



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 4, 2024 – 11:10 am GMT

PDB ID : 5IB8
Title : Structure of T. thermophilus 70S ribosome complex with mRNA, tRNA^{fMet} and near-cognate tRNA^{Lys} with U-G mismatch in the A-site
Authors : Rozov, A.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on : 2016-02-22
Resolution : 3.13 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 : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

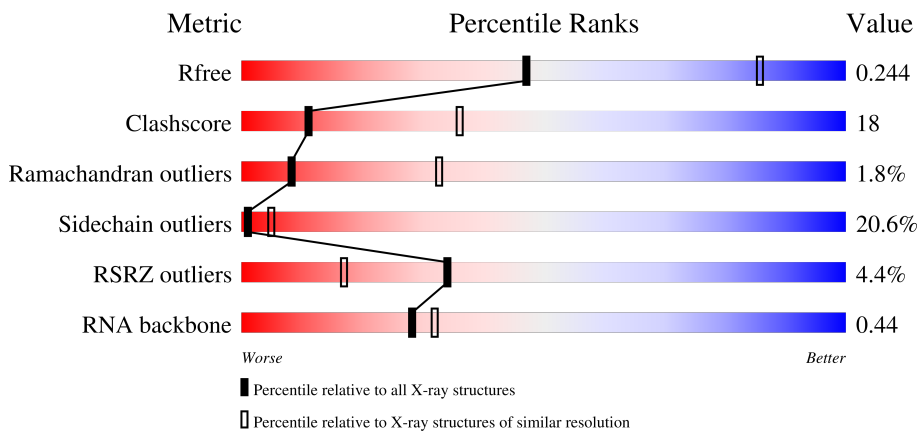
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.13 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1626 (3.18-3.10)
Clashscore	141614	1735 (3.18-3.10)
Ramachandran outliers	138981	1677 (3.18-3.10)
Sidechain outliers	138945	1677 (3.18-3.10)
RSRZ outliers	127900	1588 (3.18-3.10)
RNA backbone	3102	1000 (3.46-2.82)

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	13	1522	 33% 49% 15% ..
1	1G	1522	 34% 47% 16% ..
2	12	256	 5% 32% 38% 11% • 19%
2	1E	256	 2% 38% 42% 9% • 10%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	22	239	
3	2E	239	
4	32	209	
4	3E	209	
5	42	162	
5	4E	162	
6	52	101	
6	5E	101	
7	62	156	
7	6E	156	
8	72	138	
8	7E	138	
9	82	128	
9	8E	128	
10	1A	105	
10	1I	105	
11	2A	129	
11	2I	129	
12	3A	132	
12	3I	132	
13	4A	126	
13	4I	126	
14	5A	61	
14	5I	61	
15	6A	89	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
15	6I	89	2% 53% 38% 7%
16	7A	88	49% 44% 5%
16	7I	88	36% 49% 9% 6%
17	8A	105	57% 32% 5% 6%
17	8I	105	14% 36% 50% 10% 5%
18	9A	88	40% 31% 6% 24%
18	9I	88	41% 33% 23%
19	AA	93	10% 30% 28% 12% 30%
19	AI	93	8% 46% 27% 14% 12%
20	BA	106	16% 50% 38% 7%
20	BI	106	20% 40% 48% 8%
21	1B	27	15% 44% 33% 19%
21	1F	27	37% 37% 11% 15%
22	1K	76	20% 45% 22% 8% 5%
23	2K	77	3% 38% 34% 22% 6%
23	2L	77	39% 43% 16%
24	3K	76	25% 17% 38% 30% 7% 8%
24	3L	76	3% 18% 45% 29% 5%
25	4K	30	13% 23% 13% 27% 33%
25	4L	30	3% 7% 27% 23% 7% 37%
26	14	2917	35% 41% 17%
26	1H	2917	34% 42% 18%
27	16	122	44% 39% 11% 6%
27	1J	122	34% 42% 22%
28	7I	229	4% 27% 23% 7% 42%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
29	11	276	47% 42% 9% ..
29	19	276	54% 33% 12% .
30	21	206	44% 35% 17% ..
30	29	206	38% 42% 17% ..
31	31	210	50% 37% 9% .
31	39	210	38% 42% 15% ..
32	41	182	42% 46% 10% ..
32	49	182	38% 49% 12% .
33	51	180	42% 38% 14% . .
33	59	180	37% 43% 12% . 6%
34	61	148	49% 33% 14% ..
34	69	148	43% 35% 19% ..
35	15	140	54% 32% 12% .
35	58	140	40% 46% 11% ..
36	25	122	49% 43% 7% .
36	68	122	60% 36% .
37	35	150	43% 37% 17% ..
37	78	150	33% 44% 15% 6% .
38	45	141	41% 43% 13% ..
38	88	141	52% 37% 11%
39	55	118	51% 42% 6% .
39	98	118	40% 51% 8% .
40	65	112	36% 49% 13% .
40	A8	112	32% 50% 16% ..
41	75	146	39% 38% 12% . 9%





Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
41	B8	146	
42	85	118	
42	C8	118	
43	95	101	
43	D8	101	
44	A5	113	
44	E8	113	
45	B5	96	
45	F8	96	
46	C5	110	
46	G8	110	
47	D5	206	
47	H8	206	
48	E5	85	
48	I8	85	
49	F5	98	
49	J8	98	
50	G5	72	
50	K8	72	
51	H5	60	
51	L8	60	
52	M8	71	
53	J5	60	
53	N8	60	
54	L5	49	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
54	P8	49	
55	M5	65	
55	Q8	65	
56	1L	76	

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
57	MG	13	1610	-	-	-	X
57	MG	13	1621	-	-	-	X
57	MG	13	1638	-	-	-	X
57	MG	13	1648	-	-	-	X
57	MG	13	1655	-	-	-	X
57	MG	14	3074	-	-	-	X
57	MG	14	3079	-	-	-	X
57	MG	14	3103	-	-	-	X
57	MG	14	3115	-	-	-	X
57	MG	14	3133	-	-	-	X
57	MG	14	3134	-	-	-	X
57	MG	14	3138	-	-	-	X
57	MG	14	3160	-	-	-	X
57	MG	14	3163	-	-	-	X
57	MG	14	3165	-	-	-	X
57	MG	14	3175	-	-	-	X
57	MG	14	3177	-	-	-	X
57	MG	14	3183	-	-	-	X
57	MG	14	3187	-	-	-	X
57	MG	14	3194	-	-	-	X
57	MG	14	3199	-	-	-	X
57	MG	1G	1609	-	-	-	X
57	MG	1G	1611	-	-	-	X
57	MG	1G	1620	-	-	-	X
57	MG	1H	3077	-	-	-	X
57	MG	1H	3087	-	-	-	X
57	MG	1H	3089	-	-	-	X
57	MG	1H	3142	-	-	-	X
57	MG	1H	3157	-	-	-	X
57	MG	1H	3162	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	MG	1H	3167	-	-	-	X
57	MG	1H	3176	-	-	-	X
57	MG	1H	3215	-	-	-	X
57	MG	1H	3237	-	-	-	X
57	MG	1H	3540	-	-	-	X
57	MG	1H	3548	-	-	-	X
57	MG	E5	101	-	-	-	X
57	MG	P8	101	-	-	-	X
58	SF4	32	302	-	-	X	-

2 Entry composition [i](#)

There are 61 unique types of molecules in this entry. The entry contains 296999 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 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	13	1500	Total 32246	C 14352	N 5978	O 10416	P 1500	0	0	0
1	1G	1509	Total 32437	C 14437	N 6010	O 10481	P 1509	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
13	1542	G	U	conflict	GB 55771382
1G	1542	G	U	conflict	GB 55771382

- Molecule 2 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	1E	231	Total 1874	C 1199	N 334	O 336	S 5	0	0	0
2	12	207	Total 1696	C 1083	N 306	O 303	S 4	0	0	0

- Molecule 3 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	2E	205	Total 1605	C 1011	N 313	O 280	S 1	0	0	0
3	22	195	Total 1537	C 973	N 297	O 266	S 1	0	0	0

- Molecule 4 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	3E	207	Total 1698	C 1064	N 338	O 289	S 7	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	32	208	1702	1066	339	290	7	0	0	0

- Molecule 5 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
5	4E	149	1142	722	216	200	4	0	0	0
5	42	150	1141	719	217	201	4	0	0	0

- Molecule 6 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
6	5E	100	837	528	154	152	3	0	0	0
6	52	101	842	531	155	153	3	0	0	0

- Molecule 7 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
7	6E	154	1242	770	250	216	6	0	0	0
7	62	138	1110	689	221	194	6	0	0	0

- Molecule 8 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
8	7E	138	1115	705	215	192	3	0	0	0
8	72	137	1107	700	214	191	2	0	0	0

- Molecule 9 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
9	8E	126	1000	634	196	170	0	0	0
9	82	121	953	605	186	162	0	0	0

- Molecule 10 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	94	Total	C	N	O	S	0	0	0
			749	468	147	133	1			
10	1A	80	Total	C	N	O		0	0	0
			646	403	129	114				

- Molecule 11 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	2I	111	Total	C	N	O	S	0	0	0
			823	512	154	154	3			
11	2A	113	Total	C	N	O	S	0	0	0
			835	520	156	156	3			

- Molecule 12 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	3I	122	Total	C	N	O	S	0	0	0
			956	603	193	159	1			
12	3A	121	Total	C	N	O	S	0	0	0
			947	597	191	158	1			

- Molecule 13 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	4I	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			
13	4A	109	Total	C	N	O	S	0	0	0
			879	544	181	152	2			

- Molecule 14 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	5I	59	Total	C	N	O	S	0	0	0
			486	309	103	70	4			
14	5A	59	Total	C	N	O	S	0	0	0
			486	309	103	70	4			

- Molecule 15 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	6I	87	Total	C	N	O	S	0	0	0
			729	457	146	124	2			
15	6A	87	Total	C	N	O	S	0	0	0
			729	457	146	124	2			

- Molecule 16 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			
16	7A	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			

- Molecule 17 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	8I	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			
17	8A	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 18 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	9I	68	Total	C	N	O	0	0	0
			549	352	105	92			
18	9A	67	Total	C	N	O	0	0	0
			544	349	104	91			

- Molecule 19 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AI	82	Total	C	N	O	S	0	0	0
			661	422	123	114	2			
19	AA	65	Total	C	N	O	S	0	0	0
			510	324	92	92	2			

- Molecule 20 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	BI	97	Total	C	N	O	S	0	0	0
			746	461	157	126	2			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
20	BA	99	762	470	162	128	2	0	0	0

- Molecule 21 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
21	1F	23	199	122	48	29	0	0	0
21	1B	22	188	116	44	28	0	0	0

- Molecule 22 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	P	S			
22	1K	72	1542	691	269	509	72	1	0	0	0

- Molecule 23 is a RNA chain called tRNA^{Met}.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	P	S			
23	2K	77	1646	735	298	535	77	1	0	0	0
23	2L	77	1646	735	298	535	77	1	0	0	0

- Molecule 24 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
24	3K	70	1483	664	260	490	69	0	0	0
24	3L	72	1528	684	270	503	71	0	0	0

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
25	4K	20	442	198	94	130	20	0	0	0
25	4L	19	419	188	89	123	19	0	0	0

- Molecule 26 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
26	1H	2831	60991	27142	11416	19602	2831	0	0	0
26	14	2825	60857	27083	11390	19559	2825	0	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1H	161	U	UNK	conflict	GB 55771382
1H	654A	A	G	conflict	GB 55771382
1H	654E	C	G	conflict	GB 55771382
1H	654P	G	C	conflict	GB 55771382
1H	654T	A	C	conflict	GB 55771382
1H	1058	U	G	conflict	GB 55771382
1H	1080	A	C	conflict	GB 55771382
14	158	U	UNK	conflict	GB 55771382
14	654A	A	G	conflict	GB 55771382
14	654E	C	G	conflict	GB 55771382
14	654P	G	C	conflict	GB 55771382
14	654T	A	C	conflict	GB 55771382
14	1058	U	G	conflict	GB 55771382
14	1080	A	C	conflict	GB 55771382

- Molecule 27 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
27	16	122	2617	1166	486	844	121	0	0	0
27	1J	122	2617	1166	486	844	121	0	0	0

- Molecule 28 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
28	71	132	1027	648	193	185	1	0	0	0

- Molecule 29 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
29	11	273	2120	1338	421	358	3	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
29	19	274	2125	1341	422	359	3	0	0	0

- Molecule 30 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
30	21	203	1546	978	295	267	6	0	0	0
30	29	204	1563	988	299	270	6	0	0	0

- Molecule 31 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
31	31	202	1585	1011	297	275	2	0	0	0
31	39	204	1602	1022	299	279	2	0	0	0

- Molecule 32 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
32	41	179	1457	931	265	257	4	0	0	0
32	49	180	1459	931	266	258	4	0	0	0

- Molecule 33 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
33	51	174	1328	842	249	236	1	0	0	0
33	59	169	1295	823	241	230	1	0	0	0

- Molecule 34 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
34	61	145	1131	723	200	207	1	0	0	0
34	69	145	1131	723	200	207	1	0	0	0

- Molecule 35 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	58	137	Total	C	N	O	S	0	0	0
			1096	706	205	181	4			
35	15	137	Total	C	N	O	S	0	0	0
			1096	707	205	181	3			

- Molecule 36 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	68	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			
36	25	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			

- Molecule 37 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	78	147	Total	C	N	O	S	0	0	0
			1122	698	229	192	3			
37	35	147	Total	C	N	O	S	0	0	0
			1122	698	229	192	3			

- Molecule 38 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	88	141	Total	C	N	O	S	0	0	0
			1117	712	211	187	7			
38	45	138	Total	C	N	O	S	0	0	0
			1099	702	208	183	6			

- Molecule 39 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	98	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			
39	55	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			

- Molecule 40 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	A8	111	Total	C	N	O	0	0	0
			881	556	176	149			
40	65	110	Total	C	N	O	0	0	0
			876	553	175	148			

- Molecule 41 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	B8	135	Total	C	N	O	S	0	0	0
			1119	697	230	191	1			
41	75	133	Total	C	N	O	S	0	0	0
			1109	691	228	189	1			

- Molecule 42 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	C8	115	Total	C	N	O	S	0	0	0
			950	603	199	147	1			
42	85	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			

- Molecule 43 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	D8	100	Total	C	N	O	S	0	0	0
			774	499	141	133	1			
43	95	100	Total	C	N	O	S	0	0	0
			770	496	140	133	1			

- Molecule 44 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	E8	110	Total	C	N	O	S	0	0	0
			876	552	171	151	2			
44	A5	111	Total	C	N	O	S	0	0	0
			886	558	174	152	2			

- Molecule 45 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	F8	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	B5	94	Total	C	N	O	0	0	0
			735	477	133	125			

- Molecule 46 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	G8	103	Total	C	N	O	S	0	0	0
			783	504	148	126	5			
46	C5	104	Total	C	N	O	S	0	0	0
			794	510	152	127	5			

- Molecule 47 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	H8	170	Total	C	N	O	S	0	0	0
			1365	870	246	246	3			
47	D5	177	Total	C	N	O	S	0	0	0
			1411	901	253	255	2			

- Molecule 48 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	I8	77	Total	C	N	O	S	0	0	0
			611	378	129	103	1			
48	E5	76	Total	C	N	O	S	0	0	0
			603	372	128	102	1			

- Molecule 49 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	J8	96	Total	C	N	O	S	0	0	0
			747	469	148	129	1			
49	F5	94	Total	C	N	O	S	0	0	0
			737	463	146	127	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	K8	68	Total	C	N	O	S	0	0	0
			575	358	116	100	1			
50	G5	69	Total	C	N	O	S	0	0	0
			576	358	116	101	1			

- Molecule 51 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
51	L8	58	Total	C	N	O	0	0	0
			459	293	89	77			
51	H5	58	Total	C	N	O	0	0	0
			459	293	89	77			

- Molecule 52 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
52	M8	60	Total	C	N	O	S	0	0	0
			475	300	84	86	5			

- Molecule 53 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
53	N8	48	Total	C	N	O	S	0	0	0
			369	229	75	60	5			
53	J5	56	Total	C	N	O	S	0	0	0
			434	272	87	70	5			

- Molecule 54 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
54	P8	47	Total	C	N	O	S	0	0	0
			401	246	99	54	2			
54	L5	47	Total	C	N	O	S	0	0	0
			401	246	99	54	2			

- Molecule 55 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
55	Q8	64	Total	C	N	O	S	0	0	0
			516	331	102	81	2			
55	M5	64	Total	C	N	O	S	0	0	0
			516	331	102	81	2			

- Molecule 56 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
56	1L	66	Total	C	N	O	P	0	0	0
			1402	627	244	465	66			

- Molecule 57 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

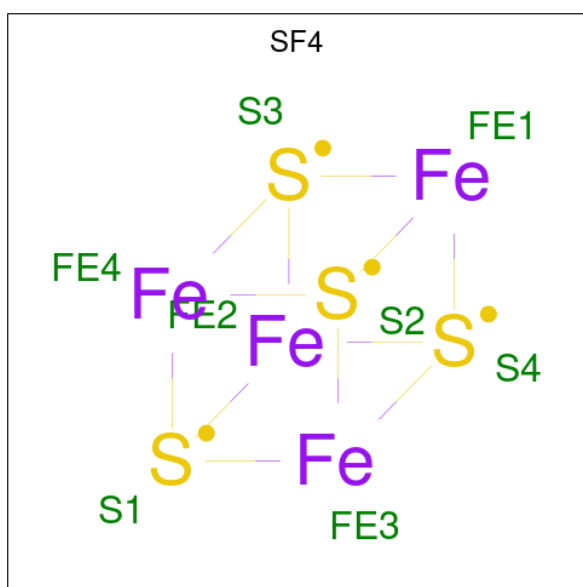
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	13	141	Total Mg 141 141	0	0
57	2I	1	Total Mg 1 1	0	0
57	3I	1	Total Mg 1 1	0	0
57	2K	3	Total Mg 3 3	0	0
57	1H	552	Total Mg 552 552	0	0
57	16	12	Total Mg 12 12	0	0
57	21	3	Total Mg 3 3	0	0
57	31	1	Total Mg 1 1	0	0
57	41	1	Total Mg 1 1	0	0
57	88	3	Total Mg 3 3	0	0
57	F8	1	Total Mg 1 1	0	0
57	I8	2	Total Mg 2 2	0	0
57	P8	1	Total Mg 1 1	0	0
57	Q8	1	Total Mg 1 1	0	0
57	1G	125	Total Mg 125 125	0	0
57	32	1	Total Mg 1 1	0	0
57	42	2	Total Mg 2 2	0	0
57	52	1	Total Mg 1 1	0	0
57	7A	1	Total Mg 1 1	0	0
57	2L	2	Total Mg 2 2	0	0
57	4L	1	Total Mg 1 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	14	460	Total Mg 460 460	0	0
57	1J	10	Total Mg 10 10	0	0
57	19	1	Total Mg 1 1	0	0
57	29	1	Total Mg 1 1	0	0
57	39	1	Total Mg 1 1	0	0
57	25	1	Total Mg 1 1	0	0
57	35	2	Total Mg 2 2	0	0
57	45	1	Total Mg 1 1	0	0
57	B5	1	Total Mg 1 1	0	0
57	E5	2	Total Mg 2 2	0	0
57	M5	1	Total Mg 1 1	0	0

- Molecule 58 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).

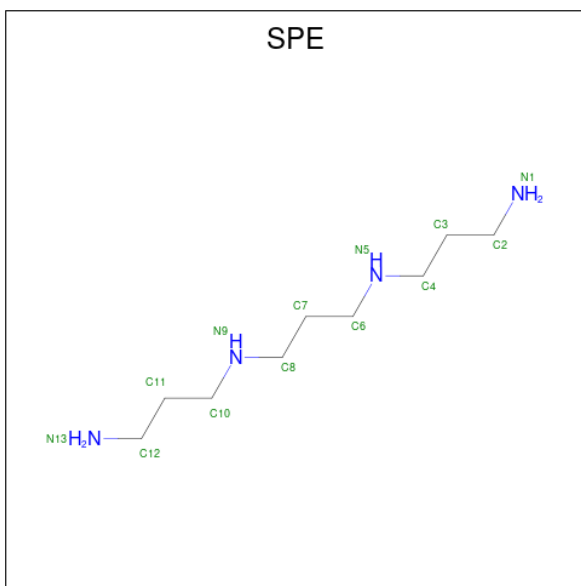


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
58	3E	1	Total	Fe	S	0	0
			8	4	4		
58	32	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 59 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	5I	1	Total	Zn	0	0
			1	1		
59	G8	1	Total	Zn	0	0
			1	1		
59	5A	1	Total	Zn	0	0
			1	1		
59	C5	1	Total	Zn	0	0
			1	1		

- Molecule 60 is THERMINE (three-letter code: SPE) (formula: C₉H₂₄N₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
60	1G	1	Total	C	N	0	0
			13	9	4		
60	14	1	Total	C	N	0	0
			13	9	4		

- Molecule 61 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	13	354	Total 354	O 354	0	0
61	3E	2	Total 2	O 2	0	0
61	4E	3	Total 3	O 3	0	0
61	8E	2	Total 2	O 2	0	0
61	1I	2	Total 2	O 2	0	0
61	3I	2	Total 2	O 2	0	0
61	5I	1	Total 1	O 1	0	0
61	7I	2	Total 2	O 2	0	0
61	BI	3	Total 3	O 3	0	0
61	1K	1	Total 1	O 1	0	0
61	2K	8	Total 8	O 8	0	0
61	3K	1	Total 1	O 1	0	0
61	4K	5	Total 5	O 5	0	0
61	1H	1720	Total 1720	O 1720	0	0
61	16	12	Total 12	O 12	0	0
61	11	10	Total 10	O 10	0	0
61	21	6	Total 6	O 6	0	0
61	31	6	Total 6	O 6	0	0
61	58	2	Total 2	O 2	0	0
61	68	2	Total 2	O 2	0	0
61	78	13	Total 13	O 13	0	0
61	98	1	Total 1	O 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	B8	1	Total 1	O 1	0	0
61	C8	4	Total 4	O 4	0	0
61	E8	1	Total 1	O 1	0	0
61	F8	3	Total 3	O 3	0	0
61	G8	3	Total 3	O 3	0	0
61	I8	6	Total 6	O 6	0	0
61	J8	5	Total 5	O 5	0	0
61	L8	4	Total 4	O 4	0	0
61	N8	1	Total 1	O 1	0	0
61	Q8	5	Total 5	O 5	0	0
61	1G	364	Total 364	O 364	0	0
61	32	4	Total 4	O 4	0	0
61	42	1	Total 1	O 1	0	0
61	52	4	Total 4	O 4	0	0
61	1A	2	Total 2	O 2	0	0
61	2A	1	Total 1	O 1	0	0
61	4A	2	Total 2	O 2	0	0
61	6A	3	Total 3	O 3	0	0
61	7A	4	Total 4	O 4	0	0
61	9A	2	Total 2	O 2	0	0
61	BA	3	Total 3	O 3	0	0

Continued on next page...

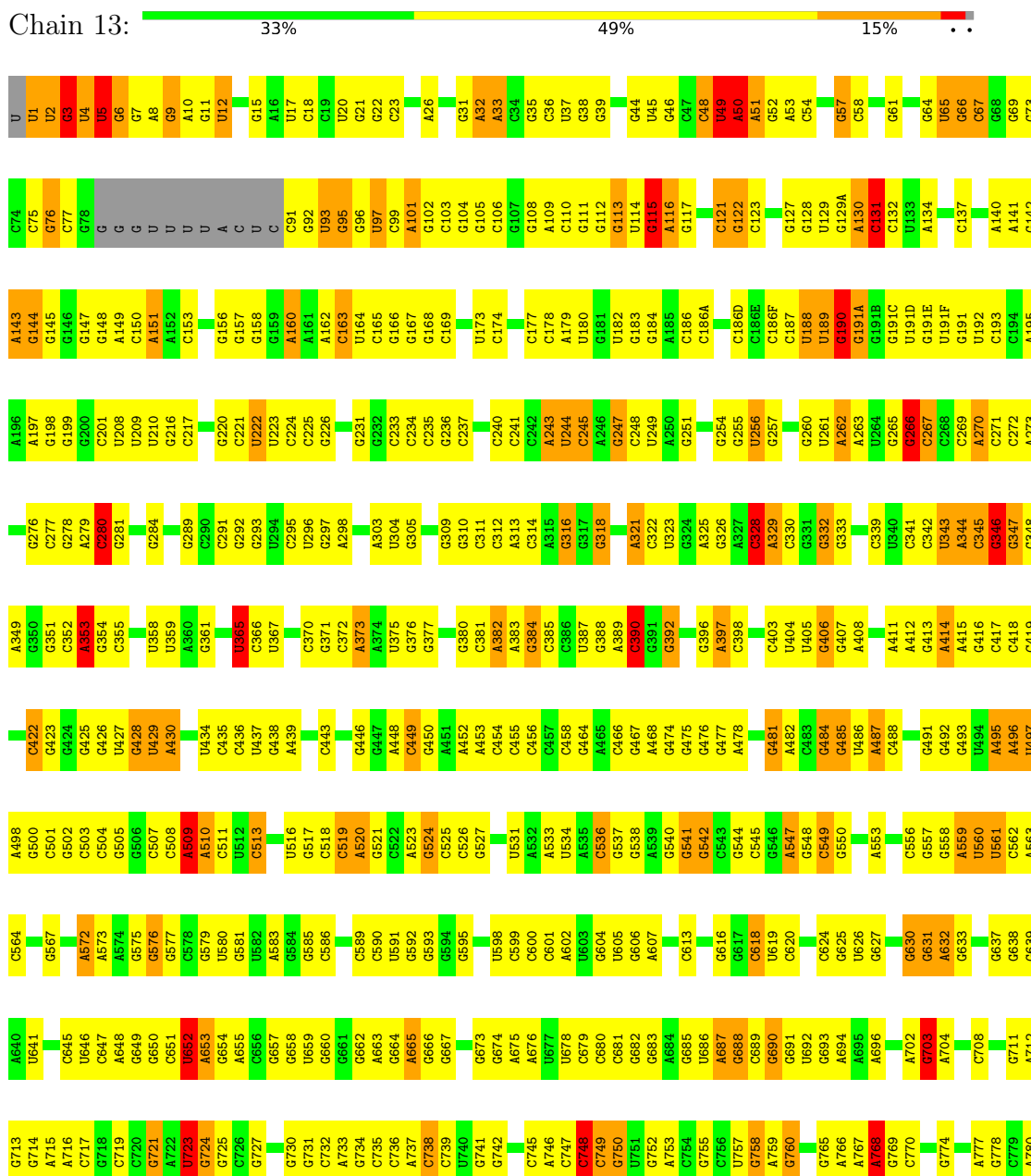
Continued from previous page...

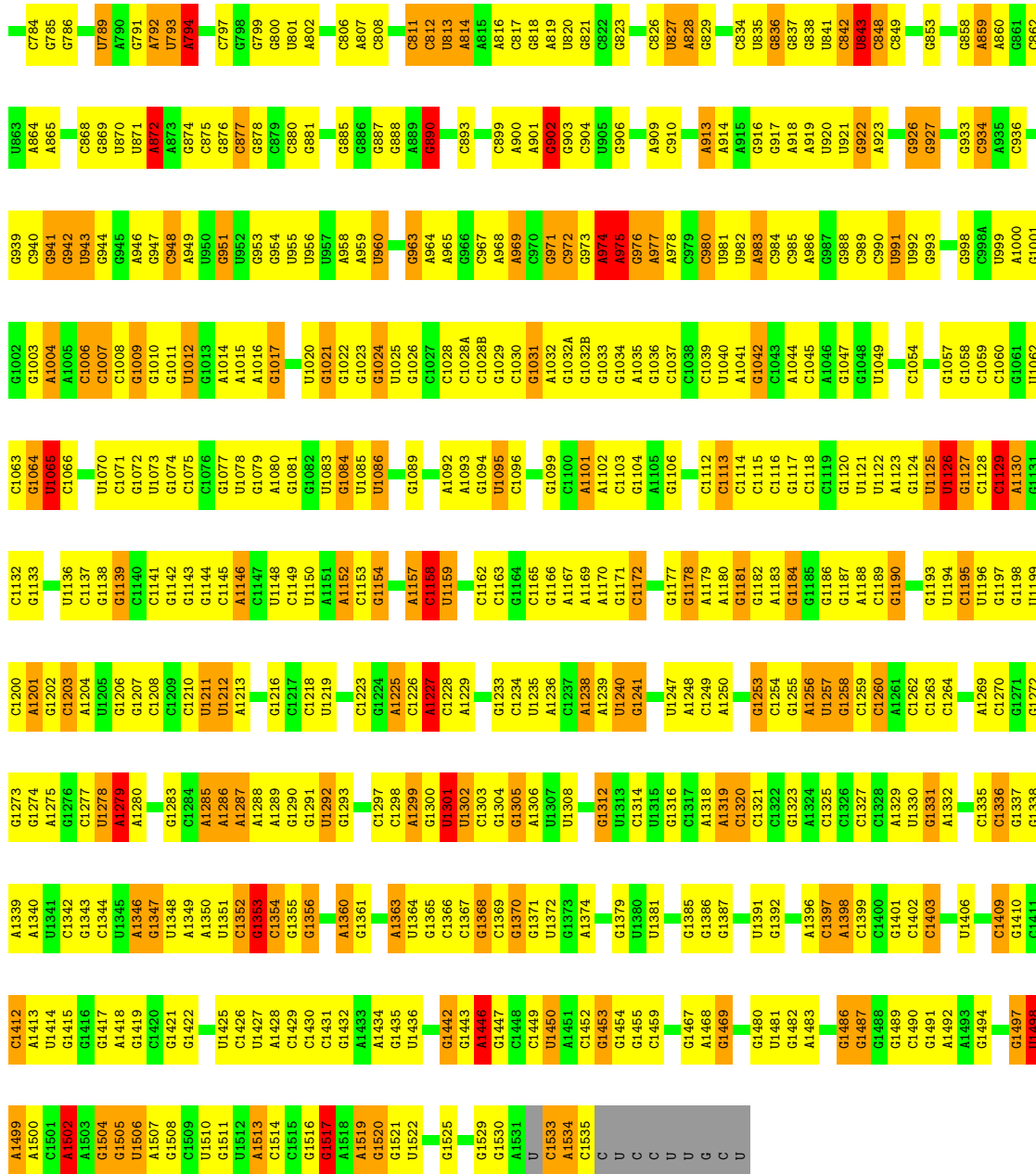
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	2L	8	Total 8	O 8	0	0
61	4L	3	Total 3	O 3	0	0
61	14	1303	Total 1303	O 1303	0	0
61	1J	27	Total 27	O 27	0	0
61	19	14	Total 14	O 14	0	0
61	29	6	Total 6	O 6	0	0
61	39	8	Total 8	O 8	0	0
61	15	3	Total 3	O 3	0	0
61	25	8	Total 8	O 8	0	0
61	35	8	Total 8	O 8	0	0
61	55	1	Total 1	O 1	0	0
61	75	1	Total 1	O 1	0	0
61	85	1	Total 1	O 1	0	0
61	B5	1	Total 1	O 1	0	0
61	C5	3	Total 3	O 3	0	0
61	F5	1	Total 1	O 1	0	0
61	H5	1	Total 1	O 1	0	0
61	L5	1	Total 1	O 1	0	0
61	M5	8	Total 8	O 8	0	0

3 Residue-property plots

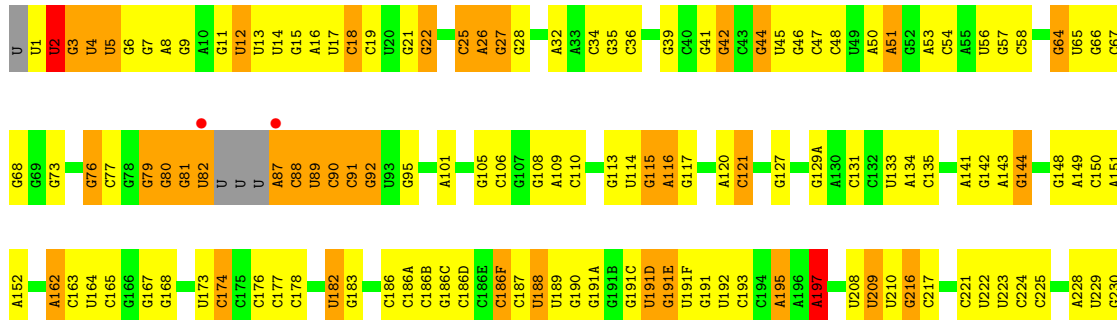
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

