wwPDB X-ray Structure Validation Summary Report (i)

Jan 4, 2024 – 09:17 pm GMT

PDB ID	:	4WT1
Title	:	Complex of 70S ribosome with tRNA-Phe and mRNA with A-A mismatch in the second position in the A-site
Authors	:	Rozov, A.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on	:	2014-10-29
Resolution	:	3.05 Å(reported)

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

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

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

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

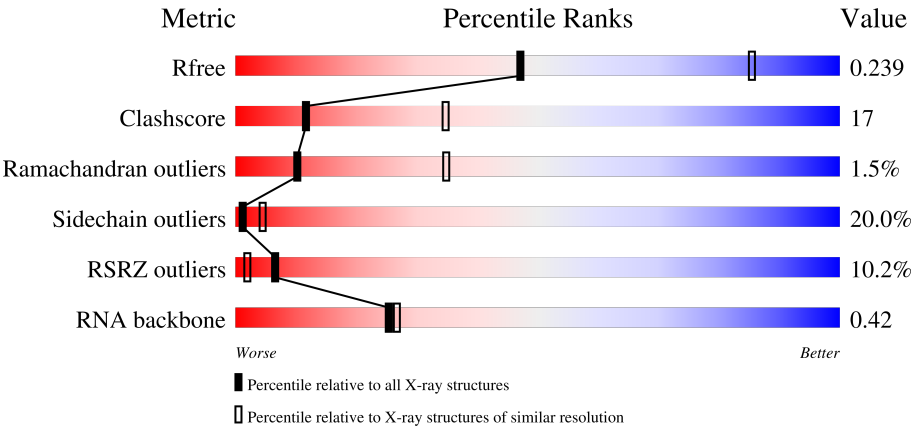
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.05 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	1754 (3.10-3.02)
Clashscore	141614	1864 (3.10-3.02)
Ramachandran outliers	138981	1794 (3.10-3.02)
Sidechain outliers	138945	1793 (3.10-3.02)
RSRZ outliers	127900	1713 (3.10-3.02)
RNA backbone	3102	1036 (3.32-2.80)

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	1522	3% 33% 43% 19%
1	1G	1522	5% 33% 46% 17%
2	12	256	7% 45% 38% 10% 7%
2	1E	256	3% 41% 39% 12% 7%

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Mol	Chain	Length	Quality of chain
3	22	239	3% 47% 34% 5% 14%
3	2E	239	56% 24% 5% 14%
4	32	209	9% 51% 39% 10%
4	3E	209	14% 45% 46% 8%
5	42	162	11% 45% 41% 7% 7%
5	4E	162	12% 47% 37% 9% 7%
6	52	101	56% 38% 6%
6	5E	101	66% 28% 6%
7	62	156	17% 55% 38% 6%
7	6E	156	10% 52% 39% 8%
8	72	138	30% 54% 40% 6%
8	7E	138	19% 43% 48% 9%
9	82	128	59% 43% 51% 5%
9	8E	128	35% 43% 45% 12%
10	1A	105	37% 41% 49% 5% 6%
10	1I	105	30% 43% 45% 7% 6%
11	2A	129	9% 50% 36% 10%
11	2I	129	6% 43% 40% 6% 10%
12	3A	132	27% 43% 42% 10% 5%
12	3I	132	8% 57% 33% 5% 5%
13	4A	126	24% 45% 38% 10% 7%
13	4I	126	6% 48% 37% 8% 6%
14	5A	61	75% 41% 48% 7% 5%
14	5I	61	39% 48% 39% 11%
15	6A	89	13% 56% 36% 7%

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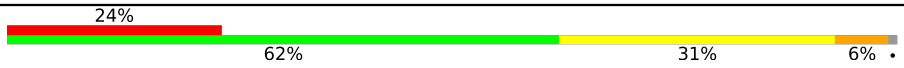
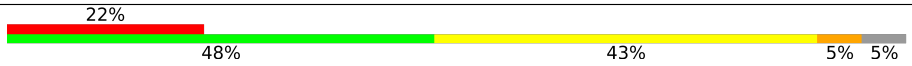
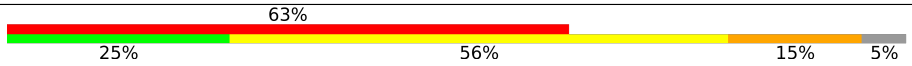
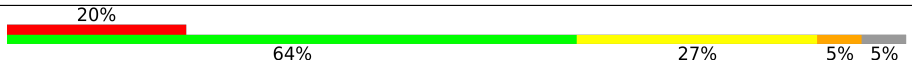
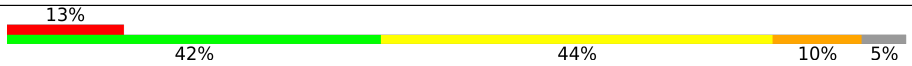
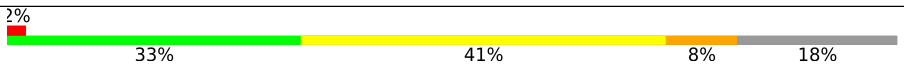
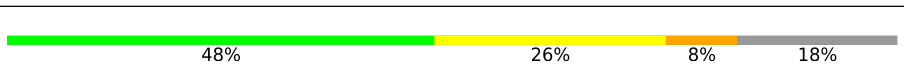
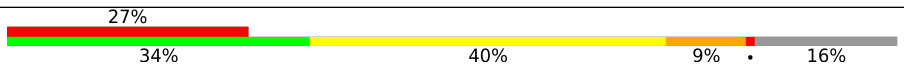
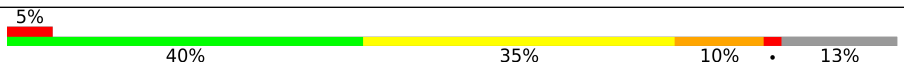
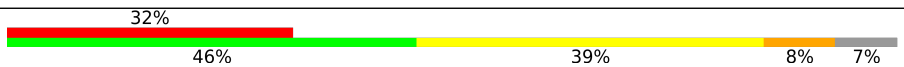
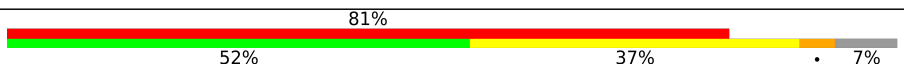
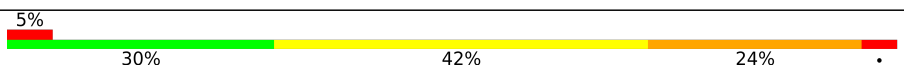
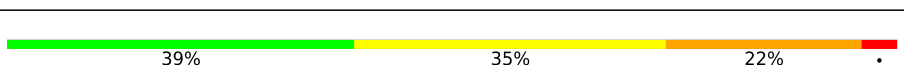
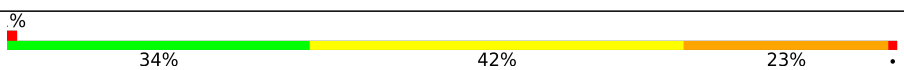
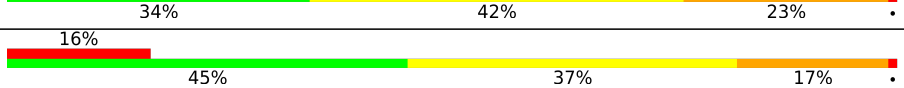
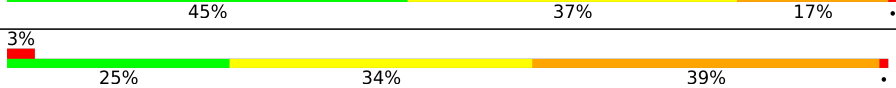
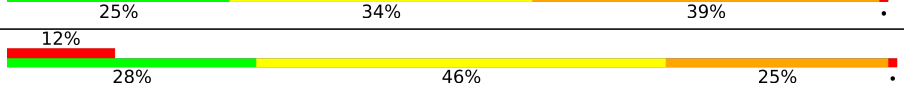
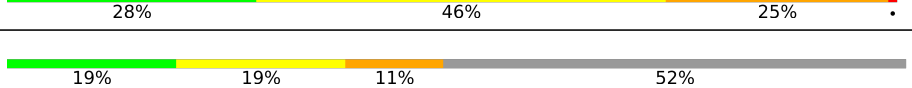
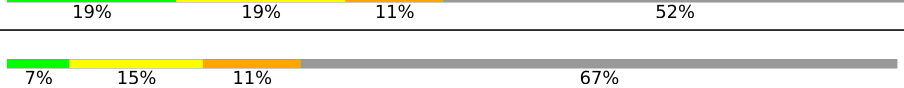
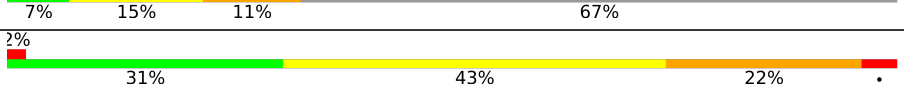
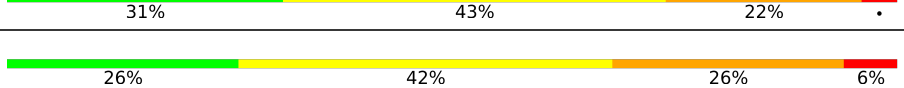
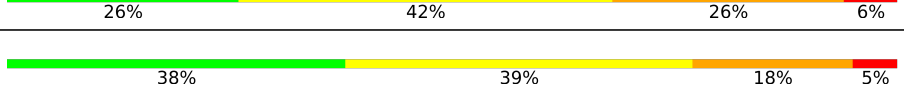
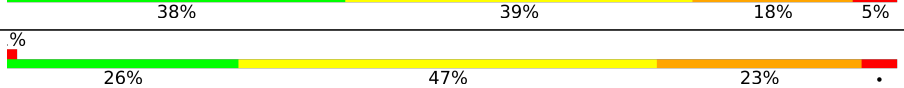
Mol	Chain	Length	Quality of chain
15	6I	89	
16	7A	88	
16	7I	88	
17	8A	105	
17	8I	105	
18	9A	88	
18	9I	88	
19	AA	93	
19	AI	93	
20	BA	106	
20	BI	106	
21	1B	27	
21	1F	27	
22	1K	76	
23	2K	77	
23	2L	77	
24	1L	76	
24	3K	76	
24	3L	76	
25	4K	27	
25	4L	27	
26	14	2917	
26	1H	2917	
27	16	122	
27	1J	122	

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Mol	Chain	Length	Quality of chain
28	11	276	3% 48% 41% 9%
28	19	276	14% 59% 32% 7%
29	21	206	13% 44% 39% 16%
29	29	206	33% 38% 48% 12%
30	31	210	% 50% 37% 10%
30	39	210	7% 45% 42% 11%
31	41	182	5% 52% 38% 9%
31	49	182	23% 49% 43% 7%
32	51	180	3% 48% 37% 11%
32	59	180	34% 42% 42% 9% 6%
33	61	148	3% 34% 46% 17%
33	69	148	15% 50% 34% 13%
34	15	140	25% 54% 34% 11%
34	58	140	11% 51% 37% 9%
35	25	122	7% 51% 42% 7%
35	68	122	2% 58% 34% 8%
36	35	150	27% 46% 34% 15% 5%
36	78	150	7% 41% 40% 17%
37	45	141	55% 43% 42% 13%
37	88	141	4% 46% 41% 9%
38	55	118	17% 47% 40% 12%
38	98	118	11% 42% 47% 12%
39	65	112	32% 32% 50% 14%
39	A8	112	4% 36% 46% 14%
40	75	146	7% 39% 41% 14% 6%

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Mol	Chain	Length	Quality of chain
40	B8	146	8% 45% 36% 12% • 6%
41	85	118	14% 55% 40% • ••
41	C8	118	16% 46% 45% 8% ••
42	95	101	14% 44% 42% 14% •
42	D8	101	10% 47% 39% 15%
43	A5	113	6% 65% 28% 7%
43	E8	113	3% 52% 36% 12%
44	B5	96	8% 51% 36% 8% •
44	F8	96	% 46% 39% 11% • •
45	C5	110	23% 32% 42% 19% • 5%
45	G8	110	40% 41% 13% • 5%
46	D5	206	17% 38% 39% 9% • 13%
46	H8	206	41% 36% 7% 15%
47	E5	85	41% 46% 35% 8% 11%
47	I8	85	24% 49% 35% 8% • 6%
48	F5	98	33% 58% 29% 11% ••
48	J8	98	14% 63% 28% 7% ••
49	G5	72	3% 51% 32% 6% • 8%
49	K8	72	3% 26% 42% 19% 6% 7%
50	H5	60	22% 52% 40% 7% •
50	L8	60	37% 43% 13% • 5%
51	I5	71	31% 30% 49% 10% 11%
51	M8	71	8% 32% 46% 13% • 7%
52	J5	60	7% 53% 30% 8% • 7%
52	N8	60	10% 53% 33% 10% •

