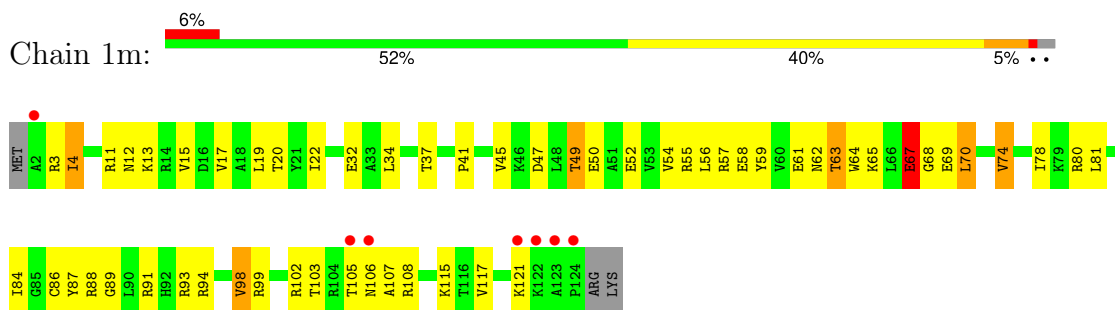
- Molecule 43: 30S ribosomal protein S12



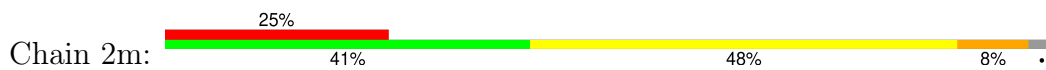
- Molecule 43: 30S ribosomal protein S12

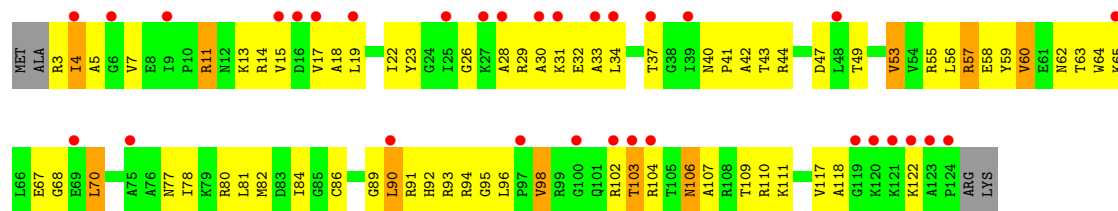


- Molecule 44: 30S ribosomal protein S13

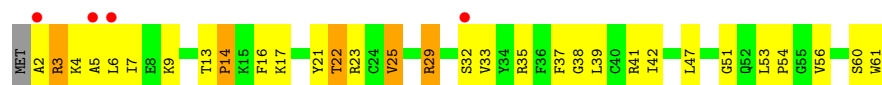


- Molecule 44: 30S ribosomal protein S13

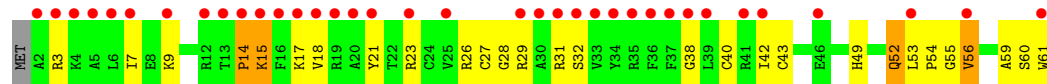




- Molecule 45: 30S ribosomal protein S14 type Z



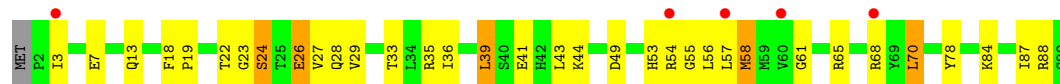
- Molecule 45: 30S ribosomal protein S14 type Z



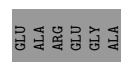
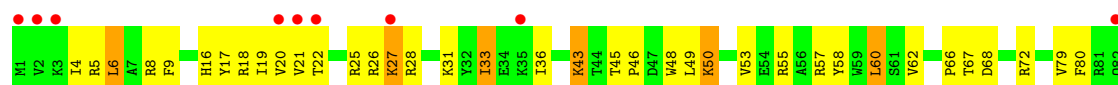
- Molecule 46: 30S ribosomal protein S15



- Molecule 46: 30S ribosomal protein S15

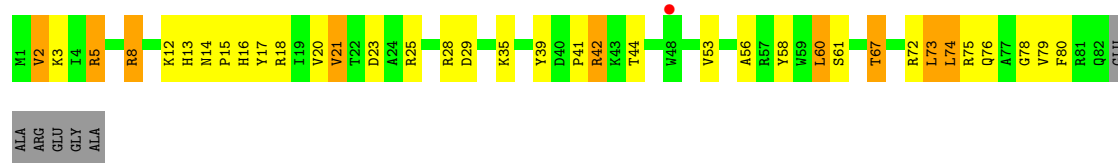


- Molecule 47: 30S ribosomal protein S16

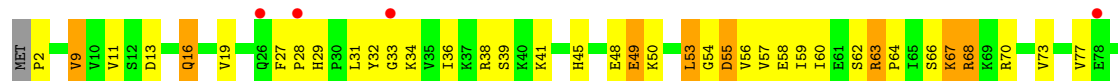


- Molecule 47: 30S ribosomal protein S16

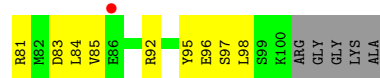




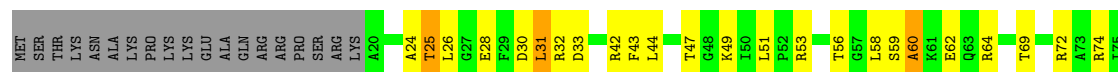
- Molecule 48: 30S ribosomal protein S17



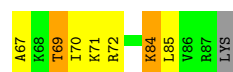
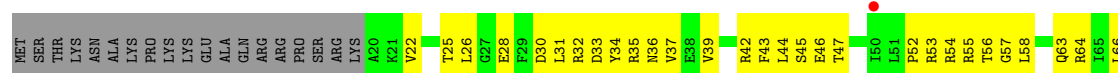
- Molecule 48: 30S ribosomal protein S17



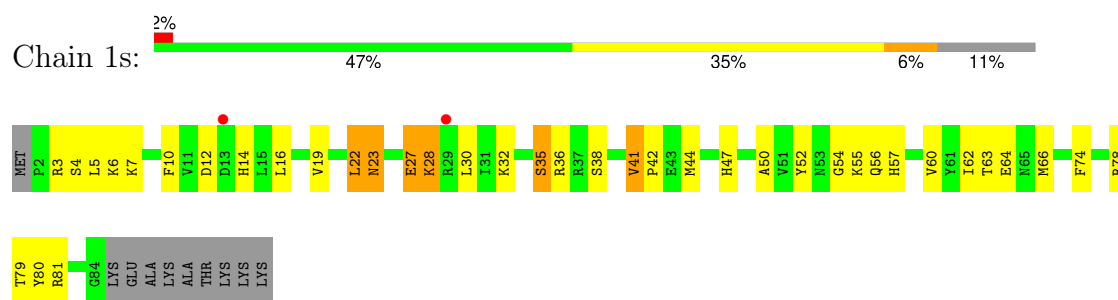
- Molecule 49: 30S ribosomal protein S18



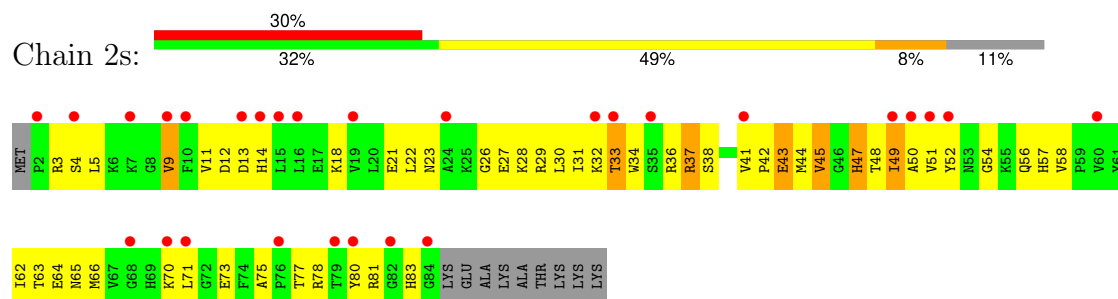
- Molecule 49: 30S ribosomal protein S18



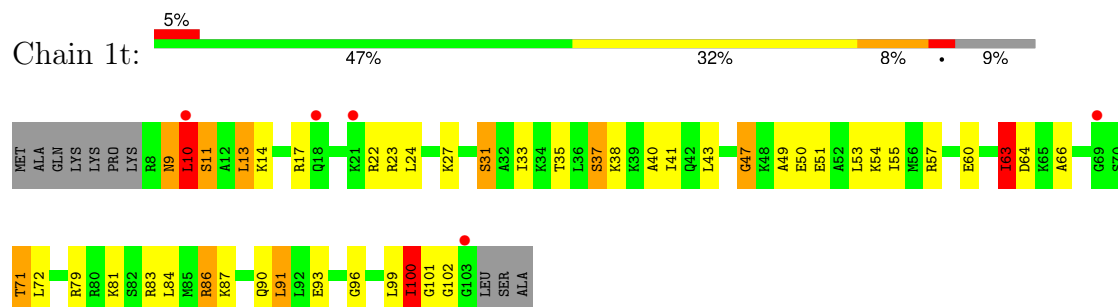
- Molecule 50: 30S ribosomal protein S19



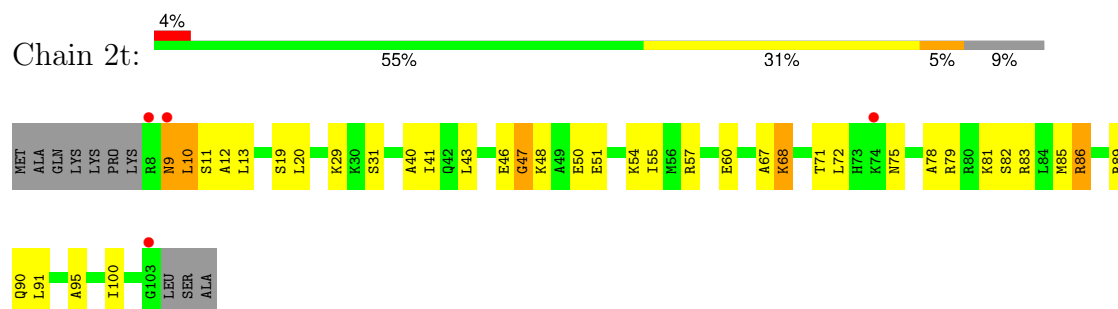
- Molecule 50: 30S ribosomal protein S19



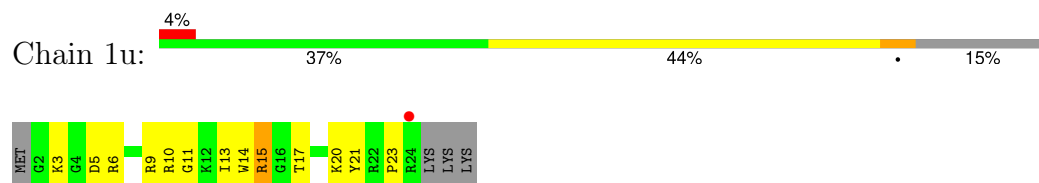
- Molecule 51: 30S ribosomal protein S20



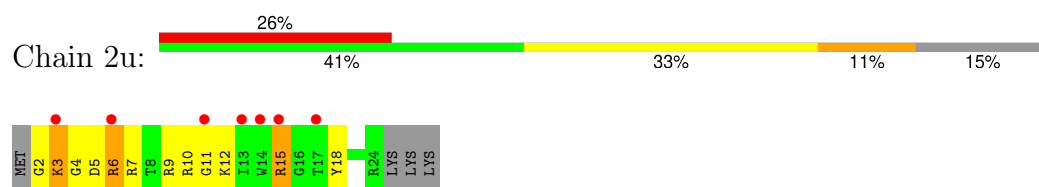
- Molecule 51: 30S ribosomal protein S20



- Molecule 52: 30S ribosomal protein Thx



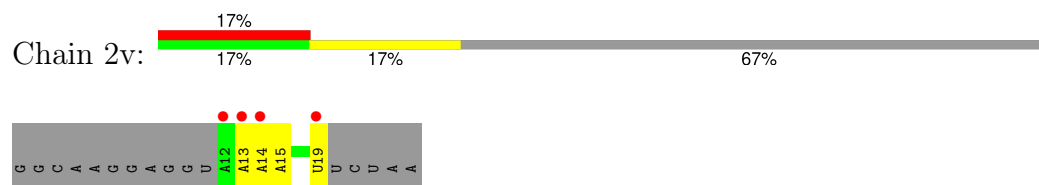
- Molecule 52: 30S ribosomal protein Thx



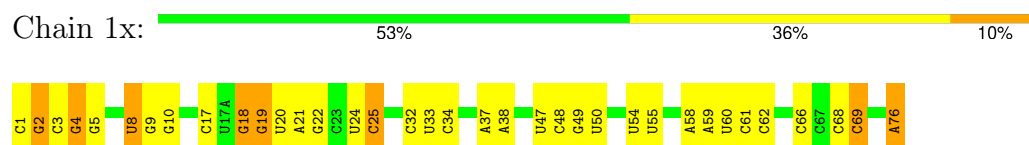
- Molecule 53: MET-PHE-mRNA



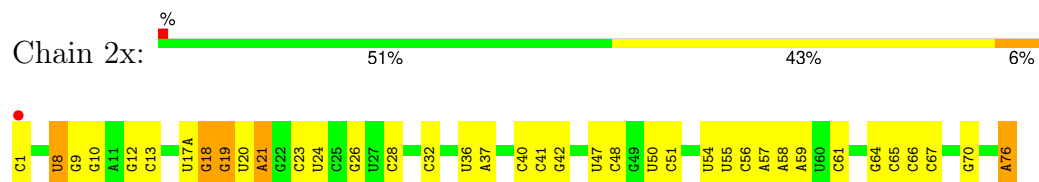
- Molecule 53: MET-PHE-mRNA



- Molecule 54: P-site Aminoacylated tRNA_{Met}



- Molecule 54: P-site Aminoacylated tRNA_{Met}



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.52Å 449.29Å 620.94Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	173.67 – 2.95 173.67 – 2.95	Depositor EDS
% Data completeness (in resolution range)	99.9 (173.67-2.95) 99.9 (173.67-2.95)	Depositor EDS
R_{merge}	0.25	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.28 (at 2.96Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.208 , 0.265 0.207 , 0.262	Depositor DCC
R_{free} test set	60824 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	67.6	Xtriage
Anisotropy	0.330	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 51.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	293578	wwPDB-VP
Average B, all atoms (Å ²)	65.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.47% 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: 4SU, ZN, MA6, M2G, PSU, MG, UR3, SF4, 0TD, 2MG, 2MA, 5MU, G7M, 5MC, SPS, 8AN, FME, 4OC, OMC, OMU, K, OMG

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	0.58	0/69011	0.71	4/107720 (0.0%)
1	2A	0.44	0/67295	0.63	4/105042 (0.0%)
2	1B	0.44	0/2882	0.67	0/4494
2	2B	0.44	0/2879	0.64	0/4487
3	1D	0.57	0/2186	0.78	3/2944 (0.1%)
3	2D	0.45	0/2186	0.67	0/2944
4	1E	0.52	0/1592	0.75	0/2149
4	2E	0.40	0/1592	0.64	0/2149
5	1F	0.53	0/1618	0.71	2/2191 (0.1%)
5	2F	0.41	0/1614	0.65	2/2186 (0.1%)
6	1G	0.43	0/1448	0.72	2/1957 (0.1%)
6	2G	0.47	0/1453	0.68	0/1963
7	1H	0.43	0/1356	0.62	0/1834
7	2H	0.43	0/1356	0.56	0/1834
8	1I	0.47	0/1112	0.74	0/1514
8	2I	0.40	0/1079	0.65	1/1475 (0.1%)
9	1N	0.54	0/1144	0.72	0/1543
9	2N	0.53	0/1144	0.71	4/1543 (0.3%)
10	1O	0.50	0/943	0.68	0/1269
10	2O	0.44	0/943	0.66	0/1269
11	1P	0.53	0/1152	0.77	0/1533
11	2P	0.44	0/1152	0.73	3/1533 (0.2%)
12	1Q	0.58	0/1143	0.80	3/1527 (0.2%)
12	2Q	0.47	0/1143	0.73	1/1527 (0.1%)
13	1R	0.52	0/982	0.74	0/1312
13	2R	0.42	0/982	0.61	0/1312
14	1S	0.43	0/883	0.67	0/1176
14	2S	0.47	0/880	0.71	0/1172
15	1T	0.47	0/1105	0.69	0/1477
15	2T	0.44	0/1097	0.62	0/1468
16	1U	0.59	0/977	0.69	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.42	0/977	0.59	0/1301
17	1V	0.50	0/782	0.70	0/1049
17	2V	0.43	0/782	0.63	0/1049
18	1W	0.58	0/897	0.70	0/1205
18	2W	0.44	0/897	0.61	0/1205
19	1X	0.51	0/764	0.73	2/1025 (0.2%)
19	2X	0.41	0/764	0.64	2/1025 (0.2%)
20	1Y	0.48	0/819	0.69	0/1095
20	2Y	0.42	0/819	0.66	0/1095
21	1Z	0.45	0/1493	0.66	0/2029
21	2Z	0.43	0/1422	0.62	0/1936
22	10	0.50	0/662	0.76	0/881
22	20	0.46	0/662	0.70	0/881
23	11	0.56	0/762	0.65	0/1014
23	21	0.46	0/762	0.72	3/1014 (0.3%)
24	12	0.50	0/590	0.71	0/781
24	22	0.42	0/590	0.59	0/781
25	13	0.55	0/474	0.68	0/635
25	23	0.39	0/469	0.65	0/630
26	14	0.47	0/565	0.76	0/761
26	24	0.52	0/545	0.68	0/737
27	15	0.55	0/469	0.71	0/635
27	25	0.47	0/469	0.64	0/635
28	16	0.51	0/460	0.71	0/613
28	26	0.42	0/456	0.64	0/608
29	17	0.59	0/426	0.77	0/561
29	27	0.50	0/426	0.73	0/561
30	18	0.59	0/525	0.69	0/691
30	28	0.44	0/525	0.68	0/691
31	19	0.56	0/310	0.79	1/407 (0.2%)
31	29	0.37	0/310	0.65	0/407
32	1a	0.41	0/35795	0.60	3/55864 (0.0%)
32	2a	0.40	1/35886 (0.0%)	0.57	4/56005 (0.0%)
33	1b	0.44	0/1881	0.68	1/2542 (0.0%)
33	2b	0.55	0/1860	0.74	0/2518
34	1c	0.43	0/1572	0.63	0/2126
34	2c	0.48	0/1566	0.64	1/2119 (0.0%)
35	1d	0.41	0/1685	0.67	0/2262
35	2d	0.45	0/1704	0.69	1/2284 (0.0%)
36	1e	0.42	0/1145	0.67	0/1543
36	2e	0.44	0/1149	0.66	0/1548
37	1f	0.41	0/823	0.65	0/1115
37	2f	0.39	0/829	0.64	1/1123 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.39	0/1250	0.59	0/1679
38	2g	0.44	0/1254	0.62	0/1683
39	1h	0.38	0/1108	0.60	0/1494
39	2h	0.41	0/1108	0.61	0/1494
40	1i	0.39	0/1002	0.66	0/1346
40	2i	0.47	0/997	0.63	0/1343
41	1j	0.44	0/722	0.67	0/982
41	2j	0.51	0/727	0.65	0/988
42	1k	0.40	0/844	0.65	0/1145
42	2k	0.36	0/848	0.55	0/1149
43	1l	0.42	0/937	0.63	0/1260
43	2l	0.42	0/937	0.64	0/1260
44	1m	0.42	0/969	0.63	0/1302
44	2m	0.49	0/961	0.65	0/1291
45	1n	0.46	0/501	0.67	0/664
45	2n	0.44	0/501	0.65	0/664
46	1o	0.41	0/739	0.62	0/985
46	2o	0.38	0/739	0.61	0/985
47	1p	0.38	0/697	0.66	0/939
47	2p	0.40	0/693	0.63	0/935
48	1q	0.44	0/836	0.66	0/1117
48	2q	0.41	0/836	0.60	0/1117
49	1r	0.41	0/560	0.62	0/746
49	2r	0.40	0/560	0.59	0/746
50	1s	0.42	0/667	0.69	0/900
50	2s	0.49	0/661	0.71	0/893
51	1t	0.41	0/730	0.69	0/965
51	2t	0.39	0/729	0.64	0/965
52	1u	0.43	0/203	0.71	0/266
52	2u	0.38	0/203	0.61	0/266
53	1v	0.56	0/122	0.63	0/188
53	2v	0.62	0/194	0.69	0/300
54	1x	0.45	0/1723	0.64	0/2684
54	2x	0.45	1/1723 (0.1%)	0.60	0/2684
All	All	0.47	2/310378 (0.0%)	0.65	48/464257 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
9	1N	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
11	2P	0	1
12	1Q	0	2
14	1S	0	1
25	23	0	1
26	14	0	1
29	27	0	1
33	1b	0	3
All	All	0	11

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	1498	UR3	O3'-P	5.77	1.62	1.56
54	2x	8	4SU	O3'-P	5.18	1.61	1.56

The worst 5 of 48 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	1992	G	C2'-C3'-O3'	8.97	122.96	109.50
12	1Q	59	ARG	N-CA-C	-8.34	103.62	113.38
23	21	3	LYS	N-CA-C	8.18	115.49	108.78
1	1A	1992	G	C2'-C3'-O3'	7.56	120.83	109.50
33	1b	38	GLY	N-CA-C	-7.29	105.67	115.36

There are no chirality outliers.

5 of 11 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
26	14	67	TYR	Peptide
9	1N	8	GLN	Peptide
12	1Q	15	GLY	Peptide
12	1Q	59	ARG	Peptide
14	1S	45	GLY	Peptide

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	31194	903	0
1	2A	60322	0	30424	994	0
2	1B	2577	0	1305	46	0
2	2B	2575	0	1303	90	0
3	1D	2136	0	2218	57	0
3	2D	2136	0	2218	60	0
4	1E	1559	0	1618	47	0
4	2E	1559	0	1618	41	0
5	1F	1583	0	1625	53	0
5	2F	1579	0	1619	66	0
6	1G	1423	0	1436	60	0
6	2G	1428	0	1438	84	0
7	1H	1330	0	1407	33	0
7	2H	1330	0	1407	57	0
8	1I	1097	0	1140	52	0
8	2I	1064	0	1082	45	0
9	1N	1117	0	1184	21	0
9	2N	1117	0	1184	35	0
10	1O	933	0	996	23	0
10	2O	933	0	996	35	0
11	1P	1135	0	1212	46	0
11	2P	1135	0	1212	45	0
12	1Q	1122	0	1179	63	0
12	2Q	1122	0	1179	60	0
13	1R	968	0	1033	23	0
13	2R	968	0	1033	32	0
14	1S	873	0	927	35	0
14	2S	870	0	923	66	0
15	1T	1091	0	1151	29	0
15	2T	1083	0	1136	43	0
16	1U	959	0	1019	14	0
16	2U	959	0	1019	26	0
17	1V	771	0	830	22	0
17	2V	771	0	829	31	0
18	1W	886	0	940	25	0
18	2W	886	0	940	24	0
19	1X	750	0	814	26	0
19	2X	750	0	814	30	0
20	1Y	806	0	881	23	0
20	2Y	806	0	881	37	0
21	1Z	1461	0	1472	65	0
21	2Z	1390	0	1392	75	0
22	10	653	0	674	21	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	20	653	0	674	19	0
23	11	755	0	826	26	0
23	21	755	0	826	28	0
24	12	588	0	643	21	0
24	22	588	0	643	28	0
25	13	469	0	518	12	0
25	23	464	0	514	13	0
26	14	552	0	533	27	0
26	24	532	0	503	31	0
27	15	455	0	465	9	0
27	25	455	0	465	16	0
28	16	453	0	473	14	0
28	26	449	0	469	16	0
29	17	418	0	467	11	0
29	27	418	0	467	12	0
30	18	517	0	582	17	0
30	28	517	0	582	27	0
31	19	307	0	335	12	0
31	29	307	0	335	10	0
32	1a	32246	0	16294	636	0
32	2a	32327	0	16337	772	0
33	1b	1846	0	1867	86	0
33	2b	1825	0	1828	100	0
34	1c	1548	0	1535	60	0
34	2c	1542	0	1517	88	0
35	1d	1655	0	1672	84	0
35	2d	1674	0	1714	113	0
36	1e	1129	0	1185	43	0
36	2e	1133	0	1191	63	0
37	1f	810	0	804	36	0
37	2f	816	0	808	39	0
38	1g	1231	0	1238	46	0
38	2g	1235	0	1249	58	0
39	1h	1088	0	1126	46	0
39	2h	1088	0	1126	51	0
40	1i	983	0	986	51	0
40	2i	978	0	966	66	0
41	1j	709	0	650	31	0
41	2j	714	0	672	38	0
42	1k	829	0	825	21	0
42	2k	833	0	836	41	0
43	1l	932	0	982	35	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	2l	932	0	981	35	0
44	1m	958	0	1002	35	0
44	2m	950	0	988	56	0
45	1n	492	0	529	27	0
45	2n	492	0	529	27	0
46	1o	728	0	760	27	0
46	2o	728	0	760	20	0
47	1p	681	0	697	26	0
47	2p	677	0	686	29	0
48	1q	823	0	891	31	0
48	2q	823	0	891	33	0
49	1r	555	0	618	25	0
49	2r	555	0	618	27	0
50	1s	652	0	662	32	0
50	2s	646	0	644	45	0
51	1t	728	0	798	37	0
51	2t	727	0	796	25	0
52	1u	199	0	208	10	0
52	2u	199	0	208	12	0
53	1v	109	0	55	0	0
53	2v	173	0	87	0	0
54	1x	1646	0	838	23	0
54	2x	1646	0	839	29	0
55	10	8	0	0	0	0
55	11	5	0	0	0	0
55	12	2	0	0	0	0
55	13	7	0	0	0	0
55	14	1	0	0	0	0
55	15	8	0	0	0	0
55	16	1	0	0	0	0
55	17	4	0	0	0	0
55	18	6	0	0	0	0
55	19	1	0	0	0	0
55	1A	1103	0	0	0	0
55	1B	36	0	0	0	0
55	1D	11	0	0	0	0
55	1E	14	0	0	0	0
55	1F	11	0	0	0	0
55	1G	5	0	0	0	0
55	1H	1	0	0	0	0
55	1I	1	0	0	0	0
55	1N	6	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	1O	5	0	0	0	0
55	1P	8	0	0	0	0
55	1Q	7	0	0	0	0
55	1R	4	0	0	0	0
55	1S	3	0	0	0	0
55	1T	3	0	0	0	0
55	1U	9	0	0	0	0
55	1V	8	0	0	0	0
55	1W	7	0	0	0	0
55	1X	6	0	0	0	0
55	1Y	2	0	0	0	0
55	1Z	4	0	0	0	0
55	1a	213	0	0	0	0
55	1b	1	0	0	0	0
55	1d	1	0	0	0	0
55	1e	2	0	0	0	0
55	1f	1	0	0	0	0
55	1l	2	0	0	0	0
55	1m	1	0	0	0	0
55	1n	1	0	0	0	0
55	1p	1	0	0	0	0
55	1r	1	0	0	0	0
55	1t	1	0	0	0	0
55	1x	11	0	0	0	0
55	20	3	0	0	0	0
55	21	1	0	0	0	0
55	23	2	0	0	0	0
55	25	4	0	0	0	0
55	27	2	0	0	0	0
55	28	3	0	0	0	0
55	2A	849	0	0	0	0
55	2B	20	0	0	0	0
55	2D	6	0	0	0	0
55	2E	8	0	0	0	0
55	2F	7	0	0	0	0
55	2G	1	0	0	0	0
55	2O	2	0	0	0	0
55	2P	2	0	0	0	0
55	2Q	2	0	0	0	0
55	2R	4	0	0	0	0
55	2T	4	0	0	0	0
55	2U	2	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	2V	1	0	0	0	0
55	2W	4	0	0	0	0
55	2X	1	0	0	0	0
55	2Y	1	0	0	0	0
55	2Z	1	0	0	0	0
55	2a	226	0	0	0	0
55	2d	3	0	0	0	0
55	2e	1	0	0	0	0
55	2f	2	0	0	0	0
55	2j	1	0	0	0	0
55	2l	4	0	0	0	0
55	2q	3	0	0	0	0
55	2r	1	0	0	0	0
55	2t	1	0	0	0	0
55	2u	1	0	0	0	0
55	2v	2	0	0	0	0
55	2x	6	0	0	0	0
56	1A	1	0	0	0	0
56	2A	1	0	0	0	0
57	1A	23	0	19	4	0
57	2A	23	0	19	2	0
58	14	1	0	0	0	0
58	15	1	0	0	0	0
58	16	1	0	0	0	0
58	19	1	0	0	0	0
58	1Y	1	0	0	0	0
58	1n	1	0	0	0	0
58	24	1	0	0	0	0
58	25	1	0	0	0	0
58	26	1	0	0	0	0
58	29	1	0	0	0	0
58	2Y	1	0	0	0	0
58	2n	1	0	0	0	0
59	1d	8	0	0	0	0
59	2d	8	0	0	2	0
60	1x	10	0	10	0	0
60	2x	10	0	10	0	0
61	10	9	0	0	2	0
61	11	7	0	0	0	0
61	12	4	0	0	1	0
61	13	5	0	0	0	0
61	15	7	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	16	1	0	0	0	0
61	17	11	0	0	1	0
61	18	8	0	0	0	0
61	1A	1951	0	0	139	0
61	1B	60	0	0	2	0
61	1D	29	0	0	4	0
61	1E	26	0	0	2	0
61	1F	18	0	0	1	0
61	1G	4	0	0	0	0
61	1H	2	0	0	0	0
61	1N	7	0	0	0	0
61	1O	6	0	0	0	0
61	1P	23	0	0	2	0
61	1Q	5	0	0	0	0
61	1R	13	0	0	4	0
61	1S	6	0	0	0	0
61	1T	8	0	0	1	0
61	1U	14	0	0	1	0
61	1V	7	0	0	1	0
61	1W	8	0	0	1	0
61	1X	4	0	0	0	0
61	1Y	3	0	0	1	0
61	1Z	1	0	0	0	0
61	1a	303	0	0	29	0
61	1b	1	0	0	0	0
61	1d	1	0	0	0	0
61	1e	1	0	0	0	0
61	1f	1	0	0	0	0
61	1i	1	0	0	0	0
61	1l	6	0	0	0	0
61	1m	1	0	0	0	0
61	1q	2	0	0	0	0
61	1v	4	0	0	0	0
61	1x	5	0	0	0	0
61	20	5	0	0	1	0
61	21	7	0	0	0	0
61	23	2	0	0	0	0
61	27	2	0	0	0	0
61	28	3	0	0	0	0
61	29	1	0	0	0	0
61	2A	1050	0	0	109	0
61	2B	20	0	0	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	2D	19	0	0	4	0
61	2E	17	0	0	3	0
61	2F	15	0	0	0	0
61	2N	1	0	0	0	0
61	2O	2	0	0	0	0
61	2P	11	0	0	1	0
61	2Q	1	0	0	0	0
61	2R	2	0	0	0	0
61	2T	5	0	0	0	0
61	2U	3	0	0	0	0
61	2W	2	0	0	0	0
61	2X	4	0	0	0	0
61	2a	198	0	0	15	0
61	2c	1	0	0	0	0
61	2e	2	0	0	0	0
61	2g	1	0	0	0	0
61	2j	2	0	0	0	0
61	2k	1	0	0	0	0
61	2l	5	0	0	0	0
61	2m	1	0	0	0	0
61	2r	1	0	0	0	0
61	2t	1	0	0	0	0
61	2v	1	0	0	0	0
61	2x	2	0	0	0	0
All	All	293578	0	193773	6324	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 6324 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)
32:2a:998:G:H1	32:2a:1043:C:H42	1.12	0.97
1:1A:1603:A:OP1	61:1A:4204:HOH:O	1.81	0.96
1:2A:1359:A:N1	1:2A:1372:U:N3	2.13	0.96
41:1j:50:ILE:HD11	41:1j:57:LYS:HD2	1.48	0.95
32:2a:1002:G:H1	32:2a:1038:C:H42	1.12	0.95

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1D	273/276 (99%)	245 (90%)	27 (10%)	1 (0%)	30	53
3	2D	273/276 (99%)	234 (86%)	38 (14%)	1 (0%)	30	53
4	1E	202/206 (98%)	189 (94%)	12 (6%)	1 (0%)	24	49
4	2E	202/206 (98%)	181 (90%)	18 (9%)	3 (2%)	8	23
5	1F	200/210 (95%)	190 (95%)	8 (4%)	2 (1%)	12	32
5	2F	200/210 (95%)	180 (90%)	18 (9%)	2 (1%)	12	32
6	1G	179/182 (98%)	157 (88%)	20 (11%)	2 (1%)	11	29
6	2G	179/182 (98%)	147 (82%)	22 (12%)	10 (6%)	1	2
7	1H	172/180 (96%)	163 (95%)	7 (4%)	2 (1%)	10	28
7	2H	172/180 (96%)	141 (82%)	24 (14%)	7 (4%)	2	5
8	1I	144/148 (97%)	106 (74%)	28 (19%)	10 (7%)	1	1
8	2I	144/148 (97%)	116 (81%)	23 (16%)	5 (4%)	3	7
9	1N	138/140 (99%)	127 (92%)	7 (5%)	4 (3%)	3	10
9	2N	138/140 (99%)	128 (93%)	9 (6%)	1 (1%)	18	40
10	1O	120/122 (98%)	111 (92%)	8 (7%)	1 (1%)	16	37
10	2O	120/122 (98%)	109 (91%)	10 (8%)	1 (1%)	16	37
11	1P	147/150 (98%)	128 (87%)	14 (10%)	5 (3%)	3	7
11	2P	147/150 (98%)	130 (88%)	13 (9%)	4 (3%)	4	11
12	1Q	139/141 (99%)	124 (89%)	14 (10%)	1 (1%)	18	40
12	2Q	139/141 (99%)	120 (86%)	16 (12%)	3 (2%)	5	15
13	1R	116/118 (98%)	104 (90%)	10 (9%)	2 (2%)	7	20
13	2R	116/118 (98%)	101 (87%)	14 (12%)	1 (1%)	14	34
14	1S	108/112 (96%)	97 (90%)	9 (8%)	2 (2%)	6	17
14	2S	108/112 (96%)	87 (81%)	16 (15%)	5 (5%)	2	4
15	1T	129/146 (88%)	114 (88%)	15 (12%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	2T	129/146 (88%)	116 (90%)	11 (8%)	2 (2%)	7	21
16	1U	114/118 (97%)	107 (94%)	7 (6%)	0	100	100
16	2U	114/118 (97%)	104 (91%)	8 (7%)	2 (2%)	6	19
17	1V	99/101 (98%)	91 (92%)	6 (6%)	2 (2%)	6	16
17	2V	99/101 (98%)	84 (85%)	12 (12%)	3 (3%)	3	9
18	1W	110/113 (97%)	103 (94%)	7 (6%)	0	100	100
18	2W	110/113 (97%)	103 (94%)	5 (4%)	2 (2%)	6	19
19	1X	93/96 (97%)	87 (94%)	4 (4%)	2 (2%)	5	15
19	2X	93/96 (97%)	82 (88%)	8 (9%)	3 (3%)	3	8
20	1Y	105/110 (96%)	88 (84%)	12 (11%)	5 (5%)	2	3
20	2Y	105/110 (96%)	90 (86%)	10 (10%)	5 (5%)	2	3
21	1Z	183/206 (89%)	162 (88%)	19 (10%)	2 (1%)	11	29
21	2Z	176/206 (85%)	144 (82%)	25 (14%)	7 (4%)	2	5
22	10	81/85 (95%)	75 (93%)	6 (7%)	0	100	100
22	20	81/85 (95%)	73 (90%)	8 (10%)	0	100	100
23	11	95/98 (97%)	91 (96%)	3 (3%)	1 (1%)	11	29
23	21	95/98 (97%)	91 (96%)	4 (4%)	0	100	100
24	12	68/72 (94%)	64 (94%)	3 (4%)	1 (2%)	8	23
24	22	68/72 (94%)	59 (87%)	7 (10%)	2 (3%)	3	10
25	13	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
25	23	57/60 (95%)	48 (84%)	8 (14%)	1 (2%)	6	19
26	14	67/71 (94%)	49 (73%)	13 (19%)	5 (8%)	1	1
26	24	67/71 (94%)	46 (69%)	15 (22%)	6 (9%)	0	1
27	15	57/60 (95%)	53 (93%)	4 (7%)	0	100	100
27	25	57/60 (95%)	53 (93%)	3 (5%)	1 (2%)	6	19
28	16	51/54 (94%)	48 (94%)	3 (6%)	0	100	100
28	26	51/54 (94%)	42 (82%)	9 (18%)	0	100	100
29	17	46/49 (94%)	42 (91%)	4 (9%)	0	100	100
29	27	46/49 (94%)	42 (91%)	4 (9%)	0	100	100
30	18	62/65 (95%)	60 (97%)	2 (3%)	0	100	100
30	28	62/65 (95%)	54 (87%)	8 (13%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
31	19	35/37 (95%)	33 (94%)	2 (6%)	0	100	100
31	29	35/37 (95%)	33 (94%)	1 (3%)	1 (3%)	3	10
33	1b	229/256 (90%)	185 (81%)	33 (14%)	11 (5%)	2	3
33	2b	229/256 (90%)	174 (76%)	45 (20%)	10 (4%)	2	4
34	1c	204/239 (85%)	181 (89%)	21 (10%)	2 (1%)	12	32
34	2c	204/239 (85%)	159 (78%)	38 (19%)	7 (3%)	3	7
35	1d	206/209 (99%)	172 (84%)	26 (13%)	8 (4%)	2	5
35	2d	206/209 (99%)	162 (79%)	33 (16%)	11 (5%)	1	3
36	1e	146/162 (90%)	130 (89%)	10 (7%)	6 (4%)	2	5
36	2e	146/162 (90%)	127 (87%)	12 (8%)	7 (5%)	2	3
37	1f	98/101 (97%)	87 (89%)	8 (8%)	3 (3%)	3	8
37	2f	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
38	1g	153/156 (98%)	128 (84%)	24 (16%)	1 (1%)	18	40
38	2g	153/156 (98%)	132 (86%)	16 (10%)	5 (3%)	3	7
39	1h	135/138 (98%)	122 (90%)	13 (10%)	0	100	100
39	2h	135/138 (98%)	113 (84%)	20 (15%)	2 (2%)	8	23
40	1i	125/128 (98%)	103 (82%)	19 (15%)	3 (2%)	4	13
40	2i	125/128 (98%)	103 (82%)	21 (17%)	1 (1%)	16	37
41	1j	95/105 (90%)	79 (83%)	12 (13%)	4 (4%)	2	5
41	2j	94/105 (90%)	74 (79%)	12 (13%)	8 (8%)	0	1
42	1k	112/129 (87%)	92 (82%)	20 (18%)	0	100	100
42	2k	112/129 (87%)	100 (89%)	8 (7%)	4 (4%)	2	6
43	1l	119/132 (90%)	106 (89%)	10 (8%)	3 (2%)	4	13
43	2l	119/132 (90%)	103 (87%)	12 (10%)	4 (3%)	3	7
44	1m	121/126 (96%)	106 (88%)	12 (10%)	3 (2%)	4	13
44	2m	120/126 (95%)	95 (79%)	21 (18%)	4 (3%)	3	7
45	1n	58/61 (95%)	51 (88%)	5 (9%)	2 (3%)	3	7
45	2n	58/61 (95%)	50 (86%)	6 (10%)	2 (3%)	3	7
46	1o	86/89 (97%)	80 (93%)	4 (5%)	2 (2%)	5	14
46	2o	86/89 (97%)	78 (91%)	8 (9%)	0	100	100
47	1p	80/88 (91%)	70 (88%)	8 (10%)	2 (2%)	4	13