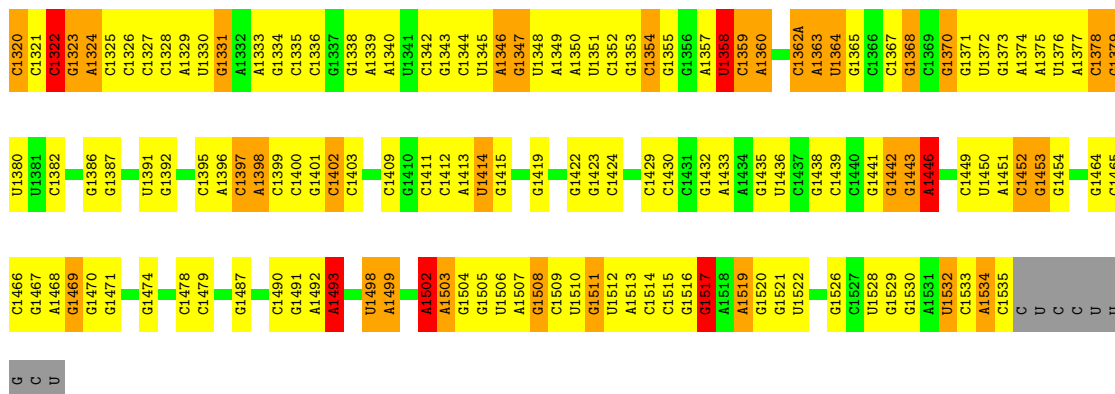
- Molecule 1: 16S ribosomal RNA



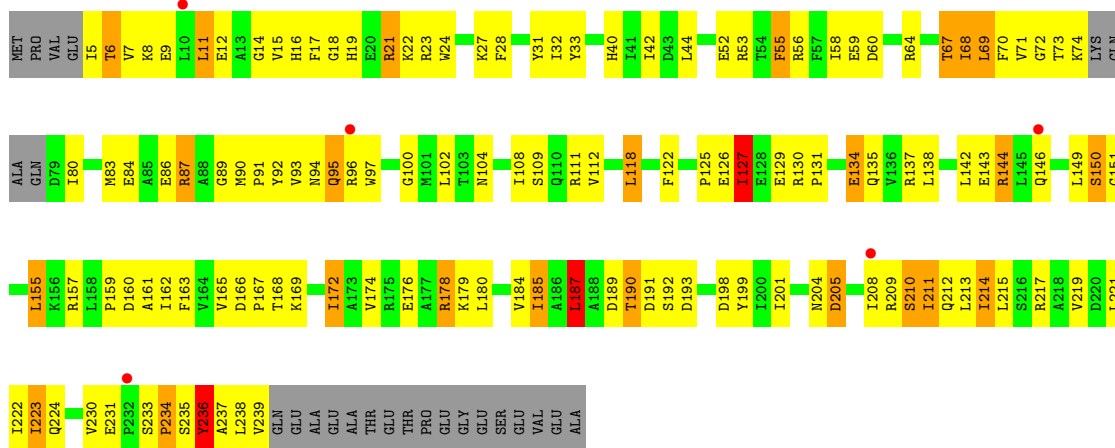


• Molecule 1: 16S ribosomal RNA

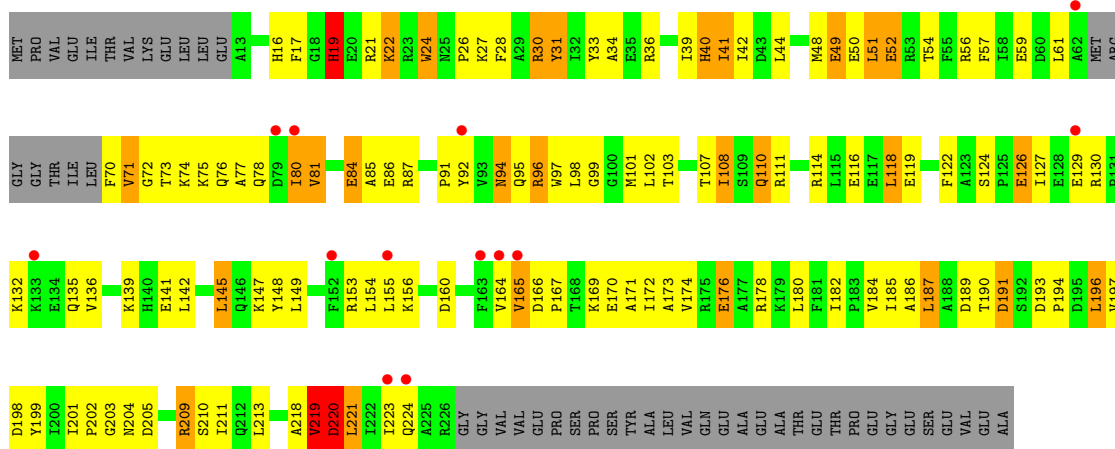




• Molecule 2: 30S ribosomal protein S2



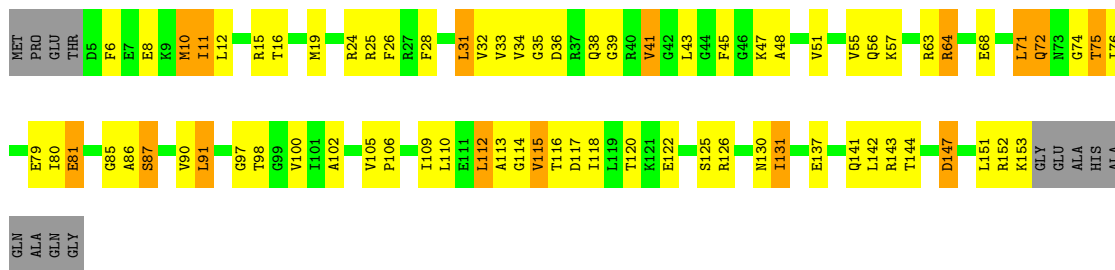
• Molecule 2: 30S ribosomal protein S2



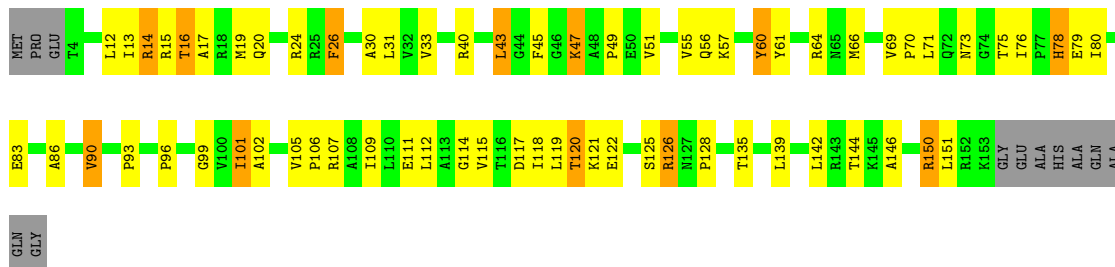
• Molecule 3: 30S ribosomal protein S3



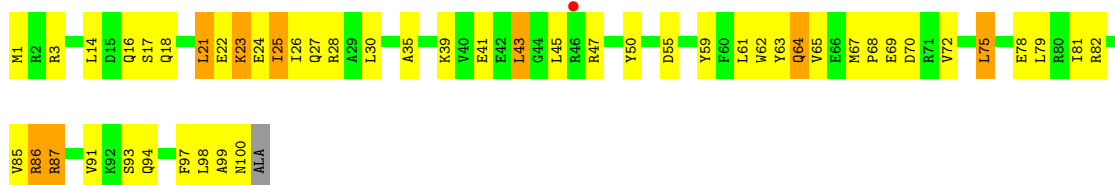
• Molecule 5: 30S ribosomal protein S5



• Molecule 5: 30S ribosomal protein S5

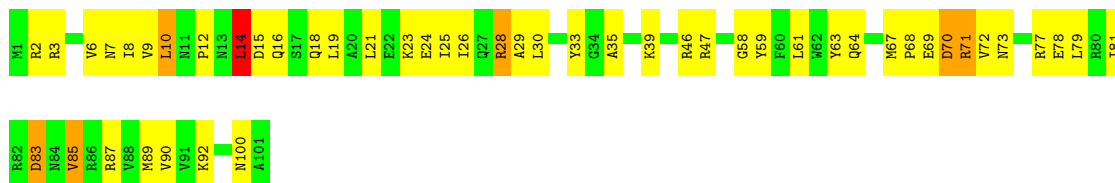


• Molecule 6: 30S ribosomal protein S6

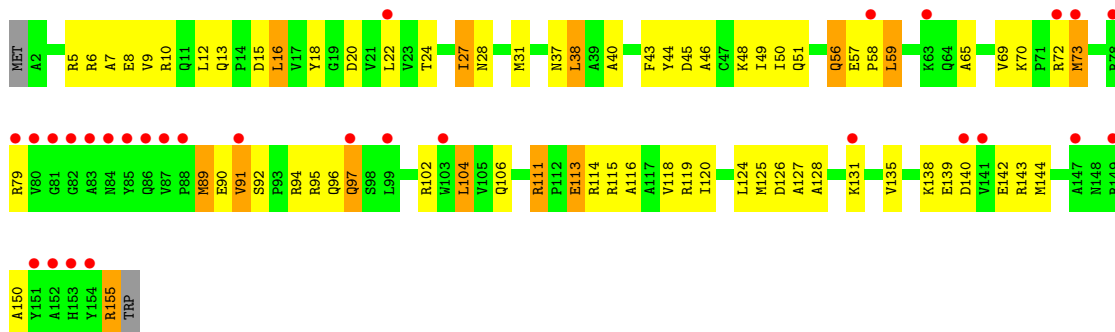


• Molecule 6: 30S ribosomal protein S6

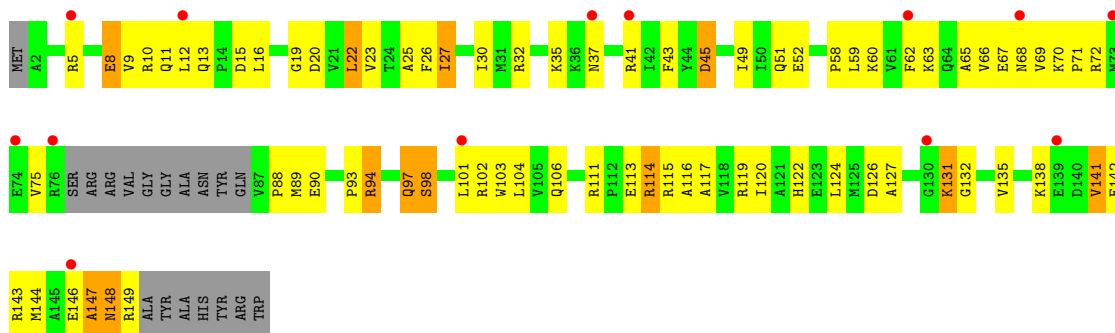
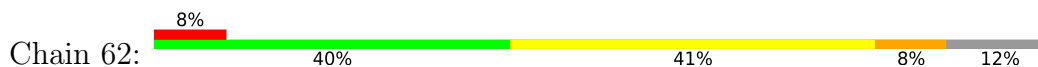




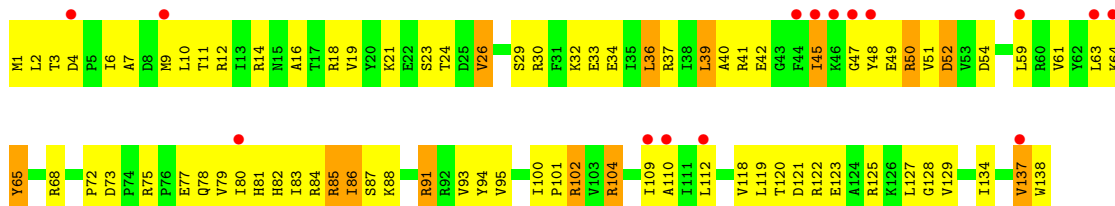
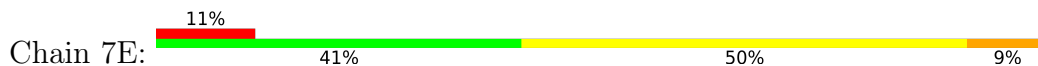
• Molecule 7: 30S ribosomal protein S7



• Molecule 7: 30S ribosomal protein S7

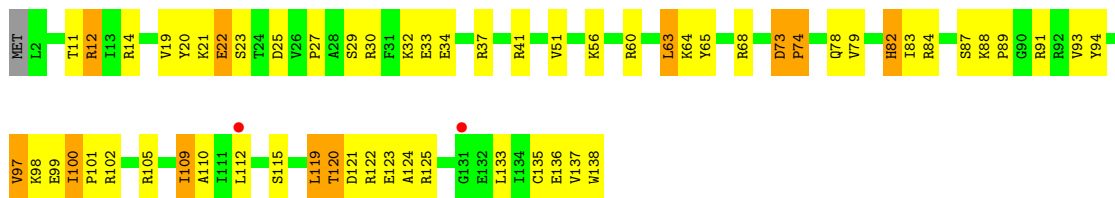


• Molecule 8: 30S ribosomal protein S8

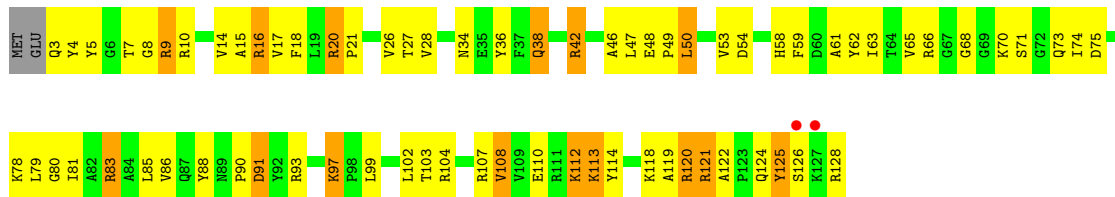
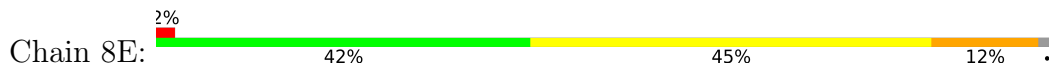


• Molecule 8: 30S ribosomal protein S8

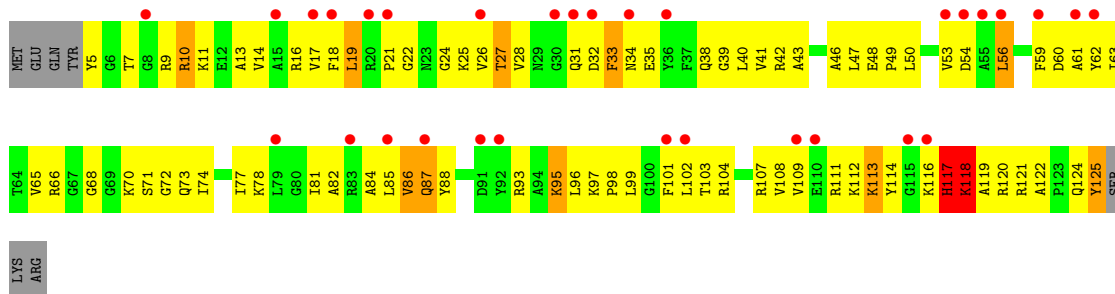




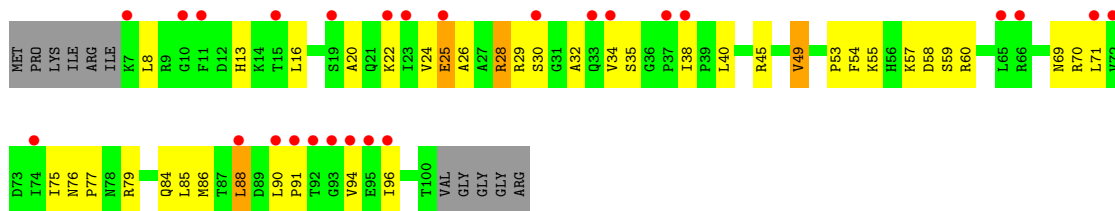
• Molecule 9: 30S ribosomal protein S9



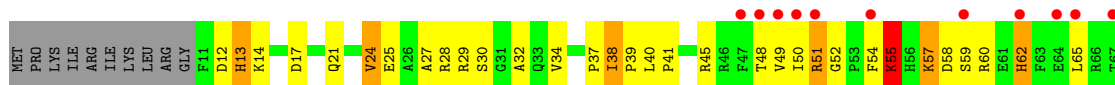
• Molecule 9: 30S ribosomal protein S9

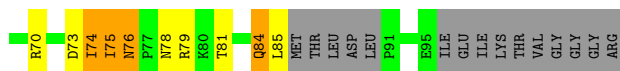


• Molecule 10: 30S ribosomal protein S10

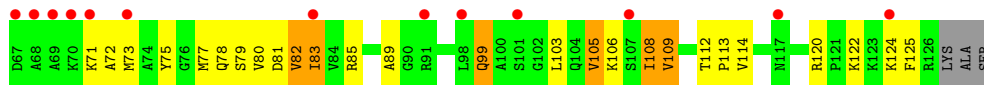
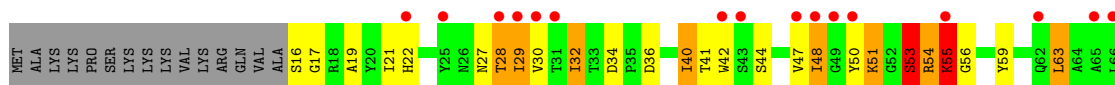


• Molecule 10: 30S ribosomal protein S10

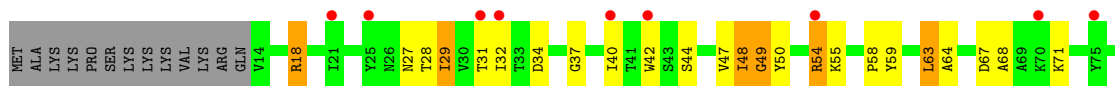




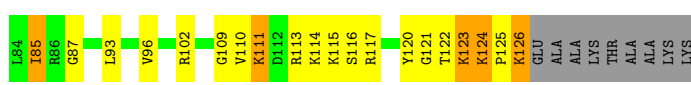
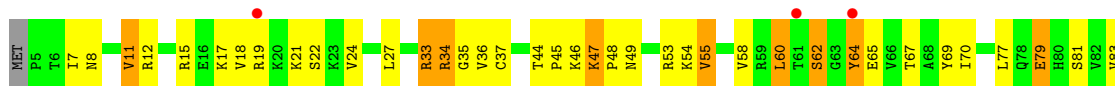
• Molecule 11: 30S ribosomal protein S11



• Molecule 11: 30S ribosomal protein S11



• Molecule 12: 30S ribosomal protein S12

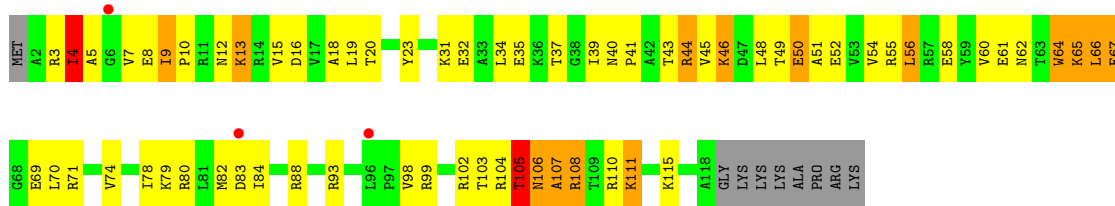


• Molecule 12: 30S ribosomal protein S12

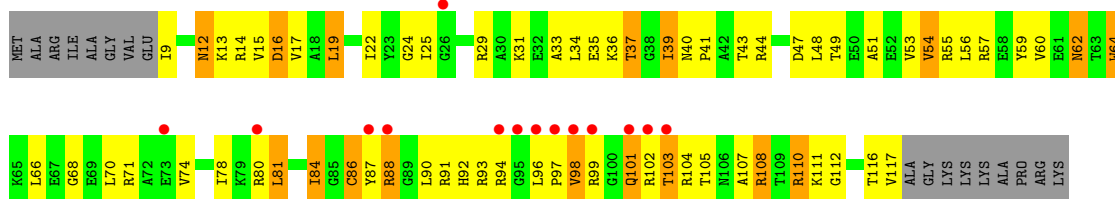


• Molecule 13: 30S ribosomal protein S13

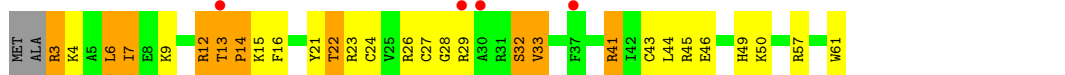




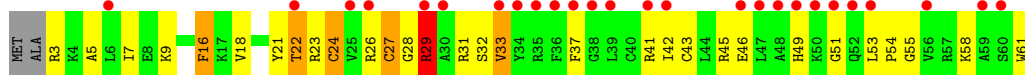
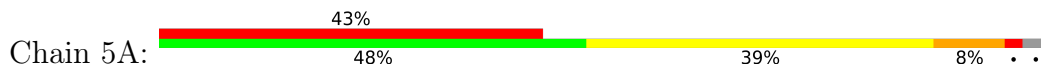
• Molecule 13: 30S ribosomal protein S13



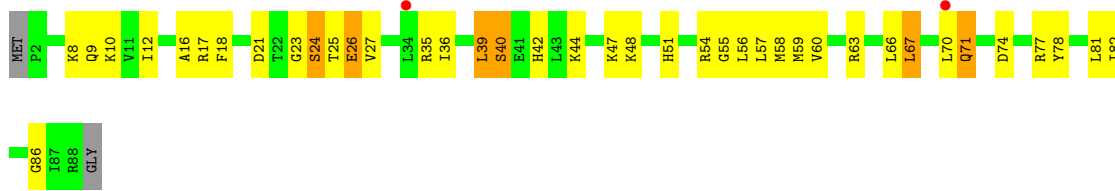
• Molecule 14: 30S ribosomal protein S14 type Z



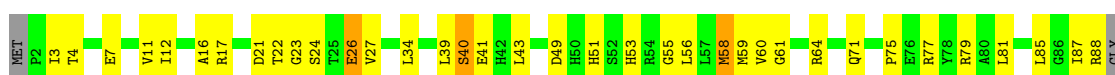
• Molecule 14: 30S ribosomal protein S14 type Z



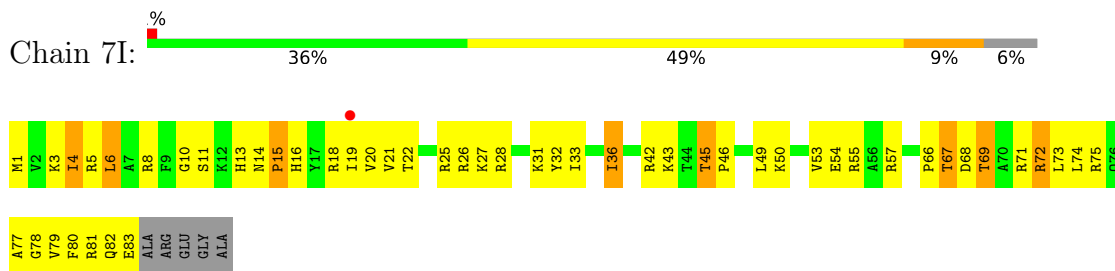
• Molecule 15: 30S ribosomal protein S15



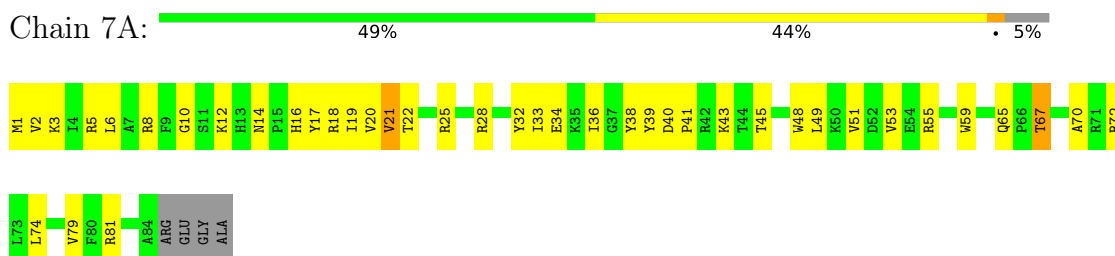
• Molecule 15: 30S ribosomal protein S15



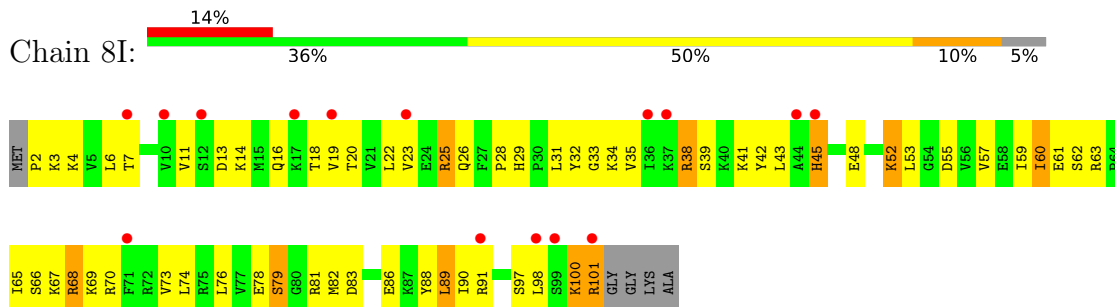
- Molecule 16: 30S ribosomal protein S16



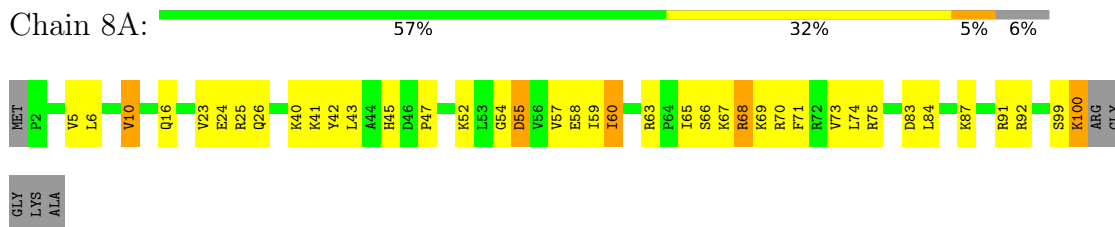
- Molecule 16: 30S ribosomal protein S16



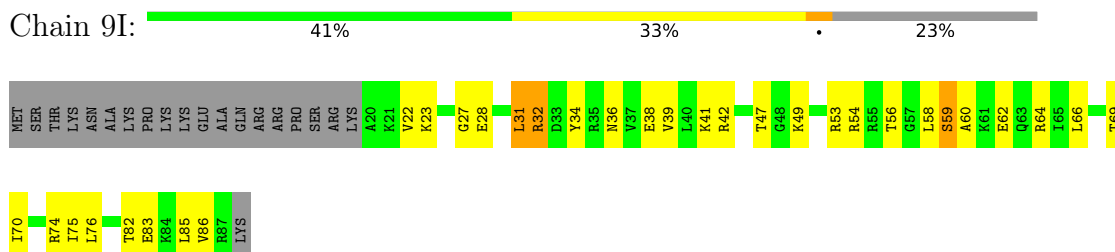
- Molecule 17: 30S ribosomal protein S17

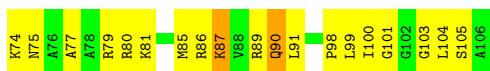


- Molecule 17: 30S ribosomal protein S17



- Molecule 18: 30S ribosomal protein S18

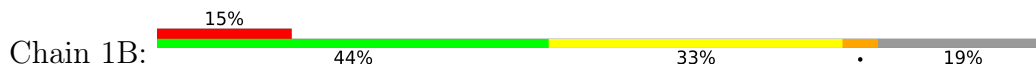




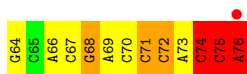
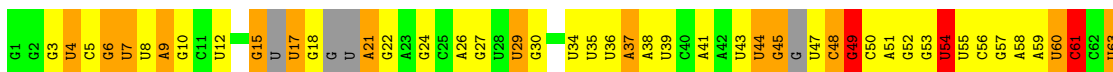
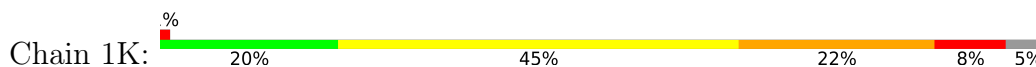
- Molecule 21: 30S ribosomal protein Thx



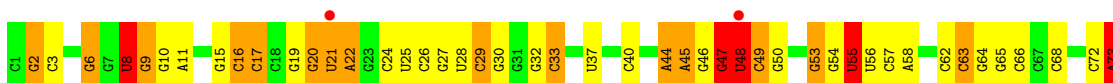
- Molecule 21: 30S ribosomal protein Thx



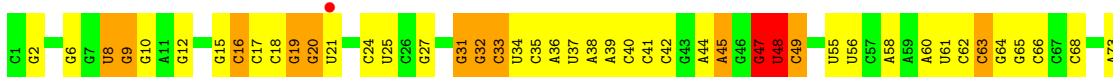
- Molecule 22: tRNA^{Lys}



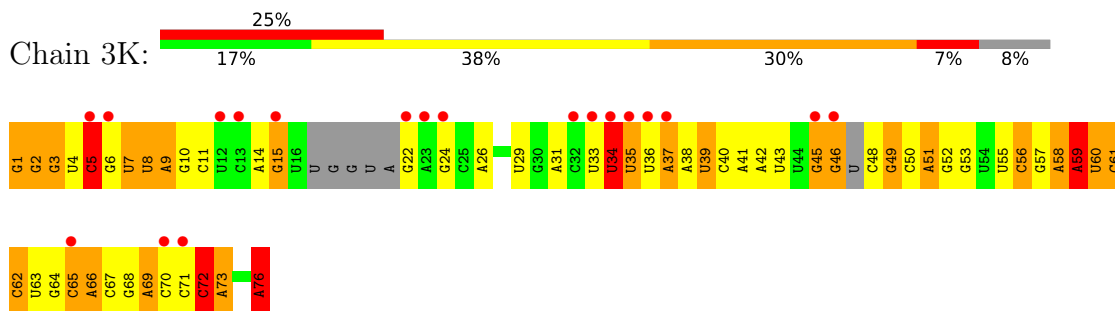
- Molecule 23: tRNA^{fMet}



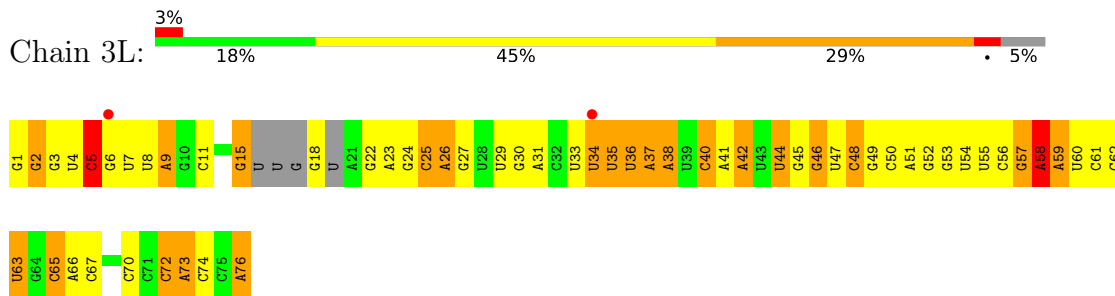
- Molecule 23: tRNA^{fMet}



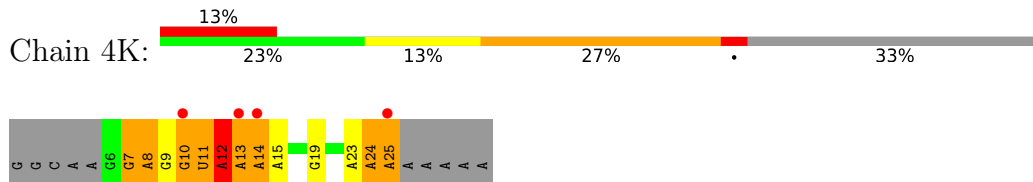
- Molecule 24: tRNA^{Lys}



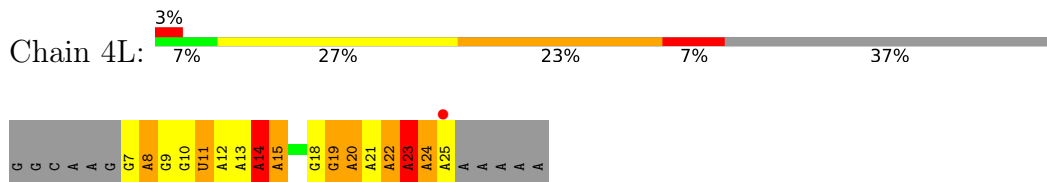
• Molecule 24: tRNA^{Lys}



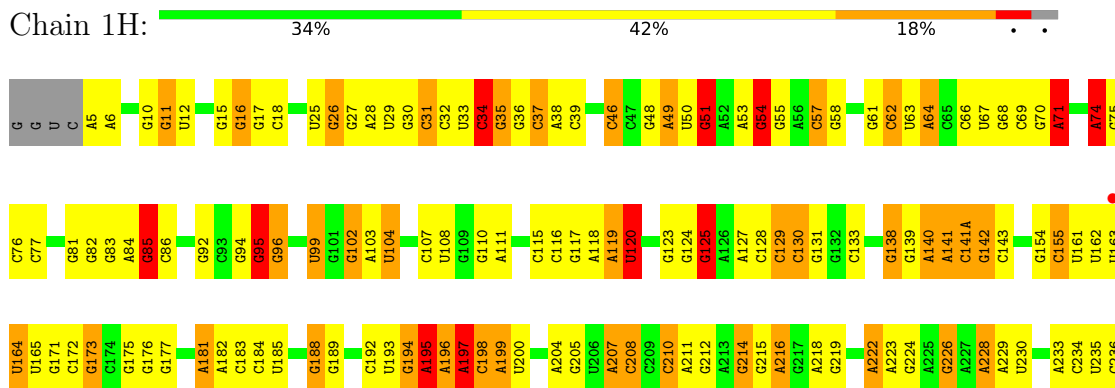
• Molecule 25: mRNA



• Molecule 25: mRNA

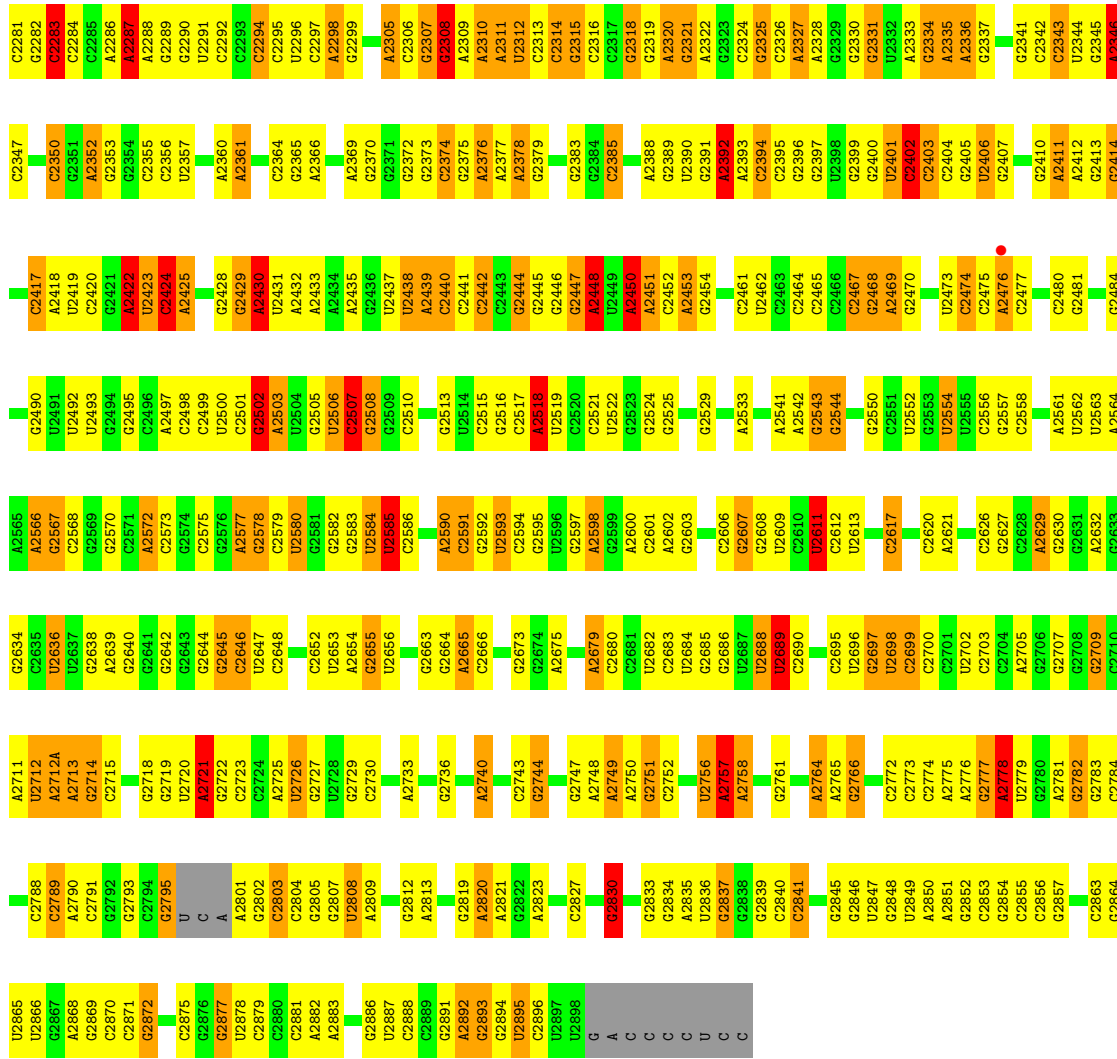


• Molecule 26: 23S ribosomal RNA

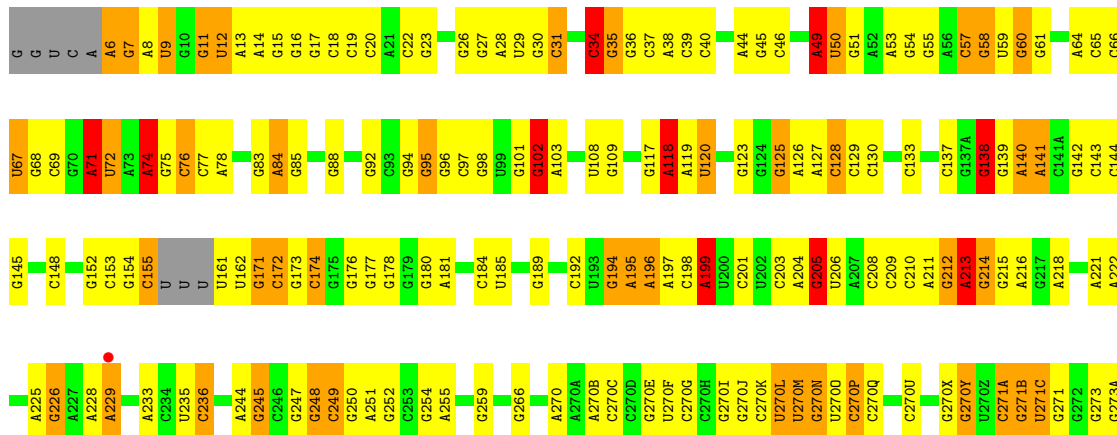


A1177	C237	C277	G360	G439	U511	C589	A654A	C698	G768	A835	G906	G974	G1106	A1177
C1178	C238	A278	G361	G442	G512	A890	G654D	A699	G769	G836	U907	C974A	G1107	C1178
C1180	U239	C280	G362	A443	A513	C591	C	G700	G770	C837	A910	G975	C1108	C1180
C1181	G240	C280	G363	A443	C516	G592	C	G702	C772	C838	A911	G978	C1109	C1181
A1182	A241	G281	A363A	C444	C517	G593	C	U703	U703	C839	A912	G979	A1050	A1182
G1183	G242	A282	G363B	C445	C518	U594	C	G704	A774	G843	U913	A980	G1051	G1183
G1186	U243	C286	G363C	C446	C519	G595	C	A705	G775	G844	C914	A981	C1052	G1186
U1187	A244	C287	G370	G447	U524	G596	A	A706	G776	G845	C915	A982	C1053	U1187
U1188	G245	C295	A371	U448	U525	G598	C	G712	A777	G846	A916	A983	G1054	U1188
A1189	G246	G295	G372	U449	U526	G599	C	G717	U779	U847	A917	A984	U1054	A1189
G1190	G248	G298	U373	G450	A526	G600	G654N	G717	G780	G848	A918	C986	G1055	G1190
G1191	C249	A299	A374	C451	A528	G601	G654O	A718	A781	A849	G921	C986	U1055	G1191
G1192	G250	A300	C376	C452	A529	G602	G654P	C719	A782	A850	G922	A990	G	G1192
G1193	A251	A300	C376	C455	A529	A603	G654Q	G720	A783	G853	C924	U990	U	G1193
G1194	G252	G301	U380	C456	G530	A604	G654R	C721	A784	G854	C925	U991	U	G1194
G1195	G258	U303	U381	C457	G531	G605	G654S	G722	G785	G855	C926	U992	G	G1195
C1196	G259	U304	G382	G458	A532	U606	G654T	G723	C786	G856	C927	C993	C	C1196
G1197	G260	U305	U383	U459	G533	U607	A654U	G724	U787	G857	G928	C994	U	G1197
U1198	G261	U306	U384	U460	U534	A608	A654V	U725	A788	U858	G929	C995	U	U1198
U1199	C264	G307	C385	A461	C535	A609	A655	G726	A789	U860	G931	C996	A	U1199
C1200	A265	G308	G386	C462	A536	U614	G655	G727	C790	U861	G932	C997	G	C1200
C1201	G266	G309	C386	U464	C537	G615	G656	G728	G791	A863	A933	U999	A	C1201
G1202	G267	G311	G389	U465	C546	G616	G657	G729	A792	A866	U937	A1000	A	G1202
A1204	U269	G312	A390	A466	A547	A616	G660	C730	A793	C867	G938	A1001	G	A1204
C1206	A270	G315	A391	G467	A548	G619	G661	C731	A794	C868	G939	G1002	C	C1206
C1208	C270C	G316	C392	G468	G549	G620	G662	C732	C795	U868	U940	G1003	A	C1208
G1209	U270F	G319	C392	G469	G556	G621	G663	G733	C796	G869	G941	C1004	G	G1209
U1211	C270G	G320	C392	G470	U557	G622	A621	G734	C797	A870	G942	C1005	C	U1211
G1212	C270H	G320	C392	G471	U558	G623	G665	G735	U800	U872	G942	C1006	C	G1212
A1213	G270I	G320	C392	G472	G558	G624	G666	C736	G801	A873	A945	C1007	A	A1213
C1217	C270J	G320	C392	G473	G559	G625	G667	C737	G802	U877	G946	C1008	U	C1217
G1218	G270K	G320	C392	G474	G560	G626	G668	C738	U803	A878	G947	C1009	C	G1218
G1219	U270L	G320	C392	G475	G561	U627	G669	G739	U804	U879	G948	C1010	U	G1219
A1220	C270M	G320	C392	U476	G562	G628	G670	G740	A805	G880	G949	U1011	U	A1220
C1221	C270N	G320	C392	A479	G563	G629	G671	G741	G806	G881	G950	U1012	U	C1221
C1222	G270O	G320	C392	A480	G564	G630	G672	G742	C906	G882	G951	U1013	U	C1222
G1223	C270P	G320	C392	A481	G565	G631	G673	G743	U807	G	C952	U1014	A	G1223
G1224	C270Q	G320	C392	A482	U566	A632	G674	G744	U811	C	C953	U1015	A	G1224
C1225	G270R	G320	C392	A483	A567	G634	A675	G745	U812	C	C954	A1020	A	C1225
G1229A	C270S	G320	C392	A484	U568	G635	A676	G746	C812	C	C955	A1021	G	G1229A
C1230	G270T	G320	C392	C484	U569	G636	G677	G747	C812	A	C955	A1022	A	C1230
G1231	G270Y	G320	C392	G491	G570	G636	C678	G748	C812	C	U958	U1023	U	G1231
G1235	G271B	G340	C420	G492	A571	A637	C679	C749	C815	C	U959	G1024	U	G1235
A1237	U271C	G342	U421	G493	A572	G638	G682	A750	C816	C	A959	G1025	G	A1237
G1238	G271	C343	U422	G494	C574	U639	G683	A751	C817	A	U960	C960	U	G1238
G1239	G272	C344	A423	G499	A575	G640	G684	A752	G818	G	A961	A1028	C	G1239
U1240	U273E	C346	A424	G500	U576	A643	G685	C755	G823	C893	U962	A1029	A	U1240
A1241	C273F	C347	U428	A501	G577	A644	G686	C756	U826	A	C964	U1029	A	A1241
G1242	G274	G352	C433	A502	A578	A645	G687	C757	U827	C897	C965	U1030	U	G1242
A1243	G275	C359	U434	A503	G579	A646	U688	C758	U828	C898	U966	U1031	U	A1243
G1243	A276	C359	C435	A504	C580	A647	U689	C759	U829	C899	C967	G1032	G	G1243
				A505	C581	G648	G690	G760	A829	A900	C968	U1033	U	
				A507	G582	G649	G691	A761	G830	A901	U969	U1034	U	
				G508	G583	G650	C892	U762	G831	A902	G970	C1035	C	
				C509	C587	G651	C893	A764	G832	A903	C971	G1036	A	
				C510	U588	A654	C697	G765	C834	C903	A973	A1045	U	