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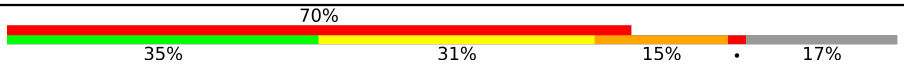
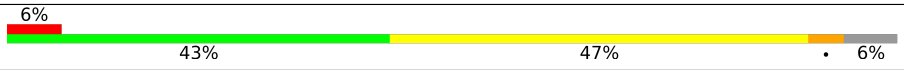
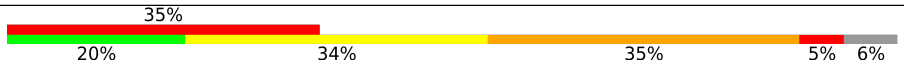
Mol	Chain	Length	Quality of chain
53	K5	54	
53	O8	54	
54	L5	49	
54	P8	49	
55	M5	65	
55	Q8	65	

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	1629	-	-	-	X
56	MG	13	1631	-	-	-	X
56	MG	13	1656	-	-	-	X
56	MG	13	1658	-	-	-	X
56	MG	13	1718	-	-	-	X
56	MG	13	1721	-	-	-	X
56	MG	13	1744	-	-	-	X
56	MG	14	3020	-	-	-	X
56	MG	14	3080	-	-	-	X
56	MG	14	3117	-	-	-	X
56	MG	14	3143	-	-	-	X
56	MG	14	3170	-	-	-	X
56	MG	14	3178	-	-	-	X
56	MG	14	3255	-	-	-	X
56	MG	14	3276	-	-	-	X
56	MG	14	3281	-	-	-	X
56	MG	14	3288	-	-	-	X
56	MG	14	3295	-	-	-	X
56	MG	14	3416	-	-	-	X
56	MG	1G	1632	-	-	-	X
56	MG	1G	1640	-	-	-	X
56	MG	1G	1670	-	-	-	X
56	MG	1H	3013	-	-	-	X
56	MG	1H	3028	-	-	-	X
56	MG	1H	3074	-	-	-	X
56	MG	1H	3119	-	-	-	X
56	MG	1H	3129	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	1H	3137	-	-	-	X
56	MG	1H	3142	-	-	-	X
56	MG	1H	3143	-	-	-	X
56	MG	1H	3157	-	-	-	X
56	MG	1H	3158	-	-	-	X
56	MG	1H	3249	-	-	-	X
56	MG	1H	3255	-	-	-	X
56	MG	1H	3266	-	-	-	X
56	MG	1H	3270	-	-	-	X
56	MG	1H	3276	-	-	-	X
56	MG	1H	3280	-	-	-	X
56	MG	1H	3305	-	-	-	X
56	MG	1H	3306	-	-	-	X
56	MG	1H	3309	-	-	-	X
56	MG	1H	3311	-	-	-	X
56	MG	1H	3326	-	-	-	X
56	MG	1H	3328	-	-	-	X
56	MG	1H	3330	-	-	-	X
56	MG	1H	3331	-	-	-	X
56	MG	1H	3332	-	-	-	X
56	MG	1H	3337	-	-	-	X
56	MG	1H	3346	-	-	-	X
56	MG	29	301	-	-	-	X
56	MG	32	301	-	-	-	X
56	MG	39	303	-	-	-	X
56	MG	L8	101	-	-	-	X

2 Entry composition (i)

There are 58 unique types of molecules in this entry. The entry contains 299951 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	1498	Total	C	N	O	P	0	0	0
			32207	14334	5973	10402	1498			
1	1G	1497	Total	C	N	O	P	0	0	0
			32182	14324	5968	10394	1496			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	1E	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			
2	12	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			

- 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	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	3E	208	Total	C	N	O	S	0	0	0
			1702	1066	339	290	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	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			
5	42	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	5E	101	Total	C	N	O	S	0	0	0
			842	531	155	153	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	155	Total	C	N	O	S	0	0	0
			1256	781	252	217	6			
7	62	155	Total	C	N	O	S	0	0	0
			1256	781	252	217	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	138	Total	C	N	O	S	0	0	0
			1115	705	215	192	3			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	8E	127	Total	C	N	O	0	0	0
			1009	639	197	173			
9	82	127	Total	C	N	O	0	0	0
			1009	639	197	173			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1A	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	2I	116	Total	C	N	O	S	0	0	0
			864	537	164	160	3			
11	2A	116	Total	C	N	O	S	0	0	0
			864	537	164	160	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	3I	125	Total	C	N	O	S	0	0	0
			975	614	196	164	1			
12	3A	125	Total	C	N	O	S	0	0	0
			975	614	196	164	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	4I	118	Total	C	N	O	S	0	0	0
			938	580	193	163	2			
13	4A	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
4I	119	ALA	GLY	conflict	UNP P80377
4A	119	ALA	GLY	conflict	UNP P80377

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	5I	60	Total	C	N	O	S	0	0	0
			491	312	104	71	4			
14	5A	58	Total	C	N	O	S	0	0	0
			475	303	99	69	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	6I	88	Total	C	N	O	S	0	0	0
			733	459	147	125	2			
15	6A	88	Total	C	N	O	S	0	0	0
			733	459	147	125	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	84	Total	C	N	O	S	0	0	0
			705	446	140	118	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	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	9I	72	Total	C	N	O	0	0	0
			590	376	117	97			
18	9A	72	Total	C	N	O	0	0	0
			590	376	117	97			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AI	81	Total	C	N	O	S	0	0	0
			647	413	119	113	2			
19	AA	78	Total	C	N	O	S	0	0	0
			624	398	115	109	2			

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

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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	25	Total	C	N	O	0	0	0
			217	134	52	31			
21	1B	25	Total	C	N	O	0	0	0
			217	134	52	31			

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

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
22	1K	76	Total	C	N	O	P	S	0	0	0
			1628	731	290	530	75	2			

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

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

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
2K	18	C	U	conflict	GB 675818144
2L	18	C	U	conflict	GB 675818144

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	3K	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
24	1L	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
24	3L	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	4K	13	Total	C	N	O	P	0	0	0
			281	127	57	84	13			
25	4L	9	Total	C	N	O	P	0	0	0
			193	87	37	60	9			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	1H	2912	Total	C	N	O	P	0	0	0
			62707	27911	11722	20163	2911			
26	14	2909	Total	C	N	O	P	0	0	0
			62647	27884	11716	20139	2908			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1H	161	U	-	insertion	GB 48268
1H	493	G	-	insertion	GB 48268
1H	1228	G	-	insertion	GB 48268
14	161	U	-	insertion	GB 48268
14	493	G	-	insertion	GB 48268
14	1228	G	-	insertion	GB 48268

- 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 L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	11	272	Total	C	N	O	S	0	0	0
			2115	1335	420	357	3			
28	19	273	Total	C	N	O	S	0	0	0
			2120	1338	421	358	3			

- Molecule 29 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	21	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			
29	29	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			

- Molecule 30 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	31	202	Total	C	N	O	S	0	0	0
			1585	1011	297	275	2			
30	39	208	Total	C	N	O	S	0	0	0
			1627	1037	304	283	3			

- Molecule 31 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	41	181	Total	C	N	O	S	0	0	0
			1473	942	268	259	4			
31	49	181	Total	C	N	O	S	0	0	0
			1473	942	268	259	4			

- Molecule 32 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	51	174	Total	C	N	O	S	0	0	0
			1336	848	251	236	1			
32	59	169	Total	C	N	O	S	0	0	0
			1299	823	244	231	1			

- Molecule 33 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	61	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			
33	69	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

- Molecule 34 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	58	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	15	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

- Molecule 35 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	68	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			
35	25	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			

- Molecule 36 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	78	150	Total	C	N	O	S	0	0	0
			1144	712	232	197	3			
36	35	150	Total	C	N	O	S	0	0	0
			1144	712	232	197	3			

- Molecule 37 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	88	138	Total	C	N	O	S	0	0	0
			1086	693	208	179	6			
37	45	141	Total	C	N	O	S	0	0	0
			1121	715	212	187	7			

- Molecule 38 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	98	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			
38	55	117	Total	C	N	O		0	0	0
			959	599	202	158				

- Molecule 39 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	A8	111	Total	C	N	O	0	0	0
			881	556	176	149			
39	65	111	Total	C	N	O	0	0	0
			881	556	176	149			

- Molecule 40 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	B8	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			
40	75	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			

- Molecule 41 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	C8	117	Total	C	N	O	S	0	0	0
			963	610	202	150	1			
41	85	117	Total	C	N	O	S	0	0	0
			963	610	202	150	1			

- Molecule 42 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	D8	101	Total	C	N	O	S	0	0	0
			778	501	142	134	1			
42	95	101	Total	C	N	O	S	0	0	0
			778	501	142	134	1			

- Molecule 43 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	E8	113	Total	C	N	O	S	0	0	0
			899	566	177	154	2			
43	A5	113	Total	C	N	O	S	0	0	0
			899	566	177	154	2			

- Molecule 44 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	F8	94	Total	C	N	O	S	0	0	0
			742	482	134	125	1			
44	B5	92	Total	C	N	O		0	0	0
			725	471	131	123				

- Molecule 45 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	G8	104	Total	C	N	O	S	0	0	0
			791	510	149	127	5			
45	C5	104	Total	C	N	O	S	0	0	0
			794	510	152	127	5			

- Molecule 46 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	H8	175	Total	C	N	O	S	0	0	0
			1397	892	251	251	3			
46	D5	179	Total	C	N	O	S	0	0	0
			1428	911	255	259	3			

- Molecule 47 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	I8	80	Total	C	N	O	S	0	0	0
			626	388	132	105	1			
47	E5	76	Total	C	N	O	S	0	0	0
			606	376	128	101	1			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
I8	6	ALA	GLY	conflict	UNP P60493
I8	8	ALA	GLY	conflict	UNP P60493
E5	6	ALA	GLY	conflict	UNP P60493
E5	8	ALA	GLY	conflict	UNP P60493

- Molecule 48 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	J8	97	Total	C	N	O	S	0	0	0
			762	481	150	130	1			
48	F5	97	Total	C	N	O	S	0	0	0
			762	481	150	130	1			

- Molecule 49 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	K8	67	Total	C	N	O	S	0	0	0
			563	349	114	99	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	G5	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
50	L8	57	Total	C	N	O	0	0	0
			452	288	88	76			
50	H5	59	Total	C	N	O	0	0	0
			468	298	90	80			

- Molecule 51 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	M8	66	Total	C	N	O	S	0	0	0
			533	335	96	97	5			
51	I5	63	Total	C	N	O	S	0	0	0
			515	326	93	91	5			

- Molecule 52 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	N8	58	Total	C	N	O	S	0	0	0
			453	285	89	74	5			
52	J5	56	Total	C	N	O	S	0	0	0
			434	272	87	70	5			

- Molecule 53 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	O8	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			
53	K5	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	P8	45	Total	C	N	O	S	0	0	0
			391	240	97	52	2			
54	L5	46	Total	C	N	O	S	0	0	0
			398	245	98	53	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	Q8	61	Total	C	N	O	S	0	0	0
			485	309	99	75	2			
55	M5	60	Total	C	N	O	S	0	0	0
			477	303	98	74	2			

- Molecule 56 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	13	152	Total	Mg	0	0
			152	152		
56	5E	1	Total	Mg	0	0
			1	1		
56	3I	2	Total	Mg	0	0
			2	2		
56	2K	7	Total	Mg	0	0
			7	7		
56	4K	1	Total	Mg	0	0
			1	1		
56	1H	506	Total	Mg	0	0
			506	506		
56	16	15	Total	Mg	0	0
			15	15		
56	11	2	Total	Mg	0	0
			2	2		
56	21	2	Total	Mg	0	0
			2	2		
56	31	1	Total	Mg	0	0
			1	1		
56	41	2	Total	Mg	0	0
			2	2		
56	78	2	Total	Mg	0	0
			2	2		
56	88	2	Total	Mg	0	0
			2	2		
56	G8	1	Total	Mg	0	0
			1	1		
56	I8	2	Total	Mg	0	0
			2	2		
56	J8	1	Total	Mg	0	0
			1	1		
56	L8	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	P8	1	Total Mg 1 1	0	0
56	1G	88	Total Mg 88 88	0	0
56	32	1	Total Mg 1 1	0	0
56	52	1	Total Mg 1 1	0	0
56	6A	1	Total Mg 1 1	0	0
56	2L	3	Total Mg 3 3	0	0
56	14	426	Total Mg 426 426	0	0
56	1J	10	Total Mg 10 10	0	0
56	29	2	Total Mg 2 2	0	0
56	39	3	Total Mg 3 3	0	0
56	49	1	Total Mg 1 1	0	0
56	15	1	Total Mg 1 1	0	0
56	25	2	Total Mg 2 2	0	0
56	35	1	Total Mg 1 1	0	0
56	45	2	Total Mg 2 2	0	0
56	85	1	Total Mg 1 1	0	0
56	C5	1	Total Mg 1 1	0	0
56	E5	1	Total Mg 1 1	0	0
56	M5	1	Total Mg 1 1	0	0