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	2p	80/88 (91%)	66 (82%)	13 (16%)	1 (1%)	9	26
48	1q	97/105 (92%)	81 (84%)	10 (10%)	6 (6%)	1	2
48	2q	97/105 (92%)	79 (81%)	15 (16%)	3 (3%)	3	8
49	1r	66/88 (75%)	57 (86%)	6 (9%)	3 (4%)	2	4
49	2r	66/88 (75%)	58 (88%)	8 (12%)	0	100	100
50	1s	81/93 (87%)	68 (84%)	11 (14%)	2 (2%)	4	13
50	2s	81/93 (87%)	62 (76%)	17 (21%)	2 (2%)	4	13
51	1t	94/106 (89%)	76 (81%)	12 (13%)	6 (6%)	1	2
51	2t	94/106 (89%)	76 (81%)	14 (15%)	4 (4%)	2	4
52	1u	21/27 (78%)	19 (90%)	1 (5%)	1 (5%)	2	3
52	2u	21/27 (78%)	15 (71%)	5 (24%)	1 (5%)	2	3
All	All	11423/12128 (94%)	9911 (87%)	1239 (11%)	273 (2%)	4	13

5 of 273 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
7	1H	126	PRO
8	1I	117	GLU
9	1N	28	THR
9	1N	88	GLU
11	1P	38	GLN

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	16
3	2D	215/218 (99%)	195 (91%)	20 (9%)	8	23
4	1E	164/166 (99%)	151 (92%)	13 (8%)	11	29
4	2E	164/166 (99%)	144 (88%)	20 (12%)	5	14
5	1F	160/166 (96%)	133 (83%)	27 (17%)	2	6

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	2F	159/166 (96%)	142 (89%)	17 (11%)	6	18
6	1G	143/156 (92%)	120 (84%)	23 (16%)	2	7
6	2G	143/156 (92%)	120 (84%)	23 (16%)	2	7
7	1H	144/148 (97%)	126 (88%)	18 (12%)	4	13
7	2H	144/148 (97%)	127 (88%)	17 (12%)	5	15
8	1I	113/124 (91%)	84 (74%)	29 (26%)	0	1
8	2I	105/124 (85%)	84 (80%)	21 (20%)	1	3
9	1N	118/119 (99%)	106 (90%)	12 (10%)	7	20
9	2N	118/119 (99%)	100 (85%)	18 (15%)	3	8
10	1O	100/100 (100%)	87 (87%)	13 (13%)	4	12
10	2O	100/100 (100%)	91 (91%)	9 (9%)	9	24
11	1P	115/116 (99%)	96 (84%)	19 (16%)	2	7
11	2P	115/116 (99%)	101 (88%)	14 (12%)	5	14
12	1Q	111/111 (100%)	100 (90%)	11 (10%)	7	21
12	2Q	111/111 (100%)	100 (90%)	11 (10%)	7	21
13	1R	101/101 (100%)	87 (86%)	14 (14%)	3	10
13	2R	101/101 (100%)	95 (94%)	6 (6%)	18	41
14	1S	86/88 (98%)	73 (85%)	13 (15%)	3	8
14	2S	85/88 (97%)	71 (84%)	14 (16%)	2	7
15	1T	115/127 (91%)	105 (91%)	10 (9%)	9	25
15	2T	113/127 (89%)	103 (91%)	10 (9%)	9	24
16	1U	93/94 (99%)	88 (95%)	5 (5%)	20	44
16	2U	93/94 (99%)	82 (88%)	11 (12%)	5	15
17	1V	80/82 (98%)	75 (94%)	5 (6%)	16	38
17	2V	80/82 (98%)	69 (86%)	11 (14%)	3	10
18	1W	90/92 (98%)	81 (90%)	9 (10%)	7	20
18	2W	90/92 (98%)	81 (90%)	9 (10%)	7	20
19	1X	77/78 (99%)	71 (92%)	6 (8%)	11	30
19	2X	77/78 (99%)	71 (92%)	6 (8%)	11	30
20	1Y	85/91 (93%)	72 (85%)	13 (15%)	3	8
20	2Y	85/91 (93%)	71 (84%)	14 (16%)	2	7

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	1Z	158/179 (88%)	122 (77%)	36 (23%)	1	2
21	2Z	149/179 (83%)	116 (78%)	33 (22%)	1	2
22	10	65/67 (97%)	58 (89%)	7 (11%)	6	18
22	20	65/67 (97%)	63 (97%)	2 (3%)	35	59
23	11	80/83 (96%)	69 (86%)	11 (14%)	3	10
23	21	80/83 (96%)	70 (88%)	10 (12%)	4	13
24	12	65/67 (97%)	51 (78%)	14 (22%)	1	2
24	22	65/67 (97%)	53 (82%)	12 (18%)	1	4
25	13	51/52 (98%)	43 (84%)	8 (16%)	2	8
25	23	50/52 (96%)	42 (84%)	8 (16%)	2	8
26	14	59/63 (94%)	46 (78%)	13 (22%)	1	2
26	24	53/63 (84%)	45 (85%)	8 (15%)	3	8
27	15	50/52 (96%)	42 (84%)	8 (16%)	2	8
27	25	50/52 (96%)	49 (98%)	1 (2%)	48	71
28	16	51/52 (98%)	43 (84%)	8 (16%)	2	8
28	26	50/52 (96%)	43 (86%)	7 (14%)	3	10
29	17	41/42 (98%)	39 (95%)	2 (5%)	22	48
29	27	41/42 (98%)	35 (85%)	6 (15%)	3	9
30	18	54/55 (98%)	46 (85%)	8 (15%)	3	9
30	28	54/55 (98%)	51 (94%)	3 (6%)	19	43
31	19	34/34 (100%)	29 (85%)	5 (15%)	3	9
31	29	34/34 (100%)	31 (91%)	3 (9%)	9	24
33	1b	192/220 (87%)	158 (82%)	34 (18%)	2	4
33	2b	187/220 (85%)	142 (76%)	45 (24%)	1	1
34	1c	142/188 (76%)	117 (82%)	25 (18%)	2	5
34	2c	140/188 (74%)	114 (81%)	26 (19%)	1	4
35	1d	169/181 (93%)	140 (83%)	29 (17%)	2	5
35	2d	173/181 (96%)	140 (81%)	33 (19%)	1	3
36	1e	113/123 (92%)	98 (87%)	15 (13%)	4	12
36	2e	114/123 (93%)	97 (85%)	17 (15%)	3	8
37	1f	84/90 (93%)	76 (90%)	8 (10%)	8	22

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
37	2f	85/90 (94%)	73 (86%)	12 (14%)	3	9
38	1g	119/127 (94%)	102 (86%)	17 (14%)	3	9
38	2g	120/127 (94%)	99 (82%)	21 (18%)	2	5
39	1h	114/119 (96%)	100 (88%)	14 (12%)	4	14
39	2h	114/119 (96%)	100 (88%)	14 (12%)	4	14
40	1i	90/99 (91%)	75 (83%)	15 (17%)	2	6
40	2i	89/99 (90%)	74 (83%)	15 (17%)	2	6
41	1j	66/92 (72%)	58 (88%)	8 (12%)	5	14
41	2j	69/92 (75%)	53 (77%)	16 (23%)	1	2
42	1k	82/99 (83%)	71 (87%)	11 (13%)	4	11
42	2k	83/99 (84%)	71 (86%)	12 (14%)	3	9
43	1l	96/108 (89%)	86 (90%)	10 (10%)	7	19
43	2l	96/108 (89%)	84 (88%)	12 (12%)	4	13
44	1m	93/101 (92%)	79 (85%)	14 (15%)	3	8
44	2m	92/101 (91%)	77 (84%)	15 (16%)	2	7
45	1n	49/50 (98%)	43 (88%)	6 (12%)	5	14
45	2n	49/50 (98%)	45 (92%)	4 (8%)	10	27
46	1o	78/80 (98%)	72 (92%)	6 (8%)	12	30
46	2o	78/80 (98%)	67 (86%)	11 (14%)	3	9
47	1p	69/74 (93%)	58 (84%)	11 (16%)	2	8
47	2p	68/74 (92%)	58 (85%)	10 (15%)	3	9
48	1q	94/97 (97%)	81 (86%)	13 (14%)	3	10
48	2q	94/97 (97%)	87 (93%)	7 (7%)	13	32
49	1r	59/77 (77%)	54 (92%)	5 (8%)	10	25
49	2r	59/77 (77%)	52 (88%)	7 (12%)	5	15
50	1s	69/80 (86%)	56 (81%)	13 (19%)	1	4
50	2s	67/80 (84%)	55 (82%)	12 (18%)	2	4
51	1t	70/82 (85%)	57 (81%)	13 (19%)	1	4
51	2t	70/82 (85%)	62 (89%)	8 (11%)	5	16
52	1u	18/22 (82%)	16 (89%)	2 (11%)	6	17
52	2u	18/22 (82%)	16 (89%)	2 (11%)	6	17

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	9338/10064 (93%)	8041 (86%)	1297 (14%)	3 10

5 of 1297 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
21	2Z	131	ARG
38	2g	98	SER
24	22	35	LEU
21	2Z	126	VAL
33	2b	230	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 153 such sidechains are listed below:

Mol	Chain	Res	Type
35	2d	77	ASN
46	2o	9	GLN
35	2d	125	HIS
38	2g	153	HIS
50	2s	56	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2864/2915 (98%)	555 (19%)	33 (1%)
1	2A	2791/2915 (95%)	534 (19%)	34 (1%)
2	1B	119/121 (98%)	12 (10%)	0
2	2B	118/121 (97%)	36 (30%)	0
32	1a	1497/1521 (98%)	297 (19%)	0
32	2a	1501/1521 (98%)	354 (23%)	0
53	1v	4/24 (16%)	1 (25%)	0
53	2v	7/24 (29%)	4 (57%)	0
54	1x	75/77 (97%)	13 (17%)	0
54	2x	75/77 (97%)	12 (16%)	0
All	All	9051/9316 (97%)	1818 (20%)	67 (0%)

5 of 1818 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	15	G
1	1A	22	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1A	34	C
1	1A	36	G
1	1A	44	G

5 of 67 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2A	1608	A
1	2A	1935	G
1	2A	2439	A
1	1A	2183	C
1	1A	2134	A

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
32	G7M	1a	527	55,32	23,26,27	1.60	4 (17%)	34,39,42	1.68	5 (14%)
43	0TD	1l	92	43	8,9,10	4.14	2 (25%)	6,11,13	2.07	2 (33%)
32	2MG	1a	1207	32	23,26,27	1.31	4 (17%)	33,38,41	2.25	8 (24%)
32	UR3	2a	1498	32	19,22,23	1.14	2 (10%)	26,32,35	1.72	3 (11%)
1	OMC	2A	1920	1	19,22,23	0.82	0	25,31,34	0.99	2 (8%)
43	0TD	2l	92	43	8,9,10	4.63	2 (25%)	6,11,13	1.18	1 (16%)
1	OMG	1A	2251	55,54,1	23,26,27	1.31	3 (13%)	32,38,41	2.02	6 (18%)
32	MA6	1a	1518	32	23,26,27	0.41	0	33,38,41	1.95	9 (27%)
32	5MC	1a	1407	32	19,22,23	1.40	2 (10%)	26,32,35	1.28	4 (15%)
1	PSU	2A	1917	1	18,21,22	1.45	2 (11%)	21,30,33	2.20	3 (14%)
1	5MC	2A	1962	55,1	19,22,23	1.23	3 (15%)	26,32,35	1.23	4 (15%)
32	5MC	2a	1404	32	19,22,23	1.63	3 (15%)	26,32,35	1.13	2 (7%)
1	PSU	1A	2605	55,1	18,21,22	1.40	4 (22%)	21,30,33	1.88	6 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	PSU	1A	1917	1	18,21,22	1.52	3 (16%)	21,30,33	1.91	4 (19%)
32	5MC	2a	1407	32	19,22,23	1.49	3 (15%)	26,32,35	1.38	4 (15%)
54	5MU	1x	54	54	19,22,23	1.45	4 (21%)	27,32,35	1.75	7 (25%)
1	PSU	1A	1911	1	18,21,22	1.38	3 (16%)	21,30,33	2.17	4 (19%)
1	5MU	1A	1939	1	19,22,23	1.31	4 (21%)	27,32,35	2.12	6 (22%)
54	PSU	2x	55	54	18,21,22	1.31	2 (11%)	21,30,33	1.90	4 (19%)
54	8AN	1x	76	54,60,55	21,24,25	1.68	4 (19%)	26,35,38	2.10	8 (30%)
1	5MU	2A	1939	1	19,22,23	1.55	4 (21%)	27,32,35	2.58	8 (29%)
54	5MU	2x	54	54	19,22,23	1.49	5 (26%)	27,32,35	1.66	5 (18%)
32	MA6	2a	1518	32	23,26,27	0.44	0	33,38,41	1.86	8 (24%)
32	PSU	2a	516	55,32	18,21,22	1.37	3 (16%)	21,30,33	2.05	5 (23%)
54	8AN	2x	76	54,60,55	21,24,25	1.47	3 (14%)	26,35,38	2.38	10 (38%)
32	5MC	2a	967	32	19,22,23	1.97	3 (15%)	26,32,35	1.25	4 (15%)
54	5MC	2x	32	54	19,22,23	1.44	3 (15%)	26,32,35	1.18	4 (15%)
32	5MC	2a	1400	32	19,22,23	1.58	3 (15%)	26,32,35	1.24	4 (15%)
1	5MC	1A	1962	55,1	19,22,23	1.53	3 (15%)	26,32,35	1.24	4 (15%)
1	PSU	2A	2605	1	18,21,22	1.40	3 (16%)	21,30,33	2.01	5 (23%)
1	5MC	2A	1942	1	19,22,23	1.58	3 (15%)	26,32,35	1.45	5 (19%)
54	5MC	1x	32	54	19,22,23	1.93	3 (15%)	26,32,35	1.57	4 (15%)
32	G7M	2a	527	55,32	23,26,27	1.42	4 (17%)	34,39,42	1.63	4 (11%)
32	PSU	1a	516	55,32	18,21,22	1.47	2 (11%)	21,30,33	2.17	5 (23%)
1	OMC	1A	1920	1	19,22,23	0.81	0	25,31,34	1.08	2 (8%)
1	5MC	1A	1942	1	19,22,23	1.04	2 (10%)	26,32,35	1.53	7 (26%)
1	PSU	2A	1911	1	18,21,22	1.53	4 (22%)	21,30,33	2.08	4 (19%)
1	2MA	2A	2503	55,1	22,25,26	1.57	5 (22%)	32,37,40	2.25	6 (18%)
1	2MA	1A	2503	55,1	22,25,26	1.46	5 (22%)	32,37,40	2.49	9 (28%)
32	UR3	1a	1498	32	19,22,23	1.06	2 (10%)	26,32,35	1.90	4 (15%)
32	MA6	2a	1519	32	23,26,27	0.42	0	33,38,41	2.27	10 (30%)
1	OMG	2A	2251	55,54,1	23,26,27	1.30	3 (13%)	32,38,41	1.94	7 (21%)
32	5MC	1a	1404	32	19,22,23	1.59	3 (15%)	26,32,35	1.19	3 (11%)
32	M2G	1a	966	32	24,27,28	1.28	3 (12%)	33,40,43	1.87	5 (15%)
32	2MG	2a	1207	55,32	23,26,27	1.26	4 (17%)	33,38,41	2.02	7 (21%)
54	4SU	2x	8	54	18,21,22	2.12	5 (27%)	25,30,33	1.68	7 (28%)
32	5MC	1a	967	32	19,22,23	1.36	3 (15%)	26,32,35	1.01	2 (7%)
1	OMU	2A	2552	55,1	19,22,23	1.24	3 (15%)	25,31,34	2.05	6 (24%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MU	1A	1915	1	19,22,23	1.42	5 (26%)	27,32,35	2.33	7 (25%)
54	PSU	1x	55	54	18,21,22	1.34	3 (16%)	21,30,33	2.42	6 (28%)
32	4OC	1a	1402	32	20,23,24	0.76	1 (5%)	25,32,35	1.02	2 (8%)
54	4SU	1x	8	54	18,21,22	2.11	5 (27%)	25,30,33	1.57	3 (12%)
32	M2G	2a	966	32	24,27,28	1.36	4 (16%)	33,40,43	1.93	6 (18%)
32	4OC	2a	1402	55,32	20,23,24	0.84	1 (5%)	25,32,35	1.10	2 (8%)
32	5MC	1a	1400	32	19,22,23	1.75	3 (15%)	26,32,35	1.56	6 (23%)
32	MA6	1a	1519	32	23,26,27	0.48	0	33,38,41	1.94	10 (30%)
1	OMU	1A	2552	55,1	19,22,23	1.18	4 (21%)	25,31,34	2.23	5 (20%)
1	5MU	2A	1915	55,1	19,22,23	1.57	4 (21%)	27,32,35	2.11	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
32	G7M	1a	527	55,32	-	2/7/25/26	0/3/3/3
43	0TD	1l	92	43	-	3/7/12/14	-
32	2MG	1a	1207	32	-	0/9/27/28	0/3/3/3
32	UR3	2a	1498	32	-	2/7/25/26	0/2/2/2
1	OMC	2A	1920	1	-	0/9/27/28	0/2/2/2
43	0TD	2l	92	43	-	2/7/12/14	-
1	OMG	1A	2251	55,54,1	-	0/9/27/28	0/3/3/3
32	MA6	1a	1518	32	-	0/11/29/30	0/3/3/3
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	55,1	-	0/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	2/7/25/26	0/2/2/2
1	PSU	1A	2605	55,1	-	0/7/25/26	0/2/2/2
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	32	-	0/7/25/26	0/2/2/2
54	5MU	1x	54	54	-	0/7/25/26	0/2/2/2
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
1	5MU	1A	1939	1	-	0/7/25/26	0/2/2/2
54	PSU	2x	55	54	-	0/7/25/26	0/2/2/2
54	8AN	1x	76	54,60,55	-	3/7/25/26	0/3/3/3
1	5MU	2A	1939	1	-	0/7/25/26	0/2/2/2
54	5MU	2x	54	54	-	0/7/25/26	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	MA6	2a	1518	32	-	0/11/29/30	0/3/3/3
32	PSU	2a	516	55,32	-	0/7/25/26	0/2/2/2
54	8AN	2x	76	54,60,55	-	2/7/25/26	0/3/3/3
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2
54	5MC	2x	32	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	1400	32	-	0/7/25/26	0/2/2/2
1	5MC	1A	1962	55,1	-	0/7/25/26	0/2/2/2
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
54	5MC	1x	32	54	-	0/7/25/26	0/2/2/2
32	G7M	2a	527	55,32	-	2/7/25/26	0/3/3/3
32	PSU	1a	516	55,32	-	0/7/25/26	0/2/2/2
1	OMC	1A	1920	1	-	1/9/27/28	0/2/2/2
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
1	PSU	2A	1911	1	-	3/7/25/26	0/2/2/2
1	2MA	2A	2503	55,1	-	0/7/25/26	0/3/3/3
1	2MA	1A	2503	55,1	-	1/7/25/26	0/3/3/3
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	3/11/29/30	0/3/3/3
1	OMG	2A	2251	55,54,1	-	0/9/27/28	0/3/3/3
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	0/11/29/30	0/3/3/3
32	2MG	2a	1207	55,32	-	0/9/27/28	0/3/3/3
54	4SU	2x	8	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	0/7/25/26	0/2/2/2
1	OMU	2A	2552	55,1	-	0/9/27/28	0/2/2/2
1	5MU	1A	1915	1	-	0/7/25/26	0/2/2/2
54	PSU	1x	55	54	-	0/7/25/26	0/2/2/2
32	4OC	1a	1402	32	-	2/9/29/30	0/2/2/2
54	4SU	1x	8	54	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/11/29/30	0/3/3/3
32	4OC	2a	1402	55,32	-	2/9/29/30	0/2/2/2
32	5MC	1a	1400	32	-	2/7/25/26	0/2/2/2
32	MA6	1a	1519	32	-	3/11/29/30	0/3/3/3
1	OMU	1A	2552	55,1	-	0/9/27/28	0/2/2/2
1	5MU	2A	1915	55,1	-	0/7/25/26	0/2/2/2

The worst 5 of 168 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.08	1.70	1.82

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	1l	92	0TD	CB-SB	-10.79	1.71	1.82
32	2a	967	5MC	C5-C4	7.54	1.49	1.44
54	1x	32	5MC	C5-C4	6.71	1.49	1.44
32	1a	1400	5MC	C5-C4	6.14	1.48	1.44

The worst 5 of 300 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2503	2MA	C5-C4-N3	-9.13	117.57	127.18
1	2A	2503	2MA	C5-C4-N3	-8.88	117.82	127.18
32	1a	1498	UR3	C4-N3-C2	-7.33	118.68	124.58
32	1a	516	PSU	N1-C2-N3	6.95	122.50	115.17
54	1x	55	PSU	N1-C2-N3	6.88	122.43	115.17

There are no chirality outliers.

5 of 35 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
43	1l	92	0TD	CA-CB-SB-CSB
54	1x	76	8AN	C3'-C4'-C5'-O5'
1	2A	1911	PSU	C2'-C1'-C5-C4
1	2A	1911	PSU	O4'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'

There are no ring outliers.

22 monomers are involved in 35 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
43	1l	92	0TD	3	0
32	1a	1207	2MG	3	0
43	2l	92	0TD	2	0
1	1A	2251	OMG	1	0
32	1a	1518	MA6	2	0
32	2a	1407	5MC	1	0
1	1A	1939	5MU	1	0
54	1x	76	8AN	2	0
1	2A	1939	5MU	2	0
32	2a	1518	MA6	2	0
54	2x	76	8AN	2	0
1	1A	1962	5MC	1	0
1	1A	1920	OMC	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	2A	1911	PSU	1	0
32	2a	1519	MA6	2	0
32	1a	966	M2G	2	0
32	2a	1207	2MG	1	0
54	2x	8	4SU	1	0
32	1a	1402	4OC	3	0
54	1x	8	4SU	1	0
32	1a	1519	MA6	1	0
1	1A	2552	OMU	2	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2734 ligands modelled in this entry, 2728 are monoatomic - leaving 6 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
57	SPS	2A	3851	55	20,23,23	1.47	4 (20%)	23,30,30	2.65	10 (43%)
57	SPS	1A	4105	55	20,23,23	1.85	4 (20%)	23,30,30	2.41	5 (21%)
59	SF4	2d	304	35	0,12,12	-	-	-	-	-
59	SF4	1d	302	35	0,12,12	-	-	-	-	-
60	FME	2x	107	54	8,9,10	0.34	0	8,9,11	1.33	2 (25%)
60	FME	1x	112	54	8,9,10	0.55	0	8,9,11	1.71	2 (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
57	SPS	2A	3851	55	-	0/15/18/18	0/1/1/1
57	SPS	1A	4105	55	-	5/15/18/18	0/1/1/1
59	SF4	2d	304	35	-	-	0/6/5/5
59	SF4	1d	302	35	-	-	0/6/5/5
60	FME	2x	107	54	-	2/7/9/11	-
60	FME	1x	112	54	-	3/7/9/11	-

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	1A	4105	SPS	C16-S17	-5.47	1.73	1.79
57	2A	3851	SPS	C16-S17	-3.39	1.76	1.79
57	1A	4105	SPS	C14-S15	-3.16	1.70	1.80
57	2A	3851	SPS	C14-S15	-3.15	1.71	1.80
57	1A	4105	SPS	C6-C1	2.85	1.50	1.45

The worst 5 of 19 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	2A	3851	SPS	C7-C5-N4	6.89	121.43	113.42
57	1A	4105	SPS	C7-C5-N4	6.14	120.56	113.42
57	2A	3851	SPS	C7-C5-C6	-5.90	118.82	126.47
57	1A	4105	SPS	C7-C5-C6	-5.24	119.68	126.47
57	1A	4105	SPS	O15-S15-C14	4.73	112.47	106.12

There are no chirality outliers.

5 of 10 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
57	1A	4105	SPS	C14-C12-C13-O13
57	1A	4105	SPS	C12-C14-S15-O15
57	1A	4105	SPS	C12-C14-S15-C16
60	1x	112	FME	CB-CA-N-CN
60	1x	112	FME	C-CA-CB-CG

There are no ring outliers.

3 monomers are involved in 8 short contacts:

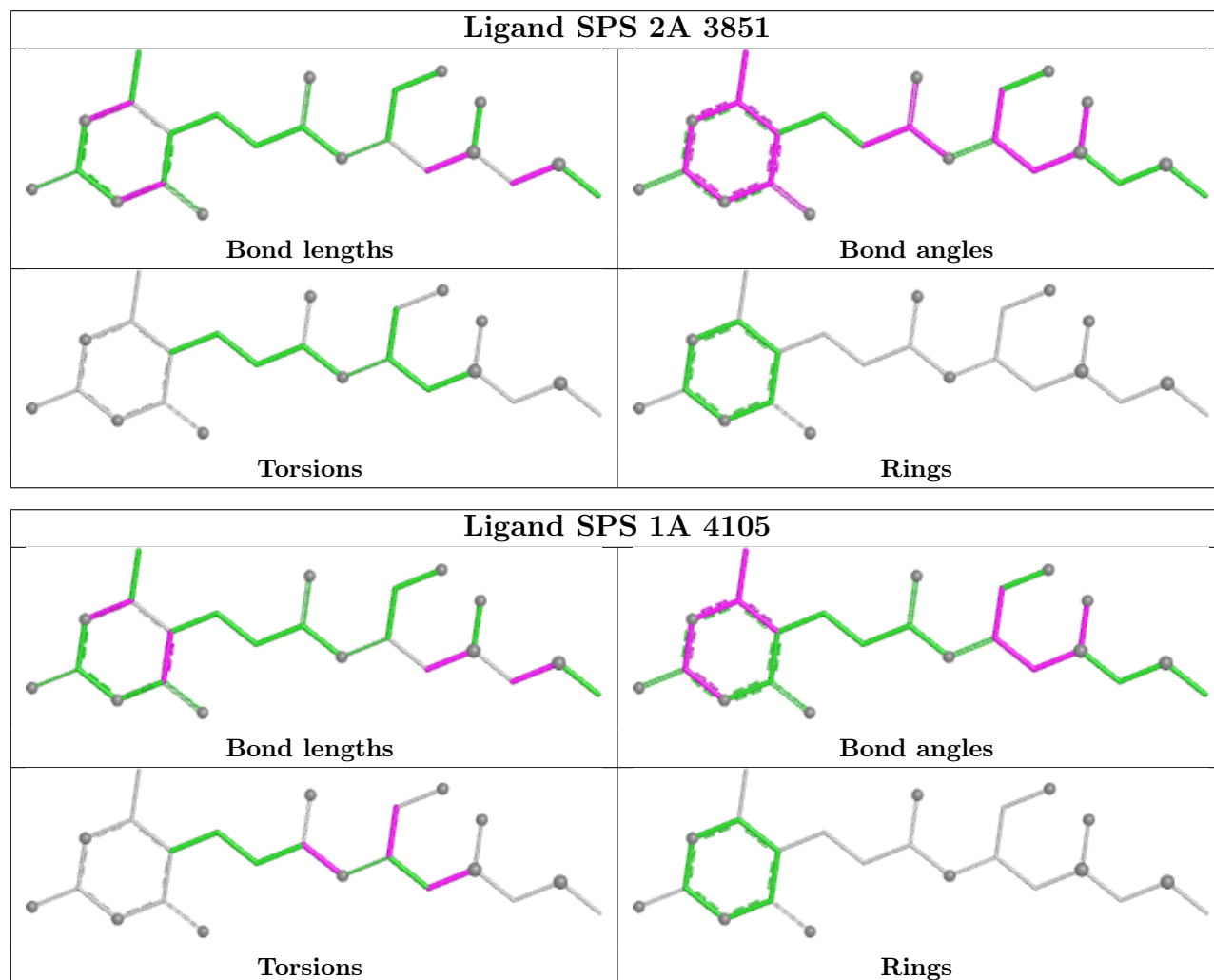
Mol	Chain	Res	Type	Clashes	Symm-Clashes
57	2A	3851	SPS	2	0
57	1A	4105	SPS	4	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
59	2d	304	SF4	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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%)	-0.52	61 (2%) 63 55	26, 44, 99, 113	0
1	2A	2789/2915 (95%)	-0.32	41 (1%) 72 65	39, 63, 95, 114	0
2	1B	120/121 (99%)	-0.70	0 100 100	35, 54, 68, 85	0
2	2B	120/121 (99%)	0.39	4 (3%) 49 42	67, 83, 92, 102	0
3	1D	275/276 (99%)	-0.03	4 (1%) 72 65	29, 44, 58, 83	0
3	2D	275/276 (99%)	0.34	10 (3%) 46 38	41, 57, 68, 80	0
4	1E	204/206 (99%)	-0.06	6 (2%) 53 46	30, 49, 64, 79	0
4	2E	204/206 (99%)	0.11	4 (1%) 65 57	41, 63, 74, 85	0
5	1F	202/210 (96%)	-0.12	0 100 100	31, 50, 73, 87	0
5	2F	202/210 (96%)	0.22	6 (2%) 52 45	42, 71, 83, 92	0
6	1G	181/182 (99%)	0.12	5 (2%) 55 47	49, 61, 73, 90	0
6	2G	181/182 (99%)	0.94	10 (5%) 30 25	73, 82, 90, 95	0
7	1H	174/180 (96%)	-0.13	1 (0%) 85 82	44, 59, 69, 72	0
7	2H	174/180 (96%)	0.64	7 (4%) 42 35	71, 83, 90, 95	0
8	1I	146/148 (98%)	0.29	2 (1%) 73 67	48, 74, 84, 91	0
8	2I	146/148 (98%)	0.83	14 (9%) 13 12	61, 78, 86, 92	0
9	1N	140/140 (100%)	-0.13	1 (0%) 84 80	34, 46, 64, 82	0
9	2N	140/140 (100%)	0.28	2 (1%) 73 67	52, 69, 80, 87	0
10	1O	122/122 (100%)	-0.17	1 (0%) 82 78	36, 49, 63, 67	0
10	2O	122/122 (100%)	-0.19	1 (0%) 82 78	47, 59, 70, 78	0
11	1P	149/150 (99%)	0.24	2 (1%) 75 69	30, 52, 71, 80	0
11	2P	149/150 (99%)	0.16	3 (2%) 65 57	45, 70, 84, 88	0
12	1Q	141/141 (100%)	0.04	3 (2%) 63 55	36, 48, 62, 85	0
12	2Q	141/141 (100%)	0.37	1 (0%) 84 80	53, 69, 80, 85	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	1R	118/118 (100%)	-0.22	1 (0%) 82 78	36, 43, 58, 69	0
13	2R	118/118 (100%)	-0.01	2 (1%) 69 62	45, 58, 66, 72	0
14	1S	110/112 (98%)	-0.05	1 (0%) 81 76	43, 54, 65, 71	0
14	2S	110/112 (98%)	0.68	5 (4%) 38 31	67, 76, 84, 96	0
15	1T	131/146 (89%)	-0.06	3 (2%) 61 53	42, 53, 74, 78	0
15	2T	131/146 (89%)	0.15	2 (1%) 72 65	51, 61, 79, 88	0
16	1U	116/118 (98%)	-0.12	2 (1%) 69 62	31, 40, 53, 75	0
16	2U	116/118 (98%)	0.31	3 (2%) 57 49	49, 66, 75, 84	0
17	1V	101/101 (100%)	-0.31	0 100 100	34, 48, 63, 69	0
17	2V	101/101 (100%)	0.45	2 (1%) 65 57	52, 74, 81, 86	0
18	1W	112/113 (99%)	-0.34	0 100 100	33, 42, 59, 85	0
18	2W	112/113 (99%)	0.05	0 100 100	47, 57, 72, 86	0
19	1X	95/96 (98%)	-0.10	2 (2%) 63 55	34, 47, 64, 75	0
19	2X	95/96 (98%)	0.31	4 (4%) 40 33	52, 65, 79, 82	0
20	1Y	107/110 (97%)	-0.14	1 (0%) 81 76	44, 54, 71, 77	0
20	2Y	107/110 (97%)	0.36	2 (1%) 66 58	65, 74, 82, 84	0
21	1Z	185/206 (89%)	0.06	0 100 100	47, 65, 80, 88	0
21	2Z	178/206 (86%)	0.55	4 (2%) 62 54	70, 81, 88, 91	0
22	10	83/85 (97%)	0.63	8 (9%) 13 12	34, 44, 71, 88	0
22	20	83/85 (97%)	0.93	10 (12%) 9 8	56, 68, 83, 91	0
23	11	97/98 (98%)	0.16	2 (2%) 63 55	35, 49, 68, 76	0
23	21	97/98 (98%)	0.35	3 (3%) 51 44	45, 63, 78, 83	0
24	12	70/72 (97%)	-0.25	1 (1%) 73 67	42, 54, 65, 74	0
24	22	70/72 (97%)	0.22	0 100 100	60, 74, 81, 85	0
25	13	59/60 (98%)	-0.42	0 100 100	32, 45, 64, 78	0
25	23	59/60 (98%)	0.39	1 (1%) 69 62	57, 69, 79, 84	0
26	14	69/71 (97%)	0.42	2 (2%) 53 46	58, 76, 90, 94	0
26	24	69/71 (97%)	1.07	10 (14%) 6 5	77, 89, 98, 103	0
27	15	59/60 (98%)	-0.31	0 100 100	32, 43, 61, 67	0
27	25	59/60 (98%)	0.09	0 100 100	44, 57, 71, 81	0
28	16	53/54 (98%)	-0.25	0 100 100	40, 48, 62, 70	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	0.05	0 100 100	59, 64, 71, 78	0
29	17	48/49 (97%)	0.06	2 (4%) 40 33	33, 38, 59, 66	0
29	27	48/49 (97%)	0.09	2 (4%) 40 33	43, 49, 64, 73	0
30	18	64/65 (98%)	0.20	2 (3%) 51 44	35, 42, 50, 61	0
30	28	64/65 (98%)	0.28	0 100 100	52, 59, 67, 77	0
31	19	37/37 (100%)	-0.10	0 100 100	42, 47, 63, 66	0
31	29	37/37 (100%)	0.57	1 (2%) 56 48	66, 73, 84, 85	0
32	1a	1488/1521 (97%)	-0.04	33 (2%) 62 54	41, 73, 96, 110	0
32	2a	1491/1521 (98%)	0.16	25 (1%) 69 62	58, 83, 99, 110	0
33	1b	231/256 (90%)	0.47	11 (4%) 35 30	68, 81, 89, 94	0
33	2b	231/256 (90%)	1.07	25 (10%) 11 10	80, 89, 95, 99	0
34	1c	206/239 (86%)	0.21	3 (1%) 72 65	66, 77, 86, 91	0
34	2c	206/239 (86%)	1.19	35 (16%) 4 3	77, 87, 93, 97	0
35	1d	208/209 (99%)	0.67	11 (5%) 32 27	59, 76, 83, 87	0
35	2d	208/209 (99%)	1.15	33 (15%) 5 4	70, 80, 87, 91	0
36	1e	148/162 (91%)	0.21	4 (2%) 56 48	54, 69, 78, 86	0
36	2e	148/162 (91%)	0.78	7 (4%) 36 30	70, 82, 89, 91	0
37	1f	100/101 (99%)	0.22	2 (2%) 65 57	59, 73, 81, 84	0
37	2f	100/101 (99%)	0.34	2 (2%) 65 57	68, 78, 85, 88	0
38	1g	155/156 (99%)	0.01	3 (1%) 66 58	66, 74, 87, 102	0
38	2g	155/156 (99%)	0.43	9 (5%) 29 24	73, 84, 93, 100	0
39	1h	137/138 (99%)	0.32	3 (2%) 62 54	61, 71, 78, 79	0
39	2h	137/138 (99%)	0.59	8 (5%) 29 24	72, 82, 87, 90	0
40	1i	127/128 (99%)	0.56	8 (6%) 26 22	63, 79, 86, 90	0
40	2i	127/128 (99%)	1.53	38 (29%) 1 1	75, 89, 94, 97	0
41	1j	97/105 (92%)	0.79	5 (5%) 33 28	65, 81, 89, 94	0
41	2j	96/105 (91%)	1.64	26 (27%) 1 1	80, 90, 95, 100	0
42	1k	114/129 (88%)	0.19	4 (3%) 47 40	51, 70, 80, 85	0
42	2k	114/129 (88%)	0.42	7 (6%) 27 22	65, 80, 87, 91	0
43	1l	121/132 (91%)	0.30	7 (5%) 29 24	52, 63, 73, 78	0
43	2l	121/132 (91%)	0.67	9 (7%) 20 18	62, 73, 79, 88	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	123/126 (97%)	0.35	7 (5%) 29 24	62, 74, 81, 100	0
44	2m	122/126 (96%)	1.69	32 (26%) 1 1	77, 85, 90, 99	0
45	1n	60/61 (98%)	0.75	4 (6%) 24 20	67, 74, 81, 85	0
45	2n	60/61 (98%)	2.40	36 (60%) 0 0	80, 88, 92, 94	0
46	1o	88/89 (98%)	0.22	1 (1%) 78 73	56, 67, 80, 85	0
46	2o	88/89 (98%)	0.50	5 (5%) 29 24	65, 76, 84, 88	0
47	1p	82/88 (93%)	1.02	9 (10%) 10 9	65, 77, 83, 87	0
47	2p	82/88 (93%)	0.58	1 (1%) 76 71	64, 74, 83, 87	0
48	1q	99/105 (94%)	0.45	5 (5%) 33 28	56, 69, 78, 82	0
48	2q	99/105 (94%)	0.44	2 (2%) 65 57	64, 74, 82, 84	0
49	1r	68/88 (77%)	0.03	0 100 100	62, 71, 80, 82	0
49	2r	68/88 (77%)	0.35	1 (1%) 72 65	72, 80, 86, 91	0
50	1s	83/93 (89%)	0.36	2 (2%) 59 51	68, 77, 85, 91	0
50	2s	83/93 (89%)	1.60	28 (33%) 1 1	79, 88, 95, 101	0
51	1t	96/106 (90%)	0.51	5 (5%) 33 28	63, 73, 82, 85	0
51	2t	96/106 (90%)	0.35	4 (4%) 40 33	62, 73, 83, 87	0
52	1u	23/27 (85%)	0.36	1 (4%) 40 32	63, 71, 76, 81	0
52	2u	23/27 (85%)	1.54	7 (30%) 1 1	78, 83, 87, 90	0
53	1v	5/24 (20%)	0.02	0 100 100	57, 58, 84, 92	0
53	2v	8/24 (33%)	1.09	4 (50%) 0 0	78, 89, 99, 101	0
54	1x	72/77 (93%)	-0.53	0 100 100	37, 65, 79, 91	0
54	2x	72/77 (93%)	-0.28	1 (1%) 73 67	52, 79, 89, 95	0
All	All	20644/21444 (96%)	0.10	740 (3%) 46 38	26, 68, 91, 114	0