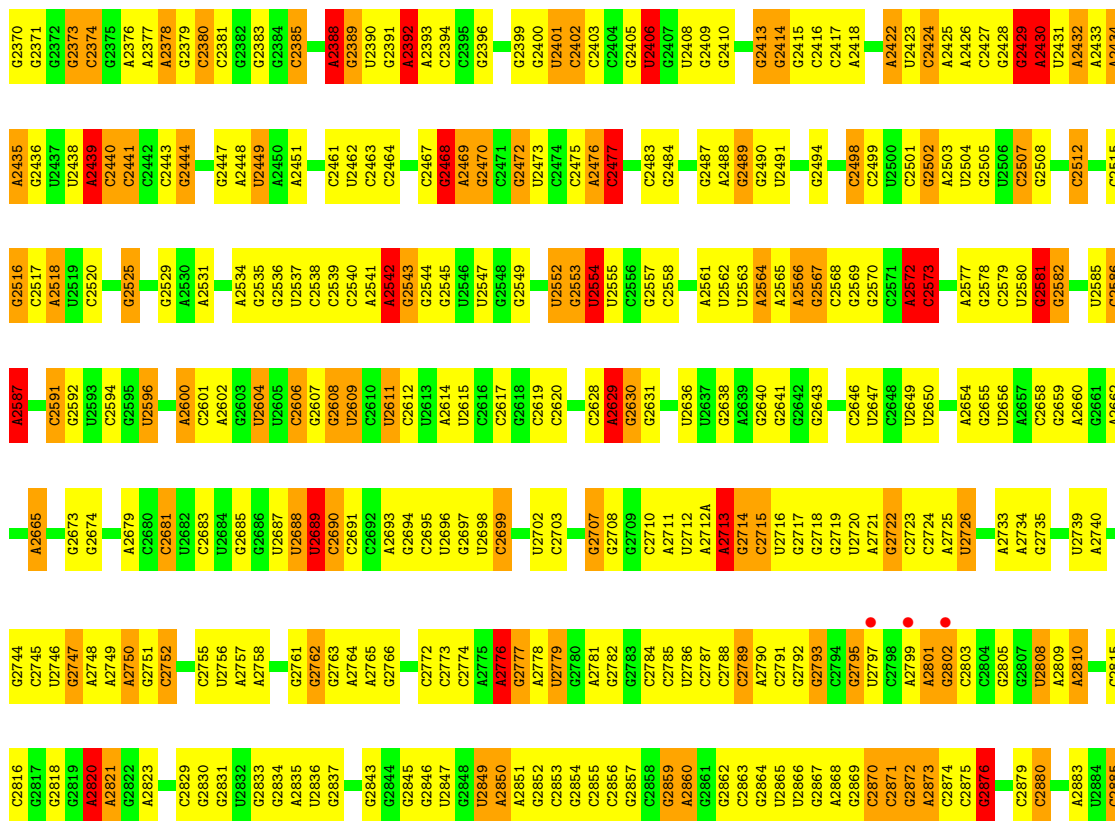
U2197	G2061	U1991	U1915	G1826	A1596	C1531	G1455	C1387	U1313	G1244
A2198	A2062	G1992	A1916	C1827	A1597	C1532	G1456	G1388	C1314	G1245
U2208	C2063	G1993	G1919	G1828	C1598	C1533	C1458	G1389	A1246	A1246
C2209	C2064	C1994	A1920	A1829	C1599	G1534	G1459	U1390	G1318	A1247
G2210	C2065	U1995	C1920	C1830	G1600	U1535	A1460	U1391	G1319	G1248
A2135	C2066	C1996	U1926	G1831	G1601	G1536	G1461	U1249	G1320	U1249
C2136	G2067	C1999	U1926	C1832	U1602	C1537	C1464	G1393	A1323	G1250
G2068	U2068	C1999	C1766	U1833	A1603	G1538	C1464	U1394	A1322	A1253
G2069	G2000	G1929	U1767	A1668	A1604	G1539	C1467	A1395	U1323	A1253
A2001	A2001	G1930	C1767	A1669	G1604	G1540	C1468	U1396	G1324	A1254
A2071	G2004	U1931	U1768	C1836	G1606	U1541	C1469	U1255	U1255	G1256
U2074	A2005	A1932	G1770	C1837	C1607	A1542	G1470	C1328	G1327	G1257
U2075	C2006	G1933	U1772	G1674	A1608	C1544	A1471	U1329	C1328	C1286
C2081	G2009	A1936	A1773	A1676	A1610	A1545	G1475	C1330	U1329	G1289
A2082	A1937	A1937	U1775	G1677	G1613	A1546	G1475	A1331	G1290	G1290
G2083	A1938	A1938	G1776	G1678	A1614	A1547	G1478	G1332	G1332	G1260
C2084	U1940	U1939	U1777	C1681	C1615	C1548	G1479	G1337	G1337	C1262
C2085	C1941	C1941	U1778	G1682	A1616	C1549	G1479	G1338	G1338	U1263
G2087	C1942	C1942	U1778	C1683	C1617	C1550	G1483	G1339	U1340	G1264
U2092	G1945	G1945	C1782	C1684	A1618	C1551	G1484	U1341	U1341	A1268
G2093	U1946	U1946	A1783	C1685	G1620	G1552	G1485	G1344	G1344	G1271
G2094	G1949	G1949	A1784	C1686	U1621	G1553	G1487	C1345	G1345	U1272
U2095	A1859	A1859	U1785	U1688	G1622	C1556	G1488	C1346	U1272	U1273
U2096	G1960	G1960	A1786	A1889	G1623	C1557	U1489	G1346	A1274	A1274
C2097	G1961	G1961	U1786	G1688	G1624	C1558	U1490	G1347	U1273	U1274
U2098	A1952	A1952	C1788	C1689	G1625	C1559	G1491	G1348	A1274	A1274
U2099	G1963	G1963	U1789	G1690	G1626	C1560	G1492	A1349	A1349	A1278
G2100	U1964	U1964	A1789	G1691	C1630A	C1561	G1494	U1357	U1357	A1284
G2101	U1965	U1965	A1791	G1692	A1631	C1562	U1495	G1358	G1358	G1285
U2102	U1966	U1966	C1792	A1698	G1632	A1566	A1496	A1359	U1286	G1285
C2103	A1872	A1872	C1793	G1699	G1633	A1567	U1497	A1360	A1286	A1286
G2104	G1878	G1878	A1700	A1700	A1634	G1568	C1428	U1287	A1287	A1287
G2105	G1883	G1883	C1795	G1703	G1635	A1569	C1506	G1429	U1288	U1288
G2106	G1883	G1883	U1796	G1704	C1636	A1570	A1507	C1289	C1289	C1289
C2107	C1886	C1886	U1798	G1705	A1637	A1571	A1508	G1364	G1364	C1290
C2108	C1887	C1887	C1799	U1706	C1638	A1572	A1509	A1365	A1365	C1291
U2109	G1888	G1888	C1800	U1709	C1639	C1573	A1510	G1366	A1366	C1291
G2110	A1889	A1889	G1801	U1710	C1640	C1574	A1511	G1367	U1292	U1292
C2111	A1890	A1890	A1802	C1710	A1641	C1575	G1512	G1368	G1368	U1293
U2113	A1971	A1971	U1805	G1726	G1642	U1576	C1513	G1369	U1294	U1294
A2114	A1972	A1972	C1806	U1727	G1643	C1577	U1514	G1437	G1370	C1295
G2115	G1973	G1973	G1807	U1728	C1644	U1578	C1515	U1438	U1372	G1296
G2116	G1974	G1974	A1807	G1729	G1645	A1579	C1516	A1373	A1373	C1297
A2117	G1975	G1975	U1811	A1729	C1646	A1580	U1516	G1440	G1374	U1300
U2118	G1980	G1980	G1814	U1730	G1649	A1581	G1517	G1441	C1375	A1301
A2119	A1900	A1900	G1815	G1731	G1650	A1582	G1519	G1442	C1376	A1302
G2120	C1901	C1901	A1816	A1732	G1651	A1583	U1520	G1443	G1377	G1303
G2121	C1902	C1902	G1816	A1750	G1652	A1584	U1521	G1444	A1378	C1304
U2122	G1903	G1903	C1816	G1751	A1652	A1585	G1522	A1444A	A1379	C1305
A2123	G1904	G1904	A1819	C1752	A1653	A1586	G1523	G1448	G1380	C1306
G2124	A1985	A1985	U1820	C1752	A1654	A1587	G1524	G1449	A1381	A1307
G2125	A1986	A1986	A1821	G1756	C1656	A1588	U1525	A1459	G1382	A1308
A2058	G1989	G1989	U1757	U1758	C1657	A1589	A1528	G1527	C1383	G1309
A2059	C1990	C1990	G1758	G1758	C1658	A1590	A1529	A1384	A1384	G1310
A2060	C1914	C1914	A1825	G1758	C1659	A1591	G1530	A1453	G1311	U1312



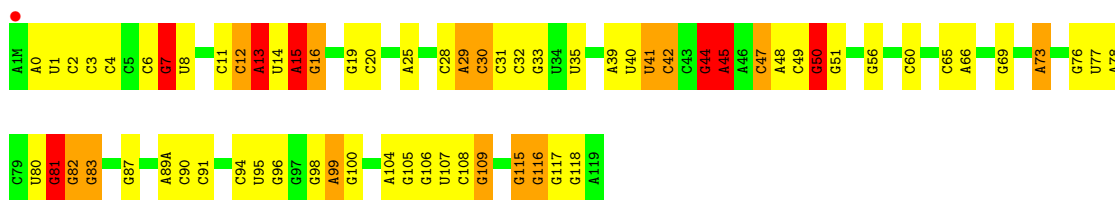
● Molecule 26: 23S ribosomal RNA



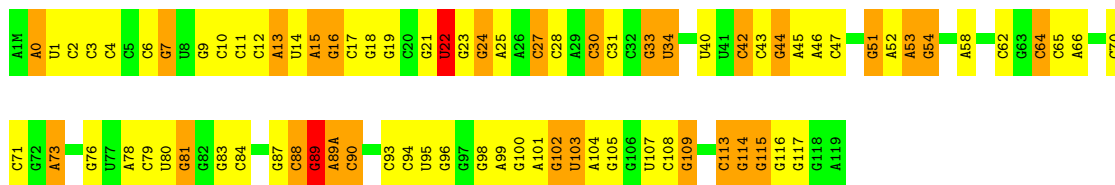
A1322	A1323	A1391	A1392	A1393	A1394	A1395	A1396	A1397	A1398	A1399	A1400	A1403	A1404	A1405	A1406	A1407	A1408	A1409	A1410	A1411	A1412	A1413	A1416	A1417	A1418	A1419	A1420	A1421	A1422	A1425	A1426	A1427	A1428	A1429	A1430	A1431	A1432	A1433	A1434	A1435	A1436	A1437	A1441	A1442	A1443	A1444	A1444A	A1445	A1448	A1449	A1449A	A1450	A1451	A1452	A1454												
G1455	G1458	G1459	G1460	G1461	G1462	G1463	G1464	G1467	G1471	G1474	G1475	G1476	G1477	G1478	G1479	G1483	G1484	G1485	G1486	G1487	G1488	G1489	G1490	G1491	G1492	G1493	G1494	G1495	G1496	G1500	G1503	G1504	G1505	G1506	G1507	G1508	G1509	G1510	G1511	G1512	G1515	G1516	G1517	G1518	G1519	G1520	G1521	G1522	G1525	G1526																	
G1527	G1528	G1529	G1530	G1533	G1534	G1535	G1536	G1537	G1542	G1543	G1544	G1547	G1548	G1549	G1550	G1554	G1555	G1556	G1557	G1558	G1559	G1560	G1564	G1565	G1566	G1567	G1568	G1569	G1570	G1571	G1572	G1573	G1574	G1575	G1576	G1577	G1578	G1581	G1582	G1583	G1585	G1586	G1587	G1588	G1589	G1592	G1593	G1594	G1595	G1596	G1597	G1598	G1599	G1600	G1601	G1602	G1605										
G1606	G1607	G1608	G1609	G1610	G1614	G1615	G1616	G1619	G1630A	G1633	G1636	G1637	G1638	G1639	G1640	G1641	G1642	G1643	G1644	G1645	G1646	G1647	G1648	G1651	G1652	G1653	G1654	G1655	G1656	G1657	G1658	G1659	G1660	G1661	G1665	G1666	G1667	G1668	G1669	G1670	G1671	G1672	G1673	G1674	G1675	G1676	G1677	G1678	G1679	G1680	G1681	G1682															
G1683	G1684	G1688	G1689	G1693	G1694	G1695	G1698	G1699	G1700	G1701	G1705	G1706	G1707	G1725	G1726	G1727	G1728	G1729	G1730	G1731	G1732	G1733	G1742	G1743	G1750	G1751	G1752	G1753	G1754	G1755	G1756	G1757	G1758	G1759	G1760	G1762	G1763	G1764	G1771	G1772	G1773	G1774	G1775	G1776	G1777	G1778	G1779	G1780	G1781	G1782																	
A1783	A1784	A1785	A1786	A1787	A1788	A1789	A1790	A1791	A1792	A1793	A1794	A1795	A1796	A1797	A1798	A1799	A1800	A1801	A1802	A1803	A1804	A1805	A1806	A1810	A1811	A1812	A1813	A1814	A1815	A1816	A1817	A1818	A1819	A1820	A1821	A1822	A1825	A1826	A1827	A1828	A1829	A1830	A1831	A1832	A1833	A1834	A1835	A1836	A1837	A1838	A1839	A1840	A1841	A1842	A1847	A1848	A1849	A1850									
A1854	G1857	G1858	G1859	G1860	G1864	G1878	G1879	G1885	G1886	G1887	G1888	G1889	G1890	G1894	G1899	G1902	G1903	G1904	G1905	G1906	G1907	G1908	G1909	A1912	A1913	A1914	A1915	A1916	A1917	A1918	A1919	A1922	G1925	G1926	G1927	G1928	G1929	G1930	A1936	A1937	A1938	A1939	G1942	G1943	G1944	G1945	G1946																				
G1947	G1948	G1949	G1950	G1951	G1952	G1953	G1954	G1955	G1961	G1962	G1963	G1966	G1970	G1971	G1972	G1973	G1974	G1980	G1981	G1982	G1983	G1984	G1985	G1986	G1987	G1988	G1989	G1990	G1991	G1992	G1993	G2000	G2001	G2002	G2006	G2009	G2010	G2011	G2012	G2013	G2014	G2015	G2016	G2017	G2018	G2019	G2023	G2027	G2028																		
G2029	A2030	A2031	A2032	A2033	C2036	G2037	G2038	G2039	G2040	G2042	G2043	G2049	G2052	G2053	A2054	G2055	G2056	A2057	A2058	A2059	A2060	G2061	G2062	G2063	G2064	G2065	G2066	G2067	G2068	G2069	G2070	G2071	G2074	G2075	G2076	G2077	G2078	G2079	G2080	G2081	G2082	G2083	G2084	G2085	G2086	G2087	G2090	G2095	G2096	G2099	G2100																
G2101	G2102	G2103	G2104	G2105	G2106	G2107	G2108	G2109	G2110	G2111	G2113	G2114	G2115	G2116	G2117	G2118	G2119	G2120	G2121	G2122	G2123	G2124	G2125	G2126	G2127	G2128	G2129	G2130	G2131	G2132	G2133	G2134	G2135	G2136	G2137	G2138	G2139	G2140	G2141	G2142	G2143	G2144	G2145	G2146	G2147	G2148	G2149	G2150	G2151	G2152	G2153	G2154	G2155	G2156	G2157	G2158	G2159	G2160									
G2161	G2162	G2163	G2164	G2165	G2166	G2167	G2168	A	A2170	A2171	A2172	A2173	A2174	A2175	A2176	G2180	G2185	G2186	G2187	G2188	G2189	G2190	G2191	G2192	G2196	G2197	G2198	G2199	G2200	G2201	G2202	G2203	G2204	G2205	G2206	G2207	G2208	G2209	G2210	G2211	G2212	G2213	G2214	G2215	G2216	G2217	G2218	G2219	G2220	G2221	G2222	G2223	G2224	G2225	G2226	G2227	G2228	G2229	G2230	G2231	G2232	G2233	G2234	G2235	G2238	G2239	G2240
C2240	C2244	U2244	U2245	U2246	U2247	U2248	U2249	U2250	U2251	U2252	U2253	U2256	U2257	U2258	U2259	U2260	U2261	U2262	U2263	U2267	U2268	U2269	U2270	U2271	U2272	U2273	U2274	U2275	U2276	U2277	U2278	U2279	U2280	U2281	U2282	U2283	U2286	U2287	U2288	U2289	U2290	U2291	U2292	U2293	U2294	U2295	U2296	U2297	U2298	U2299	U2300	U2301	U2304	U2305	U2306	U2307											
G2307	G2308	A2309	A2310	A2311	A2312	C2313	G2314	G2315	G2316	G2317	G2318	G2319	A2320	G2321	G2324	G2325	G2326	G2327	G2328	G2329	G2330	G2331	G2332	G2333	G2334	G2335	G2336	G2337	G2338	G2339	G2340	G2341	G2342	G2343	G2344	G2345	G2346	G2347	G2350	G2351	G2352	G2353	G2354	G2355	G2356	G2357	G2358	G2359	A2360	G2361	G2362	G2363	G2364	G2367	G2368	A2369											



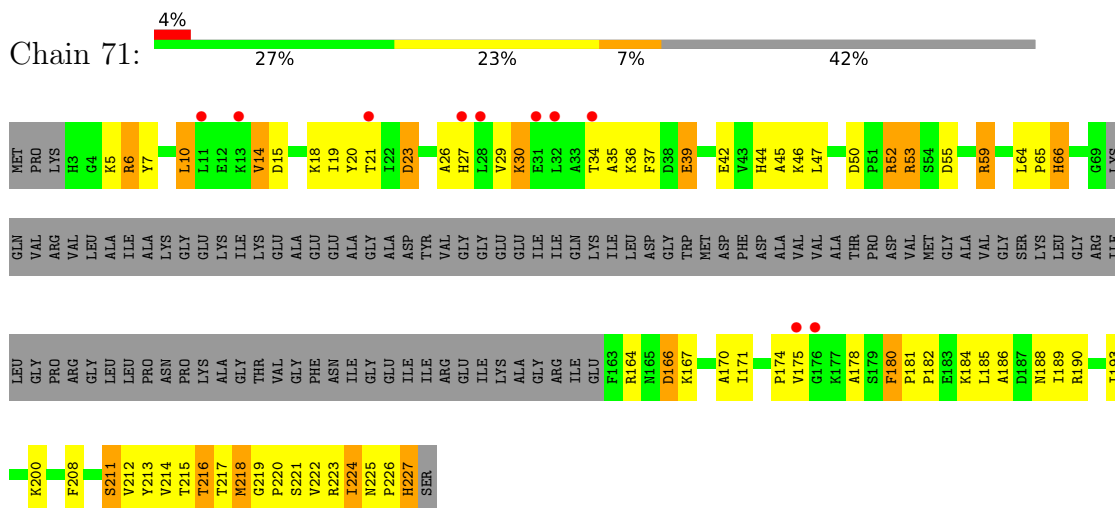
• Molecule 27: 5S ribosomal RNA



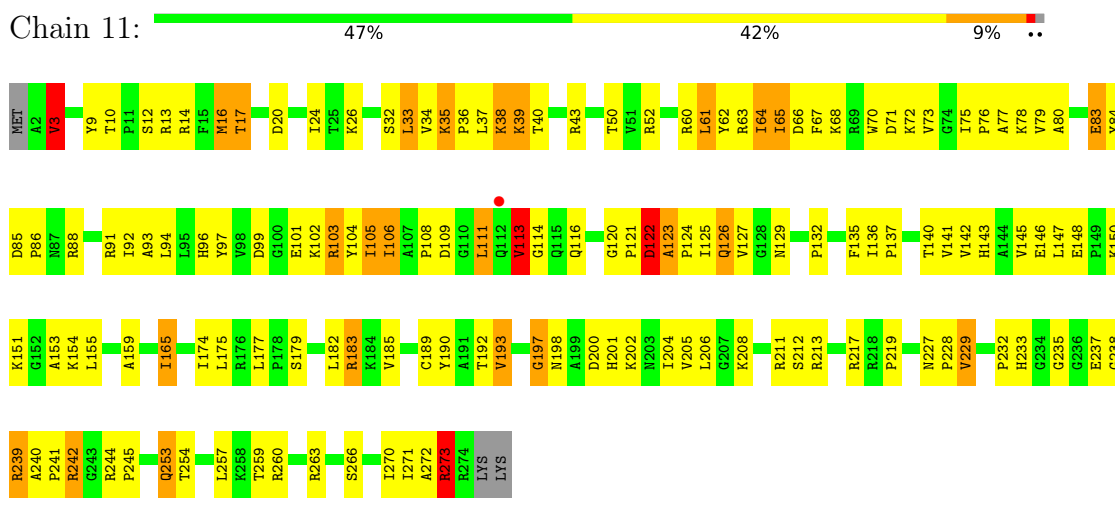
• Molecule 27: 5S ribosomal RNA



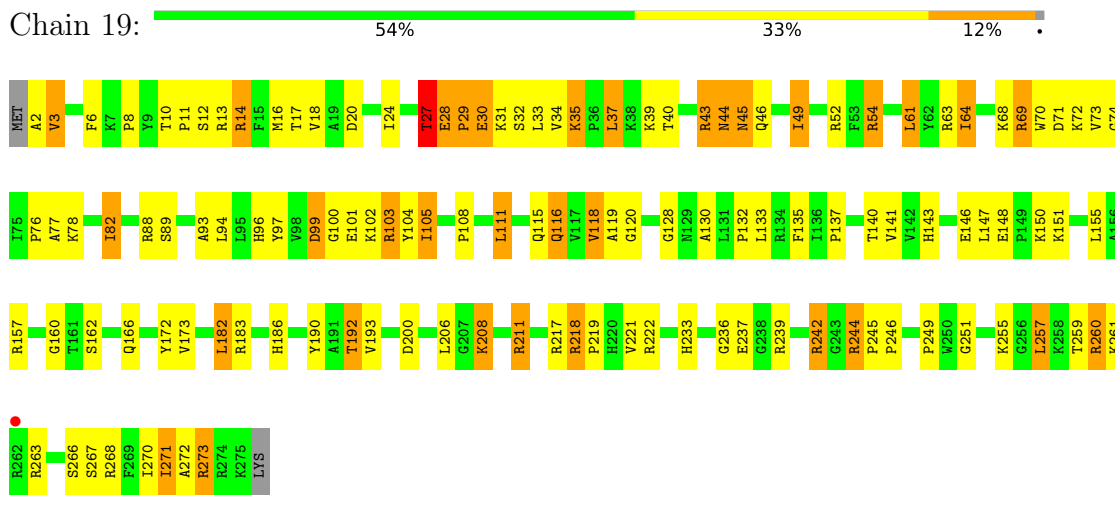
• Molecule 28: 50S ribosomal protein L1



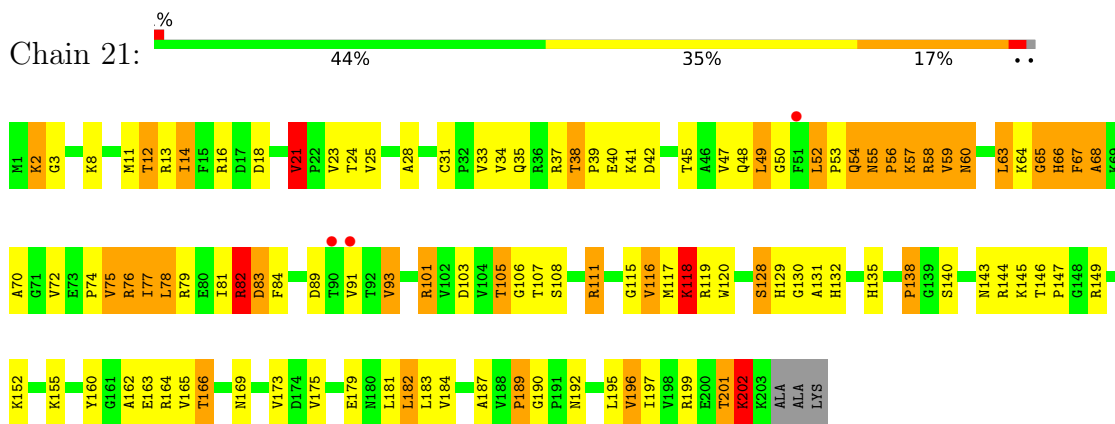
• Molecule 29: 50S ribosomal protein L2



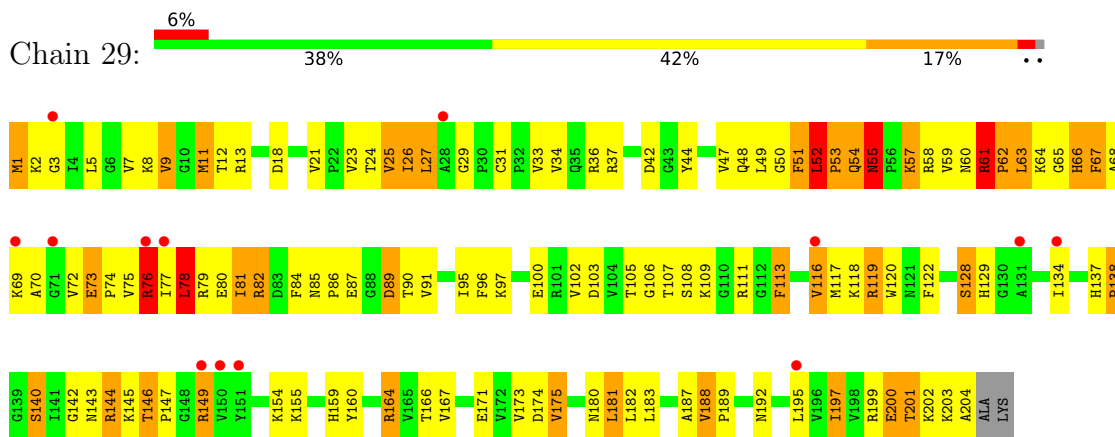
• Molecule 29: 50S ribosomal protein L2



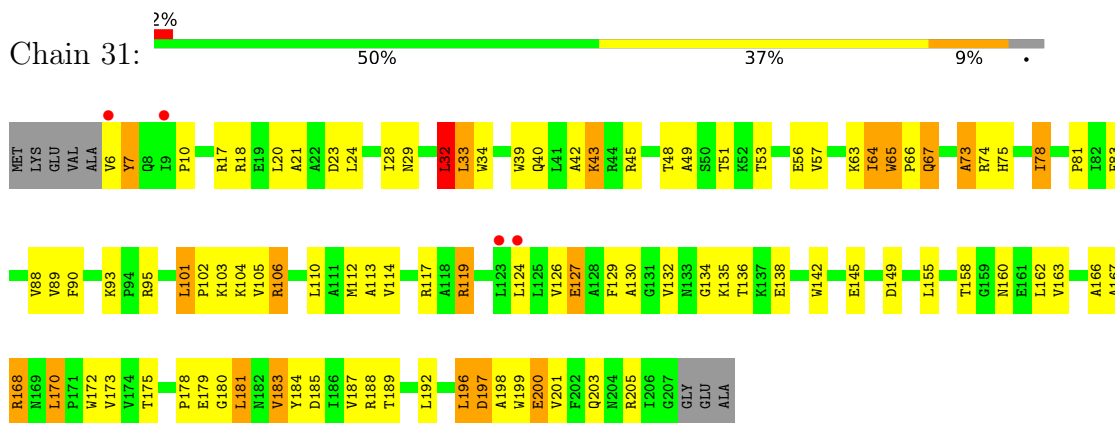
• Molecule 30: 50S ribosomal protein L3



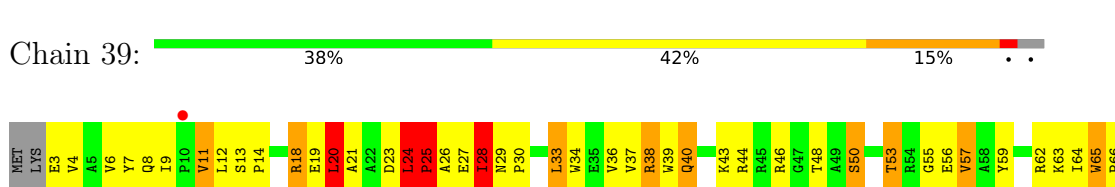
• Molecule 30: 50S ribosomal protein L3

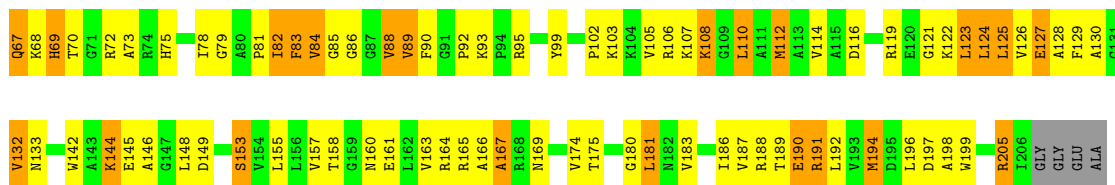


• Molecule 31: 50S ribosomal protein L4

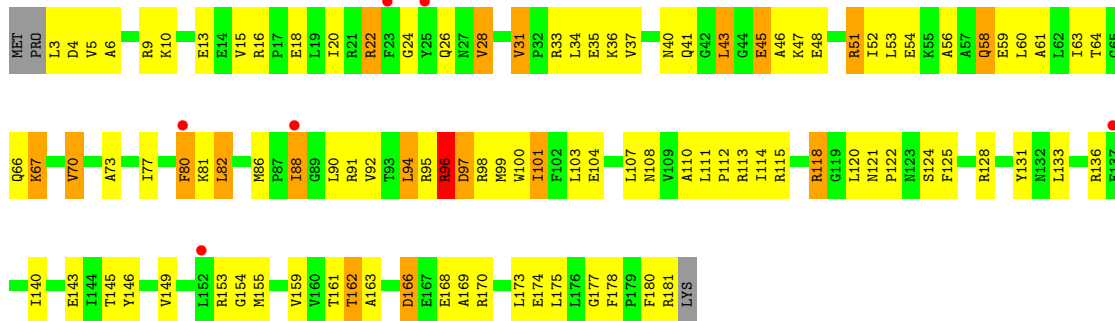
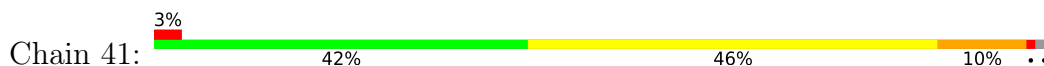


