wwPDB X-ray Structure Validation Summary Report (i)

Jan 4, 2024 – 04:11 pm GMT

PDB ID	:	5E81
Title	:	Structure of T. thermophilus 70S ribosome complex with mRNA and tRNALys in the A-site with wobble pair
Authors	:	Rozov, A.; Demeshkina, N.; Khusainov, I.; Yusupov, M.; Yusupova, G.
Deposited on	:	2015-10-13
Resolution	:	2.95 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

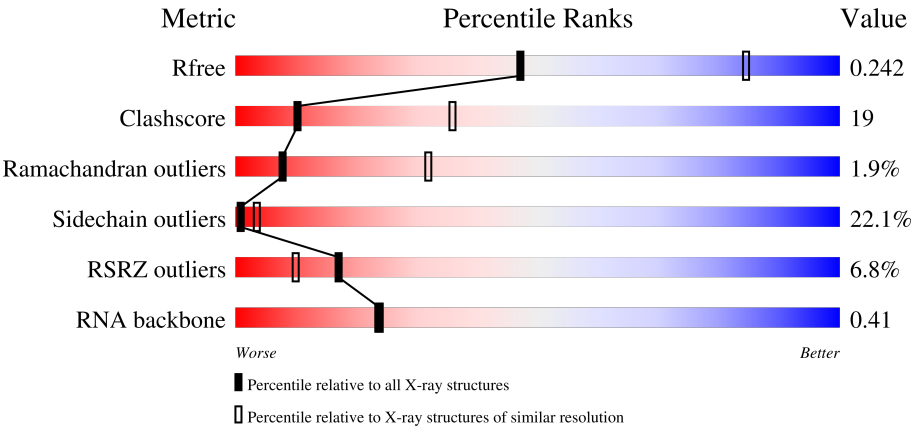
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	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 2.95 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3104 (3.00-2.92)
Clashscore	141614	3462 (3.00-2.92)
Ramachandran outliers	138981	3340 (3.00-2.92)
Sidechain outliers	138945	3343 (3.00-2.92)
RSRZ outliers	127900	2986 (3.00-2.92)
RNA backbone	3102	1065 (3.22-2.70)

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

Mol	Chain	Length	Quality of chain
1	13	1519	24% 45% 24% 5%
1	1G	1519	% 32% 44% 18%
2	12	256	8% 34% 38% 7% 19%
2	1E	256	5% 38% 39% 12% 10%

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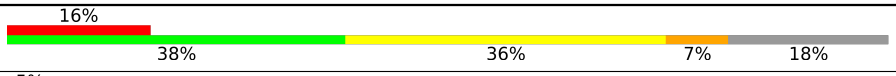
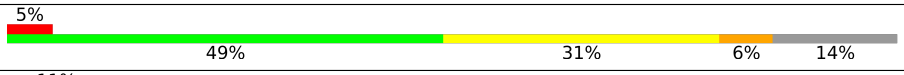
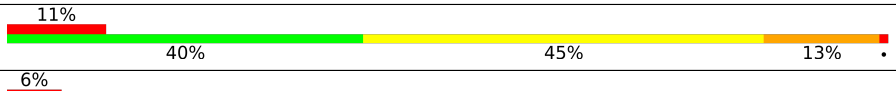
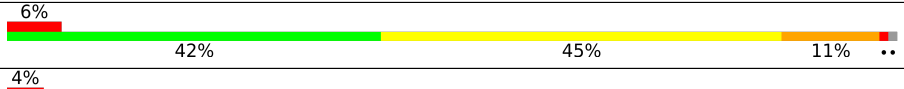
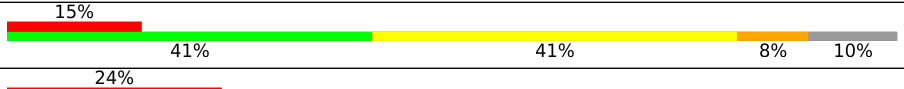
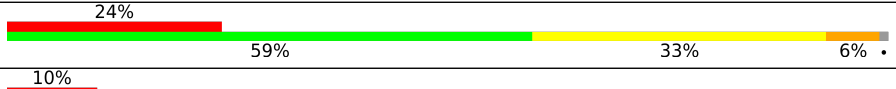
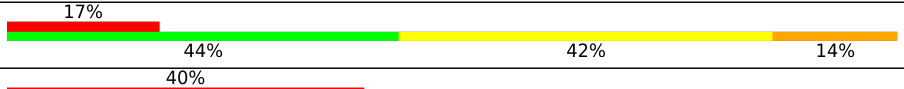
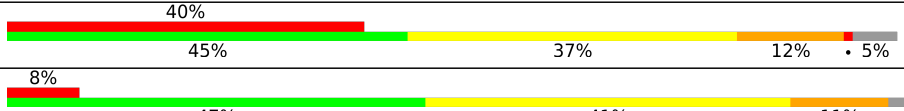
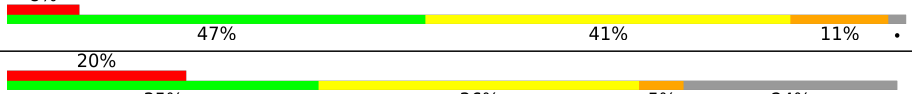
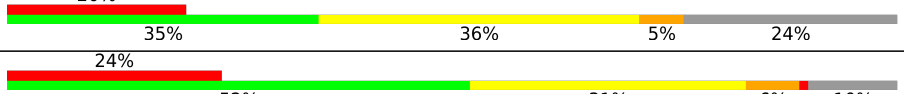
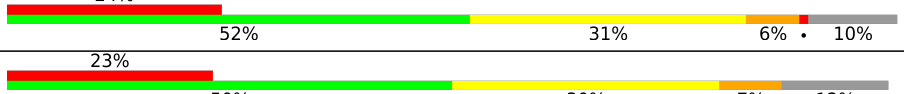
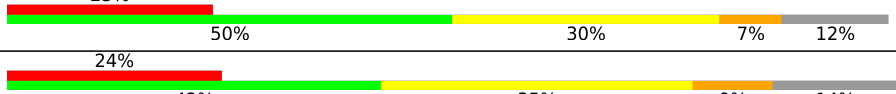
Mol	Chain	Length	Quality of chain
3	22	239	
3	2E	239	
4	32	209	
4	3E	209	
5	42	162	
5	4E	162	
6	52	101	
6	5E	101	
7	62	156	
7	6E	156	
8	72	138	
8	7E	138	
9	82	128	
9	8E	128	
10	1A	105	
10	1I	105	
11	2A	129	
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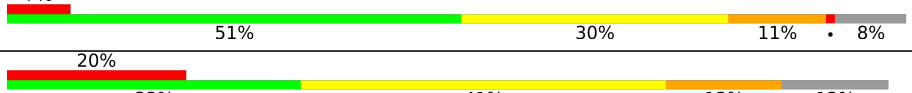
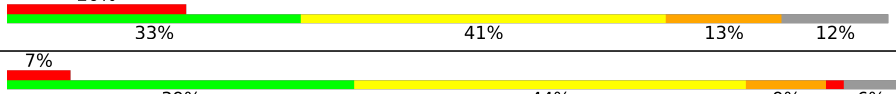
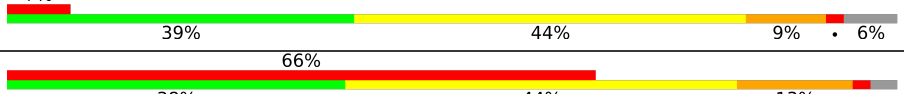
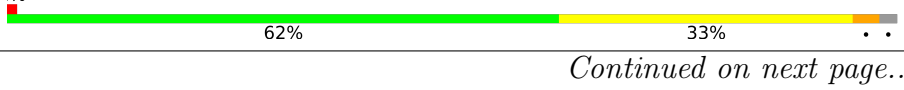
12	3A	132	
12	3I	132	
13	4A	126	
13	4I	126	
14	5A	61	
14	5I	61	
15	6A	89	

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Mol	Chain	Length	Quality of chain
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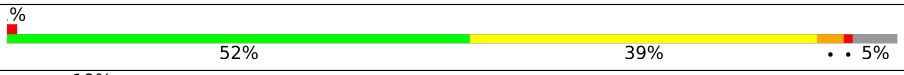
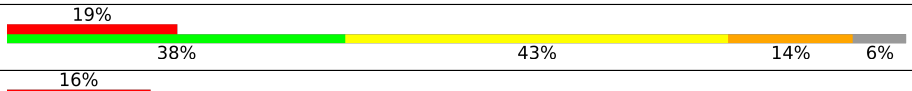
16	7A	88	
16	7I	88	
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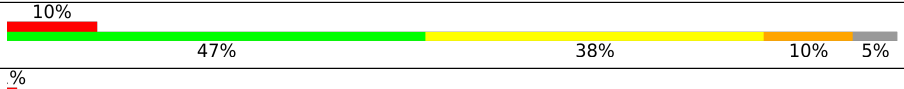
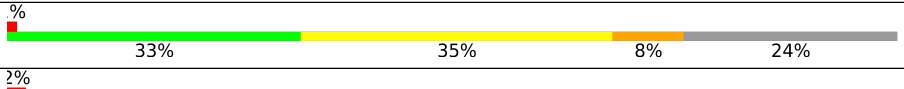
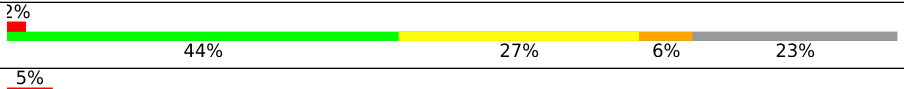
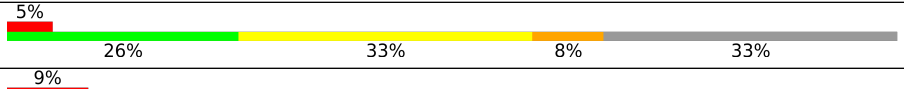
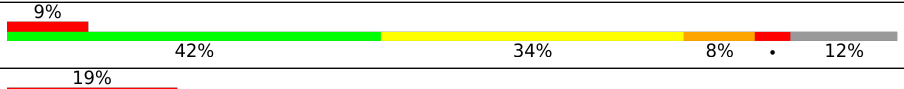
17	8I	105	
18	9A	88	
18	9I	88	
19	AA	93	
19	AI	93	
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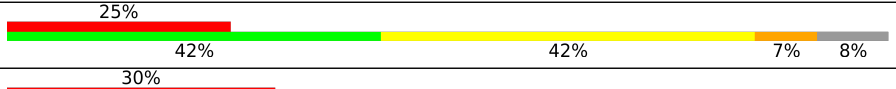
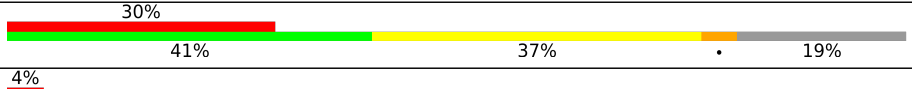
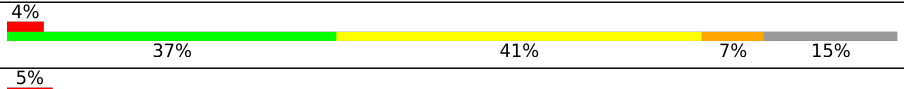
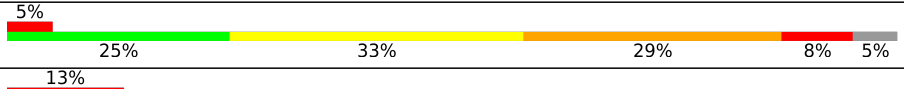
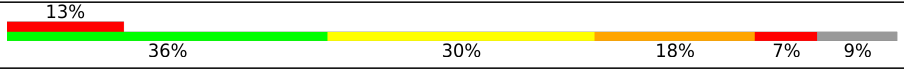
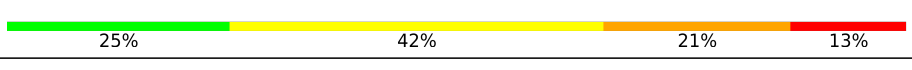
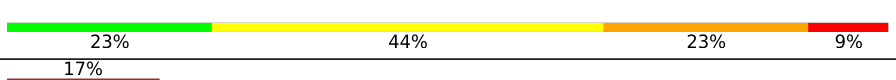
20	BI	106	
21	1B	27	
21	1F	27	
22	1K	76	
22	1L	76	
23	2K	77	
23	2L	77	
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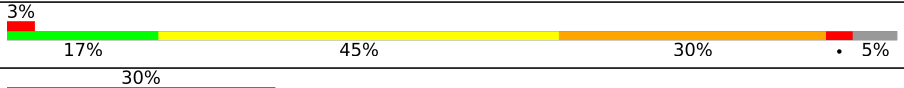
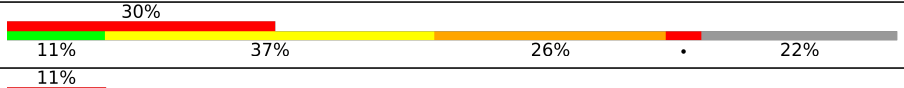
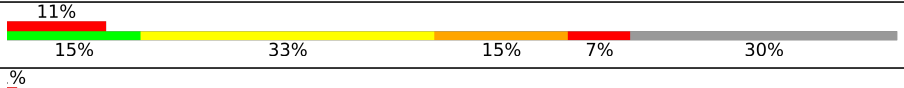
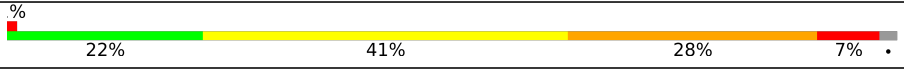
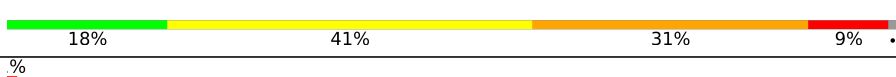
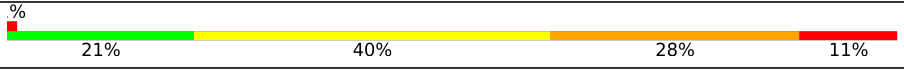
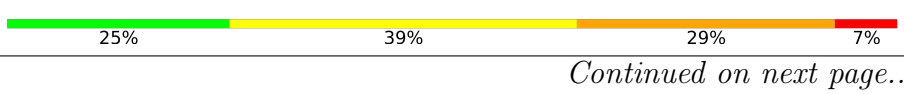
24	3L	76	
25	4K	27	
25	4L	27	
26	14	2917	
26	1H	2917	
27	16	122	
27	1J	122	

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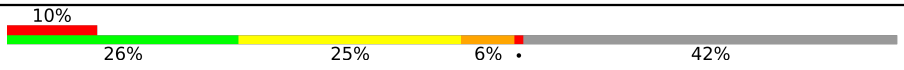
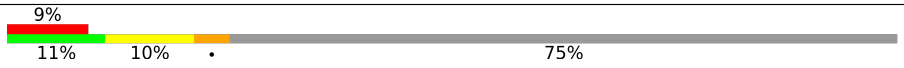
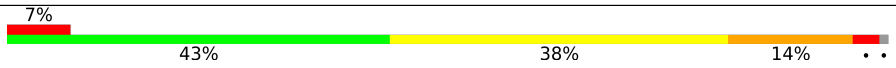
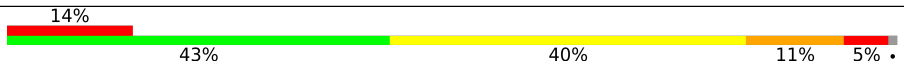
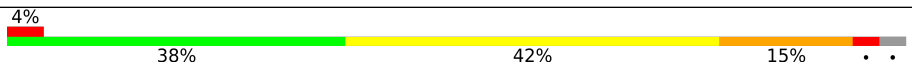
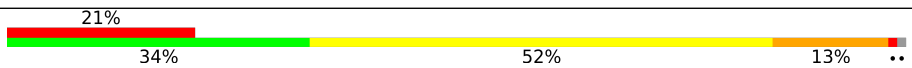
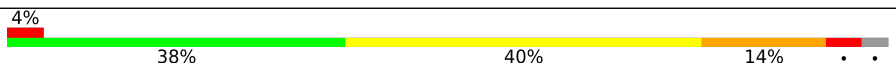
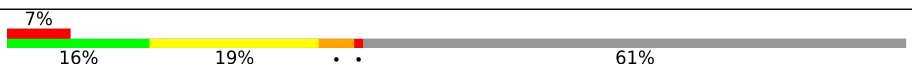
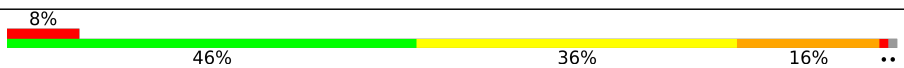
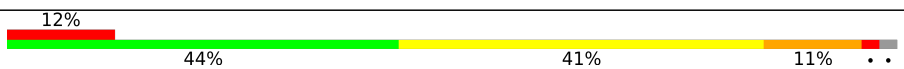
Mol	Chain	Length	Quality of chain
28	71	229	
28	79	229	
29	11	276	
29	19	276	
30	21	206	
30	29	206	
31	31	210	
31	39	210	
32	41	182	
32	49	182	
33	51	180	
33	59	180	
34	61	148	
34	69	148	
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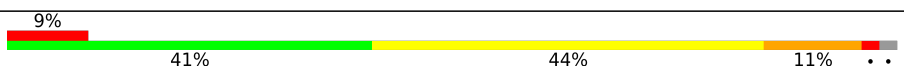
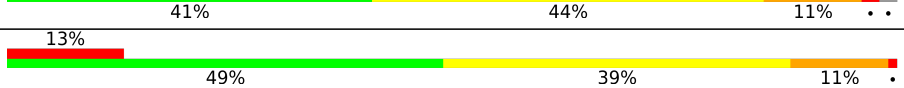
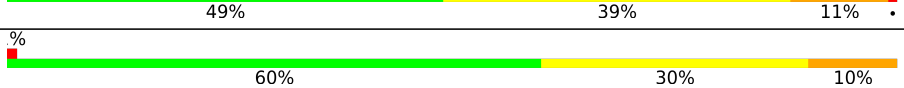
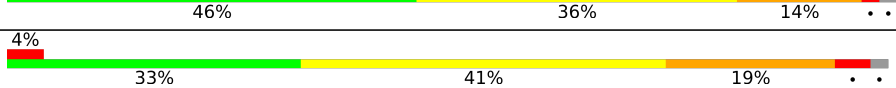
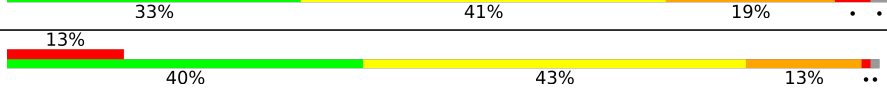
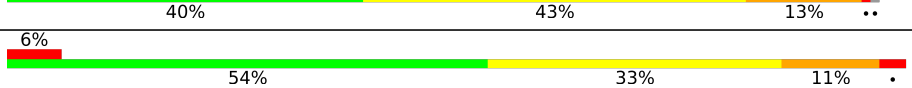
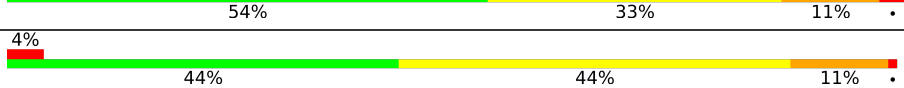
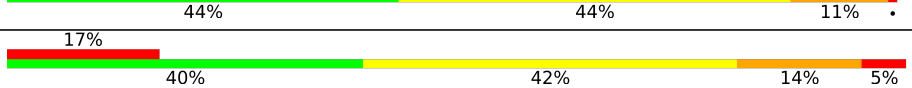
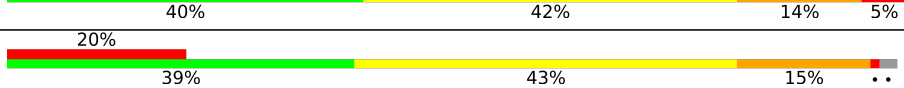
35	58	140	
36	25	122	
36	68	122	
37	35	150	
37	78	150	
38	45	141	
38	88	141	
39	55	118	
39	98	118	
40	65	112	

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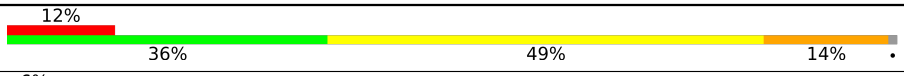
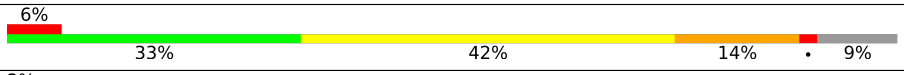
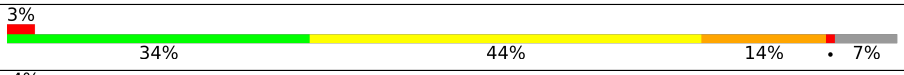
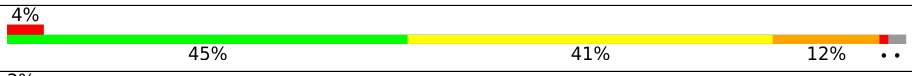
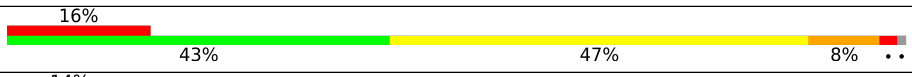
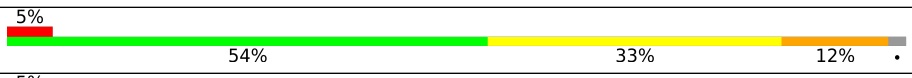
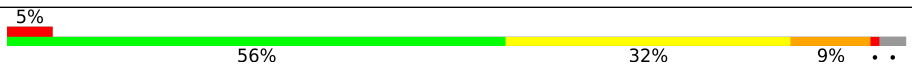
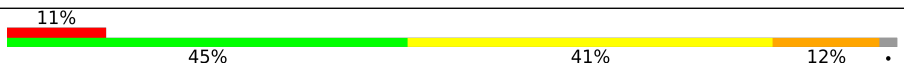
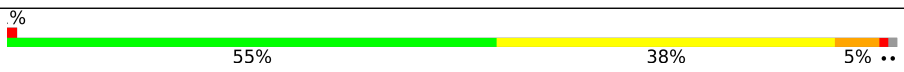
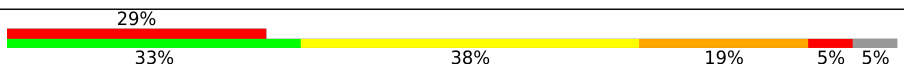
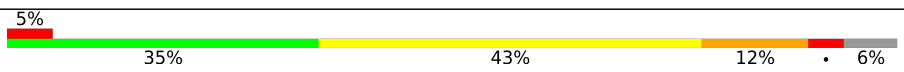
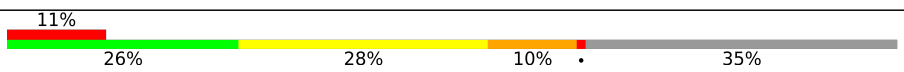
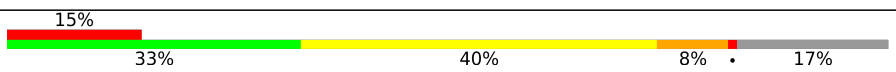
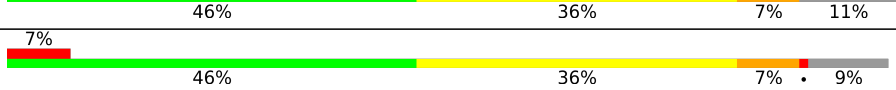
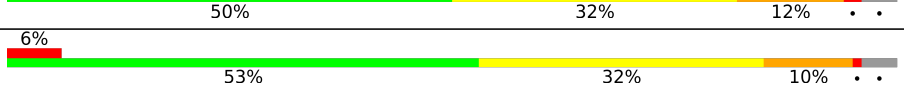
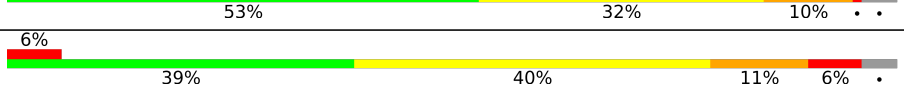
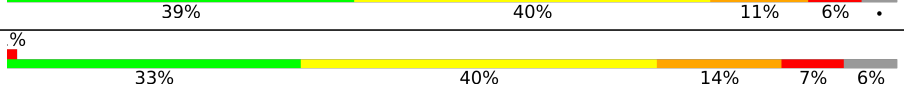
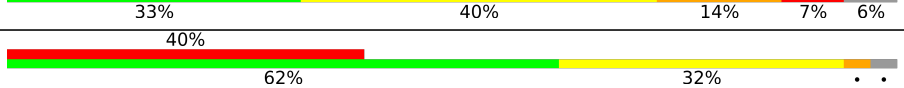
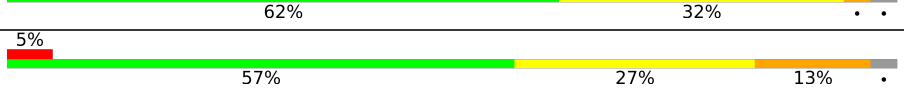
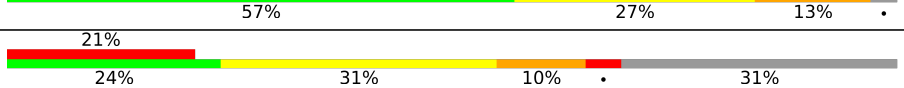
Mol	Chain	Length	Quality of chain
40	A8	112	
41	75	146	
41	B8	146	
42	85	118	
42	C8	118	
43	95	101	
43	D8	101	
44	A5	113	
44	E8	113	
45	B5	96	
45	F8	96	
46	C5	110	
46	G8	110	
47	D5	206	
47	H8	206	
48	E5	85	
48	I8	85	
49	F5	98	
49	J8	98	
50	G5	72	
50	K8	72	
51	H5	60	
51	L8	60	
52	M8	71	
53	J5	60	

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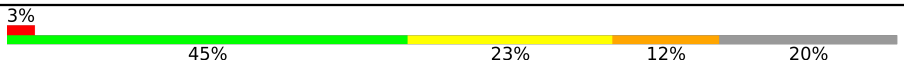
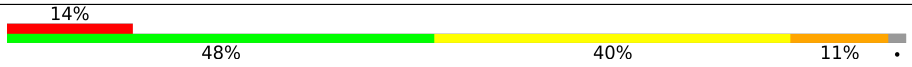
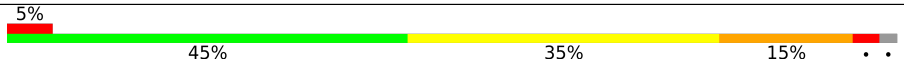
Mol	Chain	Length	Quality of chain
53	N8	60	
54	L5	49	
54	P8	49	
55	M5	65	
55	Q8	65	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	13	1616	-	-	-	X
56	MG	13	1643	-	-	-	X
56	MG	13	1661	-	-	-	X
56	MG	14	3028	-	-	-	X
56	MG	14	3131	-	-	-	X
56	MG	14	3141	-	-	-	X
56	MG	14	3149	-	-	-	X
56	MG	14	3151	-	-	-	X
56	MG	14	3161	-	-	-	X
56	MG	14	3169	-	-	-	X
56	MG	14	3181	-	-	-	X
56	MG	14	3189	-	-	-	X
56	MG	14	3194	-	-	-	X
56	MG	14	3200	-	-	-	X
56	MG	14	3209	-	-	-	X
56	MG	14	3216	-	-	-	X
56	MG	14	3234	-	-	-	X
56	MG	14	3238	-	-	-	X
56	MG	1G	1617	-	-	-	X
56	MG	1G	1632	-	-	-	X
56	MG	1G	1637	-	-	-	X
56	MG	1G	1641	-	-	-	X
56	MG	1G	1656	-	-	-	X
56	MG	1G	1661	-	-	-	X
56	MG	1G	1668	-	-	-	X
56	MG	1H	3015	-	-	-	X
56	MG	1H	3047	-	-	-	X
56	MG	1H	3076	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	1H	3081	-	-	-	X
56	MG	1H	3096	-	-	-	X
56	MG	1H	3136	-	-	-	X
56	MG	1H	3168	-	-	-	X
56	MG	1H	3194	-	-	-	X
56	MG	1H	3201	-	-	-	X
56	MG	1H	3214	-	-	-	X
56	MG	1H	3220	-	-	-	X
56	MG	1H	3230	-	-	-	X
56	MG	1H	3234	-	-	-	X
56	MG	1H	3267	-	-	-	X
56	MG	1H	3270	-	-	-	X
56	MG	21	302	-	-	-	X
56	MG	4K	101	-	-	-	X
56	MG	P8	101	-	-	-	X
57	SF4	32	302	-	-	X	-

2 Entry composition (i)

There are 59 unique types of molecules in this entry. The entry contains 297904 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
1	13	1496	Total	C	N	O	P	0	0	0
			32157	14313	5960	10388	1496			
1	1G	1506	Total	C	N	O	P	0	0	0
			32371	14409	6001	10456	1505			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	3E	207	Total	C	N	O	S	0	0	0
			1698	1064	338	289	7			
4	32	208	Total	C	N	O	S	0	0	0
			1702	1066	339	290	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	4E	149	Total	C	N	O	S	0	0	0
			1142	722	216	200	4			
5	42	149	Total	C	N	O	S	0	0	0
			1139	721	216	198	4			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	6E	154	Total	C	N	O	S	0	0	0
			1242	770	250	216	6			
7	62	140	Total	C	N	O	S	0	0	0
			1120	695	223	196	6			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	95	Total	C	N	O	S	0	0	0
			754	471	148	134	1			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	1A	80	Total 646	C 403	N 129	O 114	0	0	0

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	4I	119	Total 942	C 582	N 194	O 164	S 2	0	0	0
13	4A	111	Total 893	C 552	N 183	O 156	S 2	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	5I	60	Total 491	C 312	N 104	O 71	S 4	0	0	0
14	5A	59	Total 486	C 309	N 103	O 70	S 4	0	0	0

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

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

- 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	62	Total	C	N	O	S	0	0	0
			481	306	85	88	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			
20	BA	99	Total	C	N	O	S	0	0	0
			762	470	162	128	2			

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

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

- Molecule 22 is a RNA chain called tRNA-Lys.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
22	1K	72	Total 1542	C 691	N 269	O 509	P 72	S 1	0	0	0
22	1L	69	Total 1477	C 662	N 257	O 488	P 69	S 1	0	0	0

- Molecule 23 is a RNA chain called tRNA-fMet.

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

- Molecule 24 is a RNA chain called tRNA-Lys.

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

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	4K	21	Total 464	C 208	N 99	O 136	P 21	0	0	0
25	4L	19	Total 419	C 188	N 89	O 123	P 19	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	1H	2885	Total 62204	C 27685	N 11631	O 20000	P 2888	0	3	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	14	2855	Total	C	N	O	P	0	0	0
			61505	27372	11512	19766	2855			

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
27	16	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			
27	1J	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	71	133	Total	C	N	O	S	0	0	0
			1033	651	194	187	1			
28	79	57	Total	C	N	O		0	0	0
			456	283	91	82				

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	21	203	Total	C	N	O	S	0	0	0
			1558	985	298	269	6			
30	29	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	41	179	Total	C	N	O	S	0	0	0
			1457	931	265	257	4			
32	49	181	Total	C	N	O	S	0	0	0
			1468	937	268	259	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	51	174	Total	C	N	O	S	0	0	0
			1328	842	249	236	1			
33	59	70	Total	C	N	O		0	0	0
			543	341	110	92				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	61	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			
34	69	145	Total	C	N	O	S	0	0	0
			1131	723	200	207	1			

- 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	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

- 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	139	Total	C	N	O	S	0	0	0
			1104	705	209	184	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 881	C 556	N 176	O 149	0	0	0
40	65	110	Total 876	C 553	N 175	O 148	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	B8	136	Total 1124	C 700	N 231	O 192	S 1	0	0	0
41	75	133	Total 1109	C 691	N 228	O 189	S 1	0	0	0

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	F8	95	Total 743	C 482	N 134	O 126	S 1	0	0	0

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	H8	170	Total 1365	C 870	N 246	O 246	S 3	0	0	0
47	D5	133	Total 1079	C 694	N 194	O 189	S 2	0	0	0

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
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
52	M8	49	Total	C	N	O	S	0	0	0
			376	240	63	68	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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
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
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 MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	13	161	Total	Mg	0	0
			161	161		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	5E	1	Total Mg 1 1	0	0
56	5I	1	Total Mg 1 1	0	0
56	1K	1	Total Mg 1 1	0	0
56	2K	3	Total Mg 3 3	0	0
56	4K	1	Total Mg 1 1	0	0
56	1H	572	Total Mg 572 572	0	0
56	16	13	Total Mg 13 13	0	0
56	11	3	Total Mg 3 3	0	0
56	21	3	Total Mg 3 3	0	0
56	41	2	Total Mg 2 2	0	0
56	78	2	Total Mg 2 2	0	0
56	88	3	Total Mg 3 3	0	0
56	98	1	Total Mg 1 1	0	0
56	F8	1	Total Mg 1 1	0	0
56	I8	1	Total Mg 1 1	0	0
56	L8	1	Total Mg 1 1	0	0
56	P8	1	Total Mg 1 1	0	0
56	Q8	1	Total Mg 1 1	0	0
56	1G	126	Total Mg 126 126	0	0
56	32	1	Total Mg 1 1	0	0
56	42	2	Total Mg 2 2	0	0

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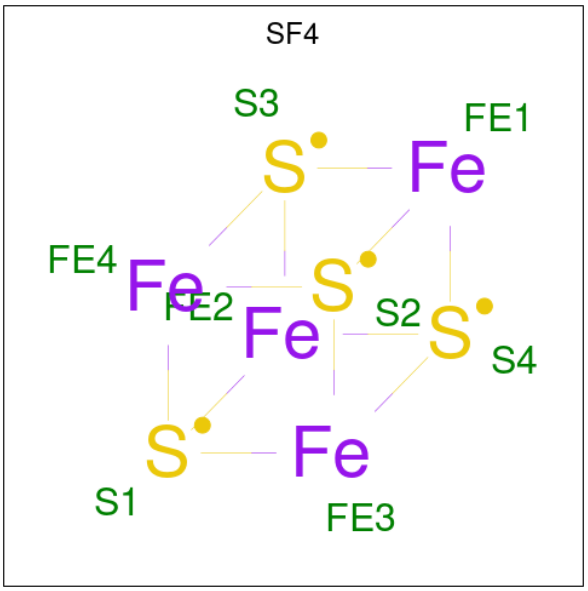
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	52	1	Total Mg 1 1	0	0
56	2A	1	Total Mg 1 1	0	0
56	2L	3	Total Mg 3 3	0	0
56	14	471	Total Mg 471 471	0	0
56	1J	11	Total Mg 11 11	0	0
56	29	1	Total Mg 1 1	0	0
56	39	2	Total Mg 2 2	0	0
56	25	2	Total Mg 2 2	0	0
56	35	3	Total Mg 3 3	0	0
56	45	2	Total Mg 2 2	0	0
56	B5	1	Total Mg 1 1	0	0
56	E5	3	Total Mg 3 3	0	0
56	M5	1	Total Mg 1 1	0	0

- Molecule 57 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	3E	1	Total Fe S 8 4 4	0	0
57	32	1	Total Fe S 8 4 4	0	0

- Molecule 58 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	5I	1	Total Zn 1 1	0	0
58	G8	1	Total Zn 1 1	0	0
58	5A	1	Total Zn 1 1	0	0
58	C5	1	Total Zn 1 1	0	0

- Molecule 59 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	13	389	Total O 389 389	0	0
59	1E	1	Total O 1 1	0	0
59	3E	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	4E	1	Total O 1 1	0	0
59	8E	3	Total O 3 3	0	0
59	1I	2	Total O 2 2	0	0
59	3I	2	Total O 2 2	0	0
59	4I	2	Total O 2 2	0	0
59	5I	2	Total O 2 2	0	0
59	6I	3	Total O 3 3	0	0
59	7I	1	Total O 1 1	0	0
59	1F	2	Total O 2 2	0	0
59	1K	8	Total O 8 8	0	0
59	2K	6	Total O 6 6	0	0
59	3K	1	Total O 1 1	0	0
59	4K	5	Total O 5 5	0	0
59	1H	1539	Total O 1539 1539	0	0
59	16	35	Total O 35 35	0	0
59	11	16	Total O 16 16	0	0
59	21	7	Total O 7 7	0	0
59	31	6	Total O 6 6	0	0
59	41	1	Total O 1 1	0	0
59	58	2	Total O 2 2	0	0
59	68	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	78	8	Total O 8 8	0	0
59	88	8	Total O 8 8	0	0
59	C8	4	Total O 4 4	0	0
59	D8	2	Total O 2 2	0	0
59	F8	2	Total O 2 2	0	0
59	G8	1	Total O 1 1	0	0
59	I8	7	Total O 7 7	0	0
59	J8	2	Total O 2 2	0	0
59	K8	1	Total O 1 1	0	0
59	L8	3	Total O 3 3	0	0
59	P8	1	Total O 1 1	0	0
59	Q8	8	Total O 8 8	0	0
59	1G	297	Total O 297 297	0	0
59	32	2	Total O 2 2	0	0
59	42	1	Total O 1 1	0	0
59	52	4	Total O 4 4	0	0
59	62	3	Total O 3 3	0	0
59	2A	3	Total O 3 3	0	0
59	3A	1	Total O 1 1	0	0
59	6A	1	Total O 1 1	0	0
59	7A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	9A	2	Total O 2 2	0	0
59	BA	5	Total O 5 5	0	0
59	1L	1	Total O 1 1	0	0
59	2L	6	Total O 6 6	0	0
59	4L	5	Total O 5 5	0	0
59	14	1225	Total O 1225 1225	0	0
59	1J	12	Total O 12 12	0	0
59	19	11	Total O 11 11	0	0
59	29	5	Total O 5 5	0	0
59	39	7	Total O 7 7	0	0
59	25	6	Total O 6 6	0	0
59	35	8	Total O 8 8	0	0
59	45	4	Total O 4 4	0	0
59	55	3	Total O 3 3	0	0
59	85	1	Total O 1 1	0	0
59	95	1	Total O 1 1	0	0
59	A5	1	Total O 1 1	0	0
59	B5	1	Total O 1 1	0	0
59	C5	3	Total O 3 3	0	0
59	F5	1	Total O 1 1	0	0
59	H5	2	Total O 2 2	0	0

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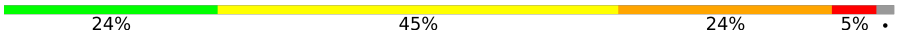
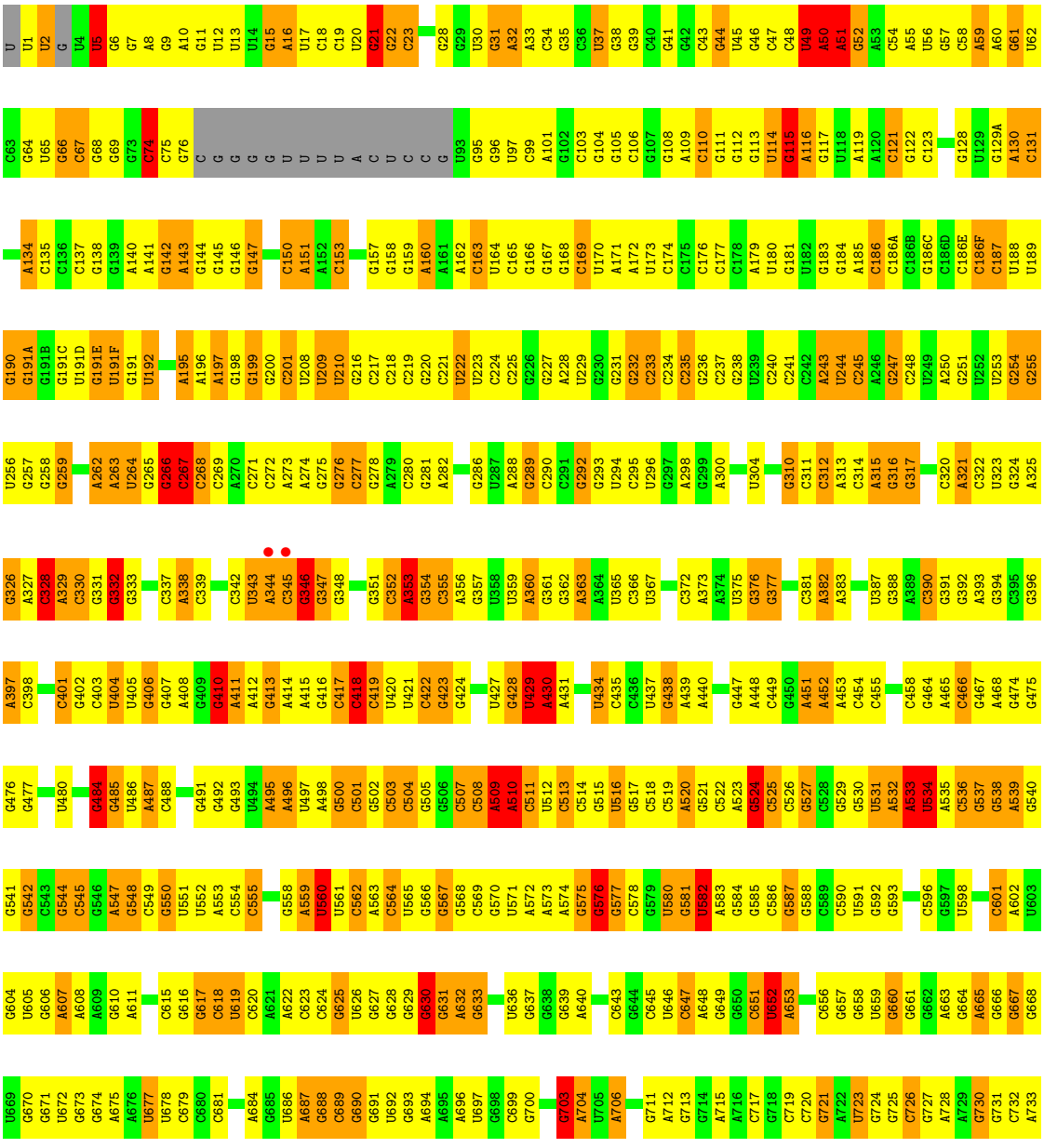
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	L5	3	Total O 3 3	0	0
59	M5	6	Total O 6 6	0	0

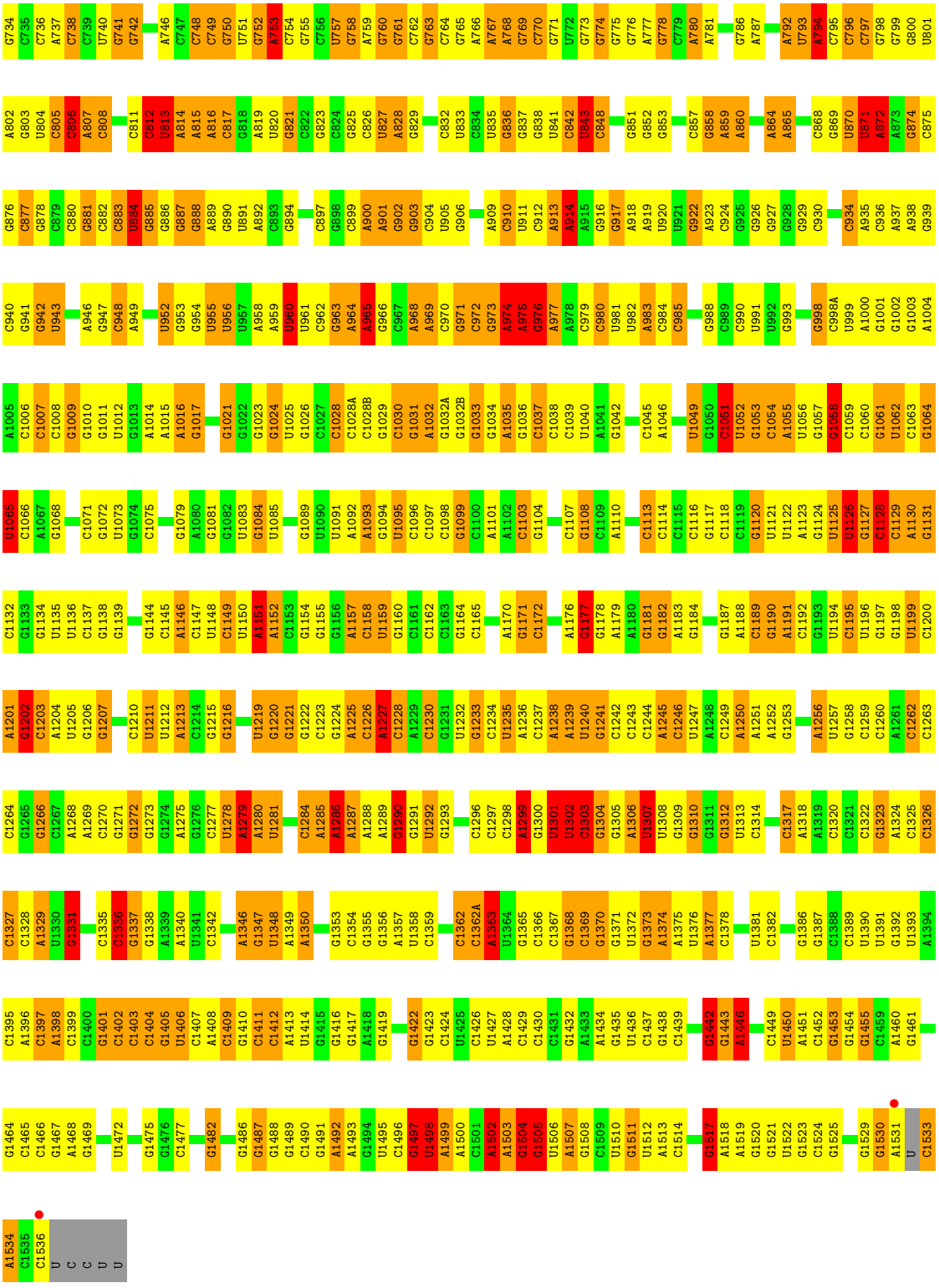
3 Residue-property plots (i)