The worst 5 of 740 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
22	10	6	GLY	11.3
44	2m	124	PRO	11.3
22	10	8	GLY	11.3
22	10	7	LEU	10.3
44	2m	123	ALA	10.2

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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
1	5MU	2A	1915	21/22	0.78	0.10	72,80,88,102	0
32	PSU	2a	516	20/21	0.83	0.11	79,85,91,93	0
54	PSU	2x	55	20/21	0.85	0.09	66,80,85,87	0
54	4SU	2x	8	20/21	0.87	0.08	77,83,89,91	0
32	2MG	2a	1207	24/25	0.87	0.10	81,86,90,105	0
54	PSU	1x	55	20/21	0.90	0.09	55,62,72,74	0
32	M2G	2a	966	25/26	0.90	0.14	66,74,88,97	0
54	5MU	2x	54	21/22	0.90	0.08	69,78,85,90	0
32	5MC	2a	967	21/22	0.90	0.14	70,75,82,88	0
32	PSU	1a	516	20/21	0.91	0.08	68,75,80,81	0
1	5MU	1A	1915	21/22	0.91	0.09	59,70,77,80	0
54	5MU	1x	54	21/22	0.92	0.09	54,68,75,84	0
32	5MC	2a	1400	21/22	0.92	0.11	73,77,82,89	0
32	G7M	2a	527	24/25	0.92	0.12	74,81,86,89	0
54	5MC	2x	32	21/22	0.92	0.10	74,78,80,81	0
1	PSU	1A	1911	20/21	0.92	0.11	45,59,64,66	0
43	0TD	1l	92	10/11	0.92	0.12	61,68,72,75	0
54	5MC	1x	32	21/22	0.93	0.10	55,61,67,70	0
32	2MG	1a	1207	24/25	0.93	0.07	67,77,80,86	0
1	OMC	2A	1920	21/22	0.93	0.09	61,69,75,80	0
32	4OC	2a	1402	22/23	0.93	0.11	70,74,80,85	0
1	PSU	1A	1917	20/21	0.94	0.10	52,63,66,67	0
1	PSU	2A	1911	20/21	0.94	0.07	60,72,78,80	0
54	4SU	1x	8	20/21	0.94	0.07	58,65,73,75	0
1	PSU	2A	1917	20/21	0.94	0.07	63,74,87,87	0
32	M2G	1a	966	25/26	0.95	0.11	50,59,63,66	0
32	5MC	2a	1407	21/22	0.95	0.08	59,68,72,76	0
43	0TD	2l	92	10/11	0.95	0.10	69,74,78,91	0
1	OMC	1A	1920	21/22	0.95	0.12	48,58,63,66	0
1	5MC	2A	1962	21/22	0.95	0.09	53,57,63,66	0
1	PSU	2A	2605	20/21	0.95	0.10	39,47,50,50	0
32	G7M	1a	527	24/25	0.95	0.09	53,60,66,70	0
32	5MC	2a	1404	21/22	0.96	0.07	63,70,74,75	0
32	4OC	1a	1402	22/23	0.96	0.09	53,59,66,72	0
32	UR3	2a	1498	21/22	0.96	0.07	57,69,74,78	0
32	MA6	2a	1518	24/25	0.96	0.09	62,67,72,74	0
32	5MC	1a	1404	21/22	0.96	0.09	43,50,54,59	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
1	5MC	2A	1942	21/22	0.96	0.08	42,56,62,64	0
32	UR3	1a	1498	21/22	0.96	0.08	37,47,51,53	0
32	5MC	1a	967	21/22	0.96	0.10	49,61,66,69	0
1	5MC	1A	1942	21/22	0.96	0.08	40,44,50,51	0
54	8AN	2x	76	22/23	0.96	0.09	49,54,58,61	0
1	5MU	1A	1939	21/22	0.97	0.08	29,42,44,46	0
1	5MC	1A	1962	21/22	0.97	0.08	37,45,52,56	0
32	5MC	1a	1407	21/22	0.97	0.09	47,54,60,63	0
32	MA6	2a	1519	24/25	0.97	0.09	64,70,74,77	0
1	OMG	1A	2251	24/25	0.97	0.09	26,34,38,40	0
32	MA6	1a	1519	24/25	0.97	0.11	42,48,51,53	0
1	2MA	1A	2503	23/24	0.97	0.08	27,34,38,40	0
1	PSU	1A	2605	20/21	0.97	0.08	29,35,39,40	0
32	5MC	1a	1400	21/22	0.97	0.08	50,59,61,63	0
1	2MA	2A	2503	23/24	0.97	0.08	38,43,47,51	0
32	MA6	1a	1518	24/25	0.98	0.08	36,48,50,53	0
54	8AN	1x	76	22/23	0.98	0.07	34,38,45,46	0
1	OMG	2A	2251	24/25	0.98	0.07	39,50,53,55	0
1	OMU	1A	2552	21/22	0.98	0.08	30,39,44,47	0
1	OMU	2A	2552	21/22	0.98	0.06	39,47,53,54	0
1	5MU	2A	1939	21/22	0.98	0.06	38,46,50,54	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
55	MG	2A	3248	1/1	0.09	0.31	93,93,93,93	0
55	MG	2A	3656	1/1	0.17	0.14	98,98,98,98	0
55	MG	1A	3601	1/1	0.39	0.08	96,96,96,96	0
55	MG	2A	3472	1/1	0.41	0.15	92,92,92,92	0
55	MG	1a	1740	1/1	0.41	0.28	86,86,86,86	0
55	MG	2v	101	1/1	0.41	0.41	90,90,90,90	0
55	MG	1Z	302	1/1	0.43	0.12	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
55	MG	2A	3189	1/1	0.43	0.20	87,87,87,87	0
55	MG	2a	3053	1/1	0.50	0.38	92,92,92,92	0
55	MG	2A	3095	1/1	0.53	0.22	73,73,73,73	0
55	MG	1a	1640	1/1	0.55	0.33	91,91,91,91	0
55	MG	2a	3031	1/1	0.55	0.32	89,89,89,89	0
55	MG	2A	3180	1/1	0.56	0.21	80,80,80,80	0
55	MG	2A	3185	1/1	0.56	0.41	79,79,79,79	0
55	MG	1a	1750	1/1	0.56	0.32	83,83,83,83	0
55	MG	2a	3100	1/1	0.57	0.42	81,81,81,81	0
55	MG	2a	3190	1/1	0.57	0.20	96,96,96,96	0
55	MG	2a	3093	1/1	0.57	0.23	84,84,84,84	0
55	MG	2a	3170	1/1	0.58	0.18	92,92,92,92	0
55	MG	1x	108	1/1	0.58	0.10	85,85,85,85	0
55	MG	2a	3135	1/1	0.58	0.12	97,97,97,97	0
55	MG	2A	3020	1/1	0.59	0.32	73,73,73,73	0
55	MG	2A	3673	1/1	0.59	0.30	84,84,84,84	0
55	MG	2A	3270	1/1	0.59	0.17	85,85,85,85	0
55	MG	2A	3335	1/1	0.59	0.19	82,82,82,82	0
55	MG	2A	3243	1/1	0.59	0.60	83,83,83,83	0
55	MG	1A	3438	1/1	0.60	0.15	67,67,67,67	0
55	MG	2a	3021	1/1	0.60	0.32	86,86,86,86	0
55	MG	2A	3474	1/1	0.60	0.10	89,89,89,89	0
55	MG	2A	3529	1/1	0.60	0.22	70,70,70,70	0
55	MG	2a	3216	1/1	0.60	0.23	81,81,81,81	0
55	MG	2A	3266	1/1	0.60	0.25	82,82,82,82	0
55	MG	1A	3599	1/1	0.61	0.44	83,83,83,83	0
55	MG	1a	1672	1/1	0.61	0.30	83,83,83,83	0
55	MG	2a	3113	1/1	0.61	0.22	86,86,86,86	0
55	MG	2a	3002	1/1	0.61	0.22	79,79,79,79	0
55	MG	1a	1745	1/1	0.62	0.27	94,94,94,94	0
55	MG	2A	3094	1/1	0.62	0.31	86,86,86,86	0
55	MG	2a	3211	1/1	0.62	0.18	79,79,79,79	0
55	MG	2a	3129	1/1	0.62	0.28	88,88,88,88	0
55	MG	2a	3022	1/1	0.62	0.34	95,95,95,95	0
55	MG	2A	3194	1/1	0.63	0.18	64,64,64,64	0
55	MG	1a	1728	1/1	0.63	0.27	76,76,76,76	0
55	MG	2a	3118	1/1	0.64	0.18	72,72,72,72	0
55	MG	1A	3654	1/1	0.64	0.21	85,85,85,85	0
55	MG	2A	3330	1/1	0.64	0.25	78,78,78,78	0
55	MG	2a	3052	1/1	0.64	0.26	90,90,90,90	0
55	MG	2A	3333	1/1	0.64	0.33	81,81,81,81	0
55	MG	2a	3198	1/1	0.64	0.23	84,84,84,84	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1a	1660	1/1	0.64	0.28	83,83,83,83	0
55	MG	2A	3452	1/1	0.64	0.64	74,74,74,74	0
55	MG	1A	3272	1/1	0.64	0.38	80,80,80,80	0
55	MG	2a	3209	1/1	0.65	0.31	90,90,90,90	0
55	MG	2a	3108	1/1	0.65	0.51	76,76,76,76	0
55	MG	2A	3326	1/1	0.66	0.14	76,76,76,76	0
55	MG	2a	3155	1/1	0.66	0.08	86,86,86,86	0
55	MG	2a	3099	1/1	0.66	0.12	82,82,82,82	0
55	MG	1a	1718	1/1	0.66	0.13	83,83,83,83	0
55	MG	2A	3073	1/1	0.66	0.18	60,60,60,60	0
55	MG	1A	3850	1/1	0.66	0.28	72,72,72,72	0
55	MG	2A	3336	1/1	0.66	0.23	70,70,70,70	0
55	MG	2a	3125	1/1	0.66	0.26	96,96,96,96	0
55	MG	2A	3348	1/1	0.66	0.18	89,89,89,89	0
55	MG	2A	3322	1/1	0.67	0.14	81,81,81,81	0
55	MG	2a	3215	1/1	0.67	0.25	82,82,82,82	0
55	MG	1B	226	1/1	0.68	0.24	85,85,85,85	0
55	MG	2A	3569	1/1	0.68	0.18	73,73,73,73	0
55	MG	1A	3797	1/1	0.68	0.16	56,56,56,56	0
55	MG	2a	3050	1/1	0.68	0.16	86,86,86,86	0
55	MG	2A	3060	1/1	0.68	0.14	87,87,87,87	0
55	MG	2A	3679	1/1	0.68	0.21	65,65,65,65	0
55	MG	2A	3748	1/1	0.68	0.13	56,56,56,56	0
55	MG	2A	3258	1/1	0.68	0.22	78,78,78,78	0
55	MG	1A	3410	1/1	0.69	0.19	67,67,67,67	0
55	MG	2A	3320	1/1	0.69	0.25	87,87,87,87	0
55	MG	2B	220	1/1	0.69	0.31	78,78,78,78	0
55	MG	1a	1637	1/1	0.69	0.20	80,80,80,80	0
55	MG	1A	3820	1/1	0.69	0.22	57,57,57,57	0
55	MG	2j	201	1/1	0.69	0.20	90,90,90,90	0
55	MG	2a	3068	1/1	0.69	0.26	73,73,73,73	0
55	MG	2a	3019	1/1	0.70	0.14	82,82,82,82	0
55	MG	2A	3429	1/1	0.70	0.27	83,83,83,83	0
55	MG	2A	3723	1/1	0.70	0.20	73,73,73,73	0
55	MG	2a	3097	1/1	0.70	0.33	75,75,75,75	0
55	MG	1A	4010	1/1	0.70	0.09	96,96,96,96	0
55	MG	1a	1709	1/1	0.70	0.22	66,66,66,66	0
55	MG	2a	3159	1/1	0.70	0.21	80,80,80,80	0
55	MG	1A	3084	1/1	0.70	0.35	49,49,49,49	0
55	MG	2A	3134	1/1	0.71	0.21	70,70,70,70	0
55	MG	2a	3191	1/1	0.71	0.25	82,82,82,82	0
55	MG	1A	3416	1/1	0.71	0.17	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
55	MG	2A	3378	1/1	0.71	0.09	76,76,76,76	0
55	MG	2a	3134	1/1	0.71	0.44	72,72,72,72	0
55	MG	14	101	1/1	0.71	0.22	74,74,74,74	0
55	MG	2A	3577	1/1	0.71	0.17	75,75,75,75	0
55	MG	1t	201	1/1	0.71	0.30	71,71,71,71	0
55	MG	2a	3008	1/1	0.71	0.28	86,86,86,86	0
55	MG	2A	3159	1/1	0.72	0.24	85,85,85,85	0
55	MG	2a	3175	1/1	0.72	0.30	75,75,75,75	0
55	MG	2A	3163	1/1	0.72	0.38	74,74,74,74	0
55	MG	1A	4037	1/1	0.72	0.24	68,68,68,68	0
55	MG	1B	221	1/1	0.72	0.30	70,70,70,70	0
55	MG	1A	3236	1/1	0.72	0.11	82,82,82,82	0
55	MG	2F	302	1/1	0.72	0.15	70,70,70,70	0
55	MG	2R	202	1/1	0.72	0.16	75,75,75,75	0
55	MG	1U	203	1/1	0.72	0.14	73,73,73,73	0
55	MG	2A	3236	1/1	0.72	0.15	92,92,92,92	0
55	MG	2A	3402	1/1	0.72	0.31	65,65,65,65	0
55	MG	2a	3132	1/1	0.73	0.14	81,81,81,81	0
55	MG	2A	3845	1/1	0.73	0.17	77,77,77,77	0
55	MG	2A	3649	1/1	0.73	0.20	82,82,82,82	0
55	MG	2a	3110	1/1	0.73	0.14	80,80,80,80	0
55	MG	2a	3081	1/1	0.73	0.25	73,73,73,73	0
55	MG	2a	3037	1/1	0.73	0.13	96,96,96,96	0
55	MG	2A	3089	1/1	0.73	0.20	77,77,77,77	0
55	MG	2A	3811	1/1	0.73	0.25	65,65,65,65	0
55	MG	2A	3319	1/1	0.74	0.14	74,74,74,74	0
55	MG	2a	3085	1/1	0.74	0.24	75,75,75,75	0
55	MG	2A	3578	1/1	0.74	0.24	82,82,82,82	0
55	MG	2A	3616	1/1	0.74	0.24	77,77,77,77	0
55	MG	2A	3356	1/1	0.74	0.22	63,63,63,63	0
55	MG	2a	3187	1/1	0.74	0.14	66,66,66,66	0
55	MG	1B	210	1/1	0.74	0.19	67,67,67,67	0
55	MG	1A	3422	1/1	0.74	0.15	74,74,74,74	0
55	MG	2A	3059	1/1	0.74	0.12	76,76,76,76	0
55	MG	1A	3130	1/1	0.74	0.17	65,65,65,65	0
55	MG	2A	3332	1/1	0.74	0.33	75,75,75,75	0
55	MG	2A	3780	1/1	0.74	0.28	79,79,79,79	0
55	MG	1A	3698	1/1	0.74	0.17	70,70,70,70	0
55	MG	2d	302	1/1	0.74	0.25	81,81,81,81	0
55	MG	1A	3298	1/1	0.74	0.23	72,72,72,72	0
55	MG	13	101	1/1	0.74	0.13	71,71,71,71	0
55	MG	2A	3098	1/1	0.75	0.18	60,60,60,60	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	2a	3064	1/1	0.75	0.25	77,77,77,77	0
55	MG	1A	3354	1/1	0.75	0.19	80,80,80,80	0
55	MG	2A	3151	1/1	0.75	0.25	68,68,68,68	0
55	MG	2a	3207	1/1	0.75	0.38	80,80,80,80	0
55	MG	2A	3746	1/1	0.75	0.16	65,65,65,65	0
55	MG	2A	3374	1/1	0.75	0.11	84,84,84,84	0
55	MG	1A	3891	1/1	0.75	0.24	68,68,68,68	0
55	MG	2A	3384	1/1	0.75	0.22	77,77,77,77	0
55	MG	2A	3235	1/1	0.75	0.17	80,80,80,80	0
55	MG	2A	3294	1/1	0.75	0.11	67,67,67,67	0
55	MG	2q	203	1/1	0.75	0.26	72,72,72,72	0
55	MG	1A	3586	1/1	0.75	0.38	51,51,51,51	0
55	MG	2A	3218	1/1	0.76	0.14	62,62,62,62	0
55	MG	2A	3487	1/1	0.76	0.31	64,64,64,64	0
55	MG	2A	3521	1/1	0.76	0.15	69,69,69,69	0
55	MG	2A	3232	1/1	0.76	0.41	77,77,77,77	0
55	MG	1B	229	1/1	0.76	0.23	76,76,76,76	0
55	MG	1A	3510	1/1	0.76	0.17	67,67,67,67	0
55	MG	1x	102	1/1	0.76	0.10	81,81,81,81	0
55	MG	1a	1697	1/1	0.76	0.18	75,75,75,75	0
55	MG	2A	3157	1/1	0.76	0.10	86,86,86,86	0
55	MG	1A	3450	1/1	0.76	0.14	61,61,61,61	0
55	MG	2A	3359	1/1	0.76	0.31	60,60,60,60	0
55	MG	2a	3062	1/1	0.76	0.14	76,76,76,76	0
55	MG	2A	3369	1/1	0.76	0.30	70,70,70,70	0
55	MG	1A	3812	1/1	0.76	0.10	75,75,75,75	0
55	MG	1A	3602	1/1	0.76	0.23	79,79,79,79	0
55	MG	2A	3383	1/1	0.76	0.36	75,75,75,75	0
55	MG	2A	3757	1/1	0.76	0.11	72,72,72,72	0
55	MG	2A	3301	1/1	0.76	0.13	64,64,64,64	0
55	MG	2A	3317	1/1	0.76	0.11	77,77,77,77	0
55	MG	2A	3826	1/1	0.76	0.23	75,75,75,75	0
55	MG	1A	3594	1/1	0.76	0.28	70,70,70,70	0
55	MG	1a	1744	1/1	0.76	0.24	72,72,72,72	0
55	MG	1A	3885	1/1	0.76	0.42	54,54,54,54	0
55	MG	2x	106	1/1	0.76	0.27	66,66,66,66	0
55	MG	2A	3767	1/1	0.77	0.11	78,78,78,78	0
55	MG	2a	3038	1/1	0.77	0.28	73,73,73,73	0
55	MG	2a	3042	1/1	0.77	0.15	81,81,81,81	0
55	MG	2A	3070	1/1	0.77	0.34	84,84,84,84	0
55	MG	1A	3486	1/1	0.77	0.40	70,70,70,70	0
55	MG	2a	3138	1/1	0.77	0.26	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
55	MG	1A	3372	1/1	0.77	0.17	54,54,54,54	0
55	MG	2A	3269	1/1	0.77	0.09	83,83,83,83	0
55	MG	2A	3210	1/1	0.77	0.24	70,70,70,70	0
55	MG	2A	3271	1/1	0.77	0.11	74,74,74,74	0
55	MG	2a	3077	1/1	0.77	0.38	75,75,75,75	0
55	MG	2a	3188	1/1	0.77	0.12	80,80,80,80	0
55	MG	1A	3534	1/1	0.77	0.32	60,60,60,60	0
55	MG	20	101	1/1	0.77	0.20	71,71,71,71	0
55	MG	2A	3464	1/1	0.77	0.17	74,74,74,74	0
55	MG	1A	4089	1/1	0.77	0.16	70,70,70,70	0
55	MG	2A	3177	1/1	0.77	0.21	74,74,74,74	0
55	MG	2A	3480	1/1	0.77	0.18	70,70,70,70	0
55	MG	2a	3101	1/1	0.77	0.29	80,80,80,80	0
55	MG	2a	3107	1/1	0.77	0.28	71,71,71,71	0
55	MG	1A	3559	1/1	0.77	0.24	71,71,71,71	0
55	MG	2a	3025	1/1	0.77	0.18	64,64,64,64	0
55	MG	2A	3183	1/1	0.77	0.15	62,62,62,62	0
55	MG	2a	3036	1/1	0.77	0.34	83,83,83,83	0
55	MG	2a	3119	1/1	0.77	0.27	75,75,75,75	0
55	MG	1A	3595	1/1	0.78	0.28	72,72,72,72	0
55	MG	1a	1805	1/1	0.78	0.29	81,81,81,81	0
55	MG	2a	3017	1/1	0.78	0.25	78,78,78,78	0
55	MG	2a	3150	1/1	0.78	0.15	99,99,99,99	0
55	MG	2a	3083	1/1	0.78	0.29	72,72,72,72	0
55	MG	1a	1806	1/1	0.78	0.17	77,77,77,77	0
55	MG	2A	3078	1/1	0.78	0.25	67,67,67,67	0
55	MG	2a	3096	1/1	0.78	0.23	79,79,79,79	0
55	MG	2A	3486	1/1	0.78	0.20	73,73,73,73	0
55	MG	2a	3024	1/1	0.78	0.27	75,75,75,75	0
55	MG	2A	3237	1/1	0.78	0.29	74,74,74,74	0
55	MG	1p	101	1/1	0.78	0.30	66,66,66,66	0
55	MG	1P	207	1/1	0.78	0.30	58,58,58,58	0
55	MG	2A	3256	1/1	0.78	0.19	70,70,70,70	0
55	MG	1A	3102	1/1	0.78	0.22	56,56,56,56	0
55	MG	1A	3474	1/1	0.78	0.44	62,62,62,62	0
55	MG	2a	3212	1/1	0.78	0.15	85,85,85,85	0
55	MG	2a	3115	1/1	0.78	0.18	79,79,79,79	0
55	MG	2B	208	1/1	0.78	0.30	73,73,73,73	0
55	MG	2a	3226	1/1	0.78	0.31	72,72,72,72	0
55	MG	2A	3598	1/1	0.78	0.34	83,83,83,83	0
55	MG	10	104	1/1	0.78	0.41	57,57,57,57	0
55	MG	2q	201	1/1	0.78	0.15	63,63,63,63	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3737	1/1	0.78	0.20	76,76,76,76	0
55	MG	2A	3461	1/1	0.78	0.22	71,71,71,71	0
55	MG	2a	3133	1/1	0.78	0.50	77,77,77,77	0
55	MG	2a	3009	1/1	0.79	0.30	81,81,81,81	0
55	MG	1a	1680	1/1	0.79	0.14	66,66,66,66	0
55	MG	2A	3710	1/1	0.79	0.10	63,63,63,63	0
55	MG	1A	3097	1/1	0.79	0.22	71,71,71,71	0
55	MG	1a	1706	1/1	0.79	0.26	69,69,69,69	0
55	MG	2A	3349	1/1	0.79	0.22	87,87,87,87	0
55	MG	2A	3291	1/1	0.79	1.24	75,75,75,75	0
55	MG	2A	3103	1/1	0.79	0.31	74,74,74,74	0
55	MG	2a	3194	1/1	0.79	0.15	92,92,92,92	0
55	MG	1A	3759	1/1	0.79	0.27	58,58,58,58	0
55	MG	1A	3908	1/1	0.79	0.12	58,58,58,58	0
55	MG	2A	3544	1/1	0.79	0.12	56,56,56,56	0
55	MG	2A	3837	1/1	0.79	0.11	74,74,74,74	0
55	MG	2a	3045	1/1	0.79	0.16	80,80,80,80	0
55	MG	18	104	1/1	0.79	0.33	62,62,62,62	0
55	MG	2B	206	1/1	0.79	0.21	75,75,75,75	0
55	MG	1A	4009	1/1	0.79	0.09	79,79,79,79	0
55	MG	1A	3842	1/1	0.79	0.45	77,77,77,77	0
55	MG	1A	3301	1/1	0.79	0.35	65,65,65,65	0
55	MG	2l	203	1/1	0.79	0.14	69,69,69,69	0
55	MG	2A	3419	1/1	0.79	0.41	70,70,70,70	0
55	MG	1A	3870	1/1	0.79	0.79	51,51,51,51	0
55	MG	1a	1796	1/1	0.79	0.21	80,80,80,80	0
55	MG	2v	102	1/1	0.79	0.19	76,76,76,76	0
55	MG	1a	1679	1/1	0.79	0.32	80,80,80,80	0
55	MG	1A	3909	1/1	0.80	0.61	58,58,58,58	0
55	MG	2a	3142	1/1	0.80	0.26	55,55,55,55	0
55	MG	2a	3075	1/1	0.80	0.16	73,73,73,73	0
55	MG	2A	3409	1/1	0.80	0.16	72,72,72,72	0
55	MG	2A	3608	1/1	0.80	0.18	65,65,65,65	0
55	MG	2A	3250	1/1	0.80	0.14	68,68,68,68	0
55	MG	1A	3923	1/1	0.80	0.55	60,60,60,60	0
55	MG	2A	3652	1/1	0.80	0.19	89,89,89,89	0
55	MG	2A	3443	1/1	0.80	0.22	72,72,72,72	0
55	MG	1A	3140	1/1	0.80	0.23	52,52,52,52	0
55	MG	2A	3118	1/1	0.80	0.38	65,65,65,65	0
55	MG	1A	3497	1/1	0.80	0.24	59,59,59,59	0
55	MG	1a	1601	1/1	0.80	0.10	67,67,67,67	0
55	MG	2a	3199	1/1	0.80	0.22	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
55	MG	2a	3206	1/1	0.80	0.29	70,70,70,70	0
55	MG	2a	3103	1/1	0.80	0.21	75,75,75,75	0
55	MG	2A	3231	1/1	0.80	0.27	70,70,70,70	0
55	MG	2a	3026	1/1	0.80	0.19	79,79,79,79	0
55	MG	2A	3475	1/1	0.80	0.22	75,75,75,75	0
55	MG	2A	3272	1/1	0.80	0.24	78,78,78,78	0
55	MG	1A	4030	1/1	0.80	0.11	64,64,64,64	0
55	MG	1A	3606	1/1	0.80	0.28	62,62,62,62	0
55	MG	2A	3493	1/1	0.80	0.09	67,67,67,67	0
55	MG	2a	3121	1/1	0.80	0.33	72,72,72,72	0
55	MG	2A	3515	1/1	0.80	0.14	61,61,61,61	0
55	MG	2A	3083	1/1	0.80	0.15	58,58,58,58	0
55	MG	1A	3157	1/1	0.80	0.09	55,55,55,55	0
55	MG	1a	1671	1/1	0.80	0.30	81,81,81,81	0
55	MG	2A	3246	1/1	0.80	0.26	59,59,59,59	0
55	MG	2A	3321	1/1	0.80	0.18	82,82,82,82	0
55	MG	2B	207	1/1	0.81	0.21	66,66,66,66	0
55	MG	2a	3141	1/1	0.81	0.17	84,84,84,84	0
55	MG	1V	208	1/1	0.81	0.13	69,69,69,69	0
55	MG	1a	1651	1/1	0.81	0.21	60,60,60,60	0
55	MG	1A	4096	1/1	0.81	0.35	66,66,66,66	0
55	MG	10	101	1/1	0.81	0.15	51,51,51,51	0
55	MG	2A	3187	1/1	0.81	0.20	72,72,72,72	0
55	MG	1A	3471	1/1	0.81	0.26	62,62,62,62	0
55	MG	12	101	1/1	0.81	0.13	62,62,62,62	0
55	MG	1A	4026	1/1	0.81	0.14	83,83,83,83	0
55	MG	1a	1694	1/1	0.81	0.22	71,71,71,71	0
55	MG	2A	3219	1/1	0.81	0.23	70,70,70,70	0
55	MG	2A	3220	1/1	0.81	0.15	84,84,84,84	0
55	MG	2A	3666	1/1	0.81	0.15	69,69,69,69	0
55	MG	2a	3105	1/1	0.81	0.28	72,72,72,72	0
55	MG	1a	1807	1/1	0.81	0.11	61,61,61,61	0
55	MG	2A	3097	1/1	0.81	0.13	64,64,64,64	0
55	MG	2a	3208	1/1	0.81	0.11	76,76,76,76	0
55	MG	1A	3257	1/1	0.81	0.23	77,77,77,77	0
55	MG	2a	3112	1/1	0.81	0.22	69,69,69,69	0
55	MG	2A	3465	1/1	0.81	0.13	68,68,68,68	0
55	MG	1A	3987	1/1	0.81	0.25	76,76,76,76	0
55	MG	1A	4060	1/1	0.81	0.19	64,64,64,64	0
55	MG	1a	1715	1/1	0.81	0.32	82,82,82,82	0
55	MG	1A	3429	1/1	0.81	0.17	60,60,60,60	0
55	MG	2A	3027	1/1	0.81	0.18	51,51,51,51	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	2A	3341	1/1	0.81	0.08	76,76,76,76	0
55	MG	2a	3130	1/1	0.81	0.30	76,76,76,76	0
55	MG	2A	3489	1/1	0.81	0.34	58,58,58,58	0
55	MG	2A	3158	1/1	0.81	0.20	81,81,81,81	0
55	MG	2A	3033	1/1	0.81	0.16	69,69,69,69	0
55	MG	2x	101	1/1	0.81	0.12	66,66,66,66	0
55	MG	2A	3036	1/1	0.81	0.37	78,78,78,78	0
55	MG	1A	4075	1/1	0.82	0.27	73,73,73,73	0
55	MG	2A	3677	1/1	0.82	0.19	78,78,78,78	0
55	MG	2A	3168	1/1	0.82	0.16	53,53,53,53	0
55	MG	2A	3681	1/1	0.82	0.13	60,60,60,60	0
55	MG	2A	3690	1/1	0.82	0.07	82,82,82,82	0
55	MG	2a	3039	1/1	0.82	0.27	77,77,77,77	0
55	MG	2A	3692	1/1	0.82	0.20	69,69,69,69	0
55	MG	1A	3961	1/1	0.82	0.21	70,70,70,70	0
55	MG	2a	3049	1/1	0.82	0.34	75,75,75,75	0
55	MG	2a	3143	1/1	0.82	0.45	71,71,71,71	0
55	MG	2A	3716	1/1	0.82	0.10	65,65,65,65	0
55	MG	1A	3983	1/1	0.82	0.27	75,75,75,75	0
55	MG	1B	209	1/1	0.82	0.12	58,58,58,58	0
55	MG	1A	3448	1/1	0.82	0.16	71,71,71,71	0
55	MG	2A	3477	1/1	0.82	0.29	56,56,56,56	0
55	MG	1A	3604	1/1	0.82	0.15	82,82,82,82	0
55	MG	2a	3073	1/1	0.82	0.27	72,72,72,72	0
55	MG	1A	3395	1/1	0.82	0.20	68,68,68,68	0
55	MG	1A	3453	1/1	0.82	0.22	78,78,78,78	0
55	MG	2A	3101	1/1	0.82	0.24	72,72,72,72	0
55	MG	2A	3353	1/1	0.82	0.32	70,70,70,70	0
55	MG	1a	1606	1/1	0.82	0.20	73,73,73,73	0
55	MG	2A	3281	1/1	0.82	0.30	73,73,73,73	0
55	MG	2A	3282	1/1	0.82	0.22	53,53,53,53	0
55	MG	1a	1614	1/1	0.82	0.21	61,61,61,61	0
55	MG	2B	212	1/1	0.82	0.17	82,82,82,82	0
55	MG	2A	3552	1/1	0.82	0.10	64,64,64,64	0
55	MG	2A	3128	1/1	0.82	0.27	67,67,67,67	0
55	MG	2G	201	1/1	0.82	0.11	68,68,68,68	0
55	MG	1E	312	1/1	0.82	0.18	69,69,69,69	0
55	MG	2A	3304	1/1	0.82	0.21	73,73,73,73	0
55	MG	2A	3305	1/1	0.82	0.15	69,69,69,69	0
55	MG	2A	3316	1/1	0.82	0.09	78,78,78,78	0
55	MG	1A	3230	1/1	0.82	0.53	44,44,44,44	0
55	MG	2A	3618	1/1	0.82	0.28	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
55	MG	1A	3060	1/1	0.82	0.21	55,55,55,55	0
55	MG	1A	3946	1/1	0.82	0.29	64,64,64,64	0
55	MG	2A	3446	1/1	0.82	0.13	79,79,79,79	0
55	MG	2A	3657	1/1	0.82	0.26	85,85,85,85	0
55	MG	1a	1670	1/1	0.82	0.32	67,67,67,67	0
55	MG	2A	3261	1/1	0.83	0.25	74,74,74,74	0
55	MG	2a	3114	1/1	0.83	0.19	81,81,81,81	0
55	MG	2A	3596	1/1	0.83	0.09	71,71,71,71	0
55	MG	2A	3360	1/1	0.83	0.34	87,87,87,87	0
55	MG	1A	3264	1/1	0.83	0.27	66,66,66,66	0
55	MG	2A	3162	1/1	0.83	0.17	64,64,64,64	0
55	MG	1A	3099	1/1	0.83	0.16	52,52,52,52	0
55	MG	2A	3645	1/1	0.83	0.27	72,72,72,72	0
55	MG	2A	3379	1/1	0.83	0.22	64,64,64,64	0
55	MG	1B	206	1/1	0.83	0.39	58,58,58,58	0
55	MG	2A	3174	1/1	0.83	0.10	65,65,65,65	0
55	MG	2A	3393	1/1	0.83	0.28	54,54,54,54	0
55	MG	2A	3028	1/1	0.83	0.18	57,57,57,57	0
55	MG	2A	3672	1/1	0.83	0.24	76,76,76,76	0
55	MG	1l	102	1/1	0.83	0.22	67,67,67,67	0
55	MG	2A	3181	1/1	0.83	0.25	87,87,87,87	0
55	MG	1A	3558	1/1	0.83	0.18	44,44,44,44	0
55	MG	2a	3040	1/1	0.83	0.27	69,69,69,69	0
55	MG	2a	3041	1/1	0.83	0.10	57,57,57,57	0
55	MG	1a	1698	1/1	0.83	0.36	70,70,70,70	0
55	MG	1A	3916	1/1	0.83	0.44	52,52,52,52	0
55	MG	2A	3449	1/1	0.83	0.17	76,76,76,76	0
55	MG	2A	3708	1/1	0.83	0.13	72,72,72,72	0
55	MG	1A	4022	1/1	0.83	0.10	74,74,74,74	0
55	MG	2A	3308	1/1	0.83	0.18	60,60,60,60	0
55	MG	1A	3289	1/1	0.83	0.22	44,44,44,44	0
55	MG	2A	3734	1/1	0.83	0.18	72,72,72,72	0
55	MG	1A	3581	1/1	0.83	0.20	43,43,43,43	0
55	MG	1a	1602	1/1	0.83	0.19	70,70,70,70	0
55	MG	2a	3204	1/1	0.83	0.22	70,70,70,70	0
55	MG	2a	3205	1/1	0.83	0.17	78,78,78,78	0
55	MG	1A	3111	1/1	0.83	0.51	48,48,48,48	0
55	MG	1G	203	1/1	0.83	0.07	63,63,63,63	0
55	MG	2A	3228	1/1	0.83	0.15	58,58,58,58	0
55	MG	1a	1630	1/1	0.83	0.12	69,69,69,69	0
55	MG	2a	3210	1/1	0.83	0.08	73,73,73,73	0
55	MG	1I	201	1/1	0.83	0.24	85,85,85,85	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1O	204	1/1	0.83	0.15	56,56,56,56	0
55	MG	1a	1649	1/1	0.83	0.27	59,59,59,59	0
55	MG	1A	3972	1/1	0.83	0.21	58,58,58,58	0
55	MG	1S	203	1/1	0.83	0.11	72,72,72,72	0
55	MG	1a	1813	1/1	0.83	0.23	70,70,70,70	0
55	MG	2A	3347	1/1	0.83	0.34	59,59,59,59	0
55	MG	2B	215	1/1	0.83	0.30	66,66,66,66	0
55	MG	1d	301	1/1	0.83	0.37	75,75,75,75	0
55	MG	1a	1666	1/1	0.83	0.16	70,70,70,70	0
55	MG	2F	305	1/1	0.83	0.43	56,56,56,56	0
55	MG	1A	3980	1/1	0.83	0.13	85,85,85,85	0
55	MG	2a	3111	1/1	0.83	0.25	65,65,65,65	0
55	MG	2x	102	1/1	0.83	0.10	69,69,69,69	0