• Molecule 31: 50S ribosomal protein L4

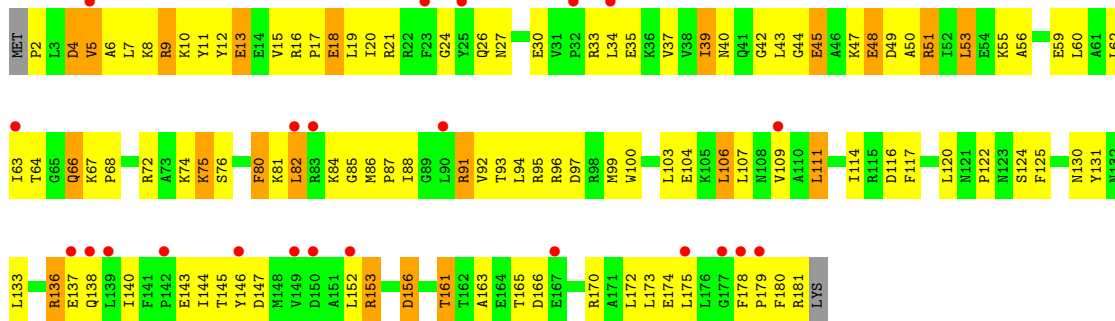




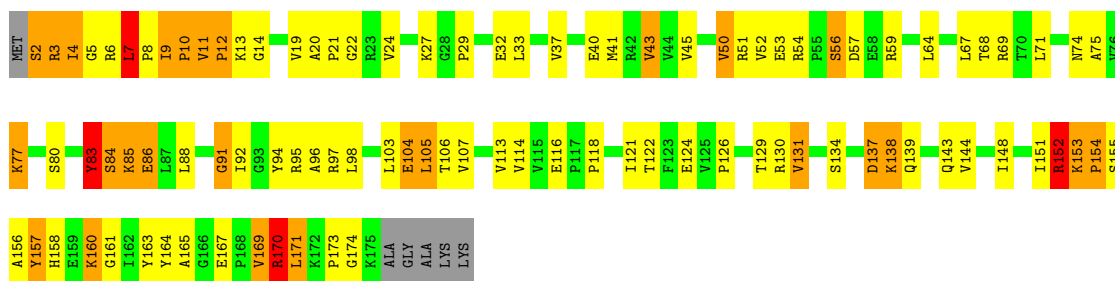
• Molecule 32: 50S ribosomal protein L5



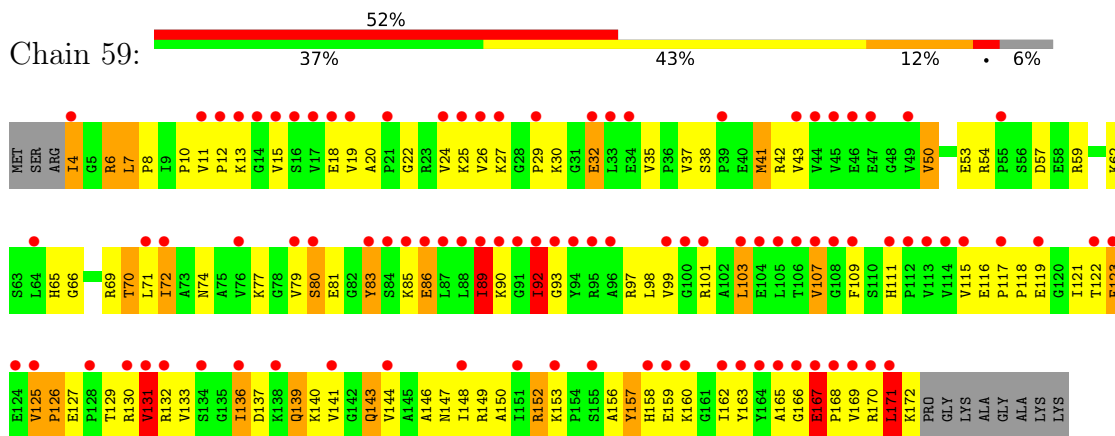
• Molecule 32: 50S ribosomal protein L5



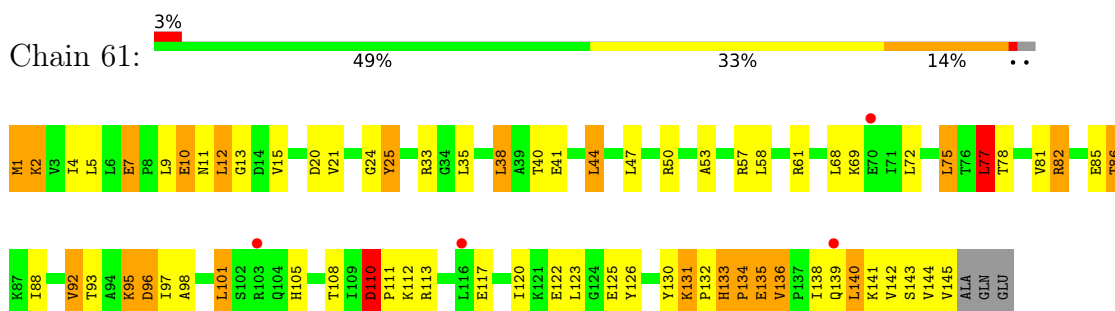
• Molecule 33: 50S ribosomal protein L6



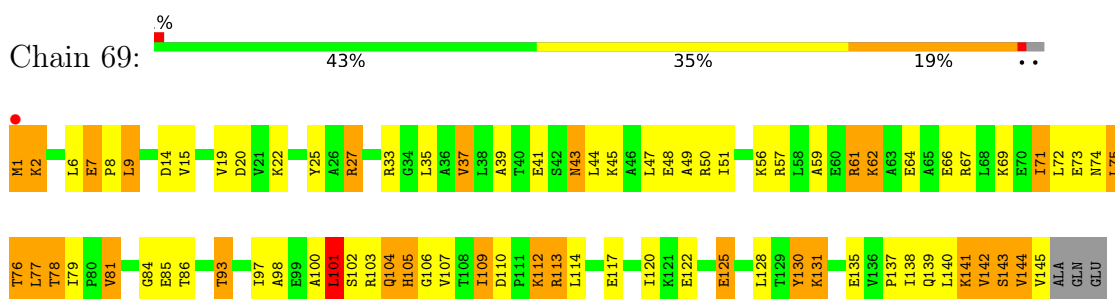
• Molecule 33: 50S ribosomal protein L6



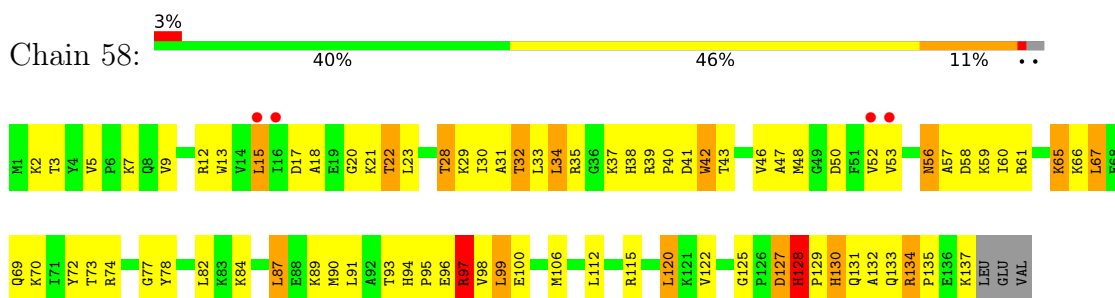
• Molecule 34: 50S ribosomal protein L9



• Molecule 34: 50S ribosomal protein L9

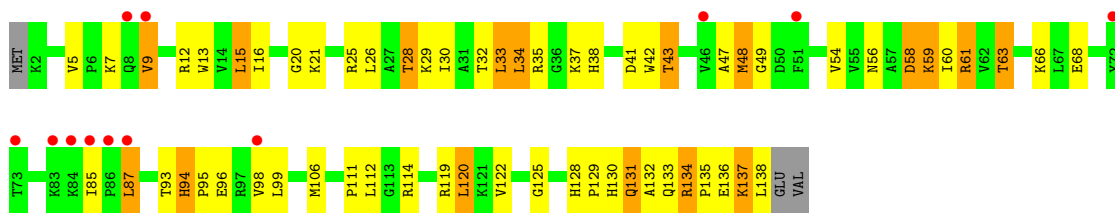


• Molecule 35: 50S ribosomal protein L13

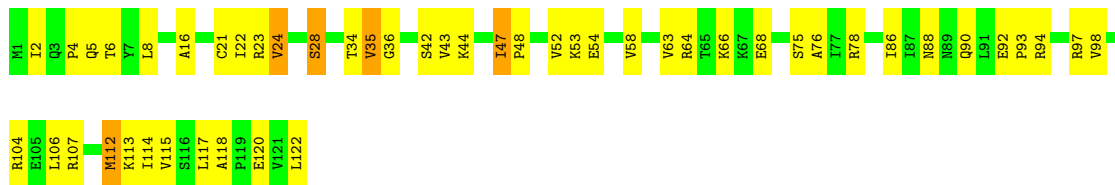


• Molecule 35: 50S ribosomal protein L13

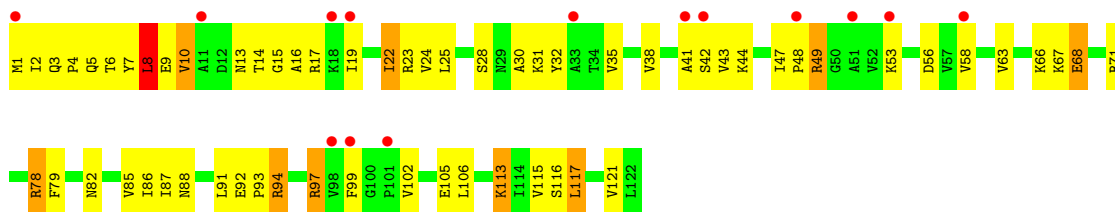




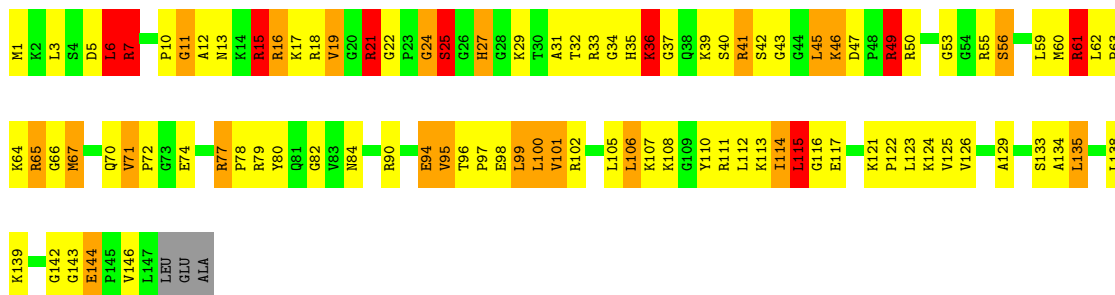
• Molecule 36: 50S ribosomal protein L14



• Molecule 36: 50S ribosomal protein L14

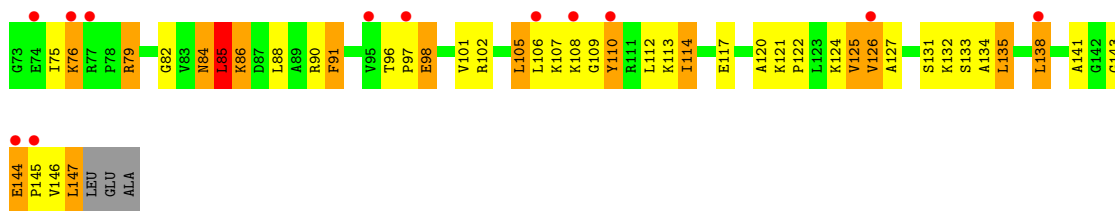


• Molecule 37: 50S ribosomal protein L15

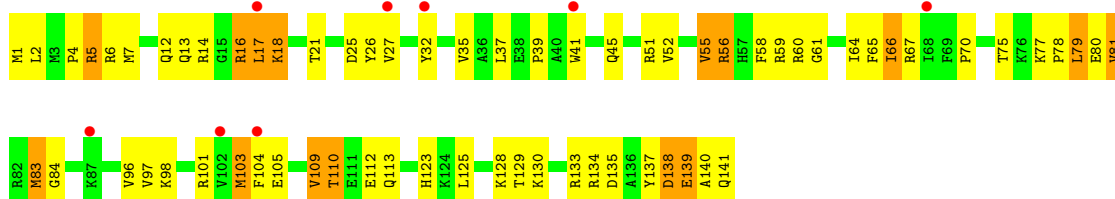


• Molecule 37: 50S ribosomal protein L15

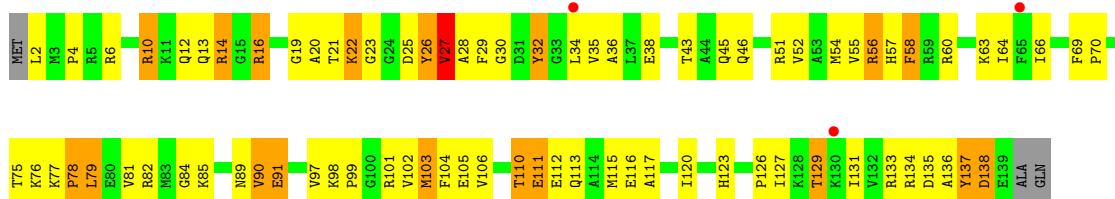




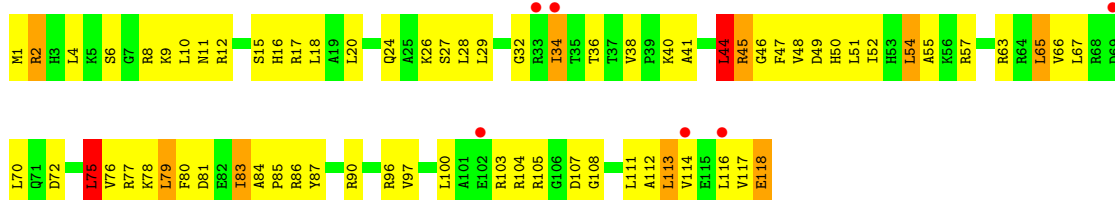
- Molecule 38: 50S ribosomal protein L16



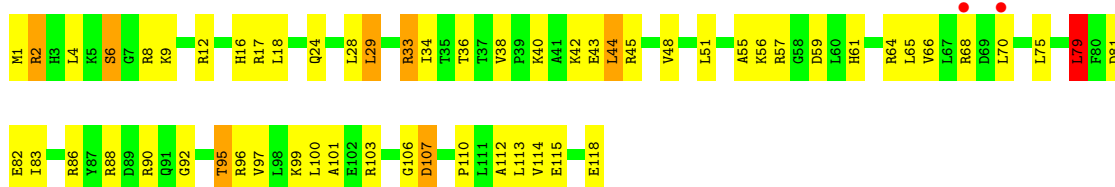
- Molecule 38: 50S ribosomal protein L16



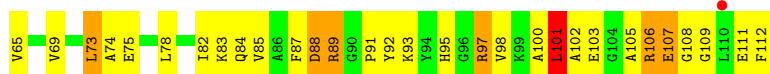
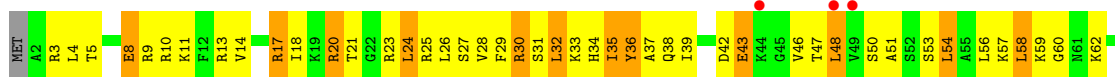
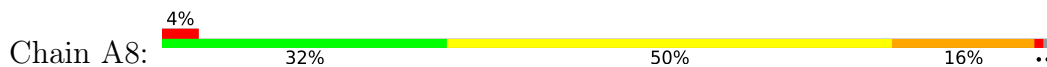
- Molecule 39: 50S ribosomal protein L17



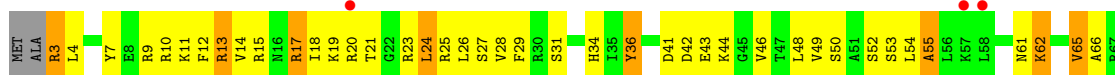
- Molecule 39: 50S ribosomal protein L17



- Molecule 40: 50S ribosomal protein L18



- Molecule 40: 50S ribosomal protein L18

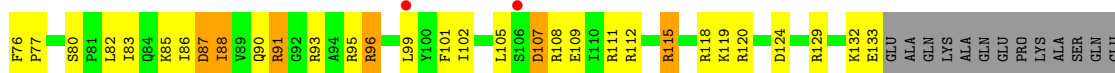


- Molecule 41: 50S ribosomal protein L19



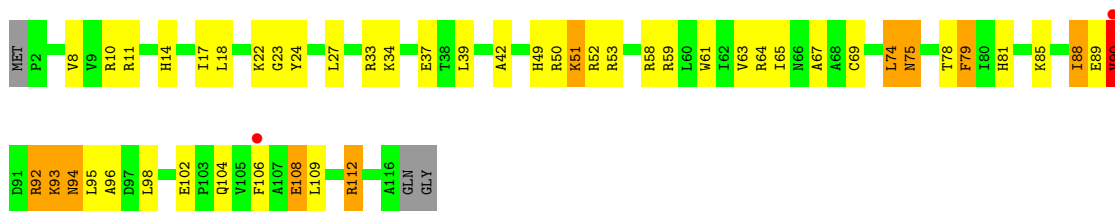
GLU

- Molecule 41: 50S ribosomal protein L19

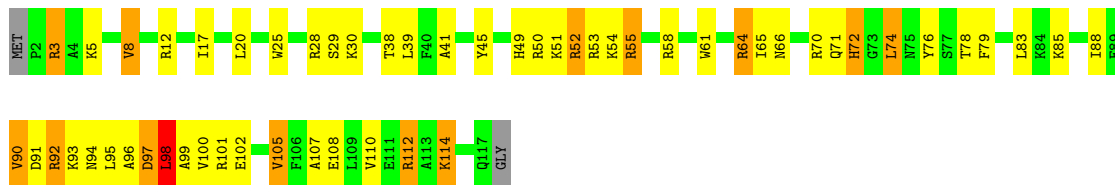


- Molecule 42: 50S ribosomal protein L20

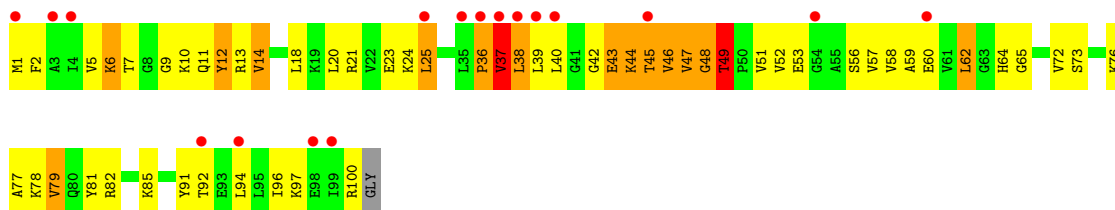




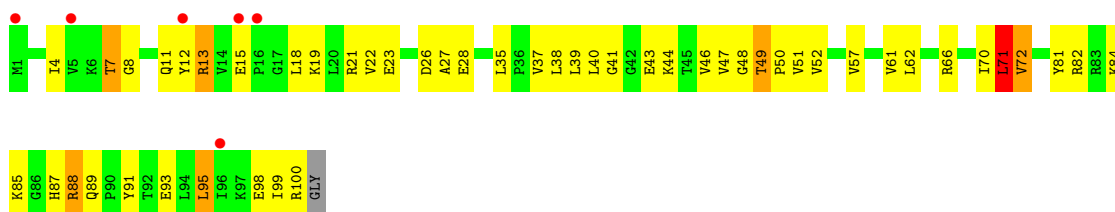
• Molecule 42: 50S ribosomal protein L20



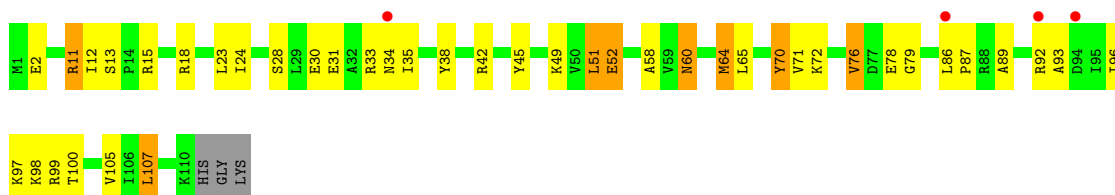
• Molecule 43: 50S ribosomal protein L21



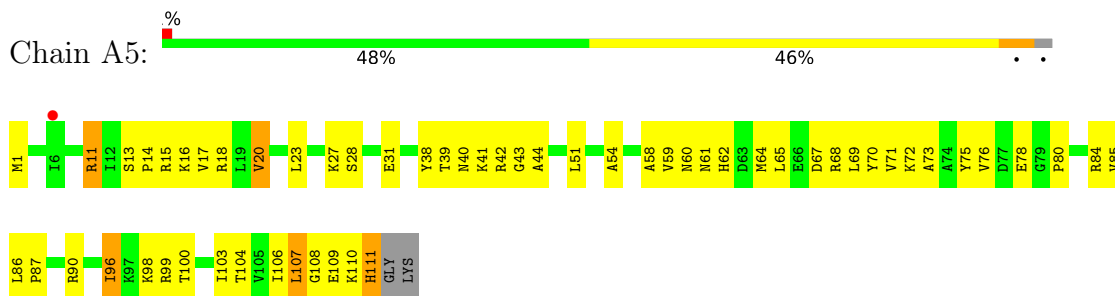
• Molecule 43: 50S ribosomal protein L21



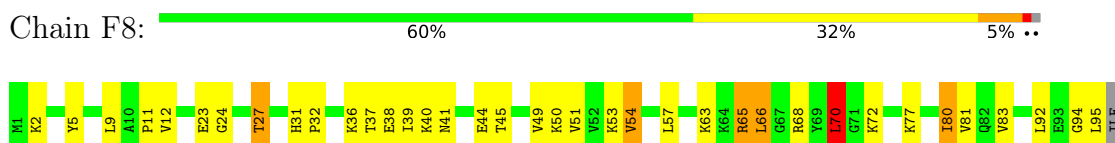
• Molecule 44: 50S ribosomal protein L22



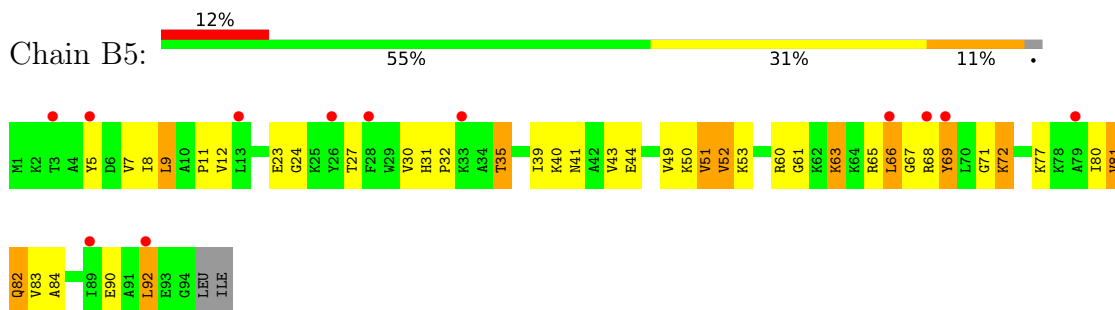
- Molecule 44: 50S ribosomal protein L22



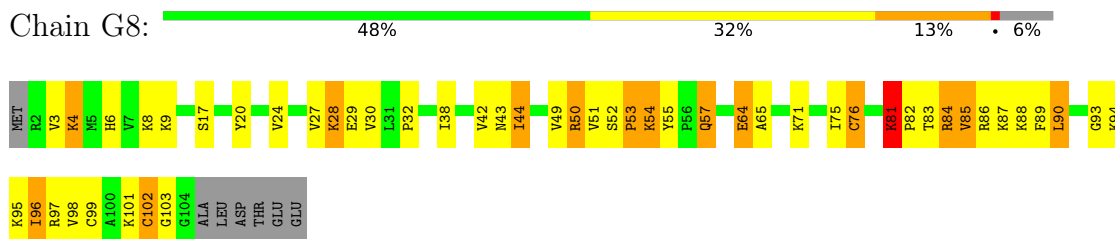
- Molecule 45: 50S ribosomal protein L23



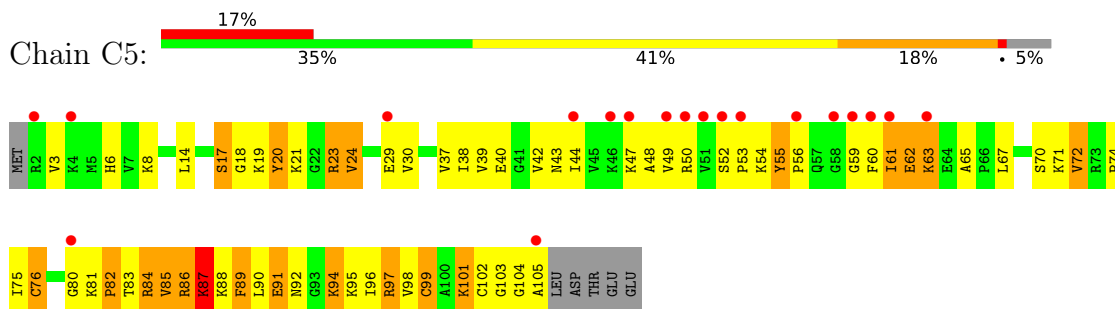
- Molecule 45: 50S ribosomal protein L23



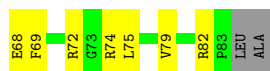
- Molecule 46: 50S ribosomal protein L24



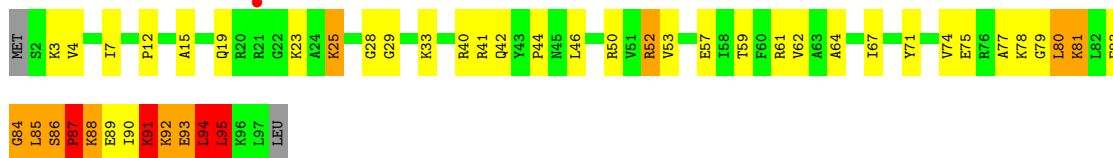
- Molecule 46: 50S ribosomal protein L24



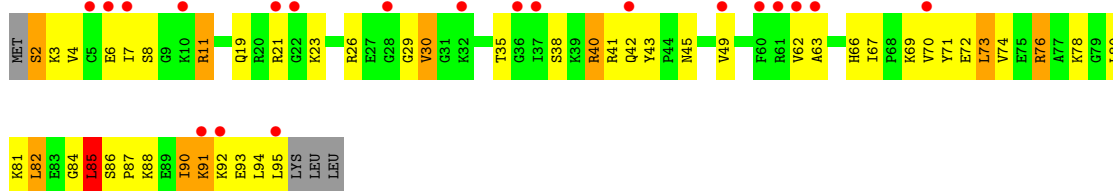
- Molecule 47: 50S ribosomal protein L25



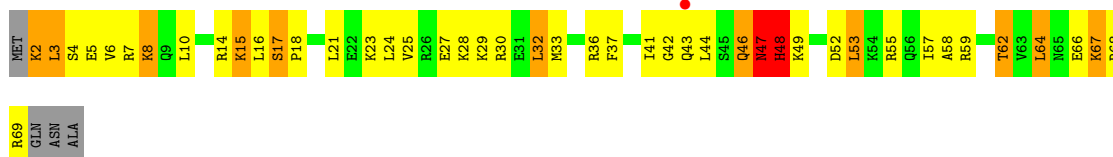
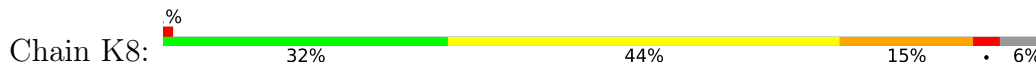
- Molecule 49: 50S ribosomal protein L28



- Molecule 49: 50S ribosomal protein L28



- Molecule 50: 50S ribosomal protein L29



- Molecule 50: 50S ribosomal protein L29



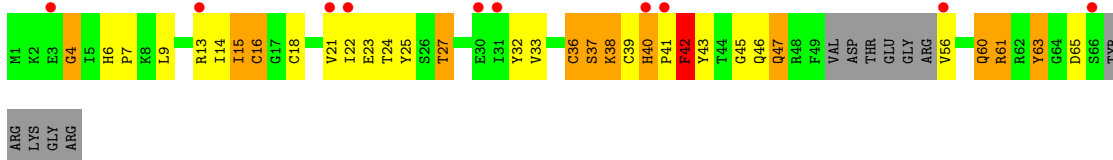
- Molecule 51: 50S ribosomal protein L30



- Molecule 51: 50S ribosomal protein L30



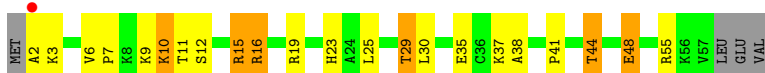
- Molecule 52: 50S ribosomal protein L31



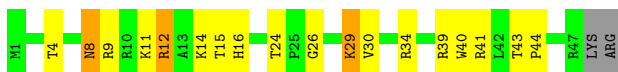
- Molecule 53: 50S ribosomal protein L32



- Molecule 53: 50S ribosomal protein L32



- Molecule 54: 50S ribosomal protein L34



- Molecule 54: 50S ribosomal protein L34

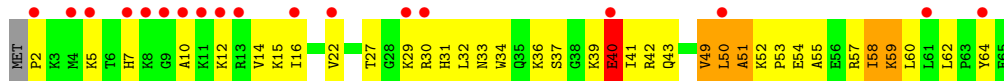
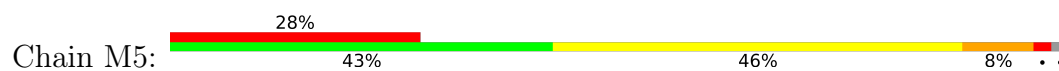


- Molecule 55: 50S ribosomal protein L35

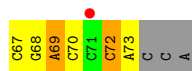
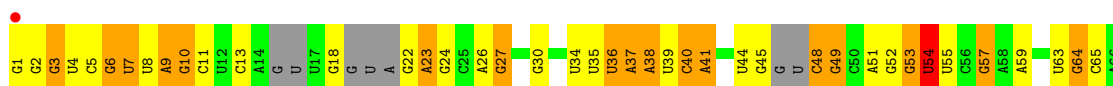
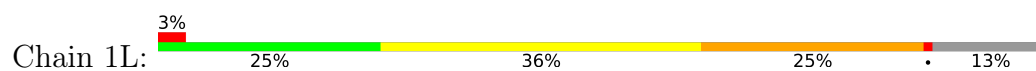




- Molecule 55: 50S ribosomal protein L35



- Molecule 56: tRNALys



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.15Å 448.16Å 617.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	154.45 – 3.13 161.54 – 3.13	Depositor EDS
% Data completeness (in resolution range)	100.0 (154.45-3.13) 90.9 (161.54-3.13)	Depositor EDS
R_{merge}	0.42	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.81 (at 3.13Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.192 , 0.244 0.192 , 0.244	Depositor DCC
R_{free} test set	2000 reflections (0.20%)	wwPDB-VP
Wilson B-factor (Å ²)	89.4	Xtrriage
Anisotropy	0.275	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 75.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	296999	wwPDB-VP
Average B, all atoms (Å ²)	109.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.50% 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 i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: 5MU, T6A, 7MG, U8U, SPE, OMC, 4SU, SF4, ZN, PSU, H2U, MG

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	13	0.67	3/36095 (0.0%)	1.26	206/56332 (0.4%)
1	1G	0.60	2/36309 (0.0%)	1.18	153/56668 (0.3%)
2	12	0.38	0/1727	0.64	2/2326 (0.1%)
2	1E	0.40	0/1908	0.62	2/2573 (0.1%)
3	22	0.47	1/1560 (0.1%)	0.58	0/2104
3	2E	0.44	1/1629 (0.1%)	0.60	1/2195 (0.0%)
4	32	0.41	0/1732	0.60	0/2318
4	3E	0.49	1/1728 (0.1%)	0.64	3/2313 (0.1%)
5	42	0.40	0/1156	0.62	0/1557
5	4E	0.40	0/1158	0.61	0/1559
6	52	0.45	0/855	0.61	1/1154 (0.1%)
6	5E	0.47	0/850	0.61	0/1147
7	62	0.39	0/1122	0.56	0/1500
7	6E	0.40	0/1259	0.51	0/1686
8	72	0.38	0/1127	0.59	0/1517
8	7E	0.40	0/1135	0.61	0/1527
9	82	0.36	0/971	0.62	0/1304
9	8E	0.38	0/1019	0.61	0/1367
10	1A	0.93	2/658 (0.3%)	0.57	0/885
10	1I	0.37	0/762	0.61	0/1027
11	2A	0.40	0/850	0.60	0/1150
11	2I	0.43	0/838	0.62	0/1133
12	3A	0.48	0/963	0.69	1/1290 (0.1%)
12	3I	0.57	0/972	0.76	0/1301
13	4A	0.34	0/889	0.58	0/1192
13	4I	0.46	0/943	0.65	0/1265
14	5A	0.40	0/495	0.66	0/657
14	5I	0.49	0/495	0.74	1/657 (0.2%)
15	6A	0.39	0/740	0.56	0/987
15	6I	0.44	0/740	0.61	0/987
16	7A	0.41	0/721	0.63	0/970
16	7I	0.40	0/716	0.67	0/963

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	8A	0.45	0/836	0.59	0/1117
17	8I	0.48	0/847	0.66	0/1131
18	9A	0.44	0/549	0.64	0/732
18	9I	0.42	0/554	0.63	0/739
19	AA	0.38	0/520	0.71	0/700
19	AI	0.40	0/676	0.72	1/910 (0.1%)
20	BA	0.37	0/764	0.66	1/1007 (0.1%)
20	BI	0.36	0/748	0.60	1/986 (0.1%)
21	1B	0.37	0/192	0.58	0/252
21	1F	0.43	0/203	0.62	0/266
22	1K	0.57	0/1568	1.21	10/2434 (0.4%)
23	2K	0.73	0/1721	1.30	11/2682 (0.4%)
23	2L	0.67	1/1721 (0.1%)	1.17	4/2682 (0.1%)
24	3K	0.49	0/1654	1.14	11/2570 (0.4%)
24	3L	0.53	0/1705	1.15	12/2650 (0.5%)
25	4K	0.79	0/499	1.32	5/778 (0.6%)
25	4L	0.67	0/473	1.32	3/737 (0.4%)
26	14	0.84	35/68159 (0.1%)	1.43	876/106398 (0.8%)
26	1H	0.99	95/68309 (0.1%)	1.56	1280/106631 (1.2%)
27	16	0.74	0/2928	1.41	33/4568 (0.7%)
27	1J	0.65	0/2928	1.31	16/4568 (0.4%)
28	71	0.30	0/1049	0.54	0/1417
29	11	0.64	1/2170 (0.0%)	0.85	2/2926 (0.1%)
29	19	0.62	1/2175 (0.0%)	0.79	2/2933 (0.1%)
30	21	0.57	0/1579	0.90	5/2131 (0.2%)
30	29	0.56	0/1596	0.82	2/2153 (0.1%)
31	31	0.62	0/1620	0.84	1/2194 (0.0%)
31	39	0.53	1/1637 (0.1%)	0.80	1/2218 (0.0%)
32	41	0.43	0/1481	0.67	0/1994
32	49	0.45	1/1483 (0.1%)	0.62	1/1997 (0.1%)
33	51	0.52	0/1354	0.85	2/1833 (0.1%)
33	59	0.38	0/1320	0.68	2/1787 (0.1%)
34	61	0.43	0/1146	0.71	2/1551 (0.1%)
34	69	0.48	1/1146 (0.1%)	0.68	1/1551 (0.1%)
35	15	0.42	0/1123	0.64	0/1515
35	58	0.51	0/1123	0.76	1/1514 (0.1%)
36	25	0.52	0/942	0.72	1/1269 (0.1%)
36	68	0.57	0/942	0.73	0/1269
37	35	0.52	0/1139	0.78	1/1514 (0.1%)
37	78	0.62	1/1139 (0.1%)	0.96	4/1514 (0.3%)
38	45	0.55	0/1120	0.82	0/1498
38	88	0.61	0/1138	0.90	1/1523 (0.1%)
39	55	0.50	0/981	0.77	1/1312 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	98	0.48	0/981	0.79	1/1312 (0.1%)
40	65	0.46	0/886	0.75	1/1180 (0.1%)
40	A8	0.53	0/891	0.78	1/1187 (0.1%)
41	75	0.51	0/1123	0.76	1/1500 (0.1%)
41	B8	0.55	0/1133	0.76	1/1514 (0.1%)
42	85	0.46	0/977	0.67	1/1301 (0.1%)
42	C8	0.59	0/968	0.76	1/1289 (0.1%)
43	95	0.46	0/781	0.79	1/1048 (0.1%)
43	D8	0.58	0/785	0.75	1/1052 (0.1%)
44	A5	0.53	0/897	0.69	0/1204
44	E8	0.56	0/886	0.75	0/1189
45	B5	0.56	0/749	0.73	0/1007
45	F8	0.62	0/764	0.80	1/1025 (0.1%)
46	C5	0.64	0/807	0.86	1/1076 (0.1%)
46	G8	0.65	0/796	0.94	2/1062 (0.2%)
47	D5	0.72	1/1443 (0.1%)	0.65	0/1960
47	H8	0.43	0/1395	0.73	2/1890 (0.1%)
48	E5	0.49	0/611	0.73	0/814
48	I8	0.62	0/619	0.81	0/825
49	F5	0.52	0/744	0.84	1/989 (0.1%)
49	J8	0.66	0/754	0.95	3/1003 (0.3%)
50	G5	0.51	0/578	0.70	0/766
50	K8	0.61	0/577	0.93	1/763 (0.1%)
51	H5	0.48	0/464	0.64	0/623
51	L8	0.48	0/464	0.77	1/623 (0.2%)
52	M8	0.45	0/485	0.78	0/652
53	J5	0.49	0/448	0.74	0/606
53	N8	0.59	0/381	0.77	0/516
54	L5	0.52	0/409	0.76	0/540
54	P8	0.67	0/409	0.88	1/540 (0.2%)
55	M5	0.65	0/524	0.85	0/691
55	Q8	0.60	0/524	0.90	1/691 (0.1%)
56	1L	0.47	1/1516 (0.1%)	0.95	1/2350 (0.0%)
All	All	0.74	149/316848 (0.0%)	1.26	2688/474550 (0.6%)

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
2	12	0	3

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
2	1E	0	4
4	32	0	5
4	3E	0	1
8	72	0	1
9	82	0	2
9	8E	0	2
10	1A	0	1
11	2A	0	1
12	3A	0	1
12	3I	0	3
13	4I	0	3
14	5A	0	1
16	7I	0	1
19	AA	0	1
19	AI	0	1
20	BA	0	3
20	BI	0	1
29	11	0	4
29	19	0	2
30	21	0	7
30	29	0	5
31	39	0	8
32	49	0	2
33	51	0	6
33	59	0	4
34	61	0	3
34	69	0	4
35	15	0	1
35	58	0	1
37	35	0	1
37	78	0	6
38	45	0	2
38	88	0	1
39	98	0	2
40	65	0	2
40	A8	0	1
41	75	0	3
41	B8	0	3
42	85	0	4
42	C8	0	3
43	D8	0	3
44	A5	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
45	B5	0	2
46	C5	0	3
46	G8	0	3
47	D5	0	4
47	H8	0	5
49	F5	0	1
49	J8	0	3
50	G5	0	3
50	K8	0	3
52	M8	0	4
55	M5	0	4
55	Q8	0	2
All	All	0	151

The worst 5 of 149 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	D5	94	GLU	C-N	23.32	1.78	1.34
10	1A	38	ILE	C-N	19.43	1.71	1.34
26	1H	2430	A	N9-C4	-14.21	1.29	1.37
26	1H	774	A	N9-C4	-13.66	1.29	1.37
3	22	173	VAL	C-N	12.84	1.58	1.34

The worst 5 of 2688 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	1H	1899	G	N3-C4-N9	-18.59	114.85	126.00
26	1H	1332	G	C5-N7-C8	-17.78	95.41	104.30
26	1H	1332	G	C2-N3-C4	-17.15	103.32	111.90
26	1H	676	A	C2-N3-C4	-16.45	102.38	110.60
26	1H	783	A	C2-N3-C4	-16.44	102.38	110.60

There are no chirality outliers.