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

- Molecule 1: 16S ribosomal RNA

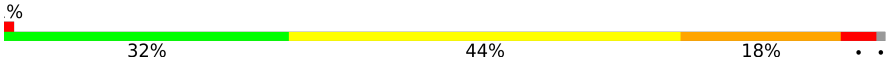
Chain 13: 

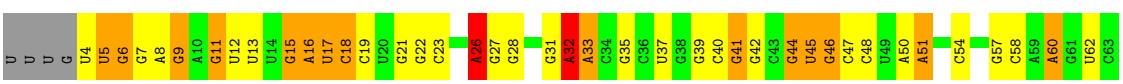


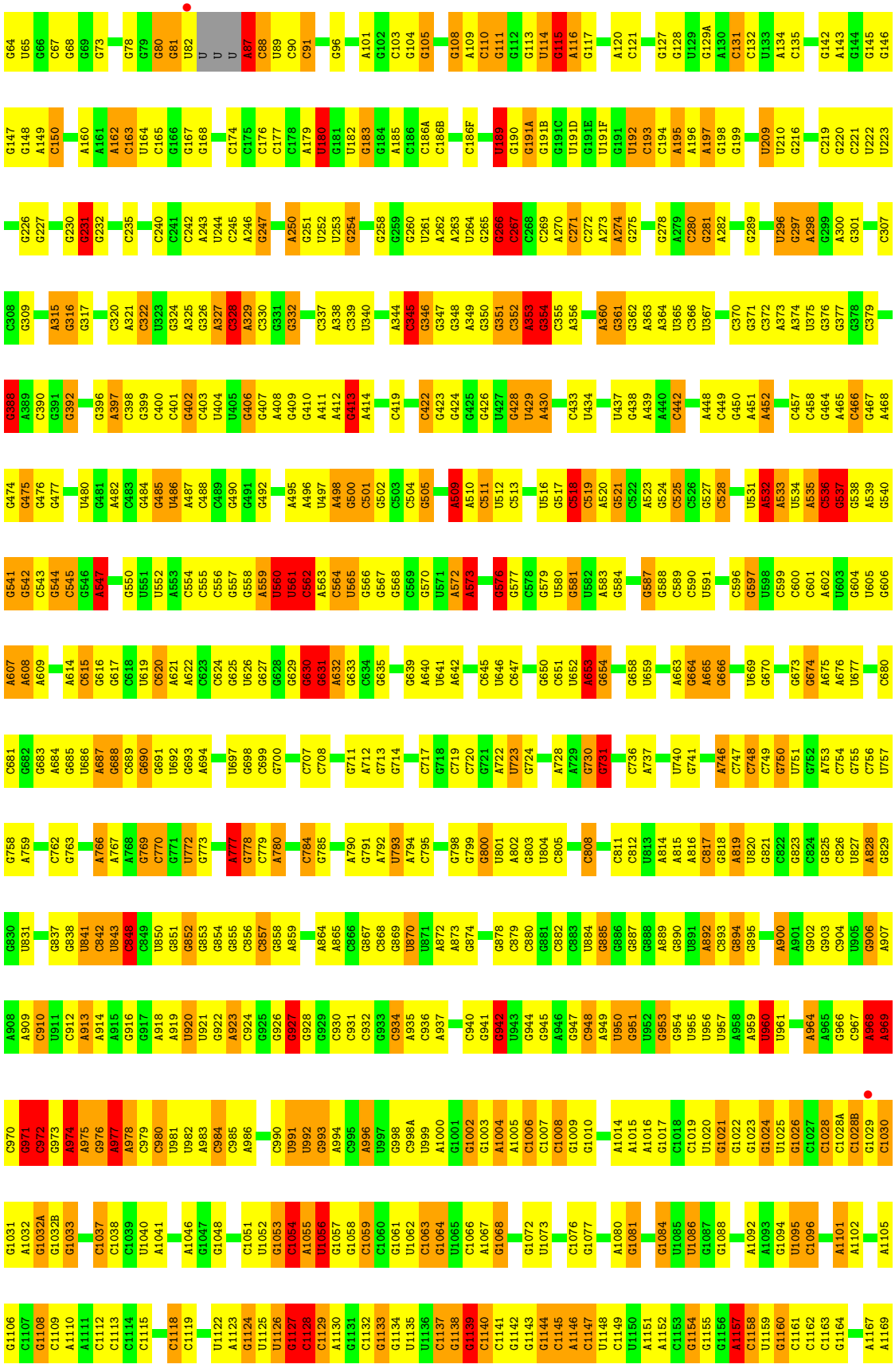


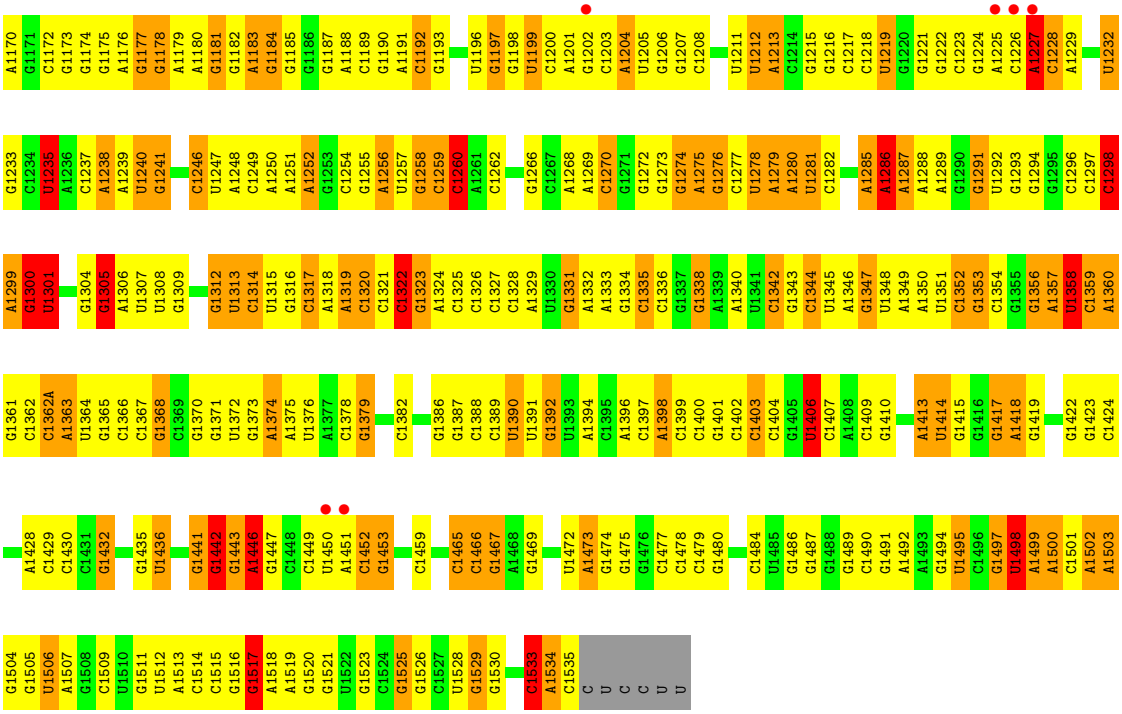
• Molecule 1: 16S ribosomal RNA

Chain 1G:



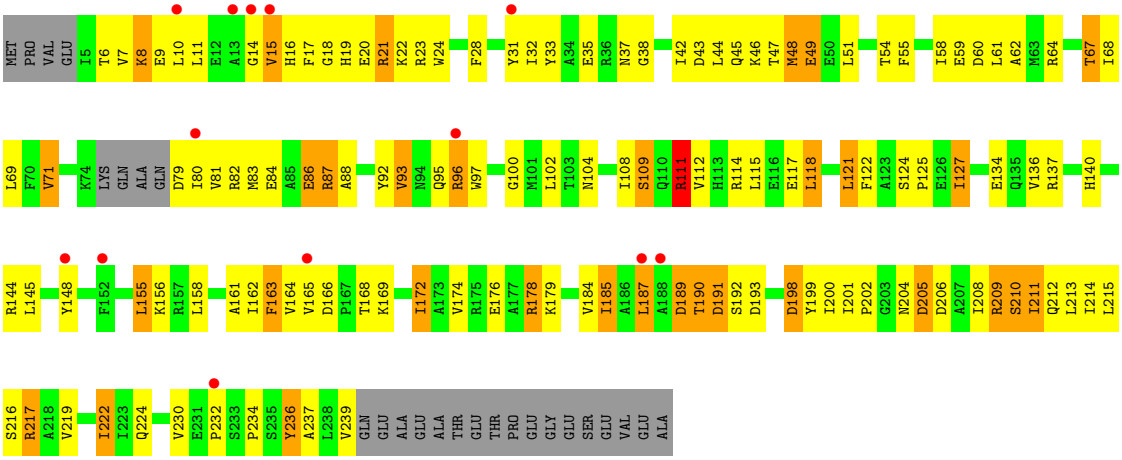






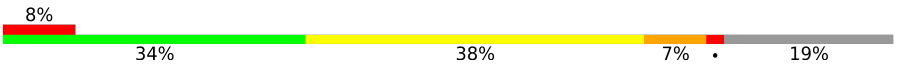
• Molecule 2: 30S ribosomal protein S2

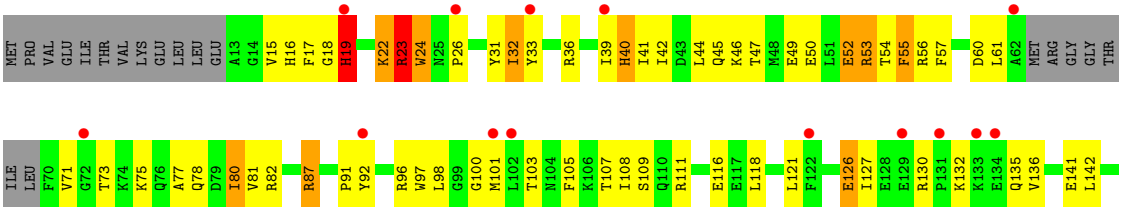
Chain 1E:

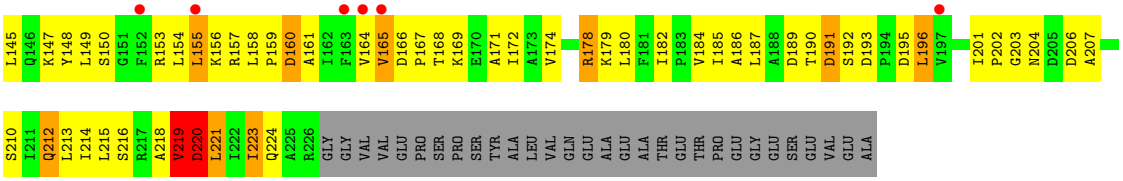


• Molecule 2: 30S ribosomal protein S2

Chain 12:

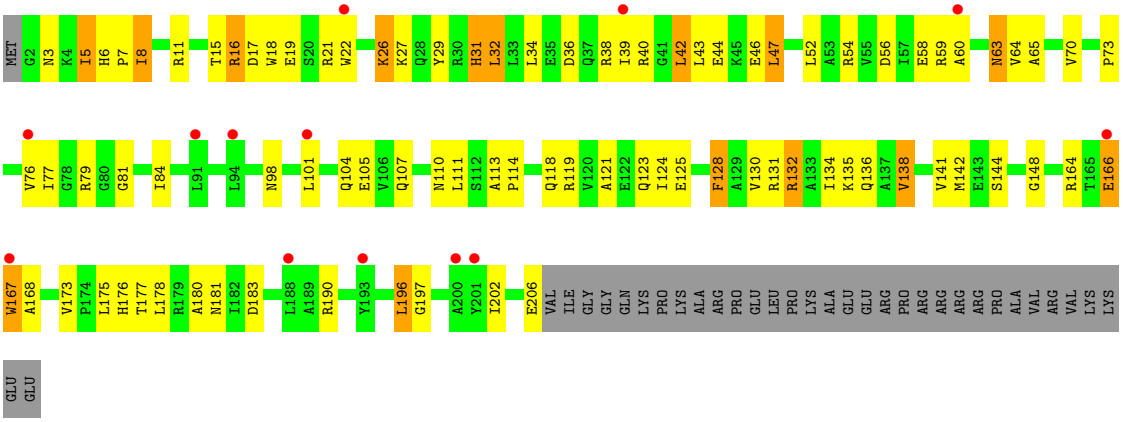






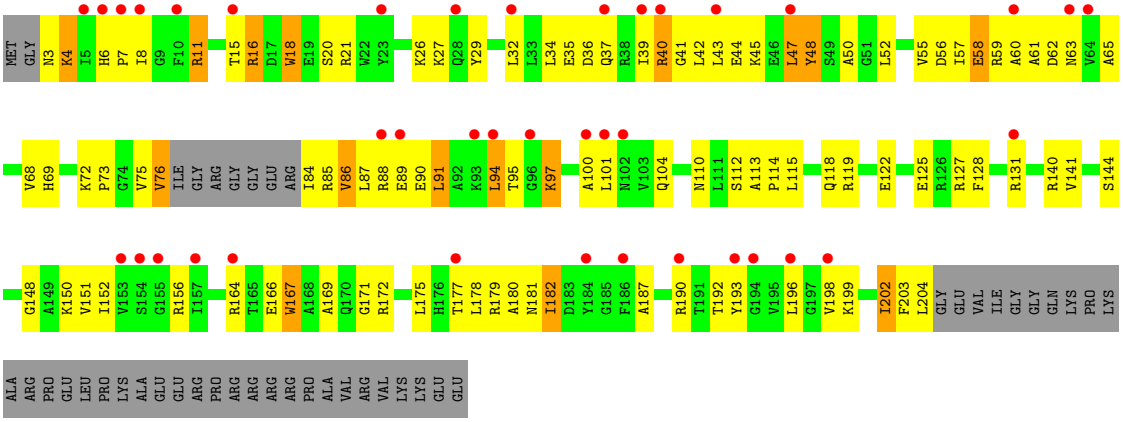
• Molecule 3: 30S ribosomal protein S3

Chain 2E:



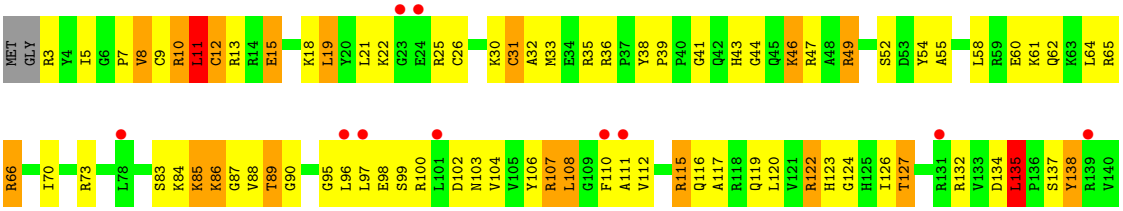
• Molecule 3: 30S ribosomal protein S3

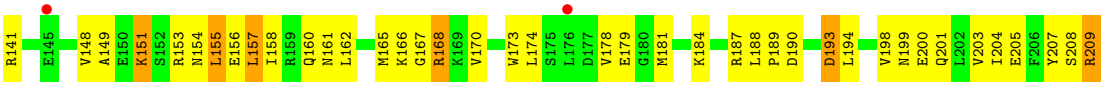
Chain 22:



• Molecule 4: 30S ribosomal protein S4

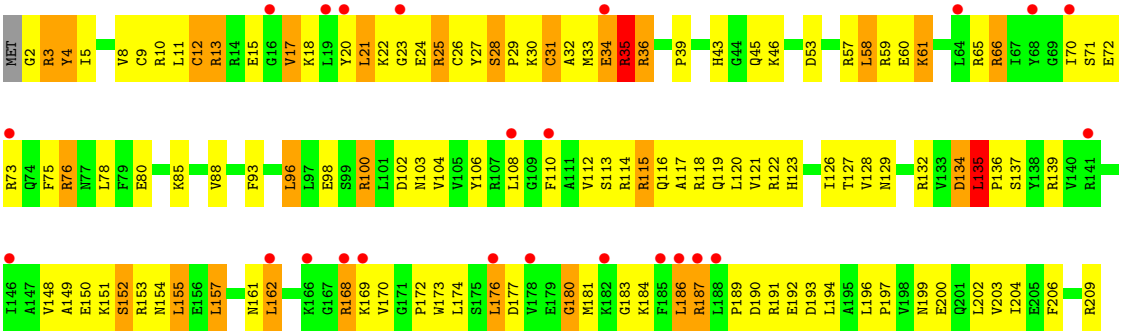
Chain 3E:





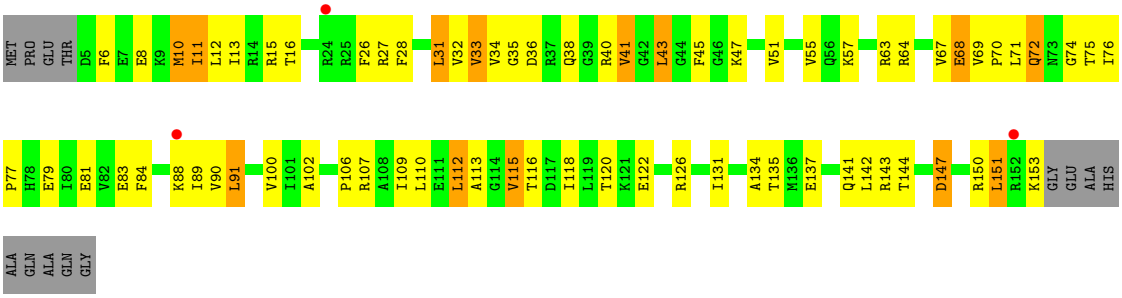
• Molecule 4: 30S ribosomal protein S4

Chain 32:



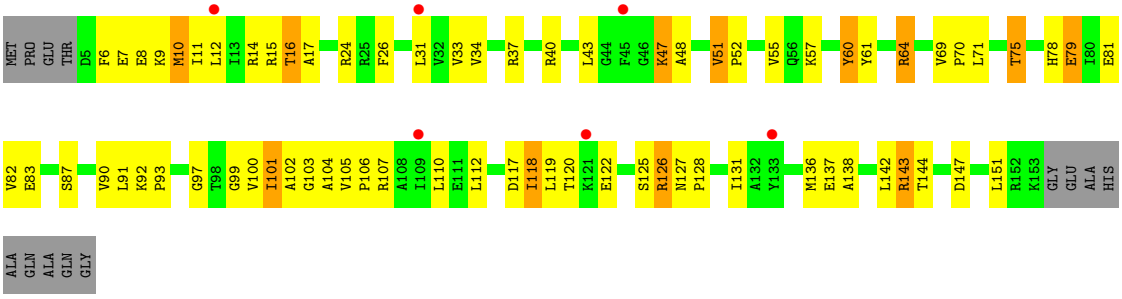
• Molecule 5: 30S ribosomal protein S5

Chain 4E:



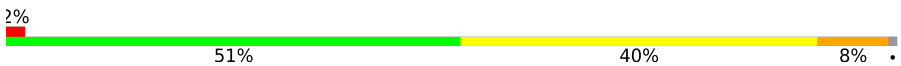
• Molecule 5: 30S ribosomal protein S5

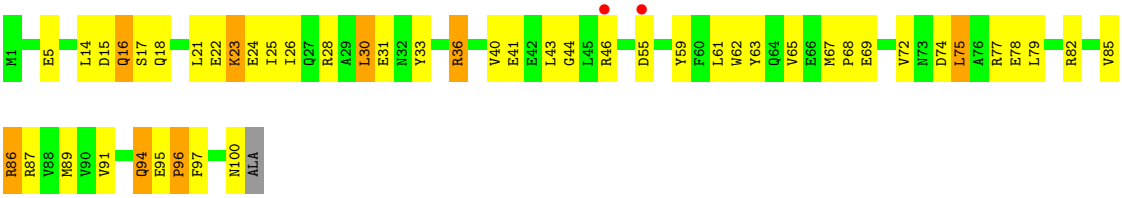
Chain 42:



• Molecule 6: 30S ribosomal protein S6

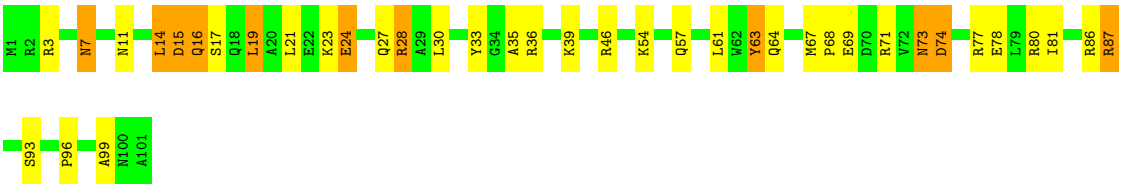
Chain 5E:





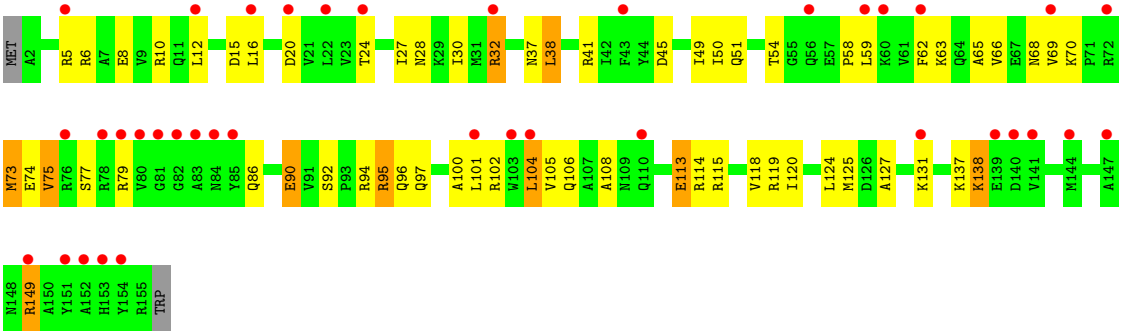
• Molecule 6: 30S ribosomal protein S6

Chain 52:



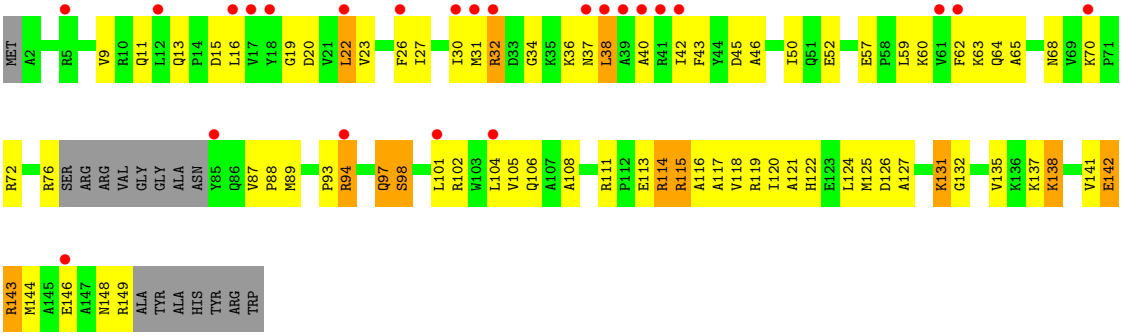
• Molecule 7: 30S ribosomal protein S7

Chain 6E:



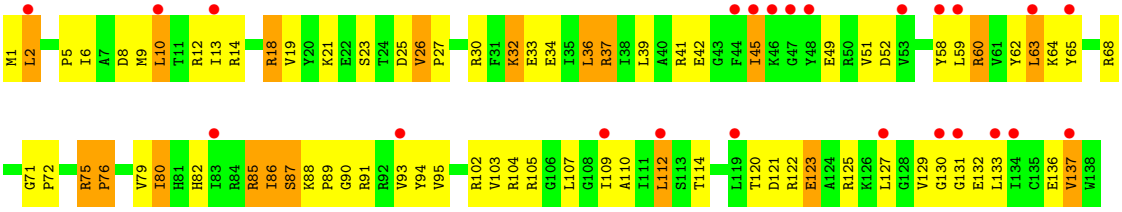
• Molecule 7: 30S ribosomal protein S7

Chain 62:



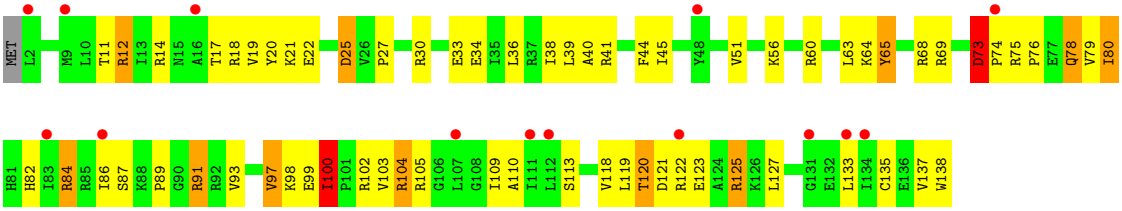
• Molecule 8: 30S ribosomal protein S8

Chain 7E:



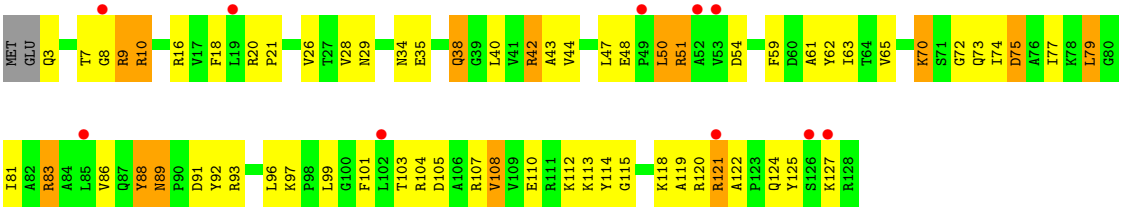
• Molecule 8: 30S ribosomal protein S8

Chain 72:



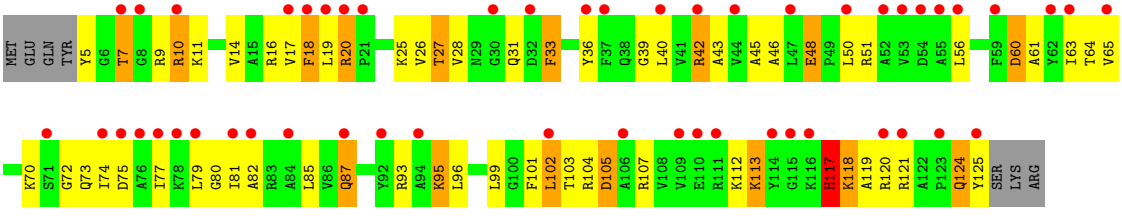
• Molecule 9: 30S ribosomal protein S9

Chain 8E:



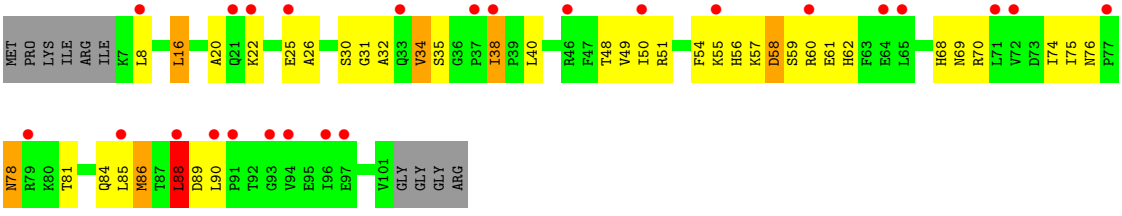
• Molecule 9: 30S ribosomal protein S9

Chain 82:



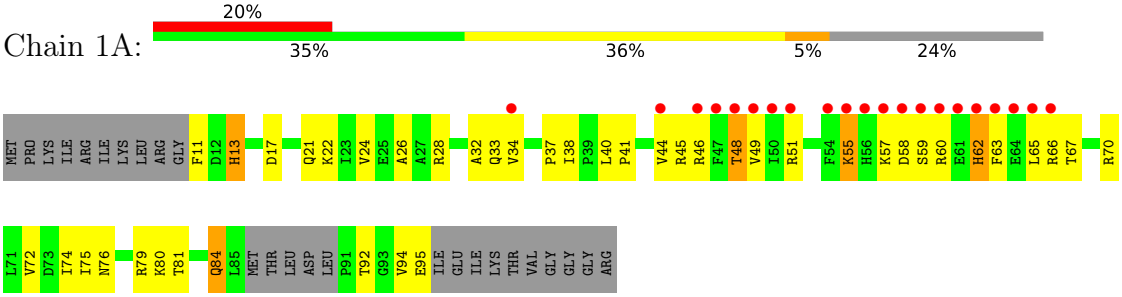
• Molecule 10: 30S ribosomal protein S10

Chain 1I:



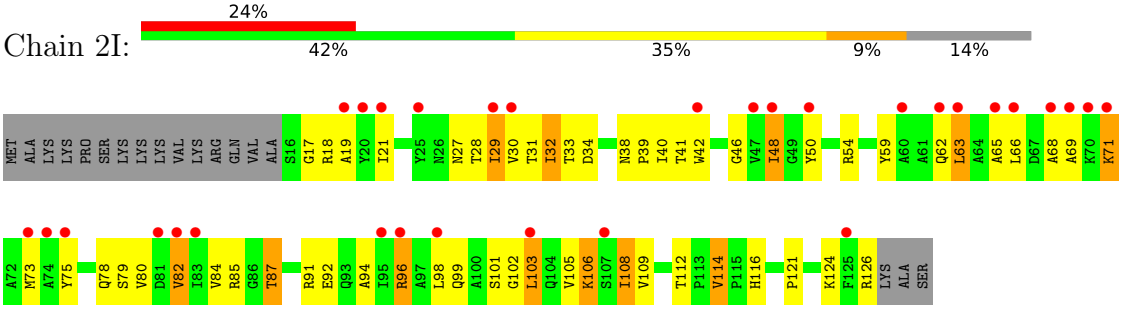
• Molecule 10: 30S ribosomal protein S10

Chain 1A:



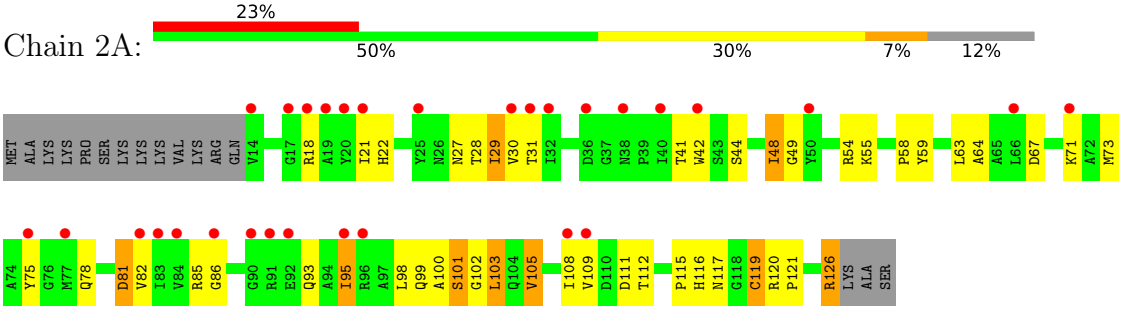
• Molecule 11: 30S ribosomal protein S11

Chain 2I:



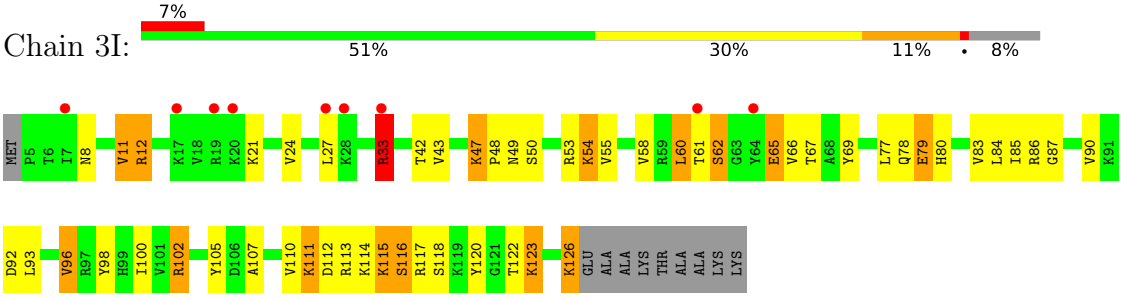
• Molecule 11: 30S ribosomal protein S11

Chain 2A:



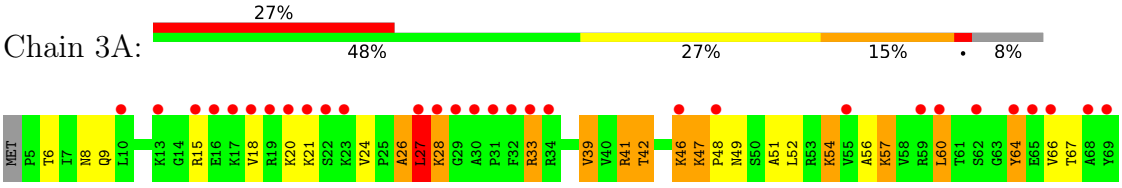
• Molecule 12: 30S ribosomal protein S12

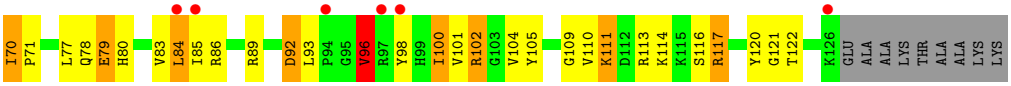
Chain 3I:



• Molecule 12: 30S ribosomal protein S12

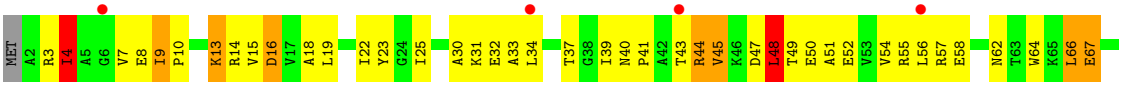
Chain 3A:

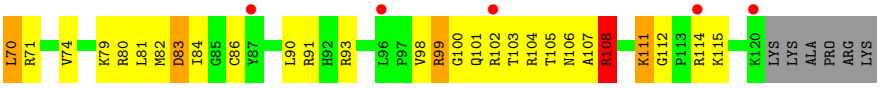




• Molecule 13: 30S ribosomal protein S13

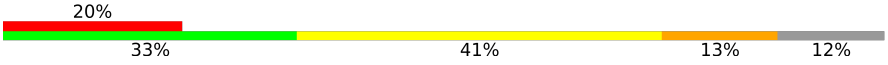
Chain 4I:

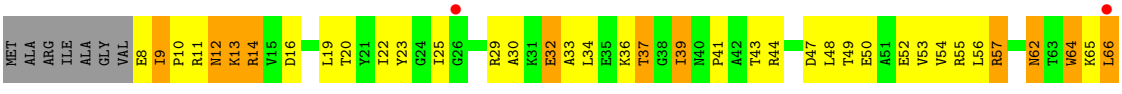


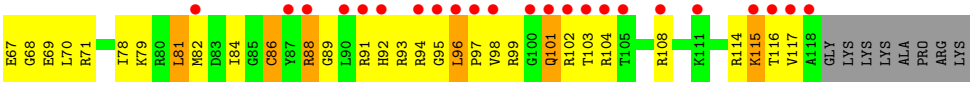


• Molecule 13: 30S ribosomal protein S13

Chain 4A:

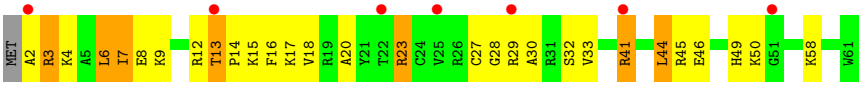






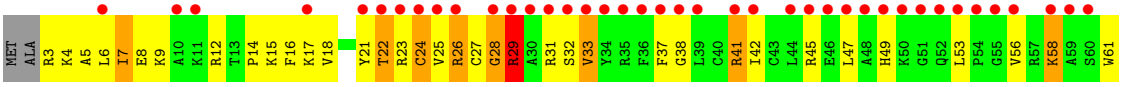
• Molecule 14: 30S ribosomal protein S14 type Z

Chain 5I:



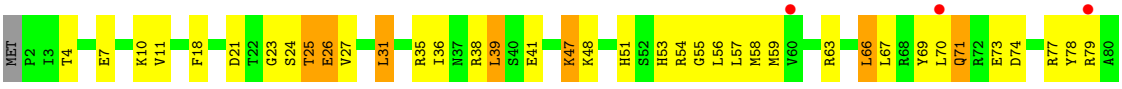
• Molecule 14: 30S ribosomal protein S14 type Z

Chain 5A:



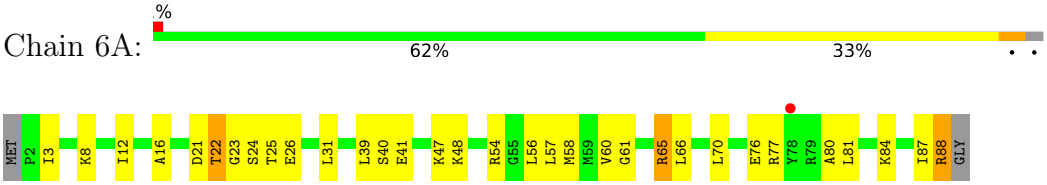
• Molecule 15: 30S ribosomal protein S15

Chain 6I:



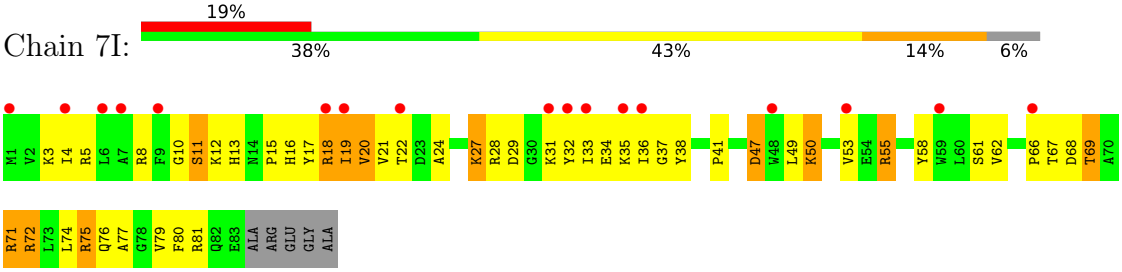
• Molecule 15: 30S ribosomal protein S15

Chain 6A:



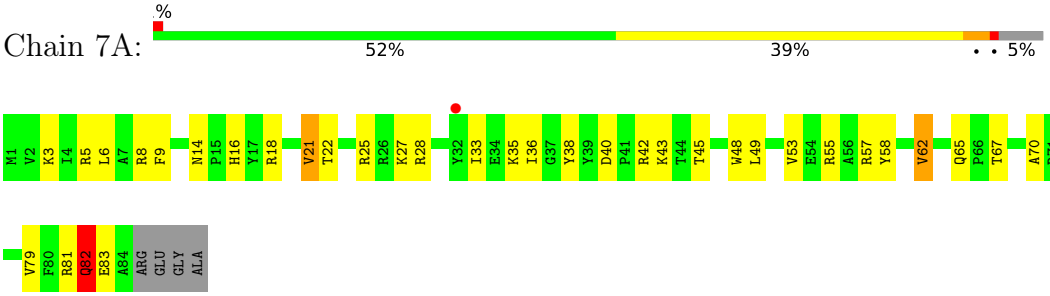
• Molecule 16: 30S ribosomal protein S16

Chain 7I:



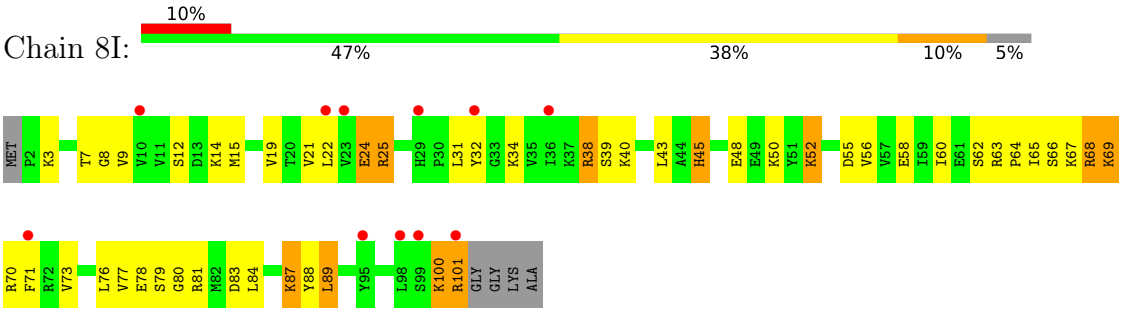
• Molecule 16: 30S ribosomal protein S16

Chain 7A:



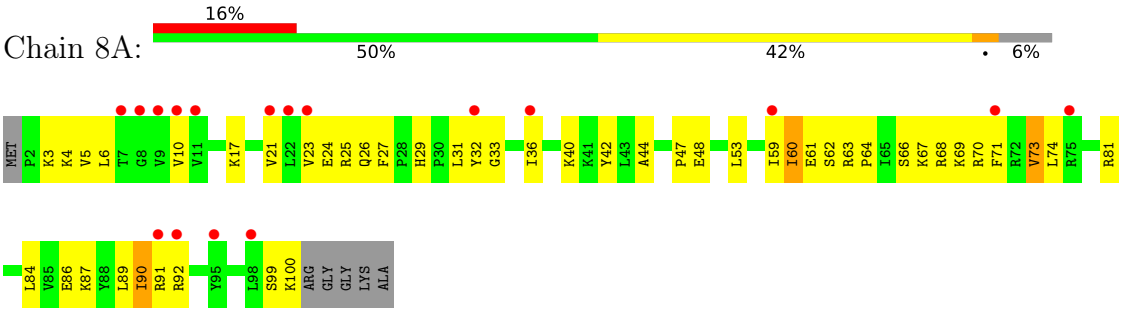
• Molecule 17: 30S ribosomal protein S17

Chain 8I:



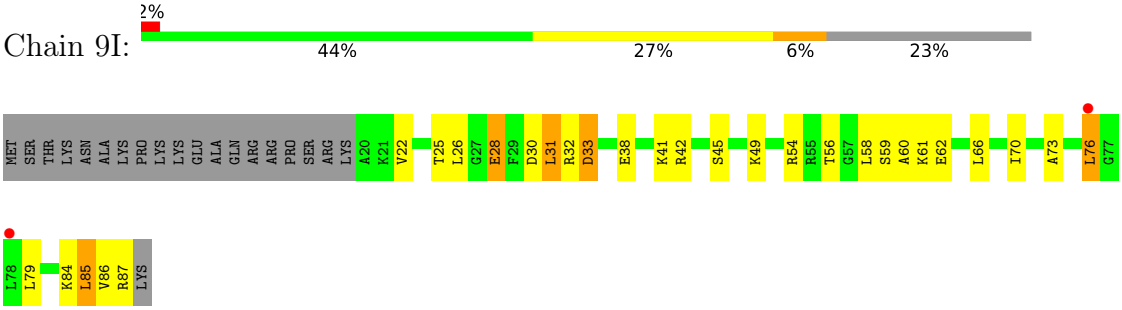
• Molecule 17: 30S ribosomal protein S17

Chain 8A:



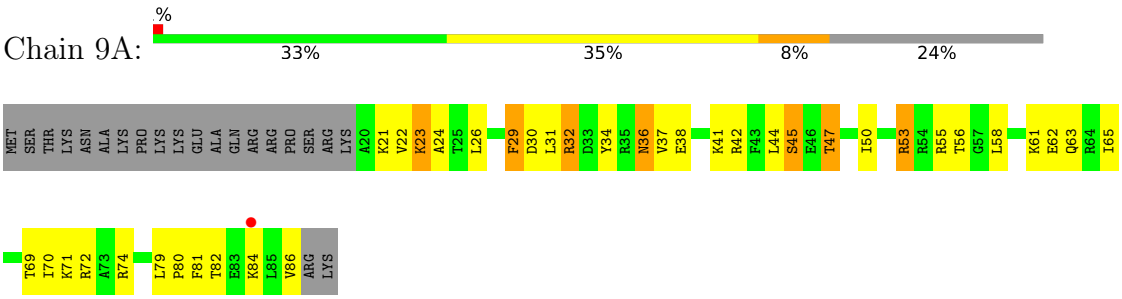
• Molecule 18: 30S ribosomal protein S18

Chain 9I:



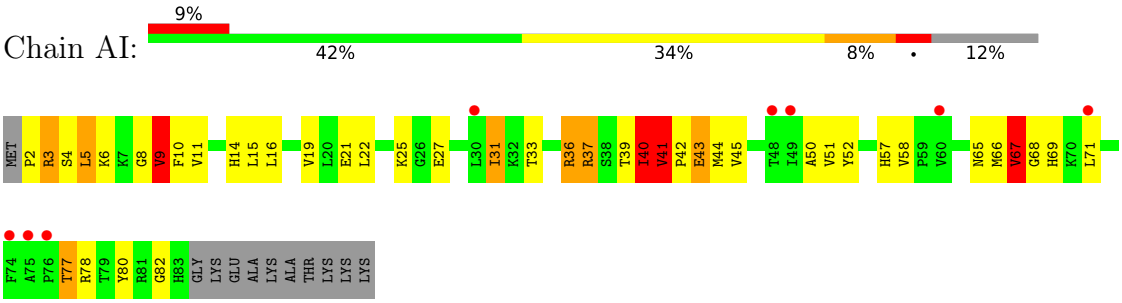
• Molecule 18: 30S ribosomal protein S18

Chain 9A:



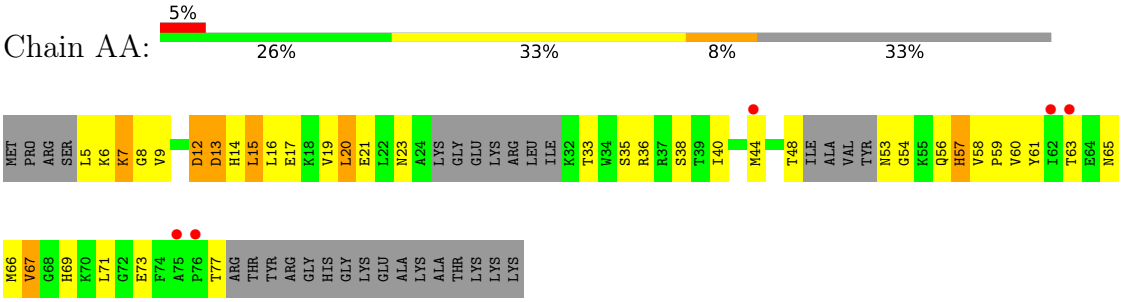
• Molecule 19: 30S ribosomal protein S19

Chain AI:



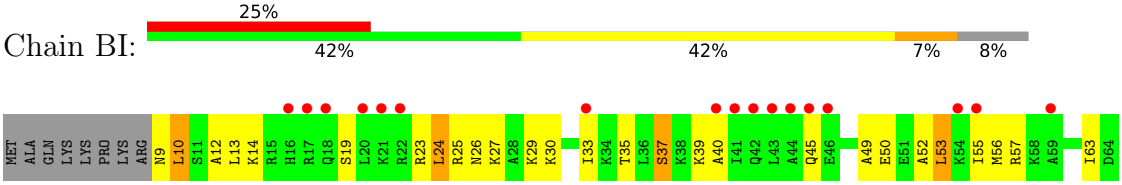
• Molecule 19: 30S ribosomal protein S19

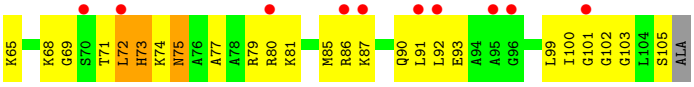
Chain AA:



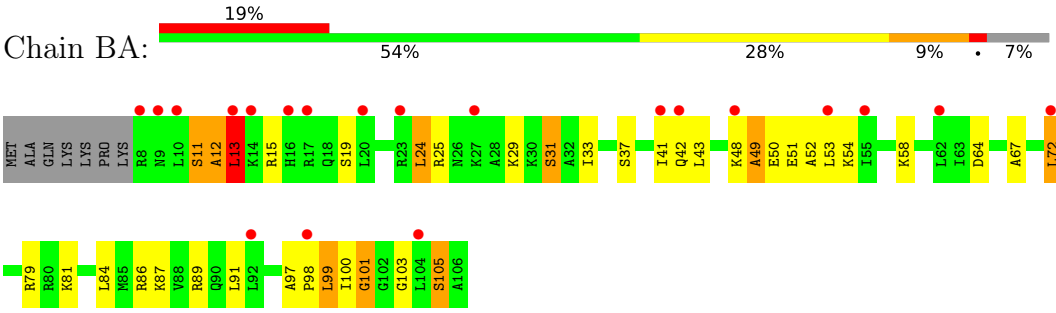
• Molecule 20: 30S ribosomal protein S20

Chain BI:



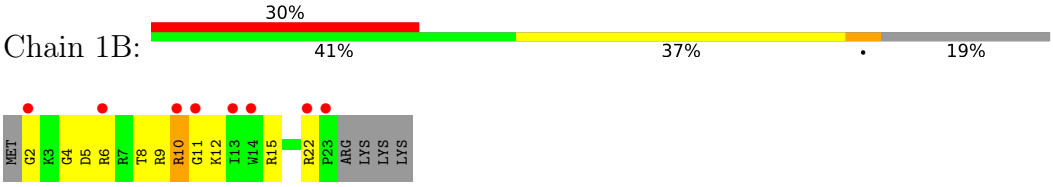


• Molecule 20: 30S ribosomal protein S20

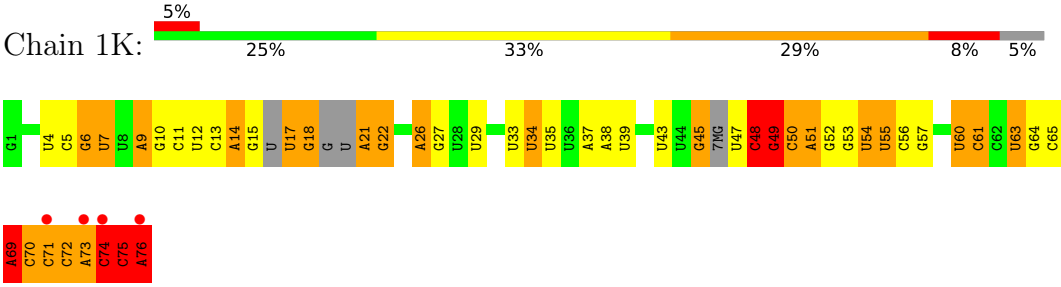


• Molecule 21: 30S ribosomal protein Thx

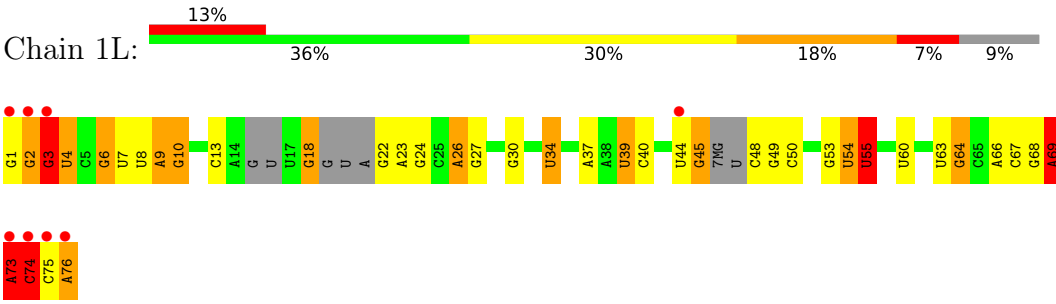
• Molecule 21: 30S ribosomal protein Thx



• Molecule 22: tRNA-Lys

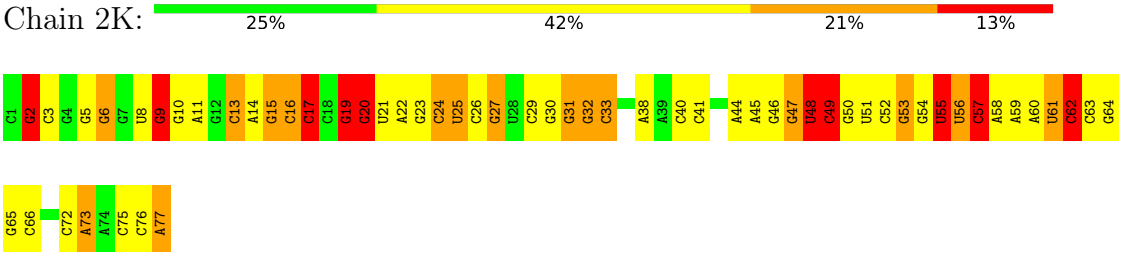


• Molecule 22: tRNA-Lys



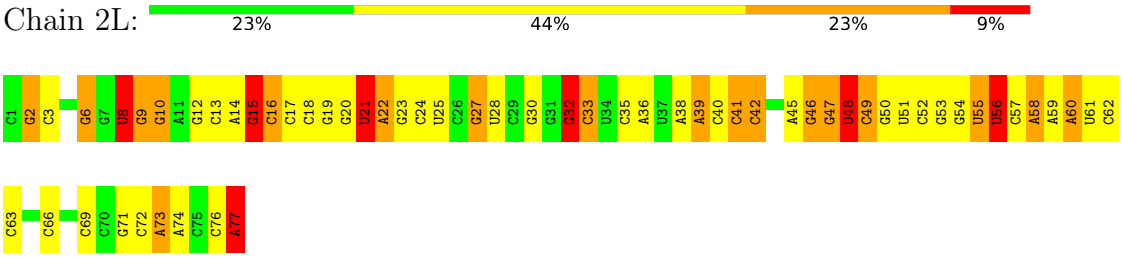
• Molecule 23: tRNA-fMet

Chain 2K:



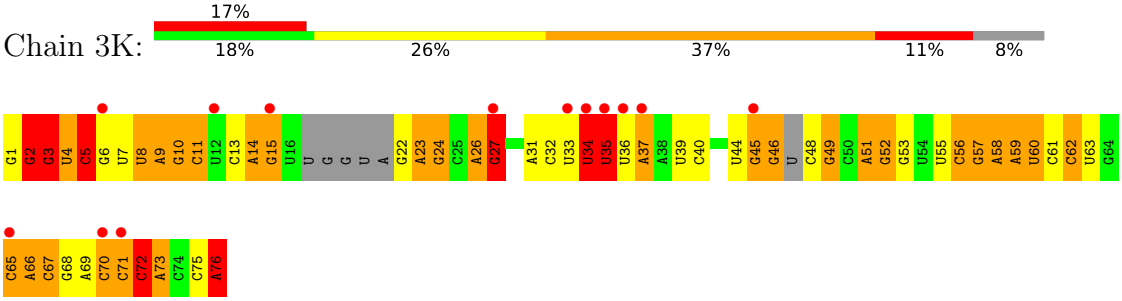
• Molecule 23: tRNA-fMet

Chain 2L:



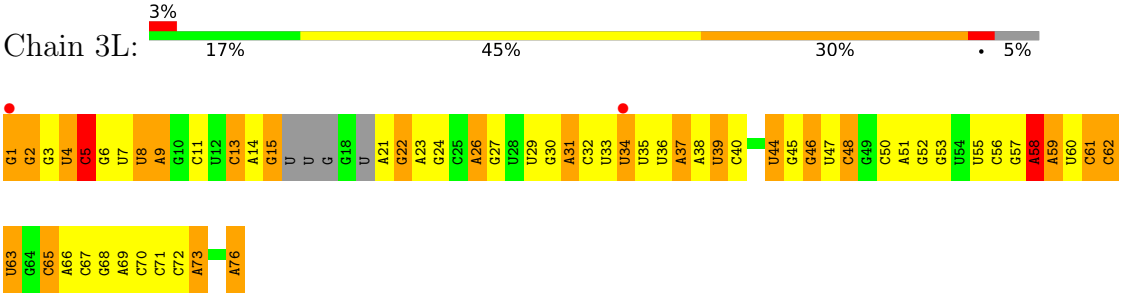
• Molecule 24: tRNA-Lys

Chain 3K:



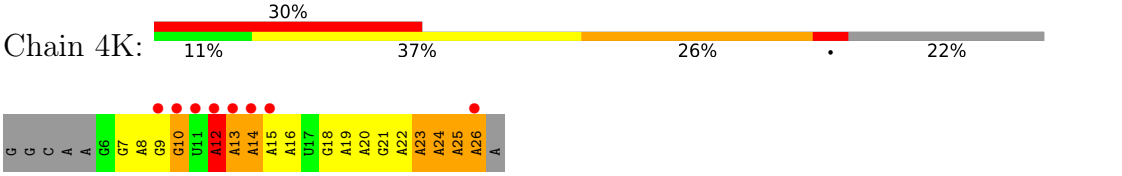
• Molecule 24: tRNA-Lys

Chain 3L:



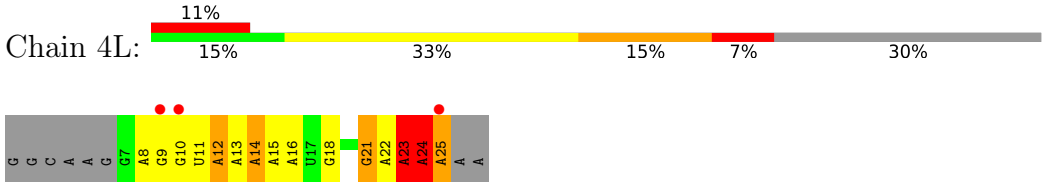
• Molecule 25: mRNA

Chain 4K:



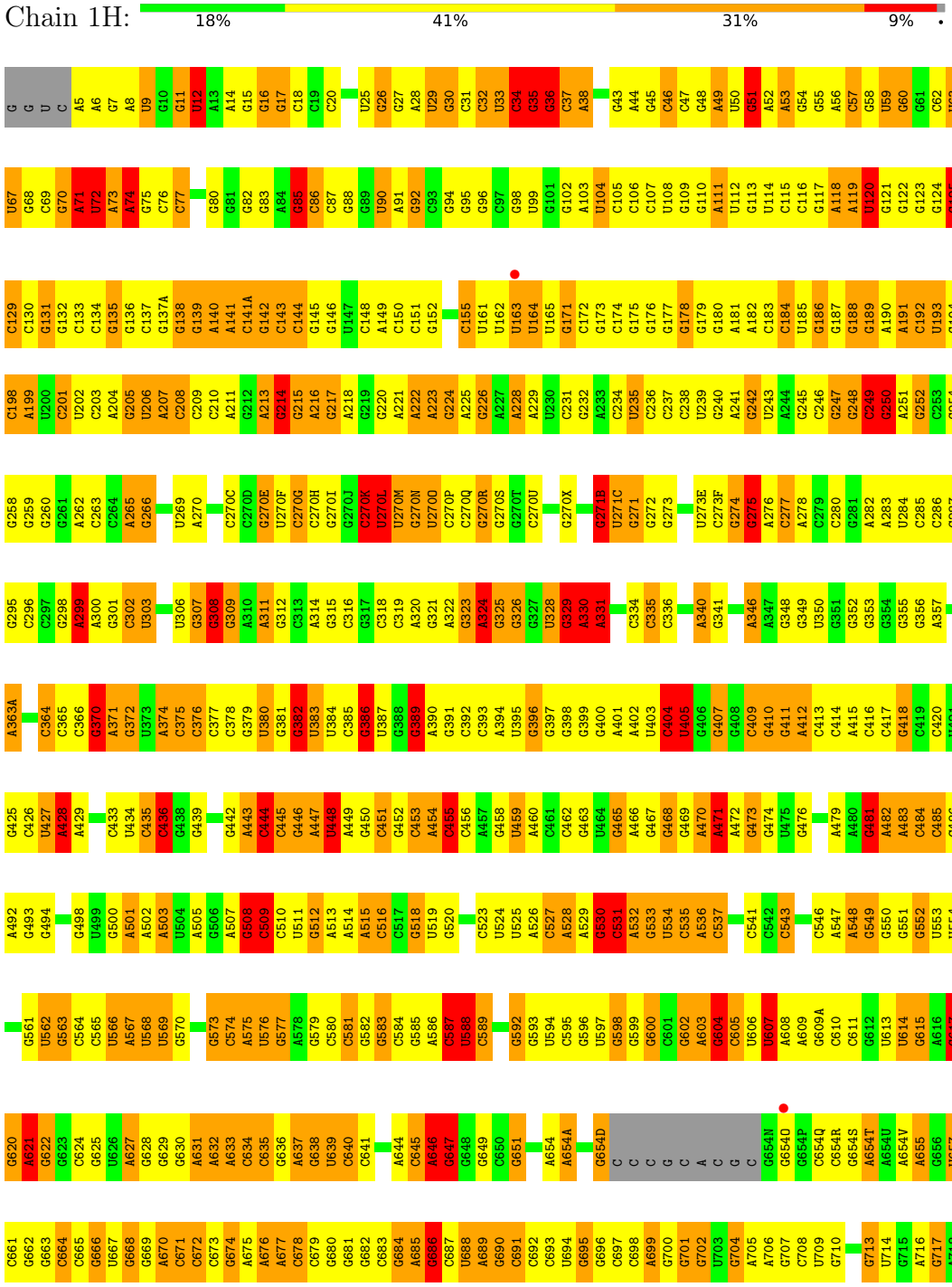
• Molecule 25: mRNA

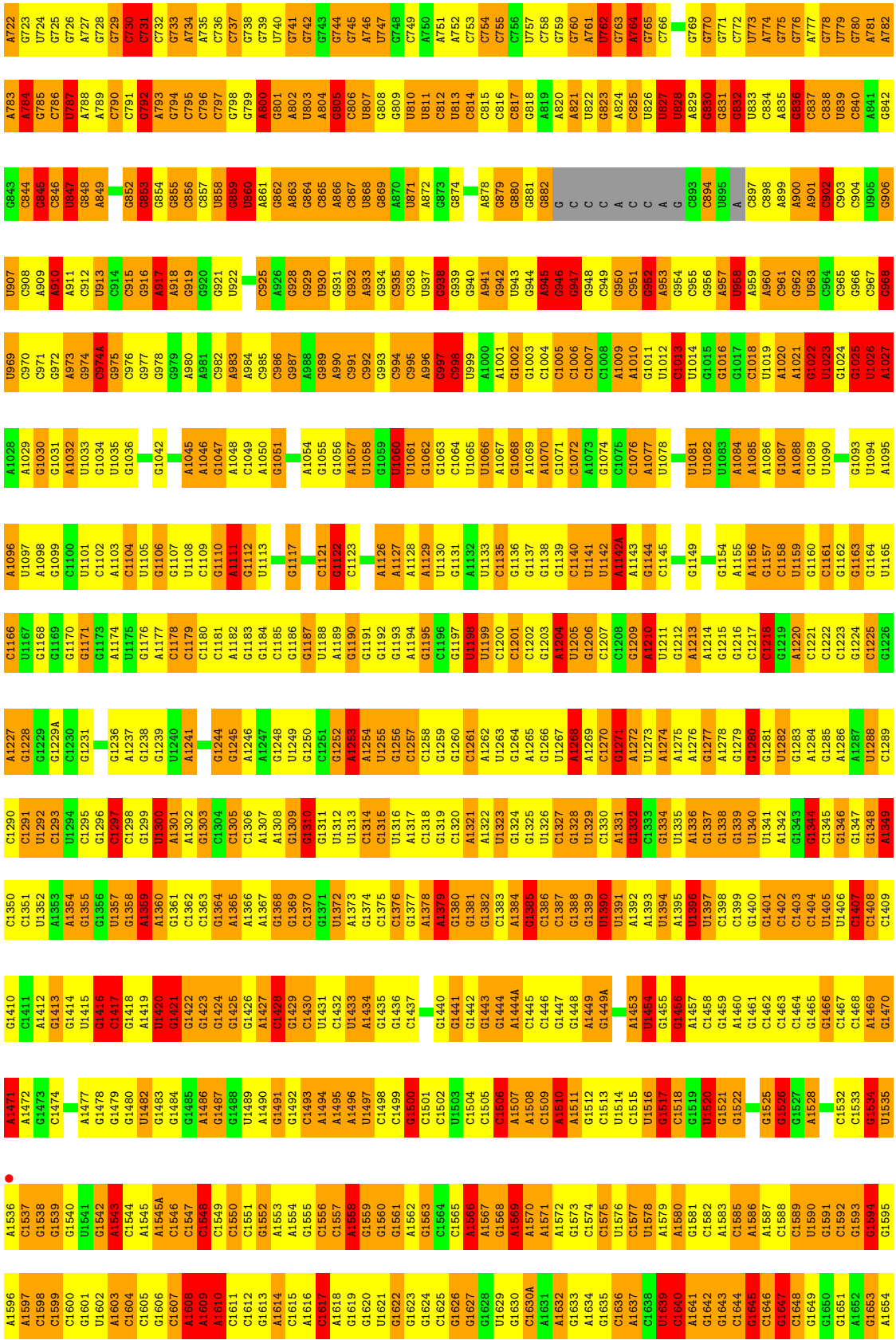
Chain 4L:

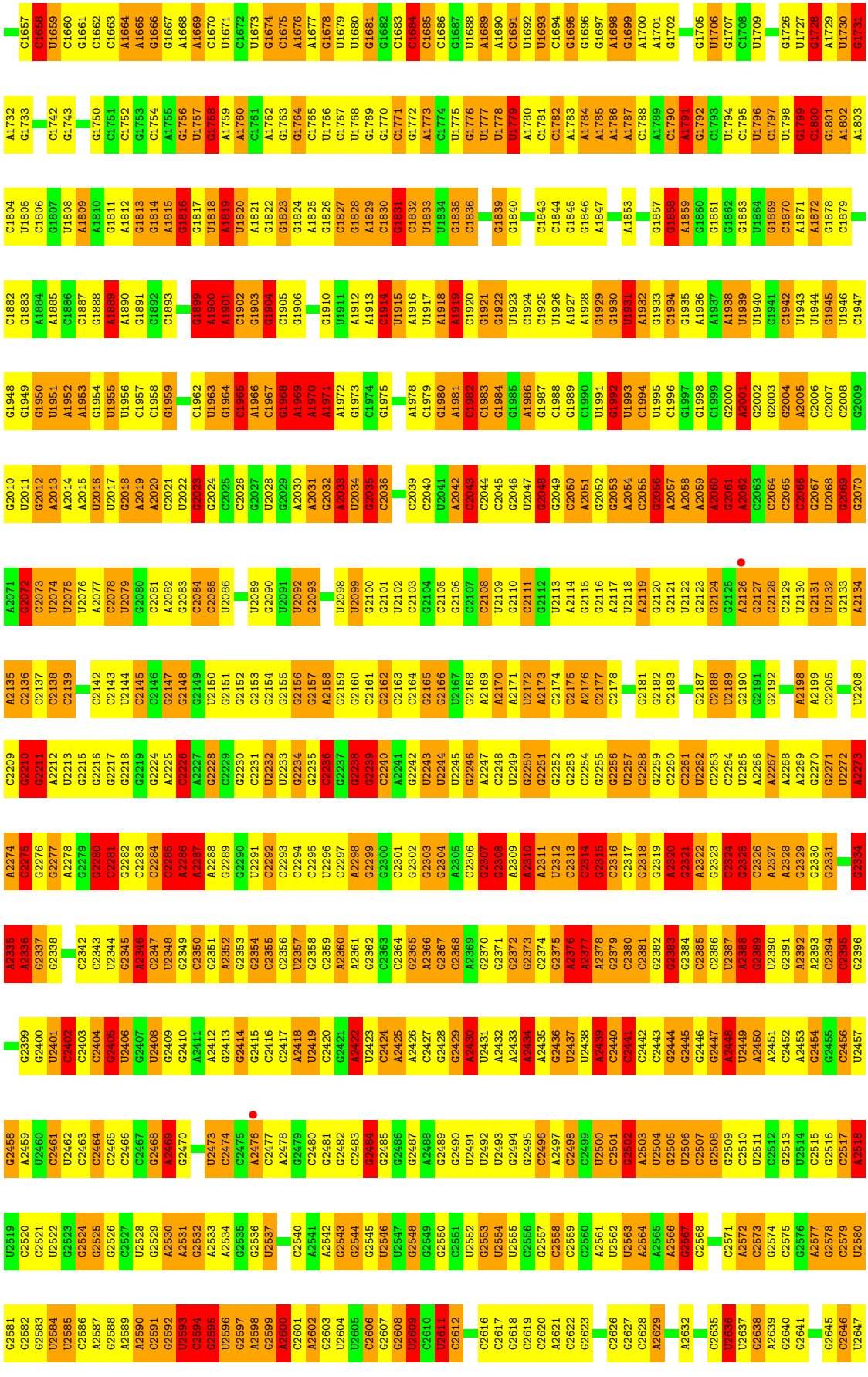


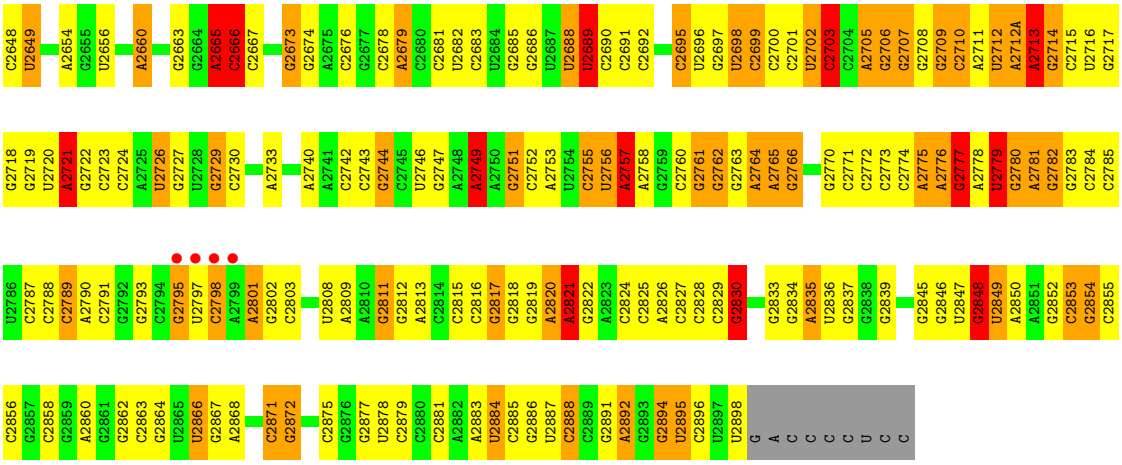
• Molecule 26: 23S ribosomal RNA

Chain 1H:



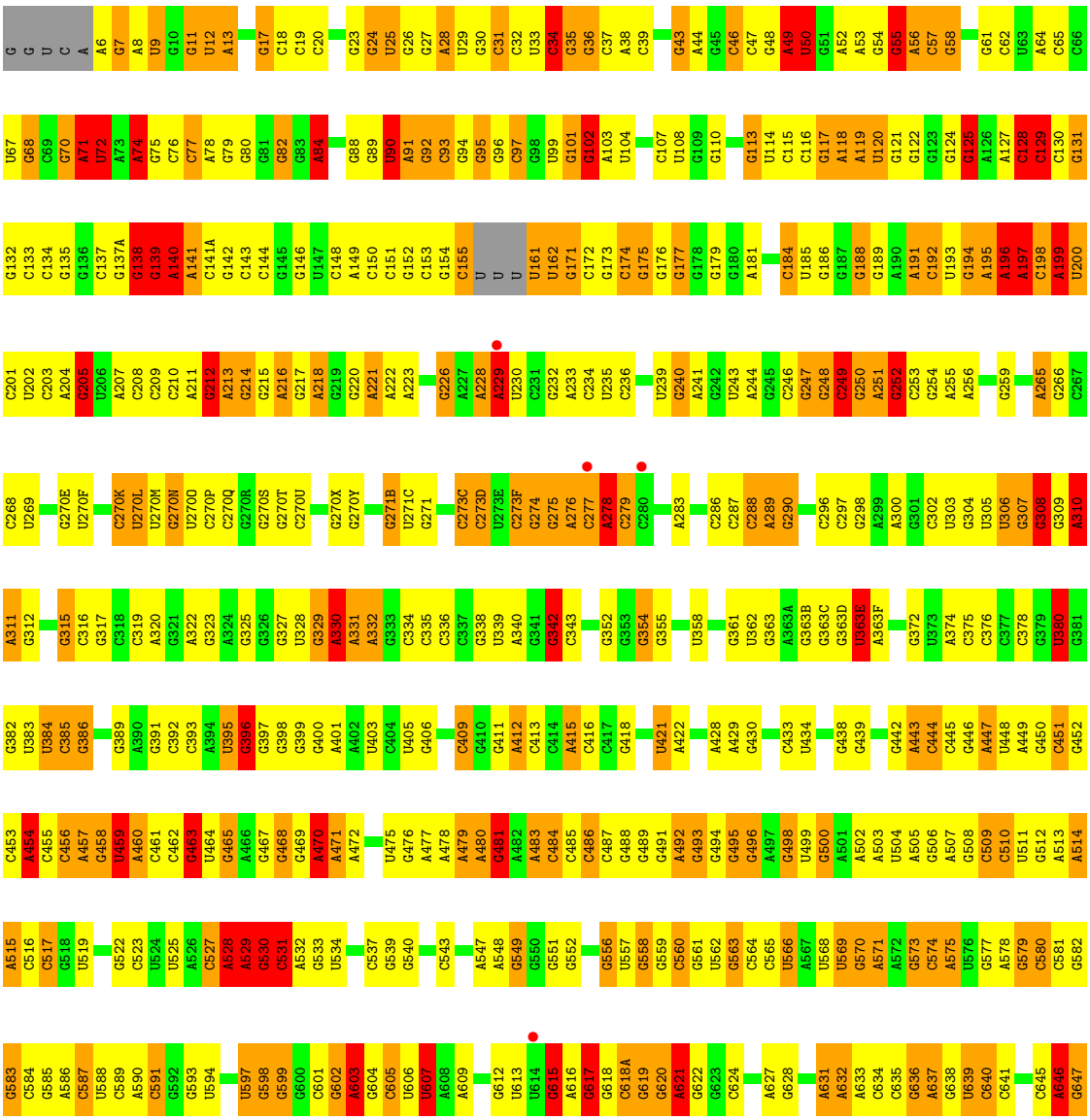


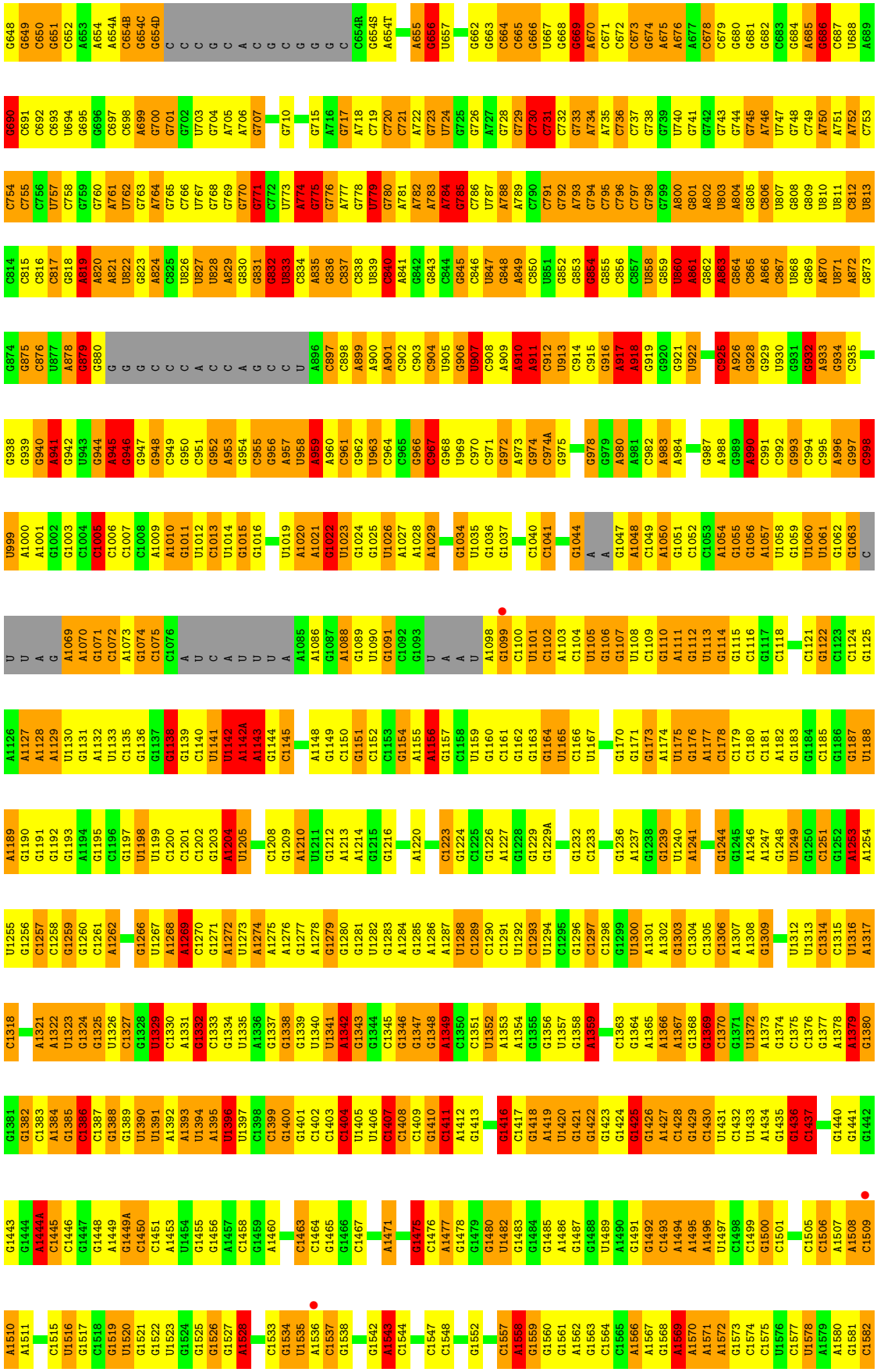


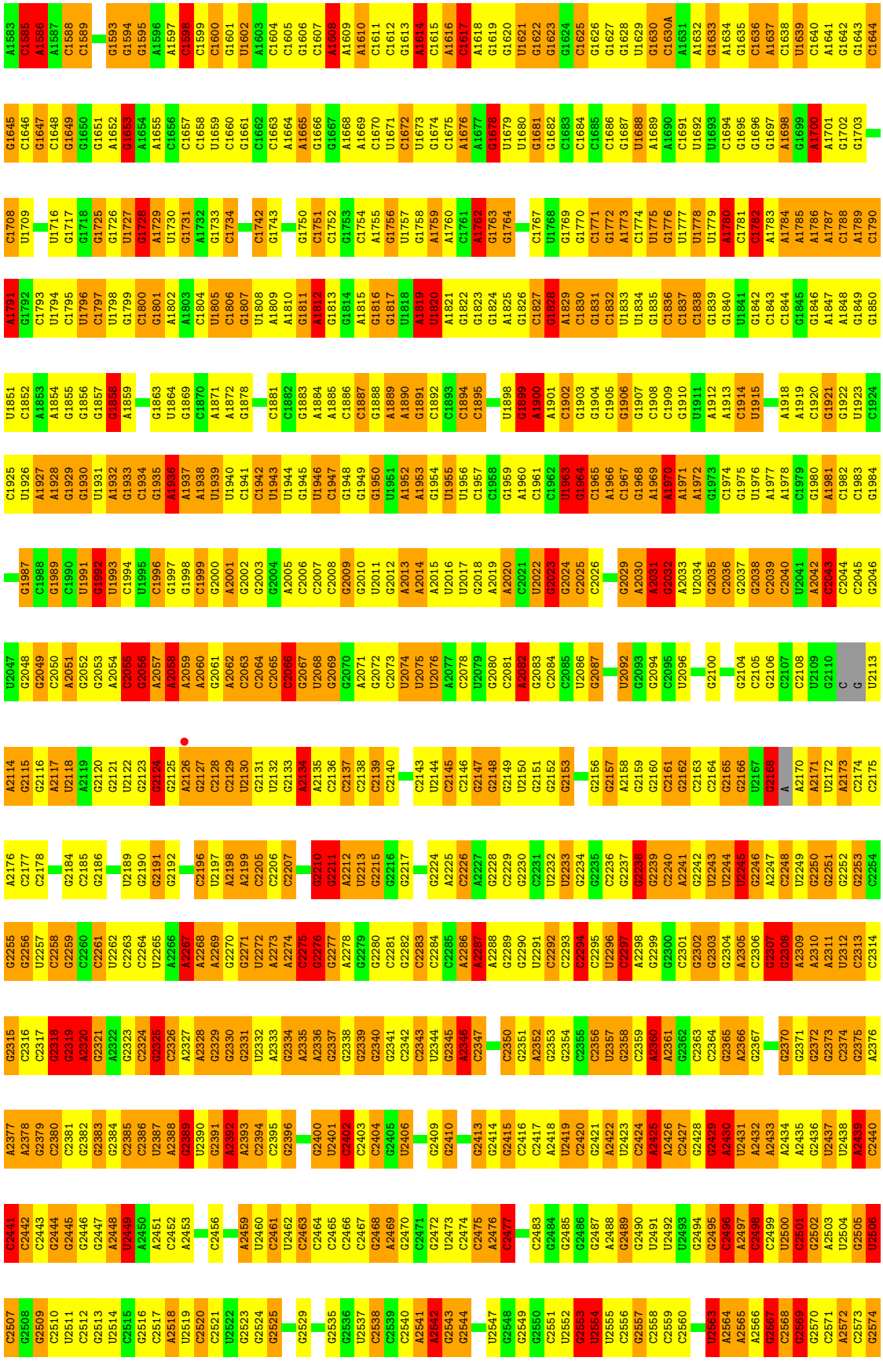


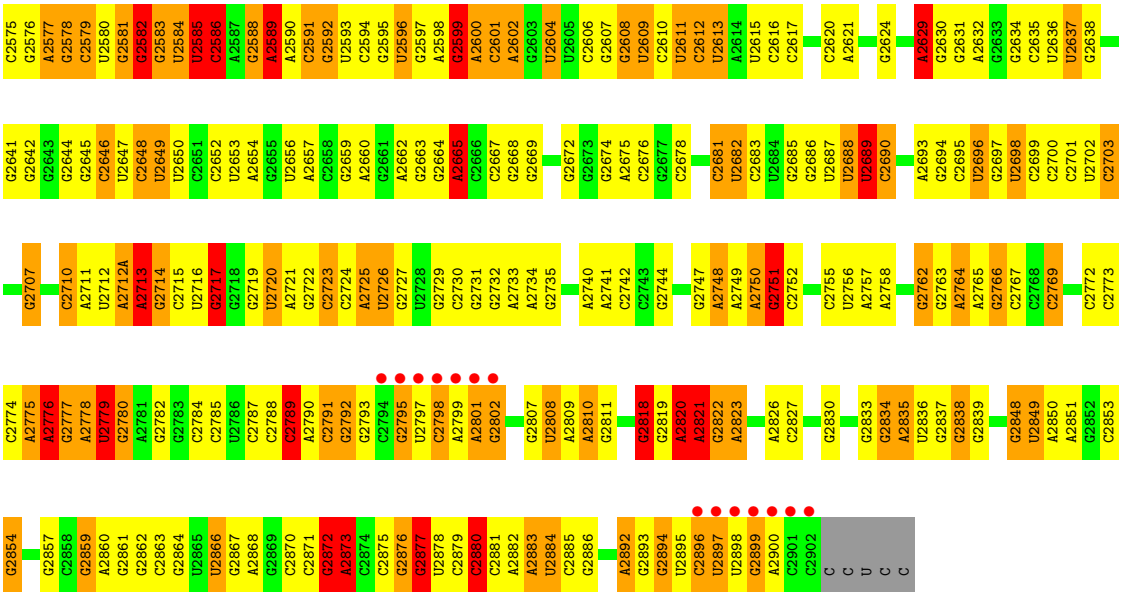
• Molecule 26: 23S ribosomal RNA

Chain 14:



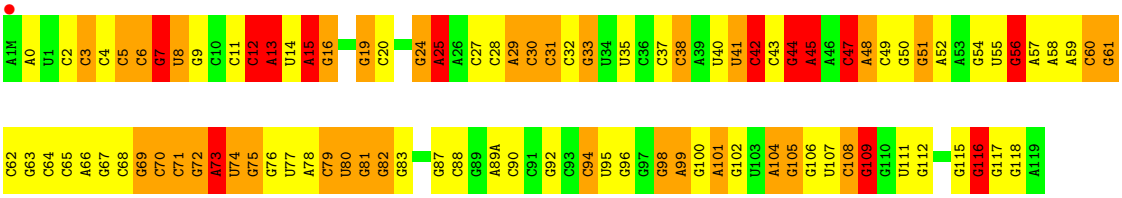






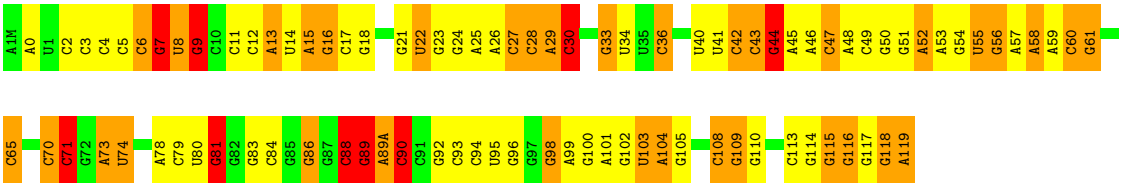
• Molecule 27: 5S ribosomal RNA

Chain 16:



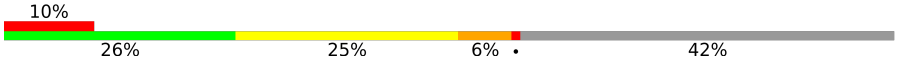
• Molecule 27: 5S ribosomal RNA

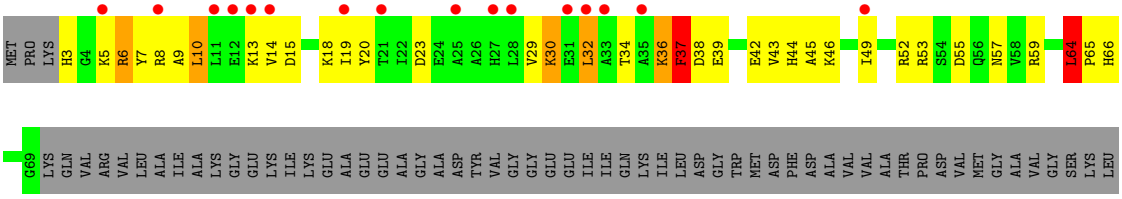
Chain 1J:

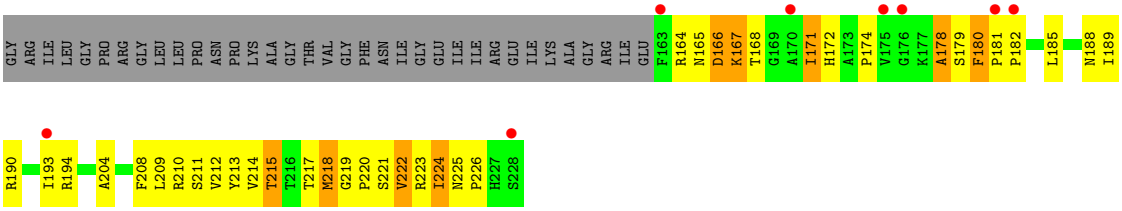


• Molecule 28: 50S ribosomal protein L1

Chain 71:

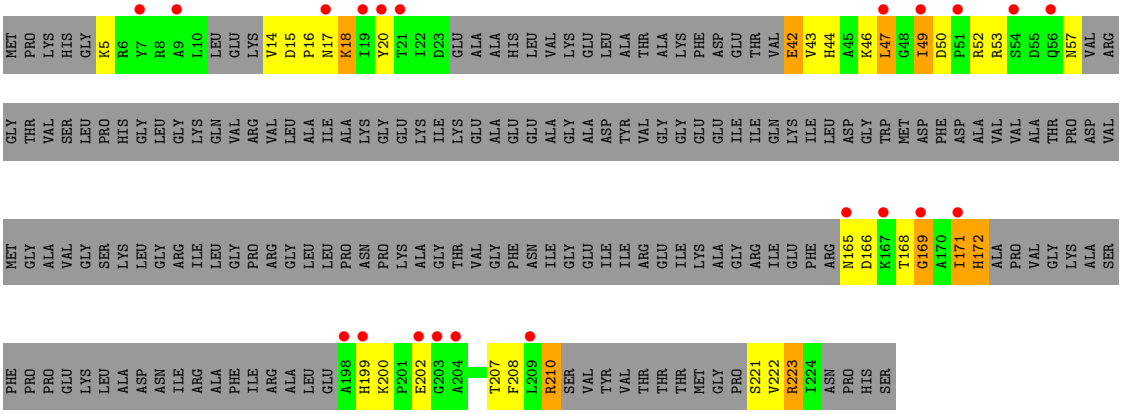






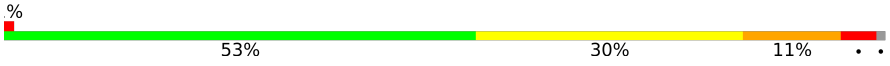
• Molecule 28: 50S ribosomal protein L1

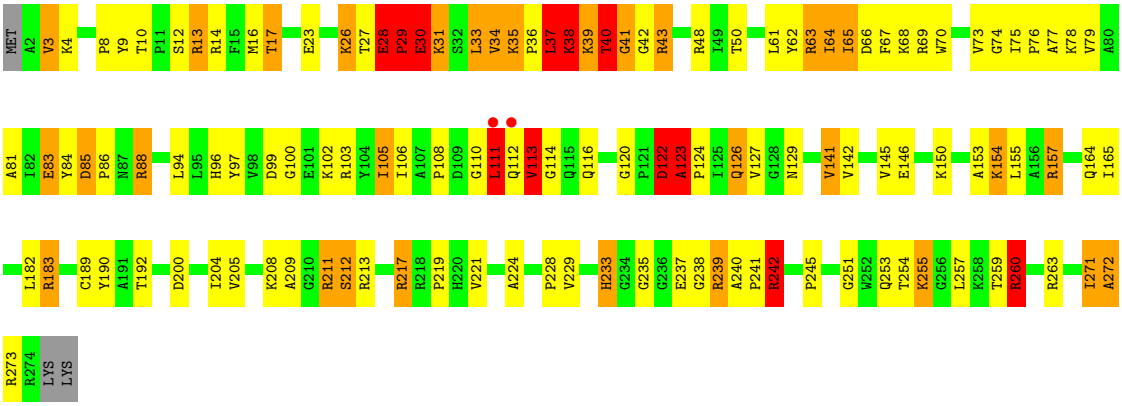
Chain 79:



• Molecule 29: 50S ribosomal protein L2

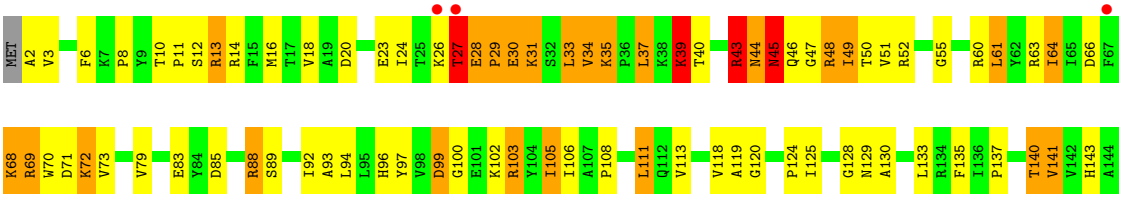
Chain 11:

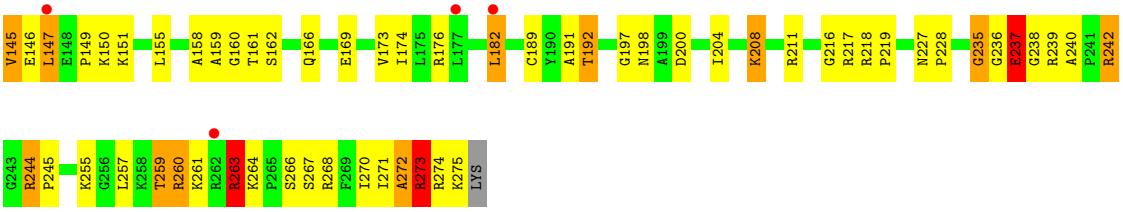




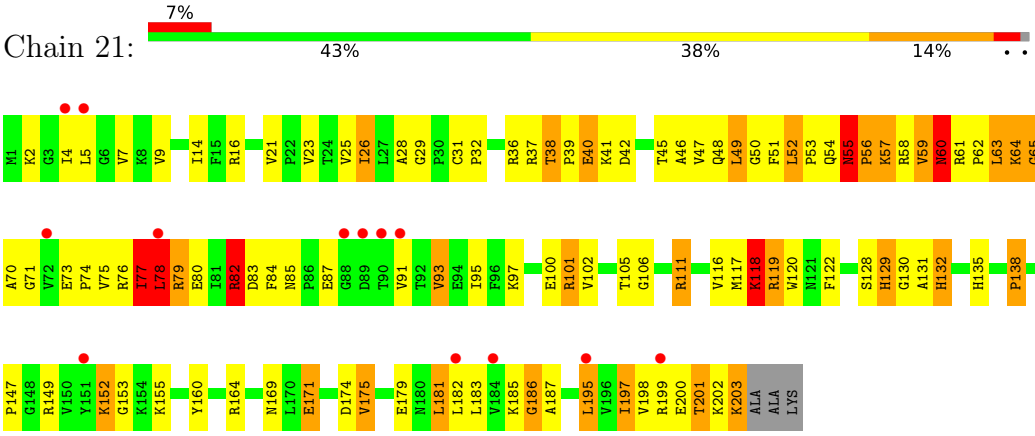
• Molecule 29: 50S ribosomal protein L2

Chain 19:

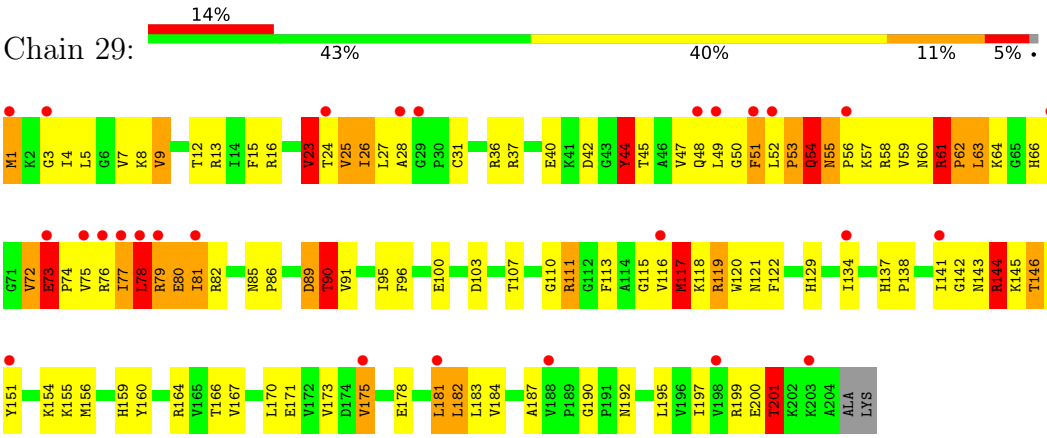




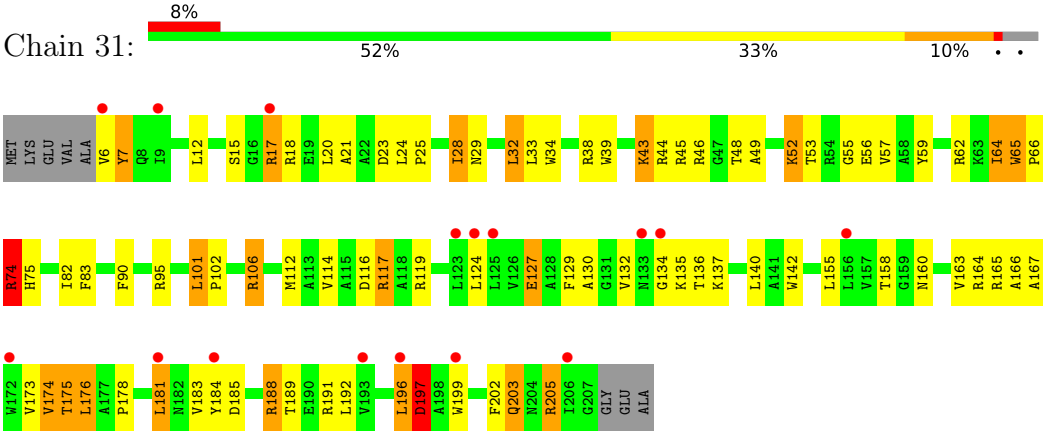
• Molecule 30: 50S ribosomal protein L3



• Molecule 30: 50S ribosomal protein L3

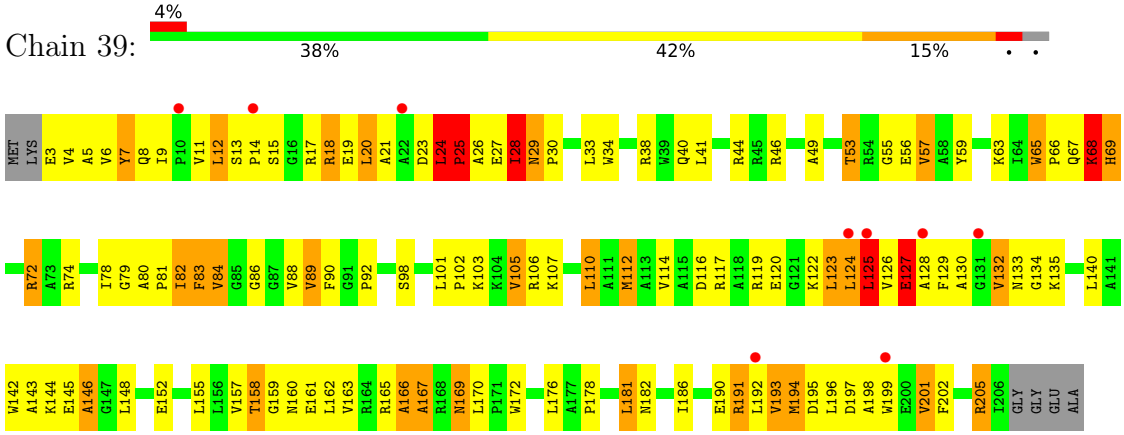


• Molecule 31: 50S ribosomal protein L4



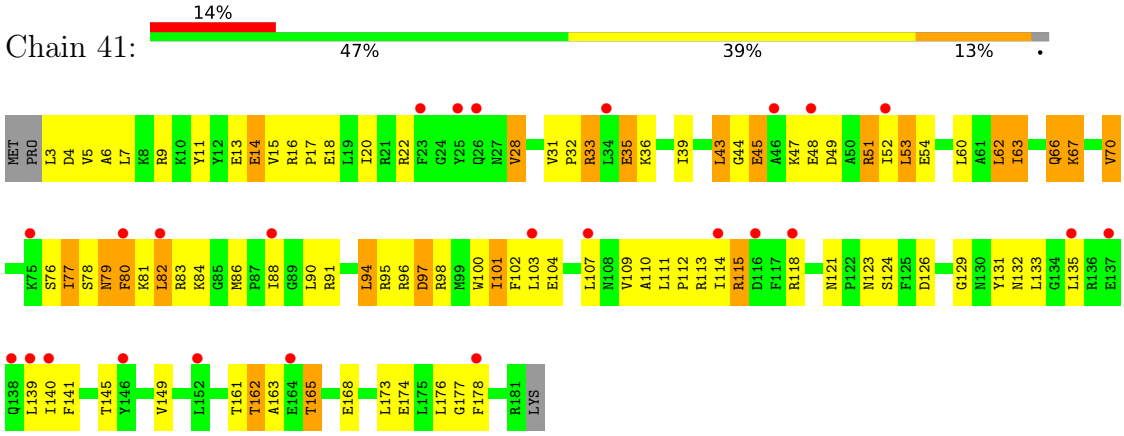
• Molecule 31: 50S ribosomal protein L4

Chain 39:



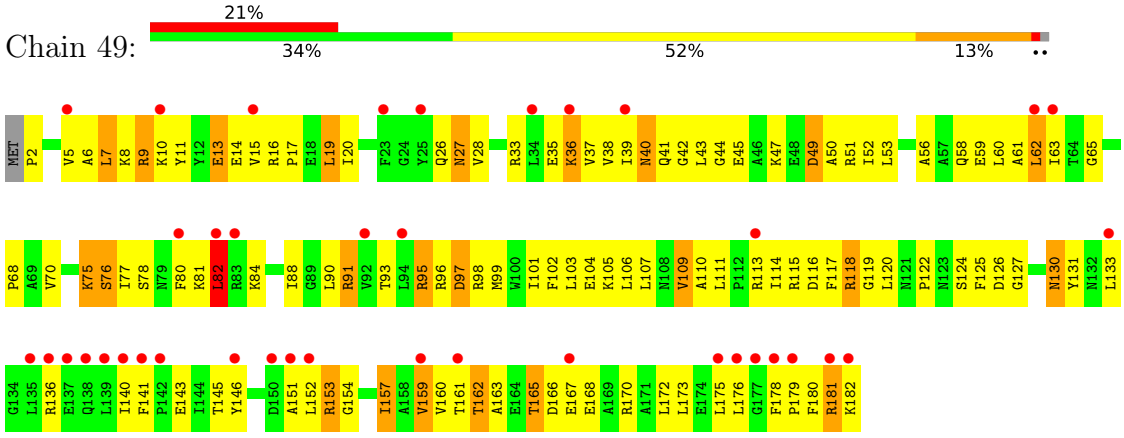
• Molecule 32: 50S ribosomal protein L5

Chain 41:



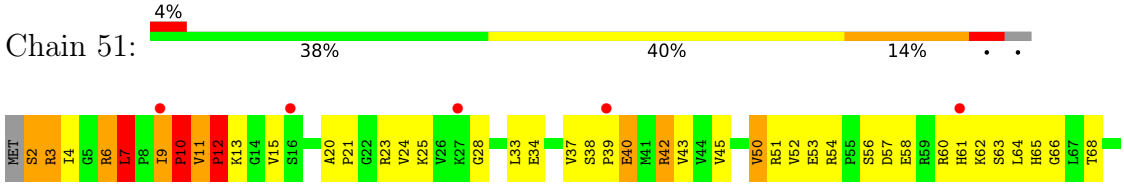
• Molecule 32: 50S ribosomal protein L5

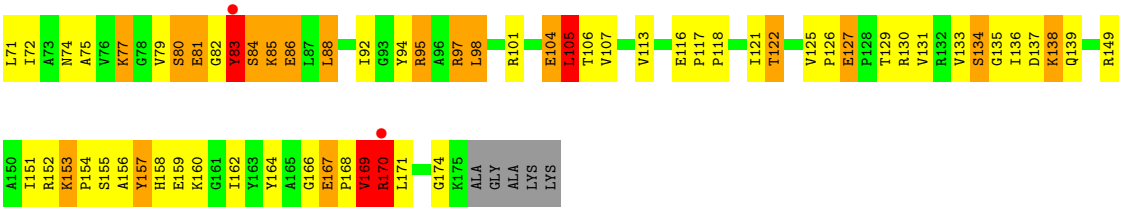
Chain 49:



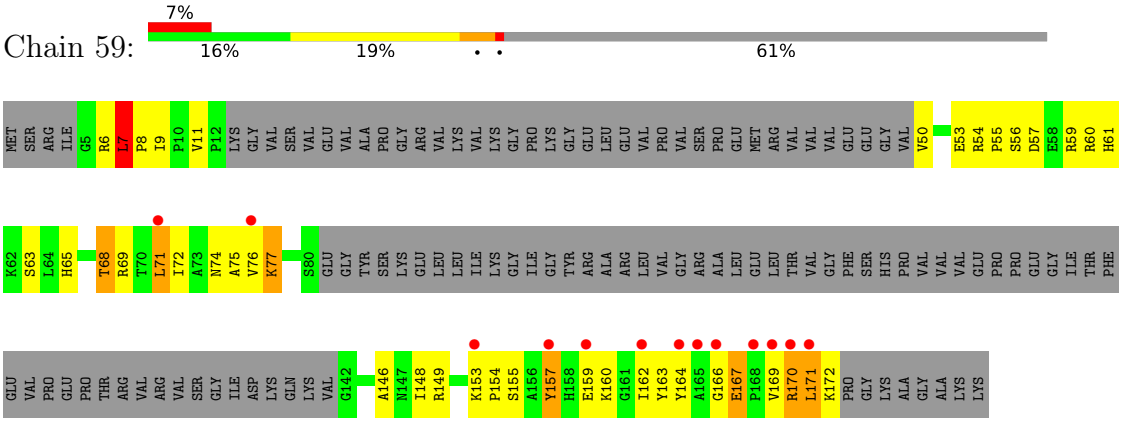
• Molecule 33: 50S ribosomal protein L6

Chain 51:

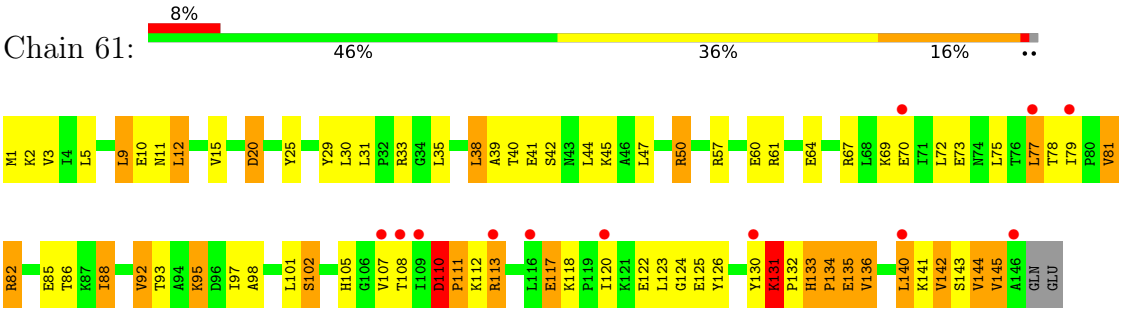




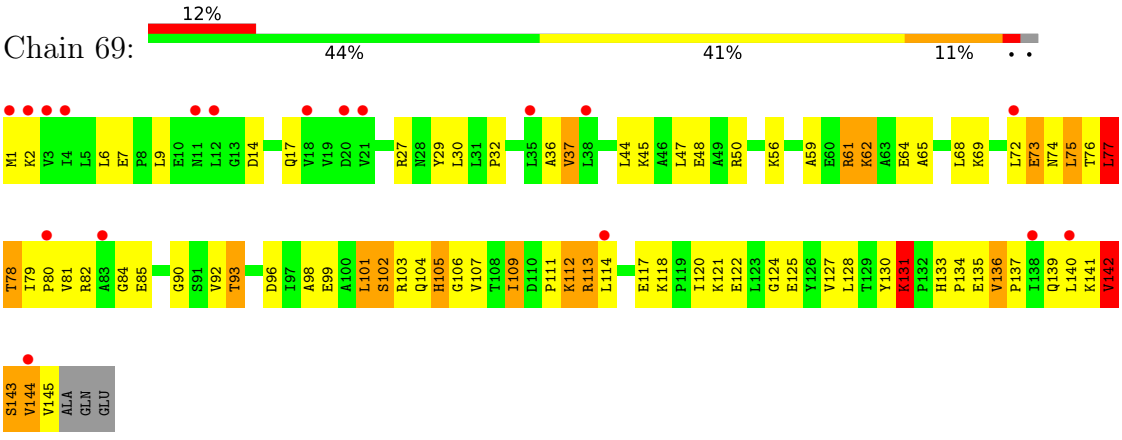
• Molecule 33: 50S ribosomal protein L6



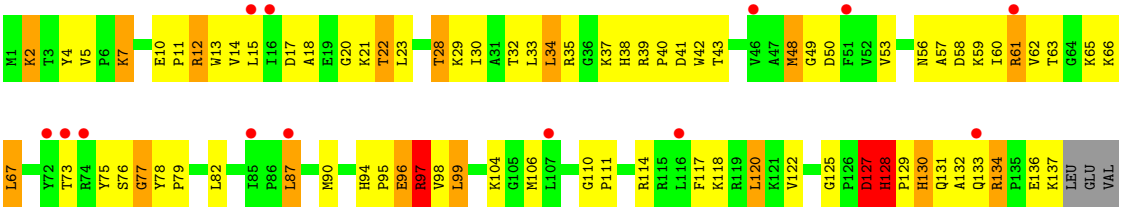
• Molecule 34: 50S ribosomal protein L9

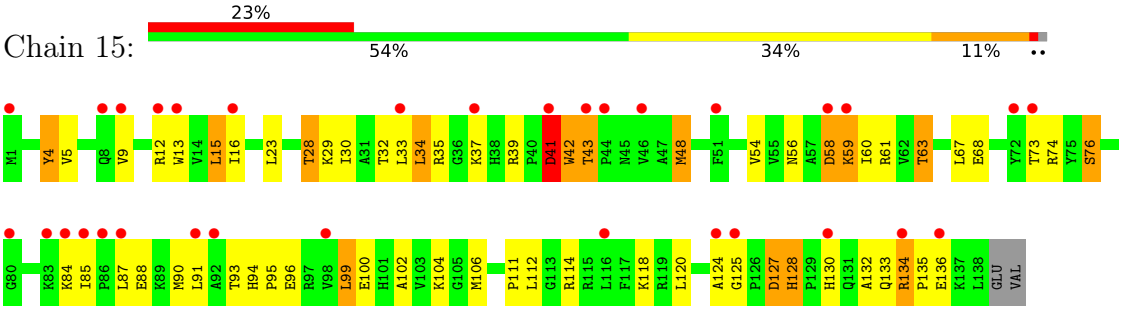


• Molecule 34: 50S ribosomal protein L9



• Molecule 35: 50S ribosomal protein L13



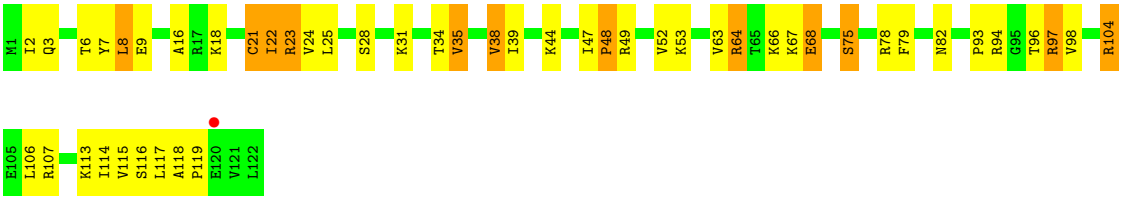


• Molecule 35: 50S ribosomal protein L13

Chain 15:

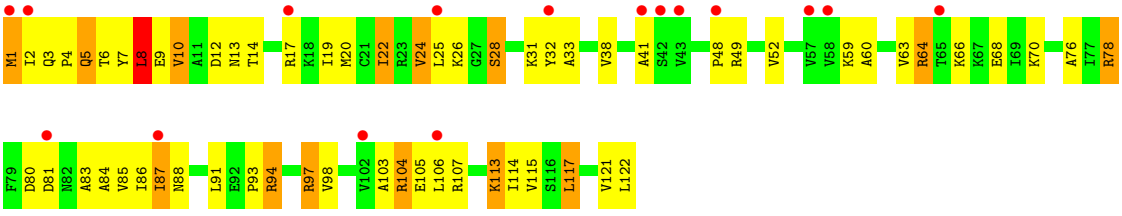
• Molecule 36: 50S ribosomal protein L14

Chain 68:



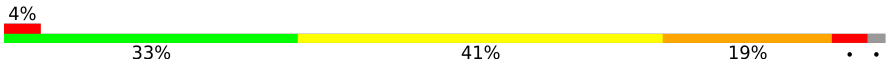
• Molecule 36: 50S ribosomal protein L14

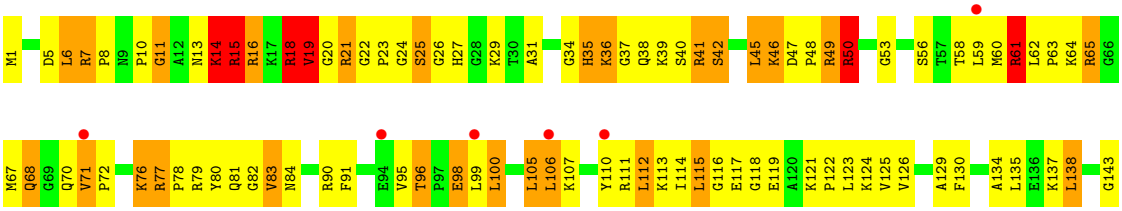
Chain 25:

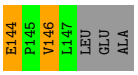


• Molecule 37: 50S ribosomal protein L15

Chain 78:

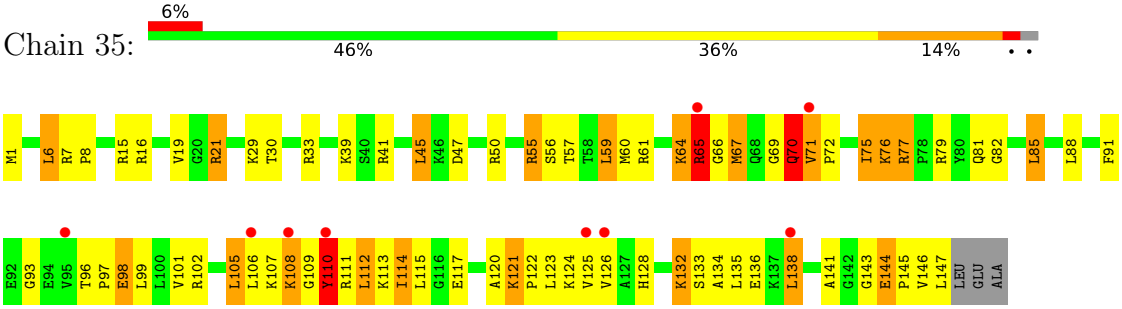






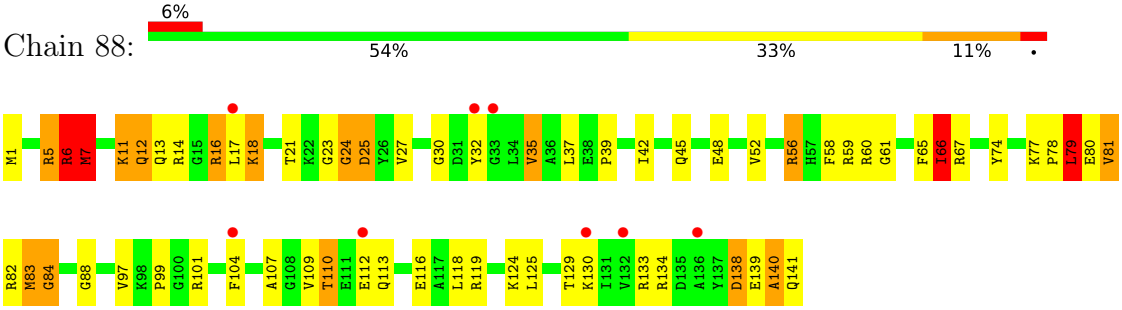
• Molecule 37: 50S ribosomal protein L15

Chain 35:



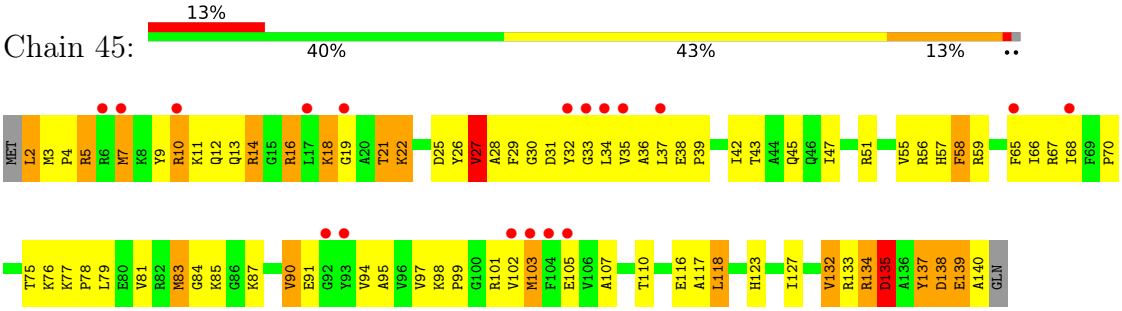
• Molecule 38: 50S ribosomal protein L16

Chain 88:



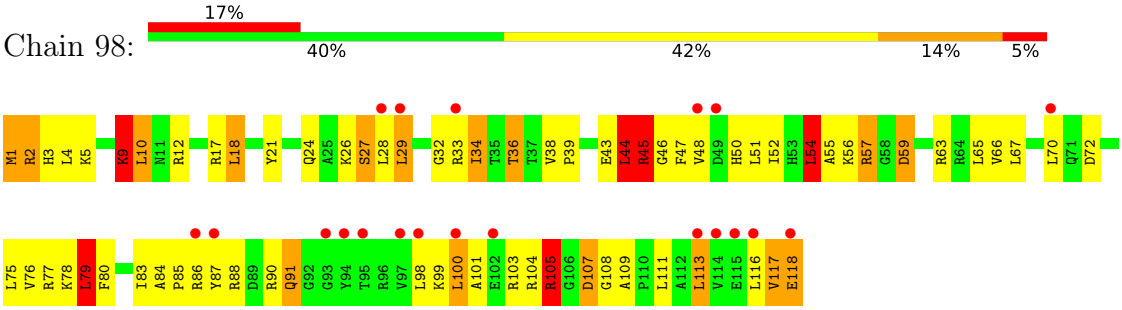
• Molecule 38: 50S ribosomal protein L16

Chain 45:



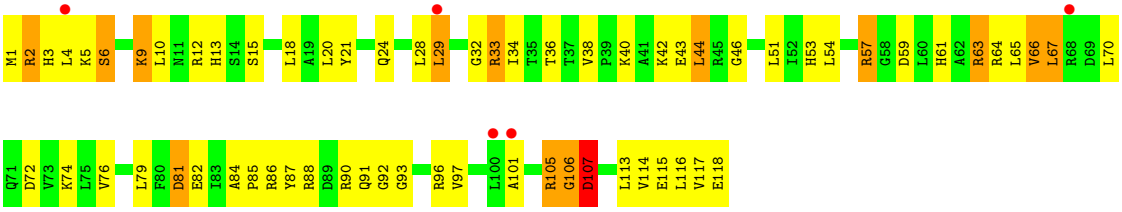
• Molecule 39: 50S ribosomal protein L17

Chain 98:



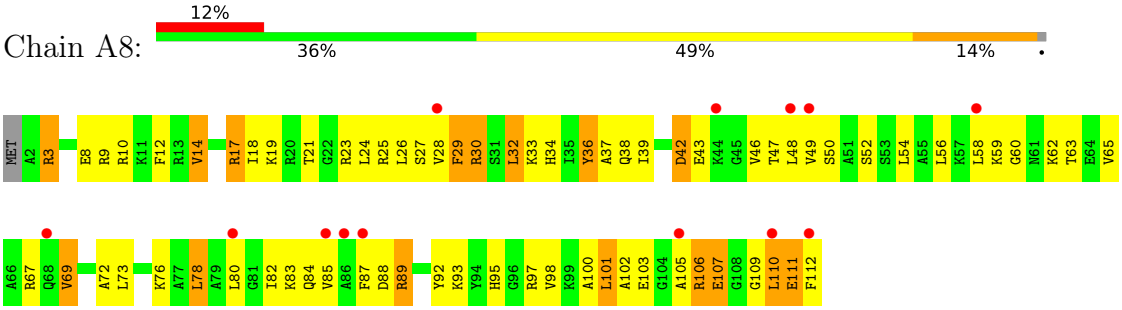
• Molecule 39: 50S ribosomal protein L17

Chain 55:



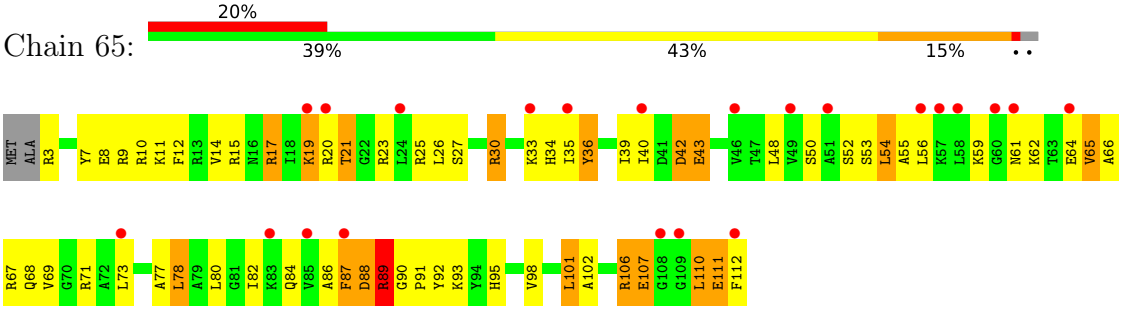
• Molecule 40: 50S ribosomal protein L18

Chain A8:



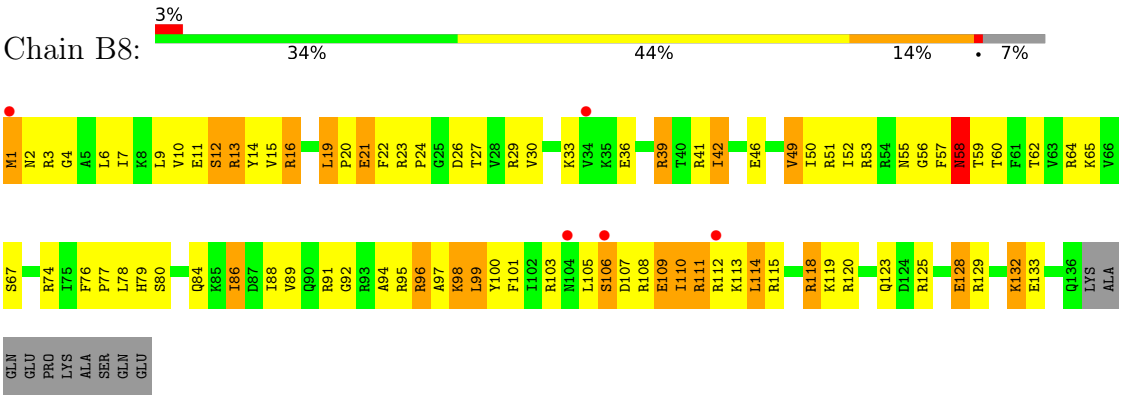
• Molecule 40: 50S ribosomal protein L18

Chain 65:



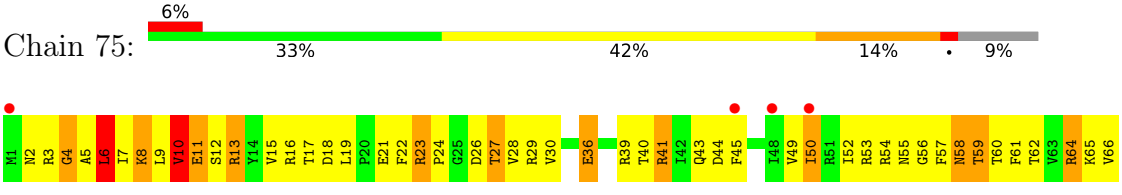
• Molecule 41: 50S ribosomal protein L19

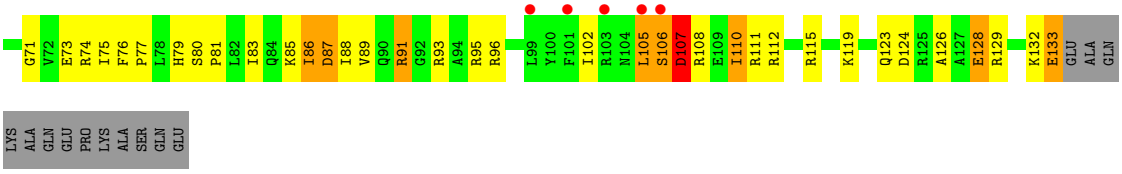
Chain B8:



• Molecule 41: 50S ribosomal protein L19

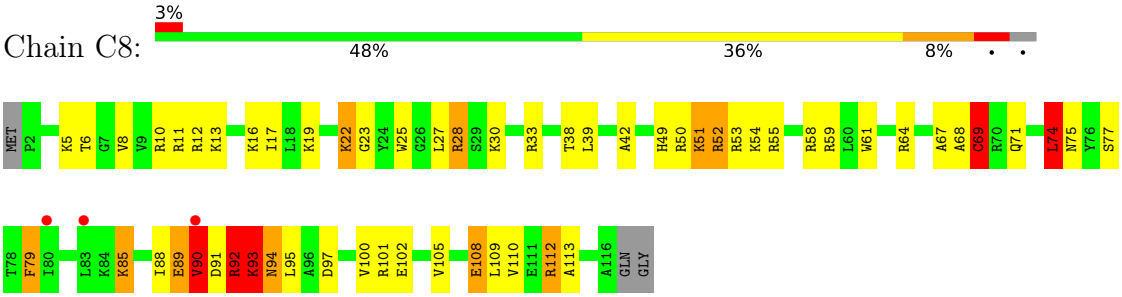
Chain 75:





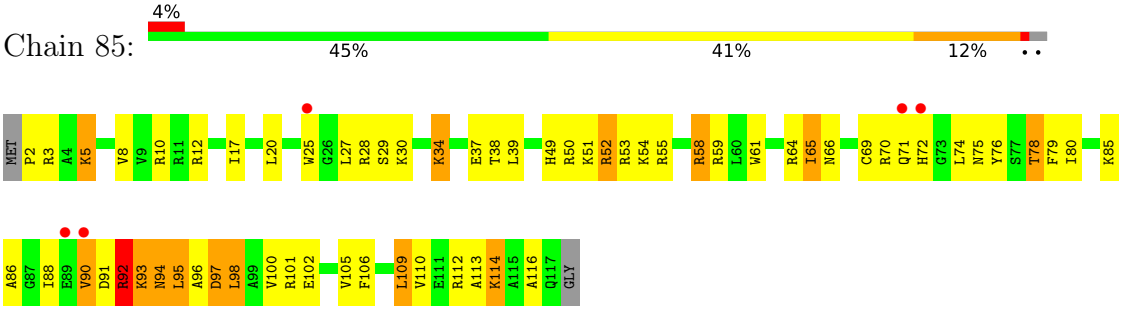
• Molecule 42: 50S ribosomal protein L20

Chain C8:



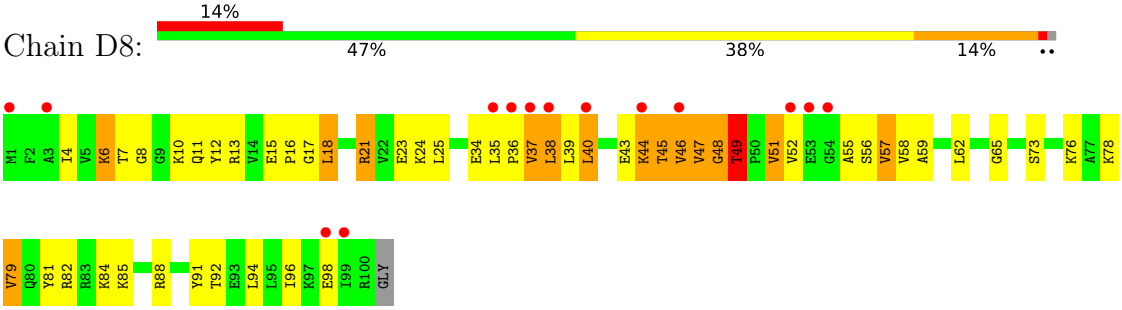
• Molecule 42: 50S ribosomal protein L20

Chain 85:



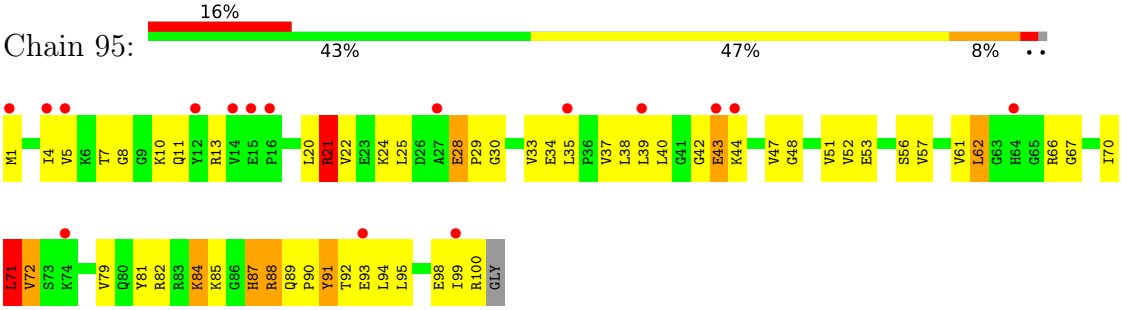
• Molecule 43: 50S ribosomal protein L21

Chain D8:



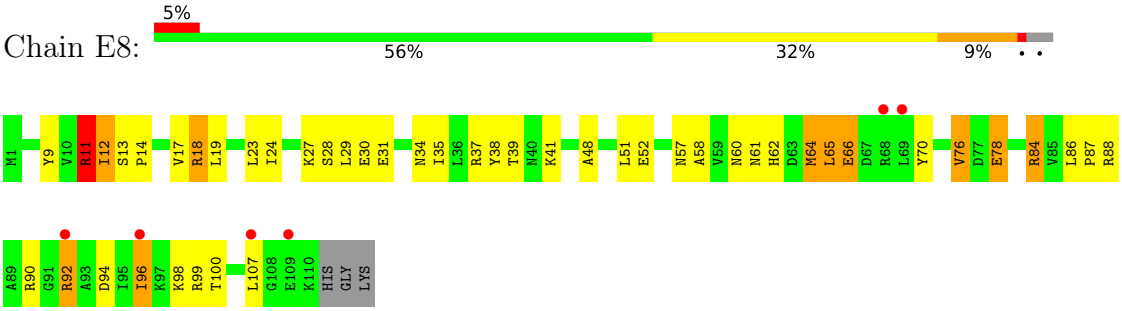
• Molecule 43: 50S ribosomal protein L21

Chain 95:



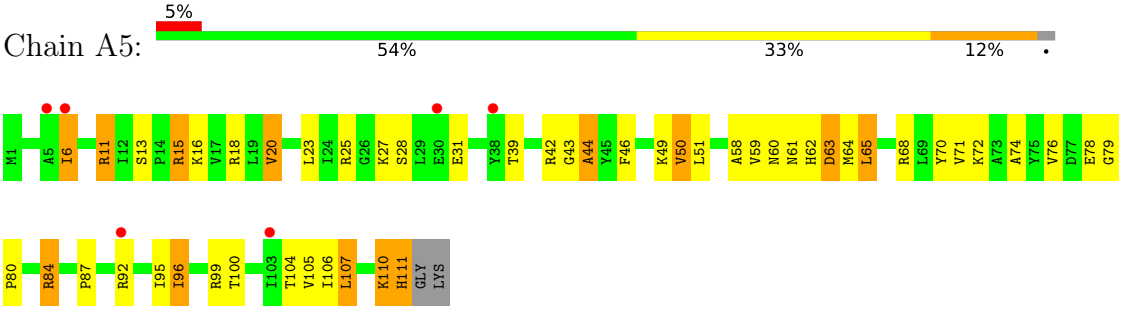
• Molecule 44: 50S ribosomal protein L22

Chain E8:



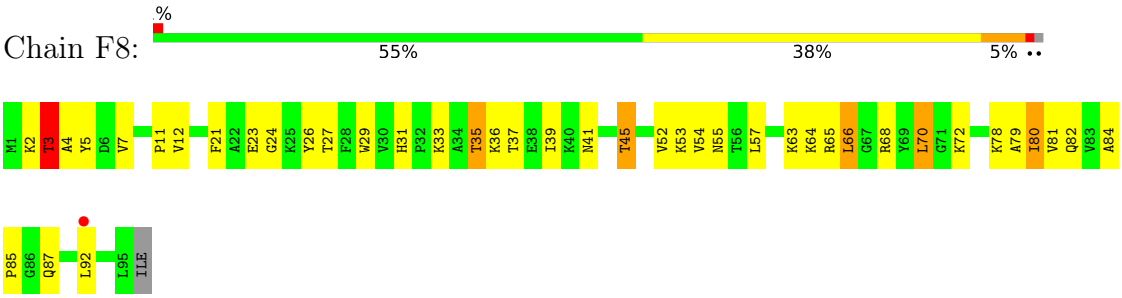
• Molecule 44: 50S ribosomal protein L22