55	MG	2x	104	1/1	0.83	0.26	83,83,83,83	0
55	MG	1A	4088	1/1	0.83	0.20	75,75,75,75	0
55	MG	1a	1618	1/1	0.84	0.18	62,62,62,62	0
55	MG	2a	3006	1/1	0.84	0.27	75,75,75,75	0
55	MG	2A	3046	1/1	0.84	0.19	65,65,65,65	0
55	MG	2A	3176	1/1	0.84	0.25	69,69,69,69	0
55	MG	1A	3059	1/1	0.84	0.14	56,56,56,56	0
55	MG	1a	1725	1/1	0.84	0.28	64,64,64,64	0
55	MG	1a	1632	1/1	0.84	0.15	67,67,67,67	0
55	MG	1A	3145	1/1	0.84	0.18	75,75,75,75	0
55	MG	2A	3284	1/1	0.84	0.22	77,77,77,77	0
55	MG	2A	3286	1/1	0.84	0.19	79,79,79,79	0
55	MG	2A	3076	1/1	0.84	0.45	69,69,69,69	0
55	MG	2A	3416	1/1	0.84	0.27	64,64,64,64	0
55	MG	2A	3675	1/1	0.84	0.11	61,61,61,61	0
55	MG	1A	3954	1/1	0.84	0.13	71,71,71,71	0
55	MG	1a	1644	1/1	0.84	0.38	72,72,72,72	0
55	MG	2A	3431	1/1	0.84	0.25	76,76,76,76	0
55	MG	1A	3371	1/1	0.84	0.25	53,53,53,53	0
55	MG	2A	3691	1/1	0.84	0.08	86,86,86,86	0
55	MG	2A	3197	1/1	0.84	0.14	55,55,55,55	0
55	MG	2a	3182	1/1	0.84	0.24	82,82,82,82	0
55	MG	2a	3184	1/1	0.84	0.17	62,62,62,62	0
55	MG	1a	1770	1/1	0.84	0.09	66,66,66,66	0
55	MG	2A	3310	1/1	0.84	0.19	67,67,67,67	0
55	MG	2a	3189	1/1	0.84	0.15	76,76,76,76	0
55	MG	2A	3215	1/1	0.84	0.27	50,50,50,50	0
55	MG	1A	3062	1/1	0.84	0.28	63,63,63,63	0
55	MG	2A	3730	1/1	0.84	0.10	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
55	MG	1A	3378	1/1	0.84	0.10	56,56,56,56	0
55	MG	1a	1661	1/1	0.84	0.15	66,66,66,66	0
55	MG	1A	3379	1/1	0.84	0.28	71,71,71,71	0
55	MG	1l	101	1/1	0.84	0.74	56,56,56,56	0
55	MG	1A	3168	1/1	0.84	0.41	54,54,54,54	0
55	MG	2A	3479	1/1	0.84	0.26	62,62,62,62	0
55	MG	1A	3998	1/1	0.84	0.14	57,57,57,57	0
55	MG	1A	3181	1/1	0.84	0.21	55,55,55,55	0
55	MG	2A	3140	1/1	0.84	0.27	65,65,65,65	0
55	MG	2A	3147	1/1	0.84	0.18	67,67,67,67	0
55	MG	1A	3213	1/1	0.84	0.36	67,67,67,67	0
55	MG	2a	3214	1/1	0.84	0.28	89,89,89,89	0
55	MG	1A	3417	1/1	0.84	0.21	69,69,69,69	0
55	MG	2A	3346	1/1	0.84	0.12	83,83,83,83	0
55	MG	1A	3421	1/1	0.84	0.14	69,69,69,69	0
55	MG	2A	3255	1/1	0.84	0.25	75,75,75,75	0
55	MG	2B	216	1/1	0.84	0.21	70,70,70,70	0
55	MG	2l	201	1/1	0.84	0.34	61,61,61,61	0
55	MG	1G	204	1/1	0.84	0.12	47,47,47,47	0
55	MG	2D	305	1/1	0.84	0.54	64,64,64,64	0
55	MG	2A	3351	1/1	0.84	0.19	73,73,73,73	0
55	MG	2A	3352	1/1	0.84	0.22	75,75,75,75	0
55	MG	2A	3257	1/1	0.84	0.37	77,77,77,77	0
55	MG	1A	3655	1/1	0.84	0.12	68,68,68,68	0
55	MG	2W	201	1/1	0.84	0.17	76,76,76,76	0
55	MG	1A	3228	1/1	0.84	0.24	50,50,50,50	0
55	MG	25	104	1/1	0.84	0.21	64,64,64,64	0
55	MG	1A	4090	1/1	0.85	0.20	73,73,73,73	0
55	MG	2F	307	1/1	0.85	0.13	66,66,66,66	0
55	MG	2A	3146	1/1	0.85	0.30	65,65,65,65	0
55	MG	1A	3524	1/1	0.85	0.15	64,64,64,64	0
55	MG	1A	3726	1/1	0.85	0.15	63,63,63,63	0
55	MG	2Z	301	1/1	0.85	0.23	68,68,68,68	0
55	MG	1A	3164	1/1	0.85	0.21	58,58,58,58	0
55	MG	2A	3006	1/1	0.85	0.21	63,63,63,63	0
55	MG	2A	3007	1/1	0.85	0.24	59,59,59,59	0
55	MG	2a	3003	1/1	0.85	0.24	75,75,75,75	0
55	MG	2A	3363	1/1	0.85	0.17	77,77,77,77	0
55	MG	2a	3007	1/1	0.85	0.18	73,73,73,73	0
55	MG	2A	3368	1/1	0.85	0.21	58,58,58,58	0
55	MG	2A	3262	1/1	0.85	0.11	64,64,64,64	0
55	MG	2A	3373	1/1	0.85	0.28	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
55	MG	2A	3160	1/1	0.85	0.28	62,62,62,62	0
55	MG	1A	3040	1/1	0.85	0.18	57,57,57,57	0
55	MG	2A	3026	1/1	0.85	0.15	68,68,68,68	0
55	MG	2A	3671	1/1	0.85	0.10	55,55,55,55	0
55	MG	2a	3158	1/1	0.85	0.20	73,73,73,73	0
55	MG	2A	3380	1/1	0.85	0.09	77,77,77,77	0
55	MG	1A	3760	1/1	0.85	0.11	45,45,45,45	0
55	MG	2A	3173	1/1	0.85	0.30	72,72,72,72	0
55	MG	1A	3384	1/1	0.85	0.17	52,52,52,52	0
55	MG	2A	3030	1/1	0.85	0.13	53,53,53,53	0
55	MG	1A	3394	1/1	0.85	0.10	66,66,66,66	0
55	MG	2A	3682	1/1	0.85	0.13	45,45,45,45	0
55	MG	1D	305	1/1	0.85	0.18	49,49,49,49	0
55	MG	1A	3053	1/1	0.85	0.12	51,51,51,51	0
55	MG	2A	3054	1/1	0.85	0.18	61,61,61,61	0
55	MG	2a	3043	1/1	0.85	0.14	79,79,79,79	0
55	MG	1F	301	1/1	0.85	0.73	38,38,38,38	0
55	MG	2A	3303	1/1	0.85	0.25	85,85,85,85	0
55	MG	2a	3201	1/1	0.85	0.19	83,83,83,83	0
55	MG	1a	1616	1/1	0.85	0.10	57,57,57,57	0
55	MG	2A	3069	1/1	0.85	0.16	67,67,67,67	0
55	MG	1A	3455	1/1	0.85	0.27	49,49,49,49	0
55	MG	2A	3731	1/1	0.85	0.09	87,87,87,87	0
55	MG	2A	3454	1/1	0.85	0.24	76,76,76,76	0
55	MG	1A	3460	1/1	0.85	0.80	57,57,57,57	0
55	MG	1A	3339	1/1	0.85	0.10	56,56,56,56	0
55	MG	1A	3871	1/1	0.85	0.20	79,79,79,79	0
55	MG	2A	3764	1/1	0.85	0.12	67,67,67,67	0
55	MG	1A	3340	1/1	0.85	0.34	66,66,66,66	0
55	MG	1A	3026	1/1	0.85	0.24	81,81,81,81	0
55	MG	1a	1765	1/1	0.85	0.15	64,64,64,64	0
55	MG	2A	3225	1/1	0.85	0.18	72,72,72,72	0
55	MG	1A	3096	1/1	0.85	0.19	61,61,61,61	0
55	MG	2f	201	1/1	0.85	0.15	72,72,72,72	0
55	MG	2A	3229	1/1	0.85	0.11	70,70,70,70	0
55	MG	2A	3331	1/1	0.85	0.32	73,73,73,73	0
55	MG	1A	3501	1/1	0.85	0.11	88,88,88,88	0
55	MG	1a	1803	1/1	0.85	0.15	60,60,60,60	0
55	MG	2A	3234	1/1	0.85	0.25	72,72,72,72	0
55	MG	2t	201	1/1	0.85	0.24	54,54,54,54	0
55	MG	1A	3275	1/1	0.85	0.25	55,55,55,55	0
55	MG	1Z	304	1/1	0.85	0.13	57,57,57,57	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	2B	218	1/1	0.85	0.17	82,82,82,82	0
55	MG	1a	1664	1/1	0.85	0.14	70,70,70,70	0
55	MG	1A	3521	1/1	0.85	0.17	82,82,82,82	0
55	MG	1a	1669	1/1	0.85	0.13	71,71,71,71	0
55	MG	2A	3466	1/1	0.86	0.22	60,60,60,60	0
55	MG	1A	3849	1/1	0.86	0.17	66,66,66,66	0
55	MG	2A	3324	1/1	0.86	0.30	70,70,70,70	0
55	MG	2A	3838	1/1	0.86	0.12	62,62,62,62	0
55	MG	1O	202	1/1	0.86	0.23	64,64,64,64	0
55	MG	2B	204	1/1	0.86	0.19	62,62,62,62	0
55	MG	1a	1797	1/1	0.86	0.08	87,87,87,87	0
55	MG	1A	3481	1/1	0.86	0.11	51,51,51,51	0
55	MG	1P	205	1/1	0.86	0.61	57,57,57,57	0
55	MG	1A	3482	1/1	0.86	0.10	77,77,77,77	0
55	MG	2A	3125	1/1	0.86	0.24	62,62,62,62	0
55	MG	1a	1656	1/1	0.86	0.21	64,64,64,64	0
55	MG	2A	3490	1/1	0.86	0.23	61,61,61,61	0
55	MG	1A	3034	1/1	0.86	0.37	43,43,43,43	0
55	MG	1T	201	1/1	0.86	0.11	71,71,71,71	0
55	MG	2A	3143	1/1	0.86	0.11	60,60,60,60	0
55	MG	2A	3522	1/1	0.86	0.19	60,60,60,60	0
55	MG	1A	3167	1/1	0.86	0.10	40,40,40,40	0
55	MG	1A	4044	1/1	0.86	0.17	55,55,55,55	0
55	MG	1a	1667	1/1	0.86	0.22	68,68,68,68	0
55	MG	1X	101	1/1	0.86	0.16	60,60,60,60	0
55	MG	2A	3004	1/1	0.86	0.35	70,70,70,70	0
55	MG	1A	4055	1/1	0.86	0.13	68,68,68,68	0
55	MG	1A	3890	1/1	0.86	0.17	39,39,39,39	0
55	MG	1A	3232	1/1	0.86	0.12	53,53,53,53	0
55	MG	2A	3603	1/1	0.86	0.22	76,76,76,76	0
55	MG	1A	3648	1/1	0.86	0.22	57,57,57,57	0
55	MG	1A	3433	1/1	0.86	0.15	64,64,64,64	0
55	MG	1A	3123	1/1	0.86	0.31	42,42,42,42	0
55	MG	2A	3639	1/1	0.86	0.12	56,56,56,56	0
55	MG	2a	3181	1/1	0.86	0.24	58,58,58,58	0
55	MG	2A	3641	1/1	0.86	0.17	70,70,70,70	0
55	MG	1A	3921	1/1	0.86	0.18	51,51,51,51	0
55	MG	2a	3185	1/1	0.86	0.27	56,56,56,56	0
55	MG	2A	3274	1/1	0.86	0.19	60,60,60,60	0
55	MG	2A	3377	1/1	0.86	0.11	73,73,73,73	0
55	MG	2A	3279	1/1	0.86	0.21	64,64,64,64	0
55	MG	1A	3383	1/1	0.86	0.24	62,62,62,62	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	2A	3660	1/1	0.86	0.12	75,75,75,75	0
55	MG	2A	3663	1/1	0.86	0.14	66,66,66,66	0
55	MG	1A	3311	1/1	0.86	0.17	65,65,65,65	0
55	MG	2A	3178	1/1	0.86	0.38	88,88,88,88	0
55	MG	1A	3544	1/1	0.86	0.27	61,61,61,61	0
55	MG	2A	3387	1/1	0.86	0.26	59,59,59,59	0
55	MG	2A	3392	1/1	0.86	0.23	46,46,46,46	0
55	MG	2A	3052	1/1	0.86	0.27	65,65,65,65	0
55	MG	1a	1710	1/1	0.86	0.12	71,71,71,71	0
55	MG	2A	3404	1/1	0.86	0.26	70,70,70,70	0
55	MG	2A	3406	1/1	0.86	0.40	69,69,69,69	0
55	MG	1A	3317	1/1	0.86	0.17	49,49,49,49	0
55	MG	1A	3971	1/1	0.86	0.22	82,82,82,82	0
55	MG	1A	3172	1/1	0.86	0.09	50,50,50,50	0
55	MG	1A	3151	1/1	0.86	0.55	40,40,40,40	0
55	MG	2A	3430	1/1	0.86	0.26	47,47,47,47	0
55	MG	2A	3307	1/1	0.86	0.11	72,72,72,72	0
55	MG	2a	3220	1/1	0.86	0.12	72,72,72,72	0
55	MG	2A	3438	1/1	0.86	0.57	69,69,69,69	0
55	MG	2A	3441	1/1	0.86	0.41	64,64,64,64	0
55	MG	2A	3072	1/1	0.86	0.55	55,55,55,55	0
55	MG	1A	3104	1/1	0.86	0.31	61,61,61,61	0
55	MG	2A	3313	1/1	0.86	0.29	68,68,68,68	0
55	MG	1A	3356	1/1	0.86	0.10	54,54,54,54	0
55	MG	1A	3829	1/1	0.86	0.77	48,48,48,48	0
55	MG	2a	3088	1/1	0.86	0.17	71,71,71,71	0
55	MG	2A	3761	1/1	0.86	0.19	78,78,78,78	0
55	MG	1A	3480	1/1	0.86	0.19	45,45,45,45	0
55	MG	1a	1762	1/1	0.86	0.11	74,74,74,74	0
55	MG	1a	1635	1/1	0.86	0.20	78,78,78,78	0
55	MG	2A	3785	1/1	0.86	0.07	97,97,97,97	0
55	MG	2A	3810	1/1	0.86	0.15	81,81,81,81	0
55	MG	2a	3102	1/1	0.86	0.19	77,77,77,77	0
55	MG	2A	3037	1/1	0.87	0.22	57,57,57,57	0
55	MG	2A	3770	1/1	0.87	0.15	71,71,71,71	0
55	MG	1A	3335	1/1	0.87	0.21	49,49,49,49	0
55	MG	2A	3049	1/1	0.87	0.15	74,74,74,74	0
55	MG	2A	3506	1/1	0.87	0.12	63,63,63,63	0
55	MG	2A	3361	1/1	0.87	0.16	65,65,65,65	0
55	MG	1a	1719	1/1	0.87	0.25	70,70,70,70	0
55	MG	2A	3053	1/1	0.87	0.12	59,59,59,59	0
55	MG	1A	3538	1/1	0.87	0.36	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
55	MG	2A	3370	1/1	0.87	0.10	81,81,81,81	0
55	MG	2B	202	1/1	0.87	0.16	84,84,84,84	0
55	MG	2A	3371	1/1	0.87	0.14	63,63,63,63	0
55	MG	2A	3560	1/1	0.87	0.15	69,69,69,69	0
55	MG	2A	3280	1/1	0.87	0.08	53,53,53,53	0
55	MG	1a	1622	1/1	0.87	0.19	59,59,59,59	0
55	MG	2A	3375	1/1	0.87	0.12	72,72,72,72	0
55	MG	2B	213	1/1	0.87	0.25	69,69,69,69	0
55	MG	1A	3132	1/1	0.87	0.14	73,73,73,73	0
55	MG	1A	3188	1/1	0.87	0.12	61,61,61,61	0
55	MG	2A	3599	1/1	0.87	0.13	61,61,61,61	0
55	MG	2a	3124	1/1	0.87	0.34	63,63,63,63	0
55	MG	2A	3601	1/1	0.87	0.14	69,69,69,69	0
55	MG	1A	3721	1/1	0.87	0.17	58,58,58,58	0
55	MG	2A	3606	1/1	0.87	0.13	67,67,67,67	0
55	MG	2A	3287	1/1	0.87	0.09	73,73,73,73	0
55	MG	1A	3341	1/1	0.87	0.19	56,56,56,56	0
55	MG	2A	3292	1/1	0.87	0.20	67,67,67,67	0
55	MG	2P	201	1/1	0.87	0.17	47,47,47,47	0
55	MG	2A	3623	1/1	0.87	0.21	59,59,59,59	0
55	MG	2a	3140	1/1	0.87	0.27	61,61,61,61	0
55	MG	1P	208	1/1	0.87	0.71	73,73,73,73	0
55	MG	2W	202	1/1	0.87	0.12	64,64,64,64	0
55	MG	1R	201	1/1	0.87	0.39	60,60,60,60	0
55	MG	2a	3147	1/1	0.87	0.31	69,69,69,69	0
55	MG	1a	1647	1/1	0.87	0.13	64,64,64,64	0
55	MG	2A	3648	1/1	0.87	0.19	69,69,69,69	0
55	MG	2A	3394	1/1	0.87	0.18	52,52,52,52	0
55	MG	1a	1779	1/1	0.87	0.11	48,48,48,48	0
55	MG	2a	3005	1/1	0.87	0.27	70,70,70,70	0
55	MG	2a	3173	1/1	0.87	0.10	66,66,66,66	0
55	MG	2A	3653	1/1	0.87	0.23	67,67,67,67	0
55	MG	1A	3386	1/1	0.87	0.45	55,55,55,55	0
55	MG	2A	3217	1/1	0.87	0.43	54,54,54,54	0
55	MG	1A	4076	1/1	0.87	0.13	68,68,68,68	0
55	MG	2a	3012	1/1	0.87	0.28	71,71,71,71	0
55	MG	2a	3016	1/1	0.87	0.08	68,68,68,68	0
55	MG	1A	3757	1/1	0.87	0.25	71,71,71,71	0
55	MG	1U	204	1/1	0.87	0.48	52,52,52,52	0
55	MG	2a	3020	1/1	0.87	0.12	89,89,89,89	0
55	MG	1A	3583	1/1	0.87	0.25	62,62,62,62	0
55	MG	1W	207	1/1	0.87	0.33	49,49,49,49	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3288	1/1	0.87	0.14	56,56,56,56	0
55	MG	1A	4091	1/1	0.87	0.10	93,93,93,93	0
55	MG	1A	3177	1/1	0.87	0.25	44,44,44,44	0
55	MG	2A	3233	1/1	0.87	0.36	64,64,64,64	0
55	MG	2A	3127	1/1	0.87	0.26	61,61,61,61	0
55	MG	1A	3321	1/1	0.87	0.46	48,48,48,48	0
55	MG	2A	3688	1/1	0.87	0.21	65,65,65,65	0
55	MG	2A	3451	1/1	0.87	0.33	76,76,76,76	0
55	MG	1A	3412	1/1	0.87	0.11	38,38,38,38	0
55	MG	1A	3511	1/1	0.87	0.19	73,73,73,73	0
55	MG	2A	3704	1/1	0.87	0.11	50,50,50,50	0
55	MG	1B	214	1/1	0.87	0.19	73,73,73,73	0
55	MG	2A	3145	1/1	0.87	0.27	49,49,49,49	0
55	MG	2a	3046	1/1	0.87	0.11	84,84,84,84	0
55	MG	2a	3048	1/1	0.87	0.21	72,72,72,72	0
55	MG	2a	3217	1/1	0.87	0.17	77,77,77,77	0
55	MG	2A	3714	1/1	0.87	0.11	47,47,47,47	0
55	MG	1A	3415	1/1	0.87	0.28	61,61,61,61	0
55	MG	1a	1693	1/1	0.87	0.14	56,56,56,56	0
55	MG	1A	3523	1/1	0.87	0.08	76,76,76,76	0
55	MG	1A	3331	1/1	0.87	0.16	68,68,68,68	0
55	MG	2A	3733	1/1	0.87	0.35	59,59,59,59	0
55	MG	1B	233	1/1	0.87	0.14	66,66,66,66	0
55	MG	2A	3739	1/1	0.87	0.19	73,73,73,73	0
55	MG	2q	202	1/1	0.87	0.18	74,74,74,74	0
55	MG	2A	3745	1/1	0.87	0.20	65,65,65,65	0
55	MG	1A	3999	1/1	0.87	0.14	57,57,57,57	0
55	MG	2a	3078	1/1	0.87	0.22	61,61,61,61	0
55	MG	1A	3851	1/1	0.87	0.15	58,58,58,58	0
55	MG	1A	3613	1/1	0.87	0.17	47,47,47,47	0
55	MG	2A	3263	1/1	0.87	0.28	55,55,55,55	0
55	MG	1A	3645	1/1	0.87	0.18	56,56,56,56	0
55	MG	2a	3092	1/1	0.87	0.14	72,72,72,72	0
55	MG	1A	3312	1/1	0.88	0.71	82,82,82,82	0
55	MG	1A	3888	1/1	0.88	0.30	62,62,62,62	0
55	MG	1a	1624	1/1	0.88	0.33	67,67,67,67	0
55	MG	2A	3273	1/1	0.88	0.07	64,64,64,64	0
55	MG	2B	210	1/1	0.88	0.07	70,70,70,70	0
55	MG	1A	3385	1/1	0.88	0.07	47,47,47,47	0
55	MG	2A	3048	1/1	0.88	0.08	51,51,51,51	0
55	MG	1A	3579	1/1	0.88	0.09	60,60,60,60	0
55	MG	1A	3094	1/1	0.88	0.21	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3393	1/1	0.88	0.30	68,68,68,68	0
55	MG	2A	3283	1/1	0.88	0.10	64,64,64,64	0
55	MG	2A	3381	1/1	0.88	0.18	69,69,69,69	0
55	MG	1A	3499	1/1	0.88	0.10	68,68,68,68	0
55	MG	2A	3058	1/1	0.88	0.11	54,54,54,54	0
55	MG	1A	3247	1/1	0.88	0.14	64,64,64,64	0
55	MG	2A	3289	1/1	0.88	0.18	61,61,61,61	0
55	MG	2a	3122	1/1	0.88	0.18	68,68,68,68	0
55	MG	1a	1747	1/1	0.88	0.09	65,65,65,65	0
55	MG	2Q	201	1/1	0.88	0.17	69,69,69,69	0
55	MG	2a	3128	1/1	0.88	0.19	83,83,83,83	0
55	MG	1A	3505	1/1	0.88	0.11	64,64,64,64	0
55	MG	2T	203	1/1	0.88	0.12	54,54,54,54	0
55	MG	2A	3396	1/1	0.88	0.23	48,48,48,48	0
55	MG	2A	3188	1/1	0.88	0.15	65,65,65,65	0
55	MG	2A	3299	1/1	0.88	0.10	63,63,63,63	0
55	MG	1a	1755	1/1	0.88	0.13	79,79,79,79	0
55	MG	2A	3662	1/1	0.88	0.14	60,60,60,60	0
55	MG	1A	3367	1/1	0.88	0.24	69,69,69,69	0
55	MG	2A	3412	1/1	0.88	0.18	56,56,56,56	0
55	MG	2A	3670	1/1	0.88	0.13	70,70,70,70	0
55	MG	2A	3195	1/1	0.88	0.11	71,71,71,71	0
55	MG	1A	3787	1/1	0.88	0.14	80,80,80,80	0
55	MG	2A	3306	1/1	0.88	1.01	65,65,65,65	0
55	MG	2A	3204	1/1	0.88	0.10	68,68,68,68	0
55	MG	2a	3156	1/1	0.88	0.06	99,99,99,99	0
55	MG	1a	1767	1/1	0.88	0.08	64,64,64,64	0
55	MG	2A	3678	1/1	0.88	0.17	73,73,73,73	0
55	MG	1a	1768	1/1	0.88	0.14	74,74,74,74	0
55	MG	1a	1652	1/1	0.88	0.12	69,69,69,69	0
55	MG	2A	3084	1/1	0.88	0.15	71,71,71,71	0
55	MG	1B	202	1/1	0.88	0.34	75,75,75,75	0
55	MG	1A	3047	1/1	0.88	0.09	35,35,35,35	0
55	MG	1A	3149	1/1	0.88	0.28	48,48,48,48	0
55	MG	1a	1662	1/1	0.88	0.17	76,76,76,76	0
55	MG	1A	3603	1/1	0.88	0.23	58,58,58,58	0
55	MG	1A	3825	1/1	0.88	0.15	56,56,56,56	0
55	MG	2a	3032	1/1	0.88	0.21	64,64,64,64	0
55	MG	2a	3033	1/1	0.88	0.30	65,65,65,65	0
55	MG	1A	3981	1/1	0.88	0.12	58,58,58,58	0
55	MG	1A	3374	1/1	0.88	0.54	73,73,73,73	0
55	MG	2a	3197	1/1	0.88	0.14	80,80,80,80	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	2A	3120	1/1	0.88	0.10	62,62,62,62	0
55	MG	1B	228	1/1	0.88	0.09	58,58,58,58	0
55	MG	1I	104	1/1	0.88	0.16	66,66,66,66	0
55	MG	2a	3203	1/1	0.88	0.24	67,67,67,67	0
55	MG	2A	3334	1/1	0.88	0.22	69,69,69,69	0
55	MG	1A	3834	1/1	0.88	0.15	48,48,48,48	0
55	MG	1A	3836	1/1	0.88	0.14	47,47,47,47	0
55	MG	2a	3044	1/1	0.88	0.12	58,58,58,58	0
55	MG	2A	3138	1/1	0.88	0.15	66,66,66,66	0
55	MG	2A	3484	1/1	0.88	0.19	59,59,59,59	0
55	MG	2A	3342	1/1	0.88	0.18	69,69,69,69	0
55	MG	2A	3343	1/1	0.88	0.13	64,64,64,64	0
55	MG	2A	3247	1/1	0.88	0.45	73,73,73,73	0
55	MG	2A	3760	1/1	0.88	0.12	56,56,56,56	0
55	MG	1B	234	1/1	0.88	0.15	82,82,82,82	0
55	MG	1a	1687	1/1	0.88	0.31	48,48,48,48	0
55	MG	2A	3498	1/1	0.88	0.27	64,64,64,64	0
55	MG	2A	3252	1/1	0.88	0.14	61,61,61,61	0
55	MG	2A	3774	1/1	0.88	0.17	67,67,67,67	0
55	MG	2a	3074	1/1	0.88	0.16	72,72,72,72	0
55	MG	2A	3775	1/1	0.88	0.11	83,83,83,83	0
55	MG	1A	3336	1/1	0.88	0.12	50,50,50,50	0
55	MG	1A	3270	1/1	0.88	0.12	65,65,65,65	0
55	MG	2A	3009	1/1	0.88	0.14	61,61,61,61	0
55	MG	2a	3082	1/1	0.88	0.16	71,71,71,71	0
55	MG	2A	3149	1/1	0.88	0.12	61,61,61,61	0
55	MG	1A	3635	1/1	0.88	0.21	53,53,53,53	0
55	MG	2A	3835	1/1	0.88	0.10	61,61,61,61	0
55	MG	2u	101	1/1	0.88	0.32	67,67,67,67	0
55	MG	1A	3637	1/1	0.88	0.16	51,51,51,51	0
55	MG	1A	3476	1/1	0.88	0.30	51,51,51,51	0
55	MG	2a	3094	1/1	0.88	0.38	80,80,80,80	0
55	MG	1a	1707	1/1	0.88	0.18	53,53,53,53	0
55	MG	1A	3196	1/1	0.88	0.40	61,61,61,61	0
55	MG	2B	203	1/1	0.88	0.19	71,71,71,71	0
55	MG	1A	3857	1/1	0.89	0.17	50,50,50,50	0
55	MG	1A	3860	1/1	0.89	0.14	56,56,56,56	0
55	MG	2A	3337	1/1	0.89	0.11	56,56,56,56	0
55	MG	2A	3112	1/1	0.89	0.28	61,61,61,61	0
55	MG	1A	3862	1/1	0.89	0.32	67,67,67,67	0
55	MG	1A	3355	1/1	0.89	0.11	59,59,59,59	0
55	MG	2A	3844	1/1	0.89	0.11	62,62,62,62	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3001	1/1	0.89	0.14	42,42,42,42	0
55	MG	2A	3848	1/1	0.89	0.29	61,61,61,61	0
55	MG	1A	4061	1/1	0.89	0.14	63,63,63,63	0
55	MG	1A	3875	1/1	0.89	0.10	47,47,47,47	0
55	MG	1A	3363	1/1	0.89	0.18	65,65,65,65	0
55	MG	1V	202	1/1	0.89	0.08	45,45,45,45	0
55	MG	2A	3254	1/1	0.89	0.27	74,74,74,74	0
55	MG	2A	3565	1/1	0.89	0.12	55,55,55,55	0
55	MG	1A	4082	1/1	0.89	0.23	55,55,55,55	0
55	MG	2B	211	1/1	0.89	0.19	71,71,71,71	0
55	MG	2A	3573	1/1	0.89	0.11	40,40,40,40	0
55	MG	1A	4084	1/1	0.89	0.26	58,58,58,58	0
55	MG	1A	3670	1/1	0.89	0.16	49,49,49,49	0
55	MG	1Y	202	1/1	0.89	0.58	63,63,63,63	0
55	MG	1A	3431	1/1	0.89	0.14	54,54,54,54	0
55	MG	2B	219	1/1	0.89	0.24	66,66,66,66	0
55	MG	1A	3566	1/1	0.89	0.56	50,50,50,50	0
55	MG	2A	3150	1/1	0.89	0.21	61,61,61,61	0
55	MG	1a	1674	1/1	0.89	0.34	58,58,58,58	0
55	MG	2A	3153	1/1	0.89	0.30	65,65,65,65	0
55	MG	1A	3723	1/1	0.89	0.22	65,65,65,65	0
55	MG	10	103	1/1	0.89	0.08	51,51,51,51	0
55	MG	2O	202	1/1	0.89	0.13	53,53,53,53	0
55	MG	1A	3432	1/1	0.89	0.09	47,47,47,47	0
55	MG	10	107	1/1	0.89	0.20	60,60,60,60	0
55	MG	2a	3136	1/1	0.89	0.38	64,64,64,64	0
55	MG	2a	3137	1/1	0.89	0.15	52,52,52,52	0
55	MG	2R	201	1/1	0.89	0.12	70,70,70,70	0
55	MG	1A	4098	1/1	0.89	0.31	80,80,80,80	0
55	MG	1a	1695	1/1	0.89	0.23	54,54,54,54	0
55	MG	2A	3165	1/1	0.89	0.11	54,54,54,54	0
55	MG	2A	3647	1/1	0.89	0.18	53,53,53,53	0
55	MG	2A	3032	1/1	0.89	0.24	48,48,48,48	0
55	MG	1A	3730	1/1	0.89	0.21	51,51,51,51	0
55	MG	25	101	1/1	0.89	0.22	51,51,51,51	0
55	MG	1A	3128	1/1	0.89	0.39	52,52,52,52	0
55	MG	1A	3745	1/1	0.89	0.11	64,64,64,64	0
55	MG	2A	3038	1/1	0.89	0.20	51,51,51,51	0
55	MG	2A	3045	1/1	0.89	0.43	53,53,53,53	0
55	MG	2A	3288	1/1	0.89	0.16	59,59,59,59	0
55	MG	1A	3487	1/1	0.89	0.16	65,65,65,65	0
55	MG	1B	213	1/1	0.89	0.33	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
55	MG	2A	3397	1/1	0.89	0.25	51,51,51,51	0
55	MG	2A	3399	1/1	0.89	0.12	61,61,61,61	0
55	MG	2A	3401	1/1	0.89	0.23	54,54,54,54	0
55	MG	2a	3186	1/1	0.89	0.16	77,77,77,77	0
55	MG	1A	3489	1/1	0.89	0.39	67,67,67,67	0
55	MG	2A	3050	1/1	0.89	0.07	58,58,58,58	0
55	MG	2A	3297	1/1	0.89	0.14	57,57,57,57	0
55	MG	2A	3408	1/1	0.89	0.30	53,53,53,53	0
55	MG	2A	3298	1/1	0.89	0.12	51,51,51,51	0
55	MG	1A	3493	1/1	0.89	0.17	58,58,58,58	0
55	MG	1a	1717	1/1	0.89	0.23	60,60,60,60	0
55	MG	1A	3963	1/1	0.89	0.14	61,61,61,61	0
55	MG	2a	3028	1/1	0.89	0.18	81,81,81,81	0
55	MG	2a	3200	1/1	0.89	0.10	64,64,64,64	0
55	MG	1A	3209	1/1	0.89	0.09	71,71,71,71	0
55	MG	1A	3597	1/1	0.89	0.10	62,62,62,62	0
55	MG	2A	3196	1/1	0.89	0.15	71,71,71,71	0
55	MG	2A	3433	1/1	0.89	0.20	44,44,44,44	0
55	MG	2A	3437	1/1	0.89	0.26	63,63,63,63	0
55	MG	1A	3447	1/1	0.89	0.25	42,42,42,42	0
55	MG	2A	3201	1/1	0.89	0.12	50,50,50,50	0
55	MG	2A	3309	1/1	0.89	0.31	76,76,76,76	0
55	MG	1a	1736	1/1	0.89	0.21	69,69,69,69	0
55	MG	2A	3722	1/1	0.89	0.12	57,57,57,57	0
55	MG	2A	3447	1/1	0.89	0.64	65,65,65,65	0
55	MG	2a	3213	1/1	0.89	0.12	81,81,81,81	0
55	MG	2A	3312	1/1	0.89	0.33	70,70,70,70	0
55	MG	2A	3450	1/1	0.89	0.33	63,63,63,63	0
55	MG	1a	1737	1/1	0.89	0.23	80,80,80,80	0
55	MG	2A	3314	1/1	0.89	0.18	63,63,63,63	0
55	MG	2a	3219	1/1	0.89	0.22	71,71,71,71	0
55	MG	1A	3255	1/1	0.89	0.11	58,58,58,58	0
55	MG	2A	3741	1/1	0.89	0.13	54,54,54,54	0
55	MG	1A	3035	1/1	0.89	0.07	48,48,48,48	0
55	MG	1A	3224	1/1	0.89	0.07	38,38,38,38	0
55	MG	1A	3454	1/1	0.89	0.35	51,51,51,51	0
55	MG	2a	3063	1/1	0.89	0.14	59,59,59,59	0
55	MG	2l	202	1/1	0.89	0.13	69,69,69,69	0
55	MG	2A	3756	1/1	0.89	0.17	70,70,70,70	0
55	MG	1A	3051	1/1	0.89	0.15	41,41,41,41	0
55	MG	2A	3223	1/1	0.89	0.23	70,70,70,70	0
55	MG	2A	3323	1/1	0.89	0.10	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
55	MG	2r	101	1/1	0.89	0.13	75,75,75,75	0
55	MG	1A	3457	1/1	0.89	0.18	68,68,68,68	0
55	MG	1A	3382	1/1	0.89	0.07	69,69,69,69	0
55	MG	1a	1639	1/1	0.89	0.13	71,71,71,71	0
55	MG	2A	3230	1/1	0.89	0.36	66,66,66,66	0
55	MG	1A	3525	1/1	0.89	0.11	67,67,67,67	0
55	MG	1A	3113	1/1	0.89	0.07	42,42,42,42	0
55	MG	1a	1645	1/1	0.89	0.08	62,62,62,62	0
55	MG	2A	3786	1/1	0.89	0.09	59,59,59,59	0
55	MG	2a	3066	1/1	0.90	0.22	69,69,69,69	0
55	MG	1A	3025	1/1	0.90	0.17	54,54,54,54	0
55	MG	2A	3166	1/1	0.90	0.09	69,69,69,69	0
55	MG	2A	3295	1/1	0.90	0.09	57,57,57,57	0
55	MG	1A	3119	1/1	0.90	0.19	52,52,52,52	0
55	MG	2A	3171	1/1	0.90	0.09	58,58,58,58	0
55	MG	1A	3478	1/1	0.90	0.31	41,41,41,41	0
55	MG	2a	3079	1/1	0.90	0.18	69,69,69,69	0
55	MG	2a	3080	1/1	0.90	0.17	72,72,72,72	0
55	MG	2A	3300	1/1	0.90	0.13	57,57,57,57	0