5 of 151 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1E	15	VAL	Peptide
2	1E	234	PRO	Peptide
2	1E	236	TYR	Peptide
2	1E	9	GLU	Peptide
4	3E	29	PRO	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	13	32246	0	16276	858	0
1	1G	32437	0	16372	887	2
2	12	1696	0	1730	94	0
2	1E	1874	0	1926	99	0
3	22	1537	0	1603	87	0
3	2E	1605	0	1668	60	0
4	32	1702	0	1765	98	0
4	3E	1698	0	1761	84	0
5	42	1141	0	1198	41	0
5	4E	1142	0	1204	54	0
6	52	842	0	857	34	0
6	5E	837	0	852	34	0
7	62	1110	0	1163	66	0
7	6E	1242	0	1286	54	0
8	72	1107	0	1165	49	0
8	7E	1115	0	1177	69	0
9	82	953	0	983	75	0
9	8E	1000	0	1031	61	0
10	1A	646	0	662	41	0
10	1I	749	0	767	45	0
11	2A	835	0	847	27	0
11	2I	823	0	832	41	0
12	3A	947	0	1033	37	0
12	3I	956	0	1046	33	0
13	4A	879	0	935	67	0
13	4I	933	0	992	51	0
14	5A	486	0	525	34	0
14	5I	486	0	524	28	0
15	6A	729	0	768	27	0
15	6I	729	0	768	31	0
16	7A	705	0	725	29	0
16	7I	700	0	720	49	0
17	8A	823	0	891	32	0
17	8I	834	0	904	62	0
18	9A	544	0	605	23	0
18	9I	549	0	607	23	0
19	AA	510	0	507	34	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	AI	661	0	683	38	0
20	BA	762	0	861	40	0
20	BI	746	0	843	45	0
21	1B	188	0	195	11	0
21	1F	199	0	208	12	0
22	1K	1542	0	790	43	0
23	2K	1646	0	843	36	0
23	2L	1646	0	845	32	0
24	3K	1483	0	756	67	0
24	3L	1528	0	778	48	0
25	4K	442	0	219	9	0
25	4L	419	0	208	23	0
26	14	60857	0	30679	1311	1
26	1H	60991	0	30744	1358	1
27	16	2617	0	1328	56	0
27	1J	2617	0	1328	84	0
28	71	1027	0	1043	66	0
29	11	2120	0	2197	121	0
29	19	2125	0	2199	108	0
30	21	1546	0	1602	94	0
30	29	1563	0	1629	110	0
31	31	1585	0	1632	87	0
31	39	1602	0	1649	97	0
32	41	1457	0	1514	76	0
32	49	1459	0	1507	73	0
33	51	1328	0	1396	77	0
33	59	1295	0	1366	74	0
34	61	1131	0	1218	44	0
34	69	1131	0	1218	58	0
35	15	1096	0	1168	56	0
35	58	1096	0	1169	67	0
36	25	932	0	996	48	0
36	68	932	0	996	38	0
37	35	1122	0	1206	75	0
37	78	1122	0	1206	99	0
38	45	1099	0	1154	74	0
38	88	1117	0	1168	55	0
39	55	967	0	1033	47	0
39	98	967	0	1033	51	0
40	65	876	0	938	55	0
40	A8	881	0	943	55	0
41	75	1109	0	1170	63	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	B8	1119	0	1177	71	0
42	85	959	0	1019	64	0
42	C8	950	0	1011	55	0
43	95	770	0	838	41	0
43	D8	774	0	849	42	0
44	A5	886	0	948	35	0
44	E8	876	0	941	27	0
45	B5	735	0	785	32	0
45	F8	750	0	814	33	0
46	C5	794	0	885	61	0
46	G8	783	0	869	48	0
47	D5	1411	0	1436	83	0
47	H8	1365	0	1391	60	0
48	E5	603	0	620	40	0
48	I8	611	0	631	32	0
49	F5	737	0	813	43	0
49	J8	747	0	817	35	0
50	G5	576	0	625	33	0
50	K8	575	0	634	45	0
51	H5	459	0	512	15	0
51	L8	459	0	512	22	0
52	M8	475	0	465	34	0
53	J5	434	0	454	23	0
53	N8	369	0	388	21	0
54	L5	401	0	436	21	0
54	P8	401	0	436	13	0
55	M5	516	0	582	28	0
55	Q8	516	0	582	34	0
56	1L	1402	0	715	32	0
57	13	141	0	0	0	0
57	14	460	0	0	0	0
57	16	12	0	0	0	0
57	19	1	0	0	0	0
57	1G	125	0	0	0	0
57	1H	552	0	0	0	0
57	1J	10	0	0	0	0
57	21	3	0	0	0	0
57	25	1	0	0	0	0
57	29	1	0	0	0	0
57	2I	1	0	0	0	0
57	2K	3	0	0	0	0
57	2L	2	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	31	1	0	0	0	0
57	32	1	0	0	0	0
57	35	2	0	0	0	0
57	39	1	0	0	0	0
57	3I	1	0	0	0	0
57	41	1	0	0	0	0
57	42	2	0	0	0	0
57	45	1	0	0	0	0
57	4L	1	0	0	0	0
57	52	1	0	0	0	0
57	7A	1	0	0	0	0
57	88	3	0	0	0	0
57	B5	1	0	0	0	0
57	E5	2	0	0	0	0
57	F8	1	0	0	0	0
57	I8	2	0	0	0	0
57	M5	1	0	0	0	0
57	P8	1	0	0	0	0
57	Q8	1	0	0	0	0
58	32	8	0	0	2	0
58	3E	8	0	0	0	0
59	5A	1	0	0	0	0
59	5I	1	0	0	0	0
59	C5	1	0	0	0	0
59	G8	1	0	0	0	0
60	14	13	0	24	0	0
60	1G	13	0	22	3	0
61	11	10	0	0	6	0
61	13	354	0	0	20	0
61	14	1303	0	0	91	0
61	15	3	0	0	0	0
61	16	12	0	0	1	0
61	19	14	0	0	1	0
61	1A	2	0	0	0	0
61	1G	364	0	0	24	0
61	1H	1720	0	0	128	0
61	1I	2	0	0	0	0
61	1J	27	0	0	1	0
61	1K	1	0	0	0	0
61	21	6	0	0	1	0
61	25	8	0	0	0	0
61	29	6	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	2A	1	0	0	0	0
61	2K	8	0	0	0	0
61	2L	8	0	0	0	0
61	31	6	0	0	0	0
61	32	4	0	0	1	0
61	35	8	0	0	0	0
61	39	8	0	0	0	0
61	3E	2	0	0	0	0
61	3I	2	0	0	0	0
61	3K	1	0	0	0	0
61	42	1	0	0	0	0
61	4A	2	0	0	0	0
61	4E	3	0	0	2	0
61	4K	5	0	0	0	0
61	4L	3	0	0	0	0
61	52	4	0	0	0	0
61	55	1	0	0	0	0
61	58	2	0	0	0	0
61	5I	1	0	0	0	0
61	68	2	0	0	0	0
61	6A	3	0	0	0	0
61	75	1	0	0	0	0
61	78	13	0	0	4	0
61	7A	4	0	0	0	0
61	7I	2	0	0	0	0
61	85	1	0	0	0	0
61	8E	2	0	0	0	0
61	98	1	0	0	2	0
61	9A	2	0	0	0	0
61	B5	1	0	0	0	0
61	B8	1	0	0	0	0
61	BA	3	0	0	0	0
61	BI	3	0	0	1	0
61	C5	3	0	0	0	0
61	C8	4	0	0	0	0
61	E8	1	0	0	0	0
61	F5	1	0	0	0	0
61	F8	3	0	0	1	0
61	G8	3	0	0	0	0
61	H5	1	0	0	2	0
61	I8	6	0	0	0	0
61	J8	5	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	L5	1	0	0	0	0
61	L8	4	0	0	0	0
61	M5	8	0	0	2	0
61	N8	1	0	0	0	0
61	Q8	5	0	0	1	0
All	All	296999	0	196564	8532	2

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 18.

The worst 5 of 8532 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)
10:1A:38:ILE:C	10:1A:39:PRO:N	1.71	1.39
47:D5:94:GLU:C	47:D5:95:PRO:N	1.78	1.36
38:45:27:VAL:HB	38:45:28:ALA:HA	1.16	1.08
26:1H:1604:C:OP2	61:1H:3655:HOH:O	1.75	1.04
8:72:12:ARG:HH21	8:72:27:PRO:HD3	1.22	1.02

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:82:U:O2'	26:14:271(C):U:O4[3_545]	2.14	0.06
26:1H:2137:C:OP1	1:1G:999:U:O2'[4_555]	2.17	0.03

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	12	203/256 (79%)	173 (85%)	23 (11%)	7 (3%)	3 18

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	1E	227/256 (89%)	186 (82%)	39 (17%)	2 (1%)	17	50
3	22	191/239 (80%)	172 (90%)	19 (10%)	0	100	100
3	2E	203/239 (85%)	186 (92%)	16 (8%)	1 (0%)	29	63
4	32	206/209 (99%)	180 (87%)	25 (12%)	1 (0%)	29	63
4	3E	205/209 (98%)	193 (94%)	11 (5%)	1 (0%)	29	63
5	42	148/162 (91%)	142 (96%)	5 (3%)	1 (1%)	22	56
5	4E	147/162 (91%)	136 (92%)	10 (7%)	1 (1%)	22	56
6	52	99/101 (98%)	96 (97%)	3 (3%)	0	100	100
6	5E	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
7	62	134/156 (86%)	125 (93%)	8 (6%)	1 (1%)	22	56
7	6E	152/156 (97%)	144 (95%)	8 (5%)	0	100	100
8	72	135/138 (98%)	125 (93%)	8 (6%)	2 (2%)	10	37
8	7E	136/138 (99%)	126 (93%)	9 (7%)	1 (1%)	22	56
9	82	119/128 (93%)	109 (92%)	9 (8%)	1 (1%)	19	53
9	8E	124/128 (97%)	107 (86%)	17 (14%)	0	100	100
10	1A	76/105 (72%)	71 (93%)	5 (7%)	0	100	100
10	1I	92/105 (88%)	83 (90%)	9 (10%)	0	100	100
11	2A	111/129 (86%)	99 (89%)	10 (9%)	2 (2%)	8	33
11	2I	109/129 (84%)	93 (85%)	11 (10%)	5 (5%)	2	13
12	3A	119/132 (90%)	101 (85%)	14 (12%)	4 (3%)	3	18
12	3I	120/132 (91%)	106 (88%)	13 (11%)	1 (1%)	19	53
13	4A	107/126 (85%)	89 (83%)	17 (16%)	1 (1%)	17	50
13	4I	115/126 (91%)	97 (84%)	17 (15%)	1 (1%)	17	50
14	5A	57/61 (93%)	49 (86%)	7 (12%)	1 (2%)	8	33
14	5I	57/61 (93%)	48 (84%)	7 (12%)	2 (4%)	3	18
15	6A	85/89 (96%)	80 (94%)	5 (6%)	0	100	100
15	6I	85/89 (96%)	79 (93%)	6 (7%)	0	100	100
16	7A	82/88 (93%)	76 (93%)	6 (7%)	0	100	100
16	7I	81/88 (92%)	76 (94%)	5 (6%)	0	100	100
17	8A	97/105 (92%)	91 (94%)	6 (6%)	0	100	100
17	8I	98/105 (93%)	93 (95%)	4 (4%)	1 (1%)	15	47

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	9A	65/88 (74%)	64 (98%)	1 (2%)	0	100	100
18	9I	66/88 (75%)	63 (96%)	2 (3%)	1 (2%)	10	37
19	AA	59/93 (63%)	49 (83%)	7 (12%)	3 (5%)	2	11
19	AI	80/93 (86%)	69 (86%)	7 (9%)	4 (5%)	2	12
20	BA	97/106 (92%)	79 (81%)	16 (16%)	2 (2%)	7	28
20	BI	95/106 (90%)	83 (87%)	12 (13%)	0	100	100
21	1B	20/27 (74%)	19 (95%)	1 (5%)	0	100	100
21	1F	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
28	7I	128/229 (56%)	121 (94%)	7 (6%)	0	100	100
29	11	271/276 (98%)	255 (94%)	10 (4%)	6 (2%)	6	27
29	19	272/276 (99%)	248 (91%)	21 (8%)	3 (1%)	14	45
30	21	201/206 (98%)	160 (80%)	28 (14%)	13 (6%)	1	7
30	29	202/206 (98%)	150 (74%)	40 (20%)	12 (6%)	1	9
31	31	200/210 (95%)	177 (88%)	22 (11%)	1 (0%)	29	63
31	39	202/210 (96%)	159 (79%)	36 (18%)	7 (4%)	3	18
32	41	177/182 (97%)	156 (88%)	18 (10%)	3 (2%)	9	34
32	49	178/182 (98%)	155 (87%)	22 (12%)	1 (1%)	25	59
33	51	172/180 (96%)	139 (81%)	23 (13%)	10 (6%)	1	9
33	59	167/180 (93%)	129 (77%)	32 (19%)	6 (4%)	3	18
34	61	143/148 (97%)	123 (86%)	18 (13%)	2 (1%)	11	39
34	69	143/148 (97%)	112 (78%)	28 (20%)	3 (2%)	7	28
35	15	135/140 (96%)	124 (92%)	11 (8%)	0	100	100
35	58	135/140 (96%)	114 (84%)	16 (12%)	5 (4%)	3	17
36	25	120/122 (98%)	110 (92%)	10 (8%)	0	100	100
36	68	120/122 (98%)	115 (96%)	5 (4%)	0	100	100
37	35	145/150 (97%)	120 (83%)	25 (17%)	0	100	100
37	78	145/150 (97%)	113 (78%)	21 (14%)	11 (8%)	1	5
38	45	136/141 (96%)	110 (81%)	23 (17%)	3 (2%)	6	27
38	88	139/141 (99%)	119 (86%)	14 (10%)	6 (4%)	2	14
39	55	116/118 (98%)	110 (95%)	5 (4%)	1 (1%)	17	50
39	98	116/118 (98%)	101 (87%)	15 (13%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	65	108/112 (96%)	87 (81%)	19 (18%)	2 (2%)	8	31
40	A8	109/112 (97%)	89 (82%)	19 (17%)	1 (1%)	17	50
41	75	131/146 (90%)	118 (90%)	11 (8%)	2 (2%)	10	37
41	B8	133/146 (91%)	118 (89%)	14 (10%)	1 (1%)	19	53
42	85	114/118 (97%)	107 (94%)	7 (6%)	0	100	100
42	C8	113/118 (96%)	107 (95%)	2 (2%)	4 (4%)	3	18
43	95	98/101 (97%)	81 (83%)	14 (14%)	3 (3%)	4	21
43	D8	98/101 (97%)	87 (89%)	8 (8%)	3 (3%)	4	21
44	A5	109/113 (96%)	101 (93%)	8 (7%)	0	100	100
44	E8	108/113 (96%)	102 (94%)	6 (6%)	0	100	100
45	B5	92/96 (96%)	82 (89%)	8 (9%)	2 (2%)	6	27
45	F8	93/96 (97%)	87 (94%)	6 (6%)	0	100	100
46	C5	102/110 (93%)	74 (72%)	22 (22%)	6 (6%)	1	9
46	G8	101/110 (92%)	83 (82%)	14 (14%)	4 (4%)	3	15
47	D5	175/206 (85%)	133 (76%)	32 (18%)	10 (6%)	1	9
47	H8	168/206 (82%)	136 (81%)	25 (15%)	7 (4%)	3	14
48	E5	74/85 (87%)	65 (88%)	8 (11%)	1 (1%)	11	39
48	I8	75/85 (88%)	67 (89%)	8 (11%)	0	100	100
49	F5	92/98 (94%)	81 (88%)	10 (11%)	1 (1%)	14	45
49	J8	94/98 (96%)	80 (85%)	9 (10%)	5 (5%)	2	11
50	G5	67/72 (93%)	61 (91%)	4 (6%)	2 (3%)	4	21
50	K8	66/72 (92%)	59 (89%)	4 (6%)	3 (4%)	2	13
51	H5	56/60 (93%)	54 (96%)	2 (4%)	0	100	100
51	L8	56/60 (93%)	54 (96%)	2 (4%)	0	100	100
52	M8	56/71 (79%)	39 (70%)	17 (30%)	0	100	100
53	J5	54/60 (90%)	49 (91%)	5 (9%)	0	100	100
53	N8	46/60 (77%)	43 (94%)	3 (6%)	0	100	100
54	L5	45/49 (92%)	42 (93%)	3 (7%)	0	100	100
54	P8	45/49 (92%)	41 (91%)	4 (9%)	0	100	100
55	M5	62/65 (95%)	51 (82%)	11 (18%)	0	100	100
55	Q8	62/65 (95%)	51 (82%)	7 (11%)	4 (6%)	1	7

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	11086/12104 (92%)	9718 (88%)	1167 (10%)	201 (2%)	8 33

5 of 201 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
11	2I	55	LYS
12	3I	48	PRO
18	9I	22	VAL
19	AI	41	VAL
29	11	239	ARG

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	12	179/220 (81%)	144 (80%)	35 (20%)	1 6
2	1E	200/220 (91%)	158 (79%)	42 (21%)	1 5
3	22	154/188 (82%)	123 (80%)	31 (20%)	1 5
3	2E	159/188 (85%)	127 (80%)	32 (20%)	1 5
4	32	180/181 (99%)	152 (84%)	28 (16%)	2 11
4	3E	180/181 (99%)	146 (81%)	34 (19%)	1 6
5	42	114/123 (93%)	88 (77%)	26 (23%)	1 3
5	4E	115/123 (94%)	90 (78%)	25 (22%)	1 4
6	52	90/90 (100%)	78 (87%)	12 (13%)	4 16
6	5E	90/90 (100%)	73 (81%)	17 (19%)	1 6
7	62	114/127 (90%)	91 (80%)	23 (20%)	1 5
7	6E	125/127 (98%)	105 (84%)	20 (16%)	2 10
8	72	118/119 (99%)	101 (86%)	17 (14%)	3 13
8	7E	119/119 (100%)	93 (78%)	26 (22%)	1 4
9	82	92/99 (93%)	73 (79%)	19 (21%)	1 5
9	8E	97/99 (98%)	70 (72%)	27 (28%)	0 1

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	1A	71/92 (77%)	54 (76%)	17 (24%)	0	2
10	1I	81/92 (88%)	75 (93%)	6 (7%)	13	40
11	2A	85/99 (86%)	71 (84%)	14 (16%)	2	9
11	2I	84/99 (85%)	66 (79%)	18 (21%)	1	4
12	3A	102/109 (94%)	82 (80%)	20 (20%)	1	6
12	3I	103/109 (94%)	76 (74%)	27 (26%)	0	1
13	4A	90/101 (89%)	68 (76%)	22 (24%)	0	2
13	4I	94/101 (93%)	67 (71%)	27 (29%)	0	1
14	5A	49/50 (98%)	40 (82%)	9 (18%)	1	7
14	5I	49/50 (98%)	39 (80%)	10 (20%)	1	5
15	6A	79/80 (99%)	71 (90%)	8 (10%)	7	26
15	6I	79/80 (99%)	68 (86%)	11 (14%)	3	15
16	7A	72/74 (97%)	64 (89%)	8 (11%)	6	23
16	7I	72/74 (97%)	58 (81%)	14 (19%)	1	6
17	8A	94/97 (97%)	80 (85%)	14 (15%)	3	12
17	8I	95/97 (98%)	80 (84%)	15 (16%)	2	10
18	9A	58/77 (75%)	49 (84%)	9 (16%)	2	11
18	9I	58/77 (75%)	50 (86%)	8 (14%)	3	15
19	AA	56/80 (70%)	43 (77%)	13 (23%)	1	3
19	AI	72/80 (90%)	57 (79%)	15 (21%)	1	5
20	BA	76/82 (93%)	68 (90%)	8 (10%)	7	24
20	BI	75/82 (92%)	67 (89%)	8 (11%)	6	24
21	1B	17/22 (77%)	16 (94%)	1 (6%)	19	48
21	1F	18/22 (82%)	14 (78%)	4 (22%)	1	4
28	7I	108/181 (60%)	87 (81%)	21 (19%)	1	6
29	11	214/218 (98%)	172 (80%)	42 (20%)	1	6
29	19	214/218 (98%)	167 (78%)	47 (22%)	1	4
30	21	162/166 (98%)	124 (76%)	38 (24%)	1	3
30	29	165/166 (99%)	125 (76%)	40 (24%)	0	2
31	31	161/166 (97%)	130 (81%)	31 (19%)	1	6
31	39	163/166 (98%)	123 (76%)	40 (24%)	0	2

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
32	41	153/156 (98%)	120 (78%)	33 (22%)	1	4
32	49	152/156 (97%)	117 (77%)	35 (23%)	1	3
33	51	143/148 (97%)	109 (76%)	34 (24%)	0	2
33	59	140/148 (95%)	101 (72%)	39 (28%)	0	1
34	61	122/124 (98%)	87 (71%)	35 (29%)	0	1
34	69	122/124 (98%)	88 (72%)	34 (28%)	0	1
35	15	116/119 (98%)	91 (78%)	25 (22%)	1	4
35	58	116/119 (98%)	92 (79%)	24 (21%)	1	5
36	25	100/100 (100%)	82 (82%)	18 (18%)	1	7
36	68	100/100 (100%)	89 (89%)	11 (11%)	6	23
37	35	114/116 (98%)	76 (67%)	38 (33%)	0	0
37	78	114/116 (98%)	77 (68%)	37 (32%)	0	0
38	45	109/111 (98%)	82 (75%)	27 (25%)	0	2
38	88	110/111 (99%)	91 (83%)	19 (17%)	2	8
39	55	101/101 (100%)	86 (85%)	15 (15%)	3	12
39	98	101/101 (100%)	79 (78%)	22 (22%)	1	4
40	65	87/88 (99%)	67 (77%)	20 (23%)	1	3
40	A8	87/88 (99%)	61 (70%)	26 (30%)	0	1
41	75	117/127 (92%)	85 (73%)	32 (27%)	0	1
41	B8	117/127 (92%)	84 (72%)	33 (28%)	0	1
42	85	93/94 (99%)	77 (83%)	16 (17%)	2	8
42	C8	92/94 (98%)	80 (87%)	12 (13%)	4	17
43	95	81/82 (99%)	66 (82%)	15 (18%)	1	7
43	D8	82/82 (100%)	54 (66%)	28 (34%)	0	0
44	A5	91/92 (99%)	72 (79%)	19 (21%)	1	5
44	E8	90/92 (98%)	76 (84%)	14 (16%)	2	11
45	B5	74/78 (95%)	58 (78%)	16 (22%)	1	4
45	F8	77/78 (99%)	67 (87%)	10 (13%)	4	17
46	C5	85/91 (93%)	61 (72%)	24 (28%)	0	1
46	G8	84/91 (92%)	67 (80%)	17 (20%)	1	5
47	D5	156/179 (87%)	118 (76%)	38 (24%)	0	2

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
47	H8	151/179 (84%)	128 (85%)	23 (15%)	3	11
48	E5	61/67 (91%)	55 (90%)	6 (10%)	8	27
48	I8	62/67 (92%)	56 (90%)	6 (10%)	8	28
49	F5	79/83 (95%)	64 (81%)	15 (19%)	1	6
49	J8	79/83 (95%)	67 (85%)	12 (15%)	3	11
50	G5	63/67 (94%)	47 (75%)	16 (25%)	0	1
50	K8	64/67 (96%)	47 (73%)	17 (27%)	0	1
51	H5	50/52 (96%)	37 (74%)	13 (26%)	0	1
51	L8	50/52 (96%)	41 (82%)	9 (18%)	1	7
52	M8	52/63 (82%)	38 (73%)	14 (27%)	0	1
53	J5	48/52 (92%)	38 (79%)	10 (21%)	1	5
53	N8	43/52 (83%)	34 (79%)	9 (21%)	1	5
54	L5	38/42 (90%)	31 (82%)	7 (18%)	1	7
54	P8	38/42 (90%)	31 (82%)	7 (18%)	1	7
55	M5	54/55 (98%)	44 (82%)	10 (18%)	1	7
55	Q8	54/55 (98%)	43 (80%)	11 (20%)	1	5
All	All	9354/10012 (93%)	7424 (79%)	1930 (21%)	1	5

5 of 1930 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
50	K8	55	ARG
44	A5	110	LYS
8	72	102	ARG
43	95	93	GLU
51	H5	8	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 14 such sidechains are listed below:

Mol	Chain	Res	Type
55	Q8	31	HIS
2	12	16	HIS
43	95	11	GLN
30	29	54	GLN
30	29	55	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1500/1522 (98%)	349 (23%)	39 (2%)
1	1G	1508/1522 (99%)	354 (23%)	40 (2%)
22	1K	69/76 (90%)	29 (42%)	5 (7%)
23	2K	76/77 (98%)	24 (31%)	2 (2%)
23	2L	76/77 (98%)	20 (26%)	1 (1%)
24	3K	67/76 (88%)	39 (58%)	2 (2%)
24	3L	69/76 (90%)	32 (46%)	2 (2%)
25	4K	19/30 (63%)	11 (57%)	2 (10%)
25	4L	18/30 (60%)	13 (72%)	1 (5%)
26	14	2820/2917 (96%)	664 (23%)	45 (1%)
26	1H	2824/2917 (96%)	601 (21%)	36 (1%)
27	16	121/122 (99%)	22 (18%)	3 (2%)
27	1J	121/122 (99%)	33 (27%)	2 (1%)
56	1L	62/76 (81%)	27 (43%)	4 (6%)
All	All	9350/9640 (96%)	2218 (23%)	184 (1%)

5 of 2218 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	2	U
1	13	3	G
1	13	4	U
1	13	5	U
1	13	6	G

5 of 184 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1G	991	U
26	14	278	A
1	1G	1157	A
56	1L	9	A
26	14	888	C

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

18 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
23	PSU	2K	56	23	18,21,22	1.19	2 (11%)	22,30,33	1.91	4 (18%)
22	PSU	1K	39	22	18,21,22	1.20	1 (5%)	22,30,33	1.58	3 (13%)
23	OMC	2L	33	23	19,22,23	1.79	3 (15%)	26,31,34	0.82	0
22	5MU	1K	54	22	19,22,23	3.97	5 (26%)	28,32,35	3.00	9 (32%)
22	T6A	1K	37	22	27,34,35	2.57	5 (18%)	29,49,52	2.44	5 (17%)
22	H2U	1K	17	22	18,21,22	2.07	4 (22%)	21,30,33	2.18	5 (23%)
23	5MU	2K	55	23	19,22,23	3.79	5 (26%)	28,32,35	3.27	10 (35%)
23	7MG	2L	47	23	22,26,27	2.84	6 (27%)	29,39,42	2.98	10 (34%)
23	4SU	2L	8	23	18,21,22	1.90	3 (16%)	26,30,33	2.45	5 (19%)
22	U8U	1K	34	25,22	19,24,25	2.50	7 (36%)	23,34,37	1.25	3 (13%)
23	4SU	2K	8	23	18,21,22	1.57	3 (16%)	26,30,33	2.62	5 (19%)
23	OMC	2K	33	23	19,22,23	1.72	3 (15%)	26,31,34	0.89	1 (3%)
23	7MG	2K	47	23	22,26,27	3.31	6 (27%)	29,39,42	3.07	12 (41%)
22	PSU	1K	55	22	18,21,22	1.17	1 (5%)	22,30,33	1.72	4 (18%)
23	5MU	2L	55	23	19,22,23	3.96	5 (26%)	28,32,35	3.17	8 (28%)
56	5MU	1L	54	56	19,22,23	3.97	5 (26%)	28,32,35	3.19	9 (32%)
56	PSU	1L	55	56	18,21,22	1.27	1 (5%)	22,30,33	1.62	4 (18%)
23	PSU	2L	56	23	18,21,22	1.34	2 (11%)	22,30,33	1.73	3 (13%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2
22	PSU	1K	39	22	-	0/7/25/26	0/2/2/2
23	OMC	2L	33	23	-	0/9/27/28	0/2/2/2
22	5MU	1K	54	22	-	2/7/25/26	0/2/2/2
22	T6A	1K	37	22	-	5/19/41/42	0/3/3/3
22	H2U	1K	17	22	-	0/7/38/39	0/2/2/2
23	5MU	2K	55	23	-	2/7/25/26	0/2/2/2
23	7MG	2L	47	23	-	4/7/37/38	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	4SU	2L	8	23	-	2/7/25/26	0/2/2/2
22	U8U	1K	34	25,22	-	1/9/28/29	0/2/2/2
23	4SU	2K	8	23	-	3/7/25/26	0/2/2/2
23	OMC	2K	33	23	-	0/9/27/28	0/2/2/2
23	7MG	2K	47	23	-	3/7/37/38	0/3/3/3
22	PSU	1K	55	22	-	0/7/25/26	0/2/2/2
23	5MU	2L	55	23	-	0/7/25/26	0/2/2/2
56	5MU	1L	54	56	-	3/7/25/26	0/2/2/2
56	PSU	1L	55	56	-	0/7/25/26	0/2/2/2
23	PSU	2L	56	23	-	0/7/25/26	0/2/2/2

The worst 5 of 67 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1K	54	5MU	C2-N1	13.05	1.59	1.38
56	1L	54	5MU	C2-N1	13.01	1.59	1.38
23	2L	55	5MU	C2-N1	12.77	1.58	1.38
23	2K	55	5MU	C2-N1	12.08	1.57	1.38
23	2K	47	7MG	C5-N7	8.64	1.45	1.35

The worst 5 of 100 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	1L	54	5MU	C5-C4-N3	10.43	124.21	115.31
23	2K	55	5MU	C5-C4-N3	10.25	124.06	115.31
23	2L	55	5MU	C5-C4-N3	10.10	123.93	115.31
22	1K	54	5MU	C5-C4-N3	9.86	123.72	115.31
23	2K	8	4SU	C4-N3-C2	-8.30	119.28	127.34

There are no chirality outliers.

5 of 25 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	1K	37	T6A	C14-C12-N11-C10
22	1K	37	T6A	N11-C12-C14-O14
22	1K	37	T6A	N11-C12-C14-C15
22	1K	37	T6A	C13-C12-C14-O14
22	1K	37	T6A	C13-C12-C14-C15

There are no ring outliers.

9 monomers are involved in 25 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	2L	33	OMC	3	0
22	1K	54	5MU	3	0
22	1K	37	T6A	1	0
23	2K	55	5MU	5	0
23	2L	47	7MG	3	0
23	2K	8	4SU	1	0
23	2K	33	OMC	1	0
23	2K	47	7MG	6	0
56	1L	54	5MU	2	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1345 ligands modelled in this entry, 1341 are monoatomic - leaving 4 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
60	SPE	14	3458	-	12,12,12	0.45	0	11,11,11	0.76	0
58	SF4	3E	301	4	0,12,12	-	-	-		
58	SF4	32	302	-	0,12,12	-	-	-		
60	SPE	1G	1725	1	12,12,12	0.41	0	11,11,11	0.73	0

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
58	SF4	3E	301	4	-	-	0/6/5/5
60	SPE	14	3458	-	-	5/10/10/10	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
60	SPE	1G	1725	1	-	5/10/10/10	-
58	SF4	32	302	-	-	-	0/6/5/5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 10 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
60	1G	1725	SPE	C2-C3-C4-N5
60	14	3458	SPE	N9-C10-C11-C12
60	14	3458	SPE	C2-C3-C4-N5
60	14	3458	SPE	C6-C7-C8-N9
60	1G	1725	SPE	C11-C10-N9-C8

There are no ring outliers.

2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
58	32	302	SF4	2	0
60	1G	1725	SPE	3	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
56	1L	1
47	D5	1
10	1A	1
34	69	1
4	3E	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	1L	72:C	O3'	73:A	P	3.48
1	D5	94:GLU	C	95:PRO	N	1.78
1	1A	38:ILE	C	39:PRO	N	1.71
1	69	79:ILE	C	80:PRO	N	1.17
1	3E	36:ARG	C	37:PRO	N	1.15