Chain A5:



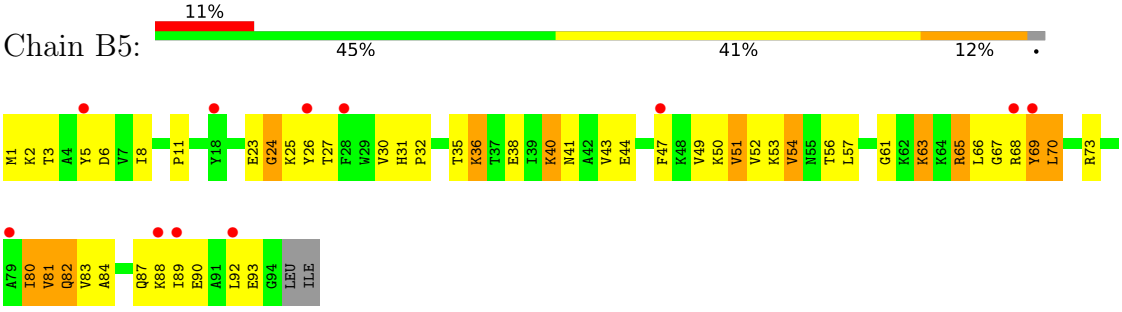
• Molecule 45: 50S ribosomal protein L23

Chain F8:



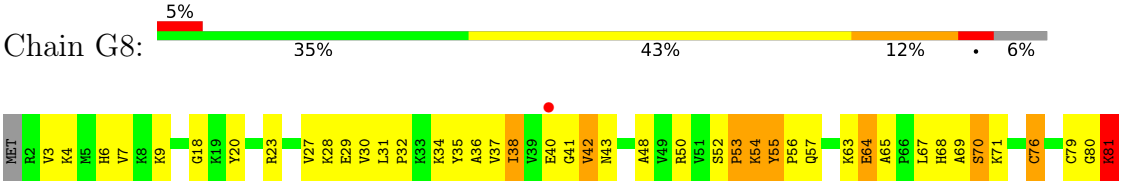
• Molecule 45: 50S ribosomal protein L23

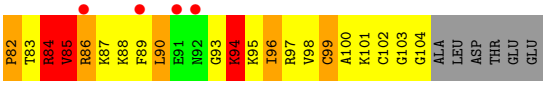
Chain B5:



• Molecule 46: 50S ribosomal protein L24

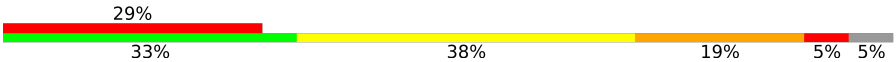
Chain G8:

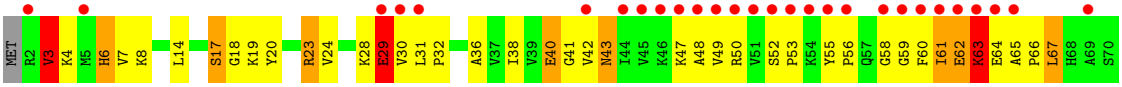


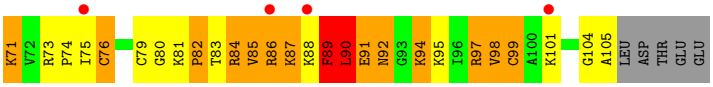


• Molecule 46: 50S ribosomal protein L24

Chain C5:

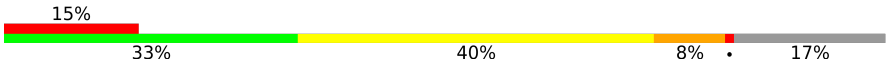


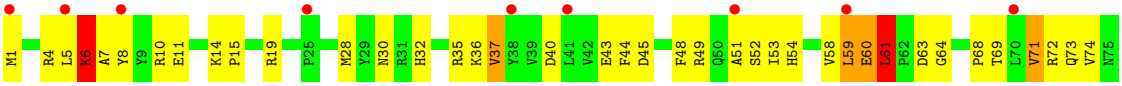


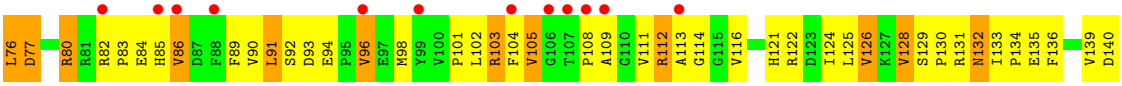


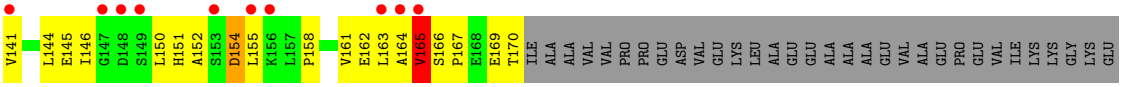
• Molecule 47: 50S ribosomal protein L25

Chain H8:



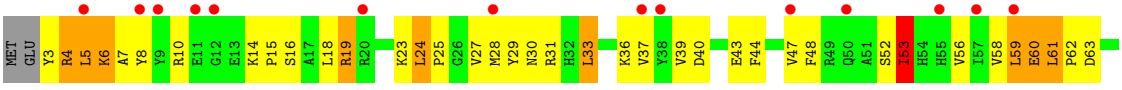


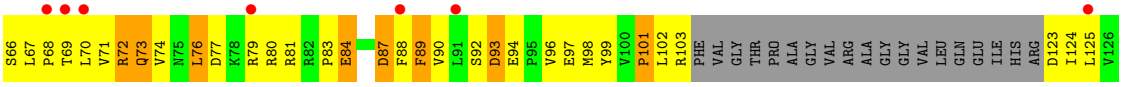


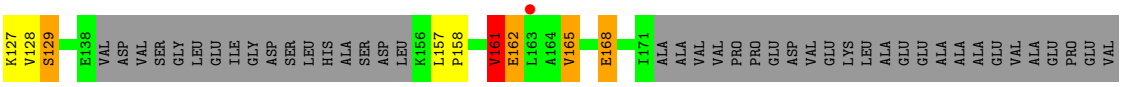


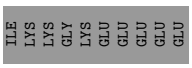
• Molecule 47: 50S ribosomal protein L25

Chain D5:



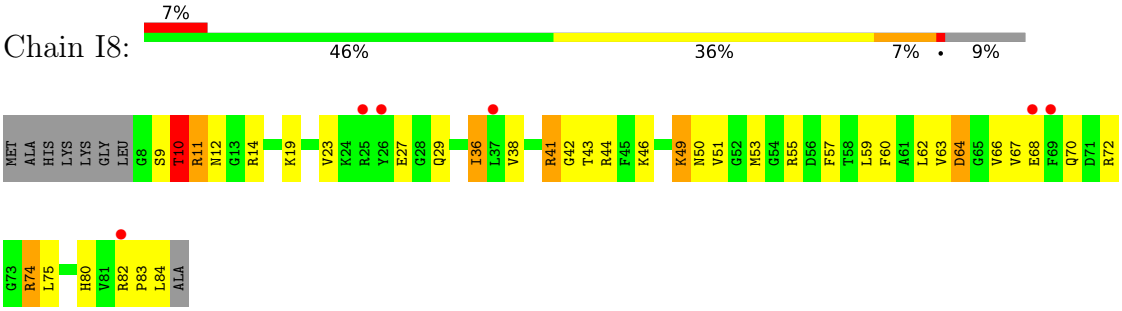






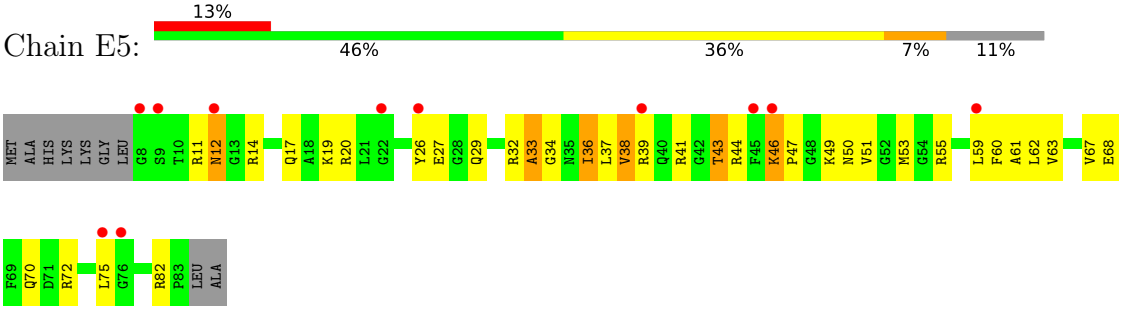
• Molecule 48: 50S ribosomal protein L27

Chain I8:



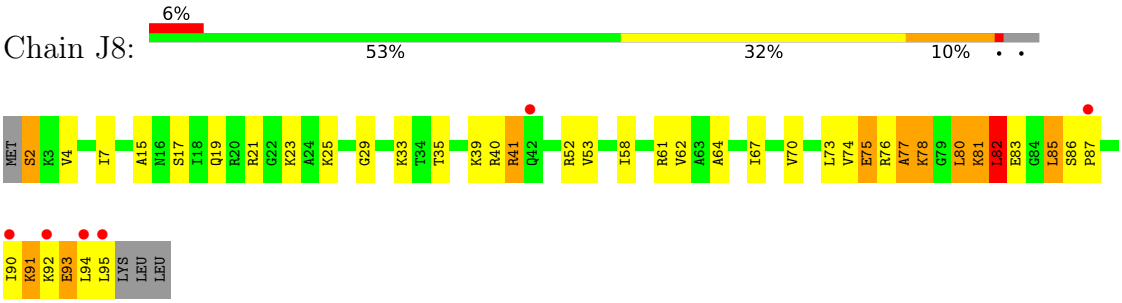
• Molecule 48: 50S ribosomal protein L27

Chain E5:



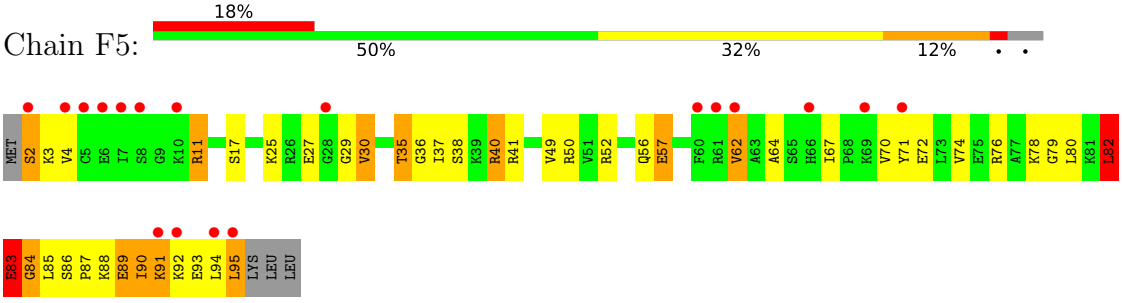
• Molecule 49: 50S ribosomal protein L28

Chain J8:



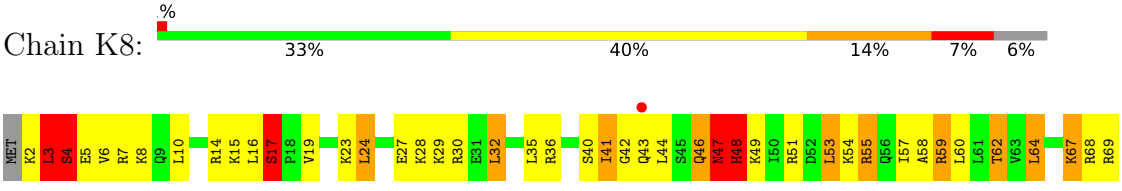
• Molecule 49: 50S ribosomal protein L28

Chain F5:



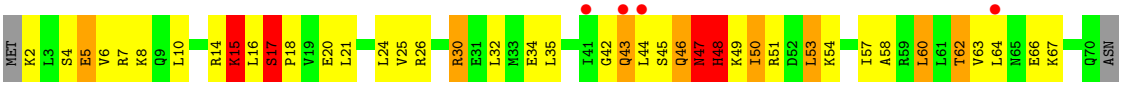
• Molecule 50: 50S ribosomal protein L29

Chain K8:



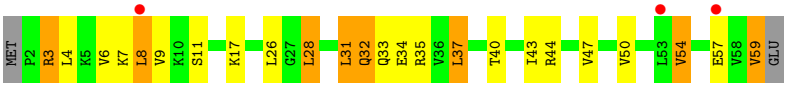
• Molecule 50: 50S ribosomal protein L29

Chain G5:



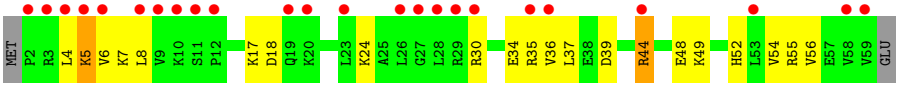
• Molecule 51: 50S ribosomal protein L30

Chain L8:



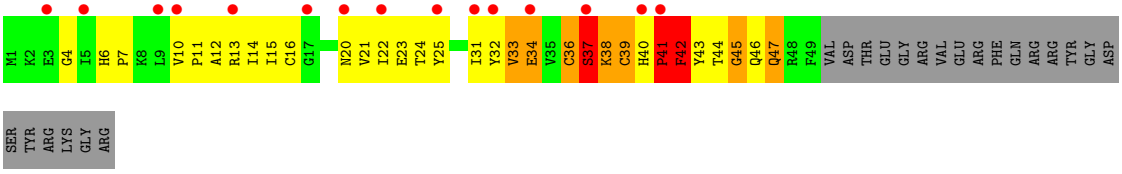
• Molecule 51: 50S ribosomal protein L30

Chain H5:



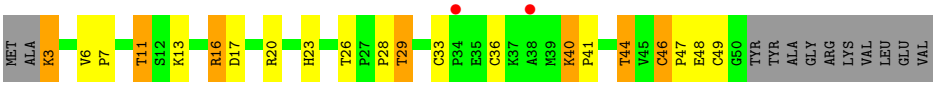
• Molecule 52: 50S ribosomal protein L31

Chain M8:



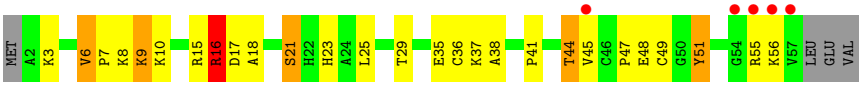
• Molecule 53: 50S ribosomal protein L32

Chain N8:



• Molecule 53: 50S ribosomal protein L32

Chain J5:



• Molecule 54: 50S ribosomal protein L34

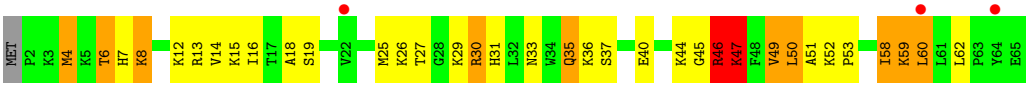
Chain P8:

• Molecule 54: 50S ribosomal protein L34

Chain L5:

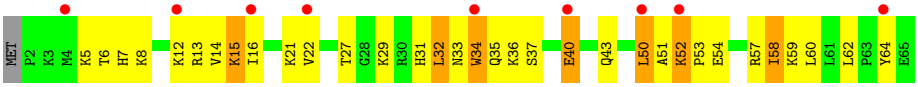
• Molecule 55: 50S ribosomal protein L35

Chain Q8:



• Molecule 55: 50S ribosomal protein L35

Chain M5:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	209.20Å 448.50Å 619.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	147.01 – 2.95 147.01 – 2.95	Depositor EDS
% Data completeness (in resolution range)	100.0 (147.01-2.95) 91.6 (147.01-2.95)	Depositor EDS
R_{merge}	0.32	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.91 (at 2.96Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.196 , 0.242 0.196 , 0.242	Depositor DCC
R_{free} test set	2000 reflections (0.17%)	wwPDB-VP
Wilson B-factor (Å^2)	77.9	Xtriage
Anisotropy	0.354	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 72.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	297904	wwPDB-VP
Average B, all atoms (Å^2)	98.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.48% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 5MU, G7M, ZN, PSU, T6A, SF4, MG, U8U, OMC, 4SU

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	0.92	23/35994 (0.1%)	1.67	897/56171 (1.6%)
1	1G	0.79	7/36236 (0.0%)	1.48	499/56555 (0.9%)
2	12	0.44	0/1727	0.73	1/2326 (0.0%)
2	1E	0.47	0/1908	0.76	4/2573 (0.2%)
3	22	0.43	0/1560	0.67	0/2104
3	2E	0.58	0/1629	0.73	1/2195 (0.0%)
4	32	0.58	1/1732 (0.1%)	0.81	3/2318 (0.1%)
4	3E	0.61	0/1728	0.84	3/2313 (0.1%)
5	42	0.53	0/1155	0.72	0/1555
5	4E	0.64	0/1158	0.77	0/1559
6	52	0.65	0/855	0.72	0/1154
6	5E	0.66	0/850	0.76	0/1147
7	62	0.51	0/1132	0.70	0/1514
7	6E	0.52	0/1259	0.65	0/1686
8	72	0.48	0/1127	0.66	0/1517
8	7E	0.59	0/1135	0.81	1/1527 (0.1%)
9	82	0.43	0/971	0.70	0/1304
9	8E	0.51	0/1019	0.72	0/1367
10	1A	0.46	0/658	0.70	0/885
10	1I	0.60	0/767	0.82	0/1034
11	2A	0.55	0/850	0.67	0/1150
11	2I	0.62	0/838	0.79	0/1133
12	3A	0.68	0/972	0.89	2/1301 (0.2%)
12	3I	0.87	0/972	1.04	3/1301 (0.2%)
13	4A	0.48	0/903	0.73	0/1211
13	4I	0.67	0/952	0.87	2/1277 (0.2%)
14	5A	0.54	0/495	0.80	1/657 (0.2%)
14	5I	0.70	0/500	0.89	0/664
15	6A	0.60	0/740	0.70	0/987
15	6I	0.64	0/740	0.78	0/987
16	7A	0.64	0/721	0.86	1/970 (0.1%)
16	7I	0.59	0/716	0.83	0/963

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	8A	0.57	0/836	0.70	0/1117
17	8I	0.69	0/847	0.82	1/1131 (0.1%)
18	9A	0.63	0/549	0.82	1/732 (0.1%)
18	9I	0.62	0/554	0.84	0/739
19	AA	0.44	0/490	0.69	0/662
19	AI	0.73	1/676 (0.1%)	1.03	5/910 (0.5%)
20	BA	0.51	0/764	0.78	1/1007 (0.1%)
20	BI	0.45	0/748	0.74	2/986 (0.2%)
21	1B	0.50	0/192	0.74	0/252
21	1F	0.57	0/203	0.82	0/266
22	1K	0.80	1/1589 (0.1%)	1.36	23/2464 (0.9%)
22	1L	0.62	3/1516 (0.2%)	1.18	9/2350 (0.4%)
23	2K	1.02	2/1721 (0.1%)	1.76	50/2682 (1.9%)
23	2L	0.83	2/1721 (0.1%)	1.56	30/2682 (1.1%)
24	3K	0.70	2/1654 (0.1%)	1.41	25/2570 (1.0%)
24	3L	0.66	0/1705	1.30	14/2650 (0.5%)
25	4K	1.03	1/523 (0.2%)	1.55	10/813 (1.2%)
25	4L	0.78	0/473	1.44	9/737 (1.2%)
26	14	1.13	193/68883 (0.3%)	1.96	3155/107521 (2.9%)
26	1H	1.33	416/69669 (0.6%)	2.20	4553/108757 (4.2%)
27	16	1.07	7/2928 (0.2%)	2.00	135/4568 (3.0%)
27	1J	0.92	2/2928 (0.1%)	1.73	88/4568 (1.9%)
28	71	0.39	0/1055	0.68	1/1425 (0.1%)
28	79	0.36	0/459	0.66	1/608 (0.2%)
29	11	1.07	6/2170 (0.3%)	1.22	16/2926 (0.5%)
29	19	0.92	1/2175 (0.0%)	1.09	11/2933 (0.4%)
30	21	0.87	1/1591 (0.1%)	1.12	7/2146 (0.3%)
30	29	0.81	1/1596 (0.1%)	1.06	8/2153 (0.4%)
31	31	0.91	3/1620 (0.2%)	1.11	12/2194 (0.5%)
31	39	0.78	1/1637 (0.1%)	1.02	3/2218 (0.1%)
32	41	0.69	0/1481	0.89	2/1994 (0.1%)
32	49	0.53	0/1492	0.77	2/2008 (0.1%)
33	51	0.74	0/1354	1.06	7/1833 (0.4%)
33	59	0.47	0/552	0.87	2/743 (0.3%)
34	61	0.59	0/1151	0.86	3/1558 (0.2%)
34	69	0.56	0/1146	0.86	5/1551 (0.3%)
35	15	0.57	0/1131	0.75	0/1525
35	58	0.71	0/1123	0.93	0/1514
36	25	0.73	0/942	0.86	1/1269 (0.1%)
36	68	0.83	0/942	0.92	2/1269 (0.2%)
37	35	0.73	0/1139	1.07	1/1514 (0.1%)
37	78	0.91	0/1139	1.35	16/1514 (1.1%)
38	45	0.77	0/1125	1.00	0/1505

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	88	0.98	0/1138	1.14	3/1523 (0.2%)
39	55	0.73	0/981	0.96	0/1312
39	98	0.72	0/981	1.01	8/1312 (0.6%)
40	65	0.65	0/886	1.01	4/1180 (0.3%)
40	A8	0.79	0/891	1.03	0/1187
41	75	0.70	0/1123	0.93	4/1500 (0.3%)
41	B8	0.81	0/1138	1.01	2/1521 (0.1%)
42	85	0.76	0/977	0.91	2/1301 (0.2%)
42	C8	0.85	1/968 (0.1%)	0.99	4/1289 (0.3%)
43	95	0.70	0/781	0.95	2/1048 (0.2%)
43	D8	0.76	0/785	1.00	5/1052 (0.5%)
44	A5	0.82	0/897	0.94	0/1204
44	E8	0.82	0/886	1.06	5/1189 (0.4%)
45	B5	0.81	0/749	0.88	0/1007
45	F8	0.90	0/757	1.07	4/1017 (0.4%)
46	C5	0.75	0/807	0.97	2/1076 (0.2%)
46	G8	0.91	0/796	1.15	5/1062 (0.5%)
47	D5	0.55	0/1103	0.79	2/1494 (0.1%)
47	H8	0.61	0/1395	0.87	2/1890 (0.1%)
48	E5	0.77	0/611	0.95	0/814
48	I8	0.95	1/619 (0.2%)	1.23	3/825 (0.4%)
49	F5	0.83	0/744	1.13	6/989 (0.6%)
49	J8	0.92	1/744 (0.1%)	1.09	4/989 (0.4%)
50	G5	0.69	0/578	0.88	1/766 (0.1%)
50	K8	0.95	0/577	1.26	6/763 (0.8%)
51	H5	0.66	0/464	0.86	0/623
51	L8	0.83	1/464 (0.2%)	0.93	0/623
52	M8	0.65	0/385	1.05	2/521 (0.4%)
53	J5	0.82	0/448	1.06	3/606 (0.5%)
53	N8	0.85	0/381	1.03	0/516
54	L5	0.85	0/409	1.08	3/540 (0.6%)
54	P8	1.04	0/409	1.21	1/540 (0.2%)
55	M5	0.93	2/524 (0.4%)	1.05	1/691 (0.1%)
55	Q8	0.99	0/524	1.25	3/691 (0.4%)
All	All	1.01	680/318108 (0.2%)	1.71	9716/476630 (2.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	12	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	1E	0	1
4	32	0	1
9	82	0	1
9	8E	0	1
10	1I	0	1
11	2A	0	1
11	2I	0	1
12	3I	0	3
13	4A	0	2
13	4I	0	3
14	5A	0	1
20	BA	0	3
28	71	0	3
29	11	0	6
29	19	0	5
30	21	0	9
30	29	0	5
31	39	0	10
32	41	0	1
32	49	0	3
33	51	0	5
33	59	0	3
34	61	0	3
34	69	0	5
35	15	0	2
35	58	0	2
37	35	0	3
37	78	0	5
38	45	0	3
38	88	0	2
39	55	0	1
39	98	0	1
40	65	0	1
41	75	0	1
41	B8	0	3
42	85	0	3
42	C8	0	2
43	95	0	1
43	D8	0	4
44	A5	0	1
45	B5	0	2
45	F8	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
46	C5	0	2
46	G8	0	6
47	D5	0	5
47	H8	0	3
49	F5	0	2
49	J8	0	3
50	G5	0	3
50	K8	0	4
52	M8	0	4
54	P8	0	1
55	M5	0	2
55	Q8	0	2
All	All	0	158

The worst 5 of 680 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	1H	2430	A	N9-C4	-17.68	1.27	1.37
26	1H	1698	A	N9-C4	-15.72	1.28	1.37
26	1H	783	A	N3-C4	-14.91	1.25	1.34
26	1H	774	A	N9-C4	-14.16	1.29	1.37
26	14	1786	A	N9-C4	-13.34	1.29	1.37

The worst 5 of 9716 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	1H	1899	G	N3-C4-N9	-30.28	107.83	126.00
26	1H	945	A	N1-C6-N6	25.42	133.85	118.60
26	1H	2287	A	C2-N3-C4	-25.22	97.99	110.60
26	1H	1899	G	N3-C4-C5	25.13	141.17	128.60
26	1H	945	A	C6-C5-N7	-24.82	114.92	132.30

There are no chirality outliers.

5 of 158 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1E	15	VAL	Peptide
10	1I	88	LEU	Peptide
11	2I	102	GLY	Peptide
12	3I	47	LYS	Peptide
9	8E	110	GLU	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	32157	0	16234	821	0
1	1G	32371	0	16342	804	0
2	12	1696	0	1730	97	0
2	1E	1874	0	1926	111	0
3	22	1537	0	1603	75	0
3	2E	1605	0	1668	50	0
4	32	1702	0	1764	122	0
4	3E	1698	0	1759	98	0
5	42	1139	0	1202	51	0
5	4E	1142	0	1204	54	0
6	52	842	0	857	30	0
6	5E	837	0	852	34	0
7	62	1120	0	1167	57	0
7	6E	1242	0	1286	39	0
8	72	1107	0	1165	55	0
8	7E	1115	0	1177	60	0
9	82	953	0	983	81	0
9	8E	1000	0	1031	56	0
10	1A	646	0	662	36	0
10	1I	754	0	769	42	0
11	2A	835	0	847	32	0
11	2I	823	0	833	32	0
12	3A	956	0	1046	42	0
12	3I	956	0	1046	40	0
13	4A	893	0	946	55	0
13	4I	942	0	997	59	0
14	5A	486	0	525	38	0
14	5I	491	0	529	25	0
15	6A	729	0	768	17	0
15	6I	729	0	768	32	0
16	7A	705	0	725	23	0
16	7I	700	0	720	48	0
17	8A	823	0	891	28	0
17	8I	834	0	904	46	0
18	9A	544	0	605	31	0
18	9I	549	0	607	17	0
19	AA	481	0	468	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	AI	661	0	683	64	0
20	BA	762	0	861	35	0
20	BI	746	0	843	44	0
21	1B	188	0	195	10	0
21	1F	199	0	208	14	0
22	1K	1542	0	790	46	0
22	1L	1477	0	758	27	0
23	2K	1646	0	844	24	0
23	2L	1646	0	844	38	0
24	3K	1483	0	756	64	0
24	3L	1528	0	778	49	0
25	4K	464	0	231	20	0
25	4L	419	0	208	11	0
26	14	61505	0	30997	1435	0
26	1H	62204	0	31336	1594	0
27	16	2617	0	1328	73	0
27	1J	2617	0	1328	68	0
28	71	1033	0	1048	73	0
28	79	456	0	460	25	0
29	11	2120	0	2197	133	0
29	19	2125	0	2199	126	0
30	21	1558	0	1624	102	0
30	29	1563	0	1629	99	0
31	31	1585	0	1632	75	0
31	39	1602	0	1649	109	0
32	41	1457	0	1514	89	0
32	49	1468	0	1520	84	0
33	51	1328	0	1396	101	0
33	59	543	0	566	30	0
34	61	1136	0	1223	53	0
34	69	1131	0	1218	54	0
35	15	1104	0	1180	40	0
35	58	1096	0	1169	75	0
36	25	932	0	996	46	0
36	68	932	0	996	29	0
37	35	1122	0	1206	68	0
37	78	1122	0	1206	88	0
38	45	1104	0	1159	91	0
38	88	1117	0	1168	55	0
39	55	967	0	1033	56	0
39	98	967	0	1033	51	0
40	65	876	0	938	73	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	A8	881	0	943	60	0
41	75	1109	0	1170	75	0
41	B8	1124	0	1179	74	0
42	85	959	0	1019	56	0
42	C8	950	0	1011	53	0
43	95	770	0	838	44	0
43	D8	774	0	849	35	0
44	A5	886	0	948	37	0
44	E8	876	0	941	26	0
45	B5	735	0	785	37	0
45	F8	743	0	794	35	0
46	C5	794	0	886	63	0
46	G8	783	0	869	57	0
47	D5	1079	0	1088	62	0
47	H8	1365	0	1391	76	0
48	E5	603	0	620	36	0
48	I8	611	0	631	33	0
49	F5	737	0	813	41	0
49	J8	737	0	813	41	0
50	G5	576	0	625	31	0
50	K8	575	0	634	48	0
51	H5	459	0	512	9	0
51	L8	459	0	512	12	0
52	M8	376	0	374	53	0
53	J5	434	0	454	20	0
53	N8	369	0	388	19	0
54	L5	401	0	436	14	0
54	P8	401	0	436	19	0
55	M5	516	0	581	26	0
55	Q8	516	0	582	40	0
56	11	3	0	0	0	0
56	13	161	0	0	0	0
56	14	471	0	0	0	0
56	16	13	0	0	0	0
56	1G	126	0	0	0	0
56	1H	572	0	0	0	0
56	1J	11	0	0	0	0
56	1K	1	0	0	0	0
56	21	3	0	0	0	0
56	25	2	0	0	0	0
56	29	1	0	0	0	0
56	2A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	2K	3	0	0	0	0
56	2L	3	0	0	0	0
56	32	1	0	0	0	0
56	35	3	0	0	0	0
56	39	2	0	0	0	0
56	41	2	0	0	0	0
56	42	2	0	0	0	0
56	45	2	0	0	0	0
56	4K	1	0	0	0	0
56	52	1	0	0	0	0
56	5E	1	0	0	0	0
56	5I	1	0	0	0	0
56	78	2	0	0	0	0
56	88	3	0	0	0	0
56	98	1	0	0	0	0
56	B5	1	0	0	0	0
56	E5	3	0	0	0	0
56	F8	1	0	0	0	0
56	I8	1	0	0	0	0
56	L8	1	0	0	0	0
56	M5	1	0	0	0	0
56	P8	1	0	0	0	0
56	Q8	1	0	0	0	0
57	32	8	0	0	3	0
57	3E	8	0	0	0	0
58	5A	1	0	0	0	0
58	5I	1	0	0	0	0
58	C5	1	0	0	0	0
58	G8	1	0	0	0	0
59	11	16	0	0	6	0
59	13	389	0	0	54	0
59	14	1225	0	0	216	0
59	16	35	0	0	7	0
59	19	11	0	0	3	0
59	1E	1	0	0	0	0
59	1F	2	0	0	0	0
59	1G	297	0	0	46	0
59	1H	1539	0	0	287	0
59	1I	2	0	0	0	0
59	1J	12	0	0	2	0
59	1K	8	0	0	1	0
59	1L	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	21	7	0	0	1	0
59	25	6	0	0	0	0
59	29	5	0	0	0	0
59	2A	3	0	0	0	0
59	2K	6	0	0	0	0
59	2L	6	0	0	0	0
59	31	6	0	0	0	0
59	32	2	0	0	1	0
59	35	8	0	0	1	0
59	39	7	0	0	0	0
59	3A	1	0	0	0	0
59	3E	2	0	0	0	0
59	3I	2	0	0	0	0
59	3K	1	0	0	0	0
59	41	1	0	0	0	0
59	42	1	0	0	0	0
59	45	4	0	0	0	0
59	4E	1	0	0	0	0
59	4I	2	0	0	0	0
59	4K	5	0	0	0	0
59	4L	5	0	0	0	0
59	52	4	0	0	0	0
59	55	3	0	0	4	0
59	58	2	0	0	0	0
59	5I	2	0	0	0	0
59	62	3	0	0	0	0
59	68	2	0	0	0	0
59	6A	1	0	0	0	0
59	6I	3	0	0	0	0
59	78	8	0	0	1	0
59	7A	6	0	0	0	0
59	7I	1	0	0	0	0
59	85	1	0	0	0	0
59	88	8	0	0	0	0
59	8E	3	0	0	0	0
59	95	1	0	0	0	0
59	9A	2	0	0	1	0
59	A5	1	0	0	0	0
59	B5	1	0	0	0	0
59	BA	5	0	0	0	0
59	C5	3	0	0	0	0
59	C8	4	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	D8	2	0	0	0	0
59	F5	1	0	0	0	0
59	F8	2	0	0	0	0
59	G8	1	0	0	0	0
59	H5	2	0	0	0	0
59	I8	7	0	0	1	0
59	J8	2	0	0	1	0
59	K8	1	0	0	0	0
59	L5	3	0	0	0	0
59	L8	3	0	0	0	0
59	M5	6	0	0	1	0
59	P8	1	0	0	0	0
59	Q8	8	0	0	1	0
All	All	297904	0	196675	8933	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 19.

The worst 5 of 8933 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)
39:55:3:HIS:NE2	59:55:201:HOH:O	1.77	1.14
49:J8:93:GLU:HG3	49:J8:94:LEU:H	1.01	1.12
26:14:730:C:OP2	59:14:3501:HOH:O	1.68	1.11
19:AI:3:ARG:HE	19:AI:9:VAL:HG11	1.10	1.10
26:14:2822:G:N7	59:14:3506:HOH:O	1.84	1.10

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	12	203/256 (79%)	165 (81%)	33 (16%)	5 (2%)	5 25
2	1E	227/256 (89%)	187 (82%)	39 (17%)	1 (0%)	34 69
3	22	191/239 (80%)	165 (86%)	25 (13%)	1 (0%)	29 64
3	2E	203/239 (85%)	183 (90%)	20 (10%)	0	100 100
4	32	206/209 (99%)	181 (88%)	23 (11%)	2 (1%)	15 48
4	3E	205/209 (98%)	191 (93%)	13 (6%)	1 (0%)	29 64
5	42	147/162 (91%)	138 (94%)	9 (6%)	0	100 100
5	4E	147/162 (91%)	138 (94%)	8 (5%)	1 (1%)	22 56
6	52	99/101 (98%)	97 (98%)	2 (2%)	0	100 100
6	5E	98/101 (97%)	92 (94%)	6 (6%)	0	100 100
7	62	136/156 (87%)	123 (90%)	13 (10%)	0	100 100
7	6E	152/156 (97%)	144 (95%)	8 (5%)	0	100 100
8	72	135/138 (98%)	123 (91%)	9 (7%)	3 (2%)	6 28
8	7E	136/138 (99%)	124 (91%)	10 (7%)	2 (2%)	10 38
9	82	119/128 (93%)	110 (92%)	8 (7%)	1 (1%)	19 53
9	8E	124/128 (97%)	106 (86%)	18 (14%)	0	100 100
10	1A	76/105 (72%)	72 (95%)	4 (5%)	0	100 100
10	1I	93/105 (89%)	84 (90%)	9 (10%)	0	100 100
11	2A	111/129 (86%)	101 (91%)	8 (7%)	2 (2%)	8 33
11	2I	109/129 (84%)	98 (90%)	9 (8%)	2 (2%)	8 33
12	3A	120/132 (91%)	102 (85%)	14 (12%)	4 (3%)	4 18
12	3I	120/132 (91%)	106 (88%)	13 (11%)	1 (1%)	19 53
13	4A	109/126 (86%)	91 (84%)	15 (14%)	3 (3%)	5 22
13	4I	117/126 (93%)	97 (83%)	20 (17%)	0	100 100
14	5A	57/61 (93%)	47 (82%)	9 (16%)	1 (2%)	8 33
14	5I	58/61 (95%)	48 (83%)	8 (14%)	2 (3%)	3 17
15	6A	85/89 (96%)	81 (95%)	4 (5%)	0	100 100
15	6I	85/89 (96%)	77 (91%)	8 (9%)	0	100 100
16	7A	82/88 (93%)	74 (90%)	8 (10%)	0	100 100
16	7I	81/88 (92%)	77 (95%)	4 (5%)	0	100 100
17	8A	97/105 (92%)	90 (93%)	7 (7%)	0	100 100
17	8I	98/105 (93%)	92 (94%)	5 (5%)	1 (1%)	15 48

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
18	9A	65/88 (74%)	64 (98%)	1 (2%)	0	100 100
18	9I	66/88 (75%)	61 (92%)	4 (6%)	1 (2%)	10 38
19	AA	56/93 (60%)	48 (86%)	6 (11%)	2 (4%)	3 16
19	AI	80/93 (86%)	68 (85%)	8 (10%)	4 (5%)	2 10
20	BA	97/106 (92%)	79 (81%)	15 (16%)	3 (3%)	4 19
20	BI	95/106 (90%)	84 (88%)	11 (12%)	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	71	129/229 (56%)	122 (95%)	7 (5%)	0	100 100
28	79	45/229 (20%)	43 (96%)	2 (4%)	0	100 100
29	11	271/276 (98%)	237 (88%)	25 (9%)	9 (3%)	4 18
29	19	272/276 (99%)	240 (88%)	25 (9%)	7 (3%)	5 24
30	21	201/206 (98%)	155 (77%)	37 (18%)	9 (4%)	2 12
30	29	202/206 (98%)	152 (75%)	37 (18%)	13 (6%)	1 5
31	31	200/210 (95%)	181 (90%)	19 (10%)	0	100 100
31	39	202/210 (96%)	155 (77%)	40 (20%)	7 (4%)	3 17
32	41	177/182 (97%)	156 (88%)	19 (11%)	2 (1%)	14 46
32	49	179/182 (98%)	155 (87%)	22 (12%)	2 (1%)	14 46
33	51	172/180 (96%)	142 (83%)	20 (12%)	10 (6%)	1 7
33	59	64/180 (36%)	48 (75%)	13 (20%)	3 (5%)	2 11
34	61	144/148 (97%)	116 (81%)	25 (17%)	3 (2%)	7 29
34	69	143/148 (97%)	115 (80%)	24 (17%)	4 (3%)	5 22
35	15	136/140 (97%)	121 (89%)	14 (10%)	1 (1%)	22 56
35	58	135/140 (96%)	115 (85%)	15 (11%)	5 (4%)	3 15
36	25	120/122 (98%)	110 (92%)	9 (8%)	1 (1%)	19 53
36	68	120/122 (98%)	111 (92%)	9 (8%)	0	100 100
37	35	145/150 (97%)	118 (81%)	26 (18%)	1 (1%)	22 56
37	78	145/150 (97%)	114 (79%)	21 (14%)	10 (7%)	1 4
38	45	137/141 (97%)	111 (81%)	23 (17%)	3 (2%)	6 28
38	88	139/141 (99%)	116 (84%)	16 (12%)	7 (5%)	2 10
39	55	116/118 (98%)	110 (95%)	5 (4%)	1 (1%)	17 51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
39	98	116/118 (98%)	99 (85%)	15 (13%)	2 (2%)	9 34
40	65	108/112 (96%)	89 (82%)	16 (15%)	3 (3%)	5 22
40	A8	109/112 (97%)	89 (82%)	20 (18%)	0	100 100
41	75	131/146 (90%)	118 (90%)	11 (8%)	2 (2%)	10 38
41	B8	134/146 (92%)	119 (89%)	14 (10%)	1 (1%)	22 56
42	85	114/118 (97%)	102 (90%)	9 (8%)	3 (3%)	5 24
42	C8	113/118 (96%)	102 (90%)	8 (7%)	3 (3%)	5 23
43	95	98/101 (97%)	80 (82%)	15 (15%)	3 (3%)	4 19
43	D8	98/101 (97%)	87 (89%)	8 (8%)	3 (3%)	4 19
44	A5	109/113 (96%)	101 (93%)	7 (6%)	1 (1%)	17 51
44	E8	108/113 (96%)	100 (93%)	7 (6%)	1 (1%)	17 51
45	B5	92/96 (96%)	83 (90%)	6 (6%)	3 (3%)	4 18
45	F8	93/96 (97%)	85 (91%)	8 (9%)	0	100 100
46	C5	102/110 (93%)	75 (74%)	20 (20%)	7 (7%)	1 4
46	G8	101/110 (92%)	82 (81%)	13 (13%)	6 (6%)	1 7
47	D5	127/206 (62%)	98 (77%)	26 (20%)	3 (2%)	6 26
47	H8	168/206 (82%)	136 (81%)	26 (16%)	6 (4%)	3 16
48	E5	74/85 (87%)	65 (88%)	7 (10%)	2 (3%)	5 23
48	I8	75/85 (88%)	67 (89%)	7 (9%)	1 (1%)	12 41
49	F5	92/98 (94%)	78 (85%)	12 (13%)	2 (2%)	6 28
49	J8	92/98 (94%)	86 (94%)	5 (5%)	1 (1%)	14 46
50	G5	67/72 (93%)	61 (91%)	4 (6%)	2 (3%)	4 20
50	K8	66/72 (92%)	60 (91%)	3 (4%)	3 (4%)	2 12
51	H5	56/60 (93%)	52 (93%)	4 (7%)	0	100 100
51	L8	56/60 (93%)	53 (95%)	3 (5%)	0	100 100
52	M8	47/71 (66%)	28 (60%)	17 (36%)	2 (4%)	2 12
53	J5	54/60 (90%)	49 (91%)	5 (9%)	0	100 100
53	N8	46/60 (77%)	44 (96%)	2 (4%)	0	100 100
54	L5	45/49 (92%)	42 (93%)	3 (7%)	0	100 100
54	P8	45/49 (92%)	40 (89%)	4 (9%)	1 (2%)	6 28
55	M5	62/65 (95%)	51 (82%)	10 (16%)	1 (2%)	9 36

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
55	Q8	62/65 (95%)	53 (86%)	6 (10%)	3 (5%)	2 11
All	All	10980/12333 (89%)	9564 (87%)	1210 (11%)	206 (2%)	8 32

5 of 206 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
12	3I	48	PRO
14	5I	13	THR
19	AI	9	VAL
19	AI	41	VAL
29	11	28	GLU