55	MG	2A	3015	1/1	0.90	0.23	50,50,50,50	0
55	MG	1a	1668	1/1	0.90	0.07	55,55,55,55	0
55	MG	1A	3337	1/1	0.90	0.08	56,56,56,56	0
55	MG	1A	4033	1/1	0.90	0.26	72,72,72,72	0
55	MG	1A	3375	1/1	0.90	0.23	55,55,55,55	0
55	MG	1A	4041	1/1	0.90	0.17	63,63,63,63	0
55	MG	1A	4042	1/1	0.90	0.13	61,61,61,61	0
55	MG	2A	3184	1/1	0.90	0.18	59,59,59,59	0
55	MG	2A	3463	1/1	0.90	0.22	59,59,59,59	0
55	MG	1A	3377	1/1	0.90	0.29	49,49,49,49	0
55	MG	1A	3846	1/1	0.90	0.38	58,58,58,58	0
55	MG	1a	1686	1/1	0.90	0.15	46,46,46,46	0
55	MG	2A	3467	1/1	0.90	0.14	62,62,62,62	0
55	MG	1Y	201	1/1	0.90	0.09	57,57,57,57	0
55	MG	2A	3315	1/1	0.90	0.14	52,52,52,52	0
55	MG	2A	3192	1/1	0.90	0.08	64,64,64,64	0
55	MG	2A	3820	1/1	0.90	0.08	78,78,78,78	0
55	MG	2A	3043	1/1	0.90	0.11	55,55,55,55	0
55	MG	2A	3318	1/1	0.90	0.30	67,67,67,67	0
55	MG	1A	3260	1/1	0.90	0.10	41,41,41,41	0
55	MG	1A	3428	1/1	0.90	0.11	62,62,62,62	0
55	MG	1A	3308	1/1	0.90	0.10	52,52,52,52	0
55	MG	1A	3430	1/1	0.90	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
55	MG	2A	3203	1/1	0.90	0.19	61,61,61,61	0
55	MG	2A	3850	1/1	0.90	0.13	55,55,55,55	0
55	MG	1A	3381	1/1	0.90	0.25	50,50,50,50	0
55	MG	2A	3491	1/1	0.90	0.21	65,65,65,65	0
55	MG	2A	3205	1/1	0.90	0.16	52,52,52,52	0
55	MG	2A	3496	1/1	0.90	0.10	66,66,66,66	0
55	MG	2A	3206	1/1	0.90	0.23	67,67,67,67	0
55	MG	2A	3500	1/1	0.90	0.14	67,67,67,67	0
55	MG	1A	3310	1/1	0.90	0.20	48,48,48,48	0
55	MG	2a	3131	1/1	0.90	0.30	53,53,53,53	0
55	MG	1A	3343	1/1	0.90	0.21	48,48,48,48	0
55	MG	1A	3502	1/1	0.90	0.20	59,59,59,59	0
55	MG	2A	3056	1/1	0.90	0.17	63,63,63,63	0
55	MG	1A	3436	1/1	0.90	0.49	73,73,73,73	0
55	MG	1A	3880	1/1	0.90	0.27	40,40,40,40	0
55	MG	2B	217	1/1	0.90	0.12	51,51,51,51	0
55	MG	1a	1716	1/1	0.90	0.22	63,63,63,63	0
55	MG	2A	3553	1/1	0.90	0.09	59,59,59,59	0
55	MG	2A	3338	1/1	0.90	0.35	71,71,71,71	0
55	MG	2A	3061	1/1	0.90	0.10	49,49,49,49	0
55	MG	2A	3067	1/1	0.90	0.13	49,49,49,49	0
55	MG	2a	3144	1/1	0.90	0.43	68,68,68,68	0
55	MG	2A	3571	1/1	0.90	0.13	88,88,88,88	0
55	MG	1A	4092	1/1	0.90	0.11	65,65,65,65	0
55	MG	1A	3506	1/1	0.90	0.15	50,50,50,50	0
55	MG	1A	3353	1/1	0.90	0.25	56,56,56,56	0
55	MG	1a	1722	1/1	0.90	0.21	56,56,56,56	0
55	MG	15	106	1/1	0.90	0.23	61,61,61,61	0
55	MG	2a	3166	1/1	0.90	0.09	63,63,63,63	0
55	MG	18	102	1/1	0.90	0.26	41,41,41,41	0
55	MG	1A	3445	1/1	0.90	0.34	51,51,51,51	0
55	MG	1B	204	1/1	0.90	0.27	63,63,63,63	0
55	MG	2a	3177	1/1	0.90	0.26	77,77,77,77	0
55	MG	2A	3354	1/1	0.90	0.15	66,66,66,66	0
55	MG	2A	3087	1/1	0.90	0.08	52,52,52,52	0
55	MG	1a	1738	1/1	0.90	0.15	75,75,75,75	0
55	MG	1A	3069	1/1	0.90	0.08	49,49,49,49	0
55	MG	1A	3039	1/1	0.90	0.40	46,46,46,46	0
55	MG	1A	3711	1/1	0.90	0.14	33,33,33,33	0
55	MG	1A	3914	1/1	0.90	0.09	43,43,43,43	0
55	MG	1A	3388	1/1	0.90	0.25	37,37,37,37	0
55	MG	2A	3253	1/1	0.90	0.11	77,77,77,77	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3722	1/1	0.90	0.12	66,66,66,66	0
55	MG	2a	3192	1/1	0.90	0.09	71,71,71,71	0
55	MG	1A	3922	1/1	0.90	0.24	50,50,50,50	0
55	MG	2A	3651	1/1	0.90	0.17	75,75,75,75	0
55	MG	1a	1627	1/1	0.90	0.20	53,53,53,53	0
55	MG	1A	3098	1/1	0.90	0.12	47,47,47,47	0
55	MG	1A	3530	1/1	0.90	0.60	49,49,49,49	0
55	MG	1A	3174	1/1	0.90	0.64	43,43,43,43	0
55	MG	2a	3018	1/1	0.90	0.08	56,56,56,56	0
55	MG	1A	3364	1/1	0.90	0.35	58,58,58,58	0
55	MG	2A	3661	1/1	0.90	0.08	62,62,62,62	0
55	MG	1a	1786	1/1	0.90	0.17	64,64,64,64	0
55	MG	2A	3264	1/1	0.90	0.15	61,61,61,61	0
55	MG	2A	3382	1/1	0.90	0.13	50,50,50,50	0
55	MG	2A	3667	1/1	0.90	0.22	51,51,51,51	0
55	MG	1a	1638	1/1	0.90	0.19	55,55,55,55	0
55	MG	1A	3406	1/1	0.90	0.20	65,65,65,65	0
55	MG	2a	3029	1/1	0.90	0.19	80,80,80,80	0
55	MG	1a	1798	1/1	0.90	0.14	70,70,70,70	0
55	MG	2A	3389	1/1	0.90	0.24	46,46,46,46	0
55	MG	1A	3754	1/1	0.90	0.32	42,42,42,42	0
55	MG	2a	3035	1/1	0.90	0.09	85,85,85,85	0
55	MG	1A	3756	1/1	0.90	0.10	30,30,30,30	0
55	MG	1F	303	1/1	0.90	0.07	41,41,41,41	0
55	MG	2A	3395	1/1	0.90	0.29	48,48,48,48	0
55	MG	2a	3221	1/1	0.90	0.17	85,85,85,85	0
55	MG	2a	3224	1/1	0.90	0.22	68,68,68,68	0
55	MG	1F	308	1/1	0.90	0.15	59,59,59,59	0
55	MG	2A	3278	1/1	0.90	0.17	58,58,58,58	0
55	MG	2d	303	1/1	0.90	0.22	56,56,56,56	0
55	MG	1A	3407	1/1	0.90	0.23	51,51,51,51	0
55	MG	2A	3689	1/1	0.90	0.09	65,65,65,65	0
55	MG	1b	301	1/1	0.90	0.15	63,63,63,63	0
55	MG	2A	3152	1/1	0.90	0.24	50,50,50,50	0
55	MG	1A	3463	1/1	0.90	0.06	37,37,37,37	0
55	MG	2A	3699	1/1	0.90	0.19	50,50,50,50	0
55	MG	2A	3155	1/1	0.90	0.13	44,44,44,44	0
55	MG	1A	3251	1/1	0.90	0.52	51,51,51,51	0
55	MG	1A	3568	1/1	0.90	0.58	47,47,47,47	0
55	MG	2a	3051	1/1	0.90	0.15	53,53,53,53	0
55	MG	1A	3472	1/1	0.90	0.31	68,68,68,68	0
55	MG	2A	3715	1/1	0.90	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
55	MG	2a	3055	1/1	0.90	0.09	73,73,73,73	0
55	MG	1x	105	1/1	0.90	0.13	59,59,59,59	0
55	MG	1A	3473	1/1	0.90	0.27	56,56,56,56	0
55	MG	1A	3819	1/1	0.90	0.65	47,47,47,47	0
55	MG	2a	3065	1/1	0.90	0.06	64,64,64,64	0
56	K	2A	3440	1/1	0.90	0.24	87,87,87,87	0
55	MG	2A	3345	1/1	0.91	0.11	72,72,72,72	0
55	MG	1A	3720	1/1	0.91	0.20	44,44,44,44	0
55	MG	2A	3193	1/1	0.91	0.08	49,49,49,49	0
55	MG	1A	3443	1/1	0.91	0.34	49,49,49,49	0
55	MG	1A	3512	1/1	0.91	0.59	36,36,36,36	0
55	MG	1A	3927	1/1	0.91	0.09	42,42,42,42	0
55	MG	1A	3515	1/1	0.91	0.38	60,60,60,60	0
55	MG	1E	303	1/1	0.91	0.26	42,42,42,42	0
55	MG	1E	310	1/1	0.91	0.12	48,48,48,48	0
55	MG	1A	3949	1/1	0.91	0.18	67,67,67,67	0
55	MG	2A	3021	1/1	0.91	0.36	55,55,55,55	0
55	MG	1A	3444	1/1	0.91	0.20	52,52,52,52	0
55	MG	1A	3263	1/1	0.91	0.22	61,61,61,61	0
55	MG	1A	3205	1/1	0.91	0.08	30,30,30,30	0
55	MG	2A	3364	1/1	0.91	0.26	66,66,66,66	0
55	MG	1A	3265	1/1	0.91	0.09	75,75,75,75	0
55	MG	2A	3031	1/1	0.91	0.15	58,58,58,58	0
55	MG	1A	3067	1/1	0.91	0.10	53,53,53,53	0
55	MG	1A	3338	1/1	0.91	0.09	43,43,43,43	0
55	MG	1a	1663	1/1	0.91	0.18	71,71,71,71	0
55	MG	1A	3165	1/1	0.91	0.22	60,60,60,60	0
55	MG	2A	3680	1/1	0.91	0.20	73,73,73,73	0
55	MG	1O	203	1/1	0.91	0.27	66,66,66,66	0
55	MG	2A	3042	1/1	0.91	0.19	58,58,58,58	0
55	MG	1A	3542	1/1	0.91	0.15	60,60,60,60	0
55	MG	1P	204	1/1	0.91	0.88	44,44,44,44	0
55	MG	1A	3389	1/1	0.91	0.38	50,50,50,50	0
55	MG	2A	3047	1/1	0.91	0.17	55,55,55,55	0
55	MG	1A	3550	1/1	0.91	0.14	60,60,60,60	0
55	MG	2A	3693	1/1	0.91	0.20	75,75,75,75	0
55	MG	2A	3696	1/1	0.91	0.12	62,62,62,62	0
55	MG	1A	3391	1/1	0.91	0.28	54,54,54,54	0
55	MG	1Q	201	1/1	0.91	0.34	48,48,48,48	0
55	MG	1a	1673	1/1	0.91	0.21	63,63,63,63	0
55	MG	1Q	204	1/1	0.91	0.09	57,57,57,57	0
55	MG	1a	1678	1/1	0.91	0.26	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
55	MG	1A	4000	1/1	0.91	0.15	42,42,42,42	0
55	MG	1A	3273	1/1	0.91	0.11	51,51,51,51	0
55	MG	2A	3719	1/1	0.91	0.16	61,61,61,61	0
55	MG	1a	1682	1/1	0.91	0.21	72,72,72,72	0
55	MG	2A	3251	1/1	0.91	0.11	60,60,60,60	0
55	MG	2A	3728	1/1	0.91	0.12	61,61,61,61	0
55	MG	1a	1683	1/1	0.91	0.14	60,60,60,60	0
55	MG	1A	3134	1/1	0.91	0.12	38,38,38,38	0
55	MG	2A	3063	1/1	0.91	0.22	67,67,67,67	0
55	MG	2A	3066	1/1	0.91	0.21	62,62,62,62	0
55	MG	2a	3106	1/1	0.91	0.19	73,73,73,73	0
55	MG	1T	203	1/1	0.91	0.11	56,56,56,56	0
55	MG	1a	1688	1/1	0.91	0.18	59,59,59,59	0
55	MG	1a	1689	1/1	0.91	0.36	46,46,46,46	0
55	MG	1A	3467	1/1	0.91	0.10	54,54,54,54	0
55	MG	1A	3469	1/1	0.91	0.15	61,61,61,61	0
55	MG	2A	3755	1/1	0.91	0.12	71,71,71,71	0
55	MG	1A	3470	1/1	0.91	0.23	59,59,59,59	0
55	MG	1V	204	1/1	0.91	0.15	48,48,48,48	0
55	MG	2a	3116	1/1	0.91	0.12	80,80,80,80	0
55	MG	2A	3420	1/1	0.91	0.17	56,56,56,56	0
55	MG	2A	3423	1/1	0.91	0.28	59,59,59,59	0
55	MG	2A	3424	1/1	0.91	0.25	58,58,58,58	0
55	MG	2A	3079	1/1	0.91	0.33	63,63,63,63	0
55	MG	2a	3123	1/1	0.91	0.14	70,70,70,70	0
55	MG	2A	3268	1/1	0.91	0.26	65,65,65,65	0
55	MG	2A	3773	1/1	0.91	0.17	69,69,69,69	0
55	MG	1A	3138	1/1	0.91	0.32	49,49,49,49	0
55	MG	1A	4034	1/1	0.91	0.07	49,49,49,49	0
55	MG	1A	3349	1/1	0.91	0.44	45,45,45,45	0
55	MG	1A	3837	1/1	0.91	0.08	43,43,43,43	0
55	MG	1A	3588	1/1	0.91	0.09	34,34,34,34	0
55	MG	2A	3795	1/1	0.91	0.09	57,57,57,57	0
55	MG	1a	1714	1/1	0.91	0.12	55,55,55,55	0
55	MG	2A	3275	1/1	0.91	0.25	71,71,71,71	0
55	MG	1A	3845	1/1	0.91	0.11	78,78,78,78	0
55	MG	1A	3352	1/1	0.91	0.25	59,59,59,59	0
55	MG	2A	3828	1/1	0.91	0.10	63,63,63,63	0
55	MG	2a	3139	1/1	0.91	0.16	76,76,76,76	0
55	MG	1A	3848	1/1	0.91	0.11	62,62,62,62	0
55	MG	1A	3169	1/1	0.91	0.22	65,65,65,65	0
55	MG	2A	3104	1/1	0.91	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
55	MG	2A	3109	1/1	0.91	0.15	38,38,38,38	0
55	MG	2A	3457	1/1	0.91	0.12	67,67,67,67	0
55	MG	2A	3458	1/1	0.91	0.23	58,58,58,58	0
55	MG	2A	3460	1/1	0.91	0.07	41,41,41,41	0
55	MG	1A	3292	1/1	0.91	0.09	62,62,62,62	0
55	MG	2A	3113	1/1	0.91	0.17	57,57,57,57	0
55	MG	1a	1721	1/1	0.91	0.08	67,67,67,67	0
55	MG	1A	3413	1/1	0.91	0.25	53,53,53,53	0
55	MG	2a	3164	1/1	0.91	0.10	85,85,85,85	0
55	MG	1a	1723	1/1	0.91	0.07	68,68,68,68	0
55	MG	1A	3855	1/1	0.91	0.08	75,75,75,75	0
55	MG	1A	3295	1/1	0.91	0.14	56,56,56,56	0
55	MG	1a	1731	1/1	0.91	0.10	71,71,71,71	0
55	MG	2A	3135	1/1	0.91	0.29	52,52,52,52	0
55	MG	1a	1732	1/1	0.91	0.10	68,68,68,68	0
55	MG	2B	214	1/1	0.91	0.14	64,64,64,64	0
55	MG	1A	3296	1/1	0.91	0.14	56,56,56,56	0
55	MG	11	105	1/1	0.91	0.17	56,56,56,56	0
55	MG	1A	3122	1/1	0.91	0.10	58,58,58,58	0
55	MG	1A	3420	1/1	0.91	0.09	55,55,55,55	0
55	MG	1A	3054	1/1	0.91	0.22	59,59,59,59	0
55	MG	2A	3148	1/1	0.91	0.35	77,77,77,77	0
55	MG	2D	304	1/1	0.91	0.16	63,63,63,63	0
55	MG	15	102	1/1	0.91	0.45	50,50,50,50	0
55	MG	1A	3488	1/1	0.91	0.10	63,63,63,63	0
55	MG	2F	303	1/1	0.91	0.09	64,64,64,64	0
55	MG	15	107	1/1	0.91	0.38	44,44,44,44	0
55	MG	2A	3495	1/1	0.91	0.29	65,65,65,65	0
55	MG	1A	3146	1/1	0.91	0.07	52,52,52,52	0
55	MG	1A	3881	1/1	0.91	0.11	57,57,57,57	0
55	MG	19	101	1/1	0.91	0.13	56,56,56,56	0
55	MG	2a	3202	1/1	0.91	0.11	66,66,66,66	0
55	MG	1A	3007	1/1	0.91	0.08	44,44,44,44	0
55	MG	1A	3887	1/1	0.91	0.54	42,42,42,42	0
55	MG	2A	3518	1/1	0.91	0.20	66,66,66,66	0
55	MG	1a	1603	1/1	0.91	0.14	58,58,58,58	0
55	MG	1a	1604	1/1	0.91	0.21	62,62,62,62	0
55	MG	1a	1782	1/1	0.91	0.10	69,69,69,69	0
55	MG	2W	204	1/1	0.91	0.19	72,72,72,72	0
55	MG	1A	3184	1/1	0.91	0.12	68,68,68,68	0
55	MG	2A	3545	1/1	0.91	0.08	41,41,41,41	0
55	MG	2A	3548	1/1	0.91	0.09	57,57,57,57	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1a	1787	1/1	0.91	0.07	65,65,65,65	0
55	MG	1a	1789	1/1	0.91	0.07	88,88,88,88	0
55	MG	1A	3129	1/1	0.91	0.34	44,44,44,44	0
55	MG	1A	3314	1/1	0.91	0.28	54,54,54,54	0
55	MG	1a	1617	1/1	0.91	0.08	63,63,63,63	0
55	MG	1B	211	1/1	0.91	0.24	48,48,48,48	0
55	MG	2A	3175	1/1	0.91	0.19	72,72,72,72	0
55	MG	1A	3258	1/1	0.91	0.11	64,64,64,64	0
55	MG	2a	3010	1/1	0.91	0.21	64,64,64,64	0
55	MG	2a	3011	1/1	0.91	0.14	59,59,59,59	0
55	MG	2d	301	1/1	0.91	0.38	63,63,63,63	0
55	MG	2A	3328	1/1	0.91	0.10	53,53,53,53	0
55	MG	2A	3582	1/1	0.91	0.11	70,70,70,70	0
55	MG	1a	1623	1/1	0.91	0.09	60,60,60,60	0
55	MG	1A	3063	1/1	0.91	0.36	74,74,74,74	0
55	MG	2A	3179	1/1	0.91	0.22	64,64,64,64	0
55	MG	1a	1810	1/1	0.91	0.22	58,58,58,58	0
55	MG	1a	1626	1/1	0.91	0.14	69,69,69,69	0
55	MG	1B	218	1/1	0.91	0.16	51,51,51,51	0
55	MG	1A	3324	1/1	0.91	0.10	52,52,52,52	0
55	MG	1a	1631	1/1	0.91	0.40	54,54,54,54	0
55	MG	2A	3186	1/1	0.91	0.14	65,65,65,65	0
55	MG	2a	3027	1/1	0.91	0.11	71,71,71,71	0
55	MG	2A	3339	1/1	0.91	0.17	70,70,70,70	0
55	MG	2A	3631	1/1	0.91	0.21	60,60,60,60	0
55	MG	2A	3340	1/1	0.91	0.18	66,66,66,66	0
55	MG	1r	101	1/1	0.91	0.24	66,66,66,66	0
55	MG	2A	3644	1/1	0.91	0.40	58,58,58,58	0
55	MG	2a	3034	1/1	0.91	0.20	55,55,55,55	0
55	MG	1B	223	1/1	0.91	0.17	63,63,63,63	0
56	K	1A	3562	1/1	0.91	0.24	91,91,91,91	0
55	MG	1A	3327	1/1	0.91	0.14	49,49,49,49	0
55	MG	1A	3833	1/1	0.92	0.14	43,43,43,43	0
55	MG	1A	3585	1/1	0.92	0.20	55,55,55,55	0
55	MG	1A	3150	1/1	0.92	0.16	59,59,59,59	0
55	MG	1W	201	1/1	0.92	0.14	48,48,48,48	0
55	MG	2A	3654	1/1	0.92	0.19	75,75,75,75	0
55	MG	1W	205	1/1	0.92	0.17	45,45,45,45	0
55	MG	1A	3029	1/1	0.92	0.15	41,41,41,41	0
55	MG	1a	1702	1/1	0.92	0.08	73,73,73,73	0
55	MG	1A	4039	1/1	0.92	0.24	80,80,80,80	0
55	MG	1A	3841	1/1	0.92	0.17	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
55	MG	1A	3591	1/1	0.92	0.29	72,72,72,72	0
55	MG	1A	3844	1/1	0.92	0.24	67,67,67,67	0
55	MG	1A	3484	1/1	0.92	0.08	68,68,68,68	0
55	MG	2A	3075	1/1	0.92	0.10	59,59,59,59	0
55	MG	1A	3153	1/1	0.92	0.44	54,54,54,54	0
55	MG	1A	3192	1/1	0.92	0.10	49,49,49,49	0
55	MG	1A	3315	1/1	0.92	0.16	50,50,50,50	0
55	MG	1A	3195	1/1	0.92	0.15	53,53,53,53	0
55	MG	2A	3676	1/1	0.92	0.12	65,65,65,65	0
55	MG	1A	3002	1/1	0.92	0.08	54,54,54,54	0
55	MG	2A	3086	1/1	0.92	0.34	61,61,61,61	0
55	MG	1a	1720	1/1	0.92	0.21	52,52,52,52	0
55	MG	1A	3853	1/1	0.92	0.17	59,59,59,59	0
55	MG	2A	3092	1/1	0.92	0.10	55,55,55,55	0
55	MG	2A	3403	1/1	0.92	0.19	53,53,53,53	0
55	MG	2A	3093	1/1	0.92	0.20	81,81,81,81	0
55	MG	1A	4085	1/1	0.92	0.15	52,52,52,52	0
55	MG	1A	3322	1/1	0.92	0.17	58,58,58,58	0
55	MG	1a	1724	1/1	0.92	0.29	67,67,67,67	0
55	MG	2A	3410	1/1	0.92	0.35	55,55,55,55	0
55	MG	1A	3435	1/1	0.92	0.08	50,50,50,50	0
55	MG	2A	3413	1/1	0.92	0.20	62,62,62,62	0
55	MG	2A	3099	1/1	0.92	0.28	65,65,65,65	0
55	MG	2a	3069	1/1	0.92	0.16	63,63,63,63	0
55	MG	2A	3417	1/1	0.92	0.15	46,46,46,46	0
55	MG	1a	1726	1/1	0.92	0.14	64,64,64,64	0
55	MG	1A	3859	1/1	0.92	0.11	64,64,64,64	0
55	MG	2A	3713	1/1	0.92	0.10	67,67,67,67	0
55	MG	1A	3605	1/1	0.92	0.37	59,59,59,59	0
55	MG	1A	3323	1/1	0.92	0.10	50,50,50,50	0
55	MG	1A	4095	1/1	0.92	0.13	59,59,59,59	0
55	MG	1A	3044	1/1	0.92	0.22	50,50,50,50	0
55	MG	17	102	1/1	0.92	0.07	40,40,40,40	0
55	MG	2A	3119	1/1	0.92	0.10	57,57,57,57	0
55	MG	2A	3724	1/1	0.92	0.10	59,59,59,59	0
55	MG	17	103	1/1	0.92	0.11	44,44,44,44	0
55	MG	2a	3091	1/1	0.92	0.22	55,55,55,55	0
55	MG	2A	3729	1/1	0.92	0.21	50,50,50,50	0
55	MG	1A	3269	1/1	0.92	0.25	48,48,48,48	0
55	MG	2A	3439	1/1	0.92	0.12	74,74,74,74	0
55	MG	1A	4100	1/1	0.92	0.05	49,49,49,49	0
55	MG	1A	4103	1/1	0.92	0.07	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
55	MG	1A	3206	1/1	0.92	0.14	69,69,69,69	0
55	MG	1a	1751	1/1	0.92	0.22	51,51,51,51	0
55	MG	2A	3742	1/1	0.92	0.40	56,56,56,56	0
55	MG	2A	3743	1/1	0.92	0.09	57,57,57,57	0
55	MG	1B	203	1/1	0.92	0.19	45,45,45,45	0
55	MG	2A	3290	1/1	0.92	0.21	55,55,55,55	0
55	MG	1A	3334	1/1	0.92	0.10	46,46,46,46	0
55	MG	2A	3751	1/1	0.92	0.10	68,68,68,68	0
55	MG	1A	3271	1/1	0.92	0.17	49,49,49,49	0
55	MG	1A	3649	1/1	0.92	0.14	50,50,50,50	0
55	MG	1a	1611	1/1	0.92	0.09	42,42,42,42	0
55	MG	2A	3758	1/1	0.92	0.20	73,73,73,73	0
55	MG	1a	1612	1/1	0.92	0.08	64,64,64,64	0
55	MG	1A	3208	1/1	0.92	0.06	54,54,54,54	0
55	MG	1A	3513	1/1	0.92	0.51	51,51,51,51	0
55	MG	1a	1784	1/1	0.92	0.09	60,60,60,60	0
55	MG	1A	3072	1/1	0.92	0.26	36,36,36,36	0
55	MG	2A	3772	1/1	0.92	0.09	75,75,75,75	0
55	MG	1A	3694	1/1	0.92	0.10	61,61,61,61	0
55	MG	1a	1619	1/1	0.92	0.10	62,62,62,62	0
55	MG	1A	3894	1/1	0.92	0.23	57,57,57,57	0
55	MG	2A	3469	1/1	0.92	0.13	42,42,42,42	0
55	MG	2A	3781	1/1	0.92	0.08	73,73,73,73	0
55	MG	2a	3127	1/1	0.92	0.28	56,56,56,56	0
55	MG	2A	3470	1/1	0.92	0.17	57,57,57,57	0
55	MG	1A	3895	1/1	0.92	0.09	32,32,32,32	0
55	MG	1A	3907	1/1	0.92	0.12	78,78,78,78	0
55	MG	2A	3801	1/1	0.92	0.08	38,38,38,38	0
55	MG	2A	3806	1/1	0.92	0.08	61,61,61,61	0
55	MG	1B	224	1/1	0.92	0.14	64,64,64,64	0
55	MG	2A	3476	1/1	0.92	0.31	62,62,62,62	0
55	MG	2A	3812	1/1	0.92	0.10	42,42,42,42	0
55	MG	1A	3696	1/1	0.92	0.09	53,53,53,53	0
55	MG	1a	1629	1/1	0.92	0.21	48,48,48,48	0
55	MG	1A	3075	1/1	0.92	0.24	53,53,53,53	0
55	MG	2A	3829	1/1	0.92	0.07	53,53,53,53	0
55	MG	2A	3482	1/1	0.92	0.20	59,59,59,59	0
55	MG	2A	3483	1/1	0.92	0.10	68,68,68,68	0
55	MG	1a	1809	1/1	0.92	0.11	70,70,70,70	0
55	MG	2A	3843	1/1	0.92	0.07	67,67,67,67	0
55	MG	1A	3286	1/1	0.92	0.23	68,68,68,68	0
55	MG	2a	3146	1/1	0.92	0.28	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
55	MG	1a	1812	1/1	0.92	0.21	64,64,64,64	0
55	MG	2A	3488	1/1	0.92	0.15	64,64,64,64	0
55	MG	1B	232	1/1	0.92	0.16	65,65,65,65	0
55	MG	1A	3287	1/1	0.92	0.31	57,57,57,57	0
55	MG	2a	3157	1/1	0.92	0.15	88,88,88,88	0
55	MG	1A	3080	1/1	0.92	0.21	48,48,48,48	0
55	MG	1f	201	1/1	0.92	0.18	62,62,62,62	0
55	MG	2B	205	1/1	0.92	0.07	72,72,72,72	0
55	MG	1A	3046	1/1	0.92	0.12	51,51,51,51	0
55	MG	1D	306	1/1	0.92	0.20	46,46,46,46	0
55	MG	1D	309	1/1	0.92	0.10	45,45,45,45	0
55	MG	2a	3174	1/1	0.92	0.22	67,67,67,67	0
55	MG	2B	209	1/1	0.92	0.14	62,62,62,62	0
55	MG	1a	1643	1/1	0.92	0.12	66,66,66,66	0
55	MG	2A	3502	1/1	0.92	0.19	56,56,56,56	0
55	MG	1E	302	1/1	0.92	0.30	43,43,43,43	0
55	MG	2A	3507	1/1	0.92	0.14	66,66,66,66	0
55	MG	2A	3510	1/1	0.92	0.25	62,62,62,62	0
55	MG	1A	3531	1/1	0.92	0.28	67,67,67,67	0
55	MG	2A	3182	1/1	0.92	0.12	60,60,60,60	0
55	MG	1E	305	1/1	0.92	0.19	49,49,49,49	0
55	MG	1A	3170	1/1	0.92	0.41	43,43,43,43	0
55	MG	1A	3942	1/1	0.92	0.09	44,44,44,44	0
55	MG	2A	3530	1/1	0.92	0.08	42,42,42,42	0
55	MG	2D	301	1/1	0.92	0.10	45,45,45,45	0
55	MG	2D	303	1/1	0.92	0.09	39,39,39,39	0
55	MG	2A	3543	1/1	0.92	0.09	44,44,44,44	0
55	MG	1A	3728	1/1	0.92	0.09	56,56,56,56	0
55	MG	2E	305	1/1	0.92	0.07	32,32,32,32	0
55	MG	1A	3465	1/1	0.92	0.10	73,73,73,73	0
55	MG	2A	3019	1/1	0.92	0.37	51,51,51,51	0
55	MG	1F	306	1/1	0.92	0.19	54,54,54,54	0
55	MG	1A	3294	1/1	0.92	0.26	62,62,62,62	0
55	MG	1A	3409	1/1	0.92	0.11	42,42,42,42	0
55	MG	2A	3562	1/1	0.92	0.14	63,63,63,63	0
55	MG	1A	3171	1/1	0.92	0.15	61,61,61,61	0
55	MG	1A	3551	1/1	0.92	0.23	65,65,65,65	0
55	MG	2A	3029	1/1	0.92	0.14	60,60,60,60	0
55	MG	2A	3572	1/1	0.92	0.09	47,47,47,47	0
55	MG	2R	203	1/1	0.92	0.19	39,39,39,39	0
55	MG	1A	3556	1/1	0.92	0.30	50,50,50,50	0
55	MG	2V	201	1/1	0.92	0.18	56,56,56,56	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3977	1/1	0.92	0.15	53,53,53,53	0
55	MG	2A	3202	1/1	0.92	0.20	65,65,65,65	0
55	MG	1A	3093	1/1	0.92	0.28	49,49,49,49	0
55	MG	2Y	201	1/1	0.92	0.23	55,55,55,55	0
55	MG	2A	3594	1/1	0.92	0.13	64,64,64,64	0
55	MG	1P	201	1/1	0.92	0.15	35,35,35,35	0
55	MG	20	102	1/1	0.92	0.13	49,49,49,49	0
55	MG	21	101	1/1	0.92	0.27	63,63,63,63	0
55	MG	2a	3222	1/1	0.92	0.13	67,67,67,67	0
55	MG	23	101	1/1	0.92	0.30	59,59,59,59	0
55	MG	1A	3016	1/1	0.92	0.24	67,67,67,67	0
55	MG	1A	3767	1/1	0.92	0.15	56,56,56,56	0
55	MG	27	102	1/1	0.92	0.10	63,63,63,63	0
55	MG	2A	3600	1/1	0.92	0.26	56,56,56,56	0
55	MG	2e	201	1/1	0.92	0.06	84,84,84,84	0
55	MG	1A	3560	1/1	0.92	0.33	61,61,61,61	0
55	MG	2A	3213	1/1	0.92	0.33	51,51,51,51	0
55	MG	2A	3604	1/1	0.92	0.12	67,67,67,67	0
55	MG	1A	3989	1/1	0.92	0.09	66,66,66,66	0
55	MG	1A	3049	1/1	0.92	0.11	50,50,50,50	0
55	MG	2A	3611	1/1	0.92	0.11	55,55,55,55	0
55	MG	1A	3360	1/1	0.92	0.23	67,67,67,67	0
55	MG	1A	3569	1/1	0.92	0.43	65,65,65,65	0
55	MG	1A	4008	1/1	0.92	0.09	86,86,86,86	0
55	MG	2a	3014	1/1	0.92	0.28	74,74,74,74	0
55	MG	2A	3624	1/1	0.92	0.11	46,46,46,46	0
55	MG	2A	3221	1/1	0.92	0.08	52,52,52,52	0
55	MG	1A	3362	1/1	0.92	0.11	50,50,50,50	0
55	MG	1A	3418	1/1	0.92	0.26	62,62,62,62	0
55	MG	2A	3643	1/1	0.92	0.23	76,76,76,76	0
55	MG	1a	1684	1/1	0.92	0.11	69,69,69,69	0
55	MG	1A	3828	1/1	0.92	0.11	53,53,53,53	0
55	MG	1A	3254	1/1	0.92	0.11	50,50,50,50	0
55	MG	1U	207	1/1	0.92	0.45	52,52,52,52	0
55	MG	1A	3609	1/1	0.93	0.10	59,59,59,59	0
55	MG	1A	3348	1/1	0.93	0.16	51,51,51,51	0
55	MG	2A	3105	1/1	0.93	0.25	58,58,58,58	0
55	MG	1a	1696	1/1	0.93	0.15	57,57,57,57	0
55	MG	2A	3595	1/1	0.93	0.12	66,66,66,66	0
55	MG	1A	3631	1/1	0.93	0.13	58,58,58,58	0
55	MG	1A	3632	1/1	0.93	0.11	42,42,42,42	0
55	MG	2A	3117	1/1	0.93	0.21	63,63,63,63	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3225	1/1	0.93	0.10	48,48,48,48	0
55	MG	1A	3928	1/1	0.93	0.13	43,43,43,43	0
55	MG	1P	206	1/1	0.93	0.20	51,51,51,51	0
55	MG	2A	3124	1/1	0.93	0.15	45,45,45,45	0
55	MG	1A	3929	1/1	0.93	0.13	64,64,64,64	0
55	MG	1A	3636	1/1	0.93	0.09	57,57,57,57	0
55	MG	1a	1713	1/1	0.93	0.16	62,62,62,62	0
55	MG	2A	3612	1/1	0.93	0.08	57,57,57,57	0
55	MG	1A	3350	1/1	0.93	0.22	54,54,54,54	0
55	MG	1Q	202	1/1	0.93	0.16	39,39,39,39	0
55	MG	2A	3622	1/1	0.93	0.09	55,55,55,55	0
55	MG	1A	3226	1/1	0.93	0.32	58,58,58,58	0
55	MG	1Q	207	1/1	0.93	0.18	36,36,36,36	0
55	MG	1A	3952	1/1	0.93	0.08	38,38,38,38	0
55	MG	2A	3637	1/1	0.93	0.12	50,50,50,50	0
55	MG	1S	201	1/1	0.93	0.24	52,52,52,52	0
55	MG	1A	3494	1/1	0.93	0.10	64,64,64,64	0
55	MG	1A	3960	1/1	0.93	0.13	53,53,53,53	0
55	MG	1A	3088	1/1	0.93	0.52	48,48,48,48	0
55	MG	1A	3055	1/1	0.93	0.13	58,58,58,58	0
55	MG	1A	3290	1/1	0.93	0.10	55,55,55,55	0
55	MG	1A	3658	1/1	0.93	0.14	51,51,51,51	0
55	MG	1A	3974	1/1	0.93	0.11	51,51,51,51	0
55	MG	1A	3662	1/1	0.93	0.12	75,75,75,75	0
55	MG	1A	3231	1/1	0.93	0.10	55,55,55,55	0