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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	13	1500/1522 (98%)	-0.52	0 100 100	67, 111, 176, 243	0
1	1G	1509/1522 (99%)	-0.47	3 (0%) 95 91	76, 123, 193, 253	0
2	12	207/256 (80%)	0.27	13 (6%) 20 9	139, 165, 185, 196	0
2	1E	231/256 (90%)	-0.06	5 (2%) 62 42	118, 145, 172, 180	0
3	22	195/239 (81%)	0.75	27 (13%) 2 1	123, 147, 164, 175	0
3	2E	205/239 (85%)	0.34	12 (5%) 22 10	97, 117, 144, 155	0
4	32	208/209 (99%)	-0.31	0 100 100	104, 123, 142, 149	0
4	3E	207/209 (99%)	-0.20	1 (0%) 91 83	93, 118, 137, 144	0
5	42	150/162 (92%)	-0.23	0 100 100	106, 123, 139, 146	0
5	4E	149/162 (91%)	-0.06	0 100 100	87, 109, 128, 133	0
6	52	101/101 (100%)	-0.42	0 100 100	93, 110, 124, 135	0
6	5E	100/101 (99%)	-0.03	1 (1%) 82 70	92, 111, 127, 135	0
7	62	138/156 (88%)	0.83	13 (9%) 8 3	122, 135, 145, 151	0
7	6E	154/156 (98%)	1.00	29 (18%) 1 0	111, 127, 155, 174	0
8	72	137/138 (99%)	-0.08	2 (1%) 73 56	106, 129, 141, 149	0
8	7E	138/138 (100%)	0.78	15 (10%) 5 2	102, 117, 129, 139	0
9	82	121/128 (94%)	1.39	31 (25%) 0 0	118, 161, 171, 178	0
9	8E	126/128 (98%)	-0.09	2 (1%) 72 53	96, 141, 159, 165	0
10	1A	80/105 (76%)	0.36	11 (13%) 2 1	122, 152, 167, 170	0
10	1I	94/105 (89%)	1.43	26 (27%) 0 0	92, 136, 171, 178	0
11	2A	113/129 (87%)	0.79	13 (11%) 4 2	91, 116, 131, 138	0
11	2I	111/129 (86%)	1.40	29 (26%) 0 0	84, 113, 129, 138	0
12	3A	121/132 (91%)	0.68	18 (14%) 2 1	94, 109, 128, 144	0
12	3I	122/132 (92%)	0.11	3 (2%) 57 37	81, 89, 110, 132	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	4A	109/126 (86%)	0.21	14 (12%) 3 1	125, 152, 170, 187	0
13	4I	117/126 (92%)	-0.04	3 (2%) 56 35	97, 125, 138, 145	0
14	5A	59/61 (96%)	2.08	26 (44%) 0 0	131, 146, 164, 167	0
14	5I	59/61 (96%)	0.51	4 (6%) 17 7	92, 106, 121, 129	0
15	6A	87/89 (97%)	-0.54	0 100 100	93, 117, 133, 137	0
15	6I	87/89 (97%)	0.13	2 (2%) 60 40	89, 107, 126, 130	0
16	7A	84/88 (95%)	-0.37	0 100 100	100, 116, 137, 159	0
16	7I	83/88 (94%)	-0.02	1 (1%) 79 64	107, 119, 145, 163	0
17	8A	99/105 (94%)	0.02	0 100 100	100, 112, 125, 131	0
17	8I	100/105 (95%)	1.09	15 (15%) 2 1	95, 114, 124, 128	0
18	9A	67/88 (76%)	-0.23	1 (1%) 73 56	101, 117, 135, 140	0
18	9I	68/88 (77%)	0.03	0 100 100	97, 113, 133, 138	0
19	AA	65/93 (69%)	0.57	9 (13%) 2 1	130, 162, 174, 180	0
19	AI	82/93 (88%)	0.44	7 (8%) 10 4	108, 126, 146, 153	0
20	BA	99/106 (93%)	0.86	17 (17%) 1 1	94, 119, 140, 153	0
20	BI	97/106 (91%)	0.91	21 (21%) 0 0	113, 127, 150, 157	0
21	1B	22/27 (81%)	1.06	4 (18%) 1 0	122, 139, 143, 150	0
21	1F	23/27 (85%)	-0.44	0 100 100	103, 110, 116, 123	0
22	1K	66/76 (86%)	0.03	1 (1%) 73 56	104, 183, 206, 212	0
23	2K	72/77 (93%)	-0.01	2 (2%) 53 31	75, 100, 133, 145	0
23	2L	72/77 (93%)	-0.23	1 (1%) 75 59	85, 120, 153, 162	0
24	3K	70/76 (92%)	1.17	19 (27%) 0 0	82, 225, 245, 249	0
24	3L	72/76 (94%)	-0.01	2 (2%) 53 31	87, 206, 223, 228	0
25	4K	20/30 (66%)	0.71	4 (20%) 1 0	81, 145, 215, 216	0
25	4L	19/30 (63%)	0.13	1 (5%) 26 12	101, 162, 218, 218	0
26	14	2825/2917 (96%)	-0.29	11 (0%) 92 86	62, 91, 198, 251	0
26	1H	2831/2917 (97%)	-0.32	3 (0%) 95 93	51, 79, 176, 251	0
27	16	122/122 (100%)	-0.57	1 (0%) 86 74	76, 98, 118, 204	0
27	1J	122/122 (100%)	-0.76	0 100 100	94, 133, 152, 210	0
28	7I	132/229 (57%)	0.36	10 (7%) 13 5	143, 206, 228, 235	0
29	11	273/276 (98%)	0.12	1 (0%) 92 86	48, 71, 88, 95	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	19	274/276 (99%)	0.13	1 (0%) 92 86	56, 80, 94, 111	0
30	21	203/206 (98%)	0.18	3 (1%) 73 56	57, 90, 121, 133	0
30	29	204/206 (99%)	0.40	13 (6%) 19 8	66, 97, 133, 147	0
31	31	202/210 (96%)	0.19	4 (1%) 65 46	51, 82, 114, 134	0
31	39	204/210 (97%)	-0.12	1 (0%) 91 83	64, 105, 148, 175	0
32	41	179/182 (98%)	0.28	6 (3%) 45 24	90, 109, 139, 154	0
32	49	180/182 (98%)	0.59	23 (12%) 3 1	125, 147, 166, 179	0
33	51	174/180 (96%)	-0.31	0 100 100	82, 105, 123, 133	0
33	59	169/180 (93%)	2.49	94 (55%) 0 0	157, 203, 223, 233	0
34	61	145/148 (97%)	0.14	4 (2%) 53 31	82, 128, 147, 153	0
34	69	145/148 (97%)	-0.15	1 (0%) 87 77	91, 129, 149, 154	0
35	15	137/140 (97%)	0.61	12 (8%) 10 4	82, 110, 140, 150	0
35	58	137/140 (97%)	0.31	4 (2%) 51 30	71, 90, 122, 138	0
36	25	122/122 (100%)	1.04	14 (11%) 4 2	74, 90, 108, 120	0
36	68	122/122 (100%)	-0.21	0 100 100	67, 82, 98, 106	0
37	35	147/150 (98%)	0.65	21 (14%) 2 1	64, 106, 141, 158	0
37	78	147/150 (98%)	0.21	0 100 100	58, 84, 106, 114	0
38	45	138/141 (97%)	0.18	3 (2%) 62 42	79, 106, 127, 138	0
38	88	141/141 (100%)	0.62	8 (5%) 23 11	62, 83, 104, 133	0
39	55	118/118 (100%)	0.20	2 (1%) 70 51	68, 85, 100, 113	0
39	98	118/118 (100%)	0.56	6 (5%) 28 13	67, 86, 103, 117	0
40	65	110/112 (98%)	-0.07	4 (3%) 42 22	99, 124, 141, 145	0
40	A8	111/112 (99%)	0.15	4 (3%) 42 22	82, 95, 114, 127	0
41	75	133/146 (91%)	0.72	8 (6%) 21 10	82, 97, 127, 145	0
41	B8	135/146 (92%)	-0.29	1 (0%) 87 77	79, 96, 135, 151	0
42	85	116/118 (98%)	0.03	0 100 100	72, 101, 129, 136	0
42	C8	115/118 (97%)	0.18	2 (1%) 70 51	60, 82, 108, 115	0
43	95	100/101 (99%)	0.55	6 (6%) 21 10	72, 120, 140, 147	0
43	D8	100/101 (99%)	1.15	17 (17%) 1 1	62, 100, 120, 130	0
44	A5	111/113 (98%)	0.15	1 (0%) 84 72	71, 81, 107, 139	0
44	E8	110/113 (97%)	0.27	4 (3%) 42 22	64, 77, 100, 113	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	B5	94/96 (97%)	0.84	12 (12%) 3 1	78, 90, 111, 121	0
45	F8	95/96 (98%)	-0.12	0 100 100	59, 74, 98, 108	0
46	C5	104/110 (94%)	1.01	19 (18%) 1 0	92, 119, 152, 158	0
46	G8	103/110 (93%)	-0.38	0 100 100	76, 97, 124, 134	0
47	D5	177/206 (85%)	1.43	50 (28%) 0 0	117, 159, 218, 223	0
47	H8	170/206 (82%)	1.58	56 (32%) 0 0	88, 121, 189, 196	0
48	E5	76/85 (89%)	0.32	3 (3%) 39 20	78, 97, 111, 120	0
48	I8	77/85 (90%)	0.23	2 (2%) 56 35	64, 79, 96, 108	0
49	F5	94/98 (95%)	1.18	20 (21%) 0 0	69, 89, 125, 139	0
49	J8	96/98 (97%)	0.37	1 (1%) 82 70	61, 80, 117, 123	0
50	G5	69/72 (95%)	0.33	3 (4%) 35 17	90, 109, 132, 144	0
50	K8	68/72 (94%)	-0.15	1 (1%) 73 56	68, 84, 105, 129	0
51	H5	58/60 (96%)	0.68	1 (1%) 70 51	81, 101, 126, 136	0
51	L8	58/60 (96%)	0.35	0 100 100	70, 84, 110, 122	0
52	M8	60/71 (84%)	1.13	10 (16%) 1 1	114, 150, 177, 181	0
53	J5	56/60 (93%)	0.13	1 (1%) 68 49	67, 90, 133, 143	0
53	N8	48/60 (80%)	0.27	1 (2%) 63 44	56, 85, 128, 135	0
54	L5	47/49 (95%)	0.46	2 (4%) 35 17	61, 69, 91, 100	0
54	P8	47/49 (95%)	-0.13	0 100 100	54, 59, 77, 89	0
55	M5	64/65 (98%)	1.19	18 (28%) 0 0	76, 86, 101, 117	0
55	Q8	64/65 (98%)	0.22	0 100 100	61, 75, 88, 101	0
56	1L	64/76 (84%)	0.13	2 (3%) 49 27	140, 201, 221, 227	0
All	All	20656/21744 (94%)	0.05	903 (4%) 34 17	48, 105, 181, 253	0

The worst 5 of 903 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
43	D8	37	VAL	14.5
47	H8	113	ALA	10.9
33	59	17	VAL	10.1
33	59	96	ALA	8.5
33	59	95	ARG	8.2

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
56	PSU	1L	55	20/21	0.85	0.10	121,135,144,145	0
22	H2U	1K	17	20/21	0.86	0.14	130,139,153,158	0
23	7MG	2K	47	24/25	0.88	0.19	99,108,119,120	0
22	PSU	1K	55	20/21	0.88	0.15	115,126,136,137	0
22	5MU	1K	54	21/22	0.89	0.17	116,121,138,149	0
23	PSU	2L	56	20/21	0.90	0.11	112,122,130,133	0
56	5MU	1L	54	21/22	0.92	0.11	125,136,146,154	0
22	T6A	1K	37	32/33	0.93	0.20	91,108,133,134	0
23	4SU	2K	8	20/21	0.93	0.16	91,99,105,106	0
23	5MU	2K	55	21/22	0.94	0.14	105,112,118,128	0
23	PSU	2K	56	20/21	0.94	0.12	102,108,119,120	0
23	4SU	2L	8	20/21	0.94	0.15	108,116,123,125	0
22	PSU	1K	39	20/21	0.94	0.11	100,119,123,124	0
23	7MG	2L	47	24/25	0.94	0.13	124,131,143,146	0
23	OMC	2K	33	21/22	0.96	0.25	85,89,90,91	0
23	5MU	2L	55	21/22	0.96	0.14	115,126,133,135	0
23	OMC	2L	33	21/22	0.96	0.18	100,107,110,117	0
22	U8U	1K	34	23/24	0.97	0.15	98,105,115,118	0