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%)	148 (83%)	31 (17%)	2 8
2	1E	200/220 (91%)	152 (76%)	48 (24%)	0 2
3	22	154/188 (82%)	122 (79%)	32 (21%)	1 4
3	2E	159/188 (85%)	123 (77%)	36 (23%)	1 3
4	32	180/181 (99%)	142 (79%)	38 (21%)	1 4
4	3E	180/181 (99%)	140 (78%)	40 (22%)	1 3
5	42	114/123 (93%)	91 (80%)	23 (20%)	1 5
5	4E	115/123 (94%)	94 (82%)	21 (18%)	1 7
6	52	90/90 (100%)	69 (77%)	21 (23%)	1 3
6	5E	90/90 (100%)	70 (78%)	20 (22%)	1 3
7	62	114/127 (90%)	91 (80%)	23 (20%)	1 5
7	6E	125/127 (98%)	107 (86%)	18 (14%)	3 13
8	72	118/119 (99%)	96 (81%)	22 (19%)	1 7
8	7E	119/119 (100%)	90 (76%)	29 (24%)	0 2
9	82	92/99 (93%)	74 (80%)	18 (20%)	1 6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
9	8E	97/99 (98%)	76 (78%)	21 (22%)	1 4
10	1A	71/92 (77%)	59 (83%)	12 (17%)	2 9
10	1I	81/92 (88%)	69 (85%)	12 (15%)	3 12
11	2A	85/99 (86%)	70 (82%)	15 (18%)	2 8
11	2I	84/99 (85%)	65 (77%)	19 (23%)	1 3
12	3A	103/109 (94%)	77 (75%)	26 (25%)	0 2
12	3I	103/109 (94%)	83 (81%)	20 (19%)	1 6
13	4A	91/101 (90%)	66 (72%)	25 (28%)	0 1
13	4I	94/101 (93%)	74 (79%)	20 (21%)	1 4
14	5A	49/50 (98%)	38 (78%)	11 (22%)	1 3
14	5I	49/50 (98%)	39 (80%)	10 (20%)	1 5
15	6A	79/80 (99%)	67 (85%)	12 (15%)	3 12
15	6I	79/80 (99%)	65 (82%)	14 (18%)	2 8
16	7A	72/74 (97%)	56 (78%)	16 (22%)	1 3
16	7I	72/74 (97%)	57 (79%)	15 (21%)	1 4
17	8A	94/97 (97%)	82 (87%)	12 (13%)	4 17
17	8I	95/97 (98%)	78 (82%)	17 (18%)	2 7
18	9A	58/77 (75%)	44 (76%)	14 (24%)	0 2
18	9I	58/77 (75%)	47 (81%)	11 (19%)	1 6
19	AA	52/80 (65%)	41 (79%)	11 (21%)	1 4
19	AI	72/80 (90%)	59 (82%)	13 (18%)	1 7
20	BA	76/82 (93%)	63 (83%)	13 (17%)	2 8
20	BI	75/82 (92%)	61 (81%)	14 (19%)	1 7
21	1B	17/22 (77%)	16 (94%)	1 (6%)	19 50
21	1F	18/22 (82%)	14 (78%)	4 (22%)	1 3
28	71	109/181 (60%)	87 (80%)	22 (20%)	1 5
28	79	48/181 (26%)	34 (71%)	14 (29%)	0 1
29	11	214/218 (98%)	165 (77%)	49 (23%)	1 3
29	19	214/218 (98%)	167 (78%)	47 (22%)	1 4
30	21	165/166 (99%)	131 (79%)	34 (21%)	1 4
30	29	165/166 (99%)	127 (77%)	38 (23%)	1 3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
31	31	161/166 (97%)	127 (79%)	34 (21%)	1 4
31	39	163/166 (98%)	122 (75%)	41 (25%)	0 2
32	41	153/156 (98%)	118 (77%)	35 (23%)	1 3
32	49	153/156 (98%)	120 (78%)	33 (22%)	1 4
33	51	143/148 (97%)	107 (75%)	36 (25%)	0 2
33	59	56/148 (38%)	46 (82%)	10 (18%)	2 7
34	61	122/124 (98%)	87 (71%)	35 (29%)	0 1
34	69	122/124 (98%)	95 (78%)	27 (22%)	1 3
35	15	117/119 (98%)	87 (74%)	30 (26%)	0 2
35	58	116/119 (98%)	87 (75%)	29 (25%)	0 2
36	25	100/100 (100%)	78 (78%)	22 (22%)	1 4
36	68	100/100 (100%)	79 (79%)	21 (21%)	1 4
37	35	114/116 (98%)	83 (73%)	31 (27%)	0 1
37	78	114/116 (98%)	77 (68%)	37 (32%)	0 1
38	45	109/111 (98%)	84 (77%)	25 (23%)	1 3
38	88	110/111 (99%)	91 (83%)	19 (17%)	2 8
39	55	101/101 (100%)	79 (78%)	22 (22%)	1 4
39	98	101/101 (100%)	73 (72%)	28 (28%)	0 1
40	65	87/88 (99%)	61 (70%)	26 (30%)	0 1
40	A8	87/88 (99%)	58 (67%)	29 (33%)	0 1
41	75	117/127 (92%)	83 (71%)	34 (29%)	0 1
41	B8	117/127 (92%)	86 (74%)	31 (26%)	0 2
42	85	93/94 (99%)	73 (78%)	20 (22%)	1 4
42	C8	92/94 (98%)	73 (79%)	19 (21%)	1 4
43	95	81/82 (99%)	62 (76%)	19 (24%)	1 3
43	D8	82/82 (100%)	61 (74%)	21 (26%)	0 2
44	A5	91/92 (99%)	70 (77%)	21 (23%)	1 3
44	E8	90/92 (98%)	73 (81%)	17 (19%)	1 7
45	B5	74/78 (95%)	58 (78%)	16 (22%)	1 4
45	F8	75/78 (96%)	62 (83%)	13 (17%)	2 8
46	C5	85/91 (93%)	57 (67%)	28 (33%)	0 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
46	G8	84/91 (92%)	63 (75%)	21 (25%)	0 2
47	D5	118/179 (66%)	92 (78%)	26 (22%)	1 4
47	H8	151/179 (84%)	122 (81%)	29 (19%)	1 6
48	E5	61/67 (91%)	55 (90%)	6 (10%)	8 27
48	I8	62/67 (92%)	49 (79%)	13 (21%)	1 4
49	F5	79/83 (95%)	59 (75%)	20 (25%)	0 2
49	J8	79/83 (95%)	65 (82%)	14 (18%)	2 8
50	G5	63/67 (94%)	45 (71%)	18 (29%)	0 1
50	K8	64/67 (96%)	45 (70%)	19 (30%)	0 1
51	H5	50/52 (96%)	38 (76%)	12 (24%)	0 2
51	L8	50/52 (96%)	36 (72%)	14 (28%)	0 1
52	M8	42/63 (67%)	33 (79%)	9 (21%)	1 4
53	J5	48/52 (92%)	36 (75%)	12 (25%)	0 2
53	N8	43/52 (83%)	34 (79%)	9 (21%)	1 4
54	L5	38/42 (90%)	33 (87%)	5 (13%)	4 16
54	P8	38/42 (90%)	31 (82%)	7 (18%)	1 7
55	M5	54/55 (98%)	41 (76%)	13 (24%)	0 2
55	Q8	54/55 (98%)	43 (80%)	11 (20%)	1 5
All	All	9272/10193 (91%)	7223 (78%)	2049 (22%)	1 3

5 of 2049 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
42	85	114	LYS
45	B5	82	GLN
42	85	109	LEU
39	98	111	LEU
39	98	10	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 30 such sidechains are listed below:

Mol	Chain	Res	Type
47	H8	85	HIS
38	45	123	HIS
2	12	19	HIS

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Mol	Chain	Res	Type
46	C5	6	HIS
30	29	54	GLN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1493/1519 (98%)	369 (24%)	38 (2%)
1	1G	1505/1519 (99%)	349 (23%)	37 (2%)
22	1K	68/76 (89%)	30 (44%)	5 (7%)
22	1L	64/76 (84%)	21 (32%)	4 (6%)
23	2K	76/77 (98%)	29 (38%)	1 (1%)
23	2L	76/77 (98%)	18 (23%)	2 (2%)
24	3K	67/76 (88%)	39 (58%)	4 (5%)
24	3L	69/76 (90%)	31 (44%)	2 (2%)
25	4K	19/27 (70%)	11 (57%)	2 (10%)
25	4L	18/27 (66%)	8 (44%)	2 (11%)
26	14	2847/2917 (97%)	762 (26%)	53 (1%)
26	1H	2878/2917 (98%)	709 (24%)	57 (1%)
27	16	121/122 (99%)	28 (23%)	2 (1%)
27	1J	121/122 (99%)	34 (28%)	2 (1%)
All	All	9422/9628 (97%)	2438 (25%)	211 (2%)

5 of 2438 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	2	U
1	13	5	U
1	13	6	G
1	13	9	G
1	13	15	G

5 of 211 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1G	251	G
1	1G	1442	G
26	14	2432	A
1	1G	412	A
1	1G	972	C

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

20 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	$\#\|Z\| > 2$
22	5MU	1K	54	22	19,22,23	3.83	5 (26%)	28,32,35	2.78	8 (28%)
23	4SU	2K	8	23	18,21,22	1.93	3 (16%)	26,30,33	2.60	5 (19%)
23	5MU	2L	55	23	19,22,23	3.82	5 (26%)	28,32,35	3.43	9 (32%)
22	PSU	1L	39	22	18,21,22	1.08	1 (5%)	22,30,33	1.43	3 (13%)
22	T6A	1K	37	22	27,34,35	2.45	7 (25%)	29,49,52	2.00	8 (27%)
23	OMC	2K	33	23	19,22,23	1.59	3 (15%)	26,31,34	1.05	3 (11%)
22	U8U	1L	34	25,22	19,24,25	2.54	7 (36%)	23,34,37	1.22	3 (13%)
22	T6A	1L	37	22	27,34,35	2.46	5 (18%)	29,49,52	2.40	7 (24%)
23	4SU	2L	8	23	18,21,22	1.91	3 (16%)	26,30,33	2.67	5 (19%)
23	OMC	2L	33	23	19,22,23	1.59	3 (15%)	26,31,34	1.11	1 (3%)
23	5MU	2K	55	23	19,22,23	3.90	5 (26%)	28,32,35	3.33	7 (25%)
23	PSU	2L	56	23	18,21,22	1.20	1 (5%)	22,30,33	1.56	2 (9%)
22	U8U	1K	34	25,22	19,24,25	2.35	7 (36%)	23,34,37	1.15	2 (8%)
22	5MU	1L	54	22	19,22,23	3.92	5 (26%)	28,32,35	3.33	7 (25%)
22	PSU	1K	55	22	18,21,22	1.26	1 (5%)	22,30,33	1.63	4 (18%)
23	G7M	2K	47	23	20,26,27	4.74	5 (25%)	17,39,42	1.03	1 (5%)
22	PSU	1L	55	22	18,21,22	1.18	2 (11%)	22,30,33	1.51	4 (18%)
22	PSU	1K	39	22	18,21,22	1.00	1 (5%)	22,30,33	1.50	3 (13%)
23	G7M	2L	47	23	20,26,27	4.80	5 (25%)	17,39,42	1.15	1 (5%)
23	PSU	2K	56	23	18,21,22	1.32	2 (11%)	22,30,33	2.18	6 (27%)

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
22	5MU	1K	54	22	-	0/7/25/26	0/2/2/2
23	4SU	2K	8	23	-	0/7/25/26	0/2/2/2
23	5MU	2L	55	23	-	0/7/25/26	0/2/2/2
22	PSU	1L	39	22	-	2/7/25/26	0/2/2/2
22	T6A	1K	37	22	-	2/19/41/42	0/3/3/3
23	OMC	2K	33	23	-	1/9/27/28	0/2/2/2
22	U8U	1L	34	25,22	-	4/9/28/29	0/2/2/2
22	T6A	1L	37	22	-	2/19/41/42	0/3/3/3
23	4SU	2L	8	23	-	0/7/25/26	0/2/2/2
23	OMC	2L	33	23	-	1/9/27/28	0/2/2/2
23	5MU	2K	55	23	-	0/7/25/26	0/2/2/2
23	PSU	2L	56	23	-	1/7/25/26	0/2/2/2
22	U8U	1K	34	25,22	-	0/9/28/29	0/2/2/2
22	5MU	1L	54	22	-	0/7/25/26	0/2/2/2
22	PSU	1K	55	22	-	0/7/25/26	0/2/2/2
23	G7M	2K	47	23	-	0/3/25/26	0/3/3/3
22	PSU	1L	55	22	-	1/7/25/26	0/2/2/2
22	PSU	1K	39	22	-	0/7/25/26	0/2/2/2
23	G7M	2L	47	23	-	2/3/25/26	0/3/3/3
23	PSU	2K	56	23	-	1/7/25/26	0/2/2/2

The worst 5 of 76 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	47	G7M	C8-N7	17.66	1.65	1.33
23	2K	47	G7M	C8-N7	17.24	1.64	1.33
22	1L	54	5MU	C2-N1	12.90	1.59	1.38
23	2K	55	5MU	C2-N1	12.73	1.58	1.38
22	1K	54	5MU	C2-N1	12.30	1.58	1.38

The worst 5 of 89 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	1L	54	5MU	C5-C4-N3	11.37	125.02	115.31
23	2L	55	5MU	C5-C4-N3	10.81	124.54	115.31
23	2K	55	5MU	C5-C4-N3	10.47	124.25	115.31
22	1K	54	5MU	C5-C4-N3	9.27	123.22	115.31
23	2K	8	4SU	C4-N3-C2	-8.95	118.65	127.34

There are no chirality outliers.

5 of 17 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	1L	34	U8U	N-C-C5-C4
22	1L	34	U8U	O4'-C4'-C5'-O5'
23	2K	33	OMC	C1'-C2'-O2'-CM2
22	1L	34	U8U	C3'-C4'-C5'-O5'
23	2L	47	G7M	O4'-C4'-C5'-O5'

There are no ring outliers.

16 monomers are involved in 22 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	1K	54	5MU	1	0
23	2L	55	5MU	2	0
22	1L	39	PSU	1	0
23	2K	33	OMC	1	0
22	1L	34	U8U	1	0
23	2L	8	4SU	1	0
23	2L	33	OMC	1	0
23	2K	55	5MU	2	0
23	2L	56	PSU	2	0
22	1K	34	U8U	3	0
22	1L	54	5MU	1	0
22	1K	55	PSU	2	0
23	2K	47	G7M	1	0
22	1L	55	PSU	1	0
23	2L	47	G7M	2	0
23	2K	56	PSU	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 1409 ligands modelled in this entry, 1407 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
57	SF4	3E	301	4	0,12,12	-	-	-		
57	SF4	32	302	4	0,12,12	-	-	-		

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
57	SF4	3E	301	4	-	-	0/6/5/5
57	SF4	32	302	4	-	-	0/6/5/5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
57	32	302	SF4	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
25	4K	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4K	25:A	O3'	26:A	P	3.07

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	13	1496/1519 (98%)	-0.23	4 (0%) 94 87	52, 95, 168, 235	0
1	1G	1506/1519 (99%)	-0.26	8 (0%) 91 81	67, 112, 176, 243	0
2	12	207/256 (80%)	0.54	20 (9%) 7 4	128, 159, 178, 183	0
2	1E	231/256 (90%)	0.19	13 (5%) 24 15	108, 138, 168, 172	0
3	22	195/239 (81%)	0.92	39 (20%) 1 0	119, 140, 163, 172	0
3	2E	205/239 (85%)	0.51	13 (6%) 20 11	82, 105, 135, 142	0
4	32	208/209 (99%)	0.65	24 (11%) 4 3	92, 113, 135, 140	0
4	3E	207/209 (99%)	0.22	12 (5%) 23 14	77, 104, 125, 136	0
5	42	149/162 (91%)	0.33	6 (4%) 38 25	97, 118, 134, 142	0
5	4E	149/162 (91%)	0.15	3 (2%) 65 48	76, 96, 115, 122	0
6	52	101/101 (100%)	-0.06	0 100 100	81, 99, 115, 130	0
6	5E	100/101 (99%)	0.33	2 (2%) 65 48	76, 97, 116, 122	0
7	62	140/156 (89%)	0.94	24 (17%) 1 1	108, 126, 138, 140	0
7	6E	154/156 (98%)	1.33	38 (24%) 0 0	96, 114, 144, 165	0
8	72	137/138 (99%)	0.55	14 (10%) 6 4	95, 123, 136, 143	0
8	7E	138/138 (100%)	0.93	24 (17%) 1 1	84, 104, 116, 127	0
9	82	121/128 (94%)	1.98	51 (42%) 0 0	109, 156, 170, 181	0
9	8E	126/128 (98%)	0.36	10 (7%) 12 7	80, 133, 153, 158	0
10	1A	80/105 (76%)	0.97	21 (26%) 0 0	114, 151, 163, 163	0
10	1I	95/105 (90%)	1.18	25 (26%) 0 0	76, 120, 160, 164	0
11	2A	113/129 (87%)	1.32	30 (26%) 0 0	78, 106, 120, 129	0
11	2I	111/129 (86%)	1.39	31 (27%) 0 0	69, 102, 117, 129	0
12	3A	122/132 (92%)	1.40	36 (29%) 0 0	80, 96, 120, 140	0
12	3I	122/132 (92%)	0.40	9 (7%) 14 8	61, 72, 100, 126	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	4A	111/126 (88%)	0.71	25 (22%) 0 0	112, 142, 159, 167	0
13	4I	119/126 (94%)	0.50	9 (7%) 13 7	81, 108, 129, 137	0
14	5A	59/61 (96%)	3.29	40 (67%) 0 0	124, 137, 150, 154	0
14	5I	60/61 (98%)	0.88	7 (11%) 4 2	77, 93, 107, 120	0
15	6A	87/89 (97%)	0.07	1 (1%) 80 65	78, 106, 118, 120	0
15	6I	87/89 (97%)	0.28	4 (4%) 32 20	73, 92, 109, 116	0
16	7A	84/88 (95%)	0.14	1 (1%) 79 63	88, 101, 121, 145	0
16	7I	83/88 (94%)	1.26	17 (20%) 1 0	93, 106, 134, 154	0
17	8A	99/105 (94%)	0.96	17 (17%) 1 1	90, 105, 120, 124	0
17	8I	100/105 (95%)	0.73	11 (11%) 5 3	85, 101, 110, 115	0
18	9A	67/88 (76%)	0.08	1 (1%) 73 57	89, 107, 126, 130	0
18	9I	68/88 (77%)	0.11	2 (2%) 51 35	83, 102, 124, 127	0
19	AA	62/93 (66%)	0.45	5 (8%) 12 6	132, 153, 166, 171	0
19	AI	82/93 (88%)	0.25	8 (9%) 7 4	83, 106, 127, 139	0
20	BA	99/106 (93%)	1.05	20 (20%) 1 0	84, 104, 131, 142	0
20	BI	97/106 (91%)	1.45	27 (27%) 0 0	98, 116, 141, 150	0
21	1B	22/27 (81%)	1.57	8 (36%) 0 0	118, 127, 133, 141	0
21	1F	23/27 (85%)	0.65	1 (4%) 35 22	84, 95, 101, 111	0
22	1K	67/76 (88%)	0.15	4 (5%) 21 13	76, 147, 198, 203	0
22	1L	64/76 (84%)	1.01	10 (15%) 2 1	108, 196, 215, 219	0
23	2K	72/77 (93%)	-0.13	0 100 100	64, 86, 118, 128	0
23	2L	72/77 (93%)	-0.01	0 100 100	73, 105, 137, 148	0
24	3K	70/76 (92%)	0.90	13 (18%) 1 0	71, 198, 240, 244	0
24	3L	72/76 (94%)	0.08	2 (2%) 53 36	77, 194, 224, 230	0
25	4K	21/27 (77%)	1.35	8 (38%) 0 0	67, 124, 208, 209	0
25	4L	19/27 (70%)	0.91	3 (15%) 2 1	86, 143, 217, 218	0
26	14	2855/2917 (97%)	-0.08	22 (0%) 86 73	45, 78, 200, 265	0
26	1H	2885/2917 (98%)	-0.09	9 (0%) 94 87	36, 66, 193, 330	0
27	16	122/122 (100%)	-0.53	1 (0%) 86 73	57, 82, 103, 188	0
27	1J	122/122 (100%)	-0.55	0 100 100	78, 110, 130, 191	0
28	71	133/229 (58%)	1.05	24 (18%) 1 1	146, 216, 237, 244	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	79	57/229 (24%)	1.79	21 (36%) 0 0	146, 199, 221, 227	0
29	11	273/276 (98%)	0.36	2 (0%) 87 76	37, 59, 76, 92	0
29	19	274/276 (99%)	0.45	7 (2%) 56 39	46, 69, 87, 106	0
30	21	203/206 (98%)	0.60	14 (6%) 16 10	46, 80, 123, 134	0
30	29	204/206 (99%)	0.77	29 (14%) 2 1	53, 88, 124, 134	0
31	31	202/210 (96%)	0.68	16 (7%) 12 7	43, 72, 107, 128	0
31	39	204/210 (97%)	0.40	9 (4%) 34 21	51, 98, 144, 167	0
32	41	179/182 (98%)	0.81	25 (13%) 2 1	72, 93, 130, 142	0
32	49	181/182 (99%)	1.07	39 (21%) 0 0	106, 125, 148, 166	0
33	51	174/180 (96%)	0.09	7 (4%) 38 25	75, 98, 112, 124	0
33	59	70/180 (38%)	0.85	13 (18%) 1 0	136, 156, 178, 182	0
34	61	146/148 (98%)	0.45	12 (8%) 11 6	73, 123, 144, 151	0
34	69	145/148 (97%)	0.52	18 (12%) 4 2	83, 118, 146, 155	0
35	15	138/140 (98%)	1.23	32 (23%) 0 0	73, 99, 128, 143	0
35	58	137/140 (97%)	0.79	13 (9%) 8 5	61, 83, 118, 132	0
36	25	122/122 (100%)	0.97	16 (13%) 3 2	64, 81, 99, 111	0
36	68	122/122 (100%)	0.43	1 (0%) 86 73	53, 68, 85, 93	0
37	35	147/150 (98%)	0.56	9 (6%) 21 12	52, 95, 126, 140	0
37	78	147/150 (98%)	0.37	6 (4%) 37 24	42, 74, 98, 107	0
38	45	139/141 (98%)	0.72	18 (12%) 3 2	64, 95, 114, 130	0
38	88	141/141 (100%)	0.32	8 (5%) 23 14	49, 70, 92, 112	0
39	55	118/118 (100%)	0.55	5 (4%) 36 23	59, 74, 88, 106	0
39	98	118/118 (100%)	1.04	20 (16%) 1 1	58, 76, 93, 107	0
40	65	110/112 (98%)	1.02	22 (20%) 1 0	82, 104, 124, 131	0
40	A8	111/112 (99%)	1.00	13 (11%) 4 2	66, 82, 103, 110	0
41	75	133/146 (91%)	0.59	9 (6%) 17 10	77, 91, 124, 144	0
41	B8	136/146 (93%)	0.21	5 (3%) 41 27	64, 83, 122, 132	0
42	85	116/118 (98%)	0.51	5 (4%) 35 22	60, 87, 118, 120	0
42	C8	115/118 (97%)	0.40	3 (2%) 56 39	50, 73, 102, 109	0
43	95	100/101 (99%)	0.84	16 (16%) 1 1	58, 109, 127, 135	0
43	D8	100/101 (99%)	0.92	14 (14%) 2 1	52, 96, 116, 127	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	A5	111/113 (98%)	0.67	6 (5%) 25 16	55, 70, 94, 135	0
44	E8	110/113 (97%)	0.50	6 (5%) 25 15	51, 67, 91, 104	0
45	B5	94/96 (97%)	0.81	11 (11%) 4 2	62, 78, 98, 110	0
45	F8	95/96 (98%)	0.09	1 (1%) 80 65	47, 63, 90, 97	0
46	C5	104/110 (94%)	1.83	32 (30%) 0 0	85, 113, 147, 155	0
46	G8	103/110 (93%)	0.34	5 (4%) 29 18	66, 88, 118, 129	0
47	D5	133/206 (64%)	0.96	22 (16%) 1 1	102, 130, 153, 163	0
47	H8	170/206 (82%)	1.10	31 (18%) 1 1	76, 111, 188, 193	0
48	E5	76/85 (89%)	0.95	11 (14%) 2 1	56, 83, 96, 104	0
48	I8	77/85 (90%)	0.59	6 (7%) 13 7	45, 65, 78, 93	0
49	F5	94/98 (95%)	1.05	18 (19%) 1 0	59, 76, 106, 129	0
49	J8	94/98 (95%)	0.66	6 (6%) 19 11	46, 67, 110, 116	0
50	G5	69/72 (95%)	0.36	4 (5%) 23 14	77, 96, 116, 124	0
50	K8	68/72 (94%)	-0.02	1 (1%) 73 57	54, 72, 92, 114	0
51	H5	58/60 (96%)	1.84	24 (41%) 0 0	70, 90, 116, 124	0
51	L8	58/60 (96%)	0.49	3 (5%) 27 17	55, 74, 99, 111	0
52	M8	49/71 (69%)	1.67	15 (30%) 0 0	94, 136, 150, 166	0
53	J5	56/60 (93%)	0.63	5 (8%) 9 5	52, 77, 126, 137	0
53	N8	48/60 (80%)	0.48	2 (4%) 36 23	44, 77, 124, 127	0
54	L5	47/49 (95%)	0.16	1 (2%) 63 46	44, 55, 77, 97	0
54	P8	47/49 (95%)	-0.00	0 100 100	40, 46, 68, 76	0
55	M5	64/65 (98%)	1.05	9 (14%) 2 1	62, 73, 88, 112	0
55	Q8	64/65 (98%)	0.42	3 (4%) 31 20	47, 60, 76, 88	0
All	All	20647/21961 (94%)	0.32	1406 (6%) 17 10	36, 93, 171, 330	0

The worst 5 of 1406 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
46	C5	58	GLY	12.3
26	14	2902	C	12.1
26	14	2901	C	11.2
43	D8	37	VAL	10.9
40	A8	110	LEU	10.1