55	MG	2A	3156	1/1	0.93	0.19	65,65,65,65	0
55	MG	1A	3691	1/1	0.93	0.12	56,56,56,56	0
55	MG	1A	3503	1/1	0.93	0.07	59,59,59,59	0
55	MG	1A	3141	1/1	0.93	0.20	39,39,39,39	0
55	MG	1A	3024	1/1	0.93	0.13	46,46,46,46	0
55	MG	2A	3161	1/1	0.93	0.09	61,61,61,61	0
55	MG	1X	104	1/1	0.93	0.08	51,51,51,51	0
55	MG	1A	3994	1/1	0.93	0.07	36,36,36,36	0
55	MG	2A	3664	1/1	0.93	0.08	54,54,54,54	0
55	MG	1A	3237	1/1	0.93	0.39	44,44,44,44	0
55	MG	1A	3240	1/1	0.93	0.31	48,48,48,48	0
55	MG	1A	3366	1/1	0.93	0.16	49,49,49,49	0
55	MG	1A	4005	1/1	0.93	0.13	45,45,45,45	0
55	MG	2a	3056	1/1	0.93	0.27	56,56,56,56	0
55	MG	2a	3058	1/1	0.93	0.14	67,67,67,67	0
55	MG	1A	3300	1/1	0.93	0.25	41,41,41,41	0
55	MG	1A	3368	1/1	0.93	0.20	49,49,49,49	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1a	1764	1/1	0.93	0.25	64,64,64,64	0
55	MG	1A	3370	1/1	0.93	0.29	62,62,62,62	0
55	MG	1A	3437	1/1	0.93	0.24	54,54,54,54	0
55	MG	1A	3241	1/1	0.93	0.18	49,49,49,49	0
55	MG	1A	4029	1/1	0.93	0.15	62,62,62,62	0
55	MG	2a	3070	1/1	0.93	0.16	58,58,58,58	0
55	MG	2a	3072	1/1	0.93	0.14	67,67,67,67	0
55	MG	1A	3439	1/1	0.93	0.14	71,71,71,71	0
55	MG	1A	3738	1/1	0.93	0.11	59,59,59,59	0
55	MG	1A	3739	1/1	0.93	0.16	56,56,56,56	0
55	MG	2a	3076	1/1	0.93	0.28	66,66,66,66	0
55	MG	2A	3684	1/1	0.93	0.09	71,71,71,71	0
55	MG	2A	3376	1/1	0.93	0.06	72,72,72,72	0
55	MG	1A	3526	1/1	0.93	0.20	62,62,62,62	0
55	MG	15	101	1/1	0.93	0.31	47,47,47,47	0
55	MG	1A	3746	1/1	0.93	0.09	59,59,59,59	0
55	MG	15	104	1/1	0.93	0.71	41,41,41,41	0
55	MG	1A	4040	1/1	0.93	0.10	66,66,66,66	0
55	MG	1A	3529	1/1	0.93	0.36	48,48,48,48	0
55	MG	2A	3697	1/1	0.93	0.12	56,56,56,56	0
55	MG	2a	3089	1/1	0.93	0.21	61,61,61,61	0
55	MG	1a	1800	1/1	0.93	0.09	60,60,60,60	0
55	MG	2A	3190	1/1	0.93	0.06	62,62,62,62	0
55	MG	2A	3705	1/1	0.93	0.10	78,78,78,78	0
55	MG	2A	3706	1/1	0.93	0.07	53,53,53,53	0
55	MG	2A	3191	1/1	0.93	0.07	63,63,63,63	0
55	MG	2A	3388	1/1	0.93	0.16	36,36,36,36	0
55	MG	2a	3098	1/1	0.93	0.09	72,72,72,72	0
55	MG	1a	1802	1/1	0.93	0.15	60,60,60,60	0
55	MG	1A	3441	1/1	0.93	0.25	43,43,43,43	0
55	MG	1A	3120	1/1	0.93	0.28	47,47,47,47	0
55	MG	18	101	1/1	0.93	0.25	69,69,69,69	0
55	MG	1A	4047	1/1	0.93	0.09	36,36,36,36	0
55	MG	2A	3720	1/1	0.93	0.09	71,71,71,71	0
55	MG	18	103	1/1	0.93	0.12	54,54,54,54	0
55	MG	1A	3373	1/1	0.93	0.29	50,50,50,50	0
55	MG	18	105	1/1	0.93	0.26	43,43,43,43	0
55	MG	1A	3537	1/1	0.93	0.13	49,49,49,49	0
55	MG	1A	3148	1/1	0.93	0.19	35,35,35,35	0
55	MG	1A	3782	1/1	0.93	0.09	37,37,37,37	0
55	MG	1A	3252	1/1	0.93	0.13	57,57,57,57	0
55	MG	2A	3207	1/1	0.93	0.24	57,57,57,57	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	2A	3208	1/1	0.93	0.14	49,49,49,49	0
55	MG	2A	3737	1/1	0.93	0.13	50,50,50,50	0
55	MG	2a	3117	1/1	0.93	0.06	67,67,67,67	0
55	MG	1A	3792	1/1	0.93	0.11	54,54,54,54	0
55	MG	1a	1605	1/1	0.93	0.11	57,57,57,57	0
55	MG	2A	3411	1/1	0.93	0.27	57,57,57,57	0
55	MG	1A	3253	1/1	0.93	0.23	58,58,58,58	0
55	MG	1x	101	1/1	0.93	0.23	63,63,63,63	0
55	MG	2A	3414	1/1	0.93	0.26	58,58,58,58	0
55	MG	1A	3545	1/1	0.93	0.21	65,65,65,65	0
55	MG	1x	104	1/1	0.93	0.12	64,64,64,64	0
55	MG	2A	3753	1/1	0.93	0.11	45,45,45,45	0
55	MG	1A	4087	1/1	0.93	0.32	73,73,73,73	0
55	MG	1A	3814	1/1	0.93	0.19	58,58,58,58	0
55	MG	2A	3422	1/1	0.93	0.08	51,51,51,51	0
55	MG	1x	109	1/1	0.93	0.13	64,64,64,64	0
55	MG	2A	3224	1/1	0.93	0.28	56,56,56,56	0
55	MG	2A	3428	1/1	0.93	0.19	44,44,44,44	0
55	MG	2A	3003	1/1	0.93	0.25	55,55,55,55	0
55	MG	1A	3546	1/1	0.93	0.20	49,49,49,49	0
55	MG	1A	3548	1/1	0.93	0.13	70,70,70,70	0
55	MG	1A	3313	1/1	0.93	0.18	53,53,53,53	0
55	MG	1A	3070	1/1	0.93	0.19	35,35,35,35	0
55	MG	2A	3011	1/1	0.93	0.07	52,52,52,52	0
55	MG	1A	4094	1/1	0.93	0.18	56,56,56,56	0
55	MG	1A	3553	1/1	0.93	0.17	50,50,50,50	0
55	MG	1A	3554	1/1	0.93	0.12	64,64,64,64	0
55	MG	2A	3444	1/1	0.93	0.10	63,63,63,63	0
55	MG	2a	3145	1/1	0.93	0.27	63,63,63,63	0
55	MG	1a	1625	1/1	0.93	0.17	52,52,52,52	0
55	MG	2A	3790	1/1	0.93	0.16	68,68,68,68	0
55	MG	2A	3025	1/1	0.93	0.26	62,62,62,62	0
55	MG	2a	3153	1/1	0.93	0.09	74,74,74,74	0
55	MG	2a	3154	1/1	0.93	0.12	74,74,74,74	0
55	MG	2A	3241	1/1	0.93	0.08	58,58,58,58	0
55	MG	2A	3802	1/1	0.93	0.10	46,46,46,46	0
55	MG	1A	3052	1/1	0.93	0.25	54,54,54,54	0
55	MG	1A	3125	1/1	0.93	0.15	64,64,64,64	0
55	MG	1a	1628	1/1	0.93	0.10	57,57,57,57	0
55	MG	2a	3160	1/1	0.93	0.14	66,66,66,66	0
55	MG	1A	3073	1/1	0.93	0.42	44,44,44,44	0
55	MG	2A	3819	1/1	0.93	0.07	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
55	MG	2A	3455	1/1	0.93	0.18	53,53,53,53	0
55	MG	2A	3249	1/1	0.93	0.22	56,56,56,56	0
55	MG	1A	3458	1/1	0.93	0.17	55,55,55,55	0
55	MG	1A	3561	1/1	0.93	0.20	34,34,34,34	0
55	MG	1A	3563	1/1	0.93	0.06	36,36,36,36	0
55	MG	2A	3462	1/1	0.93	0.29	65,65,65,65	0
55	MG	1A	3259	1/1	0.93	0.14	44,44,44,44	0
55	MG	2a	3183	1/1	0.93	0.15	64,64,64,64	0
55	MG	2A	3840	1/1	0.93	0.21	66,66,66,66	0
55	MG	1a	1636	1/1	0.93	0.12	54,54,54,54	0
55	MG	1B	208	1/1	0.93	0.29	66,66,66,66	0
55	MG	1A	3462	1/1	0.93	0.14	59,59,59,59	0
55	MG	1A	3194	1/1	0.93	0.59	44,44,44,44	0
55	MG	1A	3570	1/1	0.93	0.23	50,50,50,50	0
55	MG	2A	3259	1/1	0.93	0.29	65,65,65,65	0
55	MG	1a	1641	1/1	0.93	0.13	62,62,62,62	0
55	MG	1A	3574	1/1	0.93	0.34	51,51,51,51	0
55	MG	1A	3576	1/1	0.93	0.09	48,48,48,48	0
55	MG	2a	3196	1/1	0.93	0.09	64,64,64,64	0
55	MG	1A	3017	1/1	0.93	0.18	57,57,57,57	0
55	MG	1a	1646	1/1	0.93	0.24	50,50,50,50	0
55	MG	2A	3478	1/1	0.93	0.24	62,62,62,62	0
55	MG	1A	3580	1/1	0.93	0.12	45,45,45,45	0
55	MG	1A	3466	1/1	0.93	0.39	57,57,57,57	0
55	MG	1A	3387	1/1	0.93	0.42	47,47,47,47	0
55	MG	1A	3584	1/1	0.93	0.09	43,43,43,43	0
55	MG	2A	3055	1/1	0.93	0.15	48,48,48,48	0
55	MG	1a	1653	1/1	0.93	0.18	45,45,45,45	0
55	MG	1A	3861	1/1	0.93	0.09	59,59,59,59	0
55	MG	1a	1657	1/1	0.93	0.15	63,63,63,63	0
55	MG	1A	3468	1/1	0.93	0.29	51,51,51,51	0
55	MG	1A	3161	1/1	0.93	0.32	42,42,42,42	0
55	MG	1A	3163	1/1	0.93	0.33	45,45,45,45	0
55	MG	2A	3064	1/1	0.93	0.07	47,47,47,47	0
55	MG	2A	3494	1/1	0.93	0.47	59,59,59,59	0
55	MG	1A	3390	1/1	0.93	0.10	60,60,60,60	0
55	MG	1A	3876	1/1	0.93	0.06	42,42,42,42	0
55	MG	1A	3593	1/1	0.93	0.24	58,58,58,58	0
55	MG	1D	308	1/1	0.93	0.22	60,60,60,60	0
55	MG	1A	3266	1/1	0.93	0.21	75,75,75,75	0
55	MG	2A	3505	1/1	0.93	0.08	72,72,72,72	0
55	MG	1A	3882	1/1	0.93	0.14	46,46,46,46	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3038	1/1	0.93	0.41	48,48,48,48	0
55	MG	1A	3596	1/1	0.93	0.10	52,52,52,52	0
55	MG	2A	3077	1/1	0.93	0.14	51,51,51,51	0
55	MG	1E	308	1/1	0.93	0.11	68,68,68,68	0
55	MG	1A	3066	1/1	0.93	0.34	63,63,63,63	0
55	MG	1A	3166	1/1	0.93	0.12	43,43,43,43	0
55	MG	2A	3296	1/1	0.93	0.10	74,74,74,74	0
55	MG	1E	313	1/1	0.93	0.27	50,50,50,50	0
55	MG	2T	201	1/1	0.93	0.09	62,62,62,62	0
55	MG	2A	3531	1/1	0.93	0.10	68,68,68,68	0
55	MG	2T	204	1/1	0.93	0.09	58,58,58,58	0
55	MG	1A	3600	1/1	0.93	0.07	46,46,46,46	0
55	MG	1A	3403	1/1	0.93	0.12	56,56,56,56	0
55	MG	1A	3105	1/1	0.93	0.07	50,50,50,50	0
55	MG	2A	3090	1/1	0.93	0.19	67,67,67,67	0
55	MG	2X	101	1/1	0.93	0.12	74,74,74,74	0
55	MG	1A	3216	1/1	0.93	0.18	49,49,49,49	0
55	MG	1F	310	1/1	0.93	0.14	58,58,58,58	0
55	MG	2A	3558	1/1	0.93	0.16	54,54,54,54	0
55	MG	1A	3137	1/1	0.93	0.14	46,46,46,46	0
55	MG	1A	3276	1/1	0.93	0.15	60,60,60,60	0
55	MG	1A	3282	1/1	0.93	0.25	33,33,33,33	0
55	MG	1N	203	1/1	0.93	0.10	55,55,55,55	0
55	MG	2x	103	1/1	0.93	0.16	76,76,76,76	0
55	MG	1a	1691	1/1	0.93	0.10	52,52,52,52	0
55	MG	27	101	1/1	0.93	0.14	56,56,56,56	0
55	MG	1N	205	1/1	0.93	0.18	56,56,56,56	0
55	MG	2A	3311	1/1	0.93	0.15	48,48,48,48	0
55	MG	20	103	1/1	0.94	0.21	84,84,84,84	0
55	MG	2A	3586	1/1	0.94	0.06	60,60,60,60	0
55	MG	1A	4078	1/1	0.94	0.09	42,42,42,42	0
55	MG	1A	4079	1/1	0.94	0.08	36,36,36,36	0
55	MG	13	105	1/1	0.94	0.13	65,65,65,65	0
55	MG	1a	1749	1/1	0.94	0.09	66,66,66,66	0
55	MG	13	107	1/1	0.94	0.15	59,59,59,59	0
55	MG	1A	3500	1/1	0.94	0.46	43,43,43,43	0
55	MG	1A	3304	1/1	0.94	0.11	39,39,39,39	0
55	MG	2A	3602	1/1	0.94	0.11	61,61,61,61	0
55	MG	1a	1761	1/1	0.94	0.13	62,62,62,62	0
55	MG	2A	3154	1/1	0.94	0.34	52,52,52,52	0
55	MG	1A	3118	1/1	0.94	0.23	50,50,50,50	0
55	MG	2A	3607	1/1	0.94	0.12	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
55	MG	1A	4086	1/1	0.94	0.09	66,66,66,66	0
55	MG	15	105	1/1	0.94	0.25	42,42,42,42	0
55	MG	1A	3090	1/1	0.94	0.12	57,57,57,57	0
55	MG	2a	3013	1/1	0.94	0.13	59,59,59,59	0
55	MG	1A	3504	1/1	0.94	0.10	71,71,71,71	0
55	MG	1A	3091	1/1	0.94	0.10	45,45,45,45	0
55	MG	2A	3619	1/1	0.94	0.07	41,41,41,41	0
55	MG	2A	3621	1/1	0.94	0.17	59,59,59,59	0
55	MG	1a	1772	1/1	0.94	0.07	62,62,62,62	0
55	MG	2A	3344	1/1	0.94	0.14	74,74,74,74	0
55	MG	1A	3042	1/1	0.94	0.24	39,39,39,39	0
55	MG	2A	3628	1/1	0.94	0.17	59,59,59,59	0
55	MG	17	104	1/1	0.94	0.07	50,50,50,50	0
55	MG	1A	3507	1/1	0.94	0.48	71,71,71,71	0
55	MG	1A	3200	1/1	0.94	0.18	33,33,33,33	0
55	MG	1A	3610	1/1	0.94	0.10	50,50,50,50	0
55	MG	1a	1788	1/1	0.94	0.18	81,81,81,81	0
55	MG	2A	3172	1/1	0.94	0.19	75,75,75,75	0
55	MG	1A	3202	1/1	0.94	0.12	53,53,53,53	0
55	MG	1a	1790	1/1	0.94	0.07	54,54,54,54	0
55	MG	1A	3616	1/1	0.94	0.08	47,47,47,47	0
55	MG	18	106	1/1	0.94	0.17	45,45,45,45	0
55	MG	2A	3650	1/1	0.94	0.13	58,58,58,58	0
55	MG	1A	3865	1/1	0.94	0.08	69,69,69,69	0
55	MG	1A	3866	1/1	0.94	0.07	29,29,29,29	0
55	MG	1A	3620	1/1	0.94	0.09	70,70,70,70	0
55	MG	1A	3203	1/1	0.94	0.15	51,51,51,51	0
55	MG	2A	3655	1/1	0.94	0.16	71,71,71,71	0
55	MG	2A	3367	1/1	0.94	0.11	55,55,55,55	0
55	MG	1A	3316	1/1	0.94	0.29	62,62,62,62	0
55	MG	2A	3659	1/1	0.94	0.16	54,54,54,54	0
55	MG	1A	3018	1/1	0.94	0.17	47,47,47,47	0
55	MG	1A	3518	1/1	0.94	0.14	61,61,61,61	0
55	MG	1a	1607	1/1	0.94	0.09	61,61,61,61	0
55	MG	2a	3047	1/1	0.94	0.12	63,63,63,63	0
55	MG	2A	3372	1/1	0.94	0.35	60,60,60,60	0
55	MG	1a	1608	1/1	0.94	0.27	71,71,71,71	0
55	MG	1B	207	1/1	0.94	0.15	63,63,63,63	0
55	MG	1A	3319	1/1	0.94	0.22	57,57,57,57	0
55	MG	1A	3160	1/1	0.94	0.14	70,70,70,70	0
55	MG	1A	3884	1/1	0.94	0.32	47,47,47,47	0
55	MG	1A	3446	1/1	0.94	0.32	44,44,44,44	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3019	1/1	0.94	0.17	32,32,32,32	0
55	MG	2a	3057	1/1	0.94	0.11	70,70,70,70	0
55	MG	1A	3127	1/1	0.94	0.10	38,38,38,38	0
55	MG	2a	3060	1/1	0.94	0.18	49,49,49,49	0
55	MG	1A	3267	1/1	0.94	0.16	67,67,67,67	0
55	MG	1A	3451	1/1	0.94	0.09	55,55,55,55	0
55	MG	1A	3661	1/1	0.94	0.05	47,47,47,47	0
55	MG	1A	3326	1/1	0.94	0.22	45,45,45,45	0
55	MG	2A	3386	1/1	0.94	0.15	41,41,41,41	0
55	MG	1B	225	1/1	0.94	0.12	59,59,59,59	0
55	MG	1A	3899	1/1	0.94	0.07	49,49,49,49	0
55	MG	2A	3683	1/1	0.94	0.05	69,69,69,69	0
55	MG	1A	3668	1/1	0.94	0.18	48,48,48,48	0
55	MG	2A	3390	1/1	0.94	0.27	50,50,50,50	0
55	MG	1x	110	1/1	0.94	0.12	62,62,62,62	0
55	MG	1A	3532	1/1	0.94	0.23	35,35,35,35	0
55	MG	1A	3268	1/1	0.94	0.40	46,46,46,46	0
55	MG	2A	3005	1/1	0.94	0.22	54,54,54,54	0
55	MG	1A	3911	1/1	0.94	0.14	42,42,42,42	0
55	MG	1A	3912	1/1	0.94	0.07	64,64,64,64	0
55	MG	2A	3209	1/1	0.94	0.17	55,55,55,55	0
55	MG	2A	3400	1/1	0.94	0.10	76,76,76,76	0
55	MG	2A	3702	1/1	0.94	0.11	45,45,45,45	0
55	MG	1B	235	1/1	0.94	0.14	48,48,48,48	0
55	MG	2a	3084	1/1	0.94	0.14	70,70,70,70	0
55	MG	1A	3536	1/1	0.94	0.22	43,43,43,43	0
55	MG	1A	3211	1/1	0.94	0.11	50,50,50,50	0
55	MG	2A	3017	1/1	0.94	0.17	53,53,53,53	0
55	MG	1A	3917	1/1	0.94	0.16	64,64,64,64	0
55	MG	2A	3711	1/1	0.94	0.08	60,60,60,60	0
55	MG	1A	3456	1/1	0.94	0.15	67,67,67,67	0
55	MG	1A	3702	1/1	0.94	0.07	29,29,29,29	0
55	MG	1A	3212	1/1	0.94	0.33	43,43,43,43	0
55	MG	1a	1642	1/1	0.94	0.09	77,77,77,77	0
55	MG	1A	3716	1/1	0.94	0.17	67,67,67,67	0
55	MG	1A	3719	1/1	0.94	0.13	66,66,66,66	0
55	MG	2A	3227	1/1	0.94	0.17	59,59,59,59	0
55	MG	1A	3015	1/1	0.94	0.30	56,56,56,56	0
55	MG	1A	3037	1/1	0.94	0.13	25,25,25,25	0
55	MG	2A	3418	1/1	0.94	0.14	66,66,66,66	0
55	MG	1A	3218	1/1	0.94	0.08	67,67,67,67	0
55	MG	1A	3222	1/1	0.94	0.26	51,51,51,51	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	2A	3421	1/1	0.94	0.18	56,56,56,56	0
55	MG	2A	3732	1/1	0.94	0.06	73,73,73,73	0
55	MG	2a	3109	1/1	0.94	0.06	75,75,75,75	0
55	MG	1a	1650	1/1	0.94	0.13	45,45,45,45	0
55	MG	1A	3549	1/1	0.94	0.05	70,70,70,70	0
55	MG	1A	3076	1/1	0.94	0.14	41,41,41,41	0
55	MG	2A	3738	1/1	0.94	0.12	65,65,65,65	0
55	MG	1A	3729	1/1	0.94	0.11	52,52,52,52	0
55	MG	2A	3740	1/1	0.94	0.07	48,48,48,48	0
55	MG	1a	1655	1/1	0.94	0.11	63,63,63,63	0
55	MG	1F	309	1/1	0.94	0.28	39,39,39,39	0
55	MG	2A	3238	1/1	0.94	0.11	76,76,76,76	0
55	MG	2A	3239	1/1	0.94	0.13	70,70,70,70	0
55	MG	2A	3434	1/1	0.94	0.07	71,71,71,71	0
55	MG	2A	3240	1/1	0.94	0.12	65,65,65,65	0
55	MG	1A	3277	1/1	0.94	0.12	69,69,69,69	0
55	MG	1a	1659	1/1	0.94	0.13	73,73,73,73	0
55	MG	2A	3245	1/1	0.94	0.20	70,70,70,70	0
55	MG	1G	202	1/1	0.94	0.24	50,50,50,50	0
55	MG	1A	3131	1/1	0.94	0.15	40,40,40,40	0
55	MG	1A	3964	1/1	0.94	0.09	70,70,70,70	0
55	MG	1G	205	1/1	0.94	0.13	57,57,57,57	0
55	MG	1A	3968	1/1	0.94	0.06	41,41,41,41	0
55	MG	1N	201	1/1	0.94	0.10	57,57,57,57	0
55	MG	2A	3765	1/1	0.94	0.07	59,59,59,59	0
55	MG	1A	3396	1/1	0.94	0.66	43,43,43,43	0
55	MG	2A	3768	1/1	0.94	0.07	45,45,45,45	0
55	MG	2A	3769	1/1	0.94	0.07	63,63,63,63	0
55	MG	1A	3400	1/1	0.94	0.68	50,50,50,50	0
55	MG	1A	3740	1/1	0.94	0.10	58,58,58,58	0
55	MG	1A	3342	1/1	0.94	0.36	45,45,45,45	0
55	MG	2A	3456	1/1	0.94	0.14	61,61,61,61	0
55	MG	1A	3404	1/1	0.94	0.13	56,56,56,56	0
55	MG	1A	3747	1/1	0.94	0.09	58,58,58,58	0
55	MG	2A	3459	1/1	0.94	0.06	75,75,75,75	0
55	MG	2A	3782	1/1	0.94	0.12	81,81,81,81	0
55	MG	2A	3784	1/1	0.94	0.05	65,65,65,65	0
55	MG	1A	3284	1/1	0.94	0.69	49,49,49,49	0
55	MG	2A	3062	1/1	0.94	0.24	54,54,54,54	0
55	MG	2A	3787	1/1	0.94	0.14	60,60,60,60	0
55	MG	2A	3260	1/1	0.94	0.10	71,71,71,71	0
55	MG	2A	3793	1/1	0.94	0.13	57,57,57,57	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3985	1/1	0.94	0.09	67,67,67,67	0
55	MG	1A	3100	1/1	0.94	0.09	33,33,33,33	0
55	MG	1A	3004	1/1	0.94	0.06	39,39,39,39	0
55	MG	2A	3803	1/1	0.94	0.11	49,49,49,49	0
55	MG	1A	3081	1/1	0.94	0.08	61,61,61,61	0
55	MG	1A	3997	1/1	0.94	0.23	56,56,56,56	0
55	MG	2a	3161	1/1	0.94	0.09	67,67,67,67	0
55	MG	1A	3008	1/1	0.94	0.08	33,33,33,33	0
55	MG	1A	3107	1/1	0.94	0.11	58,58,58,58	0
55	MG	2A	3813	1/1	0.94	0.10	61,61,61,61	0
55	MG	2A	3815	1/1	0.94	0.07	51,51,51,51	0
55	MG	2A	3471	1/1	0.94	0.20	57,57,57,57	0
55	MG	1A	3771	1/1	0.94	0.20	41,41,41,41	0
55	MG	2A	3825	1/1	0.94	0.11	47,47,47,47	0
55	MG	2A	3473	1/1	0.94	0.14	60,60,60,60	0
55	MG	1A	4003	1/1	0.94	0.11	25,25,25,25	0
55	MG	1A	4004	1/1	0.94	0.06	28,28,28,28	0
55	MG	1S	202	1/1	0.94	0.11	47,47,47,47	0
55	MG	1A	3173	1/1	0.94	0.09	52,52,52,52	0
55	MG	1A	3572	1/1	0.94	0.74	48,48,48,48	0
55	MG	1A	3788	1/1	0.94	0.06	46,46,46,46	0
55	MG	1A	3086	1/1	0.94	0.30	40,40,40,40	0
55	MG	2A	3085	1/1	0.94	0.24	49,49,49,49	0
55	MG	1A	3483	1/1	0.94	0.10	57,57,57,57	0
55	MG	1U	206	1/1	0.94	0.36	43,43,43,43	0
55	MG	1A	4024	1/1	0.94	0.08	68,68,68,68	0
55	MG	1a	1700	1/1	0.94	0.10	64,64,64,64	0
55	MG	1U	208	1/1	0.94	0.43	42,42,42,42	0
55	MG	1A	3803	1/1	0.94	0.09	64,64,64,64	0
55	MG	1A	3578	1/1	0.94	0.49	44,44,44,44	0
55	MG	1A	3112	1/1	0.94	0.38	41,41,41,41	0
55	MG	2A	3492	1/1	0.94	0.21	53,53,53,53	0
55	MG	2A	3096	1/1	0.94	0.13	43,43,43,43	0
55	MG	1A	3485	1/1	0.94	0.17	40,40,40,40	0
55	MG	1W	203	1/1	0.94	0.20	38,38,38,38	0
55	MG	2A	3293	1/1	0.94	0.12	66,66,66,66	0
55	MG	2A	3497	1/1	0.94	0.16	42,42,42,42	0
55	MG	1A	3358	1/1	0.94	0.18	49,49,49,49	0
55	MG	1A	3359	1/1	0.94	0.19	60,60,60,60	0
55	MG	1A	3826	1/1	0.94	0.18	61,61,61,61	0
55	MG	1X	102	1/1	0.94	0.10	47,47,47,47	0
55	MG	1A	3027	1/1	0.94	0.20	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
55	MG	2A	3108	1/1	0.94	0.15	56,56,56,56	0
55	MG	2A	3509	1/1	0.94	0.18	62,62,62,62	0
55	MG	1X	106	1/1	0.94	0.11	66,66,66,66	0
55	MG	2A	3514	1/1	0.94	0.10	57,57,57,57	0
55	MG	2A	3110	1/1	0.94	0.09	54,54,54,54	0
55	MG	1A	3361	1/1	0.94	0.07	61,61,61,61	0
55	MG	1A	3490	1/1	0.94	0.09	45,45,45,45	0
55	MG	2E	302	1/1	0.94	0.32	63,63,63,63	0
55	MG	2E	304	1/1	0.94	0.15	55,55,55,55	0
55	MG	2A	3115	1/1	0.94	0.09	61,61,61,61	0
55	MG	2E	306	1/1	0.94	0.05	62,62,62,62	0
55	MG	2a	3223	1/1	0.94	0.10	63,63,63,63	0
55	MG	2A	3525	1/1	0.94	0.10	40,40,40,40	0
55	MG	2A	3116	1/1	0.94	0.24	61,61,61,61	0
55	MG	1Z	301	1/1	0.94	0.08	64,64,64,64	0
55	MG	1A	3491	1/1	0.94	0.08	57,57,57,57	0
55	MG	2A	3537	1/1	0.94	0.10	54,54,54,54	0
55	MG	1A	3423	1/1	0.94	0.30	59,59,59,59	0
55	MG	1A	3183	1/1	0.94	0.11	57,57,57,57	0
55	MG	2f	202	1/1	0.94	0.20	63,63,63,63	0
55	MG	2A	3121	1/1	0.94	0.07	93,93,93,93	0
55	MG	2A	3122	1/1	0.94	0.09	51,51,51,51	0
55	MG	1A	3496	1/1	0.94	0.26	58,58,58,58	0
55	MG	1A	3147	1/1	0.94	0.32	34,34,34,34	0
55	MG	2R	204	1/1	0.94	0.08	55,55,55,55	0
55	MG	10	105	1/1	0.94	0.12	50,50,50,50	0
55	MG	2T	202	1/1	0.94	0.09	62,62,62,62	0
55	MG	1A	4070	1/1	0.94	0.16	60,60,60,60	0
55	MG	2A	3130	1/1	0.94	0.15	49,49,49,49	0
55	MG	2U	201	1/1	0.94	0.30	59,59,59,59	0
55	MG	2A	3133	1/1	0.94	0.12	50,50,50,50	0
55	MG	1A	4071	1/1	0.94	0.07	30,30,30,30	0
55	MG	1A	3498	1/1	0.94	0.43	53,53,53,53	0
55	MG	1A	3117	1/1	0.94	0.08	56,56,56,56	0
55	MG	1a	1739	1/1	0.94	0.10	49,49,49,49	0
55	MG	1A	4077	1/1	0.94	0.09	54,54,54,54	0
55	MG	1a	1741	1/1	0.94	0.19	55,55,55,55	0
55	MG	2A	3580	1/1	0.94	0.07	64,64,64,64	0
55	MG	2A	3325	1/1	0.94	0.12	62,62,62,62	0
55	MG	1A	3608	1/1	0.95	0.30	50,50,50,50	0
55	MG	1A	3831	1/1	0.95	0.10	55,55,55,55	0
55	MG	1Q	206	1/1	0.95	0.07	33,33,33,33	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3030	1/1	0.95	0.22	43,43,43,43	0
55	MG	1A	3114	1/1	0.95	0.10	47,47,47,47	0
55	MG	1R	204	1/1	0.95	0.05	38,38,38,38	0
55	MG	1a	1677	1/1	0.95	0.15	52,52,52,52	0
55	MG	1A	3185	1/1	0.95	0.05	55,55,55,55	0
55	MG	1A	3365	1/1	0.95	0.19	46,46,46,46	0
55	MG	2A	3687	1/1	0.95	0.07	51,51,51,51	0
55	MG	1A	3618	1/1	0.95	0.15	49,49,49,49	0
55	MG	2A	3242	1/1	0.95	0.19	61,61,61,61	0
55	MG	1a	1681	1/1	0.95	0.08	51,51,51,51	0
55	MG	2A	3244	1/1	0.95	0.11	69,69,69,69	0
55	MG	1A	3535	1/1	0.95	0.14	39,39,39,39	0
55	MG	2A	3425	1/1	0.95	0.19	47,47,47,47	0
55	MG	2A	3427	1/1	0.95	0.32	49,49,49,49	0
55	MG	1A	3136	1/1	0.95	0.10	49,49,49,49	0
55	MG	2A	3698	1/1	0.95	0.16	52,52,52,52	0
55	MG	1U	201	1/1	0.95	0.41	42,42,42,42	0
55	MG	1A	3419	1/1	0.95	0.17	50,50,50,50	0
55	MG	1A	3633	1/1	0.95	0.11	30,30,30,30	0
55	MG	1U	205	1/1	0.95	0.21	48,48,48,48	0
55	MG	1A	3162	1/1	0.95	0.15	46,46,46,46	0
55	MG	2A	3436	1/1	0.95	0.21	64,64,64,64	0
55	MG	1A	4045	1/1	0.95	0.06	57,57,57,57	0
55	MG	1A	3540	1/1	0.95	0.13	29,29,29,29	0
55	MG	1A	3541	1/1	0.95	0.15	33,33,33,33	0
55	MG	1A	3641	1/1	0.95	0.06	37,37,37,37	0
55	MG	1V	206	1/1	0.95	0.21	37,37,37,37	0
55	MG	1A	3193	1/1	0.95	0.30	49,49,49,49	0
55	MG	1A	4065	1/1	0.95	0.18	70,70,70,70	0
55	MG	1A	3369	1/1	0.95	0.23	67,67,67,67	0
55	MG	2a	3054	1/1	0.95	0.10	58,58,58,58	0
55	MG	2A	3721	1/1	0.95	0.24	59,59,59,59	0
55	MG	1A	3082	1/1	0.95	0.17	47,47,47,47	0
55	MG	1A	4073	1/1	0.95	0.08	49,49,49,49	0
55	MG	1A	3424	1/1	0.95	0.18	49,49,49,49	0
55	MG	1A	3547	1/1	0.95	0.15	55,55,55,55	0
55	MG	2a	3061	1/1	0.95	0.08	85,85,85,85	0
55	MG	2A	3453	1/1	0.95	0.18	55,55,55,55	0
55	MG	1A	3656	1/1	0.95	0.21	38,38,38,38	0
55	MG	2A	3265	1/1	0.95	0.17	63,63,63,63	0
55	MG	1A	3427	1/1	0.95	0.09	47,47,47,47	0
55	MG	1A	3864	1/1	0.95	0.12	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
55	MG	2a	3067	1/1	0.95	0.13	56,56,56,56	0
55	MG	1A	3660	1/1	0.95	0.13	39,39,39,39	0
55	MG	1A	3233	1/1	0.95	0.08	41,41,41,41	0
55	MG	1A	3867	1/1	0.95	0.19	39,39,39,39	0
55	MG	1A	3274	1/1	0.95	0.09	57,57,57,57	0
55	MG	1A	3664	1/1	0.95	0.08	47,47,47,47	0
55	MG	10	102	1/1	0.95	0.17	51,51,51,51	0
55	MG	1A	3667	1/1	0.95	0.06	43,43,43,43	0
55	MG	1A	3083	1/1	0.95	0.10	44,44,44,44	0
55	MG	1A	3552	1/1	0.95	0.37	48,48,48,48	0
55	MG	1A	3675	1/1	0.95	0.09	68,68,68,68	0
55	MG	2A	3100	1/1	0.95	0.15	47,47,47,47	0
55	MG	2A	3749	1/1	0.95	0.14	58,58,58,58	0
55	MG	1A	3325	1/1	0.95	0.21	50,50,50,50	0
55	MG	1A	3139	1/1	0.95	0.22	38,38,38,38	0
55	MG	1a	1727	1/1	0.95	0.11	62,62,62,62	0
55	MG	1A	3555	1/1	0.95	0.20	47,47,47,47	0
55	MG	2A	3106	1/1	0.95	0.08	68,68,68,68	0
55	MG	2a	3087	1/1	0.95	0.17	63,63,63,63	0
55	MG	2A	3107	1/1	0.95	0.09	45,45,45,45	0
55	MG	1A	3886	1/1	0.95	0.29	38,38,38,38	0
55	MG	1A	3239	1/1	0.95	0.15	41,41,41,41	0
55	MG	1A	4099	1/1	0.95	0.17	54,54,54,54	0
55	MG	13	104	1/1	0.95	0.07	53,53,53,53	0
55	MG	1A	3329	1/1	0.95	0.27	58,58,58,58	0
55	MG	2A	3481	1/1	0.95	0.05	42,42,42,42	0
55	MG	2A	3114	1/1	0.95	0.04	77,77,77,77	0
55	MG	13	106	1/1	0.95	0.17	47,47,47,47	0
55	MG	1A	3705	1/1	0.95	0.06	66,66,66,66	0
55	MG	2A	3485	1/1	0.95	0.06	44,44,44,44	0