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3456	1/1	0.12	0.16	118,118,118,118	0
57	MG	1H	3347	1/1	0.14	0.12	113,113,113,113	0
57	MG	1H	3176	1/1	0.32	0.41	102,102,102,102	0
57	MG	13	1648	1/1	0.37	0.49	117,117,117,117	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3080	1/1	0.41	0.23	71,71,71,71	0
57	MG	14	3163	1/1	0.44	0.45	104,104,104,104	0
57	MG	1G	1620	1/1	0.45	0.63	93,93,93,93	0
57	MG	1G	1723	1/1	0.45	0.19	127,127,127,127	0
57	MG	14	3074	1/1	0.45	0.59	95,95,95,95	0
57	MG	1H	3452	1/1	0.46	0.10	115,115,115,115	0
57	MG	1H	3534	1/1	0.47	0.11	113,113,113,113	0
57	MG	1H	3421	1/1	0.47	0.38	93,93,93,93	0
57	MG	1G	1629	1/1	0.47	0.19	129,129,129,129	0
57	MG	1H	3493	1/1	0.47	0.16	106,106,106,106	0
57	MG	13	1715	1/1	0.50	0.17	119,119,119,119	0
57	MG	14	3153	1/1	0.50	0.23	123,123,123,123	0
57	MG	14	3199	1/1	0.51	0.55	99,99,99,99	0
57	MG	1H	3197	1/1	0.51	0.38	93,93,93,93	0
57	MG	14	3413	1/1	0.53	0.17	125,125,125,125	0
57	MG	1H	3525	1/1	0.53	0.19	99,99,99,99	0
57	MG	1G	1647	1/1	0.54	0.23	99,99,99,99	0
57	MG	1G	1698	1/1	0.54	0.07	138,138,138,138	0
57	MG	14	3165	1/1	0.54	0.67	97,97,97,97	0
57	MG	1H	3402	1/1	0.54	0.20	71,71,71,71	0
57	MG	1H	3506	1/1	0.54	0.25	103,103,103,103	0
57	MG	1H	3484	1/1	0.54	0.29	97,97,97,97	0
57	MG	13	1692	1/1	0.55	0.15	110,110,110,110	0
57	MG	14	3453	1/1	0.55	0.20	118,118,118,118	0
57	MG	13	1638	1/1	0.55	0.56	103,103,103,103	0
57	MG	13	1669	1/1	0.56	0.14	111,111,111,111	0
57	MG	1H	3514	1/1	0.56	0.13	112,112,112,112	0
57	MG	13	1728	1/1	0.56	0.09	117,117,117,117	0
57	MG	1H	3497	1/1	0.57	0.24	96,96,96,96	0
57	MG	1H	3166	1/1	0.58	0.23	67,67,67,67	0
57	MG	14	3194	1/1	0.58	0.50	84,84,84,84	0
57	MG	14	3135	1/1	0.59	0.38	112,112,112,112	0
57	MG	1H	3432	1/1	0.60	0.17	116,116,116,116	0
57	MG	1G	1711	1/1	0.60	0.06	156,156,156,156	0
57	MG	1H	3013	1/1	0.60	0.18	94,94,94,94	0
57	MG	1H	3062	1/1	0.60	0.17	64,64,64,64	0
57	MG	14	3079	1/1	0.60	0.47	86,86,86,86	0
57	MG	1J	209	1/1	0.60	0.07	131,131,131,131	0
57	MG	1H	3489	1/1	0.61	0.15	107,107,107,107	0
57	MG	1H	3167	1/1	0.61	0.48	86,86,86,86	0
57	MG	14	3177	1/1	0.61	0.46	81,81,81,81	0
57	MG	1H	3177	1/1	0.62	0.20	143,143,143,143	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	32	301	1/1	0.62	0.12	137,137,137,137	0
57	MG	14	3355	1/1	0.62	0.20	99,99,99,99	0
57	MG	14	3161	1/1	0.62	0.25	94,94,94,94	0
57	MG	1H	3180	1/1	0.62	0.34	81,81,81,81	0
57	MG	1G	1702	1/1	0.62	0.08	117,117,117,117	0
57	MG	13	1655	1/1	0.62	0.42	83,83,83,83	0
57	MG	1H	3536	1/1	0.63	0.17	104,104,104,104	0
57	MG	1H	3341	1/1	0.63	0.14	113,113,113,113	0
57	MG	13	1668	1/1	0.63	0.29	112,112,112,112	0
57	MG	1H	3371	1/1	0.63	0.15	88,88,88,88	0
57	MG	14	3333	1/1	0.63	0.19	97,97,97,97	0
57	MG	1H	3210	1/1	0.64	0.34	87,87,87,87	0
57	MG	16	206	1/1	0.64	0.24	83,83,83,83	0
57	MG	14	3429	1/1	0.64	0.31	109,109,109,109	0
57	MG	1H	3365	1/1	0.65	0.10	82,82,82,82	0
57	MG	1H	3071	1/1	0.65	0.25	101,101,101,101	0
57	MG	1H	3117	1/1	0.66	0.18	96,96,96,96	0
57	MG	13	1736	1/1	0.66	0.12	129,129,129,129	0
57	MG	1H	3085	1/1	0.66	0.34	79,79,79,79	0
57	MG	1H	3087	1/1	0.66	0.53	75,75,75,75	0
57	MG	1H	3509	1/1	0.67	0.36	114,114,114,114	0
57	MG	1H	3338	1/1	0.67	0.10	99,99,99,99	0
57	MG	1H	3055	1/1	0.67	0.27	62,62,62,62	0
57	MG	1H	3089	1/1	0.67	0.43	88,88,88,88	0
57	MG	1H	3173	1/1	0.67	0.32	77,77,77,77	0
57	MG	13	1667	1/1	0.67	0.15	104,104,104,104	0
57	MG	1H	3333	1/1	0.67	0.09	98,98,98,98	0
57	MG	1H	3335	1/1	0.67	0.09	83,83,83,83	0
57	MG	E5	101	1/1	0.67	0.66	99,99,99,99	0
57	MG	14	3138	1/1	0.68	0.45	91,91,91,91	0
57	MG	2K	103	1/1	0.68	0.18	88,88,88,88	0
57	MG	1H	3337	1/1	0.68	0.07	98,98,98,98	0
57	MG	13	1683	1/1	0.68	0.12	119,119,119,119	0
57	MG	1H	3213	1/1	0.68	0.22	83,83,83,83	0
57	MG	1H	3422	1/1	0.68	0.11	114,114,114,114	0
57	MG	14	3109	1/1	0.68	0.31	94,94,94,94	0
57	MG	1H	3175	1/1	0.68	0.37	73,73,73,73	0
57	MG	14	3141	1/1	0.69	0.20	85,85,85,85	0
57	MG	13	1666	1/1	0.69	0.24	98,98,98,98	0
57	MG	14	3399	1/1	0.69	0.09	122,122,122,122	0
57	MG	1H	3481	1/1	0.69	0.15	92,92,92,92	0
57	MG	14	3427	1/1	0.69	0.15	121,121,121,121	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	13	1642	1/1	0.69	0.30	95,95,95,95	0
57	MG	14	3431	1/1	0.69	0.17	107,107,107,107	0
57	MG	14	3103	1/1	0.69	0.53	80,80,80,80	0
57	MG	1G	1609	1/1	0.69	0.65	96,96,96,96	0
57	MG	1H	3008	1/1	0.69	0.28	81,81,81,81	0
57	MG	25	301	1/1	0.69	0.20	120,120,120,120	0
57	MG	1H	3433	1/1	0.69	0.10	98,98,98,98	0
57	MG	14	3027	1/1	0.70	0.08	85,85,85,85	0
57	MG	13	1719	1/1	0.70	0.07	118,118,118,118	0
57	MG	13	1740	1/1	0.70	0.14	162,162,162,162	0
57	MG	1G	1704	1/1	0.70	0.21	127,127,127,127	0
57	MG	1H	3124	1/1	0.70	0.36	90,90,90,90	0
57	MG	1G	1638	1/1	0.70	0.34	119,119,119,119	0
57	MG	1H	3152	1/1	0.70	0.28	87,87,87,87	0
57	MG	14	3133	1/1	0.71	0.93	89,89,89,89	0
57	MG	14	3222	1/1	0.71	0.18	73,73,73,73	0
57	MG	1H	3535	1/1	0.71	0.20	110,110,110,110	0
57	MG	14	3010	1/1	0.71	0.23	84,84,84,84	0
57	MG	14	3173	1/1	0.71	0.26	90,90,90,90	0
57	MG	1G	1701	1/1	0.71	0.12	115,115,115,115	0
57	MG	1G	1634	1/1	0.71	0.39	98,98,98,98	0
57	MG	1G	1643	1/1	0.72	0.10	100,100,100,100	0
57	MG	14	3446	1/1	0.72	0.07	118,118,118,118	0
57	MG	1H	3537	1/1	0.72	0.11	112,112,112,112	0
57	MG	14	3455	1/1	0.72	0.37	115,115,115,115	0
57	MG	13	1684	1/1	0.72	0.10	105,105,105,105	0
57	MG	14	3423	1/1	0.72	0.18	118,118,118,118	0
57	MG	P8	101	1/1	0.72	0.46	76,76,76,76	0
57	MG	1H	3326	1/1	0.72	0.10	109,109,109,109	0
57	MG	14	3185	1/1	0.73	0.24	93,93,93,93	0
57	MG	14	3187	1/1	0.73	0.46	106,106,106,106	0
57	MG	1H	3408	1/1	0.73	0.10	87,87,87,87	0
57	MG	1H	3459	1/1	0.73	0.16	88,88,88,88	0
57	MG	1H	3364	1/1	0.73	0.12	85,85,85,85	0
57	MG	1H	3169	1/1	0.73	0.27	91,91,91,91	0
57	MG	1H	3241	1/1	0.73	0.20	82,82,82,82	0
57	MG	14	3377	1/1	0.73	0.12	72,72,72,72	0
57	MG	14	3457	1/1	0.73	0.09	134,134,134,134	0
57	MG	14	3175	1/1	0.73	0.54	100,100,100,100	0
57	MG	14	3406	1/1	0.73	0.17	121,121,121,121	0
57	MG	13	1610	1/1	0.73	0.56	81,81,81,81	0
57	MG	13	1678	1/1	0.74	0.17	114,114,114,114	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3090	1/1	0.74	0.27	82,82,82,82	0
57	MG	1H	3232	1/1	0.74	0.38	100,100,100,100	0
57	MG	1G	1706	1/1	0.74	0.05	138,138,138,138	0
57	MG	1H	3552	1/1	0.74	0.22	113,113,113,113	0
57	MG	1H	3519	1/1	0.74	0.16	104,104,104,104	0
57	MG	14	3388	1/1	0.74	0.13	72,72,72,72	0
57	MG	1H	3237	1/1	0.74	0.56	85,85,85,85	0
57	MG	14	3179	1/1	0.74	0.30	103,103,103,103	0
57	MG	39	301	1/1	0.74	0.17	80,80,80,80	0
57	MG	1G	1662	1/1	0.74	0.11	118,118,118,118	0
57	MG	1H	3504	1/1	0.74	0.29	104,104,104,104	0
57	MG	1H	3221	1/1	0.75	0.38	81,81,81,81	0
57	MG	1H	3279	1/1	0.75	0.12	68,68,68,68	0
57	MG	1H	3050	1/1	0.75	0.35	85,85,85,85	0
57	MG	13	1654	1/1	0.75	0.34	85,85,85,85	0
57	MG	14	3437	1/1	0.75	0.11	111,111,111,111	0
57	MG	14	3154	1/1	0.75	0.33	78,78,78,78	0
57	MG	1G	1712	1/1	0.75	0.29	110,110,110,110	0
57	MG	1H	3182	1/1	0.76	0.17	108,108,108,108	0
57	MG	14	3392	1/1	0.76	0.15	98,98,98,98	0
57	MG	1H	3147	1/1	0.76	0.39	125,125,125,125	0
57	MG	1H	3077	1/1	0.76	0.42	76,76,76,76	0
57	MG	14	3081	1/1	0.76	0.17	79,79,79,79	0
57	MG	1H	3325	1/1	0.76	0.10	88,88,88,88	0
57	MG	14	3425	1/1	0.76	0.28	106,106,106,106	0
57	MG	13	1675	1/1	0.76	0.16	91,91,91,91	0
57	MG	14	3115	1/1	0.76	0.45	78,78,78,78	0
57	MG	14	3128	1/1	0.76	0.35	88,88,88,88	0
57	MG	1H	3540	1/1	0.76	0.45	110,110,110,110	0
57	MG	1H	3215	1/1	0.76	0.45	94,94,94,94	0
57	MG	1G	1724	1/1	0.76	0.06	126,126,126,126	0
57	MG	1H	3086	1/1	0.76	0.29	67,67,67,67	0
57	MG	14	3255	1/1	0.76	0.12	110,110,110,110	0
57	MG	14	3301	1/1	0.76	0.11	89,89,89,89	0
57	MG	1J	207	1/1	0.76	0.09	119,119,119,119	0
57	MG	14	3144	1/1	0.76	0.40	84,84,84,84	0
57	MG	14	3341	1/1	0.76	0.32	78,78,78,78	0
57	MG	1G	1684	1/1	0.76	0.07	109,109,109,109	0
57	MG	13	1712	1/1	0.76	0.07	106,106,106,106	0
57	MG	1H	3369	1/1	0.77	0.27	90,90,90,90	0
57	MG	1H	3227	1/1	0.77	0.20	90,90,90,90	0
57	MG	1H	3498	1/1	0.77	0.08	113,113,113,113	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3198	1/1	0.77	0.30	88,88,88,88	0
57	MG	14	3145	1/1	0.77	0.39	71,71,71,71	0
57	MG	1H	3181	1/1	0.77	0.35	98,98,98,98	0
57	MG	1H	3170	1/1	0.77	0.23	80,80,80,80	0
57	MG	14	3159	1/1	0.77	0.27	80,80,80,80	0
57	MG	1H	3411	1/1	0.77	0.17	95,95,95,95	0
57	MG	14	3339	1/1	0.77	0.05	106,106,106,106	0
57	MG	1G	1720	1/1	0.77	0.10	135,135,135,135	0
57	MG	1H	3510	1/1	0.77	0.07	104,104,104,104	0
57	MG	13	1723	1/1	0.77	0.12	118,118,118,118	0
57	MG	14	3130	1/1	0.77	0.28	92,92,92,92	0
57	MG	88	202	1/1	0.77	0.31	71,71,71,71	0
57	MG	1H	3208	1/1	0.77	0.19	69,69,69,69	0
57	MG	14	3183	1/1	0.77	0.45	88,88,88,88	0
57	MG	14	3451	1/1	0.78	0.34	110,110,110,110	0
57	MG	13	1629	1/1	0.78	0.31	100,100,100,100	0
57	MG	1H	3162	1/1	0.78	0.61	92,92,92,92	0
57	MG	13	1649	1/1	0.78	0.18	83,83,83,83	0
57	MG	2L	102	1/1	0.78	0.17	126,126,126,126	0
57	MG	14	3087	1/1	0.78	0.18	75,75,75,75	0
57	MG	1J	208	1/1	0.78	0.17	124,124,124,124	0
57	MG	14	3379	1/1	0.78	0.12	107,107,107,107	0
57	MG	1H	3235	1/1	0.78	0.22	96,96,96,96	0
57	MG	14	3300	1/1	0.78	0.08	86,86,86,86	0
57	MG	1H	3494	1/1	0.78	0.20	87,87,87,87	0
57	MG	1G	1611	1/1	0.79	0.62	84,84,84,84	0
57	MG	14	3140	1/1	0.79	0.32	89,89,89,89	0
57	MG	13	1699	1/1	0.79	0.19	114,114,114,114	0
57	MG	13	1735	1/1	0.79	0.13	105,105,105,105	0
57	MG	1H	3399	1/1	0.79	0.07	109,109,109,109	0
57	MG	1H	3543	1/1	0.79	0.12	166,166,166,166	0
57	MG	13	1709	1/1	0.79	0.05	128,128,128,128	0
57	MG	14	3430	1/1	0.79	0.22	102,102,102,102	0
57	MG	14	3158	1/1	0.79	0.26	84,84,84,84	0
57	MG	1H	3142	1/1	0.79	0.48	87,87,87,87	0
57	MG	13	1621	1/1	0.79	0.48	94,94,94,94	0
57	MG	14	3450	1/1	0.79	0.31	116,116,116,116	0
57	MG	14	3116	1/1	0.79	0.21	77,77,77,77	0
57	MG	14	3124	1/1	0.79	0.35	64,64,64,64	0
57	MG	14	3351	1/1	0.79	0.10	101,101,101,101	0
57	MG	1G	1667	1/1	0.79	0.21	111,111,111,111	0
57	MG	1H	3502	1/1	0.79	0.12	90,90,90,90	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1G	1605	1/1	0.79	0.32	109,109,109,109	0
57	MG	14	3383	1/1	0.79	0.13	91,91,91,91	0
57	MG	14	3384	1/1	0.79	0.09	88,88,88,88	0
57	MG	14	3134	1/1	0.79	0.70	99,99,99,99	0
57	MG	1H	3415	1/1	0.79	0.13	95,95,95,95	0
57	MG	14	3397	1/1	0.79	0.07	162,162,162,162	0
57	MG	1H	3010	1/1	0.80	0.37	87,87,87,87	0
57	MG	1G	1650	1/1	0.80	0.23	111,111,111,111	0
57	MG	1G	1659	1/1	0.80	0.10	120,120,120,120	0
57	MG	1H	3217	1/1	0.80	0.39	79,79,79,79	0
57	MG	14	3400	1/1	0.80	0.08	135,135,135,135	0
57	MG	13	1700	1/1	0.80	0.06	110,110,110,110	0
57	MG	1H	3548	1/1	0.80	0.42	98,98,98,98	0
57	MG	14	3422	1/1	0.80	0.11	104,104,104,104	0
57	MG	1G	1696	1/1	0.80	0.10	109,109,109,109	0
57	MG	1G	1697	1/1	0.80	0.09	125,125,125,125	0
57	MG	1H	3551	1/1	0.80	0.11	86,86,86,86	0
57	MG	1H	3042	1/1	0.80	0.28	67,67,67,67	0
57	MG	1H	3157	1/1	0.80	0.45	89,89,89,89	0
57	MG	21	302	1/1	0.80	0.34	85,85,85,85	0
57	MG	1H	3048	1/1	0.80	0.14	68,68,68,68	0
57	MG	13	1618	1/1	0.80	0.27	72,72,72,72	0
57	MG	13	1727	1/1	0.80	0.07	124,124,124,124	0
57	MG	1H	3513	1/1	0.80	0.14	104,104,104,104	0
57	MG	1H	3456	1/1	0.80	0.15	92,92,92,92	0
57	MG	1H	3246	1/1	0.80	0.17	54,54,54,54	0
57	MG	1H	3110	1/1	0.80	0.34	86,86,86,86	0
57	MG	1G	1633	1/1	0.80	0.12	102,102,102,102	0
57	MG	14	3008	1/1	0.80	0.15	73,73,73,73	0
57	MG	14	3375	1/1	0.80	0.39	116,116,116,116	0
57	MG	13	1718	1/1	0.80	0.04	130,130,130,130	0
57	MG	1J	210	1/1	0.80	0.08	135,135,135,135	0
57	MG	1H	3401	1/1	0.80	0.14	99,99,99,99	0
57	MG	14	3160	1/1	0.80	0.45	85,85,85,85	0
57	MG	13	1734	1/1	0.80	0.10	143,143,143,143	0
57	MG	14	3395	1/1	0.81	0.21	98,98,98,98	0
57	MG	1H	3160	1/1	0.81	0.23	79,79,79,79	0
57	MG	1G	1613	1/1	0.81	0.95	93,93,93,93	0
57	MG	1H	3313	1/1	0.81	0.12	62,62,62,62	0
57	MG	14	3210	1/1	0.81	0.09	78,78,78,78	0
57	MG	1H	3172	1/1	0.81	0.23	64,64,64,64	0
57	MG	14	3238	1/1	0.81	0.10	67,67,67,67	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3222	1/1	0.81	0.45	86,86,86,86	0
57	MG	14	3259	1/1	0.81	0.13	97,97,97,97	0
57	MG	14	3267	1/1	0.81	0.07	119,119,119,119	0
57	MG	1H	3436	1/1	0.81	0.10	87,87,87,87	0
57	MG	1H	3383	1/1	0.81	0.16	74,74,74,74	0
57	MG	14	3324	1/1	0.81	0.09	90,90,90,90	0
57	MG	14	3328	1/1	0.81	0.10	95,95,95,95	0
57	MG	1H	3391	1/1	0.81	0.41	90,90,90,90	0
57	MG	14	3448	1/1	0.81	0.10	120,120,120,120	0
57	MG	16	204	1/1	0.81	0.20	89,89,89,89	0
57	MG	1H	3194	1/1	0.81	0.37	80,80,80,80	0
57	MG	1G	1658	1/1	0.81	0.08	97,97,97,97	0
57	MG	14	3454	1/1	0.81	0.12	108,108,108,108	0
57	MG	14	3166	1/1	0.81	0.34	95,95,95,95	0
57	MG	14	3356	1/1	0.81	0.21	78,78,78,78	0
57	MG	1H	3161	1/1	0.81	0.35	77,77,77,77	0
57	MG	1J	205	1/1	0.81	0.12	101,101,101,101	0
57	MG	52	300	1/1	0.81	0.12	133,133,133,133	0
57	MG	1H	3012	1/1	0.81	0.23	81,81,81,81	0
57	MG	14	3381	1/1	0.81	0.07	136,136,136,136	0
57	MG	1H	3065	1/1	0.81	0.16	72,72,72,72	0
57	MG	14	3137	1/1	0.81	0.34	76,76,76,76	0
57	MG	1H	3111	1/1	0.81	0.33	94,94,94,94	0
57	MG	1H	3159	1/1	0.81	0.41	95,95,95,95	0
57	MG	1H	3264	1/1	0.82	0.19	55,55,55,55	0
57	MG	1H	3107	1/1	0.82	0.35	62,62,62,62	0
57	MG	14	3428	1/1	0.82	0.05	110,110,110,110	0
57	MG	1H	3477	1/1	0.82	0.18	91,91,91,91	0
57	MG	13	1641	1/1	0.82	0.45	79,79,79,79	0
57	MG	14	3114	1/1	0.82	0.18	77,77,77,77	0
57	MG	14	3364	1/1	0.82	0.08	98,98,98,98	0
57	MG	13	1663	1/1	0.82	0.11	77,77,77,77	0
57	MG	1H	3156	1/1	0.82	0.33	106,106,106,106	0
57	MG	1H	3512	1/1	0.82	0.29	100,100,100,100	0
57	MG	14	3225	1/1	0.82	0.16	79,79,79,79	0
57	MG	1H	3492	1/1	0.82	0.16	107,107,107,107	0
57	MG	14	3250	1/1	0.82	0.11	84,84,84,84	0
57	MG	14	3162	1/1	0.82	0.26	91,91,91,91	0
57	MG	14	3257	1/1	0.82	0.19	118,118,118,118	0
57	MG	14	3009	1/1	0.82	0.28	77,77,77,77	0
57	MG	1J	204	1/1	0.82	0.10	102,102,102,102	0
57	MG	1H	3060	1/1	0.82	0.54	90,90,90,90	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3276	1/1	0.82	0.08	85,85,85,85	0
57	MG	1H	3403	1/1	0.82	0.07	68,68,68,68	0
57	MG	14	3068	1/1	0.82	0.47	78,78,78,78	0
57	MG	1H	3007	1/1	0.82	0.24	57,57,57,57	0
57	MG	14	3414	1/1	0.82	0.11	99,99,99,99	0
57	MG	1H	3531	1/1	0.82	0.13	114,114,114,114	0
57	MG	1H	3533	1/1	0.82	0.33	99,99,99,99	0
57	MG	1H	3133	1/1	0.83	0.13	72,72,72,72	0
57	MG	1H	3165	1/1	0.83	0.23	85,85,85,85	0
57	MG	1G	1707	1/1	0.83	0.08	115,115,115,115	0
57	MG	1H	3188	1/1	0.83	0.35	88,88,88,88	0
57	MG	1H	3137	1/1	0.83	0.37	67,67,67,67	0
57	MG	1H	3091	1/1	0.83	0.64	77,77,77,77	0
57	MG	14	3315	1/1	0.83	0.10	83,83,83,83	0
57	MG	14	3095	1/1	0.83	0.31	72,72,72,72	0
57	MG	14	3100	1/1	0.83	0.25	77,77,77,77	0
57	MG	1H	3373	1/1	0.83	0.21	79,79,79,79	0
57	MG	14	3404	1/1	0.83	0.07	121,121,121,121	0
57	MG	1G	1664	1/1	0.83	0.14	82,82,82,82	0
57	MG	1H	3413	1/1	0.83	0.33	93,93,93,93	0
57	MG	1G	1624	1/1	0.83	0.22	103,103,103,103	0
57	MG	1H	3462	1/1	0.83	0.06	99,99,99,99	0
57	MG	1G	1631	1/1	0.83	0.10	103,103,103,103	0
57	MG	14	3424	1/1	0.83	0.12	117,117,117,117	0
57	MG	14	3360	1/1	0.83	0.16	107,107,107,107	0
57	MG	1H	3532	1/1	0.83	0.47	79,79,79,79	0
57	MG	13	1720	1/1	0.83	0.06	121,121,121,121	0
57	MG	13	1623	1/1	0.83	0.20	70,70,70,70	0
57	MG	1H	3460	1/1	0.84	0.28	85,85,85,85	0
57	MG	1H	3281	1/1	0.84	0.07	85,85,85,85	0
57	MG	1H	3412	1/1	0.84	0.07	90,90,90,90	0
57	MG	13	1645	1/1	0.84	0.21	117,117,117,117	0
57	MG	1H	3168	1/1	0.84	0.18	89,89,89,89	0
57	MG	14	3262	1/1	0.84	0.10	104,104,104,104	0
57	MG	14	3264	1/1	0.84	0.14	88,88,88,88	0
57	MG	1H	3418	1/1	0.84	0.15	122,122,122,122	0
57	MG	14	3024	1/1	0.84	0.14	88,88,88,88	0
57	MG	14	3025	1/1	0.84	0.24	78,78,78,78	0
57	MG	1H	3528	1/1	0.84	0.12	117,117,117,117	0
57	MG	14	3053	1/1	0.84	0.93	82,82,82,82	0
57	MG	1G	1682	1/1	0.84	0.09	123,123,123,123	0
57	MG	14	3071	1/1	0.84	0.15	82,82,82,82	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3491	1/1	0.84	0.23	100,100,100,100	0
57	MG	1G	1685	1/1	0.84	0.07	129,129,129,129	0
57	MG	14	3439	1/1	0.84	0.24	100,100,100,100	0
57	MG	14	3445	1/1	0.84	0.12	119,119,119,119	0
57	MG	1H	3053	1/1	0.84	0.14	47,47,47,47	0
57	MG	1G	1612	1/1	0.84	0.11	103,103,103,103	0
57	MG	2K	101	1/1	0.84	0.13	80,80,80,80	0
57	MG	1G	1615	1/1	0.84	0.15	89,89,89,89	0
57	MG	1H	3056	1/1	0.84	0.47	86,86,86,86	0
57	MG	1H	3057	1/1	0.84	0.43	71,71,71,71	0
57	MG	14	3372	1/1	0.84	0.18	112,112,112,112	0
57	MG	14	3373	1/1	0.84	0.19	94,94,94,94	0
57	MG	1G	1628	1/1	0.84	0.23	123,123,123,123	0
57	MG	13	1647	1/1	0.84	0.38	99,99,99,99	0
57	MG	1G	1710	1/1	0.84	0.08	113,113,113,113	0
57	MG	1H	3501	1/1	0.84	0.07	108,108,108,108	0
57	MG	14	3117	1/1	0.84	0.34	69,69,69,69	0
57	MG	13	1617	1/1	0.84	0.37	69,69,69,69	0
57	MG	1H	3454	1/1	0.84	0.14	104,104,104,104	0
57	MG	1G	1722	1/1	0.84	0.20	116,116,116,116	0
57	MG	13	1738	1/1	0.84	0.05	138,138,138,138	0
57	MG	1H	3103	1/1	0.84	0.15	64,64,64,64	0
57	MG	14	3211	1/1	0.85	0.09	67,67,67,67	0
57	MG	42	202	1/1	0.85	0.26	115,115,115,115	0
57	MG	1G	1654	1/1	0.85	0.21	102,102,102,102	0
57	MG	1H	3072	1/1	0.85	0.12	60,60,60,60	0
57	MG	4L	101	1/1	0.85	0.43	102,102,102,102	0
57	MG	1H	3505	1/1	0.85	0.17	112,112,112,112	0
57	MG	13	1741	1/1	0.85	0.11	95,95,95,95	0
57	MG	1H	3059	1/1	0.85	0.14	72,72,72,72	0
57	MG	14	3019	1/1	0.85	0.35	131,131,131,131	0
57	MG	1H	3238	1/1	0.85	0.38	102,102,102,102	0
57	MG	14	3265	1/1	0.85	0.07	100,100,100,100	0
57	MG	1H	3466	1/1	0.85	0.09	103,103,103,103	0
57	MG	1H	3475	1/1	0.85	0.05	99,99,99,99	0
57	MG	14	3284	1/1	0.85	0.29	107,107,107,107	0
57	MG	14	3045	1/1	0.85	0.23	72,72,72,72	0
57	MG	13	1725	1/1	0.85	0.05	99,99,99,99	0
57	MG	1H	3014	1/1	0.85	0.42	86,86,86,86	0
57	MG	14	3069	1/1	0.85	0.22	56,56,56,56	0
57	MG	1H	3154	1/1	0.85	0.43	67,67,67,67	0
57	MG	14	3072	1/1	0.85	0.26	88,88,88,88	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3487	1/1	0.85	0.04	108,108,108,108	0
57	MG	1H	3488	1/1	0.85	0.19	84,84,84,84	0
57	MG	1H	3277	1/1	0.85	0.14	79,79,79,79	0
57	MG	1H	3216	1/1	0.85	0.36	79,79,79,79	0
57	MG	14	3452	1/1	0.85	0.24	122,122,122,122	0
57	MG	1H	3026	1/1	0.85	0.15	82,82,82,82	0
57	MG	14	3089	1/1	0.85	0.23	73,73,73,73	0
57	MG	1H	3119	1/1	0.85	0.23	79,79,79,79	0
57	MG	14	3371	1/1	0.85	0.10	108,108,108,108	0
57	MG	1H	3384	1/1	0.85	0.10	59,59,59,59	0
57	MG	1H	3184	1/1	0.85	0.64	100,100,100,100	0
57	MG	13	1646	1/1	0.85	0.52	91,91,91,91	0
57	MG	1H	3541	1/1	0.85	0.20	109,109,109,109	0
57	MG	1G	1642	1/1	0.85	0.70	100,100,100,100	0
57	MG	1H	3500	1/1	0.85	0.10	90,90,90,90	0
57	MG	1H	3229	1/1	0.85	0.11	84,84,84,84	0
57	MG	14	3203	1/1	0.85	0.31	95,95,95,95	0
57	MG	14	3204	1/1	0.85	0.13	120,120,120,120	0
57	MG	1H	3455	1/1	0.85	0.08	120,120,120,120	0
57	MG	14	3337	1/1	0.86	0.06	116,116,116,116	0
57	MG	1G	1688	1/1	0.86	0.09	123,123,123,123	0
57	MG	1H	3360	1/1	0.86	0.13	102,102,102,102	0
57	MG	14	3345	1/1	0.86	0.15	100,100,100,100	0
57	MG	14	3094	1/1	0.86	0.44	100,100,100,100	0
57	MG	1H	3523	1/1	0.86	0.17	102,102,102,102	0
57	MG	14	3215	1/1	0.86	0.08	98,98,98,98	0
57	MG	1H	3410	1/1	0.86	0.17	108,108,108,108	0
57	MG	1H	3126	1/1	0.86	0.20	71,71,71,71	0
57	MG	14	3434	1/1	0.86	0.32	110,110,110,110	0
57	MG	14	3367	1/1	0.86	0.10	101,101,101,101	0
57	MG	1H	3185	1/1	0.86	0.29	76,76,76,76	0
57	MG	88	203	1/1	0.86	0.32	83,83,83,83	0
57	MG	1H	3129	1/1	0.86	0.12	85,85,85,85	0
57	MG	1H	3131	1/1	0.86	0.14	101,101,101,101	0
57	MG	13	1724	1/1	0.86	0.17	116,116,116,116	0
57	MG	13	1650	1/1	0.86	0.38	85,85,85,85	0
57	MG	14	3380	1/1	0.86	0.12	106,106,106,106	0
57	MG	14	3126	1/1	0.86	0.18	89,89,89,89	0
57	MG	1H	3092	1/1	0.86	0.18	67,67,67,67	0
57	MG	1H	3427	1/1	0.86	0.24	102,102,102,102	0
57	MG	1H	3146	1/1	0.86	0.42	85,85,85,85	0
57	MG	14	3181	1/1	0.86	0.45	91,91,91,91	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3073	1/1	0.86	0.35	84,84,84,84	0
57	MG	1G	1672	1/1	0.86	0.04	117,117,117,117	0
57	MG	14	3306	1/1	0.86	0.17	93,93,93,93	0
57	MG	14	3078	1/1	0.86	0.23	88,88,88,88	0
57	MG	1H	3122	1/1	0.86	0.39	80,80,80,80	0
57	MG	14	3405	1/1	0.86	0.05	118,118,118,118	0
57	MG	13	1716	1/1	0.86	0.12	116,116,116,116	0
57	MG	1H	3271	1/1	0.86	0.14	84,84,84,84	0
57	MG	14	3336	1/1	0.86	0.09	109,109,109,109	0
57	MG	E5	102	1/1	0.86	0.28	68,68,68,68	0
60	SPE	1G	1725	13/13	0.86	0.09	110,113,117,118	0
57	MG	1H	3458	1/1	0.87	0.13	89,89,89,89	0
57	MG	14	3143	1/1	0.87	0.31	93,93,93,93	0
57	MG	1H	3193	1/1	0.87	0.72	89,89,89,89	0
57	MG	1G	1687	1/1	0.87	0.14	111,111,111,111	0
57	MG	1H	3354	1/1	0.87	0.17	78,78,78,78	0
57	MG	14	3065	1/1	0.87	0.32	70,70,70,70	0
57	MG	13	1627	1/1	0.87	0.17	94,94,94,94	0
57	MG	1G	1621	1/1	0.87	0.46	105,105,105,105	0
57	MG	14	3417	1/1	0.87	0.07	117,117,117,117	0
57	MG	14	3305	1/1	0.87	0.17	64,64,64,64	0
57	MG	1H	3362	1/1	0.87	0.13	78,78,78,78	0
57	MG	1G	1699	1/1	0.87	0.15	113,113,113,113	0
57	MG	1H	3044	1/1	0.87	0.48	80,80,80,80	0
57	MG	1H	3301	1/1	0.87	0.18	86,86,86,86	0
57	MG	1G	1703	1/1	0.87	0.10	107,107,107,107	0
57	MG	1H	3311	1/1	0.87	0.10	91,91,91,91	0
57	MG	1H	3370	1/1	0.87	0.15	80,80,80,80	0
57	MG	1H	3093	1/1	0.87	0.31	73,73,73,73	0
57	MG	1H	3135	1/1	0.87	0.31	73,73,73,73	0
57	MG	14	3436	1/1	0.87	0.04	136,136,136,136	0
57	MG	1H	3211	1/1	0.87	0.36	69,69,69,69	0
57	MG	16	210	1/1	0.87	0.36	86,86,86,86	0
57	MG	14	3443	1/1	0.87	0.34	115,115,115,115	0
57	MG	14	3097	1/1	0.87	0.09	84,84,84,84	0
57	MG	1G	1718	1/1	0.87	0.10	124,124,124,124	0
57	MG	14	3359	1/1	0.87	0.10	122,122,122,122	0
57	MG	13	1640	1/1	0.87	0.10	97,97,97,97	0
57	MG	1G	1721	1/1	0.87	0.06	128,128,128,128	0
57	MG	1G	1648	1/1	0.87	0.27	121,121,121,121	0
57	MG	1G	1649	1/1	0.87	0.82	96,96,96,96	0
57	MG	31	301	1/1	0.87	0.15	70,70,70,70	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1G	1651	1/1	0.87	0.29	97,97,97,97	0
57	MG	88	201	1/1	0.87	0.20	83,83,83,83	0
57	MG	1G	1656	1/1	0.87	0.10	89,89,89,89	0
57	MG	1H	3158	1/1	0.87	0.24	71,71,71,71	0
57	MG	1H	3138	1/1	0.87	0.18	98,98,98,98	0
57	MG	14	3007	1/1	0.87	0.28	61,61,61,61	0
57	MG	1H	3530	1/1	0.87	0.55	99,99,99,99	0
57	MG	1H	3074	1/1	0.87	0.25	75,75,75,75	0
57	MG	1G	1606	1/1	0.87	0.25	87,87,87,87	0
57	MG	14	3390	1/1	0.87	0.09	73,73,73,73	0
57	MG	14	3391	1/1	0.87	0.15	87,87,87,87	0
57	MG	13	1705	1/1	0.87	0.12	108,108,108,108	0
57	MG	14	3394	1/1	0.87	0.30	91,91,91,91	0
57	MG	1H	3346	1/1	0.87	0.10	75,75,75,75	0
57	MG	1G	1675	1/1	0.88	0.12	86,86,86,86	0
57	MG	14	3243	1/1	0.88	0.18	93,93,93,93	0
57	MG	1G	1678	1/1	0.88	0.16	98,98,98,98	0
57	MG	1H	3075	1/1	0.88	0.21	75,75,75,75	0
57	MG	1H	3485	1/1	0.88	0.18	102,102,102,102	0
57	MG	1H	3284	1/1	0.88	0.10	62,62,62,62	0
57	MG	1H	3299	1/1	0.88	0.19	105,105,105,105	0
57	MG	13	1680	1/1	0.88	0.12	89,89,89,89	0
57	MG	14	3047	1/1	0.88	0.12	87,87,87,87	0
57	MG	1G	1695	1/1	0.88	0.13	126,126,126,126	0
57	MG	14	3268	1/1	0.88	0.16	89,89,89,89	0
57	MG	14	3274	1/1	0.88	0.15	62,62,62,62	0
57	MG	14	3275	1/1	0.88	0.14	85,85,85,85	0
57	MG	1H	3490	1/1	0.88	0.08	95,95,95,95	0
57	MG	14	3148	1/1	0.88	0.18	113,113,113,113	0
57	MG	14	3295	1/1	0.88	0.11	88,88,88,88	0
57	MG	1H	3309	1/1	0.88	0.07	73,73,73,73	0
57	MG	1H	3094	1/1	0.88	0.23	64,64,64,64	0
57	MG	14	3156	1/1	0.88	0.29	81,81,81,81	0
57	MG	1H	3231	1/1	0.88	0.08	103,103,103,103	0
57	MG	14	3314	1/1	0.88	0.19	78,78,78,78	0
57	MG	1H	3127	1/1	0.88	0.19	69,69,69,69	0
57	MG	14	3073	1/1	0.88	0.43	61,61,61,61	0
57	MG	1H	3434	1/1	0.88	0.14	96,96,96,96	0
57	MG	1H	3542	1/1	0.88	0.07	103,103,103,103	0
57	MG	14	3335	1/1	0.88	0.09	94,94,94,94	0
57	MG	1H	3067	1/1	0.88	0.12	55,55,55,55	0
57	MG	1H	3444	1/1	0.88	0.24	72,72,72,72	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3445	1/1	0.88	0.33	87,87,87,87	0
57	MG	14	3169	1/1	0.88	0.15	88,88,88,88	0
57	MG	14	3086	1/1	0.88	0.27	73,73,73,73	0
57	MG	14	3347	1/1	0.88	0.14	97,97,97,97	0
57	MG	1H	3068	1/1	0.88	0.22	66,66,66,66	0
57	MG	1H	3334	1/1	0.88	0.18	103,103,103,103	0
57	MG	1H	3398	1/1	0.88	0.07	86,86,86,86	0
57	MG	16	209	1/1	0.88	0.07	86,86,86,86	0
57	MG	1H	3108	1/1	0.88	0.36	68,68,68,68	0
57	MG	1H	3400	1/1	0.88	0.10	79,79,79,79	0
57	MG	21	303	1/1	0.88	0.12	61,61,61,61	0
57	MG	1H	3058	1/1	0.88	0.07	68,68,68,68	0
57	MG	14	3196	1/1	0.88	0.46	85,85,85,85	0
57	MG	13	1739	1/1	0.88	0.16	119,119,119,119	0
57	MG	1H	3339	1/1	0.88	0.06	99,99,99,99	0
57	MG	13	1690	1/1	0.88	0.10	117,117,117,117	0
57	MG	1G	1663	1/1	0.88	0.21	112,112,112,112	0
57	MG	14	3123	1/1	0.88	0.32	75,75,75,75	0
57	MG	1H	3140	1/1	0.88	0.20	90,90,90,90	0
57	MG	1H	3141	1/1	0.88	0.15	75,75,75,75	0
57	MG	1G	1670	1/1	0.88	0.16	109,109,109,109	0
57	MG	13	1662	1/1	0.88	0.43	90,90,90,90	0
57	MG	1G	1693	1/1	0.89	0.10	121,121,121,121	0
57	MG	14	3011	1/1	0.89	0.57	76,76,76,76	0
57	MG	1G	1636	1/1	0.89	0.35	87,87,87,87	0
57	MG	14	3415	1/1	0.89	0.26	93,93,93,93	0
57	MG	1H	3064	1/1	0.89	0.28	82,82,82,82	0
57	MG	14	3421	1/1	0.89	0.23	96,96,96,96	0
57	MG	14	3195	1/1	0.89	0.36	98,98,98,98	0
57	MG	1G	1639	1/1	0.89	0.68	90,90,90,90	0
57	MG	1H	3473	1/1	0.89	0.13	98,98,98,98	0
57	MG	13	1656	1/1	0.89	0.27	107,107,107,107	0
57	MG	14	3344	1/1	0.89	0.07	104,104,104,104	0
57	MG	1H	3212	1/1	0.89	0.08	87,87,87,87	0
57	MG	1H	3136	1/1	0.89	0.20	63,63,63,63	0
57	MG	1H	3420	1/1	0.89	0.22	94,94,94,94	0
57	MG	1H	3243	1/1	0.89	0.10	63,63,63,63	0
57	MG	13	1660	1/1	0.89	0.51	91,91,91,91	0
57	MG	1G	1652	1/1	0.89	0.18	105,105,105,105	0
57	MG	1H	3379	1/1	0.89	0.13	87,87,87,87	0
57	MG	1H	3123	1/1	0.89	0.26	68,68,68,68	0
57	MG	1H	3270	1/1	0.89	0.14	78,78,78,78	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3385	1/1	0.89	0.19	94,94,94,94	0
57	MG	1H	3187	1/1	0.89	0.28	83,83,83,83	0
57	MG	1H	3394	1/1	0.89	0.20	83,83,83,83	0
57	MG	13	1653	1/1	0.89	0.12	95,95,95,95	0
57	MG	14	3082	1/1	0.89	0.41	80,80,80,80	0
57	MG	13	1672	1/1	0.89	0.30	92,92,92,92	0
57	MG	1H	3538	1/1	0.89	0.07	107,107,107,107	0
57	MG	13	1691	1/1	0.89	0.09	107,107,107,107	0
57	MG	14	3382	1/1	0.89	0.08	116,116,116,116	0
57	MG	42	201	1/1	0.89	0.27	107,107,107,107	0
57	MG	14	3270	1/1	0.89	0.19	74,74,74,74	0
57	MG	1J	203	1/1	0.89	0.23	92,92,92,92	0
57	MG	1H	3196	1/1	0.89	0.22	103,103,103,103	0
57	MG	13	1633	1/1	0.89	0.13	82,82,82,82	0
57	MG	13	1651	1/1	0.89	0.22	118,118,118,118	0
57	MG	14	3102	1/1	0.89	0.28	94,94,94,94	0
57	MG	14	3167	1/1	0.89	0.07	95,95,95,95	0
57	MG	1H	3358	1/1	0.89	0.07	100,100,100,100	0
57	MG	14	3104	1/1	0.89	0.25	89,89,89,89	0
57	MG	1H	3306	1/1	0.89	0.11	79,79,79,79	0
57	MG	14	3113	1/1	0.89	0.34	74,74,74,74	0
57	MG	1H	3308	1/1	0.89	0.14	62,62,62,62	0
57	MG	1H	3463	1/1	0.89	0.12	70,70,70,70	0
57	MG	13	1685	1/1	0.90	0.07	79,79,79,79	0
57	MG	14	3389	1/1	0.90	0.18	72,72,72,72	0
57	MG	13	1689	1/1	0.90	0.22	98,98,98,98	0
57	MG	14	3263	1/1	0.90	0.13	86,86,86,86	0
57	MG	1H	3499	1/1	0.90	0.27	89,89,89,89	0
57	MG	1H	3544	1/1	0.90	0.14	105,105,105,105	0
57	MG	1H	3547	1/1	0.90	0.06	131,131,131,131	0
57	MG	14	3152	1/1	0.90	0.37	99,99,99,99	0
57	MG	13	1706	1/1	0.90	0.15	88,88,88,88	0
57	MG	13	1601	1/1	0.90	0.32	97,97,97,97	0
57	MG	14	3076	1/1	0.90	0.18	80,80,80,80	0
57	MG	1H	3155	1/1	0.90	0.27	106,106,106,106	0
57	MG	16	201	1/1	0.90	0.27	73,73,73,73	0
57	MG	14	3409	1/1	0.90	0.11	87,87,87,87	0
57	MG	14	3289	1/1	0.90	0.16	89,89,89,89	0
57	MG	14	3291	1/1	0.90	0.16	71,71,71,71	0
57	MG	13	1614	1/1	0.90	0.31	102,102,102,102	0
57	MG	1H	3268	1/1	0.90	0.14	70,70,70,70	0
57	MG	14	3418	1/1	0.90	0.16	97,97,97,97	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3098	1/1	0.90	0.17	59,59,59,59	0
57	MG	1G	1715	1/1	0.90	0.07	110,110,110,110	0
57	MG	1H	3101	1/1	0.90	0.19	72,72,72,72	0
57	MG	1H	3406	1/1	0.90	0.08	95,95,95,95	0
57	MG	14	3092	1/1	0.90	0.21	67,67,67,67	0
57	MG	14	3321	1/1	0.90	0.12	89,89,89,89	0
57	MG	1H	3102	1/1	0.90	0.14	52,52,52,52	0
57	MG	1H	3023	1/1	0.90	0.30	71,71,71,71	0
57	MG	14	3174	1/1	0.90	0.25	78,78,78,78	0
57	MG	41	201	1/1	0.90	0.17	81,81,81,81	0
57	MG	1H	3280	1/1	0.90	0.14	47,47,47,47	0
57	MG	1H	3218	1/1	0.90	0.32	70,70,70,70	0
57	MG	1H	3522	1/1	0.90	0.10	112,112,112,112	0
57	MG	14	3438	1/1	0.90	0.13	111,111,111,111	0
57	MG	I8	101	1/1	0.90	0.06	95,95,95,95	0
57	MG	14	3343	1/1	0.90	0.11	84,84,84,84	0
57	MG	14	3444	1/1	0.90	0.48	102,102,102,102	0
57	MG	13	1714	1/1	0.90	0.06	94,94,94,94	0
57	MG	1H	3081	1/1	0.90	0.15	77,77,77,77	0
57	MG	1H	3223	1/1	0.90	0.27	79,79,79,79	0
57	MG	14	3348	1/1	0.90	0.09	102,102,102,102	0
57	MG	13	1632	1/1	0.90	0.08	95,95,95,95	0
57	MG	13	1602	1/1	0.90	0.12	130,130,130,130	0
57	MG	1G	1681	1/1	0.90	0.12	131,131,131,131	0
57	MG	14	3121	1/1	0.90	0.72	92,92,92,92	0
57	MG	14	3200	1/1	0.90	0.10	86,86,86,86	0
57	MG	1H	3190	1/1	0.90	0.13	73,73,73,73	0
57	MG	1G	1683	1/1	0.90	0.09	132,132,132,132	0
57	MG	14	3018	1/1	0.90	0.24	82,82,82,82	0
57	MG	13	1731	1/1	0.90	0.14	109,109,109,109	0
57	MG	14	3020	1/1	0.90	0.21	69,69,69,69	0
57	MG	14	3221	1/1	0.90	0.10	65,65,65,65	0
57	MG	14	3376	1/1	0.90	0.13	82,82,82,82	0
57	MG	14	3132	1/1	0.90	0.26	90,90,90,90	0
57	MG	1H	3233	1/1	0.90	0.20	94,94,94,94	0
57	MG	1H	3380	1/1	0.90	0.15	76,76,76,76	0
57	MG	1H	3317	1/1	0.90	0.15	70,70,70,70	0
57	MG	35	201	1/1	0.90	0.23	81,81,81,81	0
57	MG	45	201	1/1	0.90	0.68	84,84,84,84	0
57	MG	13	1733	1/1	0.90	0.05	118,118,118,118	0
57	MG	1H	3442	1/1	0.90	0.11	107,107,107,107	0
57	MG	1H	3495	1/1	0.90	0.08	87,87,87,87	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
60	SPE	14	3458	13/13	0.90	0.21	92,101,106,108	0
57	MG	14	3119	1/1	0.91	0.31	69,69,69,69	0
57	MG	21	301	1/1	0.91	0.34	77,77,77,77	0
57	MG	1H	3069	1/1	0.91	0.27	76,76,76,76	0
57	MG	14	3005	1/1	0.91	0.33	83,83,83,83	0
57	MG	13	1737	1/1	0.91	0.11	107,107,107,107	0
57	MG	14	3231	1/1	0.91	0.13	78,78,78,78	0
57	MG	14	3233	1/1	0.91	0.11	85,85,85,85	0
57	MG	1H	3030	1/1	0.91	0.17	89,89,89,89	0
57	MG	1H	3219	1/1	0.91	0.11	83,83,83,83	0
57	MG	14	3248	1/1	0.91	0.14	76,76,76,76	0
57	MG	14	3131	1/1	0.91	0.11	84,84,84,84	0
57	MG	1G	1669	1/1	0.91	0.08	114,114,114,114	0
57	MG	1H	3340	1/1	0.91	0.05	109,109,109,109	0
57	MG	13	1707	1/1	0.91	0.06	88,88,88,88	0
57	MG	14	3260	1/1	0.91	0.16	77,77,77,77	0
57	MG	1H	3520	1/1	0.91	0.10	88,88,88,88	0
57	MG	1H	3465	1/1	0.91	0.09	112,112,112,112	0
57	MG	1H	3342	1/1	0.91	0.10	83,83,83,83	0
57	MG	1H	3343	1/1	0.91	0.09	115,115,115,115	0
57	MG	1H	3139	1/1	0.91	0.50	90,90,90,90	0
57	MG	14	3142	1/1	0.91	0.37	98,98,98,98	0
57	MG	13	1708	1/1	0.91	0.07	91,91,91,91	0
57	MG	14	3411	1/1	0.91	0.07	115,115,115,115	0
57	MG	14	3046	1/1	0.91	0.20	77,77,77,77	0
57	MG	1H	3480	1/1	0.91	0.27	90,90,90,90	0
57	MG	14	3052	1/1	0.91	0.32	59,59,59,59	0
57	MG	1H	3350	1/1	0.91	0.12	58,58,58,58	0
57	MG	1H	3353	1/1	0.91	0.12	62,62,62,62	0
57	MG	14	3067	1/1	0.91	0.22	77,77,77,77	0
57	MG	1G	1691	1/1	0.91	0.07	104,104,104,104	0
57	MG	14	3296	1/1	0.91	0.10	76,76,76,76	0