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
22	PSU	1L	55	20/21	0.84	0.13	113,126,140,141	0
22	PSU	1L	39	20/21	0.89	0.23	88,116,127,129	0
22	PSU	1K	55	20/21	0.89	0.12	95,109,120,124	0
22	5MU	1L	54	21/22	0.90	0.12	113,125,134,142	0
22	5MU	1K	54	21/22	0.91	0.14	93,106,119,128	0
22	T6A	1L	37	32/33	0.93	0.21	91,110,116,118	0
22	U8U	1L	34	23/24	0.93	0.18	102,117,122,124	0
23	PSU	2K	56	20/21	0.93	0.10	86,90,100,104	0
23	PSU	2L	56	20/21	0.93	0.10	98,105,111,115	0
23	5MU	2L	55	21/22	0.94	0.12	99,108,115,124	0
22	PSU	1K	39	20/21	0.94	0.15	74,91,100,100	0
23	G7M	2L	47	24/25	0.94	0.13	110,117,123,127	0
23	4SU	2L	8	20/21	0.95	0.15	94,104,108,112	0
22	T6A	1K	37	32/33	0.96	0.16	58,79,98,99	0
23	5MU	2K	55	21/22	0.96	0.12	89,95,100,103	0
22	U8U	1K	34	23/24	0.96	0.15	76,81,86,100	0
23	OMC	2L	33	21/22	0.96	0.13	88,93,99,103	0
23	G7M	2K	47	24/25	0.96	0.13	86,95,107,113	0
23	OMC	2K	33	21/22	0.97	0.21	67,74,78,82	0
23	4SU	2K	8	20/21	0.97	0.14	75,83,88,90	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, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3345	1/1	0.19	0.12	91,91,91,91	0
56	MG	1H	3156	1/1	0.39	0.34	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1G	1661	1/1	0.42	0.68	92,92,92,92	0
56	MG	1H	3445	1/1	0.46	0.11	90,90,90,90	0
56	MG	14	3447	1/1	0.46	0.18	116,116,116,116	0
56	MG	14	3118	1/1	0.47	0.31	89,89,89,89	0
56	MG	1H	3557	1/1	0.47	0.12	84,84,84,84	0
56	MG	1H	3431	1/1	0.48	0.21	74,74,74,74	0
56	MG	13	1730	1/1	0.50	0.22	102,102,102,102	0
56	MG	13	1679	1/1	0.51	0.32	81,81,81,81	0
56	MG	1H	3219	1/1	0.51	0.18	79,79,79,79	0
56	MG	13	1760	1/1	0.51	0.05	113,113,113,113	0
56	MG	1G	1656	1/1	0.52	0.83	89,89,89,89	0
56	MG	13	1744	1/1	0.52	0.10	111,111,111,111	0
56	MG	14	3465	1/1	0.52	0.13	85,85,85,85	0
56	MG	14	3192	1/1	0.53	0.36	81,81,81,81	0
56	MG	1H	3479	1/1	0.53	0.16	99,99,99,99	0
56	MG	1H	3549	1/1	0.53	0.15	75,75,75,75	0
56	MG	4K	101	1/1	0.54	0.68	96,96,96,96	0
56	MG	35	203	1/1	0.54	0.16	83,83,83,83	0
56	MG	1H	3251	1/1	0.55	0.25	80,80,80,80	0
56	MG	13	1756	1/1	0.55	0.07	120,120,120,120	0
56	MG	13	1655	1/1	0.56	0.27	99,99,99,99	0
56	MG	13	1759	1/1	0.56	0.06	118,118,118,118	0
56	MG	1H	3524	1/1	0.58	0.12	96,96,96,96	0
56	MG	1H	3211	1/1	0.59	0.17	90,90,90,90	0
56	MG	1H	3012	1/1	0.59	0.20	78,78,78,78	0
56	MG	1H	3533	1/1	0.59	0.17	86,86,86,86	0
56	MG	13	1752	1/1	0.59	0.14	108,108,108,108	0
56	MG	14	3157	1/1	0.61	0.18	76,76,76,76	0
56	MG	13	1627	1/1	0.61	0.37	82,82,82,82	0
56	MG	14	3301	1/1	0.61	0.08	111,111,111,111	0
56	MG	1H	3257	1/1	0.61	0.27	83,83,83,83	0
56	MG	1G	1617	1/1	0.61	0.88	86,86,86,86	0
56	MG	1J	206	1/1	0.61	0.14	86,86,86,86	0
56	MG	14	3141	1/1	0.61	0.66	86,86,86,86	0
56	MG	14	3298	1/1	0.62	0.21	105,105,105,105	0
56	MG	L8	101	1/1	0.62	0.39	80,80,80,80	0
56	MG	1H	3473	1/1	0.62	0.15	88,88,88,88	0
56	MG	1H	3210	1/1	0.62	0.34	75,75,75,75	0
56	MG	13	1758	1/1	0.62	0.06	137,137,137,137	0
56	MG	14	3200	1/1	0.62	0.47	94,94,94,94	0
56	MG	14	3190	1/1	0.63	0.27	81,81,81,81	0
56	MG	1G	1645	1/1	0.63	0.13	113,113,113,113	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3169	1/1	0.63	0.21	111,111,111,111	0
56	MG	1H	3085	1/1	0.64	0.11	85,85,85,85	0
56	MG	13	1747	1/1	0.64	0.10	107,107,107,107	0
56	MG	16	203	1/1	0.64	0.10	78,78,78,78	0
56	MG	1J	207	1/1	0.64	0.07	88,88,88,88	0
56	MG	2K	101	1/1	0.64	0.22	91,91,91,91	0
56	MG	14	3177	1/1	0.65	0.21	91,91,91,91	0
56	MG	14	3454	1/1	0.65	0.22	78,78,78,78	0
56	MG	1H	3411	1/1	0.66	0.12	65,65,65,65	0
56	MG	14	3393	1/1	0.66	0.07	98,98,98,98	0
56	MG	14	3417	1/1	0.66	0.09	116,116,116,116	0
56	MG	14	3440	1/1	0.66	0.10	95,95,95,95	0
56	MG	1H	3194	1/1	0.66	0.48	83,83,83,83	0
56	MG	1H	3142	1/1	0.66	0.16	74,74,74,74	0
56	MG	14	3111	1/1	0.66	0.33	73,73,73,73	0
56	MG	1G	1614	1/1	0.66	0.32	91,91,91,91	0
56	MG	14	3214	1/1	0.66	0.32	113,113,113,113	0
56	MG	1H	3239	1/1	0.66	0.39	69,69,69,69	0
56	MG	P8	101	1/1	0.67	0.51	66,66,66,66	0
56	MG	14	3464	1/1	0.67	0.13	105,105,105,105	0
56	MG	14	3176	1/1	0.67	0.38	72,72,72,72	0
56	MG	1H	3547	1/1	0.67	0.11	91,91,91,91	0
56	MG	1H	3562	1/1	0.67	0.12	69,69,69,69	0
56	MG	14	3299	1/1	0.67	0.06	99,99,99,99	0
56	MG	14	3179	1/1	0.68	0.26	92,92,92,92	0
56	MG	42	202	1/1	0.68	0.24	110,110,110,110	0
56	MG	1H	3270	1/1	0.68	0.46	78,78,78,78	0
56	MG	14	3158	1/1	0.68	0.32	91,91,91,91	0
56	MG	1G	1698	1/1	0.68	0.06	102,102,102,102	0
56	MG	14	3128	1/1	0.68	0.27	49,49,49,49	0
56	MG	1H	3099	1/1	0.69	0.39	80,80,80,80	0
56	MG	1H	3076	1/1	0.69	0.81	60,60,60,60	0
56	MG	1H	3501	1/1	0.69	0.10	76,76,76,76	0
56	MG	1G	1713	1/1	0.69	0.12	112,112,112,112	0
56	MG	14	3199	1/1	0.69	0.31	89,89,89,89	0
56	MG	1H	3421	1/1	0.70	0.12	98,98,98,98	0
56	MG	14	3432	1/1	0.70	0.20	92,92,92,92	0
56	MG	21	302	1/1	0.70	0.42	75,75,75,75	0
56	MG	1G	1631	1/1	0.70	0.12	99,99,99,99	0
56	MG	1G	1719	1/1	0.70	0.10	100,100,100,100	0
56	MG	1G	1722	1/1	0.70	0.07	102,102,102,102	0
56	MG	1G	1641	1/1	0.70	0.72	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3137	1/1	0.70	0.35	70,70,70,70	0
56	MG	13	1684	1/1	0.70	0.36	71,71,71,71	0
56	MG	14	3400	1/1	0.70	0.11	90,90,90,90	0
56	MG	1H	3220	1/1	0.71	0.52	71,71,71,71	0
56	MG	14	3191	1/1	0.71	0.20	66,66,66,66	0
56	MG	1G	1708	1/1	0.71	0.07	84,84,84,84	0
56	MG	14	3171	1/1	0.71	0.22	84,84,84,84	0
56	MG	1H	3262	1/1	0.71	0.31	86,86,86,86	0
56	MG	1H	3254	1/1	0.71	0.33	69,69,69,69	0
56	MG	1G	1637	1/1	0.71	0.41	89,89,89,89	0
56	MG	1H	3143	1/1	0.72	0.36	84,84,84,84	0
56	MG	14	3193	1/1	0.72	0.15	74,74,74,74	0
56	MG	1H	3096	1/1	0.72	0.42	77,77,77,77	0
56	MG	14	3161	1/1	0.72	1.21	86,86,86,86	0
56	MG	1H	3027	1/1	0.72	0.17	68,68,68,68	0
56	MG	14	3028	1/1	0.72	0.72	83,83,83,83	0
56	MG	1H	3468	1/1	0.72	0.11	68,68,68,68	0
56	MG	1H	3231	1/1	0.72	0.14	106,106,106,106	0
56	MG	13	1672	1/1	0.72	0.35	79,79,79,79	0
56	MG	1H	3015	1/1	0.72	0.95	82,82,82,82	0
56	MG	14	3270	1/1	0.73	0.12	80,80,80,80	0
56	MG	1G	1695	1/1	0.73	0.14	99,99,99,99	0
56	MG	1H	3188	1/1	0.73	0.23	69,69,69,69	0
56	MG	16	201	1/1	0.73	0.17	84,84,84,84	0
56	MG	14	3181	1/1	0.73	0.42	76,76,76,76	0
56	MG	14	3189	1/1	0.73	0.62	60,60,60,60	0
56	MG	1G	1668	1/1	0.73	0.69	96,96,96,96	0
56	MG	14	3216	1/1	0.73	0.42	79,79,79,79	0
56	MG	1H	3279	1/1	0.74	0.28	67,67,67,67	0
56	MG	1H	3159	1/1	0.74	0.28	69,69,69,69	0
56	MG	1H	3455	1/1	0.74	0.19	76,76,76,76	0
56	MG	14	3140	1/1	0.74	0.30	78,78,78,78	0
56	MG	14	3244	1/1	0.74	0.31	71,71,71,71	0
56	MG	13	1628	1/1	0.74	0.22	89,89,89,89	0
56	MG	13	1734	1/1	0.74	0.13	105,105,105,105	0
56	MG	14	3169	1/1	0.75	0.65	81,81,81,81	0
56	MG	1H	3168	1/1	0.75	0.54	75,75,75,75	0
56	MG	1H	3234	1/1	0.75	0.57	90,90,90,90	0
56	MG	13	1663	1/1	0.75	0.22	90,90,90,90	0
56	MG	13	1645	1/1	0.75	0.15	84,84,84,84	0
56	MG	14	3222	1/1	0.75	0.35	88,88,88,88	0
56	MG	1G	1644	1/1	0.75	0.15	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	13	1616	1/1	0.75	0.49	77,77,77,77	0
56	MG	14	3293	1/1	0.75	0.12	94,94,94,94	0
56	MG	1G	1652	1/1	0.75	0.31	76,76,76,76	0
56	MG	1G	1655	1/1	0.75	0.27	106,106,106,106	0
56	MG	1H	3568	1/1	0.75	0.17	94,94,94,94	0
56	MG	14	3110	1/1	0.76	0.35	51,51,51,51	0
56	MG	1H	3448	1/1	0.76	0.11	74,74,74,74	0
56	MG	1G	1667	1/1	0.76	0.24	97,97,97,97	0
56	MG	1H	3451	1/1	0.76	0.10	78,78,78,78	0
56	MG	14	3131	1/1	0.76	0.53	62,62,62,62	0
56	MG	1H	3375	1/1	0.76	0.16	85,85,85,85	0
56	MG	1H	3016	1/1	0.76	0.28	72,72,72,72	0
56	MG	14	3149	1/1	0.76	0.78	89,89,89,89	0
56	MG	1H	3418	1/1	0.76	0.15	68,68,68,68	0
56	MG	1H	3201	1/1	0.76	0.61	82,82,82,82	0
56	MG	14	3462	1/1	0.76	0.17	99,99,99,99	0
56	MG	1H	3068	1/1	0.76	0.31	50,50,50,50	0
56	MG	1H	3440	1/1	0.76	0.13	72,72,72,72	0
56	MG	1G	1725	1/1	0.76	0.07	95,95,95,95	0
56	MG	1H	3191	1/1	0.76	0.24	59,59,59,59	0
56	MG	1H	3546	1/1	0.76	0.12	93,93,93,93	0
56	MG	1H	3214	1/1	0.77	0.57	83,83,83,83	0
56	MG	1H	3217	1/1	0.77	0.15	61,61,61,61	0
56	MG	14	3112	1/1	0.77	0.28	69,69,69,69	0
56	MG	13	1673	1/1	0.77	0.17	93,93,93,93	0
56	MG	1G	1694	1/1	0.77	0.12	103,103,103,103	0
56	MG	1H	3164	1/1	0.77	0.12	53,53,53,53	0
56	MG	1H	3225	1/1	0.77	0.24	60,60,60,60	0
56	MG	1H	3555	1/1	0.77	0.22	70,70,70,70	0
56	MG	13	1667	1/1	0.77	0.15	105,105,105,105	0
56	MG	13	1643	1/1	0.77	0.57	69,69,69,69	0
56	MG	14	3209	1/1	0.77	0.97	90,90,90,90	0
56	MG	13	1719	1/1	0.77	0.12	89,89,89,89	0
56	MG	1H	3409	1/1	0.77	0.19	65,65,65,65	0
56	MG	1H	3240	1/1	0.77	0.18	75,75,75,75	0
56	MG	14	3234	1/1	0.77	0.57	71,71,71,71	0
56	MG	1H	3245	1/1	0.77	0.28	58,58,58,58	0
56	MG	14	3109	1/1	0.77	0.25	86,86,86,86	0
56	MG	1H	3566	1/1	0.78	0.05	105,105,105,105	0
56	MG	14	3405	1/1	0.78	0.07	106,106,106,106	0
56	MG	13	1638	1/1	0.78	0.26	71,71,71,71	0
56	MG	1H	3209	1/1	0.78	0.21	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3405	1/1	0.78	0.12	91,91,91,91	0
56	MG	13	1661	1/1	0.78	0.51	73,73,73,73	0
56	MG	1H	3488	1/1	0.78	0.09	85,85,85,85	0
56	MG	14	3457	1/1	0.78	0.10	92,92,92,92	0
56	MG	1H	3556	1/1	0.78	0.13	101,101,101,101	0
56	MG	14	3115	1/1	0.78	0.35	64,64,64,64	0
56	MG	13	1743	1/1	0.78	0.07	102,102,102,102	0
56	MG	1J	202	1/1	0.78	0.08	91,91,91,91	0
56	MG	14	3173	1/1	0.78	0.25	93,93,93,93	0
56	MG	14	3305	1/1	0.78	0.16	96,96,96,96	0
56	MG	1J	210	1/1	0.78	0.12	91,91,91,91	0
56	MG	13	1653	1/1	0.78	0.21	80,80,80,80	0
56	MG	1H	3133	1/1	0.79	0.35	64,64,64,64	0
56	MG	13	1687	1/1	0.79	0.19	82,82,82,82	0
56	MG	13	1677	1/1	0.79	0.30	77,77,77,77	0
56	MG	1G	1696	1/1	0.79	0.10	107,107,107,107	0
56	MG	14	3134	1/1	0.79	0.14	88,88,88,88	0
56	MG	1H	3081	1/1	0.79	0.44	76,76,76,76	0
56	MG	1H	3145	1/1	0.79	0.29	82,82,82,82	0
56	MG	14	3437	1/1	0.79	0.06	115,115,115,115	0
56	MG	1H	3153	1/1	0.79	0.28	88,88,88,88	0
56	MG	1H	3122	1/1	0.79	0.31	58,58,58,58	0
56	MG	1H	3198	1/1	0.79	0.24	65,65,65,65	0
56	MG	1H	3230	1/1	0.79	0.42	89,89,89,89	0
56	MG	14	3221	1/1	0.79	0.35	86,86,86,86	0
56	MG	1H	3456	1/1	0.79	0.21	102,102,102,102	0
56	MG	14	3170	1/1	0.79	0.37	63,63,63,63	0
56	MG	1H	3467	1/1	0.79	0.05	95,95,95,95	0
56	MG	1H	3158	1/1	0.79	0.37	72,72,72,72	0
56	MG	1H	3205	1/1	0.79	0.33	73,73,73,73	0
56	MG	1H	3208	1/1	0.79	0.17	141,141,141,141	0
56	MG	35	201	1/1	0.79	0.13	74,74,74,74	0
56	MG	35	202	1/1	0.79	0.30	78,78,78,78	0
56	MG	1H	3487	1/1	0.79	0.08	71,71,71,71	0
56	MG	1G	1632	1/1	0.80	0.41	92,92,92,92	0
56	MG	14	3321	1/1	0.80	0.04	88,88,88,88	0
56	MG	14	3378	1/1	0.80	0.05	96,96,96,96	0
56	MG	14	3379	1/1	0.80	0.08	94,94,94,94	0
56	MG	14	3138	1/1	0.80	0.21	71,71,71,71	0
56	MG	1H	3267	1/1	0.80	0.88	90,90,90,90	0
56	MG	1H	3047	1/1	0.80	0.44	76,76,76,76	0
56	MG	14	3411	1/1	0.80	0.11	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3148	1/1	0.80	0.34	78,78,78,78	0
56	MG	14	3194	1/1	0.80	0.47	79,79,79,79	0
56	MG	13	1675	1/1	0.80	0.14	65,65,65,65	0
56	MG	14	3151	1/1	0.80	0.40	107,107,107,107	0
56	MG	14	3152	1/1	0.80	0.28	85,85,85,85	0
56	MG	1H	3071	1/1	0.80	0.17	57,57,57,57	0
56	MG	1H	3519	1/1	0.80	0.17	78,78,78,78	0
56	MG	16	202	1/1	0.80	0.12	66,66,66,66	0
56	MG	13	1631	1/1	0.80	0.26	89,89,89,89	0
56	MG	13	1686	1/1	0.80	0.08	98,98,98,98	0
56	MG	14	3238	1/1	0.80	0.51	83,83,83,83	0
56	MG	1H	3253	1/1	0.80	0.38	62,62,62,62	0
56	MG	1H	3183	1/1	0.80	0.32	74,74,74,74	0
56	MG	1G	1608	1/1	0.80	0.35	96,96,96,96	0
56	MG	1H	3136	1/1	0.80	1.10	76,76,76,76	0
56	MG	1H	3471	1/1	0.80	0.15	91,91,91,91	0
56	MG	1H	3190	1/1	0.80	0.11	60,60,60,60	0
56	MG	14	3150	1/1	0.81	0.44	84,84,84,84	0
56	MG	1H	3503	1/1	0.81	0.08	75,75,75,75	0
56	MG	14	3396	1/1	0.81	0.09	102,102,102,102	0
56	MG	13	1735	1/1	0.81	0.05	109,109,109,109	0
56	MG	14	3153	1/1	0.81	1.04	74,74,74,74	0
56	MG	14	3203	1/1	0.81	0.10	69,69,69,69	0
56	MG	14	3156	1/1	0.81	0.74	86,86,86,86	0
56	MG	1H	3100	1/1	0.81	0.60	59,59,59,59	0
56	MG	13	1748	1/1	0.81	0.21	102,102,102,102	0
56	MG	1H	3536	1/1	0.81	0.13	98,98,98,98	0
56	MG	1H	3539	1/1	0.81	0.05	90,90,90,90	0
56	MG	13	1637	1/1	0.81	0.10	73,73,73,73	0
56	MG	1H	3249	1/1	0.81	0.44	67,67,67,67	0
56	MG	14	3459	1/1	0.81	0.07	97,97,97,97	0
56	MG	1G	1684	1/1	0.81	0.06	98,98,98,98	0
56	MG	14	3263	1/1	0.81	0.18	64,64,64,64	0
56	MG	1H	3090	1/1	0.81	0.28	50,50,50,50	0
56	MG	1H	3551	1/1	0.81	0.15	105,105,105,105	0
56	MG	1H	3252	1/1	0.81	1.37	75,75,75,75	0
56	MG	1G	1626	1/1	0.81	0.23	78,78,78,78	0
56	MG	1J	209	1/1	0.81	0.18	93,93,93,93	0
56	MG	1H	3094	1/1	0.81	0.31	61,61,61,61	0
56	MG	1H	3495	1/1	0.81	0.15	100,100,100,100	0
56	MG	13	1659	1/1	0.81	0.31	57,57,57,57	0
56	MG	1H	3563	1/1	0.81	0.21	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3341	1/1	0.82	0.12	76,76,76,76	0
56	MG	1H	3157	1/1	0.82	0.19	96,96,96,96	0
56	MG	1H	3502	1/1	0.82	0.05	87,87,87,87	0
56	MG	14	3384	1/1	0.82	0.10	79,79,79,79	0
56	MG	14	3195	1/1	0.82	0.36	71,71,71,71	0
56	MG	14	3198	1/1	0.82	0.37	84,84,84,84	0
56	MG	14	3399	1/1	0.82	0.05	82,82,82,82	0
56	MG	1H	3241	1/1	0.82	0.58	81,81,81,81	0
56	MG	1H	3216	1/1	0.82	0.41	71,71,71,71	0
56	MG	1H	3569	1/1	0.82	0.07	85,85,85,85	0
56	MG	14	3087	1/1	0.82	0.35	73,73,73,73	0
56	MG	1H	3452	1/1	0.82	0.12	72,72,72,72	0
56	MG	1H	3001	1/1	0.82	0.22	61,61,61,61	0
56	MG	13	1682	1/1	0.82	0.13	91,91,91,91	0
56	MG	16	210	1/1	0.82	0.10	89,89,89,89	0
56	MG	21	301	1/1	0.82	0.28	62,62,62,62	0
56	MG	1H	3013	1/1	0.82	0.36	69,69,69,69	0
56	MG	13	1602	1/1	0.82	0.50	61,61,61,61	0
56	MG	1G	1687	1/1	0.82	0.13	75,75,75,75	0
56	MG	1H	3144	1/1	0.82	0.37	86,86,86,86	0
56	MG	14	3282	1/1	0.82	0.07	92,92,92,92	0
56	MG	14	3467	1/1	0.82	0.15	71,71,71,71	0
56	MG	13	1732	1/1	0.82	0.06	113,113,113,113	0
56	MG	14	3186	1/1	0.82	0.36	80,80,80,80	0
56	MG	1H	3428	1/1	0.82	0.09	64,64,64,64	0
56	MG	1H	3082	1/1	0.82	0.11	55,55,55,55	0
56	MG	13	1712	1/1	0.82	0.17	96,96,96,96	0
56	MG	14	3306	1/1	0.82	0.15	76,76,76,76	0
56	MG	14	3311	1/1	0.82	0.19	73,73,73,73	0
56	MG	1H	3444	1/1	0.82	0.27	82,82,82,82	0
56	MG	16	204	1/1	0.83	0.08	57,57,57,57	0
56	MG	16	205	1/1	0.83	0.18	83,83,83,83	0
56	MG	1H	3432	1/1	0.83	0.18	44,44,44,44	0
56	MG	1H	3363	1/1	0.83	0.29	78,78,78,78	0
56	MG	14	3446	1/1	0.83	0.10	98,98,98,98	0
56	MG	1H	3560	1/1	0.83	0.13	85,85,85,85	0
56	MG	13	1742	1/1	0.83	0.09	105,105,105,105	0
56	MG	1H	3221	1/1	0.83	0.18	65,65,65,65	0
56	MG	13	1640	1/1	0.83	0.34	99,99,99,99	0
56	MG	14	3461	1/1	0.83	0.10	80,80,80,80	0
56	MG	13	1658	1/1	0.83	0.06	116,116,116,116	0
56	MG	14	3217	1/1	0.83	0.65	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3360	1/1	0.83	0.10	88,88,88,88	0
56	MG	14	3034	1/1	0.83	0.56	72,72,72,72	0
56	MG	14	3053	1/1	0.83	0.40	53,53,53,53	0
56	MG	14	3227	1/1	0.83	0.27	70,70,70,70	0
56	MG	1H	3247	1/1	0.83	0.48	62,62,62,62	0
56	MG	1G	1619	1/1	0.83	0.21	103,103,103,103	0
56	MG	14	3242	1/1	0.83	0.16	83,83,83,83	0
56	MG	1H	3132	1/1	0.83	0.26	58,58,58,58	0
56	MG	13	1629	1/1	0.83	0.09	85,85,85,85	0
56	MG	1H	3236	1/1	0.83	0.25	78,78,78,78	0
56	MG	E5	103	1/1	0.83	0.20	80,80,80,80	0
56	MG	88	201	1/1	0.84	0.23	73,73,73,73	0
56	MG	1H	3130	1/1	0.84	0.12	54,54,54,54	0
56	MG	1H	3244	1/1	0.84	0.14	67,67,67,67	0
56	MG	1G	1677	1/1	0.84	0.11	93,93,93,93	0
56	MG	1H	3146	1/1	0.84	0.85	90,90,90,90	0
56	MG	14	3410	1/1	0.84	0.07	83,83,83,83	0
56	MG	14	3231	1/1	0.84	0.28	69,69,69,69	0
56	MG	14	3175	1/1	0.84	0.11	74,74,74,74	0
56	MG	1H	3273	1/1	0.84	0.63	76,76,76,76	0
56	MG	14	3241	1/1	0.84	0.53	77,77,77,77	0
56	MG	1H	3098	1/1	0.84	0.17	58,58,58,58	0
56	MG	14	3124	1/1	0.84	0.18	62,62,62,62	0
56	MG	1H	3102	1/1	0.84	0.33	63,63,63,63	0
56	MG	1H	3441	1/1	0.84	0.11	76,76,76,76	0
56	MG	14	3456	1/1	0.84	0.08	99,99,99,99	0
56	MG	1K	101	1/1	0.84	0.06	119,119,119,119	0
56	MG	14	3458	1/1	0.84	0.11	91,91,91,91	0
56	MG	1H	3196	1/1	0.84	0.43	62,62,62,62	0
56	MG	1H	3550	1/1	0.84	0.12	125,125,125,125	0
56	MG	1H	3172	1/1	0.84	0.76	70,70,70,70	0
56	MG	16	206	1/1	0.84	0.10	81,81,81,81	0
56	MG	14	3302	1/1	0.84	0.12	96,96,96,96	0
56	MG	1H	3497	1/1	0.84	0.10	75,75,75,75	0
56	MG	16	213	1/1	0.84	0.07	87,87,87,87	0
56	MG	1H	3176	1/1	0.84	0.65	51,51,51,51	0
56	MG	14	3313	1/1	0.84	0.11	53,53,53,53	0
56	MG	14	3033	1/1	0.84	0.47	63,63,63,63	0
56	MG	1H	3203	1/1	0.84	0.27	68,68,68,68	0
56	MG	14	3044	1/1	0.84	0.54	78,78,78,78	0
56	MG	14	3205	1/1	0.84	0.36	87,87,87,87	0
56	MG	1G	1657	1/1	0.84	0.51	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3064	1/1	0.84	0.28	62,62,62,62	0
56	MG	14	3084	1/1	0.85	0.39	77,77,77,77	0
56	MG	14	3395	1/1	0.85	0.09	69,69,69,69	0
56	MG	14	3162	1/1	0.85	0.18	50,50,50,50	0
56	MG	14	3164	1/1	0.85	0.72	64,64,64,64	0
56	MG	1H	3088	1/1	0.85	0.41	74,74,74,74	0
56	MG	1H	3054	1/1	0.85	0.83	70,70,70,70	0
56	MG	1H	3067	1/1	0.85	0.57	75,75,75,75	0
56	MG	1G	1602	1/1	0.85	0.13	87,87,87,87	0
56	MG	1H	3258	1/1	0.85	0.57	97,97,97,97	0
56	MG	1G	1693	1/1	0.85	0.05	114,114,114,114	0
56	MG	14	3116	1/1	0.85	0.38	89,89,89,89	0
56	MG	1H	3509	1/1	0.85	0.20	46,46,46,46	0
56	MG	1H	3260	1/1	0.85	0.41	74,74,74,74	0
56	MG	1H	3523	1/1	0.85	0.10	76,76,76,76	0
56	MG	13	1718	1/1	0.85	0.11	54,54,54,54	0
56	MG	14	3295	1/1	0.85	0.12	73,73,73,73	0
56	MG	1H	3151	1/1	0.85	0.20	52,52,52,52	0
56	MG	1H	3470	1/1	0.85	0.15	82,82,82,82	0
56	MG	1H	3192	1/1	0.85	0.50	61,61,61,61	0
56	MG	14	3460	1/1	0.85	0.11	93,93,93,93	0
56	MG	1H	3540	1/1	0.85	0.15	78,78,78,78	0
56	MG	14	3143	1/1	0.85	0.27	86,86,86,86	0
56	MG	14	3463	1/1	0.85	0.42	97,97,97,97	0
56	MG	1H	3227	1/1	0.85	0.23	79,79,79,79	0
56	MG	1H	3141	1/1	0.85	0.25	53,53,53,53	0
56	MG	14	3008	1/1	0.85	0.40	84,84,84,84	0
56	MG	1H	3483	1/1	0.85	0.10	76,76,76,76	0
56	MG	14	3335	1/1	0.85	0.15	78,78,78,78	0
56	MG	1G	1654	1/1	0.85	0.37	99,99,99,99	0
56	MG	14	3349	1/1	0.85	0.09	65,65,65,65	0
56	MG	14	3357	1/1	0.85	0.13	79,79,79,79	0
56	MG	1H	3195	1/1	0.85	0.29	69,69,69,69	0
56	MG	1H	3348	1/1	0.85	0.15	78,78,78,78	0
56	MG	5I	101	1/1	0.85	0.11	77,77,77,77	0
56	MG	41	202	1/1	0.85	0.19	75,75,75,75	0
56	MG	1H	3218	1/1	0.86	0.20	65,65,65,65	0
56	MG	1H	3009	1/1	0.86	0.23	74,74,74,74	0
56	MG	13	1642	1/1	0.86	0.29	78,78,78,78	0
56	MG	1G	1672	1/1	0.86	0.11	109,109,109,109	0
56	MG	98	201	1/1	0.86	0.49	67,67,67,67	0
56	MG	1H	3077	1/1	0.86	0.21	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3274	1/1	0.86	0.45	48,48,48,48	0
56	MG	1G	1688	1/1	0.86	0.12	81,81,81,81	0
56	MG	1G	1691	1/1	0.86	0.11	110,110,110,110	0
56	MG	14	3130	1/1	0.86	0.13	75,75,75,75	0
56	MG	1H	3559	1/1	0.86	0.07	73,73,73,73	0
56	MG	1H	3079	1/1	0.86	0.18	88,88,88,88	0
56	MG	1H	3286	1/1	0.86	0.11	119,119,119,119	0
56	MG	14	3139	1/1	0.86	0.27	75,75,75,75	0
56	MG	1H	3311	1/1	0.86	0.14	56,56,56,56	0
56	MG	14	3212	1/1	0.86	1.03	82,82,82,82	0
56	MG	1H	3325	1/1	0.86	0.08	56,56,56,56	0
56	MG	1G	1622	1/1	0.86	0.46	73,73,73,73	0
56	MG	14	3146	1/1	0.86	0.36	72,72,72,72	0
56	MG	14	3421	1/1	0.86	0.08	84,84,84,84	0
56	MG	14	3430	1/1	0.86	0.09	86,86,86,86	0
56	MG	1G	1711	1/1	0.86	0.06	102,102,102,102	0
56	MG	1G	1623	1/1	0.86	0.16	77,77,77,77	0
56	MG	1H	3511	1/1	0.86	0.08	78,78,78,78	0
56	MG	1G	1629	1/1	0.86	0.59	69,69,69,69	0
56	MG	1H	3332	1/1	0.86	0.18	50,50,50,50	0
56	MG	14	3449	1/1	0.86	0.07	88,88,88,88	0
56	MG	14	3235	1/1	0.86	0.57	83,83,83,83	0
56	MG	14	3455	1/1	0.86	0.39	87,87,87,87	0
56	MG	13	1699	1/1	0.86	0.06	75,75,75,75	0
56	MG	14	3240	1/1	0.86	0.33	83,83,83,83	0
56	MG	13	1614	1/1	0.86	0.57	73,73,73,73	0
56	MG	14	3019	1/1	0.86	0.24	48,48,48,48	0
56	MG	14	3024	1/1	0.86	0.16	65,65,65,65	0
56	MG	1H	3353	1/1	0.86	0.11	68,68,68,68	0
56	MG	1H	3084	1/1	0.86	0.27	58,58,58,58	0
56	MG	13	1630	1/1	0.86	0.40	81,81,81,81	0
56	MG	14	3288	1/1	0.86	0.06	76,76,76,76	0
56	MG	14	3291	1/1	0.86	0.16	82,82,82,82	0
56	MG	14	3166	1/1	0.86	0.30	85,85,85,85	0
56	MG	1H	3256	1/1	0.86	0.21	100,100,100,100	0
56	MG	1H	3104	1/1	0.86	0.16	65,65,65,65	0
56	MG	16	211	1/1	0.86	0.25	92,92,92,92	0
56	MG	14	3068	1/1	0.86	0.53	59,59,59,59	0
56	MG	1H	3167	1/1	0.86	0.19	45,45,45,45	0
56	MG	1H	3106	1/1	0.86	0.25	55,55,55,55	0
56	MG	14	3093	1/1	0.86	0.15	71,71,71,71	0
56	MG	14	3310	1/1	0.86	0.11	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3104	1/1	0.86	0.50	74,74,74,74	0
56	MG	13	1618	1/1	0.87	0.23	45,45,45,45	0
56	MG	13	1724	1/1	0.87	0.10	94,94,94,94	0
56	MG	1H	3541	1/1	0.87	0.07	85,85,85,85	0
56	MG	1H	3543	1/1	0.87	0.10	81,81,81,81	0
56	MG	1H	3182	1/1	0.87	0.21	56,56,56,56	0
56	MG	14	3076	1/1	0.87	0.82	68,68,68,68	0
56	MG	14	3290	1/1	0.87	0.13	67,67,67,67	0
56	MG	14	3078	1/1	0.87	0.23	80,80,80,80	0
56	MG	13	1668	1/1	0.87	0.43	105,105,105,105	0
56	MG	1H	3046	1/1	0.87	0.20	59,59,59,59	0
56	MG	14	3438	1/1	0.87	0.04	115,115,115,115	0
56	MG	14	3296	1/1	0.87	0.11	70,70,70,70	0
56	MG	14	3442	1/1	0.87	0.08	96,96,96,96	0
56	MG	13	1657	1/1	0.87	0.46	89,89,89,89	0
56	MG	13	1706	1/1	0.87	0.09	92,92,92,92	0
56	MG	1H	3377	1/1	0.87	0.14	49,49,49,49	0
56	MG	1H	3161	1/1	0.87	0.17	82,82,82,82	0
56	MG	13	1666	1/1	0.87	0.49	79,79,79,79	0
56	MG	14	3159	1/1	0.87	0.24	70,70,70,70	0
56	MG	1H	3165	1/1	0.87	0.17	63,63,63,63	0
56	MG	88	202	1/1	0.87	0.29	67,67,67,67	0
56	MG	13	1716	1/1	0.87	0.04	108,108,108,108	0
56	MG	1H	3522	1/1	0.87	0.07	98,98,98,98	0
56	MG	1H	3469	1/1	0.87	0.08	79,79,79,79	0
56	MG	14	3125	1/1	0.87	0.29	76,76,76,76	0
56	MG	14	3224	1/1	0.87	0.23	82,82,82,82	0
56	MG	13	1674	1/1	0.87	0.67	67,67,67,67	0
56	MG	14	3129	1/1	0.87	0.13	62,62,62,62	0
56	MG	14	3466	1/1	0.87	0.16	92,92,92,92	0
56	MG	14	3364	1/1	0.87	0.09	83,83,83,83	0
56	MG	14	3368	1/1	0.87	0.08	75,75,75,75	0
56	MG	14	3375	1/1	0.87	0.09	87,87,87,87	0
56	MG	1G	1665	1/1	0.87	0.09	104,104,104,104	0
56	MG	1J	208	1/1	0.87	0.22	90,90,90,90	0
56	MG	1H	3199	1/1	0.87	0.23	74,74,74,74	0
56	MG	14	3383	1/1	0.87	0.06	102,102,102,102	0
56	MG	39	302	1/1	0.87	0.25	73,73,73,73	0
56	MG	1G	1611	1/1	0.87	0.16	84,84,84,84	0
56	MG	14	3239	1/1	0.87	0.97	82,82,82,82	0
56	MG	14	3178	1/1	0.87	0.12	114,114,114,114	0
56	MG	E5	102	1/1	0.87	0.59	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3091	1/1	0.87	0.16	65,65,65,65	0
56	MG	1H	3018	1/1	0.88	0.42	51,51,51,51	0
56	MG	1H	3179	1/1	0.88	0.47	47,47,47,47	0
56	MG	1H	3093	1/1	0.88	0.21	60,60,60,60	0
56	MG	1G	1697	1/1	0.88	0.09	94,94,94,94	0
56	MG	1H	3426	1/1	0.88	0.17	77,77,77,77	0
56	MG	14	3254	1/1	0.88	0.10	92,92,92,92	0
56	MG	1H	3288	1/1	0.88	0.14	38,38,38,38	0
56	MG	13	1665	1/1	0.88	0.53	76,76,76,76	0
56	MG	1G	1634	1/1	0.88	0.25	91,91,91,91	0
56	MG	1H	3037	1/1	0.88	0.59	63,63,63,63	0
56	MG	13	1711	1/1	0.88	0.12	101,101,101,101	0
56	MG	16	208	1/1	0.88	0.22	80,80,80,80	0
56	MG	14	3439	1/1	0.88	0.10	86,86,86,86	0
56	MG	13	1720	1/1	0.88	0.07	66,66,66,66	0
56	MG	14	3133	1/1	0.88	0.16	72,72,72,72	0
56	MG	14	3443	1/1	0.88	0.08	91,91,91,91	0
56	MG	2L	103	1/1	0.88	0.51	70,70,70,70	0
56	MG	14	3006	1/1	0.88	0.25	67,67,67,67	0
56	MG	1G	1647	1/1	0.88	0.10	82,82,82,82	0
56	MG	14	3300	1/1	0.88	0.09	76,76,76,76	0
56	MG	1H	3050	1/1	0.88	0.31	49,49,49,49	0
56	MG	13	1737	1/1	0.88	0.06	83,83,83,83	0
56	MG	1H	3548	1/1	0.88	0.11	98,98,98,98	0
56	MG	14	3145	1/1	0.88	0.18	75,75,75,75	0
56	MG	1H	3059	1/1	0.88	0.71	73,73,73,73	0
56	MG	14	3201	1/1	0.88	0.11	84,84,84,84	0
56	MG	1H	3498	1/1	0.88	0.17	85,85,85,85	0
56	MG	1H	3500	1/1	0.88	0.09	103,103,103,103	0
56	MG	1H	3554	1/1	0.88	0.25	100,100,100,100	0
56	MG	13	1617	1/1	0.88	0.23	53,53,53,53	0
56	MG	14	3342	1/1	0.88	0.11	75,75,75,75	0
56	MG	13	1623	1/1	0.88	0.31	62,62,62,62	0
56	MG	14	3353	1/1	0.88	0.08	91,91,91,91	0
56	MG	14	3075	1/1	0.88	0.16	78,78,78,78	0
56	MG	14	3154	1/1	0.88	0.30	60,60,60,60	0
56	MG	14	3219	1/1	0.88	0.36	86,86,86,86	0
56	MG	1H	3454	1/1	0.88	0.23	67,67,67,67	0
56	MG	14	3373	1/1	0.88	0.17	58,58,58,58	0
56	MG	1H	3504	1/1	0.88	0.09	86,86,86,86	0
56	MG	1H	3272	1/1	0.88	0.74	67,67,67,67	0
56	MG	1H	3123	1/1	0.88	0.29	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3518	1/1	0.88	0.11	76,76,76,76	0
56	MG	1H	3461	1/1	0.88	0.10	90,90,90,90	0
56	MG	14	3105	1/1	0.88	0.08	72,72,72,72	0
56	MG	1H	3567	1/1	0.88	0.15	42,42,42,42	0
56	MG	14	3083	1/1	0.89	0.15	74,74,74,74	0
56	MG	1H	3407	1/1	0.89	0.21	89,89,89,89	0
56	MG	14	3187	1/1	0.89	0.82	81,81,81,81	0
56	MG	14	3350	1/1	0.89	0.14	44,44,44,44	0
56	MG	1H	3496	1/1	0.89	0.08	76,76,76,76	0
56	MG	14	3356	1/1	0.89	0.11	60,60,60,60	0
56	MG	14	3089	1/1	0.89	0.20	53,53,53,53	0
56	MG	1H	3048	1/1	0.89	0.22	45,45,45,45	0
56	MG	14	3363	1/1	0.89	0.13	54,54,54,54	0
56	MG	14	3098	1/1	0.89	0.23	68,68,68,68	0
56	MG	13	1754	1/1	0.89	0.12	80,80,80,80	0
56	MG	1H	3223	1/1	0.89	0.48	76,76,76,76	0
56	MG	1H	3419	1/1	0.89	0.14	78,78,78,78	0
56	MG	1H	3224	1/1	0.89	0.21	74,74,74,74	0
56	MG	1H	3263	1/1	0.89	0.63	91,91,91,91	0
56	MG	1H	3193	1/1	0.89	0.16	78,78,78,78	0
56	MG	1H	3011	1/1	0.89	0.20	119,119,119,119	0
56	MG	13	1625	1/1	0.89	0.21	78,78,78,78	0
56	MG	1G	1681	1/1	0.89	0.07	99,99,99,99	0
56	MG	1G	1682	1/1	0.89	0.16	117,117,117,117	0
56	MG	1H	3437	1/1	0.89	0.15	62,62,62,62	0
56	MG	1H	3065	1/1	0.89	0.10	61,61,61,61	0
56	MG	14	3401	1/1	0.89	0.07	75,75,75,75	0
56	MG	1H	3134	1/1	0.89	0.28	74,74,74,74	0
56	MG	13	1613	1/1	0.89	0.24	86,86,86,86	0
56	MG	1H	3281	1/1	0.89	0.16	82,82,82,82	0
56	MG	1H	3446	1/1	0.89	0.13	64,64,64,64	0
56	MG	1H	3534	1/1	0.89	0.07	85,85,85,85	0
56	MG	14	3425	1/1	0.89	0.15	96,96,96,96	0
56	MG	14	3136	1/1	0.89	0.35	83,83,83,83	0
56	MG	1H	3166	1/1	0.89	0.18	52,52,52,52	0
56	MG	14	3229	1/1	0.89	0.26	66,66,66,66	0
56	MG	13	1678	1/1	0.89	0.40	83,83,83,83	0
56	MG	1H	3310	1/1	0.89	0.21	43,43,43,43	0
56	MG	1G	1703	1/1	0.89	0.10	85,85,85,85	0
56	MG	14	3441	1/1	0.89	0.05	95,95,95,95	0
56	MG	1H	3139	1/1	0.89	0.14	52,52,52,52	0
56	MG	1G	1710	1/1	0.89	0.05	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3317	1/1	0.89	0.15	63,63,63,63	0
56	MG	1H	3319	1/1	0.89	0.13	51,51,51,51	0
56	MG	1G	1715	1/1	0.89	0.05	116,116,116,116	0
56	MG	1H	3459	1/1	0.89	0.07	69,69,69,69	0
56	MG	13	1691	1/1	0.89	0.13	76,76,76,76	0
56	MG	1G	1618	1/1	0.89	0.19	88,88,88,88	0
56	MG	42	201	1/1	0.89	0.27	111,111,111,111	0
56	MG	1H	3171	1/1	0.89	0.58	67,67,67,67	0
56	MG	14	3284	1/1	0.89	0.28	87,87,87,87	0
56	MG	13	1605	1/1	0.89	0.24	79,79,79,79	0
56	MG	13	1722	1/1	0.89	0.10	78,78,78,78	0
56	MG	1H	3078	1/1	0.89	0.26	70,70,70,70	0
56	MG	1G	1627	1/1	0.89	0.05	139,139,139,139	0
56	MG	14	3160	1/1	0.89	0.51	78,78,78,78	0
56	MG	13	1701	1/1	0.89	0.10	100,100,100,100	0
56	MG	1G	1630	1/1	0.89	0.16	97,97,97,97	0
56	MG	1H	3472	1/1	0.89	0.06	82,82,82,82	0
56	MG	1H	3366	1/1	0.89	0.10	67,67,67,67	0
56	MG	13	1681	1/1	0.89	0.20	83,83,83,83	0
56	MG	14	3052	1/1	0.89	1.03	71,71,71,71	0
56	MG	1H	3105	1/1	0.89	0.50	72,72,72,72	0
56	MG	1H	3386	1/1	0.89	0.08	88,88,88,88	0
56	MG	13	1633	1/1	0.89	0.12	80,80,80,80	0
56	MG	1H	3565	1/1	0.89	0.07	60,60,60,60	0
56	MG	1H	3491	1/1	0.89	0.18	73,73,73,73	0
56	MG	14	3319	1/1	0.89	0.23	84,84,84,84	0
56	MG	1G	1650	1/1	0.89	0.13	89,89,89,89	0
56	MG	14	3079	1/1	0.89	0.32	75,75,75,75	0
56	MG	14	3337	1/1	0.89	0.17	70,70,70,70	0
56	MG	1H	3525	1/1	0.90	0.14	71,71,71,71	0
56	MG	14	3385	1/1	0.90	0.15	80,80,80,80	0
56	MG	14	3388	1/1	0.90	0.05	90,90,90,90	0
56	MG	1H	3526	1/1	0.90	0.12	73,73,73,73	0
56	MG	14	3102	1/1	0.90	0.25	60,60,60,60	0
56	MG	1G	1701	1/1	0.90	0.10	106,106,106,106	0
56	MG	14	3252	1/1	0.90	0.17	52,52,52,52	0
56	MG	1H	3527	1/1	0.90	0.04	86,86,86,86	0
56	MG	14	3107	1/1	0.90	0.31	61,61,61,61	0
56	MG	1G	1707	1/1	0.90	0.06	114,114,114,114	0
56	MG	13	1733	1/1	0.90	0.19	102,102,102,102	0
56	MG	1H	3163	1/1	0.90	0.64	83,83,83,83	0
56	MG	14	3413	1/1	0.90	0.14	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3321	1/1	0.90	0.11	59,59,59,59	0
56	MG	14	3289	1/1	0.90	0.16	64,64,64,64	0
56	MG	1H	3538	1/1	0.90	0.18	78,78,78,78	0
56	MG	1G	1714	1/1	0.90	0.06	101,101,101,101	0
56	MG	14	3431	1/1	0.90	0.10	84,84,84,84	0
56	MG	14	3185	1/1	0.90	0.41	71,71,71,71	0
56	MG	14	3435	1/1	0.90	0.36	93,93,93,93	0
56	MG	1H	3261	1/1	0.90	0.46	65,65,65,65	0
56	MG	1G	1642	1/1	0.90	0.10	102,102,102,102	0
56	MG	1H	3438	1/1	0.90	0.10	71,71,71,71	0
56	MG	13	1745	1/1	0.90	0.07	99,99,99,99	0
56	MG	1H	3336	1/1	0.90	0.10	86,86,86,86	0
56	MG	1H	3112	1/1	0.90	0.11	53,53,53,53	0
56	MG	52	201	1/1	0.90	0.17	109,109,109,109	0
56	MG	13	1746	1/1	0.90	0.08	102,102,102,102	0
56	MG	13	1650	1/1	0.90	0.10	121,121,121,121	0
56	MG	14	3197	1/1	0.90	0.45	44,44,44,44	0
56	MG	14	3450	1/1	0.90	0.05	100,100,100,100	0
56	MG	13	1676	1/1	0.90	0.11	92,92,92,92	0
56	MG	13	1727	1/1	0.90	0.08	87,87,87,87	0
56	MG	88	203	1/1	0.90	0.32	87,87,87,87	0
56	MG	14	3025	1/1	0.90	0.32	59,59,59,59	0
56	MG	13	1622	1/1	0.90	0.16	104,104,104,104	0
56	MG	1H	3275	1/1	0.90	0.28	68,68,68,68	0
56	MG	1H	3062	1/1	0.90	0.14	29,29,29,29	0
56	MG	1H	3280	1/1	0.90	0.20	76,76,76,76	0
56	MG	14	3346	1/1	0.90	0.11	74,74,74,74	0
56	MG	1H	3505	1/1	0.90	0.21	82,82,82,82	0
56	MG	1H	3064	1/1	0.90	0.61	76,76,76,76	0
56	MG	1H	3177	1/1	0.90	0.46	75,75,75,75	0
56	MG	14	3354	1/1	0.90	0.11	63,63,63,63	0
56	MG	14	3066	1/1	0.90	0.34	49,49,49,49	0
56	MG	1H	3513	1/1	0.90	0.14	64,64,64,64	0
56	MG	1J	205	1/1	0.90	0.18	90,90,90,90	0
56	MG	14	3358	1/1	0.90	0.05	76,76,76,76	0
56	MG	13	1634	1/1	0.90	0.15	68,68,68,68	0
56	MG	1H	3291	1/1	0.90	0.15	44,44,44,44	0
56	MG	1G	1620	1/1	0.90	0.34	85,85,85,85	0
56	MG	1G	1621	1/1	0.90	0.19	76,76,76,76	0
56	MG	14	3369	1/1	0.90	0.06	93,93,93,93	0
56	MG	1H	3066	1/1	0.90	0.16	57,57,57,57	0
56	MG	1H	3160	1/1	0.90	0.40	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3085	1/1	0.90	0.25	64,64,64,64	0
56	MG	1G	1625	1/1	0.90	0.17	81,81,81,81	0
56	MG	1H	3316	1/1	0.90	0.12	60,60,60,60	0
56	MG	14	3081	1/1	0.91	0.23	89,89,89,89	0
56	MG	1G	1705	1/1	0.91	0.09	116,116,116,116	0
56	MG	14	3381	1/1	0.91	0.11	101,101,101,101	0
56	MG	1H	3379	1/1	0.91	0.07	86,86,86,86	0
56	MG	1H	3382	1/1	0.91	0.06	70,70,70,70	0
56	MG	14	3086	1/1	0.91	0.27	61,61,61,61	0
56	MG	1H	3174	1/1	0.91	0.22	50,50,50,50	0
56	MG	1G	1649	1/1	0.91	0.09	83,83,83,83	0
56	MG	14	3247	1/1	0.91	0.14	58,58,58,58	0
56	MG	1G	1712	1/1	0.91	0.11	122,122,122,122	0
56	MG	14	3253	1/1	0.91	0.14	57,57,57,57	0
56	MG	1H	3390	1/1	0.91	0.10	102,102,102,102	0
56	MG	1G	1651	1/1	0.91	0.16	84,84,84,84	0
56	MG	14	3103	1/1	0.91	0.41	81,81,81,81	0
56	MG	14	3279	1/1	0.91	0.28	45,45,45,45	0
56	MG	1H	3400	1/1	0.91	0.11	48,48,48,48	0
56	MG	13	1757	1/1	0.91	0.15	84,84,84,84	0
56	MG	14	3286	1/1	0.91	0.12	68,68,68,68	0
56	MG	14	3106	1/1	0.91	0.34	75,75,75,75	0
56	MG	1H	3264	1/1	0.91	0.57	80,80,80,80	0
56	MG	1H	3558	1/1	0.91	0.06	99,99,99,99	0
56	MG	13	1624	1/1	0.91	0.25	80,80,80,80	0
56	MG	14	3180	1/1	0.91	0.60	74,74,74,74	0
56	MG	1H	3269	1/1	0.91	0.27	61,61,61,61	0
56	MG	14	3183	1/1	0.91	0.18	87,87,87,87	0
56	MG	1G	1664	1/1	0.91	0.07	126,126,126,126	0
56	MG	14	3113	1/1	0.91	0.21	67,67,67,67	0
56	MG	2L	102	1/1	0.91	0.05	88,88,88,88	0
56	MG	1H	3414	1/1	0.91	0.07	68,68,68,68	0
56	MG	14	3004	1/1	0.91	0.45	58,58,58,58	0
56	MG	1H	3162	1/1	0.91	0.26	66,66,66,66	0
56	MG	14	3007	1/1	0.91	0.18	55,55,55,55	0
56	MG	13	1741	1/1	0.91	0.09	110,110,110,110	0
56	MG	13	1620	1/1	0.91	0.33	74,74,74,74	0
56	MG	14	3021	1/1	0.91	0.38	36,36,36,36	0
56	MG	14	3451	1/1	0.91	0.07	88,88,88,88	0
56	MG	14	3316	1/1	0.91	0.18	79,79,79,79	0
56	MG	14	3022	1/1	0.91	0.11	73,73,73,73	0
56	MG	14	3132	1/1	0.91	0.61	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3322	1/1	0.91	0.18	77,77,77,77	0
56	MG	14	3328	1/1	0.91	0.30	83,83,83,83	0
56	MG	14	3330	1/1	0.91	0.14	77,77,77,77	0
56	MG	1H	3333	1/1	0.91	0.14	53,53,53,53	0
56	MG	1H	3005	1/1	0.91	0.40	83,83,83,83	0
56	MG	14	3027	1/1	0.91	0.33	86,86,86,86	0
56	MG	1H	3529	1/1	0.91	0.07	102,102,102,102	0
56	MG	1H	3530	1/1	0.91	0.34	81,81,81,81	0
56	MG	1H	3430	1/1	0.91	0.21	46,46,46,46	0
56	MG	14	3035	1/1	0.91	0.29	67,67,67,67	0
56	MG	1H	3087	1/1	0.91	0.31	66,66,66,66	0
56	MG	14	3215	1/1	0.91	0.12	79,79,79,79	0
56	MG	1H	3008	1/1	0.91	0.36	61,61,61,61	0
56	MG	13	1652	1/1	0.91	0.23	91,91,91,91	0
56	MG	14	3059	1/1	0.91	0.22	53,53,53,53	0
56	MG	1H	3362	1/1	0.91	0.17	55,55,55,55	0