55	MG	1A	3280	1/1	0.95	0.32	51,51,51,51	0
55	MG	1A	3333	1/1	0.95	0.13	50,50,50,50	0
55	MG	2A	3777	1/1	0.95	0.21	73,73,73,73	0
55	MG	1A	3198	1/1	0.95	0.38	46,46,46,46	0
55	MG	1B	205	1/1	0.95	0.12	45,45,45,45	0
55	MG	1A	3495	1/1	0.95	0.15	70,70,70,70	0
55	MG	2A	3783	1/1	0.95	0.13	55,55,55,55	0
55	MG	1A	3564	1/1	0.95	0.19	53,53,53,53	0
55	MG	1A	3043	1/1	0.95	0.21	43,43,43,43	0
55	MG	1a	1754	1/1	0.95	0.07	45,45,45,45	0
55	MG	17	101	1/1	0.95	0.20	44,44,44,44	0
55	MG	1a	1756	1/1	0.95	0.10	63,63,63,63	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3285	1/1	0.95	0.07	61,61,61,61	0
55	MG	2A	3794	1/1	0.95	0.16	58,58,58,58	0
55	MG	2A	3132	1/1	0.95	0.13	48,48,48,48	0
55	MG	2A	3799	1/1	0.95	0.10	71,71,71,71	0
55	MG	1A	3243	1/1	0.95	0.24	41,41,41,41	0
55	MG	1a	1763	1/1	0.95	0.08	62,62,62,62	0
55	MG	2a	3120	1/1	0.95	0.20	62,62,62,62	0
55	MG	2A	3501	1/1	0.95	0.09	77,77,77,77	0
55	MG	1A	3244	1/1	0.95	0.12	61,61,61,61	0
55	MG	2A	3136	1/1	0.95	0.21	44,44,44,44	0
55	MG	1B	212	1/1	0.95	0.28	63,63,63,63	0
55	MG	1A	3245	1/1	0.95	0.09	42,42,42,42	0
55	MG	2A	3508	1/1	0.95	0.09	44,44,44,44	0
55	MG	2A	3141	1/1	0.95	0.08	62,62,62,62	0
55	MG	1A	3071	1/1	0.95	0.08	20,20,20,20	0
55	MG	2A	3144	1/1	0.95	0.10	64,64,64,64	0
55	MG	2A	3823	1/1	0.95	0.07	80,80,80,80	0
55	MG	1a	1769	1/1	0.95	0.07	56,56,56,56	0
55	MG	1B	215	1/1	0.95	0.11	55,55,55,55	0
55	MG	1B	217	1/1	0.95	0.17	40,40,40,40	0
55	MG	1A	3732	1/1	0.95	0.07	53,53,53,53	0
55	MG	2A	3830	1/1	0.95	0.20	49,49,49,49	0
55	MG	1B	220	1/1	0.95	0.15	34,34,34,34	0
55	MG	2A	3528	1/1	0.95	0.10	60,60,60,60	0
55	MG	1a	1783	1/1	0.95	0.07	49,49,49,49	0
55	MG	1A	3918	1/1	0.95	0.07	50,50,50,50	0
55	MG	1A	3248	1/1	0.95	0.28	50,50,50,50	0
55	MG	2A	3532	1/1	0.95	0.18	55,55,55,55	0
55	MG	2A	3327	1/1	0.95	0.23	46,46,46,46	0
55	MG	2A	3846	1/1	0.95	0.07	66,66,66,66	0
55	MG	1A	3143	1/1	0.95	0.09	26,26,26,26	0
55	MG	2A	3849	1/1	0.95	0.13	48,48,48,48	0
55	MG	1A	3449	1/1	0.95	0.13	46,46,46,46	0
55	MG	2a	3148	1/1	0.95	0.17	54,54,54,54	0
55	MG	1A	3087	1/1	0.95	0.36	45,45,45,45	0
55	MG	2a	3151	1/1	0.95	0.17	80,80,80,80	0
55	MG	2a	3152	1/1	0.95	0.05	70,70,70,70	0
55	MG	1A	3744	1/1	0.95	0.07	76,76,76,76	0
55	MG	2A	3551	1/1	0.95	0.12	48,48,48,48	0
55	MG	1a	1791	1/1	0.95	0.08	79,79,79,79	0
55	MG	1A	3392	1/1	0.95	0.20	52,52,52,52	0
55	MG	1B	230	1/1	0.95	0.07	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
55	MG	1A	3930	1/1	0.95	0.06	42,42,42,42	0
55	MG	1A	3937	1/1	0.95	0.11	43,43,43,43	0
55	MG	1A	3938	1/1	0.95	0.07	63,63,63,63	0
55	MG	1A	3582	1/1	0.95	0.28	66,66,66,66	0
55	MG	2A	3164	1/1	0.95	0.09	42,42,42,42	0
55	MG	1A	3009	1/1	0.95	0.08	37,37,37,37	0
55	MG	1A	3750	1/1	0.95	0.09	43,43,43,43	0
55	MG	1A	3951	1/1	0.95	0.08	29,29,29,29	0
55	MG	1a	1620	1/1	0.95	0.10	68,68,68,68	0
55	MG	1A	3509	1/1	0.95	0.22	46,46,46,46	0
55	MG	2a	3176	1/1	0.95	0.05	77,77,77,77	0
55	MG	1a	1811	1/1	0.95	0.07	62,62,62,62	0
55	MG	2a	3178	1/1	0.95	0.13	60,60,60,60	0
55	MG	1A	3010	1/1	0.95	0.06	50,50,50,50	0
55	MG	2A	3589	1/1	0.95	0.07	51,51,51,51	0
55	MG	1A	3957	1/1	0.95	0.06	73,73,73,73	0
55	MG	1A	3106	1/1	0.95	0.12	43,43,43,43	0
55	MG	1E	306	1/1	0.95	0.07	42,42,42,42	0
55	MG	2A	3597	1/1	0.95	0.06	34,34,34,34	0
55	MG	2D	306	1/1	0.95	0.11	64,64,64,64	0
55	MG	1E	307	1/1	0.95	0.12	56,56,56,56	0
55	MG	2E	303	1/1	0.95	0.14	58,58,58,58	0
55	MG	1l	201	1/1	0.95	0.09	72,72,72,72	0
55	MG	1A	3064	1/1	0.95	0.33	44,44,44,44	0
55	MG	2A	3355	1/1	0.95	0.12	56,56,56,56	0
55	MG	2E	308	1/1	0.95	0.06	42,42,42,42	0
55	MG	1A	3589	1/1	0.95	0.09	58,58,58,58	0
55	MG	1A	3762	1/1	0.95	0.07	55,55,55,55	0
55	MG	1A	3110	1/1	0.95	0.31	53,53,53,53	0
55	MG	1A	3768	1/1	0.95	0.15	51,51,51,51	0
55	MG	1F	302	1/1	0.95	0.23	41,41,41,41	0
55	MG	1A	3769	1/1	0.95	0.11	58,58,58,58	0
55	MG	2A	3365	1/1	0.95	0.07	56,56,56,56	0
55	MG	2P	202	1/1	0.95	0.15	63,63,63,63	0
55	MG	1F	305	1/1	0.95	0.27	35,35,35,35	0
55	MG	1A	3770	1/1	0.95	0.08	28,28,28,28	0
55	MG	1F	307	1/1	0.95	0.08	52,52,52,52	0
55	MG	1x	111	1/1	0.95	0.15	72,72,72,72	0
55	MG	2A	3002	1/1	0.95	0.17	41,41,41,41	0
55	MG	1A	3036	1/1	0.95	0.09	56,56,56,56	0
55	MG	1A	3516	1/1	0.95	0.34	37,37,37,37	0
55	MG	1A	3305	1/1	0.95	0.32	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1G	201	1/1	0.95	0.14	35,35,35,35	0
55	MG	2A	3630	1/1	0.95	0.16	47,47,47,47	0
55	MG	1A	3982	1/1	0.95	0.06	64,64,64,64	0
55	MG	1A	3519	1/1	0.95	0.11	59,59,59,59	0
55	MG	1A	3520	1/1	0.95	0.22	49,49,49,49	0
55	MG	2W	203	1/1	0.95	0.17	52,52,52,52	0
55	MG	1A	3986	1/1	0.95	0.07	72,72,72,72	0
55	MG	1A	3598	1/1	0.95	0.27	64,64,64,64	0
55	MG	1A	3798	1/1	0.95	0.12	60,60,60,60	0
55	MG	1N	202	1/1	0.95	0.21	51,51,51,51	0
55	MG	1A	3214	1/1	0.95	0.21	55,55,55,55	0
55	MG	2A	3023	1/1	0.95	0.17	59,59,59,59	0
55	MG	1N	204	1/1	0.95	0.10	47,47,47,47	0
55	MG	1A	3804	1/1	0.95	0.10	49,49,49,49	0
55	MG	1O	201	1/1	0.95	0.18	57,57,57,57	0
55	MG	1A	3309	1/1	0.95	0.30	53,53,53,53	0
55	MG	2A	3214	1/1	0.95	0.08	53,53,53,53	0
55	MG	2A	3391	1/1	0.95	0.18	52,52,52,52	0
55	MG	1a	1658	1/1	0.95	0.15	51,51,51,51	0
55	MG	28	101	1/1	0.95	0.28	63,63,63,63	0
55	MG	28	103	1/1	0.95	0.08	54,54,54,54	0
55	MG	2a	3001	1/1	0.95	0.07	61,61,61,61	0
55	MG	1A	3180	1/1	0.95	0.14	43,43,43,43	0
55	MG	2l	204	1/1	0.95	0.05	59,59,59,59	0
55	MG	1A	3048	1/1	0.95	0.06	31,31,31,31	0
55	MG	2a	3004	1/1	0.95	0.22	62,62,62,62	0
55	MG	1A	3411	1/1	0.95	0.05	48,48,48,48	0
55	MG	1A	3821	1/1	0.95	0.10	58,58,58,58	0
55	MG	2A	3035	1/1	0.95	0.10	49,49,49,49	0
55	MG	1A	3823	1/1	0.95	0.10	42,42,42,42	0
55	MG	1A	3527	1/1	0.95	0.21	58,58,58,58	0
55	MG	1a	1665	1/1	0.95	0.06	56,56,56,56	0
55	MG	2A	3226	1/1	0.95	0.10	56,56,56,56	0
55	MG	2A	3041	1/1	0.95	0.06	47,47,47,47	0
55	MG	1A	3528	1/1	0.95	0.31	48,48,48,48	0
55	MG	1A	3827	1/1	0.95	0.17	37,37,37,37	0
55	MG	2A	3407	1/1	0.95	0.24	48,48,48,48	0
55	MG	2A	3044	1/1	0.95	0.14	29,29,29,29	0
55	MG	1A	3182	1/1	0.95	0.17	41,41,41,41	0
60	FME	1x	112	10/11	0.95	0.15	37,39,42,47	10
55	MG	1A	3508	1/1	0.96	0.09	48,48,48,48	0
55	MG	2A	3669	1/1	0.96	0.12	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
55	MG	1A	3791	1/1	0.96	0.07	42,42,42,42	0
55	MG	2A	3051	1/1	0.96	0.08	53,53,53,53	0
55	MG	1A	3278	1/1	0.96	0.18	39,39,39,39	0
55	MG	1A	3565	1/1	0.96	0.38	48,48,48,48	0
55	MG	2a	3015	1/1	0.96	0.10	60,60,60,60	0
55	MG	2A	3674	1/1	0.96	0.05	67,67,67,67	0
55	MG	1a	1699	1/1	0.96	0.30	66,66,66,66	0
55	MG	1A	4104	1/1	0.96	0.08	51,51,51,51	0
55	MG	1A	3318	1/1	0.96	0.22	54,54,54,54	0
55	MG	1a	1704	1/1	0.96	0.08	51,51,51,51	0
55	MG	1a	1705	1/1	0.96	0.19	57,57,57,57	0
55	MG	1A	3187	1/1	0.96	0.12	47,47,47,47	0
55	MG	1A	3934	1/1	0.96	0.06	50,50,50,50	0
55	MG	1A	3935	1/1	0.96	0.06	62,62,62,62	0
55	MG	1A	3650	1/1	0.96	0.06	42,42,42,42	0
55	MG	1A	3805	1/1	0.96	0.10	63,63,63,63	0
55	MG	2A	3685	1/1	0.96	0.09	72,72,72,72	0
55	MG	2A	3686	1/1	0.96	0.10	55,55,55,55	0
55	MG	2A	3065	1/1	0.96	0.07	42,42,42,42	0
55	MG	1A	3810	1/1	0.96	0.14	46,46,46,46	0
55	MG	1A	3652	1/1	0.96	0.09	29,29,29,29	0
55	MG	2A	3068	1/1	0.96	0.07	52,52,52,52	0
55	MG	1A	3249	1/1	0.96	0.44	46,46,46,46	0
55	MG	1A	3283	1/1	0.96	0.30	42,42,42,42	0
55	MG	1A	3217	1/1	0.96	0.22	46,46,46,46	0
55	MG	2A	3435	1/1	0.96	0.12	56,56,56,56	0
55	MG	1A	3095	1/1	0.96	0.11	26,26,26,26	0
55	MG	1A	3575	1/1	0.96	0.06	48,48,48,48	0
55	MG	1A	3958	1/1	0.96	0.07	84,84,84,84	0
55	MG	13	102	1/1	0.96	0.09	61,61,61,61	0
55	MG	1A	3959	1/1	0.96	0.06	66,66,66,66	0
55	MG	1A	3126	1/1	0.96	0.07	44,44,44,44	0
55	MG	2A	3080	1/1	0.96	0.35	76,76,76,76	0
55	MG	2A	3707	1/1	0.96	0.12	58,58,58,58	0
55	MG	2A	3081	1/1	0.96	0.18	69,69,69,69	0
55	MG	1B	219	1/1	0.96	0.08	44,44,44,44	0
55	MG	2A	3448	1/1	0.96	0.17	61,61,61,61	0
55	MG	1A	3577	1/1	0.96	0.19	46,46,46,46	0
55	MG	1A	3109	1/1	0.96	0.05	35,35,35,35	0
55	MG	1B	222	1/1	0.96	0.14	48,48,48,48	0
55	MG	1a	1729	1/1	0.96	0.09	55,55,55,55	0
55	MG	2A	3088	1/1	0.96	0.06	42,42,42,42	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3005	1/1	0.96	0.13	49,49,49,49	0
55	MG	15	103	1/1	0.96	0.34	46,46,46,46	0
55	MG	2A	3091	1/1	0.96	0.13	49,49,49,49	0
55	MG	1A	3966	1/1	0.96	0.14	63,63,63,63	0
55	MG	1A	3328	1/1	0.96	0.16	40,40,40,40	0
55	MG	2A	3727	1/1	0.96	0.14	46,46,46,46	0
55	MG	1A	3970	1/1	0.96	0.07	33,33,33,33	0
55	MG	1A	3085	1/1	0.96	0.06	33,33,33,33	0
55	MG	15	108	1/1	0.96	0.07	57,57,57,57	0
55	MG	16	101	1/1	0.96	0.09	60,60,60,60	0
55	MG	2A	3277	1/1	0.96	0.09	75,75,75,75	0
55	MG	1A	3330	1/1	0.96	0.13	38,38,38,38	0
55	MG	1A	3973	1/1	0.96	0.19	52,52,52,52	0
55	MG	2A	3735	1/1	0.96	0.11	62,62,62,62	0
55	MG	2A	3736	1/1	0.96	0.10	63,63,63,63	0
55	MG	2a	3071	1/1	0.96	0.16	55,55,55,55	0
55	MG	1a	1746	1/1	0.96	0.05	65,65,65,65	0
55	MG	1B	231	1/1	0.96	0.18	49,49,49,49	0
55	MG	1A	3676	1/1	0.96	0.07	43,43,43,43	0
55	MG	1A	3976	1/1	0.96	0.10	38,38,38,38	0
55	MG	1A	3835	1/1	0.96	0.06	33,33,33,33	0
55	MG	2A	3285	1/1	0.96	0.12	50,50,50,50	0
55	MG	1A	3678	1/1	0.96	0.09	34,34,34,34	0
55	MG	2A	3744	1/1	0.96	0.18	51,51,51,51	0
55	MG	1D	301	1/1	0.96	0.32	38,38,38,38	0
55	MG	1D	302	1/1	0.96	0.12	52,52,52,52	0
55	MG	1A	3061	1/1	0.96	0.06	37,37,37,37	0
55	MG	1A	3839	1/1	0.96	0.07	61,61,61,61	0
55	MG	2A	3111	1/1	0.96	0.10	48,48,48,48	0
55	MG	2A	3752	1/1	0.96	0.14	45,45,45,45	0
55	MG	2a	3086	1/1	0.96	0.14	80,80,80,80	0
55	MG	1A	3332	1/1	0.96	0.10	48,48,48,48	0
55	MG	2A	3754	1/1	0.96	0.07	47,47,47,47	0
55	MG	1A	3984	1/1	0.96	0.10	43,43,43,43	0
55	MG	2a	3090	1/1	0.96	0.10	64,64,64,64	0
55	MG	1D	311	1/1	0.96	0.09	37,37,37,37	0
55	MG	1A	3475	1/1	0.96	0.06	50,50,50,50	0
55	MG	1A	3843	1/1	0.96	0.15	49,49,49,49	0
55	MG	1E	304	1/1	0.96	0.25	40,40,40,40	0
55	MG	1A	3229	1/1	0.96	0.08	47,47,47,47	0
55	MG	1a	1771	1/1	0.96	0.10	85,85,85,85	0
55	MG	1A	3477	1/1	0.96	0.15	60,60,60,60	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1a	1774	1/1	0.96	0.07	53,53,53,53	0
55	MG	1a	1776	1/1	0.96	0.10	54,54,54,54	0
55	MG	1a	1778	1/1	0.96	0.06	64,64,64,64	0
55	MG	1A	3990	1/1	0.96	0.07	53,53,53,53	0
55	MG	2A	3126	1/1	0.96	0.35	47,47,47,47	0
55	MG	1a	1780	1/1	0.96	0.06	54,54,54,54	0
55	MG	1A	3078	1/1	0.96	0.22	44,44,44,44	0
55	MG	1A	3708	1/1	0.96	0.09	43,43,43,43	0
55	MG	2A	3131	1/1	0.96	0.10	33,33,33,33	0
55	MG	2A	3779	1/1	0.96	0.10	62,62,62,62	0
55	MG	1A	3710	1/1	0.96	0.11	45,45,45,45	0
55	MG	1a	1785	1/1	0.96	0.05	76,76,76,76	0
55	MG	2A	3499	1/1	0.96	0.06	66,66,66,66	0
55	MG	1A	3376	1/1	0.96	0.19	41,41,41,41	0
55	MG	1A	3262	1/1	0.96	0.11	52,52,52,52	0
55	MG	1A	3199	1/1	0.96	0.06	48,48,48,48	0
55	MG	2A	3503	1/1	0.96	0.10	74,74,74,74	0
55	MG	2A	3504	1/1	0.96	0.07	51,51,51,51	0
55	MG	1A	3854	1/1	0.96	0.05	54,54,54,54	0
55	MG	2A	3139	1/1	0.96	0.19	57,57,57,57	0
55	MG	1A	3297	1/1	0.96	0.11	68,68,68,68	0
55	MG	1A	3380	1/1	0.96	0.07	33,33,33,33	0
55	MG	2A	3796	1/1	0.96	0.08	57,57,57,57	0
55	MG	2A	3142	1/1	0.96	0.10	66,66,66,66	0
55	MG	1A	3858	1/1	0.96	0.10	49,49,49,49	0
55	MG	1A	3079	1/1	0.96	0.20	41,41,41,41	0
55	MG	1A	4013	1/1	0.96	0.06	32,32,32,32	0
55	MG	1A	4020	1/1	0.96	0.09	45,45,45,45	0
55	MG	2A	3519	1/1	0.96	0.14	74,74,74,74	0
55	MG	1F	311	1/1	0.96	0.10	36,36,36,36	0
55	MG	1A	3101	1/1	0.96	0.08	56,56,56,56	0
55	MG	2A	3523	1/1	0.96	0.10	47,47,47,47	0
55	MG	2A	3524	1/1	0.96	0.17	72,72,72,72	0
55	MG	2A	3816	1/1	0.96	0.14	56,56,56,56	0
55	MG	2A	3818	1/1	0.96	0.06	70,70,70,70	0
55	MG	1a	1804	1/1	0.96	0.26	55,55,55,55	0
55	MG	1A	3234	1/1	0.96	0.06	60,60,60,60	0
55	MG	2A	3821	1/1	0.96	0.13	70,70,70,70	0
55	MG	2A	3329	1/1	0.96	0.20	60,60,60,60	0
55	MG	2A	3824	1/1	0.96	0.06	61,61,61,61	0
55	MG	1A	3154	1/1	0.96	0.09	49,49,49,49	0
55	MG	1A	3021	1/1	0.96	0.16	41,41,41,41	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1a	1633	1/1	0.96	0.07	40,40,40,40	0
55	MG	1A	3306	1/1	0.96	0.23	55,55,55,55	0
55	MG	2A	3538	1/1	0.96	0.18	55,55,55,55	0
55	MG	2A	3832	1/1	0.96	0.12	45,45,45,45	0
55	MG	1A	4031	1/1	0.96	0.09	55,55,55,55	0
55	MG	1A	3345	1/1	0.96	0.34	54,54,54,54	0
55	MG	1A	3736	1/1	0.96	0.11	57,57,57,57	0
55	MG	1A	3346	1/1	0.96	0.17	46,46,46,46	0
55	MG	2A	3841	1/1	0.96	0.11	59,59,59,59	0
55	MG	1A	3158	1/1	0.96	0.13	57,57,57,57	0
55	MG	1e	201	1/1	0.96	0.05	79,79,79,79	0
55	MG	1e	202	1/1	0.96	0.13	69,69,69,69	0
55	MG	2A	3555	1/1	0.96	0.10	29,29,29,29	0
55	MG	1A	3872	1/1	0.96	0.07	48,48,48,48	0
55	MG	1A	3874	1/1	0.96	0.06	45,45,45,45	0
55	MG	1l	202	1/1	0.96	0.07	50,50,50,50	0
55	MG	1n	101	1/1	0.96	0.09	58,58,58,58	0
55	MG	2A	3568	1/1	0.96	0.13	56,56,56,56	0
55	MG	2a	3163	1/1	0.96	0.05	54,54,54,54	0
55	MG	1A	3103	1/1	0.96	0.08	45,45,45,45	0
55	MG	1A	4043	1/1	0.96	0.06	38,38,38,38	0
55	MG	2a	3167	1/1	0.96	0.05	56,56,56,56	0
55	MG	2a	3169	1/1	0.96	0.10	72,72,72,72	0
55	MG	2A	3169	1/1	0.96	0.10	60,60,60,60	0
55	MG	2a	3172	1/1	0.96	0.12	79,79,79,79	0
55	MG	1A	3607	1/1	0.96	0.19	42,42,42,42	0
55	MG	2A	3575	1/1	0.96	0.12	54,54,54,54	0
55	MG	1O	205	1/1	0.96	0.11	62,62,62,62	0
55	MG	1A	3877	1/1	0.96	0.08	28,28,28,28	0
55	MG	2A	3579	1/1	0.96	0.11	35,35,35,35	0
55	MG	1P	202	1/1	0.96	0.32	47,47,47,47	0
55	MG	2a	3179	1/1	0.96	0.07	49,49,49,49	0
55	MG	2A	3581	1/1	0.96	0.09	42,42,42,42	0
55	MG	1P	203	1/1	0.96	0.22	31,31,31,31	0
55	MG	1A	4046	1/1	0.96	0.09	39,39,39,39	0
55	MG	1A	3878	1/1	0.96	0.20	41,41,41,41	0
55	MG	2A	3592	1/1	0.96	0.06	59,59,59,59	0
55	MG	2A	3593	1/1	0.96	0.05	48,48,48,48	0
55	MG	1A	4051	1/1	0.96	0.06	45,45,45,45	0
55	MG	2A	3358	1/1	0.96	0.18	37,37,37,37	0
55	MG	1a	1654	1/1	0.96	0.14	56,56,56,56	0
55	MG	1A	3011	1/1	0.96	0.08	46,46,46,46	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	4056	1/1	0.96	0.13	85,85,85,85	0
55	MG	1A	4058	1/1	0.96	0.07	52,52,52,52	0
55	MG	1A	3351	1/1	0.96	0.23	53,53,53,53	0
55	MG	2a	3195	1/1	0.96	0.05	61,61,61,61	0
55	MG	2E	301	1/1	0.96	0.12	57,57,57,57	0
55	MG	1Q	203	1/1	0.96	0.10	35,35,35,35	0
55	MG	1A	3242	1/1	0.96	0.37	37,37,37,37	0
55	MG	2A	3008	1/1	0.96	0.06	44,44,44,44	0
55	MG	1A	3612	1/1	0.96	0.06	61,61,61,61	0
55	MG	2A	3010	1/1	0.96	0.12	43,43,43,43	0
55	MG	2E	307	1/1	0.96	0.08	52,52,52,52	0
55	MG	1A	3748	1/1	0.96	0.20	67,67,67,67	0
55	MG	2A	3013	1/1	0.96	0.09	53,53,53,53	0
55	MG	2A	3610	1/1	0.96	0.08	42,42,42,42	0
55	MG	2F	304	1/1	0.96	0.11	65,65,65,65	0
55	MG	2A	3014	1/1	0.96	0.09	46,46,46,46	0
55	MG	2F	306	1/1	0.96	0.15	58,58,58,58	0
55	MG	1A	3121	1/1	0.96	0.10	41,41,41,41	0
55	MG	2A	3613	1/1	0.96	0.12	42,42,42,42	0
55	MG	2A	3615	1/1	0.96	0.10	56,56,56,56	0
55	MG	2A	3016	1/1	0.96	0.15	44,44,44,44	0
55	MG	1A	4072	1/1	0.96	0.06	59,59,59,59	0
55	MG	1A	3751	1/1	0.96	0.14	50,50,50,50	0
55	MG	1A	3615	1/1	0.96	0.05	46,46,46,46	0
55	MG	1A	3889	1/1	0.96	0.34	43,43,43,43	0
55	MG	2A	3198	1/1	0.96	0.09	65,65,65,65	0
55	MG	1A	3003	1/1	0.96	0.05	33,33,33,33	0
55	MG	2A	3625	1/1	0.96	0.10	54,54,54,54	0
55	MG	2A	3024	1/1	0.96	0.10	46,46,46,46	0
55	MG	2A	3629	1/1	0.96	0.08	51,51,51,51	0
55	MG	1A	3032	1/1	0.96	0.26	48,48,48,48	0
55	MG	1A	3619	1/1	0.96	0.08	32,32,32,32	0
55	MG	2a	3225	1/1	0.96	0.05	62,62,62,62	0
55	MG	2A	3636	1/1	0.96	0.06	58,58,58,58	0
55	MG	2A	3385	1/1	0.96	0.16	54,54,54,54	0
55	MG	2A	3638	1/1	0.96	0.08	58,58,58,58	0
55	MG	1U	202	1/1	0.96	0.13	36,36,36,36	0
55	MG	1A	4081	1/1	0.96	0.12	42,42,42,42	0
55	MG	1A	3398	1/1	0.96	0.39	45,45,45,45	0
55	MG	1A	4083	1/1	0.96	0.15	50,50,50,50	0
55	MG	1A	3898	1/1	0.96	0.07	23,23,23,23	0
55	MG	2A	3646	1/1	0.96	0.27	62,62,62,62	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3621	1/1	0.96	0.06	29,29,29,29	0
55	MG	1A	3764	1/1	0.96	0.10	44,44,44,44	0
55	MG	2A	3034	1/1	0.96	0.11	56,56,56,56	0
55	MG	1A	3622	1/1	0.96	0.11	45,45,45,45	0
55	MG	1A	3630	1/1	0.96	0.08	46,46,46,46	0
55	MG	25	102	1/1	0.96	0.32	53,53,53,53	0
55	MG	1A	3399	1/1	0.96	0.13	47,47,47,47	0
55	MG	1A	3246	1/1	0.96	0.22	48,48,48,48	0
55	MG	2A	3040	1/1	0.96	0.08	48,48,48,48	0
55	MG	1A	3401	1/1	0.96	0.07	47,47,47,47	0
55	MG	2A	3222	1/1	0.96	0.07	50,50,50,50	0
55	MG	1W	202	1/1	0.96	0.09	54,54,54,54	0
55	MG	1A	3774	1/1	0.96	0.06	44,44,44,44	0
55	MG	1A	4093	1/1	0.96	0.13	41,41,41,41	0
55	MG	2A	3405	1/1	0.96	0.19	48,48,48,48	0
55	MG	2x	105	1/1	0.96	0.20	49,49,49,49	0
55	MG	1W	206	1/1	0.96	0.16	40,40,40,40	0
55	MG	1A	3779	1/1	0.96	0.07	39,39,39,39	0
55	MG	1A	3402	1/1	0.96	0.18	58,58,58,58	0
57	SPS	2A	3851	23/23	0.96	0.10	51,56,58,60	0
58	ZN	14	102	1/1	0.96	0.10	111,111,111,111	0
55	MG	1A	3186	1/1	0.96	0.09	51,51,51,51	0
55	MG	1E	309	1/1	0.97	0.09	25,25,25,25	0
55	MG	1a	1615	1/1	0.97	0.07	68,68,68,68	0
55	MG	1A	3543	1/1	0.97	0.36	57,57,57,57	0
55	MG	2A	3725	1/1	0.97	0.05	69,69,69,69	0
55	MG	1A	3852	1/1	0.97	0.08	36,36,36,36	0
55	MG	2A	3129	1/1	0.97	0.14	40,40,40,40	0
55	MG	1A	3307	1/1	0.97	0.14	40,40,40,40	0
55	MG	1A	3041	1/1	0.97	0.07	35,35,35,35	0
55	MG	1A	3031	1/1	0.97	0.23	30,30,30,30	0
55	MG	1a	1621	1/1	0.97	0.05	57,57,57,57	0
55	MG	1A	3050	1/1	0.97	0.18	36,36,36,36	0
55	MG	1A	3235	1/1	0.97	0.07	51,51,51,51	0
55	MG	1A	3116	1/1	0.97	0.10	47,47,47,47	0
55	MG	2A	3137	1/1	0.97	0.11	45,45,45,45	0
55	MG	1A	3152	1/1	0.97	0.14	51,51,51,51	0
55	MG	1A	4017	1/1	0.97	0.07	47,47,47,47	0
55	MG	1A	3731	1/1	0.97	0.09	34,34,34,34	0
55	MG	1A	3133	1/1	0.97	0.20	47,47,47,47	0
55	MG	1A	3733	1/1	0.97	0.08	48,48,48,48	0
55	MG	1A	4025	1/1	0.97	0.10	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
55	MG	1A	3735	1/1	0.97	0.07	46,46,46,46	0
55	MG	1A	3611	1/1	0.97	0.34	48,48,48,48	0
55	MG	1A	3204	1/1	0.97	0.17	30,30,30,30	0
55	MG	1a	1634	1/1	0.97	0.17	55,55,55,55	0
55	MG	2A	3747	1/1	0.97	0.06	54,54,54,54	0
55	MG	1A	3868	1/1	0.97	0.07	45,45,45,45	0
55	MG	1A	4032	1/1	0.97	0.07	55,55,55,55	0
55	MG	1A	3869	1/1	0.97	0.06	55,55,55,55	0
55	MG	2a	3059	1/1	0.97	0.05	86,86,86,86	0
55	MG	1A	3175	1/1	0.97	0.28	36,36,36,36	0
55	MG	1A	3614	1/1	0.97	0.06	32,32,32,32	0
55	MG	2A	3512	1/1	0.97	0.14	46,46,46,46	0
55	MG	1A	3176	1/1	0.97	0.05	39,39,39,39	0
55	MG	1A	3207	1/1	0.97	0.16	35,35,35,35	0
55	MG	2A	3517	1/1	0.97	0.11	62,62,62,62	0
55	MG	1A	3028	1/1	0.97	0.29	33,33,33,33	0
55	MG	1A	3279	1/1	0.97	0.23	31,31,31,31	0
55	MG	1A	3179	1/1	0.97	0.14	33,33,33,33	0
55	MG	2A	3763	1/1	0.97	0.04	53,53,53,53	0
55	MG	1A	3210	1/1	0.97	0.06	50,50,50,50	0
55	MG	1A	3879	1/1	0.97	0.07	53,53,53,53	0
55	MG	1A	3749	1/1	0.97	0.06	70,70,70,70	0
55	MG	1a	1648	1/1	0.97	0.07	73,73,73,73	0
55	MG	1A	3156	1/1	0.97	0.06	54,54,54,54	0
55	MG	1x	103	1/1	0.97	0.09	56,56,56,56	0
55	MG	1A	4048	1/1	0.97	0.10	32,32,32,32	0
55	MG	1A	4050	1/1	0.97	0.06	41,41,41,41	0
55	MG	1A	3623	1/1	0.97	0.05	39,39,39,39	0
55	MG	2A	3534	1/1	0.97	0.12	48,48,48,48	0
55	MG	2A	3776	1/1	0.97	0.09	55,55,55,55	0
55	MG	2A	3536	1/1	0.97	0.11	48,48,48,48	0
55	MG	1A	4052	1/1	0.97	0.05	43,43,43,43	0
55	MG	1A	3624	1/1	0.97	0.12	46,46,46,46	0
55	MG	2A	3539	1/1	0.97	0.09	51,51,51,51	0
55	MG	2A	3540	1/1	0.97	0.05	43,43,43,43	0
55	MG	1A	3755	1/1	0.97	0.09	54,54,54,54	0
55	MG	2A	3001	1/1	0.97	0.12	56,56,56,56	0
55	MG	1A	3033	1/1	0.97	0.45	36,36,36,36	0
55	MG	1A	4059	1/1	0.97	0.11	37,37,37,37	0
55	MG	1A	3461	1/1	0.97	0.25	61,61,61,61	0
55	MG	2A	3788	1/1	0.97	0.06	63,63,63,63	0
55	MG	1A	3045	1/1	0.97	0.06	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	2A	3791	1/1	0.97	0.09	65,65,65,65	0
55	MG	2A	3350	1/1	0.97	0.17	46,46,46,46	0
55	MG	2a	3095	1/1	0.97	0.23	50,50,50,50	0
55	MG	2A	3554	1/1	0.97	0.07	48,48,48,48	0
55	MG	1A	3250	1/1	0.97	0.10	46,46,46,46	0
55	MG	1A	4068	1/1	0.97	0.09	23,23,23,23	0
55	MG	2A	3559	1/1	0.97	0.14	46,46,46,46	0
55	MG	2A	3800	1/1	0.97	0.09	49,49,49,49	0
55	MG	1A	3761	1/1	0.97	0.12	44,44,44,44	0
55	MG	1R	203	1/1	0.97	0.12	54,54,54,54	0
55	MG	1A	3567	1/1	0.97	0.08	35,35,35,35	0
55	MG	2a	3104	1/1	0.97	0.06	75,75,75,75	0
55	MG	2A	3804	1/1	0.97	0.05	48,48,48,48	0
55	MG	2A	3567	1/1	0.97	0.09	41,41,41,41	0
55	MG	2A	3809	1/1	0.97	0.06	57,57,57,57	0
55	MG	1A	3892	1/1	0.97	0.12	43,43,43,43	0
55	MG	2A	3357	1/1	0.97	0.12	54,54,54,54	0
55	MG	2A	3012	1/1	0.97	0.06	53,53,53,53	0
55	MG	1A	3464	1/1	0.97	0.13	36,36,36,36	0
55	MG	1A	3414	1/1	0.97	0.34	39,39,39,39	0
55	MG	1A	3896	1/1	0.97	0.08	41,41,41,41	0
55	MG	1T	202	1/1	0.97	0.05	40,40,40,40	0
55	MG	1A	3640	1/1	0.97	0.06	50,50,50,50	0
55	MG	1A	3159	1/1	0.97	0.13	36,36,36,36	0
55	MG	1A	3902	1/1	0.97	0.09	25,25,25,25	0
55	MG	1A	3903	1/1	0.97	0.06	34,34,34,34	0
55	MG	1A	3905	1/1	0.97	0.07	32,32,32,32	0
55	MG	1a	1675	1/1	0.97	0.08	46,46,46,46	0
55	MG	2A	3588	1/1	0.97	0.05	67,67,67,67	0
55	MG	1a	1676	1/1	0.97	0.07	58,58,58,58	0
55	MG	1A	3906	1/1	0.97	0.06	35,35,35,35	0
55	MG	1A	3571	1/1	0.97	0.06	45,45,45,45	0
55	MG	1A	3647	1/1	0.97	0.05	35,35,35,35	0
55	MG	2a	3126	1/1	0.97	0.24	52,52,52,52	0
55	MG	2A	3834	1/1	0.97	0.05	60,60,60,60	0
55	MG	1A	3773	1/1	0.97	0.06	31,31,31,31	0