57	MG	13	1687	1/1	0.91	0.13	89,89,89,89	0
57	MG	1G	1617	1/1	0.91	0.11	89,89,89,89	0
57	MG	14	3426	1/1	0.91	0.06	99,99,99,99	0
57	MG	1H	3286	1/1	0.91	0.22	65,65,65,65	0
57	MG	13	1639	1/1	0.91	0.44	80,80,80,80	0
57	MG	14	3311	1/1	0.91	0.18	84,84,84,84	0
57	MG	14	3312	1/1	0.91	0.08	109,109,109,109	0
57	MG	1H	3300	1/1	0.91	0.10	73,73,73,73	0
57	MG	1H	3143	1/1	0.91	0.25	79,79,79,79	0
57	MG	1H	3539	1/1	0.91	0.22	95,95,95,95	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3078	1/1	0.91	0.34	85,85,85,85	0
57	MG	1H	3423	1/1	0.91	0.08	115,115,115,115	0
57	MG	1H	3125	1/1	0.91	0.14	79,79,79,79	0
57	MG	14	3334	1/1	0.91	0.09	83,83,83,83	0
57	MG	14	3170	1/1	0.91	0.25	76,76,76,76	0
57	MG	1G	1635	1/1	0.91	0.30	94,94,94,94	0
57	MG	1H	3204	1/1	0.91	0.28	80,80,80,80	0
57	MG	1G	1709	1/1	0.91	0.12	119,119,119,119	0
57	MG	1H	3151	1/1	0.91	0.28	79,79,79,79	0
57	MG	14	3342	1/1	0.91	0.12	105,105,105,105	0
57	MG	1H	3545	1/1	0.91	0.46	102,102,102,102	0
57	MG	2I	201	1/1	0.91	0.10	97,97,97,97	0
57	MG	1H	3240	1/1	0.91	0.20	86,86,86,86	0
57	MG	14	3346	1/1	0.91	0.09	98,98,98,98	0
57	MG	1G	1716	1/1	0.91	0.14	110,110,110,110	0
57	MG	14	3186	1/1	0.91	0.13	95,95,95,95	0
57	MG	14	3461	1/1	0.91	0.07	108,108,108,108	0
57	MG	1J	201	1/1	0.91	0.22	97,97,97,97	0
57	MG	14	3349	1/1	0.91	0.07	99,99,99,99	0
57	MG	1G	1646	1/1	0.91	0.31	78,78,78,78	0
57	MG	14	3191	1/1	0.91	0.46	76,76,76,76	0
57	MG	1J	206	1/1	0.91	0.07	99,99,99,99	0
57	MG	1H	3323	1/1	0.91	0.06	78,78,78,78	0
57	MG	1H	3082	1/1	0.91	0.33	69,69,69,69	0
57	MG	13	1674	1/1	0.91	0.07	105,105,105,105	0
57	MG	14	3363	1/1	0.91	0.05	83,83,83,83	0
57	MG	1H	3105	1/1	0.91	0.18	78,78,78,78	0
57	MG	1H	3453	1/1	0.91	0.19	82,82,82,82	0
57	MG	14	3369	1/1	0.91	0.11	90,90,90,90	0
57	MG	16	207	1/1	0.91	0.10	91,91,91,91	0
57	MG	2K	102	1/1	0.91	0.11	99,99,99,99	0
57	MG	1H	3392	1/1	0.91	0.16	74,74,74,74	0
57	MG	14	3374	1/1	0.91	0.10	94,94,94,94	0
57	MG	16	211	1/1	0.91	0.08	93,93,93,93	0
57	MG	14	3038	1/1	0.92	0.27	68,68,68,68	0
57	MG	1H	3419	1/1	0.92	0.26	73,73,73,73	0
57	MG	1G	1616	1/1	0.92	0.24	84,84,84,84	0
57	MG	14	3385	1/1	0.92	0.20	82,82,82,82	0
57	MG	14	3386	1/1	0.92	0.12	65,65,65,65	0
57	MG	1H	3486	1/1	0.92	0.30	99,99,99,99	0
57	MG	1G	1692	1/1	0.92	0.07	103,103,103,103	0
57	MG	1G	1618	1/1	0.92	0.11	91,91,91,91	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3057	1/1	0.92	0.05	93,93,93,93	0
57	MG	1H	3009	1/1	0.92	0.16	82,82,82,82	0
57	MG	13	1682	1/1	0.92	0.05	109,109,109,109	0
57	MG	1H	3149	1/1	0.92	0.19	81,81,81,81	0
57	MG	1H	3183	1/1	0.92	0.29	75,75,75,75	0
57	MG	14	3279	1/1	0.92	0.10	93,93,93,93	0
57	MG	1H	3083	1/1	0.92	0.44	80,80,80,80	0
57	MG	1H	3431	1/1	0.92	0.05	102,102,102,102	0
57	MG	14	3290	1/1	0.92	0.17	71,71,71,71	0
57	MG	1G	1632	1/1	0.92	0.25	108,108,108,108	0
57	MG	14	3294	1/1	0.92	0.14	66,66,66,66	0
57	MG	1H	3324	1/1	0.92	0.09	69,69,69,69	0
57	MG	1H	3043	1/1	0.92	0.15	64,64,64,64	0
57	MG	14	3077	1/1	0.92	0.16	85,85,85,85	0
57	MG	1G	1705	1/1	0.92	0.03	117,117,117,117	0
57	MG	1H	3248	1/1	0.92	0.11	57,57,57,57	0
57	MG	1H	3249	1/1	0.92	0.14	61,61,61,61	0
57	MG	1H	3153	1/1	0.92	0.34	71,71,71,71	0
57	MG	1H	3550	1/1	0.92	0.66	111,111,111,111	0
57	MG	1H	3443	1/1	0.92	0.08	112,112,112,112	0
57	MG	1H	3387	1/1	0.92	0.08	87,87,87,87	0
57	MG	1G	1713	1/1	0.92	0.20	120,120,120,120	0
57	MG	13	1670	1/1	0.92	0.60	85,85,85,85	0
57	MG	14	3327	1/1	0.92	0.07	108,108,108,108	0
57	MG	16	202	1/1	0.92	0.27	103,103,103,103	0
57	MG	14	3330	1/1	0.92	0.06	94,94,94,94	0
57	MG	1H	3446	1/1	0.92	0.07	100,100,100,100	0
57	MG	1H	3045	1/1	0.92	0.36	63,63,63,63	0
57	MG	1H	3191	1/1	0.92	0.30	79,79,79,79	0
57	MG	1H	3397	1/1	0.92	0.14	87,87,87,87	0
57	MG	1H	3508	1/1	0.92	0.11	144,144,144,144	0
57	MG	1H	3192	1/1	0.92	0.25	83,83,83,83	0
57	MG	13	1732	1/1	0.92	0.06	108,108,108,108	0
57	MG	1H	3511	1/1	0.92	0.07	113,113,113,113	0
57	MG	14	3197	1/1	0.92	0.42	92,92,92,92	0
57	MG	13	1619	1/1	0.92	0.21	54,54,54,54	0
57	MG	1G	1660	1/1	0.92	0.12	128,128,128,128	0
57	MG	1H	3225	1/1	0.92	0.35	74,74,74,74	0
57	MG	13	1703	1/1	0.92	0.14	71,71,71,71	0
57	MG	14	3118	1/1	0.92	0.14	96,96,96,96	0
57	MG	14	3205	1/1	0.92	0.11	102,102,102,102	0
57	MG	1H	3228	1/1	0.92	0.15	81,81,81,81	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3404	1/1	0.92	0.67	71,71,71,71	0
57	MG	1H	3297	1/1	0.92	0.17	56,56,56,56	0
57	MG	14	3357	1/1	0.92	0.08	116,116,116,116	0
57	MG	14	3217	1/1	0.92	0.09	76,76,76,76	0
57	MG	13	1665	1/1	0.92	0.19	128,128,128,128	0
57	MG	14	3362	1/1	0.92	0.10	99,99,99,99	0
57	MG	1J	202	1/1	0.92	0.20	106,106,106,106	0
57	MG	1H	3199	1/1	0.92	0.14	81,81,81,81	0
57	MG	1H	3474	1/1	0.92	0.09	83,83,83,83	0
57	MG	1H	3200	1/1	0.92	0.70	82,82,82,82	0
57	MG	1H	3304	1/1	0.92	0.20	64,64,64,64	0
57	MG	14	3370	1/1	0.92	0.14	90,90,90,90	0
57	MG	14	3236	1/1	0.92	0.14	69,69,69,69	0
57	MG	14	3237	1/1	0.92	0.12	67,67,67,67	0
57	MG	1G	1610	1/1	0.92	0.17	84,84,84,84	0
57	MG	14	3239	1/1	0.92	0.10	60,60,60,60	0
57	MG	14	3022	1/1	0.92	0.13	77,77,77,77	0
57	MG	14	3023	1/1	0.92	0.34	58,58,58,58	0
57	MG	1H	3203	1/1	0.92	0.24	78,78,78,78	0
57	MG	14	3378	1/1	0.92	0.14	101,101,101,101	0
57	MG	1H	3307	1/1	0.92	0.17	56,56,56,56	0
57	MG	1H	3130	1/1	0.92	0.41	97,97,97,97	0
57	MG	14	3033	1/1	0.92	0.32	57,57,57,57	0
57	MG	1H	3450	1/1	0.93	0.06	87,87,87,87	0
57	MG	14	3293	1/1	0.93	0.18	70,70,70,70	0
57	MG	13	1704	1/1	0.93	0.38	111,111,111,111	0
57	MG	14	3184	1/1	0.93	0.38	78,78,78,78	0
57	MG	1H	3524	1/1	0.93	0.17	61,61,61,61	0
57	MG	1G	1694	1/1	0.93	0.10	105,105,105,105	0
57	MG	13	1637	1/1	0.93	0.18	90,90,90,90	0
57	MG	1H	3527	1/1	0.93	0.11	97,97,97,97	0
57	MG	14	3193	1/1	0.93	0.44	96,96,96,96	0
57	MG	14	3307	1/1	0.93	0.15	80,80,80,80	0
57	MG	14	3309	1/1	0.93	0.13	48,48,48,48	0
57	MG	1H	3114	1/1	0.93	0.16	71,71,71,71	0
57	MG	1H	3529	1/1	0.93	0.10	110,110,110,110	0
57	MG	1H	3116	1/1	0.93	0.21	82,82,82,82	0
57	MG	1H	3267	1/1	0.93	0.05	103,103,103,103	0
57	MG	13	1681	1/1	0.93	0.20	91,91,91,91	0
57	MG	1H	3036	1/1	0.93	0.28	73,73,73,73	0
57	MG	1H	3100	1/1	0.93	0.27	77,77,77,77	0
57	MG	1H	3461	1/1	0.93	0.08	80,80,80,80	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3420	1/1	0.93	0.11	119,119,119,119	0
57	MG	14	3054	1/1	0.93	0.28	67,67,67,67	0
57	MG	1H	3276	1/1	0.93	0.06	80,80,80,80	0
57	MG	1H	3312	1/1	0.93	0.21	69,69,69,69	0
57	MG	Q8	101	1/1	0.93	0.23	82,82,82,82	0
57	MG	1G	1604	1/1	0.93	0.12	132,132,132,132	0
57	MG	1G	1655	1/1	0.93	0.15	90,90,90,90	0
57	MG	14	3338	1/1	0.93	0.18	112,112,112,112	0
57	MG	14	3139	1/1	0.93	0.84	88,88,88,88	0
57	MG	1H	3040	1/1	0.93	0.20	76,76,76,76	0
57	MG	1H	3395	1/1	0.93	0.07	92,92,92,92	0
57	MG	14	3228	1/1	0.93	0.25	64,64,64,64	0
57	MG	1H	3503	1/1	0.93	0.12	104,104,104,104	0
57	MG	1H	3469	1/1	0.93	0.05	84,84,84,84	0
57	MG	1H	3470	1/1	0.93	0.24	105,105,105,105	0
57	MG	1H	3278	1/1	0.93	0.07	86,86,86,86	0
57	MG	1H	3355	1/1	0.93	0.18	58,58,58,58	0
57	MG	14	3441	1/1	0.93	0.14	103,103,103,103	0
57	MG	13	1622	1/1	0.93	0.05	111,111,111,111	0
57	MG	13	1643	1/1	0.93	0.22	95,95,95,95	0
57	MG	14	3352	1/1	0.93	0.11	95,95,95,95	0
57	MG	13	1659	1/1	0.93	0.39	109,109,109,109	0
57	MG	14	3155	1/1	0.93	0.32	83,83,83,83	0
57	MG	14	3449	1/1	0.93	0.06	105,105,105,105	0
57	MG	14	3251	1/1	0.93	0.18	113,113,113,113	0
57	MG	14	3252	1/1	0.93	0.14	69,69,69,69	0
57	MG	13	1644	1/1	0.93	0.11	99,99,99,99	0
57	MG	14	3361	1/1	0.93	0.16	87,87,87,87	0
57	MG	14	3256	1/1	0.93	0.08	99,99,99,99	0
57	MG	14	3083	1/1	0.93	0.20	58,58,58,58	0
57	MG	1G	1674	1/1	0.93	0.18	106,106,106,106	0
57	MG	1H	3144	1/1	0.93	0.15	71,71,71,71	0
57	MG	1H	3367	1/1	0.93	0.09	69,69,69,69	0
57	MG	1G	1680	1/1	0.93	0.14	103,103,103,103	0
57	MG	1G	1622	1/1	0.93	0.16	104,104,104,104	0
57	MG	14	3164	1/1	0.93	0.19	83,83,83,83	0
57	MG	1H	3517	1/1	0.93	0.29	85,85,85,85	0
57	MG	1G	1625	1/1	0.93	0.61	89,89,89,89	0
57	MG	1H	3296	1/1	0.93	0.16	56,56,56,56	0
57	MG	13	1661	1/1	0.93	0.17	101,101,101,101	0
57	MG	1G	1686	1/1	0.93	0.08	113,113,113,113	0
57	MG	1G	1630	1/1	0.93	0.14	132,132,132,132	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	16	205	1/1	0.93	0.05	84,84,84,84	0
57	MG	14	3281	1/1	0.93	0.07	75,75,75,75	0
57	MG	14	3282	1/1	0.93	0.10	82,82,82,82	0
57	MG	14	3110	1/1	0.93	0.24	85,85,85,85	0
57	MG	14	3286	1/1	0.93	0.19	58,58,58,58	0
57	MG	14	3287	1/1	0.93	0.13	74,74,74,74	0
57	MG	14	3288	1/1	0.93	0.20	59,59,59,59	0
57	MG	M5	101	1/1	0.93	0.36	81,81,81,81	0
57	MG	14	3111	1/1	0.93	0.17	83,83,83,83	0
57	MG	14	3112	1/1	0.93	0.46	68,68,68,68	0
57	MG	1G	1700	1/1	0.94	0.13	107,107,107,107	0
57	MG	14	3062	1/1	0.94	0.24	97,97,97,97	0
57	MG	1H	3189	1/1	0.94	0.27	83,83,83,83	0
57	MG	14	3149	1/1	0.94	0.31	94,94,94,94	0
57	MG	13	1605	1/1	0.94	0.18	88,88,88,88	0
57	MG	1H	3405	1/1	0.94	0.10	75,75,75,75	0
57	MG	16	212	1/1	0.94	0.07	78,78,78,78	0
57	MG	1H	3348	1/1	0.94	0.11	66,66,66,66	0
57	MG	1H	3015	1/1	0.94	0.47	77,77,77,77	0
57	MG	14	3157	1/1	0.94	0.13	96,96,96,96	0
57	MG	14	3269	1/1	0.94	0.07	104,104,104,104	0
57	MG	13	1615	1/1	0.94	0.41	75,75,75,75	0
57	MG	1G	1708	1/1	0.94	0.12	127,127,127,127	0
57	MG	1H	3472	1/1	0.94	0.13	63,63,63,63	0
57	MG	1H	3104	1/1	0.94	0.16	68,68,68,68	0
57	MG	1H	3079	1/1	0.94	0.17	85,85,85,85	0
57	MG	13	1696	1/1	0.94	0.18	114,114,114,114	0
57	MG	1H	3526	1/1	0.94	0.20	96,96,96,96	0
57	MG	1G	1714	1/1	0.94	0.11	126,126,126,126	0
57	MG	F8	101	1/1	0.94	0.14	85,85,85,85	0
57	MG	1G	1657	1/1	0.94	0.10	114,114,114,114	0
57	MG	1H	3359	1/1	0.94	0.04	92,92,92,92	0
57	MG	14	3402	1/1	0.94	0.07	111,111,111,111	0
57	MG	13	1613	1/1	0.94	0.18	94,94,94,94	0
57	MG	14	3171	1/1	0.94	0.47	86,86,86,86	0
57	MG	14	3088	1/1	0.94	0.43	82,82,82,82	0
57	MG	14	3407	1/1	0.94	0.18	111,111,111,111	0
57	MG	1H	3305	1/1	0.94	0.15	72,72,72,72	0
57	MG	14	3090	1/1	0.94	0.27	77,77,77,77	0
57	MG	14	3412	1/1	0.94	0.16	106,106,106,106	0
57	MG	14	3176	1/1	0.94	0.52	90,90,90,90	0
57	MG	1H	3035	1/1	0.94	0.36	83,83,83,83	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3178	1/1	0.94	0.13	83,83,83,83	0
57	MG	13	1671	1/1	0.94	0.07	108,108,108,108	0
57	MG	14	3302	1/1	0.94	0.26	94,94,94,94	0
57	MG	1H	3063	1/1	0.94	0.24	59,59,59,59	0
57	MG	13	1701	1/1	0.94	0.10	124,124,124,124	0
57	MG	1G	1668	1/1	0.94	0.10	106,106,106,106	0
57	MG	1H	3006	1/1	0.94	0.20	77,77,77,77	0
57	MG	13	1717	1/1	0.94	0.09	93,93,93,93	0
57	MG	1H	3121	1/1	0.94	0.22	89,89,89,89	0
57	MG	14	3106	1/1	0.94	0.33	79,79,79,79	0
57	MG	1H	3375	1/1	0.94	0.10	80,80,80,80	0
57	MG	14	3316	1/1	0.94	0.08	100,100,100,100	0
57	MG	14	3318	1/1	0.94	0.12	65,65,65,65	0
57	MG	14	3001	1/1	0.94	0.16	51,51,51,51	0
57	MG	14	3004	1/1	0.94	0.35	81,81,81,81	0
57	MG	14	3433	1/1	0.94	0.11	90,90,90,90	0
57	MG	1H	3377	1/1	0.94	0.13	94,94,94,94	0
57	MG	14	3435	1/1	0.94	0.05	122,122,122,122	0
57	MG	1H	3435	1/1	0.94	0.30	100,100,100,100	0
57	MG	1G	1679	1/1	0.94	0.17	105,105,105,105	0
57	MG	1H	3314	1/1	0.94	0.15	65,65,65,65	0
57	MG	1H	3260	1/1	0.94	0.07	70,70,70,70	0
57	MG	14	3202	1/1	0.94	0.15	106,106,106,106	0
57	MG	14	3442	1/1	0.94	0.08	83,83,83,83	0
57	MG	1H	3262	1/1	0.94	0.14	59,59,59,59	0
57	MG	1H	3148	1/1	0.94	0.13	88,88,88,88	0
57	MG	13	1664	1/1	0.94	0.25	91,91,91,91	0
57	MG	1H	3178	1/1	0.94	0.46	80,80,80,80	0
57	MG	14	3447	1/1	0.94	0.07	107,107,107,107	0
57	MG	14	3340	1/1	0.94	0.09	63,63,63,63	0
57	MG	1H	3150	1/1	0.94	0.34	81,81,81,81	0
57	MG	13	1673	1/1	0.94	0.11	110,110,110,110	0
57	MG	1H	3272	1/1	0.94	0.13	79,79,79,79	0
57	MG	1G	1690	1/1	0.94	0.06	113,113,113,113	0
57	MG	14	3129	1/1	0.94	0.21	90,90,90,90	0
57	MG	14	3223	1/1	0.94	0.22	61,61,61,61	0
57	MG	14	3224	1/1	0.94	0.15	76,76,76,76	0
57	MG	1H	3274	1/1	0.94	0.12	48,48,48,48	0
57	MG	14	3227	1/1	0.94	0.17	52,52,52,52	0
57	MG	14	3030	1/1	0.94	0.40	90,90,90,90	0
57	MG	14	3229	1/1	0.94	0.11	74,74,74,74	0
57	MG	14	3031	1/1	0.94	0.24	51,51,51,51	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3232	1/1	0.94	0.11	75,75,75,75	0
57	MG	13	1657	1/1	0.94	0.58	75,75,75,75	0
57	MG	14	3358	1/1	0.94	0.04	78,78,78,78	0
57	MG	14	3034	1/1	0.94	0.28	75,75,75,75	0
57	MG	1H	3049	1/1	0.94	0.27	79,79,79,79	0
57	MG	14	3136	1/1	0.94	0.26	95,95,95,95	0
57	MG	14	3042	1/1	0.94	0.28	54,54,54,54	0
57	MG	14	3240	1/1	0.94	0.25	63,63,63,63	0
57	MG	1H	3507	1/1	0.94	0.15	90,90,90,90	0
57	MG	14	3246	1/1	0.94	0.11	93,93,93,93	0
57	MG	14	3368	1/1	0.94	0.37	92,92,92,92	0
57	MG	35	202	1/1	0.94	0.17	80,80,80,80	0
57	MG	1H	3096	1/1	0.94	0.40	83,83,83,83	0
57	MG	1H	3097	1/1	0.94	0.22	43,43,43,43	0
57	MG	13	1636	1/1	0.94	0.25	81,81,81,81	0
57	MG	1G	1637	1/1	0.94	0.38	106,106,106,106	0
57	MG	14	3253	1/1	0.94	0.12	79,79,79,79	0
57	MG	13	1628	1/1	0.94	0.59	90,90,90,90	0
57	MG	1H	3372	1/1	0.95	0.13	66,66,66,66	0
57	MG	14	3245	1/1	0.95	0.16	74,74,74,74	0
57	MG	1H	3174	1/1	0.95	0.31	73,73,73,73	0
57	MG	1H	3315	1/1	0.95	0.13	61,61,61,61	0
57	MG	14	3249	1/1	0.95	0.05	85,85,85,85	0
57	MG	14	3012	1/1	0.95	0.32	69,69,69,69	0
57	MG	14	3017	1/1	0.95	0.14	74,74,74,74	0
57	MG	1H	3195	1/1	0.95	0.23	85,85,85,85	0
57	MG	1G	1666	1/1	0.95	0.18	110,110,110,110	0
57	MG	1H	3438	1/1	0.95	0.07	95,95,95,95	0
57	MG	1H	3269	1/1	0.95	0.08	83,83,83,83	0
57	MG	1H	3113	1/1	0.95	0.16	70,70,70,70	0
57	MG	14	3258	1/1	0.95	0.05	97,97,97,97	0
57	MG	1H	3382	1/1	0.95	0.16	43,43,43,43	0
57	MG	1G	1671	1/1	0.95	0.10	101,101,101,101	0
57	MG	14	3261	1/1	0.95	0.12	64,64,64,64	0
57	MG	1H	3226	1/1	0.95	0.51	92,92,92,92	0
57	MG	14	3028	1/1	0.95	0.25	67,67,67,67	0
57	MG	13	1694	1/1	0.95	0.11	92,92,92,92	0
57	MG	1H	3447	1/1	0.95	0.04	98,98,98,98	0
57	MG	14	3266	1/1	0.95	0.10	77,77,77,77	0
57	MG	1H	3448	1/1	0.95	0.23	76,76,76,76	0
57	MG	14	3393	1/1	0.95	0.08	89,89,89,89	0
57	MG	1H	3327	1/1	0.95	0.14	81,81,81,81	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3035	1/1	0.95	0.27	69,69,69,69	0
57	MG	14	3037	1/1	0.95	0.49	54,54,54,54	0
57	MG	1H	3331	1/1	0.95	0.06	88,88,88,88	0
57	MG	1H	3390	1/1	0.95	0.13	48,48,48,48	0
57	MG	1G	1601	1/1	0.95	0.20	92,92,92,92	0
57	MG	1G	1602	1/1	0.95	0.32	105,105,105,105	0
57	MG	1H	3515	1/1	0.95	0.12	78,78,78,78	0
57	MG	14	3048	1/1	0.95	0.13	72,72,72,72	0
57	MG	14	3283	1/1	0.95	0.06	105,105,105,105	0
57	MG	13	1688	1/1	0.95	0.07	96,96,96,96	0
57	MG	14	3285	1/1	0.95	0.11	89,89,89,89	0
57	MG	3I	201	1/1	0.95	0.24	75,75,75,75	0
57	MG	1H	3202	1/1	0.95	0.21	80,80,80,80	0
57	MG	1H	3521	1/1	0.95	0.09	65,65,65,65	0
57	MG	14	3059	1/1	0.95	0.20	58,58,58,58	0
57	MG	14	3416	1/1	0.95	0.06	87,87,87,87	0
57	MG	1G	1689	1/1	0.95	0.07	92,92,92,92	0
57	MG	14	3064	1/1	0.95	0.23	99,99,99,99	0
57	MG	14	3419	1/1	0.95	0.27	119,119,119,119	0
57	MG	1H	3038	1/1	0.95	0.16	61,61,61,61	0
57	MG	1H	3396	1/1	0.95	0.17	81,81,81,81	0
57	MG	1H	3099	1/1	0.95	0.15	53,53,53,53	0
57	MG	1G	1614	1/1	0.95	0.58	91,91,91,91	0
57	MG	14	3297	1/1	0.95	0.08	90,90,90,90	0
57	MG	1H	3234	1/1	0.95	0.29	84,84,84,84	0
57	MG	1H	3207	1/1	0.95	0.40	77,77,77,77	0
57	MG	1H	3282	1/1	0.95	0.05	54,54,54,54	0
57	MG	1H	3236	1/1	0.95	0.16	93,93,93,93	0
57	MG	13	1721	1/1	0.95	0.18	77,77,77,77	0
57	MG	1H	3468	1/1	0.95	0.05	82,82,82,82	0
57	MG	1H	3287	1/1	0.95	0.10	76,76,76,76	0
57	MG	1G	1623	1/1	0.95	0.12	109,109,109,109	0
57	MG	1H	3293	1/1	0.95	0.10	60,60,60,60	0
57	MG	1H	3471	1/1	0.95	0.17	83,83,83,83	0
57	MG	1H	3084	1/1	0.95	0.29	77,77,77,77	0
57	MG	1H	3239	1/1	0.95	0.09	97,97,97,97	0
57	MG	1H	3070	1/1	0.95	0.15	51,51,51,51	0
57	MG	14	3190	1/1	0.95	0.32	89,89,89,89	0
57	MG	13	1730	1/1	0.95	0.07	110,110,110,110	0
57	MG	13	1722	1/1	0.95	0.18	99,99,99,99	0
57	MG	1H	3356	1/1	0.95	0.15	79,79,79,79	0
57	MG	1H	3004	1/1	0.95	0.25	64,64,64,64	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3482	1/1	0.95	0.10	107,107,107,107	0
57	MG	1H	3483	1/1	0.95	0.06	99,99,99,99	0
57	MG	13	1697	1/1	0.95	0.07	110,110,110,110	0
57	MG	1H	3417	1/1	0.95	0.04	100,100,100,100	0
57	MG	1H	3046	1/1	0.95	0.17	43,43,43,43	0
57	MG	14	3101	1/1	0.95	0.20	87,87,87,87	0
57	MG	1G	1640	1/1	0.95	0.40	80,80,80,80	0
57	MG	1G	1717	1/1	0.95	0.06	126,126,126,126	0
57	MG	1G	1641	1/1	0.95	0.10	115,115,115,115	0
57	MG	14	3206	1/1	0.95	0.27	97,97,97,97	0
57	MG	14	3207	1/1	0.95	0.49	70,70,70,70	0
57	MG	1G	1719	1/1	0.95	0.09	115,115,115,115	0
57	MG	14	3108	1/1	0.95	0.53	103,103,103,103	0
57	MG	1H	3255	1/1	0.95	0.12	72,72,72,72	0
57	MG	1H	3363	1/1	0.95	0.14	73,73,73,73	0
57	MG	1G	1644	1/1	0.95	0.15	130,130,130,130	0
57	MG	1H	3549	1/1	0.95	0.15	94,94,94,94	0
57	MG	14	3350	1/1	0.95	0.09	88,88,88,88	0
57	MG	1H	3258	1/1	0.95	0.10	56,56,56,56	0
57	MG	1G	1726	1/1	0.95	0.19	94,94,94,94	0
57	MG	14	3354	1/1	0.95	0.12	80,80,80,80	0
57	MG	1H	3109	1/1	0.95	0.67	79,79,79,79	0
57	MG	1H	3310	1/1	0.95	0.06	76,76,76,76	0
57	MG	1H	3424	1/1	0.95	0.15	84,84,84,84	0
57	MG	19	301	1/1	0.95	0.30	61,61,61,61	0
57	MG	29	301	1/1	0.95	0.27	65,65,65,65	0
57	MG	1H	3425	1/1	0.95	0.04	81,81,81,81	0
57	MG	14	3230	1/1	0.95	0.15	56,56,56,56	0
57	MG	16	203	1/1	0.95	0.28	84,84,84,84	0
57	MG	14	3120	1/1	0.95	0.14	84,84,84,84	0
57	MG	1H	3426	1/1	0.95	0.17	82,82,82,82	0
57	MG	1H	3261	1/1	0.95	0.16	61,61,61,61	0
57	MG	1H	3429	1/1	0.95	0.08	87,87,87,87	0
57	MG	1H	3076	1/1	0.95	0.37	75,75,75,75	0
57	MG	16	208	1/1	0.95	0.26	86,86,86,86	0
57	MG	13	1698	1/1	0.95	0.11	93,93,93,93	0
57	MG	1H	3047	1/1	0.96	0.21	64,64,64,64	0
57	MG	14	3254	1/1	0.96	0.12	87,87,87,87	0
57	MG	1H	3128	1/1	0.96	0.07	66,66,66,66	0
57	MG	1H	3018	1/1	0.96	0.34	63,63,63,63	0
57	MG	14	3146	1/1	0.96	0.08	62,62,62,62	0
57	MG	13	1702	1/1	0.96	0.08	70,70,70,70	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3058	1/1	0.96	0.24	83,83,83,83	0
57	MG	14	3150	1/1	0.96	0.16	75,75,75,75	0
57	MG	14	3151	1/1	0.96	0.15	108,108,108,108	0
57	MG	1H	3002	1/1	0.96	0.17	51,51,51,51	0
57	MG	14	3061	1/1	0.96	0.35	60,60,60,60	0
57	MG	1H	3366	1/1	0.96	0.12	56,56,56,56	0
57	MG	14	3063	1/1	0.96	0.20	93,93,93,93	0
57	MG	1H	3132	1/1	0.96	0.20	55,55,55,55	0
57	MG	1H	3368	1/1	0.96	0.06	72,72,72,72	0
57	MG	14	3066	1/1	0.96	0.25	63,63,63,63	0
57	MG	1H	3428	1/1	0.96	0.05	93,93,93,93	0
57	MG	1H	3220	1/1	0.96	0.22	71,71,71,71	0
57	MG	14	3272	1/1	0.96	0.14	71,71,71,71	0
57	MG	14	3273	1/1	0.96	0.11	61,61,61,61	0
57	MG	1H	3029	1/1	0.96	0.21	59,59,59,59	0
57	MG	14	3070	1/1	0.96	0.64	66,66,66,66	0
57	MG	1H	3134	1/1	0.96	0.50	77,77,77,77	0
57	MG	14	3278	1/1	0.96	0.13	83,83,83,83	0
57	MG	14	3396	1/1	0.96	0.07	71,71,71,71	0
57	MG	1G	1645	1/1	0.96	0.20	124,124,124,124	0
57	MG	1H	3316	1/1	0.96	0.07	76,76,76,76	0
57	MG	13	1611	1/1	0.96	0.24	78,78,78,78	0
57	MG	14	3401	1/1	0.96	0.20	89,89,89,89	0
57	MG	14	3075	1/1	0.96	0.28	65,65,65,65	0
57	MG	14	3403	1/1	0.96	0.07	78,78,78,78	0
57	MG	1H	3374	1/1	0.96	0.07	57,57,57,57	0
57	MG	1H	3319	1/1	0.96	0.11	58,58,58,58	0
57	MG	1H	3437	1/1	0.96	0.15	76,76,76,76	0
57	MG	1H	3376	1/1	0.96	0.10	71,71,71,71	0
57	MG	1H	3320	1/1	0.96	0.08	71,71,71,71	0
57	MG	14	3410	1/1	0.96	0.14	107,107,107,107	0
57	MG	1G	1653	1/1	0.96	0.07	125,125,125,125	0
57	MG	1H	3321	1/1	0.96	0.11	55,55,55,55	0
57	MG	1H	3031	1/1	0.96	0.33	90,90,90,90	0
57	MG	1H	3112	1/1	0.96	0.25	79,79,79,79	0
57	MG	1H	3163	1/1	0.96	0.18	86,86,86,86	0
57	MG	1H	3164	1/1	0.96	0.44	85,85,85,85	0
57	MG	14	3182	1/1	0.96	0.26	66,66,66,66	0
57	MG	13	1616	1/1	0.96	0.30	101,101,101,101	0
57	MG	14	3298	1/1	0.96	0.07	95,95,95,95	0
57	MG	1H	3386	1/1	0.96	0.21	72,72,72,72	0
57	MG	14	3091	1/1	0.96	0.31	92,92,92,92	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3328	1/1	0.96	0.15	81,81,81,81	0
57	MG	13	1726	1/1	0.96	0.05	107,107,107,107	0
57	MG	1H	3332	1/1	0.96	0.10	84,84,84,84	0
57	MG	14	3096	1/1	0.96	0.28	84,84,84,84	0
57	MG	14	3308	1/1	0.96	0.13	64,64,64,64	0
57	MG	1H	3516	1/1	0.96	0.09	122,122,122,122	0
57	MG	14	3310	1/1	0.96	0.10	71,71,71,71	0
57	MG	14	3098	1/1	0.96	0.20	63,63,63,63	0
57	MG	1H	3095	1/1	0.96	0.17	76,76,76,76	0
57	MG	14	3002	1/1	0.96	0.35	63,63,63,63	0
57	MG	14	3432	1/1	0.96	0.25	103,103,103,103	0
57	MG	13	1624	1/1	0.96	0.30	83,83,83,83	0
57	MG	1H	3457	1/1	0.96	0.08	102,102,102,102	0
57	MG	1H	3198	1/1	0.96	0.26	75,75,75,75	0
57	MG	14	3105	1/1	0.96	0.17	92,92,92,92	0
57	MG	14	3322	1/1	0.96	0.14	58,58,58,58	0
57	MG	14	3323	1/1	0.96	0.10	84,84,84,84	0
57	MG	1H	3118	1/1	0.96	0.13	63,63,63,63	0
57	MG	14	3325	1/1	0.96	0.08	88,88,88,88	0
57	MG	14	3107	1/1	0.96	0.58	94,94,94,94	0
57	MG	13	1677	1/1	0.96	0.13	90,90,90,90	0
57	MG	1G	1607	1/1	0.96	0.28	107,107,107,107	0
57	MG	1G	1608	1/1	0.96	0.34	100,100,100,100	0
57	MG	1G	1676	1/1	0.96	0.14	104,104,104,104	0
57	MG	14	3208	1/1	0.96	0.23	63,63,63,63	0
57	MG	14	3016	1/1	0.96	0.27	69,69,69,69	0
57	MG	1H	3171	1/1	0.96	0.18	88,88,88,88	0
57	MG	14	3214	1/1	0.96	0.15	83,83,83,83	0
57	MG	1H	3120	1/1	0.96	0.37	69,69,69,69	0
57	MG	1H	3288	1/1	0.96	0.11	58,58,58,58	0
57	MG	14	3220	1/1	0.96	0.08	65,65,65,65	0
57	MG	1H	3290	1/1	0.96	0.09	87,87,87,87	0
57	MG	13	1625	1/1	0.96	0.23	68,68,68,68	0
57	MG	1H	3345	1/1	0.96	0.06	85,85,85,85	0
57	MG	1H	3080	1/1	0.96	0.17	75,75,75,75	0
57	MG	14	3459	1/1	0.96	0.10	68,68,68,68	0
57	MG	13	1679	1/1	0.96	0.06	89,89,89,89	0
57	MG	14	3026	1/1	0.96	0.06	74,74,74,74	0
57	MG	1H	3298	1/1	0.96	0.06	52,52,52,52	0
57	MG	1H	3349	1/1	0.96	0.05	61,61,61,61	0
57	MG	1H	3242	1/1	0.96	0.13	50,50,50,50	0
57	MG	14	3127	1/1	0.96	0.06	70,70,70,70	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3351	1/1	0.96	0.09	66,66,66,66	0
57	MG	14	3032	1/1	0.96	0.25	72,72,72,72	0
57	MG	1H	3209	1/1	0.96	0.17	92,92,92,92	0
57	MG	13	1693	1/1	0.96	0.09	95,95,95,95	0
57	MG	1H	3478	1/1	0.96	0.05	79,79,79,79	0
57	MG	1H	3414	1/1	0.96	0.07	52,52,52,52	0
57	MG	1G	1627	1/1	0.96	0.13	122,122,122,122	0
57	MG	1H	3302	1/1	0.96	0.16	54,54,54,54	0
57	MG	14	3044	1/1	0.96	0.23	71,71,71,71	0
57	MG	1H	3416	1/1	0.96	0.07	80,80,80,80	0
57	MG	14	3247	1/1	0.96	0.11	87,87,87,87	0
57	MG	13	1710	1/1	0.96	0.08	73,73,73,73	0
57	MG	14	3365	1/1	0.96	0.10	93,93,93,93	0
57	MG	13	1711	1/1	0.96	0.09	70,70,70,70	0
57	MG	1H	3253	1/1	0.96	0.12	58,58,58,58	0
59	ZN	G8	201	1/1	0.96	0.09	150,150,150,150	0
59	ZN	C5	201	1/1	0.96	0.05	167,167,167,167	0
57	MG	14	3049	1/1	0.96	0.19	69,69,69,69	0
57	MG	14	3050	1/1	0.96	0.44	87,87,87,87	0
57	MG	14	3085	1/1	0.97	0.23	52,52,52,52	0
57	MG	14	3313	1/1	0.97	0.09	67,67,67,67	0
57	MG	1H	3011	1/1	0.97	0.21	79,79,79,79	0
57	MG	14	3234	1/1	0.97	0.09	62,62,62,62	0
57	MG	1H	3518	1/1	0.97	0.11	57,57,57,57	0
57	MG	14	3317	1/1	0.97	0.05	100,100,100,100	0
57	MG	1H	3250	1/1	0.97	0.10	54,54,54,54	0
57	MG	14	3320	1/1	0.97	0.15	70,70,70,70	0
57	MG	1H	3252	1/1	0.97	0.07	52,52,52,52	0
57	MG	13	1603	1/1	0.97	0.22	92,92,92,92	0
57	MG	1H	3254	1/1	0.97	0.14	49,49,49,49	0
57	MG	14	3242	1/1	0.97	0.11	82,82,82,82	0
57	MG	1H	3381	1/1	0.97	0.14	58,58,58,58	0
57	MG	14	3326	1/1	0.97	0.10	87,87,87,87	0
57	MG	14	3244	1/1	0.97	0.06	68,68,68,68	0
57	MG	13	1606	1/1	0.97	0.16	88,88,88,88	0
57	MG	1H	3088	1/1	0.97	0.14	87,87,87,87	0
57	MG	14	3331	1/1	0.97	0.14	56,56,56,56	0
57	MG	14	3332	1/1	0.97	0.16	63,63,63,63	0
57	MG	1H	3303	1/1	0.97	0.11	49,49,49,49	0
57	MG	1H	3430	1/1	0.97	0.18	94,94,94,94	0
57	MG	1H	3259	1/1	0.97	0.12	59,59,59,59	0
57	MG	14	3099	1/1	0.97	0.55	101,101,101,101	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3344	1/1	0.97	0.09	60,60,60,60	0
57	MG	13	1612	1/1	0.97	0.14	111,111,111,111	0
57	MG	13	1630	1/1	0.97	0.25	86,86,86,86	0
57	MG	1G	1603	1/1	0.97	0.16	91,91,91,91	0
57	MG	1H	3115	1/1	0.97	0.19	64,64,64,64	0
57	MG	14	3036	1/1	0.97	0.28	85,85,85,85	0
57	MG	1H	3224	1/1	0.97	0.09	72,72,72,72	0
57	MG	1H	3266	1/1	0.97	0.14	92,92,92,92	0
57	MG	14	3041	1/1	0.97	0.29	66,66,66,66	0
57	MG	1H	3016	1/1	0.97	0.35	52,52,52,52	0
57	MG	1H	3439	1/1	0.97	0.04	76,76,76,76	0
57	MG	1H	3017	1/1	0.97	0.27	56,56,56,56	0
57	MG	14	3180	1/1	0.97	0.34	86,86,86,86	0
57	MG	1H	3352	1/1	0.97	0.08	70,70,70,70	0
57	MG	13	1713	1/1	0.97	0.09	96,96,96,96	0
57	MG	1H	3019	1/1	0.97	0.29	53,53,53,53	0
57	MG	14	3353	1/1	0.97	0.10	89,89,89,89	0
57	MG	14	3440	1/1	0.97	0.20	87,87,87,87	0
57	MG	1H	3020	1/1	0.97	0.24	60,60,60,60	0
57	MG	1G	1665	1/1	0.97	0.10	82,82,82,82	0
57	MG	1H	3496	1/1	0.97	0.10	89,89,89,89	0
57	MG	1H	3022	1/1	0.97	0.17	56,56,56,56	0
57	MG	14	3271	1/1	0.97	0.10	67,67,67,67	0
57	MG	13	1607	1/1	0.97	0.23	83,83,83,83	0
57	MG	14	3055	1/1	0.97	0.25	64,64,64,64	0
57	MG	14	3056	1/1	0.97	0.37	74,74,74,74	0
57	MG	14	3122	1/1	0.97	0.14	90,90,90,90	0
57	MG	1H	3051	1/1	0.97	0.29	74,74,74,74	0
57	MG	14	3277	1/1	0.97	0.06	64,64,64,64	0
57	MG	1H	3546	1/1	0.97	0.10	105,105,105,105	0
57	MG	14	3125	1/1	0.97	0.10	92,92,92,92	0
57	MG	1H	3318	1/1	0.97	0.04	74,74,74,74	0
57	MG	1H	3361	1/1	0.97	0.07	53,53,53,53	0
57	MG	1G	1673	1/1	0.97	0.11	80,80,80,80	0
57	MG	1H	3052	1/1	0.97	0.28	58,58,58,58	0
57	MG	1H	3407	1/1	0.97	0.07	69,69,69,69	0
57	MG	1H	3025	1/1	0.97	0.24	52,52,52,52	0
57	MG	1G	1677	1/1	0.97	0.09	83,83,83,83	0
57	MG	2L	101	1/1	0.97	0.43	83,83,83,83	0
57	MG	1H	3205	1/1	0.97	0.18	71,71,71,71	0
57	MG	1G	1626	1/1	0.97	0.28	119,119,119,119	0
57	MG	1H	3054	1/1	0.97	0.14	63,63,63,63	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	13	1609	1/1	0.97	0.19	88,88,88,88	0
57	MG	14	3003	1/1	0.97	0.17	68,68,68,68	0
57	MG	1H	3179	1/1	0.97	0.24	74,74,74,74	0
57	MG	1H	3028	1/1	0.97	0.16	62,62,62,62	0
57	MG	14	3006	1/1	0.97	0.18	78,78,78,78	0
57	MG	13	1695	1/1	0.97	0.07	91,91,91,91	0
57	MG	14	3299	1/1	0.97	0.06	63,63,63,63	0
57	MG	13	1686	1/1	0.97	0.10	107,107,107,107	0
57	MG	1H	3464	1/1	0.97	0.17	57,57,57,57	0
57	MG	1H	3329	1/1	0.97	0.13	53,53,53,53	0
57	MG	14	3303	1/1	0.97	0.11	52,52,52,52	0
57	MG	1H	3106	1/1	0.97	0.09	73,73,73,73	0
57	MG	B5	101	1/1	0.97	0.10	99,99,99,99	0
57	MG	14	3226	1/1	0.97	0.17	54,54,54,54	0
57	MG	14	3147	1/1	0.97	0.75	86,86,86,86	0
57	MG	13	1634	1/1	0.97	0.33	91,91,91,91	0
57	MG	14	3015	1/1	0.97	0.14	65,65,65,65	0
57	MG	13	1626	1/1	0.97	0.10	96,96,96,96	0
57	MG	14	3084	1/1	0.97	0.27	67,67,67,67	0
57	MG	14	3398	1/1	0.97	0.05	86,86,86,86	0
57	MG	1H	3024	1/1	0.98	0.17	64,64,64,64	0
57	MG	1H	3037	1/1	0.98	0.11	57,57,57,57	0
57	MG	1H	3336	1/1	0.98	0.07	88,88,88,88	0
57	MG	14	3060	1/1	0.98	0.15	65,65,65,65	0
57	MG	13	1631	1/1	0.98	0.35	106,106,106,106	0
57	MG	1H	3476	1/1	0.98	0.16	94,94,94,94	0
57	MG	1H	3145	1/1	0.98	0.09	74,74,74,74	0
57	MG	1G	1619	1/1	0.98	0.07	118,118,118,118	0
57	MG	14	3292	1/1	0.98	0.06	71,71,71,71	0
57	MG	14	3013	1/1	0.98	0.30	56,56,56,56	0
57	MG	14	3168	1/1	0.98	0.18	70,70,70,70	0
57	MG	1G	1661	1/1	0.98	0.23	118,118,118,118	0
57	MG	1H	3039	1/1	0.98	0.17	56,56,56,56	0
57	MG	1H	3479	1/1	0.98	0.05	95,95,95,95	0
57	MG	14	3172	1/1	0.98	0.21	82,82,82,82	0
57	MG	13	1729	1/1	0.98	0.08	110,110,110,110	0
57	MG	1H	3440	1/1	0.98	0.05	83,83,83,83	0
57	MG	14	3366	1/1	0.98	0.04	99,99,99,99	0
57	MG	1H	3027	1/1	0.98	0.17	60,60,60,60	0
57	MG	14	3021	1/1	0.98	0.37	63,63,63,63	0
57	MG	14	3241	1/1	0.98	0.14	61,61,61,61	0
57	MG	14	3304	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(\AA^2)	Q<0.9
57	MG	13	1608	1/1	0.98	0.07	93,93,93,93	0
57	MG	1H	3285	1/1	0.98	0.16	69,69,69,69	0
57	MG	1H	3409	1/1	0.98	0.10	83,83,83,83	0
57	MG	13	1652	1/1	0.98	0.18	82,82,82,82	0
57	MG	1H	3021	1/1	0.98	0.28	60,60,60,60	0
57	MG	1H	3263	1/1	0.98	0.11	53,53,53,53	0
57	MG	1H	3449	1/1	0.98	0.24	92,92,92,92	0
57	MG	14	3029	1/1	0.98	0.15	80,80,80,80	0
57	MG	1H	3378	1/1	0.98	0.08	54,54,54,54	0
57	MG	1H	3289	1/1	0.98	0.11	91,91,91,91	0
57	MG	1H	3201	1/1	0.98	0.26	80,80,80,80	0
57	MG	14	3188	1/1	0.98	0.23	69,69,69,69	0
57	MG	14	3189	1/1	0.98	0.32	81,81,81,81	0
57	MG	1H	3292	1/1	0.98	0.07	62,62,62,62	0
57	MG	14	3319	1/1	0.98	0.13	72,72,72,72	0
57	MG	1H	3265	1/1	0.98	0.11	74,74,74,74	0
57	MG	14	3387	1/1	0.98	0.06	83,83,83,83	0
57	MG	1H	3294	1/1	0.98	0.10	68,68,68,68	0
57	MG	1H	3322	1/1	0.98	0.10	59,59,59,59	0
57	MG	I8	102	1/1	0.98	0.06	70,70,70,70	0
57	MG	14	3460	1/1	0.98	0.26	92,92,92,92	0
57	MG	1H	3295	1/1	0.98	0.12	58,58,58,58	0
57	MG	14	3040	1/1	0.98	0.26	80,80,80,80	0
57	MG	1H	3001	1/1	0.98	0.23	49,49,49,49	0
57	MG	1H	3032	1/1	0.98	0.37	68,68,68,68	0
57	MG	14	3093	1/1	0.98	0.29	86,86,86,86	0
57	MG	14	3329	1/1	0.98	0.16	93,93,93,93	0
57	MG	14	3201	1/1	0.98	0.28	82,82,82,82	0
57	MG	14	3043	1/1	0.98	0.70	96,96,96,96	0
57	MG	1H	3388	1/1	0.98	0.07	49,49,49,49	0
57	MG	1H	3033	1/1	0.98	0.18	63,63,63,63	0
57	MG	1H	3034	1/1	0.98	0.15	74,74,74,74	0
57	MG	7A	101	1/1	0.98	0.32	110,110,110,110	0
57	MG	1H	3244	1/1	0.98	0.11	47,47,47,47	0
57	MG	1H	3393	1/1	0.98	0.10	63,63,63,63	0
57	MG	14	3209	1/1	0.98	0.18	61,61,61,61	0
57	MG	1H	3206	1/1	0.98	0.34	55,55,55,55	0
57	MG	14	3051	1/1	0.98	0.30	70,70,70,70	0
57	MG	14	3408	1/1	0.98	0.07	77,77,77,77	0
57	MG	14	3213	1/1	0.98	0.12	70,70,70,70	0
57	MG	1H	3467	1/1	0.98	0.11	74,74,74,74	0
57	MG	1H	3330	1/1	0.98	0.09	74,74,74,74	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	13	1604	1/1	0.98	0.13	79,79,79,79	0
57	MG	14	3280	1/1	0.98	0.16	76,76,76,76	0
59	ZN	5A	101	1/1	0.98	0.09	129,129,129,129	0
57	MG	14	3219	1/1	0.98	0.14	59,59,59,59	0
57	MG	1H	3273	1/1	0.98	0.16	56,56,56,56	0
57	MG	1H	3066	1/1	0.98	0.23	65,65,65,65	0
57	MG	14	3235	1/1	0.99	0.09	55,55,55,55	0
57	MG	1H	3230	1/1	0.99	0.09	90,90,90,90	0
57	MG	1H	3061	1/1	0.99	0.38	62,62,62,62	0
57	MG	13	1635	1/1	0.99	0.45	83,83,83,83	0
57	MG	1H	3256	1/1	0.99	0.12	48,48,48,48	0
57	MG	14	3212	1/1	0.99	0.11	60,60,60,60	0
57	MG	1H	3441	1/1	0.99	0.07	100,100,100,100	0
57	MG	1H	3257	1/1	0.99	0.16	49,49,49,49	0
57	MG	1H	3214	1/1	0.99	0.18	77,77,77,77	0
57	MG	14	3216	1/1	0.99	0.23	62,62,62,62	0
57	MG	1H	3291	1/1	0.99	0.15	57,57,57,57	0
57	MG	14	3218	1/1	0.99	0.10	55,55,55,55	0
57	MG	14	3192	1/1	0.99	0.14	80,80,80,80	0
57	MG	13	1676	1/1	0.99	0.11	67,67,67,67	0
57	MG	1H	3275	1/1	0.99	0.10	72,72,72,72	0
57	MG	1H	3245	1/1	0.99	0.11	58,58,58,58	0
57	MG	1H	3003	1/1	0.99	0.12	67,67,67,67	0
57	MG	1H	3247	1/1	0.99	0.07	67,67,67,67	0
57	MG	14	3014	1/1	0.99	0.36	72,72,72,72	0
57	MG	1H	3389	1/1	0.99	0.05	63,63,63,63	0
57	MG	13	1658	1/1	0.99	0.28	83,83,83,83	0
57	MG	14	3039	1/1	0.99	0.27	85,85,85,85	0
57	MG	1H	3041	1/1	0.99	0.27	57,57,57,57	0
58	SF4	3E	301	8/8	0.99	0.21	95,98,106,108	0
58	SF4	32	302	8/8	0.99	0.20	115,120,128,136	0
59	ZN	5I	101	1/1	0.99	0.13	94,94,94,94	0
57	MG	1H	3186	1/1	0.99	0.09	56,56,56,56	0
57	MG	1H	3251	1/1	0.99	0.06	49,49,49,49	0
57	MG	1H	3283	1/1	0.99	0.12	59,59,59,59	0
57	MG	13	1620	1/1	0.99	0.16	68,68,68,68	0
57	MG	1H	3357	1/1	0.99	0.11	64,64,64,64	0
57	MG	1H	3005	1/1	1.00	0.15	67,67,67,67	0
57	MG	1H	3451	1/1	1.00	0.07	55,55,55,55	0

6.5 Other polymers [i](#)

There are no such residues in this entry.