56	MG	1H	3212	1/1	0.91	0.07	90,90,90,90	0
56	MG	1H	3010	1/1	0.91	0.21	53,53,53,53	0
56	MG	39	301	1/1	0.91	0.14	92,92,92,92	0
56	MG	1H	3443	1/1	0.91	0.06	72,72,72,72	0
56	MG	25	201	1/1	0.91	0.25	93,93,93,93	0
56	MG	1H	3092	1/1	0.91	0.58	55,55,55,55	0
56	MG	14	3370	1/1	0.91	0.15	83,83,83,83	0
56	MG	1H	3107	1/1	0.91	0.41	73,73,73,73	0
56	MG	14	3374	1/1	0.91	0.08	68,68,68,68	0
56	MG	1H	3378	1/1	0.91	0.10	83,83,83,83	0
56	MG	1G	1685	1/1	0.92	0.14	63,63,63,63	0
56	MG	1H	3283	1/1	0.92	0.16	58,58,58,58	0
56	MG	1H	3180	1/1	0.92	0.29	87,87,87,87	0
56	MG	14	3404	1/1	0.92	0.10	77,77,77,77	0
56	MG	1G	1624	1/1	0.92	0.19	87,87,87,87	0
56	MG	14	3297	1/1	0.92	0.07	91,91,91,91	0
56	MG	1G	1692	1/1	0.92	0.06	106,106,106,106	0
56	MG	14	3412	1/1	0.92	0.11	76,76,76,76	0
56	MG	1H	3401	1/1	0.92	0.17	46,46,46,46	0
56	MG	1H	3250	1/1	0.92	0.16	64,64,64,64	0
56	MG	1H	3127	1/1	0.92	0.24	44,44,44,44	0
56	MG	13	1685	1/1	0.92	0.18	100,100,100,100	0
56	MG	1H	3186	1/1	0.92	0.28	76,76,76,76	0
56	MG	13	1755	1/1	0.92	0.06	101,101,101,101	0
56	MG	1G	1700	1/1	0.92	0.18	87,87,87,87	0
56	MG	1H	3189	1/1	0.92	0.45	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3070	1/1	0.92	0.13	49,49,49,49	0
56	MG	14	3074	1/1	0.92	0.45	76,76,76,76	0
56	MG	14	3318	1/1	0.92	0.17	65,65,65,65	0
56	MG	13	1670	1/1	0.92	0.23	80,80,80,80	0
56	MG	1H	3320	1/1	0.92	0.23	43,43,43,43	0
56	MG	13	1607	1/1	0.92	0.06	74,74,74,74	0
56	MG	13	1647	1/1	0.92	0.13	73,73,73,73	0
56	MG	1G	1643	1/1	0.92	0.19	106,106,106,106	0
56	MG	14	3331	1/1	0.92	0.20	65,65,65,65	0
56	MG	11	302	1/1	0.92	0.25	55,55,55,55	0
56	MG	1H	3326	1/1	0.92	0.18	56,56,56,56	0
56	MG	1H	3030	1/1	0.92	0.26	49,49,49,49	0
56	MG	14	3225	1/1	0.92	0.84	84,84,84,84	0
56	MG	41	201	1/1	0.92	0.08	62,62,62,62	0
56	MG	14	3228	1/1	0.92	0.41	63,63,63,63	0
56	MG	13	1725	1/1	0.92	0.08	65,65,65,65	0
56	MG	1H	3435	1/1	0.92	0.05	55,55,55,55	0
56	MG	1G	1720	1/1	0.92	0.03	129,129,129,129	0
56	MG	1H	3140	1/1	0.92	0.16	50,50,50,50	0
56	MG	14	3236	1/1	0.92	0.10	94,94,94,94	0
56	MG	13	1695	1/1	0.92	0.15	78,78,78,78	0
56	MG	32	301	1/1	0.92	0.08	112,112,112,112	0
56	MG	13	1749	1/1	0.92	0.09	106,106,106,106	0
56	MG	1H	3232	1/1	0.92	0.82	77,77,77,77	0
56	MG	14	3366	1/1	0.92	0.08	65,65,65,65	0
56	MG	1H	3360	1/1	0.92	0.13	59,59,59,59	0
56	MG	14	3468	1/1	0.92	0.39	58,58,58,58	0
56	MG	14	3172	1/1	0.92	0.30	82,82,82,82	0
56	MG	1H	3069	1/1	0.92	0.27	45,45,45,45	0
56	MG	1G	1604	1/1	0.92	0.31	102,102,102,102	0
56	MG	14	3003	1/1	0.92	0.30	43,43,43,43	0
56	MG	13	1612	1/1	0.92	0.20	78,78,78,78	0
56	MG	1H	3113	1/1	0.92	0.19	37,37,37,37	0
56	MG	14	3268	1/1	0.92	0.19	64,64,64,64	0
56	MG	1H	3075	1/1	0.92	0.36	80,80,80,80	0
56	MG	1H	3049	1/1	0.92	0.15	50,50,50,50	0
56	MG	1H	3278	1/1	0.92	0.29	76,76,76,76	0
56	MG	1H	3124	1/1	0.92	0.28	70,70,70,70	0
56	MG	14	3120	1/1	0.92	0.17	72,72,72,72	0
56	MG	1H	3155	1/1	0.92	0.31	80,80,80,80	0
56	MG	14	3023	1/1	0.92	0.09	69,69,69,69	0
56	MG	1H	3125	1/1	0.92	0.19	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	13	1708	1/1	0.93	0.06	80,80,80,80	0
56	MG	1H	3111	1/1	0.93	0.19	57,57,57,57	0
56	MG	14	3088	1/1	0.93	0.23	105,105,105,105	0
56	MG	1H	3034	1/1	0.93	0.34	63,63,63,63	0
56	MG	1H	3178	1/1	0.93	0.47	69,69,69,69	0
56	MG	1H	3364	1/1	0.93	0.11	51,51,51,51	0
56	MG	1H	3537	1/1	0.93	0.07	79,79,79,79	0
56	MG	13	1694	1/1	0.93	0.17	79,79,79,79	0
56	MG	1H	3370	1/1	0.93	0.10	37,37,37,37	0
56	MG	14	3204	1/1	0.93	0.24	63,63,63,63	0
56	MG	1G	1612	1/1	0.93	0.30	76,76,76,76	0
56	MG	1G	1702	1/1	0.93	0.22	100,100,100,100	0
56	MG	14	3211	1/1	0.93	0.36	70,70,70,70	0
56	MG	1H	3460	1/1	0.93	0.08	75,75,75,75	0
56	MG	1H	3118	1/1	0.93	0.57	52,52,52,52	0
56	MG	14	3376	1/1	0.93	0.12	91,91,91,91	0
56	MG	1H	3463	1/1	0.93	0.09	78,78,78,78	0
56	MG	1H	3544	1/1	0.93	0.08	81,81,81,81	0
56	MG	1G	1709	1/1	0.93	0.22	99,99,99,99	0
56	MG	1H	3545	1/1	0.93	0.07	88,88,88,88	0
56	MG	1H	3148	1/1	0.93	0.19	56,56,56,56	0
56	MG	1H	3150	1/1	0.93	0.30	51,51,51,51	0
56	MG	1H	3185	1/1	0.93	0.30	54,54,54,54	0
56	MG	14	3391	1/1	0.93	0.12	73,73,73,73	0
56	MG	1H	3120	1/1	0.93	0.31	39,39,39,39	0
56	MG	1H	3383	1/1	0.93	0.08	61,61,61,61	0
56	MG	1G	1717	1/1	0.93	0.06	118,118,118,118	0
56	MG	14	3397	1/1	0.93	0.08	95,95,95,95	0
56	MG	1H	3276	1/1	0.93	0.25	78,78,78,78	0
56	MG	1H	3553	1/1	0.93	0.05	78,78,78,78	0
56	MG	1G	1721	1/1	0.93	0.09	84,84,84,84	0
56	MG	14	3402	1/1	0.93	0.06	94,94,94,94	0
56	MG	1H	3152	1/1	0.93	0.14	87,87,87,87	0
56	MG	1H	3476	1/1	0.93	0.04	91,91,91,91	0
56	MG	1H	3089	1/1	0.93	0.40	82,82,82,82	0
56	MG	1H	3482	1/1	0.93	0.11	85,85,85,85	0
56	MG	13	1649	1/1	0.93	0.17	87,87,87,87	0
56	MG	14	3137	1/1	0.93	0.77	61,61,61,61	0
56	MG	1H	3485	1/1	0.93	0.06	97,97,97,97	0
56	MG	2A	201	1/1	0.93	0.17	103,103,103,103	0
56	MG	1G	1638	1/1	0.93	0.39	92,92,92,92	0
56	MG	1G	1639	1/1	0.93	0.35	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3235	1/1	0.93	0.38	65,65,65,65	0
56	MG	1H	3561	1/1	0.93	0.05	87,87,87,87	0
56	MG	14	3434	1/1	0.93	0.07	77,77,77,77	0
56	MG	5E	201	1/1	0.93	0.17	71,71,71,71	0
56	MG	13	1750	1/1	0.93	0.21	101,101,101,101	0
56	MG	1H	3073	1/1	0.93	0.23	39,39,39,39	0
56	MG	1G	1646	1/1	0.93	0.11	119,119,119,119	0
56	MG	14	3020	1/1	0.93	0.13	73,73,73,73	0
56	MG	1H	3412	1/1	0.93	0.08	39,39,39,39	0
56	MG	1H	3128	1/1	0.93	0.44	76,76,76,76	0
56	MG	1H	3300	1/1	0.93	0.20	41,41,41,41	0
56	MG	1H	3129	1/1	0.93	0.15	66,66,66,66	0
56	MG	13	1639	1/1	0.93	0.29	91,91,91,91	0
56	MG	1H	3312	1/1	0.93	0.10	49,49,49,49	0
56	MG	1H	3131	1/1	0.93	0.21	54,54,54,54	0
56	MG	14	3029	1/1	0.93	0.29	68,68,68,68	0
56	MG	14	3452	1/1	0.93	0.06	90,90,90,90	0
56	MG	13	1717	1/1	0.93	0.10	51,51,51,51	0
56	MG	1H	3318	1/1	0.93	0.07	72,72,72,72	0
56	MG	14	3163	1/1	0.93	1.04	76,76,76,76	0
56	MG	1H	3052	1/1	0.93	0.26	59,59,59,59	0
56	MG	14	3165	1/1	0.93	0.21	67,67,67,67	0
56	MG	14	3041	1/1	0.93	0.24	44,44,44,44	0
56	MG	1G	1663	1/1	0.93	0.07	85,85,85,85	0
56	MG	14	3046	1/1	0.93	0.23	52,52,52,52	0
56	MG	14	3050	1/1	0.93	0.44	76,76,76,76	0
56	MG	16	207	1/1	0.93	0.09	60,60,60,60	0
56	MG	1H	3053	1/1	0.93	0.40	40,40,40,40	0
56	MG	14	3056	1/1	0.93	0.65	69,69,69,69	0
56	MG	13	1689	1/1	0.93	0.17	65,65,65,65	0
56	MG	14	3317	1/1	0.93	0.12	119,119,119,119	0
56	MG	13	1632	1/1	0.93	0.19	69,69,69,69	0
56	MG	1J	201	1/1	0.93	0.13	70,70,70,70	0
56	MG	1G	1669	1/1	0.93	0.18	81,81,81,81	0
56	MG	1J	203	1/1	0.93	0.21	70,70,70,70	0
56	MG	1H	3138	1/1	0.93	0.14	59,59,59,59	0
56	MG	1G	1675	1/1	0.93	0.15	101,101,101,101	0
56	MG	11	301	1/1	0.93	0.15	77,77,77,77	0
56	MG	14	3182	1/1	0.93	0.17	66,66,66,66	0
56	MG	1H	3019	1/1	0.93	0.38	39,39,39,39	0
56	MG	14	3333	1/1	0.93	0.12	64,64,64,64	0
56	MG	1H	3442	1/1	0.93	0.22	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3170	1/1	0.93	0.19	115,115,115,115	0
56	MG	1H	3083	1/1	0.93	0.15	81,81,81,81	0
56	MG	25	202	1/1	0.93	0.08	108,108,108,108	0
56	MG	1G	1686	1/1	0.93	0.06	90,90,90,90	0
56	MG	14	3345	1/1	0.93	0.13	66,66,66,66	0
56	MG	13	1707	1/1	0.93	0.10	63,63,63,63	0
56	MG	E5	101	1/1	0.93	0.46	74,74,74,74	0
56	MG	1H	3173	1/1	0.93	0.53	67,67,67,67	0
56	MG	1H	3528	1/1	0.93	0.05	72,72,72,72	0
58	ZN	G8	201	1/1	0.93	0.18	143,143,143,143	0
58	ZN	C5	201	1/1	0.93	0.05	156,156,156,156	0
56	MG	13	1615	1/1	0.94	0.17	94,94,94,94	0
56	MG	1G	1659	1/1	0.94	0.23	85,85,85,85	0
56	MG	1G	1660	1/1	0.94	0.04	92,92,92,92	0
56	MG	14	3045	1/1	0.94	0.22	67,67,67,67	0
56	MG	1H	3294	1/1	0.94	0.18	43,43,43,43	0
56	MG	14	3048	1/1	0.94	0.29	68,68,68,68	0
56	MG	1H	3108	1/1	0.94	0.22	34,34,34,34	0
56	MG	1H	3410	1/1	0.94	0.16	57,57,57,57	0
56	MG	14	3347	1/1	0.94	0.15	74,74,74,74	0
56	MG	13	1662	1/1	0.94	0.16	114,114,114,114	0
56	MG	1H	3207	1/1	0.94	0.29	119,119,119,119	0
56	MG	14	3352	1/1	0.94	0.12	66,66,66,66	0
56	MG	1H	3413	1/1	0.94	0.11	59,59,59,59	0
56	MG	14	3063	1/1	0.94	0.23	82,82,82,82	0
56	MG	1H	3248	1/1	0.94	0.12	72,72,72,72	0
56	MG	1G	1671	1/1	0.94	0.14	82,82,82,82	0
56	MG	1H	3415	1/1	0.94	0.16	73,73,73,73	0
56	MG	1G	1673	1/1	0.94	0.08	86,86,86,86	0
56	MG	14	3362	1/1	0.94	0.08	65,65,65,65	0
56	MG	14	3072	1/1	0.94	0.52	67,67,67,67	0
56	MG	1H	3315	1/1	0.94	0.07	85,85,85,85	0
56	MG	1H	3014	1/1	0.94	0.21	75,75,75,75	0
56	MG	1H	3420	1/1	0.94	0.22	55,55,55,55	0
56	MG	13	1761	1/1	0.94	0.15	75,75,75,75	0
56	MG	16	212	1/1	0.94	0.09	68,68,68,68	0
56	MG	1H	3507	1/1	0.94	0.07	84,84,84,84	0
56	MG	1H	3115	1/1	0.94	0.27	59,59,59,59	0
56	MG	14	3196	1/1	0.94	0.06	77,77,77,77	0
56	MG	1H	3117	1/1	0.94	0.20	61,61,61,61	0
56	MG	1H	3429	1/1	0.94	0.19	49,49,49,49	0
56	MG	1H	3514	1/1	0.94	0.07	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3380	1/1	0.94	0.08	95,95,95,95	0
56	MG	1H	3516	1/1	0.94	0.11	81,81,81,81	0
56	MG	14	3382	1/1	0.94	0.12	47,47,47,47	0
56	MG	1H	3517	1/1	0.94	0.07	84,84,84,84	0
56	MG	1H	3057	1/1	0.94	0.32	63,63,63,63	0
56	MG	1H	3213	1/1	0.94	0.27	96,96,96,96	0
56	MG	14	3095	1/1	0.94	0.31	76,76,76,76	0
56	MG	14	3389	1/1	0.94	0.10	82,82,82,82	0
56	MG	14	3390	1/1	0.94	0.16	72,72,72,72	0
56	MG	14	3207	1/1	0.94	0.84	63,63,63,63	0
56	MG	14	3392	1/1	0.94	0.06	85,85,85,85	0
56	MG	14	3096	1/1	0.94	0.29	48,48,48,48	0
56	MG	14	3097	1/1	0.94	0.27	70,70,70,70	0
56	MG	1H	3520	1/1	0.94	0.22	98,98,98,98	0
56	MG	14	3099	1/1	0.94	0.33	51,51,51,51	0
56	MG	14	3101	1/1	0.94	0.14	70,70,70,70	0
56	MG	1H	3324	1/1	0.94	0.06	70,70,70,70	0
56	MG	1H	3434	1/1	0.94	0.08	47,47,47,47	0
56	MG	1H	3119	1/1	0.94	0.18	46,46,46,46	0
56	MG	1H	3215	1/1	0.94	0.61	83,83,83,83	0
56	MG	1H	3327	1/1	0.94	0.06	68,68,68,68	0
56	MG	14	3407	1/1	0.94	0.13	79,79,79,79	0
56	MG	14	3408	1/1	0.94	0.06	94,94,94,94	0
56	MG	1H	3329	1/1	0.94	0.15	41,41,41,41	0
56	MG	1H	3331	1/1	0.94	0.14	49,49,49,49	0
56	MG	1H	3086	1/1	0.94	0.54	65,65,65,65	0
56	MG	13	1709	1/1	0.94	0.06	68,68,68,68	0
56	MG	1G	1615	1/1	0.94	0.20	93,93,93,93	0
56	MG	14	3420	1/1	0.94	0.07	66,66,66,66	0
56	MG	1G	1616	1/1	0.94	0.28	71,71,71,71	0
56	MG	14	3233	1/1	0.94	0.09	61,61,61,61	0
56	MG	14	3427	1/1	0.94	0.16	69,69,69,69	0
56	MG	13	1710	1/1	0.94	0.07	85,85,85,85	0
56	MG	1H	3340	1/1	0.94	0.13	65,65,65,65	0
56	MG	14	3117	1/1	0.94	0.36	79,79,79,79	0
56	MG	14	3433	1/1	0.94	0.05	143,143,143,143	0
56	MG	1H	3535	1/1	0.94	0.07	70,70,70,70	0
56	MG	14	3119	1/1	0.94	0.29	67,67,67,67	0
56	MG	14	3436	1/1	0.94	0.11	98,98,98,98	0
56	MG	13	1692	1/1	0.94	0.04	79,79,79,79	0
56	MG	14	3122	1/1	0.94	0.41	53,53,53,53	0
56	MG	13	1651	1/1	0.94	0.40	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3243	1/1	0.94	0.41	60,60,60,60	0
56	MG	1H	3029	1/1	0.94	0.17	48,48,48,48	0
56	MG	1G	1718	1/1	0.94	0.06	89,89,89,89	0
56	MG	14	3251	1/1	0.94	0.12	48,48,48,48	0
56	MG	14	3444	1/1	0.94	0.12	90,90,90,90	0
56	MG	1H	3356	1/1	0.94	0.04	64,64,64,64	0
56	MG	1H	3222	1/1	0.94	0.29	72,72,72,72	0
56	MG	13	1671	1/1	0.94	0.22	79,79,79,79	0
56	MG	14	3257	1/1	0.94	0.13	42,42,42,42	0
56	MG	1H	3032	1/1	0.94	0.32	68,68,68,68	0
56	MG	1G	1724	1/1	0.94	0.15	102,102,102,102	0
56	MG	1H	3271	1/1	0.94	0.33	63,63,63,63	0
56	MG	13	1696	1/1	0.94	0.17	72,72,72,72	0
56	MG	1H	3035	1/1	0.94	0.27	64,64,64,64	0
56	MG	1H	3372	1/1	0.94	0.11	54,54,54,54	0
56	MG	1H	3466	1/1	0.94	0.05	74,74,74,74	0
56	MG	1H	3228	1/1	0.94	0.40	79,79,79,79	0
56	MG	1G	1635	1/1	0.94	0.07	101,101,101,101	0
56	MG	1H	3229	1/1	0.94	0.22	59,59,59,59	0
56	MG	14	3144	1/1	0.94	0.40	60,60,60,60	0
56	MG	14	3001	1/1	0.94	0.19	51,51,51,51	0
56	MG	13	1697	1/1	0.94	0.03	91,91,91,91	0
56	MG	14	3147	1/1	0.94	0.12	66,66,66,66	0
56	MG	1H	3552	1/1	0.94	0.15	73,73,73,73	0
56	MG	14	3005	1/1	0.94	0.29	73,73,73,73	0
56	MG	1H	3041	1/1	0.94	0.22	86,86,86,86	0
56	MG	13	1740	1/1	0.94	0.11	96,96,96,96	0
56	MG	13	1648	1/1	0.94	0.10	105,105,105,105	0
56	MG	14	3018	1/1	0.94	0.28	75,75,75,75	0
56	MG	1J	204	1/1	0.94	0.20	90,90,90,90	0
56	MG	13	1611	1/1	0.94	0.28	64,64,64,64	0
56	MG	14	3155	1/1	0.94	0.27	73,73,73,73	0
56	MG	14	3308	1/1	0.94	0.26	90,90,90,90	0
56	MG	1H	3474	1/1	0.94	0.05	79,79,79,79	0
56	MG	1H	3388	1/1	0.94	0.09	97,97,97,97	0
56	MG	1H	3477	1/1	0.94	0.05	91,91,91,91	0
56	MG	14	3315	1/1	0.94	0.12	56,56,56,56	0
56	MG	1H	3478	1/1	0.94	0.04	78,78,78,78	0
56	MG	13	1688	1/1	0.94	0.18	92,92,92,92	0
56	MG	1H	3392	1/1	0.94	0.08	63,63,63,63	0
56	MG	1H	3080	1/1	0.94	0.32	74,74,74,74	0
56	MG	1G	1653	1/1	0.94	0.25	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3564	1/1	0.94	0.05	95,95,95,95	0
56	MG	45	201	1/1	0.94	0.12	87,87,87,87	0
56	MG	14	3323	1/1	0.94	0.10	57,57,57,57	0
56	MG	14	3324	1/1	0.94	0.12	70,70,70,70	0
56	MG	14	3326	1/1	0.94	0.06	81,81,81,81	0
56	MG	M5	101	1/1	0.94	0.14	81,81,81,81	0
56	MG	1H	3200	1/1	0.94	0.28	70,70,70,70	0
56	MG	1H	3486	1/1	0.94	0.14	95,95,95,95	0
56	MG	14	3287	1/1	0.95	0.05	71,71,71,71	0
56	MG	14	3002	1/1	0.95	0.36	61,61,61,61	0
56	MG	13	1683	1/1	0.95	0.17	92,92,92,92	0
56	MG	1H	3385	1/1	0.95	0.07	74,74,74,74	0
56	MG	1G	1605	1/1	0.95	0.29	76,76,76,76	0
56	MG	1G	1606	1/1	0.95	0.10	80,80,80,80	0
56	MG	13	1608	1/1	0.95	0.20	71,71,71,71	0
56	MG	1G	1609	1/1	0.95	0.24	70,70,70,70	0
56	MG	14	3184	1/1	0.95	0.27	70,70,70,70	0
56	MG	14	3406	1/1	0.95	0.25	86,86,86,86	0
56	MG	1G	1674	1/1	0.95	0.05	97,97,97,97	0
56	MG	13	1693	1/1	0.95	0.07	80,80,80,80	0
56	MG	13	1654	1/1	0.95	0.16	91,91,91,91	0
56	MG	1G	1678	1/1	0.95	0.14	93,93,93,93	0
56	MG	1G	1680	1/1	0.95	0.14	68,68,68,68	0
56	MG	14	3304	1/1	0.95	0.13	64,64,64,64	0
56	MG	1H	3391	1/1	0.95	0.13	56,56,56,56	0
56	MG	14	3419	1/1	0.95	0.11	97,97,97,97	0
56	MG	13	1646	1/1	0.95	0.17	89,89,89,89	0
56	MG	1H	3395	1/1	0.95	0.13	47,47,47,47	0
56	MG	14	3422	1/1	0.95	0.10	70,70,70,70	0
56	MG	1H	3397	1/1	0.95	0.20	46,46,46,46	0
56	MG	1H	3398	1/1	0.95	0.17	55,55,55,55	0
56	MG	14	3428	1/1	0.95	0.10	59,59,59,59	0
56	MG	14	3429	1/1	0.95	0.17	68,68,68,68	0
56	MG	14	3123	1/1	0.95	0.20	60,60,60,60	0
56	MG	14	3314	1/1	0.95	0.16	46,46,46,46	0
56	MG	1H	3510	1/1	0.95	0.09	92,92,92,92	0
56	MG	14	3030	1/1	0.95	0.32	38,38,38,38	0
56	MG	14	3127	1/1	0.95	0.16	85,85,85,85	0
56	MG	1H	3277	1/1	0.95	0.50	81,81,81,81	0
56	MG	1H	3070	1/1	0.95	0.30	54,54,54,54	0
56	MG	1H	3458	1/1	0.95	0.08	56,56,56,56	0
56	MG	14	3037	1/1	0.95	0.30	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3135	1/1	0.95	0.23	54,54,54,54	0
56	MG	1H	3406	1/1	0.95	0.06	52,52,52,52	0
56	MG	13	1729	1/1	0.95	0.15	88,88,88,88	0
56	MG	14	3210	1/1	0.95	0.35	74,74,74,74	0
56	MG	13	1680	1/1	0.95	0.19	73,73,73,73	0
56	MG	1H	3204	1/1	0.95	0.32	74,74,74,74	0
56	MG	14	3213	1/1	0.95	0.36	78,78,78,78	0
56	MG	1H	3521	1/1	0.95	0.07	79,79,79,79	0
56	MG	13	1601	1/1	0.95	0.23	102,102,102,102	0
56	MG	14	3338	1/1	0.95	0.09	83,83,83,83	0
56	MG	1H	3570	1/1	0.95	0.21	48,48,48,48	0
56	MG	1H	3571	1/1	0.95	0.17	39,39,39,39	0
56	MG	14	3453	1/1	0.95	0.09	102,102,102,102	0
56	MG	14	3218	1/1	0.95	0.23	74,74,74,74	0
56	MG	1H	3287	1/1	0.95	0.19	121,121,121,121	0
56	MG	14	3062	1/1	0.95	0.30	80,80,80,80	0
56	MG	13	1713	1/1	0.95	0.22	82,82,82,82	0
56	MG	1H	3351	1/1	0.95	0.17	50,50,50,50	0
56	MG	13	1644	1/1	0.95	0.16	94,94,94,94	0
56	MG	1H	3293	1/1	0.95	0.15	41,41,41,41	0
56	MG	1H	3259	1/1	0.95	0.19	58,58,58,58	0
56	MG	1H	3184	1/1	0.95	0.40	57,57,57,57	0
56	MG	1H	3305	1/1	0.95	0.14	48,48,48,48	0
56	MG	16	209	1/1	0.95	0.08	67,67,67,67	0
56	MG	13	1751	1/1	0.95	0.09	76,76,76,76	0
56	MG	13	1690	1/1	0.95	0.17	56,56,56,56	0
56	MG	13	1704	1/1	0.95	0.17	73,73,73,73	0
56	MG	14	3237	1/1	0.95	0.14	88,88,88,88	0
56	MG	1H	3480	1/1	0.95	0.05	66,66,66,66	0
56	MG	1H	3314	1/1	0.95	0.10	74,74,74,74	0
56	MG	1H	3373	1/1	0.95	0.15	100,100,100,100	0
56	MG	1H	3484	1/1	0.95	0.11	88,88,88,88	0
56	MG	14	3372	1/1	0.95	0.14	45,45,45,45	0
56	MG	1H	3060	1/1	0.95	0.21	54,54,54,54	0
56	MG	1H	3376	1/1	0.95	0.11	50,50,50,50	0
56	MG	1H	3542	1/1	0.95	0.04	81,81,81,81	0
56	MG	1G	1726	1/1	0.95	0.19	92,92,92,92	0
56	MG	14	3377	1/1	0.95	0.07	77,77,77,77	0
56	MG	14	3090	1/1	0.95	0.35	55,55,55,55	0
56	MG	14	3091	1/1	0.95	0.34	44,44,44,44	0
56	MG	78	201	1/1	0.95	0.29	70,70,70,70	0
56	MG	14	3168	1/1	0.95	0.43	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3238	1/1	0.95	0.08	76,76,76,76	0
56	MG	14	3260	1/1	0.95	0.17	52,52,52,52	0
56	MG	1H	3006	1/1	0.95	0.27	43,43,43,43	0
56	MG	1H	3103	1/1	0.95	0.24	62,62,62,62	0
56	MG	14	3269	1/1	0.95	0.10	60,60,60,60	0
56	MG	1H	3492	1/1	0.95	0.05	74,74,74,74	0
56	MG	F8	101	1/1	0.95	0.14	63,63,63,63	0
56	MG	14	3174	1/1	0.95	0.30	64,64,64,64	0
56	MG	1H	3439	1/1	0.95	0.14	55,55,55,55	0
56	MG	13	1705	1/1	0.95	0.10	102,102,102,102	0
56	MG	1H	3453	1/1	0.96	0.09	81,81,81,81	0
56	MG	1H	3056	1/1	0.96	0.33	28,28,28,28	0
56	MG	14	3261	1/1	0.96	0.15	57,57,57,57	0
56	MG	1H	3033	1/1	0.96	0.36	67,67,67,67	0
56	MG	14	3267	1/1	0.96	0.13	50,50,50,50	0
56	MG	13	1636	1/1	0.96	0.54	70,70,70,70	0
56	MG	1H	3457	1/1	0.96	0.06	78,78,78,78	0
56	MG	13	1702	1/1	0.96	0.14	64,64,64,64	0
56	MG	14	3271	1/1	0.96	0.14	60,60,60,60	0
56	MG	14	3274	1/1	0.96	0.15	50,50,50,50	0
56	MG	14	3278	1/1	0.96	0.11	50,50,50,50	0
56	MG	14	3398	1/1	0.96	0.14	84,84,84,84	0
56	MG	1G	1723	1/1	0.96	0.14	106,106,106,106	0
56	MG	13	1656	1/1	0.96	0.12	60,60,60,60	0
56	MG	14	3283	1/1	0.96	0.07	79,79,79,79	0
56	MG	1H	3284	1/1	0.96	0.38	44,44,44,44	0
56	MG	1H	3335	1/1	0.96	0.08	77,77,77,77	0
56	MG	1H	3403	1/1	0.96	0.07	71,71,71,71	0
56	MG	1H	3464	1/1	0.96	0.09	40,40,40,40	0
56	MG	1H	3147	1/1	0.96	0.29	43,43,43,43	0
56	MG	1H	3197	1/1	0.96	0.11	69,69,69,69	0
56	MG	1H	3343	1/1	0.96	0.24	39,39,39,39	0
56	MG	14	3100	1/1	0.96	0.21	77,77,77,77	0
56	MG	1H	3344	1/1	0.96	0.16	42,42,42,42	0
56	MG	1H	3532	1/1	0.96	0.09	96,96,96,96	0
56	MG	1H	3126	1/1	0.96	0.21	64,64,64,64	0
56	MG	1H	3347	1/1	0.96	0.12	72,72,72,72	0
56	MG	1G	1662	1/1	0.96	0.16	94,94,94,94	0
56	MG	78	202	1/1	0.96	0.10	63,63,63,63	0
56	MG	1H	3063	1/1	0.96	0.16	43,43,43,43	0
56	MG	14	3423	1/1	0.96	0.07	52,52,52,52	0
56	MG	14	3424	1/1	0.96	0.08	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3188	1/1	0.96	0.12	61,61,61,61	0
56	MG	1H	3350	1/1	0.96	0.16	43,43,43,43	0
56	MG	1H	3226	1/1	0.96	0.28	78,78,78,78	0
56	MG	1H	3475	1/1	0.96	0.08	73,73,73,73	0
56	MG	14	3010	1/1	0.96	0.35	50,50,50,50	0
56	MG	14	3012	1/1	0.96	0.37	56,56,56,56	0
56	MG	14	3013	1/1	0.96	0.32	60,60,60,60	0
56	MG	13	1731	1/1	0.96	0.09	83,83,83,83	0
56	MG	1H	3417	1/1	0.96	0.14	71,71,71,71	0
56	MG	1H	3354	1/1	0.96	0.19	45,45,45,45	0
56	MG	Q8	101	1/1	0.96	0.14	71,71,71,71	0
56	MG	1H	3297	1/1	0.96	0.06	52,52,52,52	0
56	MG	1H	3043	1/1	0.96	0.27	47,47,47,47	0
56	MG	1H	3361	1/1	0.96	0.16	56,56,56,56	0
56	MG	1H	3422	1/1	0.96	0.09	42,42,42,42	0
56	MG	14	3026	1/1	0.96	0.21	70,70,70,70	0
56	MG	14	3126	1/1	0.96	0.14	55,55,55,55	0
56	MG	14	3206	1/1	0.96	0.58	72,72,72,72	0
56	MG	1G	1607	1/1	0.96	0.12	120,120,120,120	0
56	MG	14	3445	1/1	0.96	0.09	89,89,89,89	0
56	MG	14	3327	1/1	0.96	0.23	60,60,60,60	0
56	MG	1H	3424	1/1	0.96	0.14	44,44,44,44	0
56	MG	14	3448	1/1	0.96	0.23	72,72,72,72	0
56	MG	14	3329	1/1	0.96	0.24	54,54,54,54	0
56	MG	1H	3301	1/1	0.96	0.17	42,42,42,42	0
56	MG	1H	3302	1/1	0.96	0.15	52,52,52,52	0
56	MG	14	3332	1/1	0.96	0.09	70,70,70,70	0
56	MG	1H	3202	1/1	0.96	0.43	63,63,63,63	0
56	MG	1H	3307	1/1	0.96	0.08	50,50,50,50	0
56	MG	14	3336	1/1	0.96	0.09	75,75,75,75	0
56	MG	1H	3489	1/1	0.96	0.08	87,87,87,87	0
56	MG	1H	3490	1/1	0.96	0.06	95,95,95,95	0
56	MG	14	3135	1/1	0.96	0.13	59,59,59,59	0
56	MG	1G	1689	1/1	0.96	0.06	79,79,79,79	0
56	MG	1H	3369	1/1	0.96	0.18	57,57,57,57	0
56	MG	1H	3308	1/1	0.96	0.10	49,49,49,49	0
56	MG	14	3220	1/1	0.96	0.39	74,74,74,74	0
56	MG	14	3348	1/1	0.96	0.15	51,51,51,51	0
56	MG	1H	3493	1/1	0.96	0.08	87,87,87,87	0
56	MG	14	3047	1/1	0.96	0.29	46,46,46,46	0
56	MG	1H	3494	1/1	0.96	0.08	53,53,53,53	0
56	MG	14	3142	1/1	0.96	0.11	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3049	1/1	0.96	0.47	79,79,79,79	0
56	MG	14	3469	1/1	0.96	0.13	55,55,55,55	0
56	MG	1H	3044	1/1	0.96	0.29	39,39,39,39	0
56	MG	13	1723	1/1	0.96	0.20	75,75,75,75	0
56	MG	1H	3023	1/1	0.96	0.47	56,56,56,56	0
56	MG	14	3359	1/1	0.96	0.09	57,57,57,57	0
56	MG	13	1664	1/1	0.96	0.48	69,69,69,69	0
56	MG	1H	3499	1/1	0.96	0.22	82,82,82,82	0
56	MG	14	3061	1/1	0.96	0.30	47,47,47,47	0
56	MG	1H	3181	1/1	0.96	0.29	88,88,88,88	0
56	MG	1H	3028	1/1	0.96	0.24	49,49,49,49	0
56	MG	2K	102	1/1	0.96	0.05	83,83,83,83	0
56	MG	1J	211	1/1	0.96	0.05	85,85,85,85	0
56	MG	29	301	1/1	0.96	0.29	49,49,49,49	0
56	MG	1H	3114	1/1	0.96	0.26	66,66,66,66	0
56	MG	14	3067	1/1	0.96	0.24	85,85,85,85	0
56	MG	2K	103	1/1	0.96	0.38	56,56,56,56	0
56	MG	1H	3384	1/1	0.96	0.04	77,77,77,77	0
56	MG	1G	1633	1/1	0.96	0.07	92,92,92,92	0
56	MG	1H	3116	1/1	0.96	0.06	64,64,64,64	0
56	MG	1H	3074	1/1	0.96	0.07	52,52,52,52	0
56	MG	14	3248	1/1	0.96	0.20	47,47,47,47	0
56	MG	14	3250	1/1	0.96	0.12	55,55,55,55	0
56	MG	1H	3447	1/1	0.96	0.15	59,59,59,59	0
56	MG	1H	3387	1/1	0.96	0.04	96,96,96,96	0
56	MG	1H	3031	1/1	0.96	0.32	74,74,74,74	0
56	MG	13	1626	1/1	0.96	0.31	60,60,60,60	0
56	MG	14	3256	1/1	0.96	0.05	65,65,65,65	0
56	MG	14	3071	1/1	0.97	0.60	52,52,52,52	0
56	MG	14	3259	1/1	0.97	0.09	57,57,57,57	0
56	MG	1H	3436	1/1	0.97	0.04	64,64,64,64	0
56	MG	1H	3110	1/1	0.97	0.16	44,44,44,44	0
56	MG	14	3386	1/1	0.97	0.09	81,81,81,81	0
56	MG	14	3387	1/1	0.97	0.10	87,87,87,87	0
56	MG	1H	3371	1/1	0.97	0.06	64,64,64,64	0
56	MG	1G	1636	1/1	0.97	0.08	91,91,91,91	0
56	MG	13	1621	1/1	0.97	0.08	84,84,84,84	0
56	MG	1H	3038	1/1	0.97	0.05	70,70,70,70	0
56	MG	1H	3265	1/1	0.97	0.13	69,69,69,69	0
56	MG	14	3082	1/1	0.97	0.08	73,73,73,73	0
56	MG	14	3394	1/1	0.97	0.08	63,63,63,63	0
56	MG	14	3272	1/1	0.97	0.03	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1G	1640	1/1	0.97	0.37	95,95,95,95	0
56	MG	1H	3266	1/1	0.97	0.21	61,61,61,61	0
56	MG	1H	3508	1/1	0.97	0.04	37,37,37,37	0
56	MG	14	3280	1/1	0.97	0.15	47,47,47,47	0
56	MG	14	3281	1/1	0.97	0.11	69,69,69,69	0
56	MG	1H	3039	1/1	0.97	0.42	74,74,74,74	0
56	MG	13	1610	1/1	0.97	0.13	77,77,77,77	0
56	MG	14	3403	1/1	0.97	0.10	80,80,80,80	0
56	MG	1H	3042	1/1	0.97	0.18	43,43,43,43	0
56	MG	14	3285	1/1	0.97	0.09	55,55,55,55	0
56	MG	1H	3512	1/1	0.97	0.10	60,60,60,60	0
56	MG	1H	3380	1/1	0.97	0.14	69,69,69,69	0
56	MG	1H	3381	1/1	0.97	0.04	74,74,74,74	0
56	MG	14	3092	1/1	0.97	0.14	43,43,43,43	0
56	MG	1H	3515	1/1	0.97	0.12	57,57,57,57	0
56	MG	14	3094	1/1	0.97	0.28	73,73,73,73	0
56	MG	14	3292	1/1	0.97	0.06	63,63,63,63	0
56	MG	14	3414	1/1	0.97	0.10	78,78,78,78	0
56	MG	14	3415	1/1	0.97	0.07	78,78,78,78	0
56	MG	14	3416	1/1	0.97	0.05	80,80,80,80	0
56	MG	13	1635	1/1	0.97	0.23	72,72,72,72	0
56	MG	14	3418	1/1	0.97	0.11	75,75,75,75	0
56	MG	1H	3449	1/1	0.97	0.12	53,53,53,53	0
56	MG	13	1726	1/1	0.97	0.08	64,64,64,64	0
56	MG	1H	3002	1/1	0.97	0.20	59,59,59,59	0
56	MG	1H	3003	1/1	0.97	0.16	44,44,44,44	0
56	MG	1H	3323	1/1	0.97	0.08	64,64,64,64	0
56	MG	1H	3175	1/1	0.97	0.15	55,55,55,55	0
56	MG	1H	3025	1/1	0.97	0.32	32,32,32,32	0
56	MG	14	3426	1/1	0.97	0.05	75,75,75,75	0
56	MG	1H	3389	1/1	0.97	0.07	46,46,46,46	0
56	MG	14	3303	1/1	0.97	0.12	68,68,68,68	0
56	MG	1H	3072	1/1	0.97	0.21	33,33,33,33	0
56	MG	1H	3149	1/1	0.97	0.23	54,54,54,54	0
56	MG	1H	3328	1/1	0.97	0.07	48,48,48,48	0
56	MG	14	3307	1/1	0.97	0.15	60,60,60,60	0
56	MG	1H	3393	1/1	0.97	0.10	61,61,61,61	0
56	MG	14	3108	1/1	0.97	0.09	67,67,67,67	0
56	MG	14	3009	1/1	0.97	0.23	41,41,41,41	0
56	MG	14	3312	1/1	0.97	0.10	47,47,47,47	0
56	MG	1H	3095	1/1	0.97	0.31	66,66,66,66	0
56	MG	14	3011	1/1	0.97	0.38	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3396	1/1	0.97	0.11	41,41,41,41	0
56	MG	13	1603	1/1	0.97	0.21	72,72,72,72	0
56	MG	14	3202	1/1	0.97	0.28	65,65,65,65	0
56	MG	14	3017	1/1	0.97	0.34	54,54,54,54	0
56	MG	1H	3246	1/1	0.97	0.31	71,71,71,71	0
56	MG	1H	3097	1/1	0.97	0.55	53,53,53,53	0
56	MG	I8	101	1/1	0.97	0.04	55,55,55,55	0
56	MG	13	1736	1/1	0.97	0.16	99,99,99,99	0
56	MG	1H	3285	1/1	0.97	0.49	50,50,50,50	0
56	MG	1H	3338	1/1	0.97	0.07	45,45,45,45	0
56	MG	1G	1676	1/1	0.97	0.17	97,97,97,97	0
56	MG	1H	3154	1/1	0.97	0.26	60,60,60,60	0
56	MG	1H	3341	1/1	0.97	0.19	43,43,43,43	0
56	MG	1G	1679	1/1	0.97	0.10	70,70,70,70	0
56	MG	1H	3408	1/1	0.97	0.12	42,42,42,42	0
56	MG	1H	3051	1/1	0.97	0.37	46,46,46,46	0
56	MG	1H	3007	1/1	0.97	0.19	60,60,60,60	0
56	MG	14	3032	1/1	0.97	0.43	50,50,50,50	0
56	MG	1G	1683	1/1	0.97	0.04	89,89,89,89	0
56	MG	1H	3289	1/1	0.97	0.15	48,48,48,48	0
56	MG	1H	3101	1/1	0.97	0.15	79,79,79,79	0
56	MG	14	3339	1/1	0.97	0.04	73,73,73,73	0
56	MG	14	3340	1/1	0.97	0.11	54,54,54,54	0
56	MG	14	3036	1/1	0.97	0.40	39,39,39,39	0
56	MG	14	3223	1/1	0.97	0.16	78,78,78,78	0
56	MG	1G	1610	1/1	0.97	0.19	70,70,70,70	0
56	MG	14	3038	1/1	0.97	0.23	81,81,81,81	0
56	MG	14	3226	1/1	0.97	0.26	51,51,51,51	0
56	MG	1H	3292	1/1	0.97	0.12	38,38,38,38	0
56	MG	14	3042	1/1	0.97	0.58	85,85,85,85	0
56	MG	1H	3187	1/1	0.97	0.54	77,77,77,77	0
56	MG	14	3230	1/1	0.97	0.26	74,74,74,74	0
56	MG	13	1728	1/1	0.97	0.05	77,77,77,77	0
56	MG	14	3232	1/1	0.97	0.15	88,88,88,88	0
56	MG	1H	3352	1/1	0.97	0.11	57,57,57,57	0
56	MG	1H	3295	1/1	0.97	0.17	55,55,55,55	0
56	MG	1H	3296	1/1	0.97	0.18	43,43,43,43	0
56	MG	1H	3355	1/1	0.97	0.11	40,40,40,40	0
56	MG	13	1738	1/1	0.97	0.09	71,71,71,71	0
56	MG	14	3361	1/1	0.97	0.12	41,41,41,41	0
56	MG	1H	3357	1/1	0.97	0.12	66,66,66,66	0
56	MG	1H	3358	1/1	0.97	0.03	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3425	1/1	0.97	0.09	39,39,39,39	0
56	MG	14	3057	1/1	0.97	0.40	61,61,61,61	0
56	MG	14	3058	1/1	0.97	0.10	93,93,93,93	0
56	MG	13	1739	1/1	0.97	0.06	79,79,79,79	0
56	MG	1H	3427	1/1	0.97	0.20	60,60,60,60	0
56	MG	14	3245	1/1	0.97	0.24	61,61,61,61	0
56	MG	14	3246	1/1	0.97	0.31	57,57,57,57	0
56	MG	13	1641	1/1	0.97	0.07	78,78,78,78	0
56	MG	13	1700	1/1	0.97	0.05	64,64,64,64	0
56	MG	1H	3303	1/1	0.97	0.14	57,57,57,57	0
56	MG	14	3065	1/1	0.97	0.27	58,58,58,58	0
56	MG	13	1753	1/1	0.97	0.07	64,64,64,64	0
56	MG	1H	3365	1/1	0.97	0.18	50,50,50,50	0
56	MG	1H	3306	1/1	0.97	0.12	38,38,38,38	0
58	ZN	5A	101	1/1	0.97	0.07	130,130,130,130	0
56	MG	1H	3061	1/1	0.97	0.36	41,41,41,41	0
56	MG	14	3031	1/1	0.98	0.32	48,48,48,48	0
56	MG	1H	3237	1/1	0.98	0.20	41,41,41,41	0
56	MG	1G	1706	1/1	0.98	0.07	82,82,82,82	0
56	MG	1H	3346	1/1	0.98	0.18	60,60,60,60	0
56	MG	14	3325	1/1	0.98	0.06	66,66,66,66	0
56	MG	1G	1601	1/1	0.98	0.14	78,78,78,78	0
56	MG	13	1609	1/1	0.98	0.24	64,64,64,64	0
56	MG	1G	1603	1/1	0.98	0.19	85,85,85,85	0
56	MG	1H	3109	1/1	0.98	0.33	34,34,34,34	0
56	MG	14	3039	1/1	0.98	0.24	63,63,63,63	0
56	MG	1H	3349	1/1	0.98	0.17	42,42,42,42	0
56	MG	14	3249	1/1	0.98	0.10	64,64,64,64	0
56	MG	13	1698	1/1	0.98	0.14	98,98,98,98	0
56	MG	14	3334	1/1	0.98	0.13	69,69,69,69	0
56	MG	14	3043	1/1	0.98	0.28	68,68,68,68	0
56	MG	13	1660	1/1	0.98	0.18	55,55,55,55	0
56	MG	1H	3290	1/1	0.98	0.18	40,40,40,40	0
56	MG	13	1721	1/1	0.98	0.07	82,82,82,82	0
56	MG	14	3255	1/1	0.98	0.20	42,42,42,42	0
56	MG	1H	3433	1/1	0.98	0.18	37,37,37,37	0
56	MG	13	1669	1/1	0.98	0.16	95,95,95,95	0
56	MG	14	3258	1/1	0.98	0.11	52,52,52,52	0
56	MG	14	3343	1/1	0.98	0.14	42,42,42,42	0
56	MG	14	3344	1/1	0.98	0.09	56,56,56,56	0
56	MG	1H	3021	1/1	0.98	0.35	43,43,43,43	0
56	MG	1G	1613	1/1	0.98	0.18	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3322	1/1	0.98	0.07	67,67,67,67	0
56	MG	14	3262	1/1	0.98	0.20	54,54,54,54	0
56	MG	1G	1666	1/1	0.98	0.07	100,100,100,100	0
56	MG	14	3265	1/1	0.98	0.24	51,51,51,51	0
56	MG	14	3351	1/1	0.98	0.12	54,54,54,54	0
56	MG	14	3054	1/1	0.98	0.26	55,55,55,55	0
56	MG	14	3055	1/1	0.98	0.38	50,50,50,50	0
56	MG	1H	3022	1/1	0.98	0.23	45,45,45,45	0
56	MG	1H	3481	1/1	0.98	0.10	59,59,59,59	0
56	MG	1H	3206	1/1	0.98	0.17	53,53,53,53	0
56	MG	1H	3572	1/1	0.98	0.28	54,54,54,54	0
56	MG	14	3273	1/1	0.98	0.09	55,55,55,55	0
56	MG	14	3060	1/1	0.98	0.09	47,47,47,47	0
56	MG	14	3275	1/1	0.98	0.18	47,47,47,47	0
56	MG	14	3277	1/1	0.98	0.14	57,57,57,57	0
56	MG	1H	3359	1/1	0.98	0.09	59,59,59,59	0
56	MG	1H	3036	1/1	0.98	0.21	45,45,45,45	0
56	MG	14	3365	1/1	0.98	0.13	44,44,44,44	0
56	MG	1H	3399	1/1	0.98	0.08	52,52,52,52	0
56	MG	14	3367	1/1	0.98	0.09	75,75,75,75	0
56	MG	13	1714	1/1	0.98	0.12	59,59,59,59	0
56	MG	1H	3298	1/1	0.98	0.11	46,46,46,46	0
56	MG	1H	3402	1/1	0.98	0.15	40,40,40,40	0
56	MG	1H	3299	1/1	0.98	0.07	35,35,35,35	0
56	MG	13	1715	1/1	0.98	0.08	94,94,94,94	0
56	MG	14	3069	1/1	0.98	0.16	47,47,47,47	0
56	MG	1H	3330	1/1	0.98	0.11	46,46,46,46	0
56	MG	1G	1628	1/1	0.98	0.39	77,77,77,77	0
56	MG	1H	3026	1/1	0.98	0.17	71,71,71,71	0
56	MG	14	3073	1/1	0.98	0.47	65,65,65,65	0
56	MG	1H	3368	1/1	0.98	0.08	49,49,49,49	0
56	MG	1H	3450	1/1	0.98	0.06	45,45,45,45	0
56	MG	1H	3055	1/1	0.98	0.36	43,43,43,43	0
56	MG	14	3294	1/1	0.98	0.16	59,59,59,59	0
56	MG	14	3470	1/1	0.98	0.27	79,79,79,79	0
56	MG	14	3077	1/1	0.98	0.27	45,45,45,45	0
56	MG	1H	3121	1/1	0.98	0.60	64,64,64,64	0
56	MG	1H	3334	1/1	0.98	0.14	59,59,59,59	0
56	MG	14	3080	1/1	0.98	0.28	53,53,53,53	0
56	MG	1H	3304	1/1	0.98	0.20	42,42,42,42	0
56	MG	1H	3255	1/1	0.98	0.10	75,75,75,75	0
56	MG	1G	1690	1/1	0.98	0.03	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3015	1/1	0.98	0.19	80,80,80,80	0
56	MG	14	3016	1/1	0.98	0.32	55,55,55,55	0
56	MG	1H	3374	1/1	0.98	0.11	68,68,68,68	0
56	MG	1H	3040	1/1	0.98	0.31	71,71,71,71	0
56	MG	1H	3416	1/1	0.98	0.12	70,70,70,70	0
56	MG	1H	3339	1/1	0.98	0.13	41,41,41,41	0
56	MG	1H	3233	1/1	0.98	0.66	57,57,57,57	0
56	MG	14	3309	1/1	0.98	0.08	76,76,76,76	0
56	MG	13	1606	1/1	0.98	0.20	71,71,71,71	0
56	MG	1H	3506	1/1	0.98	0.11	58,58,58,58	0
56	MG	1H	3342	1/1	0.98	0.12	44,44,44,44	0
56	MG	1G	1699	1/1	0.98	0.04	86,86,86,86	0
56	MG	1H	3058	1/1	0.98	0.26	69,69,69,69	0
56	MG	B5	101	1/1	0.98	0.09	76,76,76,76	0
56	MG	1H	3465	1/1	0.98	0.06	58,58,58,58	0
56	MG	13	1619	1/1	0.98	0.19	51,51,51,51	0
56	MG	14	3167	1/1	0.98	0.17	54,54,54,54	0
56	MG	1G	1648	1/1	0.98	0.09	94,94,94,94	0
58	ZN	5I	102	1/1	0.98	0.13	87,87,87,87	0
56	MG	1G	1704	1/1	0.98	0.06	99,99,99,99	0
56	MG	14	3320	1/1	0.98	0.09	79,79,79,79	0
56	MG	14	3409	1/1	0.98	0.08	73,73,73,73	0
56	MG	14	3121	1/1	0.99	0.37	45,45,45,45	0
56	MG	1H	3024	1/1	0.99	0.15	47,47,47,47	0
56	MG	1H	3309	1/1	0.99	0.13	47,47,47,47	0
56	MG	14	3355	1/1	0.99	0.10	52,52,52,52	0
56	MG	1G	1716	1/1	0.99	0.07	88,88,88,88	0
56	MG	1H	3394	1/1	0.99	0.14	40,40,40,40	0
56	MG	13	1703	1/1	0.99	0.11	75,75,75,75	0
56	MG	1G	1670	1/1	0.99	0.14	71,71,71,71	0
56	MG	14	3471	1/1	0.99	0.17	68,68,68,68	0
56	MG	1H	3337	1/1	0.99	0.12	41,41,41,41	0
56	MG	14	3040	1/1	0.99	0.26	58,58,58,58	0
56	MG	1H	3020	1/1	0.99	0.31	56,56,56,56	0
56	MG	14	3014	1/1	0.99	0.15	64,64,64,64	0
56	MG	1H	3367	1/1	0.99	0.15	40,40,40,40	0
56	MG	11	303	1/1	0.99	0.13	49,49,49,49	0
56	MG	1H	3268	1/1	0.99	0.20	78,78,78,78	0
56	MG	1H	3313	1/1	0.99	0.15	58,58,58,58	0
56	MG	21	303	1/1	0.99	0.12	42,42,42,42	0
56	MG	1H	3045	1/1	0.99	0.30	42,42,42,42	0
56	MG	14	3264	1/1	0.99	0.15	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3371	1/1	0.99	0.15	75,75,75,75	0
56	MG	1H	3531	1/1	0.99	0.10	56,56,56,56	0
56	MG	14	3266	1/1	0.99	0.24	43,43,43,43	0
56	MG	1H	3242	1/1	0.99	0.33	70,70,70,70	0
56	MG	14	3051	1/1	0.99	0.35	62,62,62,62	0
56	MG	1H	3243	1/1	0.99	0.28	54,54,54,54	0
56	MG	1G	1658	1/1	0.99	0.18	79,79,79,79	0
56	MG	2L	101	1/1	0.99	0.53	71,71,71,71	0
56	MG	1H	3404	1/1	0.99	0.14	45,45,45,45	0
56	MG	45	202	1/1	0.99	0.14	66,66,66,66	0
56	MG	14	3114	1/1	0.99	0.23	68,68,68,68	0
56	MG	14	3208	1/1	0.99	0.19	77,77,77,77	0
56	MG	1H	3282	1/1	0.99	0.14	66,66,66,66	0
56	MG	14	3276	1/1	0.99	0.09	56,56,56,56	0
56	MG	1H	3423	1/1	0.99	0.16	33,33,33,33	0
57	SF4	3E	301	8/8	0.99	0.19	75,82,92,93	0
57	SF4	32	302	8/8	0.99	0.16	99,104,114,118	0
56	MG	1H	3004	1/1	0.99	0.21	46,46,46,46	0
56	MG	1H	3017	1/1	0.99	0.45	55,55,55,55	0
56	MG	1H	3462	1/1	0.99	0.07	66,66,66,66	0
56	MG	13	1604	1/1	0.99	0.22	66,66,66,66	0

6.5 Other polymers (i)

There are no such residues in this entry.