55	MG	2A	3200	1/1	0.97	0.11	45,45,45,45	0
55	MG	1U	209	1/1	0.97	0.07	41,41,41,41	0
55	MG	2A	3839	1/1	0.97	0.07	53,53,53,53	0
55	MG	1A	3215	1/1	0.97	0.17	47,47,47,47	0
55	MG	1V	203	1/1	0.97	0.33	46,46,46,46	0
55	MG	1A	3776	1/1	0.97	0.08	44,44,44,44	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3573	1/1	0.97	0.07	43,43,43,43	0
55	MG	1V	207	1/1	0.97	0.06	53,53,53,53	0
55	MG	1A	3915	1/1	0.97	0.07	42,42,42,42	0
55	MG	1A	3517	1/1	0.97	0.07	40,40,40,40	0
55	MG	2A	3605	1/1	0.97	0.05	60,60,60,60	0
55	MG	1a	1690	1/1	0.97	0.17	47,47,47,47	0
55	MG	2B	201	1/1	0.97	0.32	73,73,73,73	0
55	MG	1A	3786	1/1	0.97	0.05	38,38,38,38	0
55	MG	2A	3211	1/1	0.97	0.09	56,56,56,56	0
55	MG	2A	3609	1/1	0.97	0.07	25,25,25,25	0
55	MG	2A	3212	1/1	0.97	0.11	62,62,62,62	0
55	MG	1a	1692	1/1	0.97	0.28	48,48,48,48	0
55	MG	1A	3089	1/1	0.97	0.17	35,35,35,35	0
55	MG	1W	204	1/1	0.97	0.22	42,42,42,42	0
55	MG	2a	3149	1/1	0.97	0.07	72,72,72,72	0
55	MG	2A	3614	1/1	0.97	0.05	45,45,45,45	0
55	MG	2A	3216	1/1	0.97	0.28	47,47,47,47	0
55	MG	1A	3077	1/1	0.97	0.07	49,49,49,49	0
55	MG	2A	3617	1/1	0.97	0.11	47,47,47,47	0
55	MG	1A	3291	1/1	0.97	0.06	54,54,54,54	0
55	MG	1A	3065	1/1	0.97	0.07	37,37,37,37	0
55	MG	1A	3657	1/1	0.97	0.08	38,38,38,38	0
55	MG	1A	3522	1/1	0.97	0.07	63,63,63,63	0
55	MG	1A	3802	1/1	0.97	0.16	70,70,70,70	0
55	MG	1A	4101	1/1	0.97	0.11	63,63,63,63	0
55	MG	1A	3092	1/1	0.97	0.06	42,42,42,42	0
55	MG	1A	3142	1/1	0.97	0.15	32,32,32,32	0
55	MG	2a	3162	1/1	0.97	0.16	69,69,69,69	0
55	MG	1A	3189	1/1	0.97	0.10	43,43,43,43	0
55	MG	2D	302	1/1	0.97	0.08	58,58,58,58	0
55	MG	1A	3808	1/1	0.97	0.10	27,27,27,27	0
55	MG	1a	1708	1/1	0.97	0.31	53,53,53,53	0
55	MG	2A	3634	1/1	0.97	0.05	39,39,39,39	0
55	MG	1Z	303	1/1	0.97	0.11	47,47,47,47	0
55	MG	2a	3171	1/1	0.97	0.05	84,84,84,84	0
55	MG	2A	3057	1/1	0.97	0.07	50,50,50,50	0
55	MG	1A	3663	1/1	0.97	0.05	49,49,49,49	0
55	MG	1a	1711	1/1	0.97	0.20	39,39,39,39	0
55	MG	1a	1712	1/1	0.97	0.24	45,45,45,45	0
55	MG	1A	3811	1/1	0.97	0.06	42,42,42,42	0
55	MG	1A	3191	1/1	0.97	0.42	57,57,57,57	0
55	MG	1A	3665	1/1	0.97	0.06	31,31,31,31	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3950	1/1	0.97	0.07	53,53,53,53	0
55	MG	1A	3815	1/1	0.97	0.06	37,37,37,37	0
55	MG	1A	3425	1/1	0.97	0.09	40,40,40,40	0
55	MG	10	108	1/1	0.97	0.08	53,53,53,53	0
55	MG	1A	3953	1/1	0.97	0.09	68,68,68,68	0
55	MG	1A	3426	1/1	0.97	0.09	54,54,54,54	0
55	MG	11	103	1/1	0.97	0.06	51,51,51,51	0
55	MG	2A	3071	1/1	0.97	0.07	53,53,53,53	0
55	MG	1A	3669	1/1	0.97	0.14	62,62,62,62	0
55	MG	1A	3822	1/1	0.97	0.04	48,48,48,48	0
55	MG	2A	3074	1/1	0.97	0.10	40,40,40,40	0
55	MG	2A	3426	1/1	0.97	0.25	48,48,48,48	0
55	MG	2A	3658	1/1	0.97	0.07	58,58,58,58	0
55	MG	1A	3261	1/1	0.97	0.08	38,38,38,38	0
55	MG	12	102	1/1	0.97	0.08	49,49,49,49	0
55	MG	1A	3587	1/1	0.97	0.04	42,42,42,42	0
55	MG	1A	3479	1/1	0.97	0.34	44,44,44,44	0
55	MG	1A	3962	1/1	0.97	0.05	62,62,62,62	0
55	MG	1A	3299	1/1	0.97	0.12	41,41,41,41	0
55	MG	2A	3665	1/1	0.97	0.11	51,51,51,51	0
55	MG	1A	3682	1/1	0.97	0.07	43,43,43,43	0
55	MG	2U	202	1/1	0.97	0.04	62,62,62,62	0
55	MG	2A	3082	1/1	0.97	0.06	41,41,41,41	0
55	MG	1a	1734	1/1	0.97	0.09	48,48,48,48	0
55	MG	1A	3687	1/1	0.97	0.11	26,26,26,26	0
55	MG	1A	3967	1/1	0.97	0.07	53,53,53,53	0
55	MG	1A	3830	1/1	0.97	0.05	54,54,54,54	0
55	MG	1A	3969	1/1	0.97	0.04	63,63,63,63	0
55	MG	1A	3590	1/1	0.97	0.26	43,43,43,43	0
55	MG	1A	3832	1/1	0.97	0.09	32,32,32,32	0
55	MG	2A	3445	1/1	0.97	0.09	44,44,44,44	0
55	MG	1A	3227	1/1	0.97	0.21	54,54,54,54	0
55	MG	1A	3533	1/1	0.97	0.19	47,47,47,47	0
55	MG	1A	3013	1/1	0.97	0.08	38,38,38,38	0
55	MG	1A	3701	1/1	0.97	0.07	36,36,36,36	0
55	MG	23	102	1/1	0.97	0.06	58,58,58,58	0
55	MG	2A	3267	1/1	0.97	0.09	75,75,75,75	0
55	MG	2a	3218	1/1	0.97	0.16	63,63,63,63	0
55	MG	1a	1748	1/1	0.97	0.06	63,63,63,63	0
55	MG	25	103	1/1	0.97	0.07	57,57,57,57	0
55	MG	1A	3302	1/1	0.97	0.10	36,36,36,36	0
55	MG	1A	3978	1/1	0.97	0.08	69,69,69,69	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3838	1/1	0.97	0.04	34,34,34,34	0
55	MG	1a	1752	1/1	0.97	0.05	63,63,63,63	0
55	MG	28	102	1/1	0.97	0.17	62,62,62,62	0
55	MG	1a	1753	1/1	0.97	0.07	47,47,47,47	0
55	MG	1A	3704	1/1	0.97	0.06	35,35,35,35	0
55	MG	1A	3840	1/1	0.97	0.15	42,42,42,42	0
55	MG	2A	3276	1/1	0.97	0.05	56,56,56,56	0
55	MG	2A	3102	1/1	0.97	0.17	49,49,49,49	0
55	MG	1D	303	1/1	0.97	0.15	34,34,34,34	0
55	MG	1a	1759	1/1	0.97	0.05	60,60,60,60	0
55	MG	2A	3695	1/1	0.97	0.09	34,34,34,34	0
55	MG	1D	304	1/1	0.97	0.06	30,30,30,30	0
55	MG	1A	3303	1/1	0.97	0.10	45,45,45,45	0
55	MG	1A	3344	1/1	0.97	0.13	44,44,44,44	0
55	MG	1D	307	1/1	0.97	0.36	42,42,42,42	0
55	MG	2A	3700	1/1	0.97	0.05	52,52,52,52	0
55	MG	1A	3014	1/1	0.97	0.11	50,50,50,50	0
55	MG	1A	3068	1/1	0.97	0.08	34,34,34,34	0
55	MG	1D	310	1/1	0.97	0.27	30,30,30,30	0
55	MG	1A	3712	1/1	0.97	0.07	64,64,64,64	0
55	MG	1E	301	1/1	0.97	0.04	33,33,33,33	0
55	MG	1A	3715	1/1	0.97	0.06	33,33,33,33	0
55	MG	1A	3847	1/1	0.97	0.07	36,36,36,36	0
55	MG	1A	3992	1/1	0.97	0.05	35,35,35,35	0
55	MG	2A	3712	1/1	0.97	0.07	44,44,44,44	0
55	MG	1a	1775	1/1	0.97	0.07	59,59,59,59	0
55	MG	2a	3023	1/1	0.97	0.07	59,59,59,59	0
55	MG	1A	3347	1/1	0.97	0.22	45,45,45,45	0
55	MG	1A	3996	1/1	0.97	0.07	39,39,39,39	0
55	MG	1a	1609	1/1	0.97	0.05	56,56,56,56	0
55	MG	1A	3718	1/1	0.97	0.08	31,31,31,31	0
55	MG	1A	3057	1/1	0.97	0.22	46,46,46,46	0
55	MG	1a	1613	1/1	0.97	0.04	66,66,66,66	0
58	ZN	24	501	1/1	0.97	0.08	132,132,132,132	0
55	MG	2a	3030	1/1	0.97	0.04	90,90,90,90	0
60	FME	2x	107	10/11	0.97	0.12	46,53,62,66	0
55	MG	1a	1794	1/1	0.98	0.04	69,69,69,69	0
55	MG	1a	1795	1/1	0.98	0.04	62,62,62,62	0
55	MG	1A	3219	1/1	0.98	0.14	26,26,26,26	0
55	MG	1A	3625	1/1	0.98	0.06	45,45,45,45	0
55	MG	2A	3789	1/1	0.98	0.05	45,45,45,45	0
55	MG	1A	3856	1/1	0.98	0.07	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
55	MG	1A	3965	1/1	0.98	0.06	49,49,49,49	0
55	MG	2A	3792	1/1	0.98	0.05	54,54,54,54	0
55	MG	1A	4097	1/1	0.98	0.10	52,52,52,52	0
55	MG	1A	3628	1/1	0.98	0.10	21,21,21,21	0
55	MG	2A	3415	1/1	0.98	0.09	33,33,33,33	0
55	MG	1A	3699	1/1	0.98	0.07	31,31,31,31	0
55	MG	1A	3700	1/1	0.98	0.06	28,28,28,28	0
55	MG	1A	3220	1/1	0.98	0.15	53,53,53,53	0
55	MG	1A	4102	1/1	0.98	0.07	40,40,40,40	0
55	MG	1a	1808	1/1	0.98	0.07	60,60,60,60	0
55	MG	1A	3397	1/1	0.98	0.04	24,24,24,24	0
55	MG	1V	201	1/1	0.98	0.30	45,45,45,45	0
55	MG	1A	3775	1/1	0.98	0.06	29,29,29,29	0
55	MG	2A	3807	1/1	0.98	0.04	50,50,50,50	0
55	MG	1B	201	1/1	0.98	0.14	38,38,38,38	0
55	MG	1A	3281	1/1	0.98	0.15	52,52,52,52	0
55	MG	1V	205	1/1	0.98	0.17	44,44,44,44	0
55	MG	1A	3777	1/1	0.98	0.07	23,23,23,23	0
55	MG	1A	3778	1/1	0.98	0.07	30,30,30,30	0
55	MG	2A	3814	1/1	0.98	0.04	40,40,40,40	0
55	MG	1A	3975	1/1	0.98	0.04	32,32,32,32	0
55	MG	1A	3056	1/1	0.98	0.16	39,39,39,39	0
55	MG	1A	3780	1/1	0.98	0.14	31,31,31,31	0
55	MG	2A	3432	1/1	0.98	0.07	39,39,39,39	0
55	MG	1A	3707	1/1	0.98	0.06	49,49,49,49	0
55	MG	1m	3001	1/1	0.98	0.06	58,58,58,58	0
55	MG	2A	3822	1/1	0.98	0.06	31,31,31,31	0
55	MG	1A	3783	1/1	0.98	0.05	52,52,52,52	0
55	MG	1A	3784	1/1	0.98	0.07	27,27,27,27	0
55	MG	1A	3592	1/1	0.98	0.28	34,34,34,34	0
55	MG	1A	3873	1/1	0.98	0.04	31,31,31,31	0
55	MG	2A	3827	1/1	0.98	0.04	40,40,40,40	0
55	MG	1A	3709	1/1	0.98	0.08	28,28,28,28	0
55	MG	2A	3626	1/1	0.98	0.07	36,36,36,36	0
55	MG	1A	3223	1/1	0.98	0.18	44,44,44,44	0
55	MG	2A	3831	1/1	0.98	0.17	56,56,56,56	0
55	MG	2A	3442	1/1	0.98	0.15	32,32,32,32	0
55	MG	2A	3833	1/1	0.98	0.08	65,65,65,65	0
55	MG	1X	103	1/1	0.98	0.05	52,52,52,52	0
55	MG	1A	3557	1/1	0.98	0.07	38,38,38,38	0
55	MG	2A	3836	1/1	0.98	0.09	40,40,40,40	0
55	MG	2A	3632	1/1	0.98	0.05	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
55	MG	2A	3633	1/1	0.98	0.04	53,53,53,53	0
55	MG	1B	216	1/1	0.98	0.07	40,40,40,40	0
55	MG	2A	3635	1/1	0.98	0.13	51,51,51,51	0
55	MG	1x	106	1/1	0.98	0.12	53,53,53,53	0
55	MG	2A	3842	1/1	0.98	0.09	41,41,41,41	0
55	MG	1x	107	1/1	0.98	0.12	25,25,25,25	0
55	MG	1A	3459	1/1	0.98	0.08	49,49,49,49	0
55	MG	1A	3794	1/1	0.98	0.06	21,21,21,21	0
55	MG	2A	3640	1/1	0.98	0.03	40,40,40,40	0
55	MG	2A	3847	1/1	0.98	0.15	44,44,44,44	0
55	MG	1A	3795	1/1	0.98	0.09	76,76,76,76	0
55	MG	2A	3642	1/1	0.98	0.07	53,53,53,53	0
55	MG	1A	3796	1/1	0.98	0.06	46,46,46,46	0
55	MG	1A	3993	1/1	0.98	0.04	32,32,32,32	0
55	MG	1a	1685	1/1	0.98	0.07	58,58,58,58	0
55	MG	1A	3713	1/1	0.98	0.07	31,31,31,31	0
55	MG	1A	3012	1/1	0.98	0.04	32,32,32,32	0
55	MG	1A	3883	1/1	0.98	0.05	43,43,43,43	0
55	MG	1A	3799	1/1	0.98	0.05	41,41,41,41	0
55	MG	1A	3800	1/1	0.98	0.05	37,37,37,37	0
55	MG	1B	227	1/1	0.98	0.06	49,49,49,49	0
55	MG	10	106	1/1	0.98	0.04	52,52,52,52	0
55	MG	1A	3643	1/1	0.98	0.05	32,32,32,32	0
55	MG	1A	4002	1/1	0.98	0.06	29,29,29,29	0
55	MG	1A	3717	1/1	0.98	0.06	28,28,28,28	0
55	MG	1A	3644	1/1	0.98	0.05	35,35,35,35	0
55	MG	1A	3492	1/1	0.98	0.11	54,54,54,54	0
55	MG	1A	3806	1/1	0.98	0.05	26,26,26,26	0
55	MG	1A	3190	1/1	0.98	0.12	33,33,33,33	0
55	MG	2A	3468	1/1	0.98	0.09	53,53,53,53	0
55	MG	1A	3809	1/1	0.98	0.09	21,21,21,21	0
55	MG	1a	1701	1/1	0.98	0.07	60,60,60,60	0
55	MG	1B	236	1/1	0.98	0.07	38,38,38,38	0
55	MG	2A	3167	1/1	0.98	0.09	54,54,54,54	0
55	MG	1a	1703	1/1	0.98	0.17	38,38,38,38	0
55	MG	2A	3022	1/1	0.98	0.09	60,60,60,60	0
55	MG	2A	3170	1/1	0.98	0.09	44,44,44,44	0
55	MG	2A	3668	1/1	0.98	0.07	56,56,56,56	0
55	MG	1A	4012	1/1	0.98	0.09	33,33,33,33	0
55	MG	1A	3893	1/1	0.98	0.06	63,63,63,63	0
55	MG	13	103	1/1	0.98	0.09	40,40,40,40	0
55	MG	1A	4014	1/1	0.98	0.07	29,29,29,29	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	4015	1/1	0.98	0.05	29,29,29,29	0
55	MG	1A	4016	1/1	0.98	0.04	44,44,44,44	0
55	MG	1A	3115	1/1	0.98	0.05	30,30,30,30	0
55	MG	1A	4018	1/1	0.98	0.04	32,32,32,32	0
55	MG	1A	3178	1/1	0.98	0.14	35,35,35,35	0
55	MG	2F	301	1/1	0.98	0.13	54,54,54,54	0
55	MG	1A	3405	1/1	0.98	0.09	44,44,44,44	0
55	MG	1A	4023	1/1	0.98	0.04	71,71,71,71	0
55	MG	1A	3813	1/1	0.98	0.11	60,60,60,60	0
55	MG	1A	3724	1/1	0.98	0.06	52,52,52,52	0
55	MG	1A	3900	1/1	0.98	0.14	42,42,42,42	0
55	MG	1A	4027	1/1	0.98	0.07	55,55,55,55	0
55	MG	1A	4028	1/1	0.98	0.06	64,64,64,64	0
55	MG	2O	201	1/1	0.98	0.07	58,58,58,58	0
55	MG	2A	3039	1/1	0.98	0.09	57,57,57,57	0
55	MG	1A	3901	1/1	0.98	0.09	48,48,48,48	0
55	MG	1A	3725	1/1	0.98	0.05	48,48,48,48	0
55	MG	1A	3816	1/1	0.98	0.10	29,29,29,29	0
55	MG	2a	3165	1/1	0.98	0.08	65,65,65,65	0
55	MG	2Q	202	1/1	0.98	0.16	32,32,32,32	0
55	MG	1A	3817	1/1	0.98	0.06	50,50,50,50	0
55	MG	2a	3168	1/1	0.98	0.04	79,79,79,79	0
55	MG	1A	3651	1/1	0.98	0.06	43,43,43,43	0
55	MG	1A	3727	1/1	0.98	0.05	26,26,26,26	0
55	MG	1A	3124	1/1	0.98	0.15	45,45,45,45	0
55	MG	1A	3434	1/1	0.98	0.16	53,53,53,53	0
55	MG	2A	3694	1/1	0.98	0.12	56,56,56,56	0
55	MG	1A	3910	1/1	0.98	0.06	47,47,47,47	0
55	MG	1A	3357	1/1	0.98	0.09	60,60,60,60	0
55	MG	1A	3824	1/1	0.98	0.06	43,43,43,43	0
55	MG	2A	3199	1/1	0.98	0.07	63,63,63,63	0
55	MG	1F	304	1/1	0.98	0.06	48,48,48,48	0
55	MG	1A	3913	1/1	0.98	0.10	46,46,46,46	0
55	MG	2a	3180	1/1	0.98	0.10	50,50,50,50	0
55	MG	1A	3408	1/1	0.98	0.05	43,43,43,43	0
55	MG	1A	3155	1/1	0.98	0.08	45,45,45,45	0
55	MG	1A	3144	1/1	0.98	0.15	45,45,45,45	0
55	MG	1A	3659	1/1	0.98	0.09	38,38,38,38	0
55	MG	1A	3108	1/1	0.98	0.07	46,46,46,46	0
55	MG	2A	3513	1/1	0.98	0.09	34,34,34,34	0
55	MG	1A	4049	1/1	0.98	0.07	28,28,28,28	0
55	MG	1A	3920	1/1	0.98	0.03	46,46,46,46	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3440	1/1	0.98	0.06	61,61,61,61	0
55	MG	1a	1610	1/1	0.98	0.17	38,38,38,38	0
55	MG	1A	3197	1/1	0.98	0.05	36,36,36,36	0
55	MG	2A	3520	1/1	0.98	0.08	45,45,45,45	0
55	MG	2a	3193	1/1	0.98	0.07	66,66,66,66	0
55	MG	1A	4053	1/1	0.98	0.15	42,42,42,42	0
55	MG	2A	3718	1/1	0.98	0.06	53,53,53,53	0
55	MG	2A	3362	1/1	0.98	0.08	53,53,53,53	0
55	MG	1A	3539	1/1	0.98	0.25	35,35,35,35	0
55	MG	1A	3926	1/1	0.98	0.07	26,26,26,26	0
55	MG	1A	4057	1/1	0.98	0.04	25,25,25,25	0
55	MG	2A	3366	1/1	0.98	0.10	63,63,63,63	0
55	MG	1A	3293	1/1	0.98	0.17	29,29,29,29	0
55	MG	1A	3741	1/1	0.98	0.06	39,39,39,39	0
55	MG	2A	3726	1/1	0.98	0.04	49,49,49,49	0
55	MG	1A	3135	1/1	0.98	0.04	51,51,51,51	0
55	MG	1A	3666	1/1	0.98	0.06	37,37,37,37	0
55	MG	2A	3533	1/1	0.98	0.06	37,37,37,37	0
55	MG	1N	206	1/1	0.98	0.04	34,34,34,34	0
55	MG	2A	3535	1/1	0.98	0.15	65,65,65,65	0
55	MG	1A	4062	1/1	0.98	0.07	42,42,42,42	0
55	MG	1a	1760	1/1	0.98	0.10	61,61,61,61	0
55	MG	1A	4063	1/1	0.98	0.05	35,35,35,35	0
55	MG	1A	4064	1/1	0.98	0.06	48,48,48,48	0
55	MG	1A	3931	1/1	0.98	0.04	66,66,66,66	0
55	MG	2A	3541	1/1	0.98	0.05	63,63,63,63	0
55	MG	2A	3542	1/1	0.98	0.06	42,42,42,42	0
55	MG	1A	3932	1/1	0.98	0.09	47,47,47,47	0
55	MG	1A	3022	1/1	0.98	0.10	32,32,32,32	0
55	MG	1a	1766	1/1	0.98	0.03	68,68,68,68	0
55	MG	2A	3546	1/1	0.98	0.06	57,57,57,57	0
55	MG	2A	3547	1/1	0.98	0.05	34,34,34,34	0
55	MG	1A	3023	1/1	0.98	0.11	42,42,42,42	0
55	MG	1A	3936	1/1	0.98	0.08	42,42,42,42	0
55	MG	1A	3006	1/1	0.98	0.08	48,48,48,48	0
55	MG	1A	3617	1/1	0.98	0.08	32,32,32,32	0
55	MG	1A	3939	1/1	0.98	0.04	53,53,53,53	0
55	MG	1A	3940	1/1	0.98	0.04	44,44,44,44	0
55	MG	1a	1773	1/1	0.98	0.05	65,65,65,65	0
55	MG	1A	3671	1/1	0.98	0.05	34,34,34,34	0
55	MG	1A	3672	1/1	0.98	0.09	22,22,22,22	0
55	MG	2A	3561	1/1	0.98	0.09	36,36,36,36	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3948	1/1	0.98	0.03	60,60,60,60	0
55	MG	1a	1777	1/1	0.98	0.07	62,62,62,62	0
55	MG	2A	3566	1/1	0.98	0.04	42,42,42,42	0
55	MG	1A	3753	1/1	0.98	0.05	24,24,24,24	0
55	MG	1A	3673	1/1	0.98	0.04	29,29,29,29	0
55	MG	1Q	205	1/1	0.98	0.08	48,48,48,48	0
55	MG	2A	3570	1/1	0.98	0.05	43,43,43,43	0
55	MG	1a	1781	1/1	0.98	0.04	68,68,68,68	0
55	MG	1A	3320	1/1	0.98	0.07	40,40,40,40	0
55	MG	2A	3766	1/1	0.98	0.07	42,42,42,42	0
55	MG	1A	3256	1/1	0.98	0.06	48,48,48,48	0
55	MG	2A	3574	1/1	0.98	0.04	37,37,37,37	0
55	MG	1A	3020	1/1	0.98	0.04	26,26,26,26	0
55	MG	2A	3576	1/1	0.98	0.07	48,48,48,48	0
55	MG	2A	3771	1/1	0.98	0.07	56,56,56,56	0
55	MG	2A	3398	1/1	0.98	0.12	33,33,33,33	0
55	MG	1R	202	1/1	0.98	0.10	36,36,36,36	0
55	MG	1A	3681	1/1	0.98	0.06	25,25,25,25	0
55	MG	1A	3514	1/1	0.98	0.19	45,45,45,45	0
55	MG	1A	3238	1/1	0.98	0.21	33,33,33,33	0
55	MG	1A	3452	1/1	0.98	0.15	52,52,52,52	0
55	MG	2A	3778	1/1	0.98	0.07	41,41,41,41	0
55	MG	2A	3583	1/1	0.98	0.04	44,44,44,44	0
57	SPS	1A	4105	23/23	0.98	0.07	34,40,44,45	0
55	MG	2A	3584	1/1	0.98	0.04	53,53,53,53	0
55	MG	1A	3692	1/1	0.98	0.06	51,51,51,51	0
55	MG	2A	3587	1/1	0.98	0.05	55,55,55,55	0
58	ZN	2n	501	1/1	0.98	0.04	103,103,103,103	0
59	SF4	2d	304	8/8	0.98	0.04	75,84,90,106	0
55	MG	1A	3766	1/1	0.98	0.12	43,43,43,43	0
55	MG	1a	1792	1/1	0.98	0.04	71,71,71,71	0
55	MG	1A	3863	1/1	0.99	0.06	27,27,27,27	0
55	MG	1A	3947	1/1	0.99	0.04	40,40,40,40	0
55	MG	1A	3679	1/1	0.99	0.06	29,29,29,29	0
55	MG	1A	3758	1/1	0.99	0.04	52,52,52,52	0
55	MG	1a	1757	1/1	0.99	0.03	63,63,63,63	0
55	MG	2A	3717	1/1	0.99	0.05	31,31,31,31	0
55	MG	1a	1758	1/1	0.99	0.04	47,47,47,47	0
55	MG	2A	3627	1/1	0.99	0.03	47,47,47,47	0
55	MG	2A	3817	1/1	0.99	0.03	38,38,38,38	0
55	MG	1A	4001	1/1	0.99	0.03	46,46,46,46	0
55	MG	2A	3302	1/1	0.99	0.03	50,50,50,50	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3793	1/1	0.99	0.06	56,56,56,56	0
55	MG	1A	3904	1/1	0.99	0.06	40,40,40,40	0
55	MG	1A	3706	1/1	0.99	0.05	25,25,25,25	0
55	MG	1A	4066	1/1	0.99	0.05	52,52,52,52	0
55	MG	1A	4067	1/1	0.99	0.04	41,41,41,41	0
55	MG	1A	3680	1/1	0.99	0.03	28,28,28,28	0
55	MG	1A	4007	1/1	0.99	0.03	53,53,53,53	0
55	MG	1A	3074	1/1	0.99	0.04	19,19,19,19	0
55	MG	1A	3955	1/1	0.99	0.07	49,49,49,49	0
55	MG	1A	3956	1/1	0.99	0.05	48,48,48,48	0
55	MG	2A	3549	1/1	0.99	0.09	39,39,39,39	0
55	MG	1A	4074	1/1	0.99	0.04	33,33,33,33	0
55	MG	1A	4011	1/1	0.99	0.05	41,41,41,41	0
55	MG	1A	3201	1/1	0.99	0.04	39,39,39,39	0
55	MG	1A	3763	1/1	0.99	0.03	49,49,49,49	0
55	MG	1A	3734	1/1	0.99	0.02	33,33,33,33	0
55	MG	2A	3556	1/1	0.99	0.08	48,48,48,48	0
55	MG	2A	3557	1/1	0.99	0.04	30,30,30,30	0
55	MG	1A	3684	1/1	0.99	0.05	30,30,30,30	0
55	MG	1A	4080	1/1	0.99	0.10	45,45,45,45	0
55	MG	1A	3801	1/1	0.99	0.08	25,25,25,25	0
55	MG	1A	3686	1/1	0.99	0.04	20,20,20,20	0
55	MG	2A	3018	1/1	0.99	0.02	46,46,46,46	0
55	MG	2A	3563	1/1	0.99	0.07	34,34,34,34	0
55	MG	2A	3564	1/1	0.99	0.04	42,42,42,42	0
55	MG	1A	3626	1/1	0.99	0.06	27,27,27,27	0
55	MG	1A	4019	1/1	0.99	0.09	33,33,33,33	0
55	MG	1A	3689	1/1	0.99	0.03	31,31,31,31	0
55	MG	2A	3750	1/1	0.99	0.07	59,59,59,59	0
55	MG	1A	3714	1/1	0.99	0.03	20,20,20,20	0
55	MG	1A	3690	1/1	0.99	0.03	38,38,38,38	0
55	MG	1A	3772	1/1	0.99	0.04	46,46,46,46	0
55	MG	1A	3919	1/1	0.99	0.04	37,37,37,37	0
55	MG	1A	3627	1/1	0.99	0.06	37,37,37,37	0
55	MG	1A	3058	1/1	0.99	0.04	35,35,35,35	0
55	MG	1A	3693	1/1	0.99	0.03	30,30,30,30	0
55	MG	1A	3638	1/1	0.99	0.03	26,26,26,26	0
55	MG	2A	3759	1/1	0.99	0.03	64,64,64,64	0
55	MG	1A	3924	1/1	0.99	0.03	36,36,36,36	0
55	MG	1A	3925	1/1	0.99	0.03	33,33,33,33	0
55	MG	1A	3695	1/1	0.99	0.07	31,31,31,31	0
55	MG	1A	3639	1/1	0.99	0.09	48,48,48,48	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	1A	3221	1/1	0.99	0.06	48,48,48,48	0
55	MG	1A	4036	1/1	0.99	0.06	49,49,49,49	0
55	MG	1A	3674	1/1	0.99	0.03	29,29,29,29	0
55	MG	1A	4038	1/1	0.99	0.05	51,51,51,51	0
55	MG	1a	1799	1/1	0.99	0.03	52,52,52,52	0
55	MG	2A	3585	1/1	0.99	0.04	38,38,38,38	0
55	MG	1E	314	1/1	0.99	0.05	39,39,39,39	0
55	MG	1a	1801	1/1	0.99	0.04	51,51,51,51	0
55	MG	1A	3979	1/1	0.99	0.06	46,46,46,46	0
55	MG	1A	3781	1/1	0.99	0.08	31,31,31,31	0
55	MG	1A	3442	1/1	0.99	0.17	58,58,58,58	0
55	MG	1a	1730	1/1	0.99	0.03	58,58,58,58	0
55	MG	1A	3752	1/1	0.99	0.07	44,44,44,44	0
55	MG	1A	3653	1/1	0.99	0.03	25,25,25,25	0
55	MG	1a	1733	1/1	0.99	0.04	37,37,37,37	0
55	MG	2A	3123	1/1	0.99	0.04	53,53,53,53	0
55	MG	1A	3785	1/1	0.99	0.04	23,23,23,23	0
55	MG	1a	1735	1/1	0.99	0.04	44,44,44,44	0
55	MG	1A	3677	1/1	0.99	0.09	38,38,38,38	0
55	MG	2A	3511	1/1	0.99	0.04	38,38,38,38	0
55	MG	1A	3703	1/1	0.99	0.04	26,26,26,26	0
55	MG	1A	3642	1/1	0.99	0.04	29,29,29,29	0
55	MG	1A	3988	1/1	0.99	0.07	66,66,66,66	0
55	MG	1A	3897	1/1	0.99	0.04	27,27,27,27	0
55	MG	2A	3516	1/1	0.99	0.08	46,46,46,46	0
55	MG	1A	3789	1/1	0.99	0.04	33,33,33,33	0
55	MG	1a	1742	1/1	0.99	0.04	46,46,46,46	0
55	MG	1a	1743	1/1	0.99	0.08	38,38,38,38	0
55	MG	1A	3991	1/1	0.99	0.07	28,28,28,28	0
55	MG	1A	3941	1/1	0.99	0.09	28,28,28,28	0
55	MG	1A	3790	1/1	0.99	0.04	27,27,27,27	0
55	MG	1A	4054	1/1	0.99	0.05	29,29,29,29	0
55	MG	2A	3797	1/1	0.99	0.07	44,44,44,44	0
55	MG	2A	3798	1/1	0.99	0.07	41,41,41,41	0
55	MG	2A	3703	1/1	0.99	0.04	41,41,41,41	0
55	MG	1H	201	1/1	0.99	0.14	34,34,34,34	0
55	MG	1A	3943	1/1	0.99	0.05	37,37,37,37	0
58	ZN	1Y	203	1/1	0.99	0.02	68,68,68,68	0
55	MG	2A	3526	1/1	0.99	0.04	38,38,38,38	0
58	ZN	2Y	202	1/1	0.99	0.03	105,105,105,105	0
55	MG	1X	105	1/1	0.99	0.05	42,42,42,42	0
58	ZN	25	105	1/1	0.99	0.05	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
58	ZN	26	501	1/1	0.99	0.04	72,72,72,72	0
58	ZN	29	501	1/1	0.99	0.04	82,82,82,82	0
55	MG	1A	3995	1/1	0.99	0.07	30,30,30,30	0
59	SF4	1d	302	8/8	0.99	0.05	64,76,82,82	0
55	MG	1A	3945	1/1	0.99	0.05	40,40,40,40	0
55	MG	2A	3620	1/1	0.99	0.06	43,43,43,43	0
55	MG	2A	3808	1/1	0.99	0.04	49,49,49,49	0
55	MG	1A	4006	1/1	1.00	0.06	17,17,17,17	0
55	MG	2A	3701	1/1	1.00	0.06	35,35,35,35	0
55	MG	1A	3683	1/1	1.00	0.02	41,41,41,41	0
55	MG	1A	3765	1/1	1.00	0.02	41,41,41,41	0
55	MG	1a	1793	1/1	1.00	0.04	45,45,45,45	0
55	MG	1A	3634	1/1	1.00	0.04	33,33,33,33	0
55	MG	1A	3818	1/1	1.00	0.04	32,32,32,32	0
55	MG	1A	3807	1/1	1.00	0.06	27,27,27,27	0
55	MG	1A	3697	1/1	1.00	0.02	28,28,28,28	0
55	MG	2A	3709	1/1	1.00	0.03	46,46,46,46	0
55	MG	2A	3762	1/1	1.00	0.03	46,46,46,46	0
55	MG	1A	3685	1/1	1.00	0.09	24,24,24,24	0
55	MG	1A	3629	1/1	1.00	0.02	42,42,42,42	0
55	MG	2A	3590	1/1	1.00	0.03	46,46,46,46	0
55	MG	2A	3591	1/1	1.00	0.02	47,47,47,47	0
55	MG	1A	3944	1/1	1.00	0.03	29,29,29,29	0
55	MG	1A	3742	1/1	1.00	0.02	26,26,26,26	0
55	MG	2A	3527	1/1	1.00	0.04	44,44,44,44	0
58	ZN	15	109	1/1	1.00	0.02	46,46,46,46	0
58	ZN	16	102	1/1	1.00	0.04	50,50,50,50	0
58	ZN	19	102	1/1	1.00	0.03	46,46,46,46	0
58	ZN	1n	102	1/1	1.00	0.03	77,77,77,77	0
55	MG	1A	3743	1/1	1.00	0.04	23,23,23,23	0
55	MG	2A	3550	1/1	1.00	0.07	33,33,33,33	0
55	MG	1A	3933	1/1	1.00	0.04	41,41,41,41	0
55	MG	1A	4069	1/1	1.00	0.02	34,34,34,34	0
55	MG	1A	4035	1/1	1.00	0.02	26,26,26,26	0
55	MG	1A	3646	1/1	1.00	0.10	35,35,35,35	0
55	MG	1E	311	1/1	1.00	0.05	25,25,25,25	0
55	MG	1A	3688	1/1	1.00	0.02	23,23,23,23	0
55	MG	2A	3805	1/1	1.00	0.04	36,36,36,36	0
55	MG	1A	4021	1/1	1.00	0.02	47,47,47,47	0

6.5 Other polymers [i](#)

There are no such residues in this entry.