- Molecule 57 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	3E	1	Total Zn 1 1	0	0
57	5I	1	Total Zn 1 1	0	0
57	G8	1	Total Zn 1 1	0	0
57	32	1	Total Zn 1 1	0	0
57	5A	1	Total Zn 1 1	0	0
57	C5	1	Total Zn 1 1	0	0

- Molecule 58 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	13	164	Total O 164 164	0	0
58	3E	1	Total O 1 1	0	0
58	4E	1	Total O 1 1	0	0
58	1I	1	Total O 1 1	0	0
58	3I	1	Total O 1 1	0	0
58	5I	1	Total O 1 1	0	0
58	6I	1	Total O 1 1	0	0
58	7I	1	Total O 1 1	0	0
58	4K	1	Total O 1 1	0	0
58	1H	920	Total O 920 920	0	0
58	16	6	Total O 6 6	0	0
58	11	9	Total O 9 9	0	0
58	21	5	Total O 5 5	0	0
58	31	7	Total O 7 7	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	78	6	Total O 6 6	0	0
58	B8	1	Total O 1 1	0	0
58	C8	2	Total O 2 2	0	0
58	E8	1	Total O 1 1	0	0
58	F8	1	Total O 1 1	0	0
58	G8	3	Total O 3 3	0	0
58	J8	1	Total O 1 1	0	0
58	L8	3	Total O 3 3	0	0
58	P8	1	Total O 1 1	0	0
58	Q8	2	Total O 2 2	0	0
58	1G	64	Total O 64 64	0	0
58	32	1	Total O 1 1	0	0
58	7A	1	Total O 1 1	0	0
58	14	543	Total O 543 543	0	0
58	1J	18	Total O 18 18	0	0
58	19	3	Total O 3 3	0	0
58	29	3	Total O 3 3	0	0
58	39	8	Total O 8 8	0	0
58	15	1	Total O 1 1	0	0
58	35	1	Total O 1 1	0	0
58	85	1	Total O 1 1	0	0

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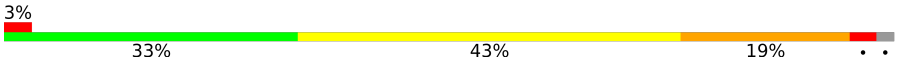
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	L5	2	Total O 2 2	0	0

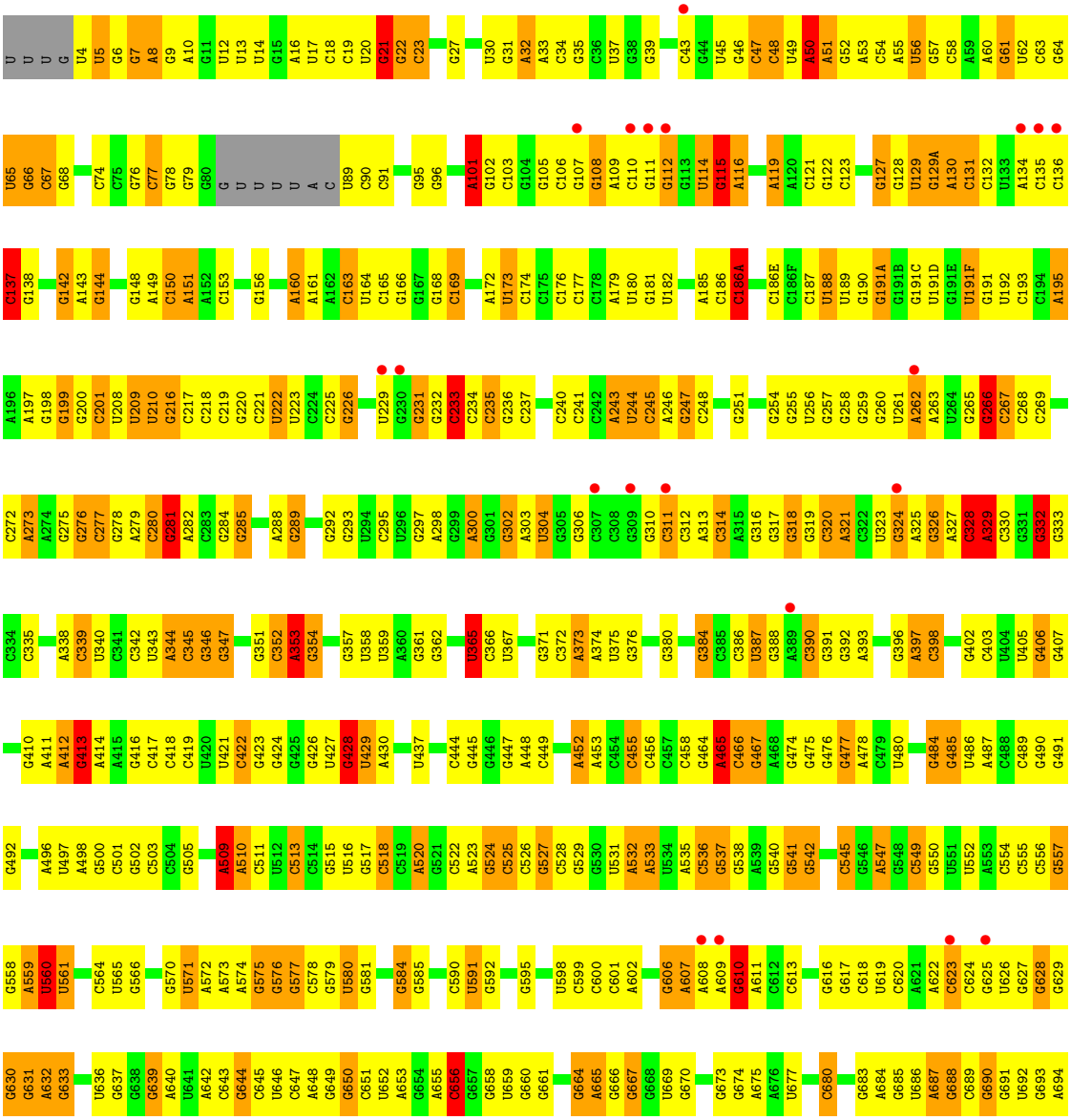
3 Residue-property plots (i)

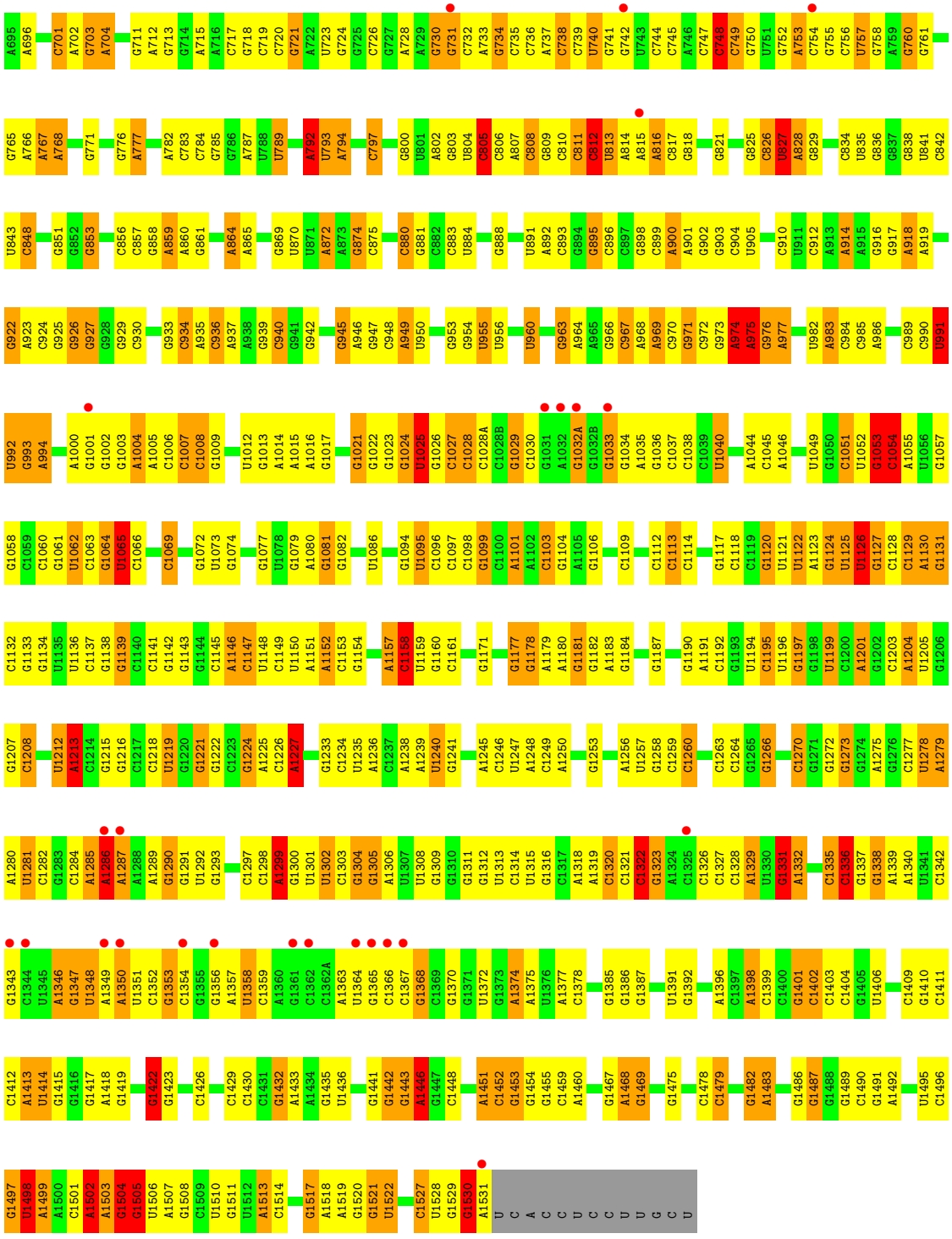
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

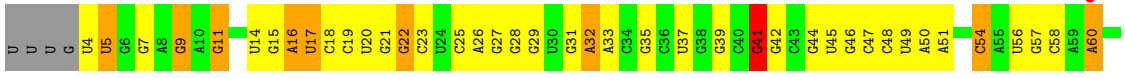


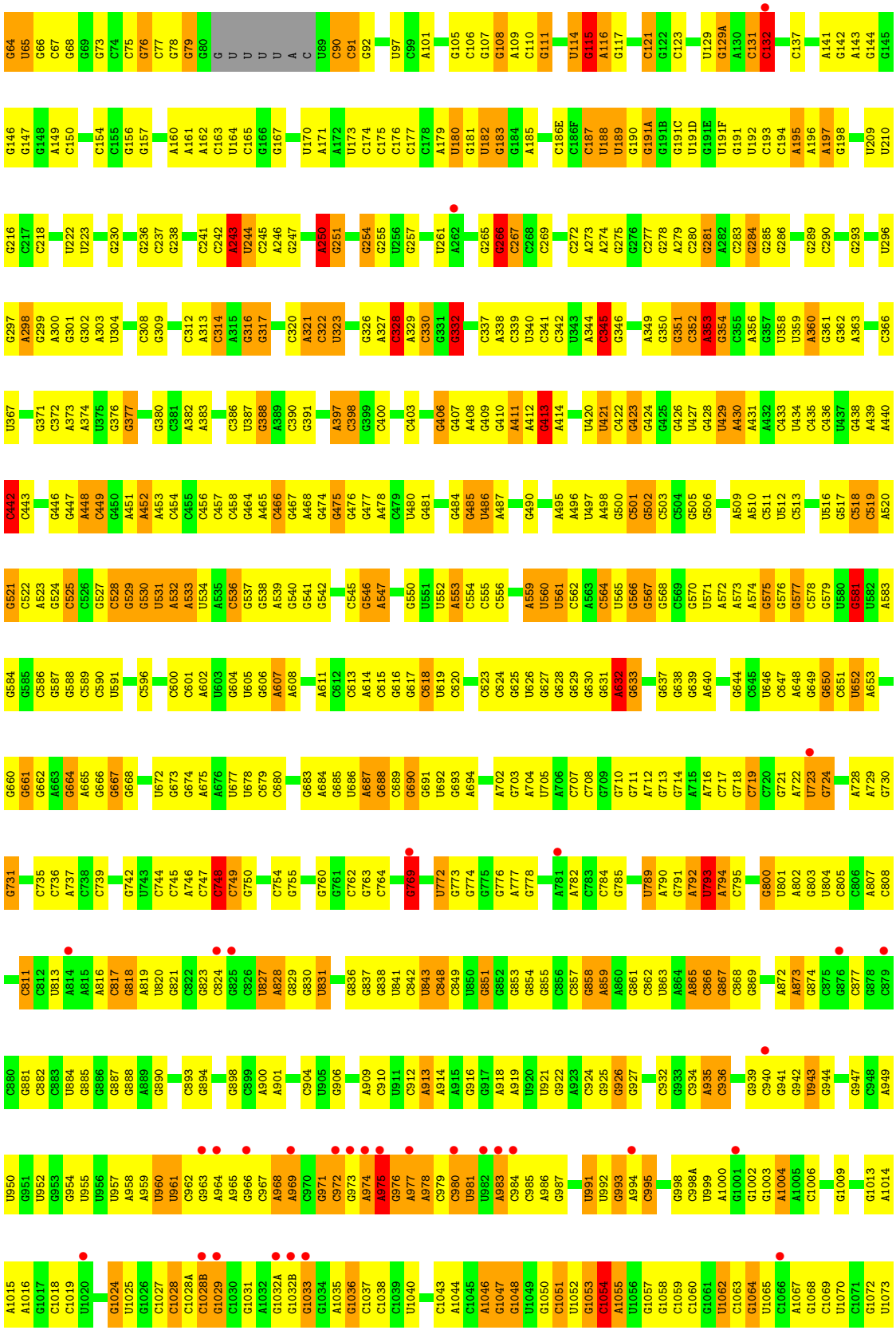




• Molecule 1: 16S ribosomal RNA

Chain 1G:

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G146 G147 G148 A149 C150 C154 C155 G156 G157 A160 A161 A162 C163 U164 C165 G166 G167 U170 A171 A172 U173 C174 C175 C176 C177 C178 A179 U180 G181 U182 G183 G184 A185 C186E C186F C187 U188 U189 G190 G191A G191B G191C U191D G191E U191F G191 U192 C193 C194 A195 A196 A197 G198 U209 U210
G216 C217 C218 U222 U223 G230 G236 C237 G238 C241 C242 A243 U244 C245 A246 G247 A250 G251 G254 G255 U256 G257 U261 A262 G265 G266 C267 C268 C269 C272 A273 A274 G275 G276 C277 G278 A279 C280 G281 A282 C283 G284 G285 G286 G289 C290 G293 U296
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U367 G371 C372 A373 A374 U375 G376 G377 G380 C381 A382 A383 C386 U387 G388 A389 C390 G391 A397 C398 G399 C400 C403 G406 G407 A408 G409 G410 A411 A412 G413 A414 U420 U421 C422 G423 G424 G425 G426 U427 G428 U429 A430 A431 A432 C433 U434 C435 C436 U437 G438 A439 A440
C442 C443 G446 G447 A448 C449 G450 A451 A452 A453 C454 C455 C456 C457 C458 G464 A465 C466 G467 A468 G474 G475 G476 G477 A478 C479 U480 G481 G484 G485 U486 A487 G490 A495 A496 U497 A498 G500 C501 G502 C503 C504 G505 G506 A509 A510 C511 U512 C513 U516 G517 C518 C519 A520
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G584 G585 C586 G587 G588 C589 C590 U591 C596 C600 C601 A602 U603 G604 U605 G606 A607 A608 A611 G612 C613 A614 C615 G616 G617 C618 U619 C620 C623 C624 G625 U626 G627 G628 G629 G630 G631 A632 G633 G637 G638 G639 A640 G644 G645 U646 C647 A648 G649 G650 C651 U652 A653
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C811 C812 U813 A814 A815 A816 C817 G818 A819 U820 G821 C822 G823 C824 G825 C826 U827 A828 G829 G830 U831 G836 G837 G838 U841 C842 U843 C848 C849 U850 C851 C852 G853 C854 G855 C856 C857 G858 A859 A860 G861 C862 U863 A864 A865 C866 G867 C868 G869 A872 A873 G874 C875 G876 C877 G878 C879
C880 G881 C882 C883 U884 G885 G886 G887 G888 A889 G890 C893 G894 G898 C899 A900 A901 C904 U905 G906 A909 C910 U911 C912 A913 A914 A915 G916 G917 A918 A919 U920 U921 G922 A923 C924 G925 G926 G927 C932 G933 C934 A935 C936 G939 C940 G941 G942 U943 G944 G947 C948 A949
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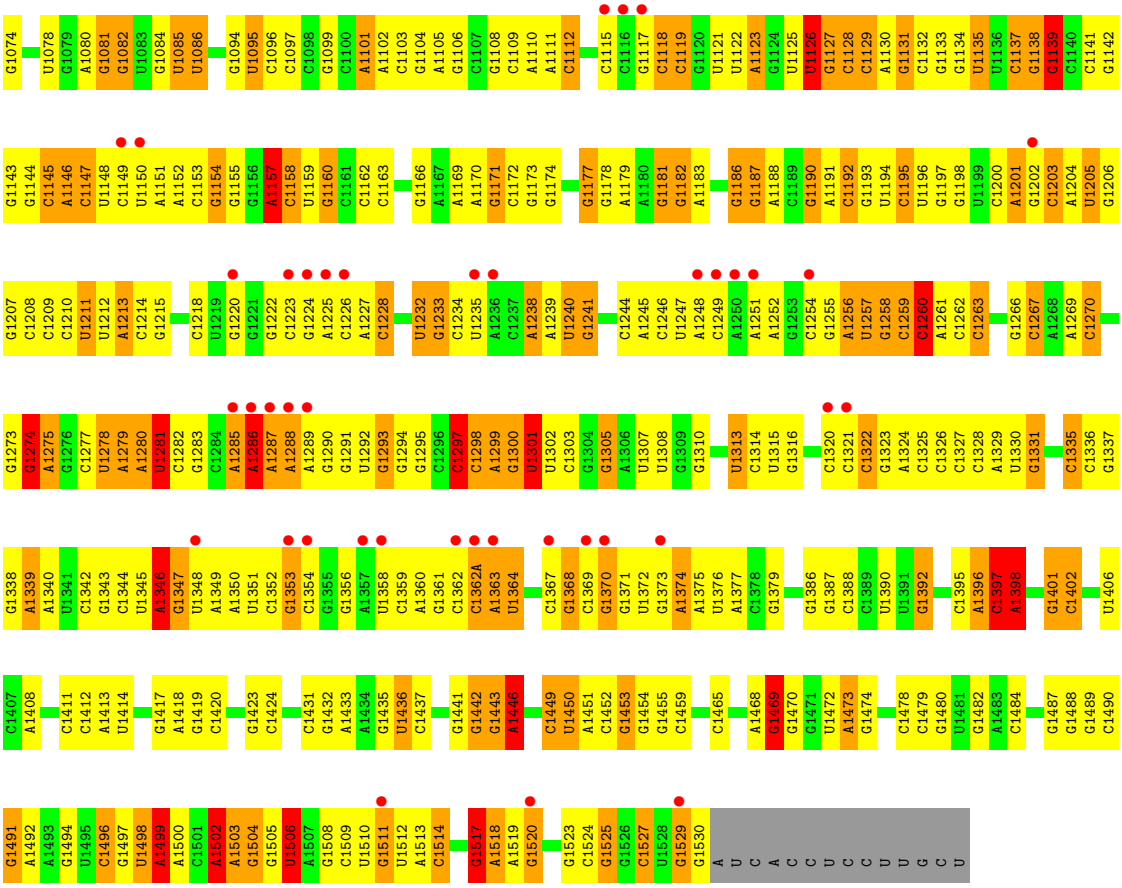
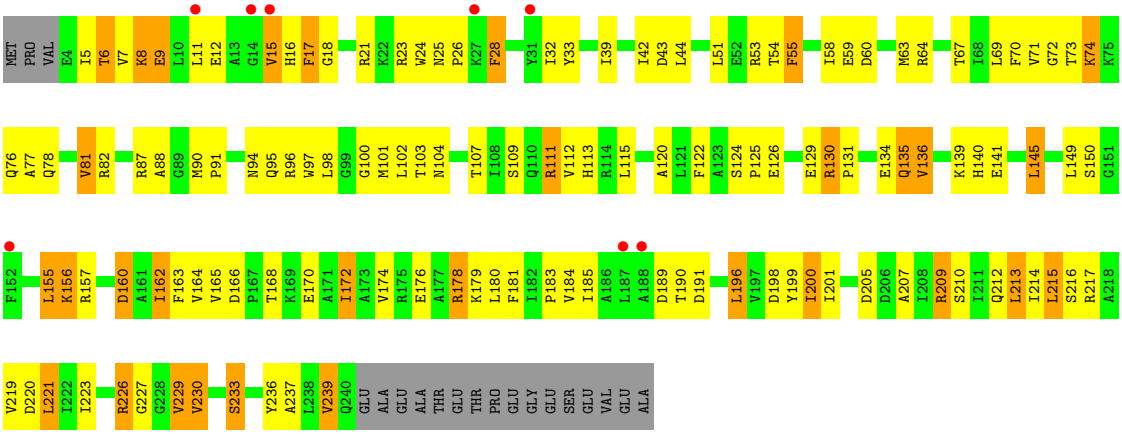
A1015 A1016 G1017 C1018 C1019 U1020 G1024 U1025 G1026 C1027 C1028 C1028A C1028B G1029 C1030 G1031 A1032 G1032A G1032B G1033 G1034 A1035 G1036 C1037 C1038 C1039 U1040 C1043 A1044 C1045 A1046 G1047 G1048 U1049 G1050 C1051 U1052 G1053 C1054 A1055 U1056 G1057 G1058 C1059 C1060 G1061 U1062 C1063 G1064 U1065 C1066 A1067 G1068 C1069 U1070 C1071 G1072 U1073



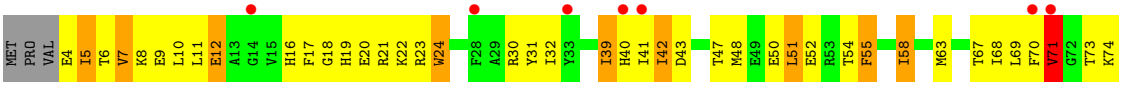
• Molecule 2: 30S ribosomal protein S2

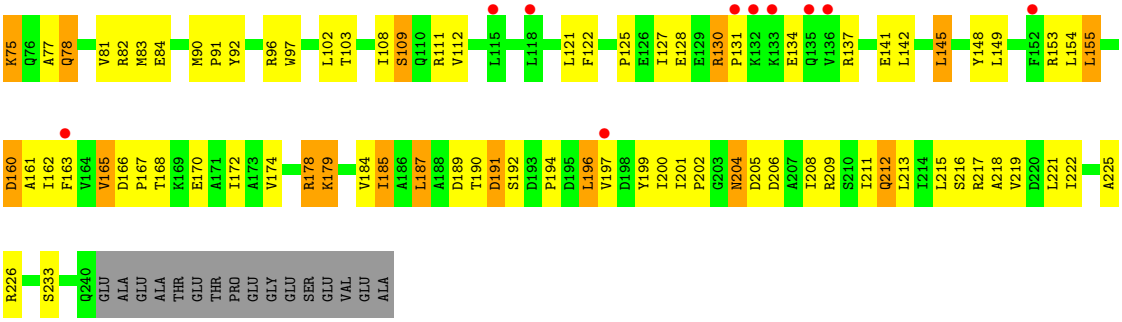
Chain 1E:



• Molecule 2: 30S ribosomal protein S2

Chain 12:



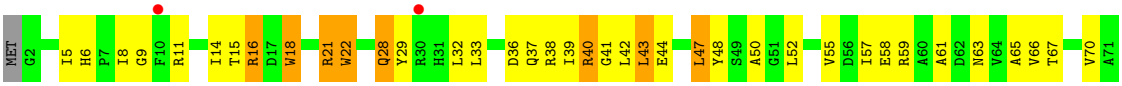


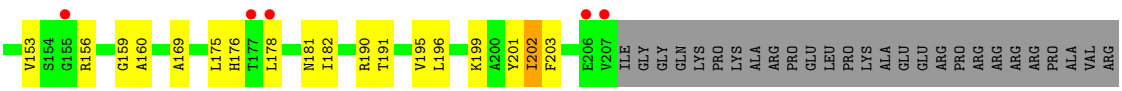
• Molecule 3: 30S ribosomal protein S3

Chain 2E:

• Molecule 3: 30S ribosomal protein S3

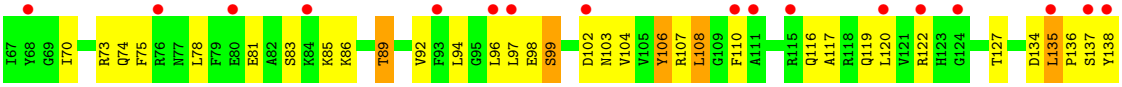
Chain 22:





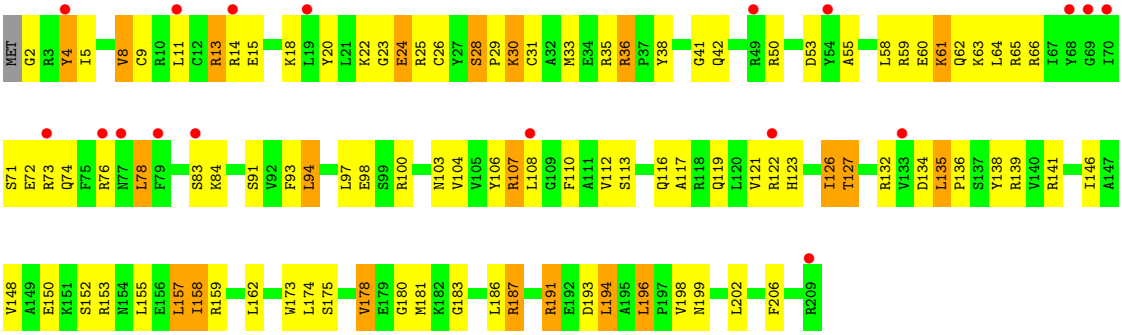
• Molecule 4: 30S ribosomal protein S4

Chain 3E:



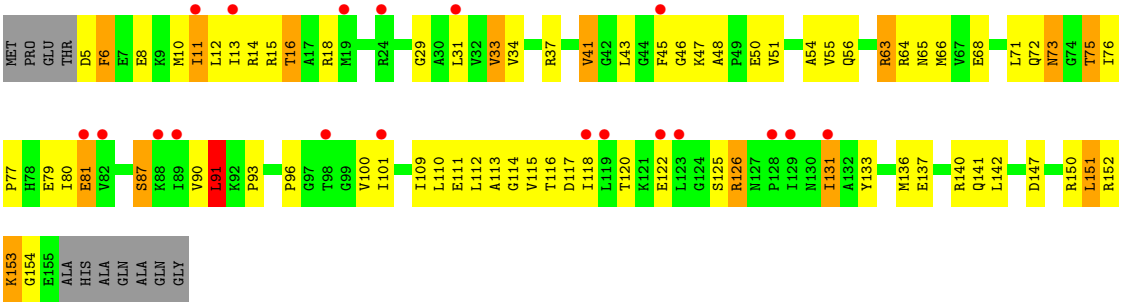
• Molecule 4: 30S ribosomal protein S4

Chain 32:



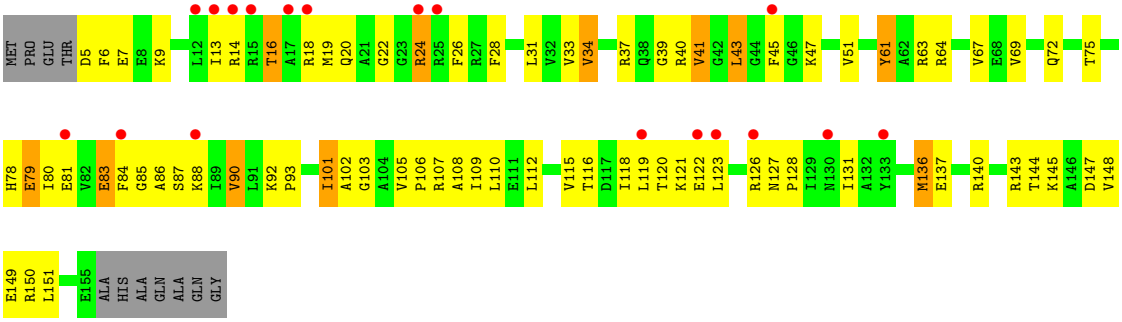
• Molecule 5: 30S ribosomal protein S5

Chain 4E:



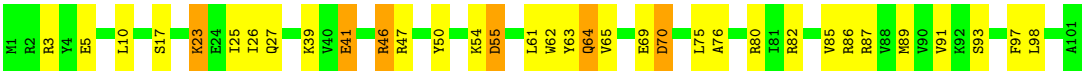
• Molecule 5: 30S ribosomal protein S5

Chain 42:



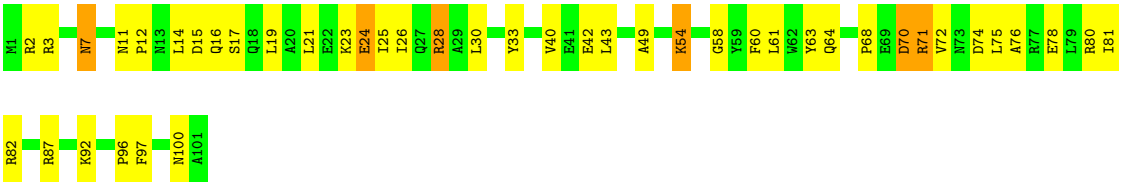
• Molecule 6: 30S ribosomal protein S6

Chain 5E:



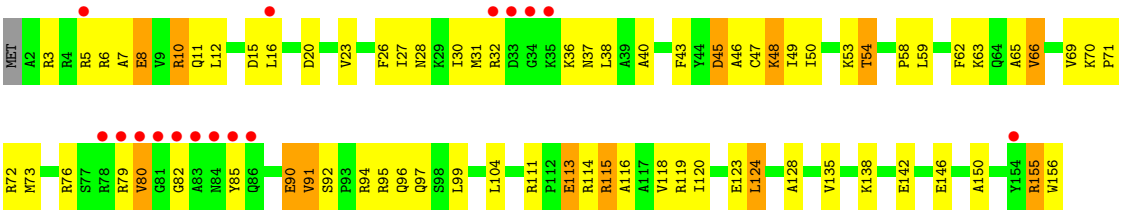
• Molecule 6: 30S ribosomal protein S6

Chain 52:



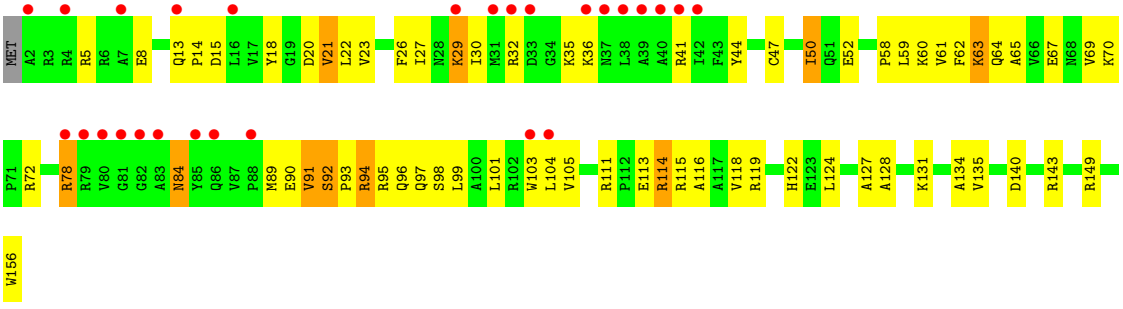
• Molecule 7: 30S ribosomal protein S7

Chain 6E:



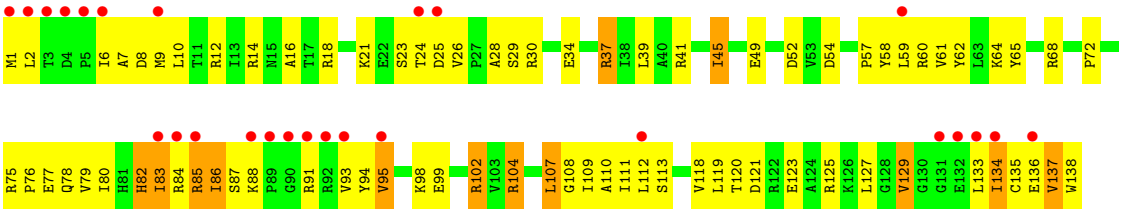
• Molecule 7: 30S ribosomal protein S7

Chain 62:



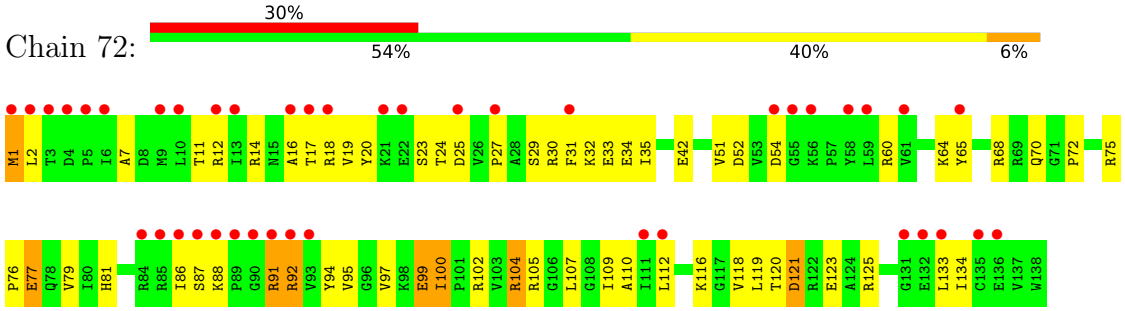
• Molecule 8: 30S ribosomal protein S8

Chain 7E:



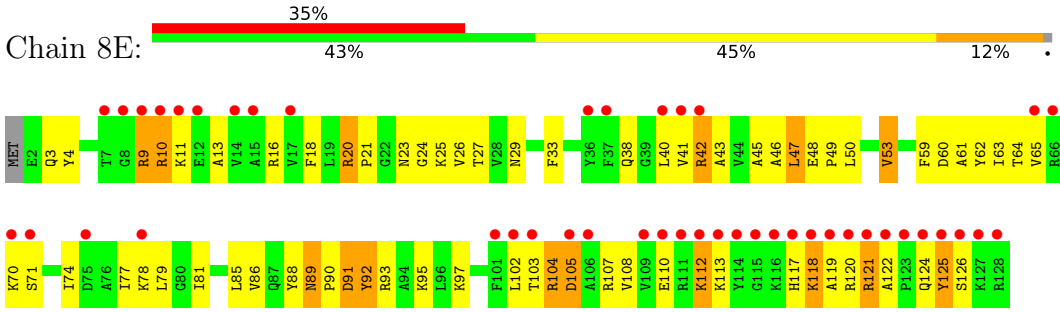
• Molecule 8: 30S ribosomal protein S8

Chain 72:



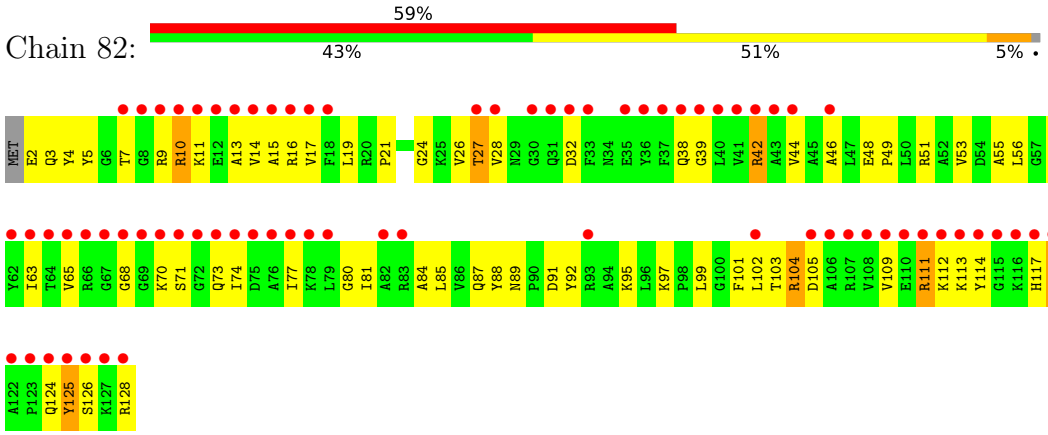
• Molecule 9: 30S ribosomal protein S9

Chain 8E:



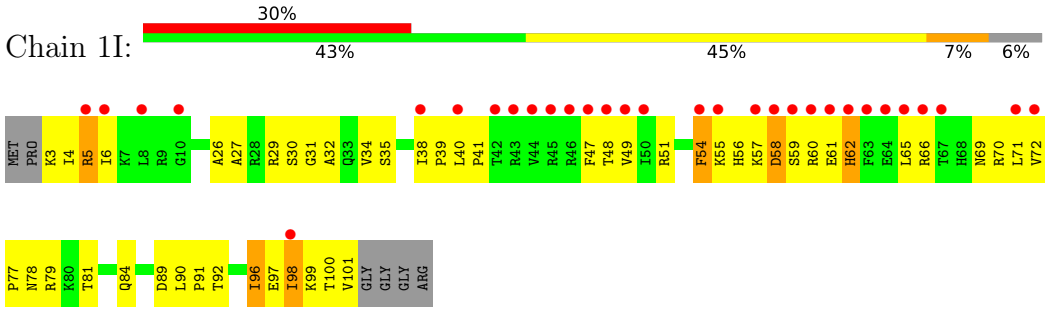
• Molecule 9: 30S ribosomal protein S9

Chain 82:



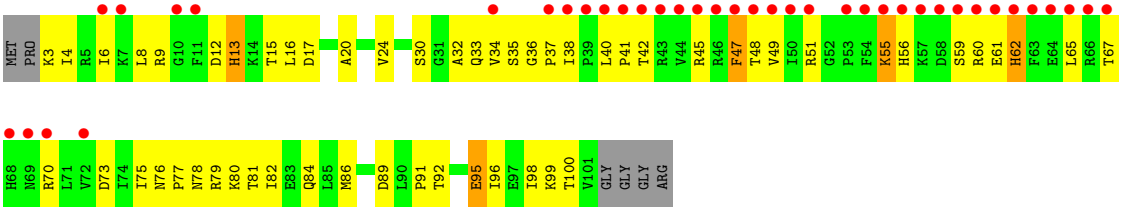
• Molecule 10: 30S ribosomal protein S10

Chain 1I:



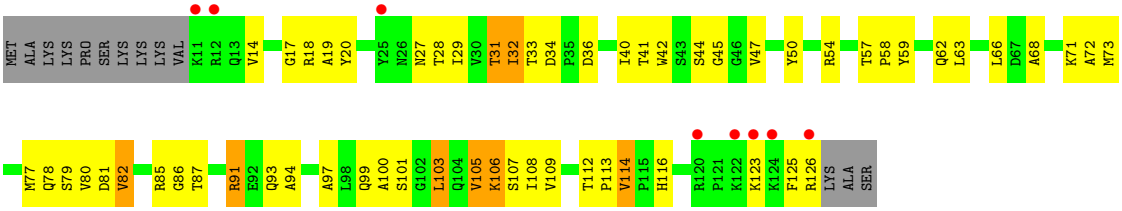
• Molecule 10: 30S ribosomal protein S10

Chain 1A:



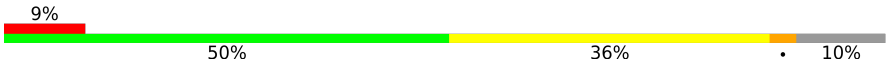
• Molecule 11: 30S ribosomal protein S11

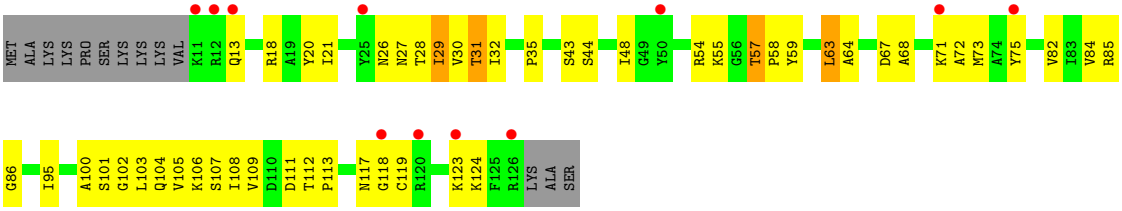
Chain 2I:



• Molecule 11: 30S ribosomal protein S11

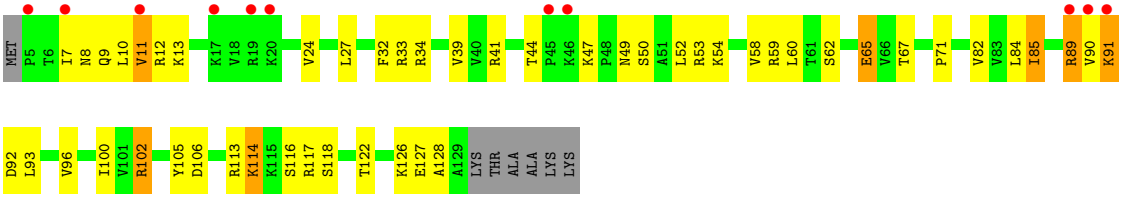
Chain 2A:





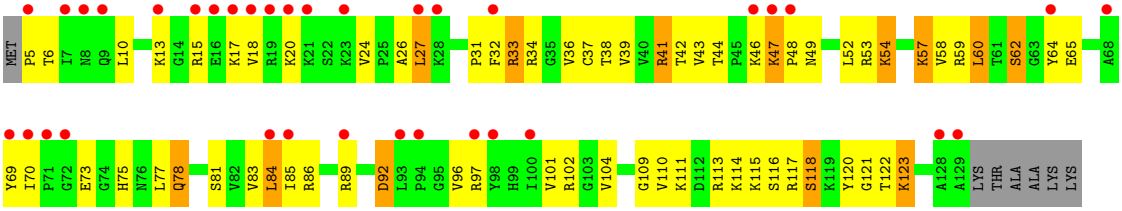
• Molecule 12: 30S ribosomal protein S12

Chain 3I:



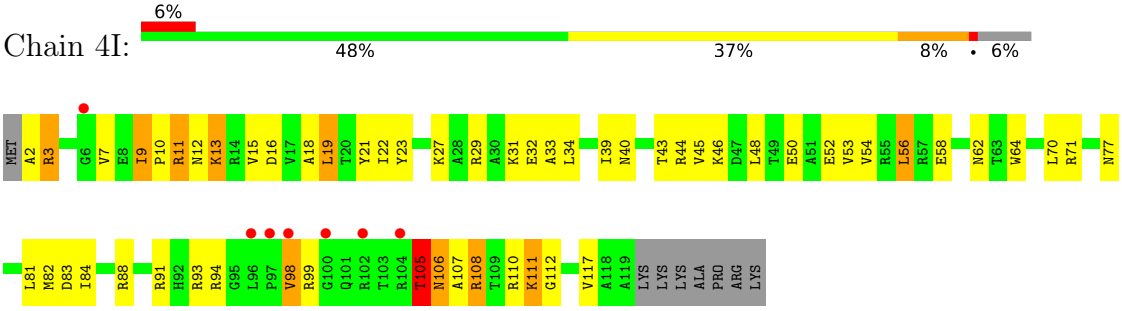
• Molecule 12: 30S ribosomal protein S12

Chain 3A:



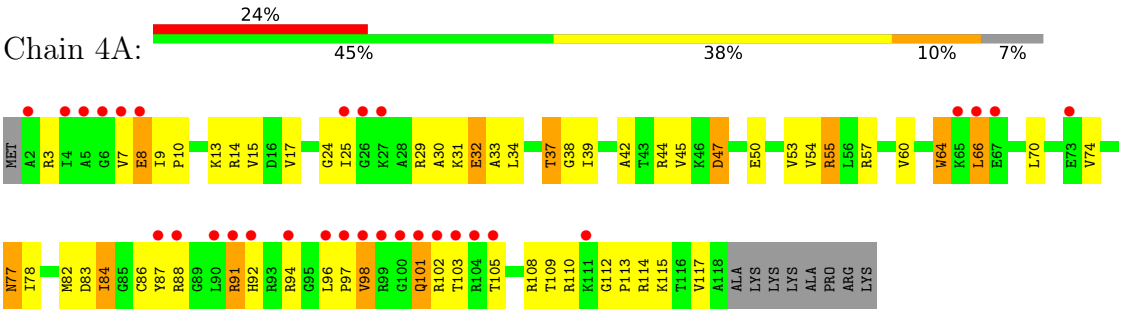
• Molecule 13: 30S ribosomal protein S13

Chain 4I:



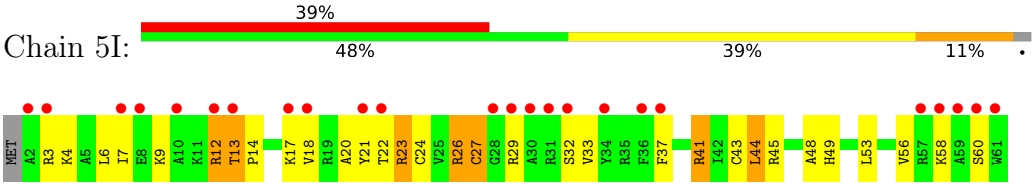
• Molecule 13: 30S ribosomal protein S13

Chain 4A:



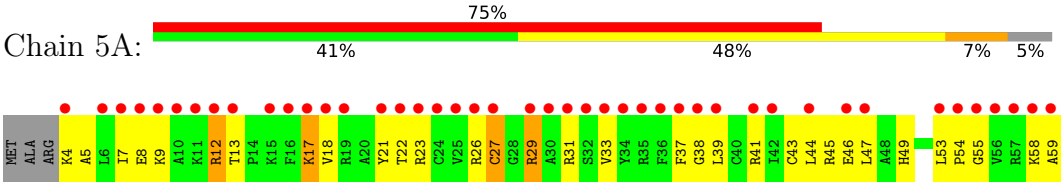
• Molecule 14: 30S ribosomal protein S14 type Z

Chain 5I:



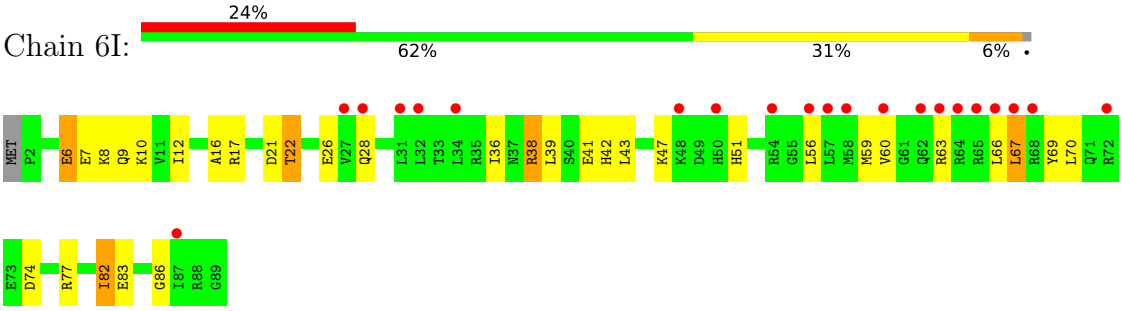
• Molecule 14: 30S ribosomal protein S14 type Z

Chain 5A:



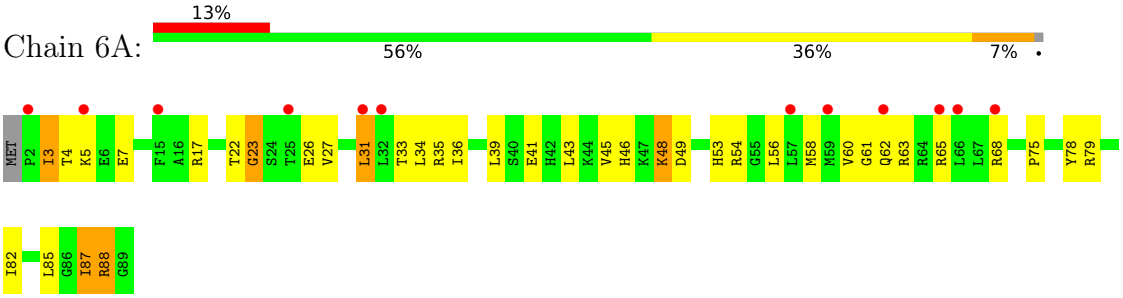
• Molecule 15: 30S ribosomal protein S15

Chain 6I:



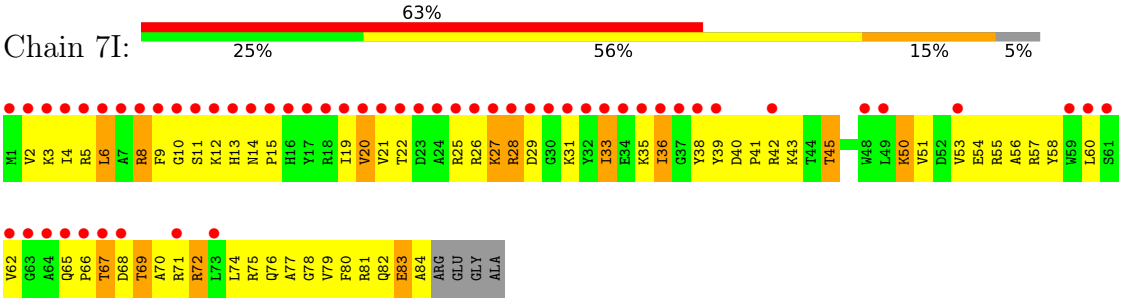
• Molecule 15: 30S ribosomal protein S15

Chain 6A:



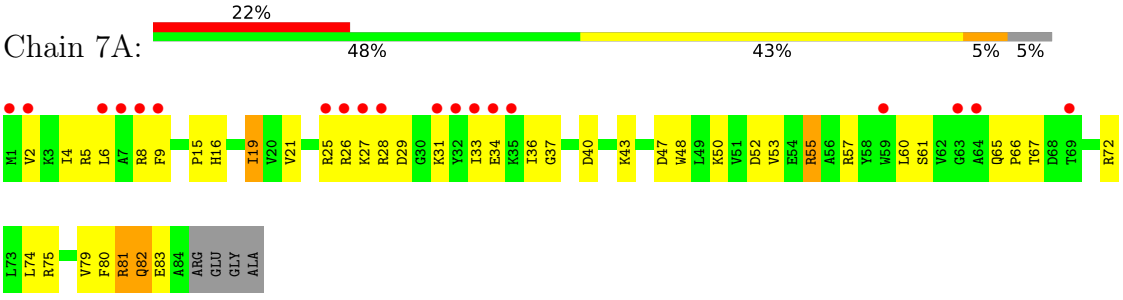
• Molecule 16: 30S ribosomal protein S16

Chain 7I:



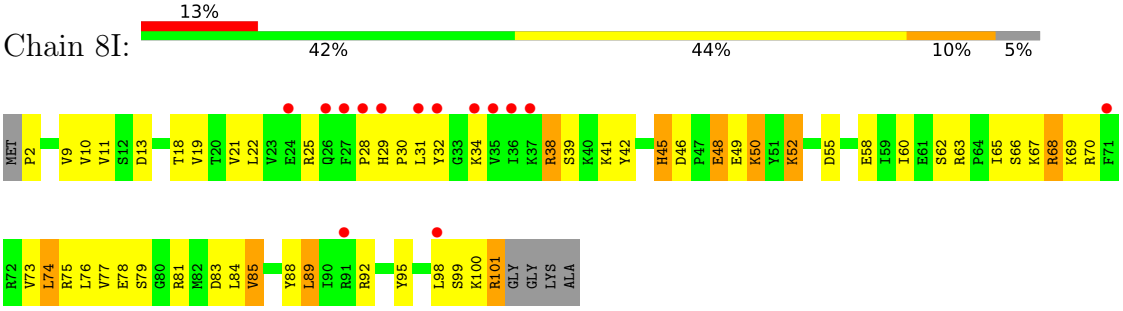
• Molecule 16: 30S ribosomal protein S16

Chain 7A:



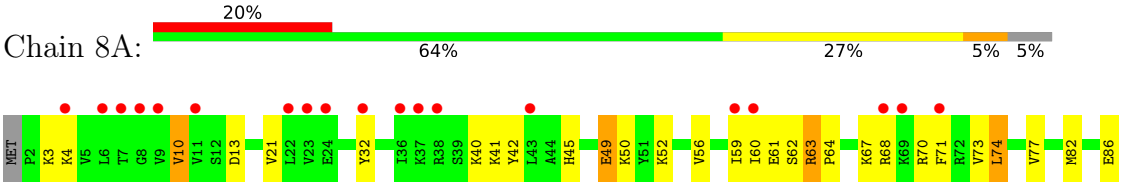
• Molecule 17: 30S ribosomal protein S17

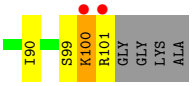
Chain 8I:



• Molecule 17: 30S ribosomal protein S17

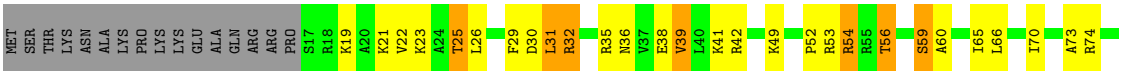
Chain 8A:





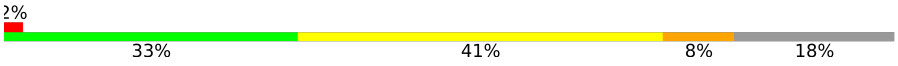
• Molecule 18: 30S ribosomal protein S18

Chain 9I:



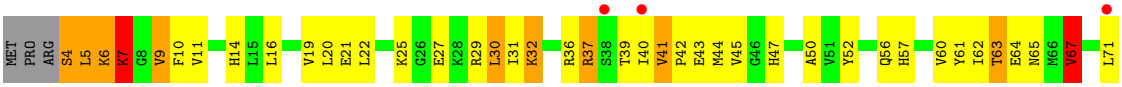
• Molecule 18: 30S ribosomal protein S18

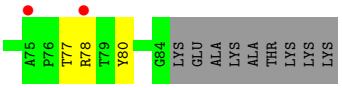
Chain 9A:



• Molecule 19: 30S ribosomal protein S19

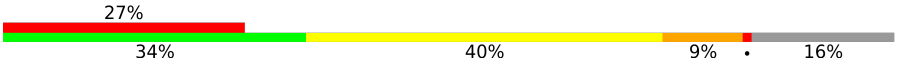
Chain AI:

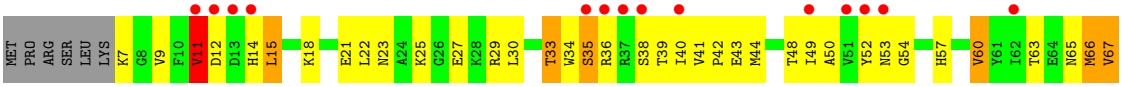


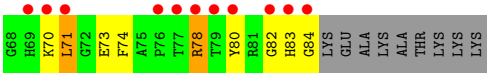


• Molecule 19: 30S ribosomal protein S19

Chain AA:

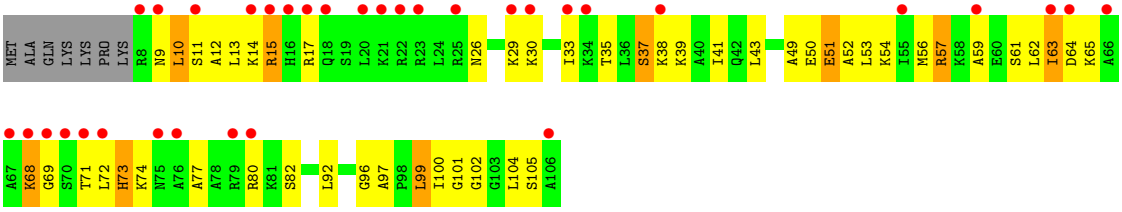




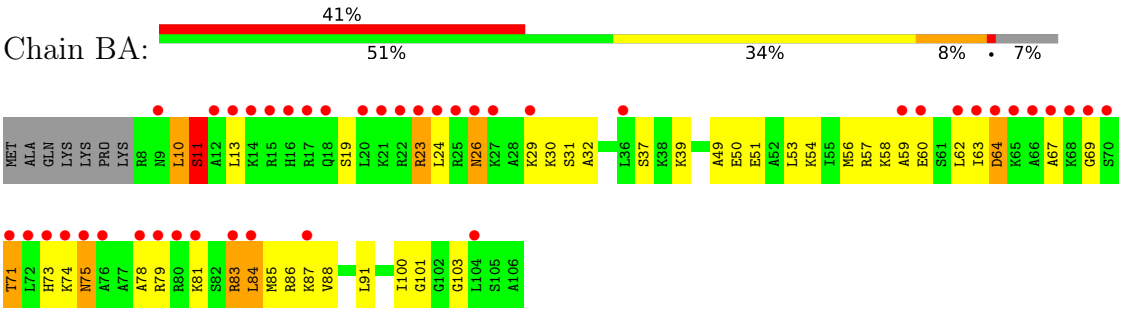


• Molecule 20: 30S ribosomal protein S20

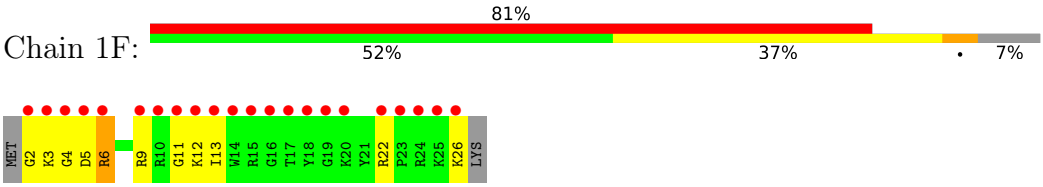
Chain BI:



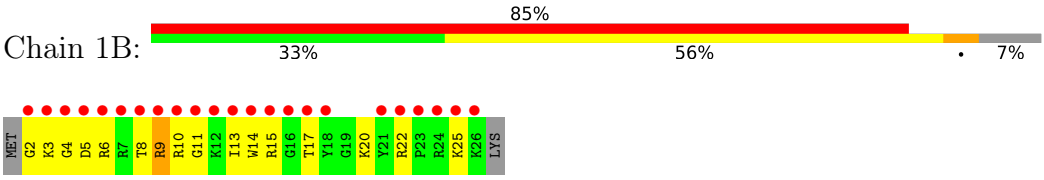
• Molecule 20: 30S ribosomal protein S20



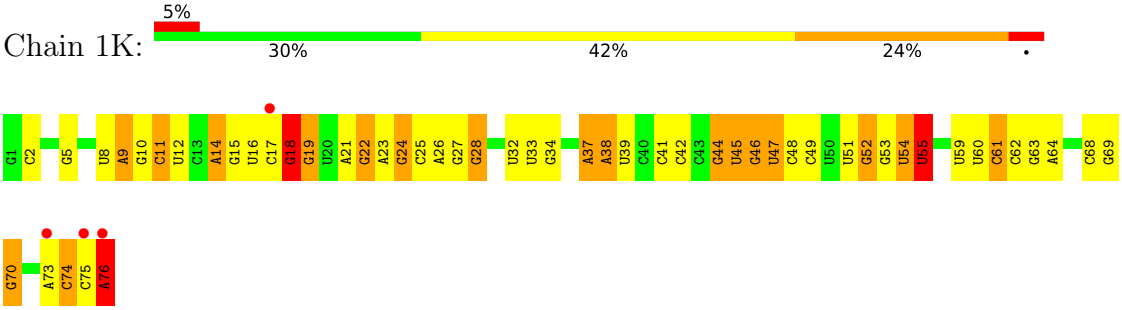
• Molecule 21: 30S ribosomal protein Thx



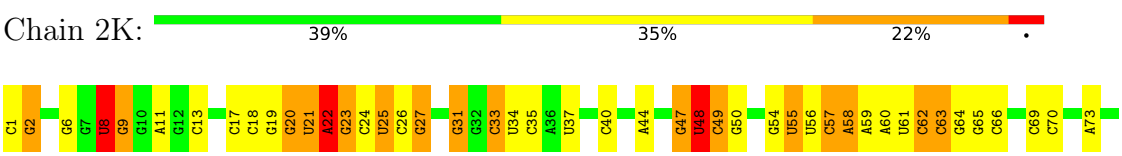
• Molecule 21: 30S ribosomal protein Thx



• Molecule 22: tRNA-Phe

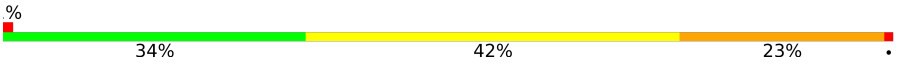


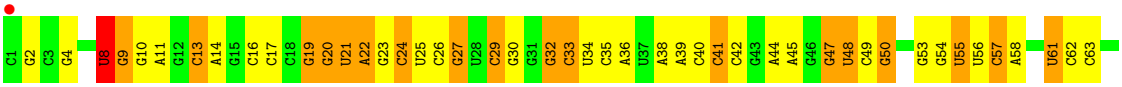
• Molecule 23: tRNA-fMet



• Molecule 23: tRNA-fMet

Chain 2L:





• Molecule 24: tRNA-Phe

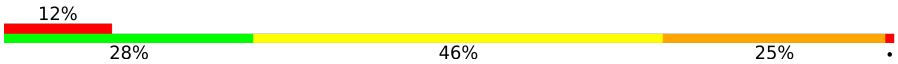
Chain 3K:

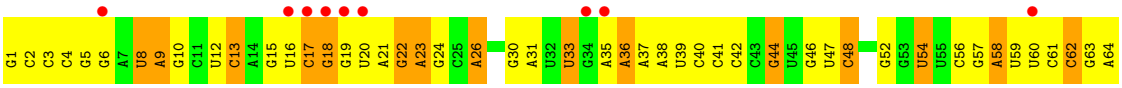
• Molecule 24: tRNA-Phe

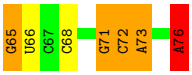
Chain 1L:

• Molecule 24: tRNA-Phe

Chain 3L:

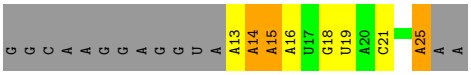






• Molecule 25: mRNA

Chain 4K:

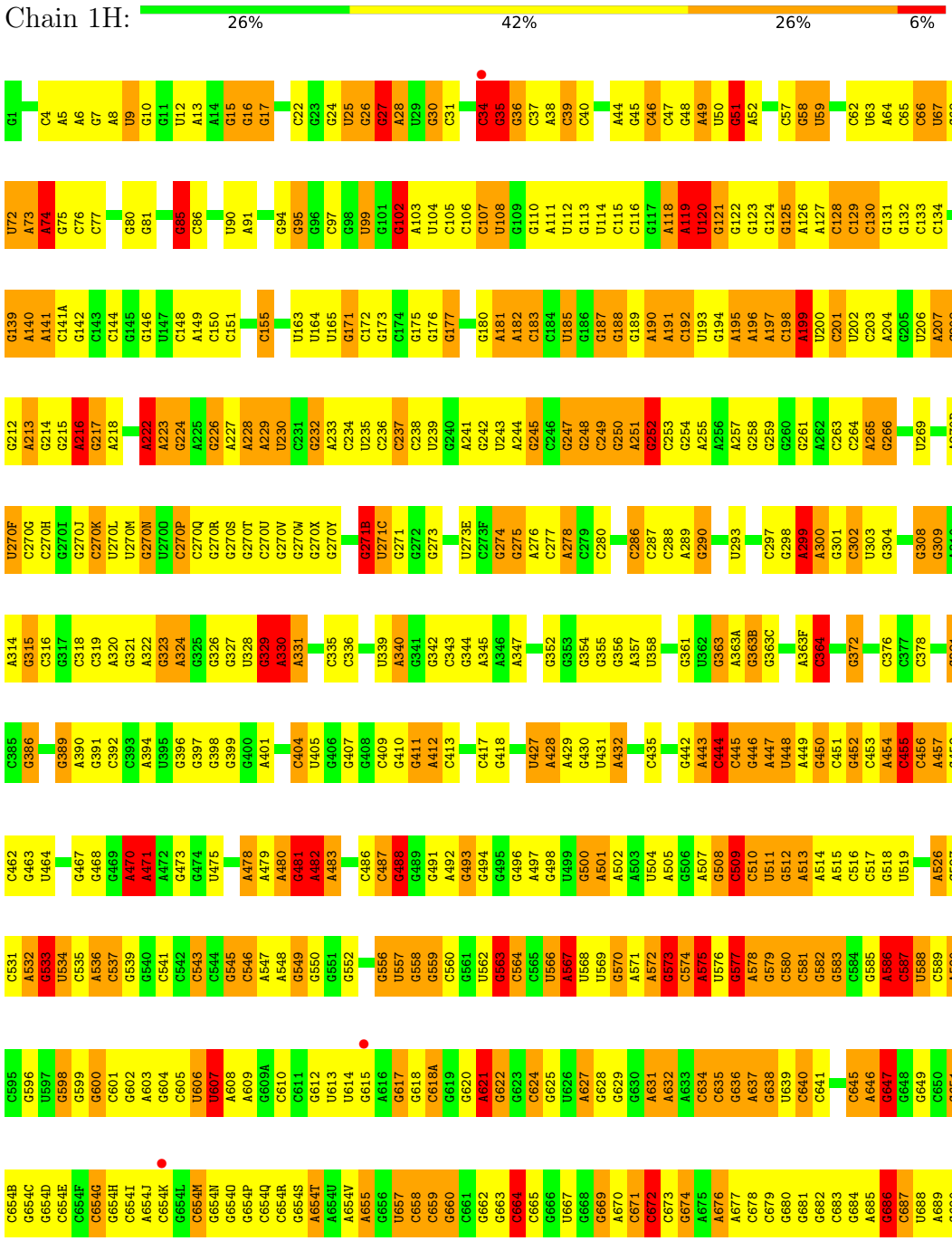


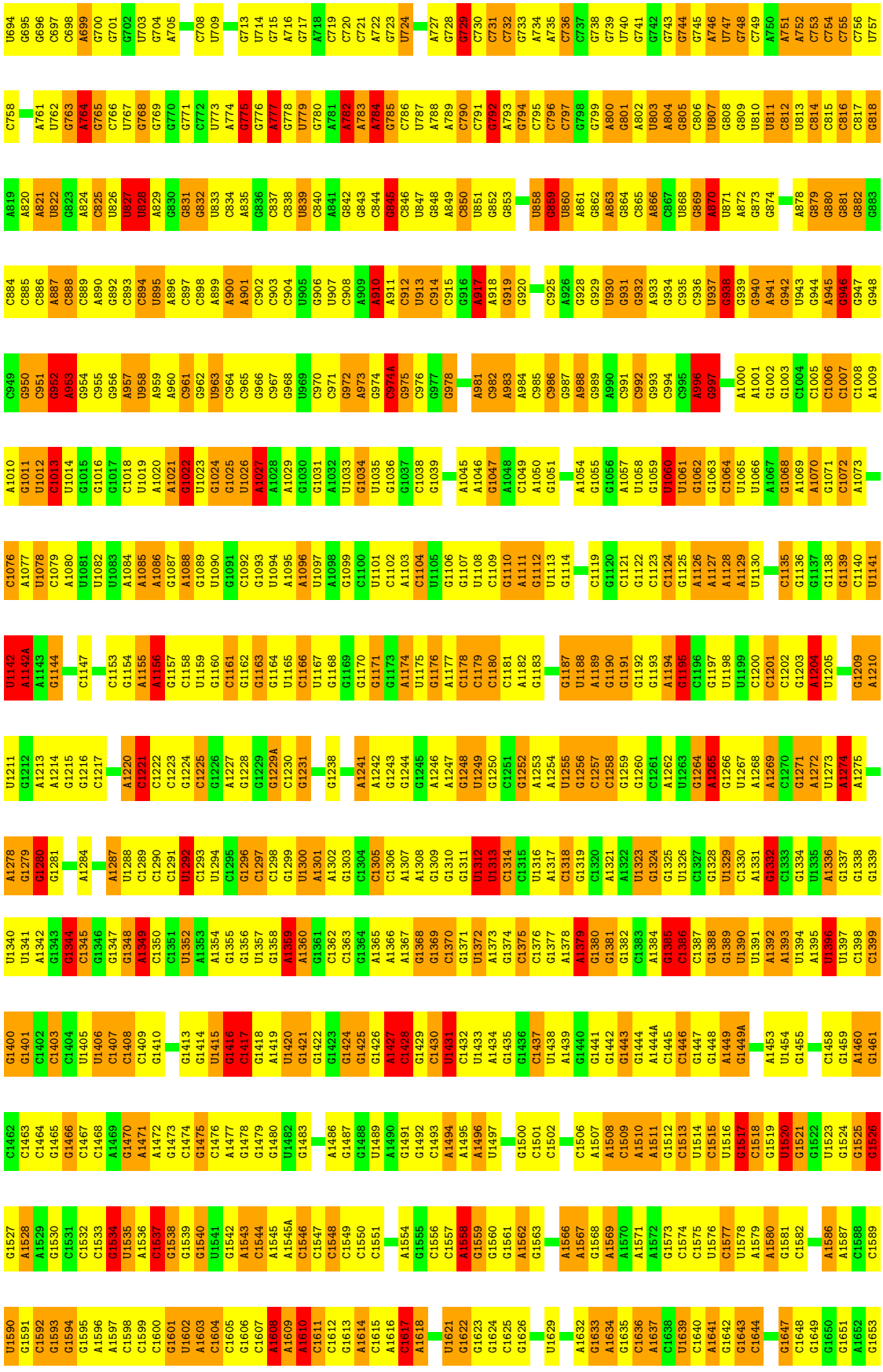
• Molecule 25: mRNA

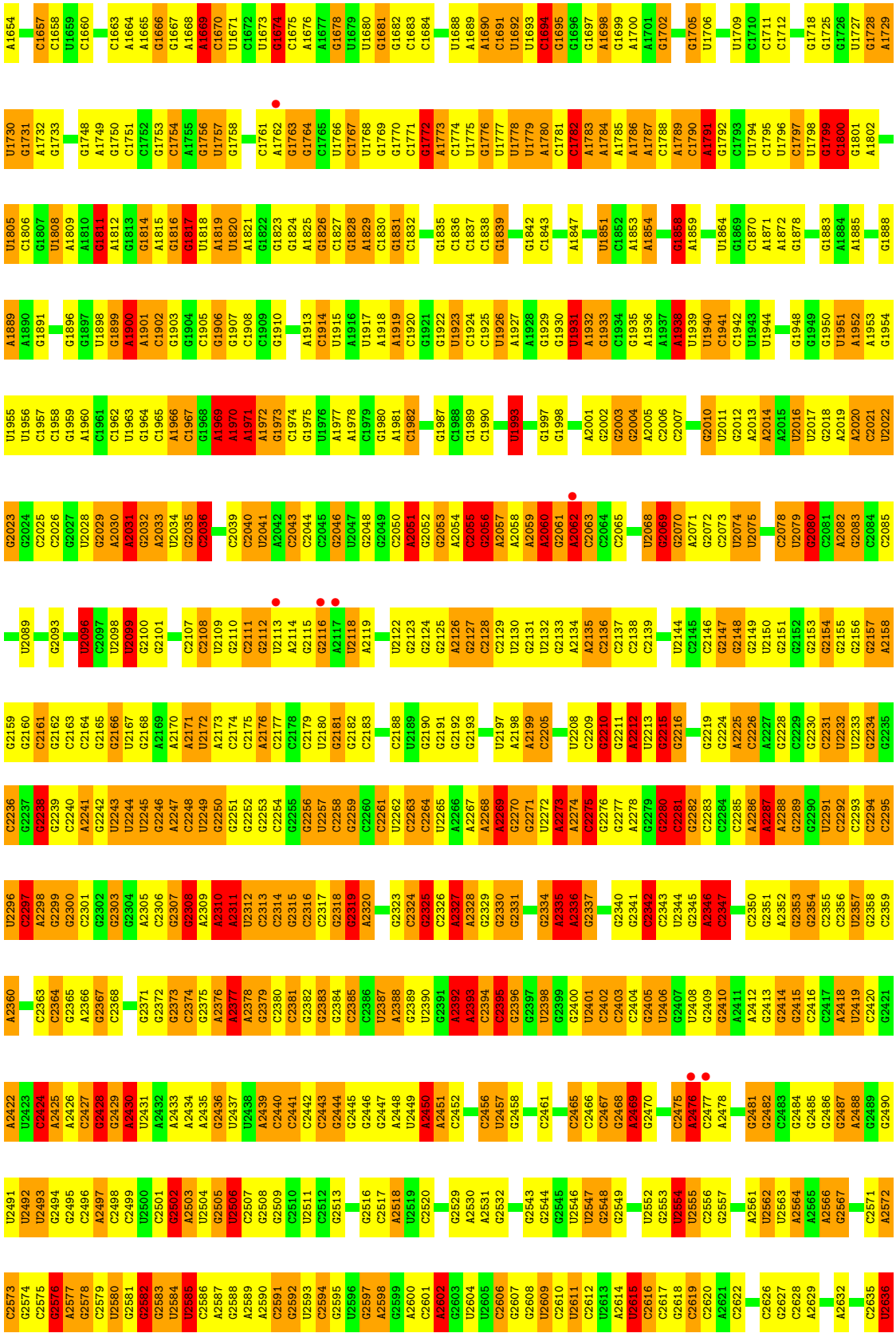
Chain 4L:

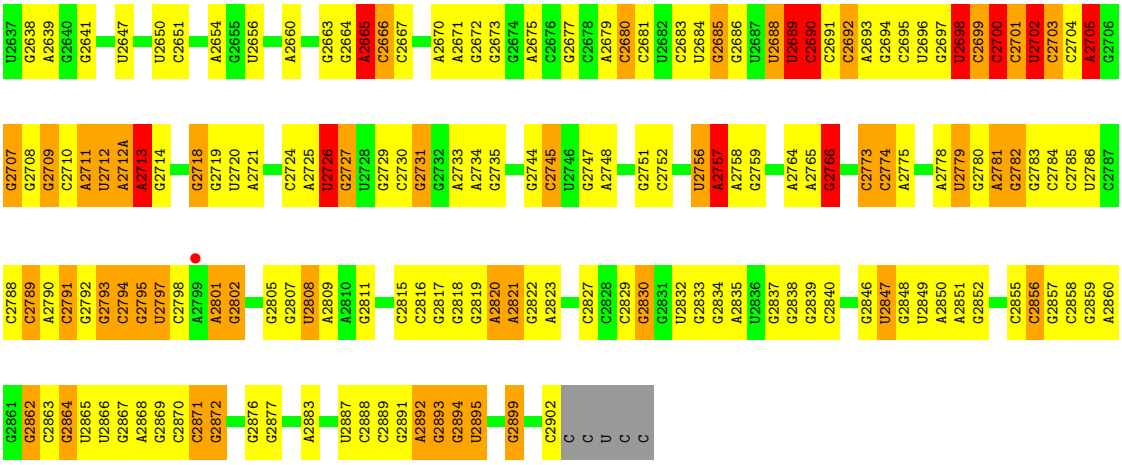
• Molecule 26: 23S ribosomal RNA

Chain 1H:



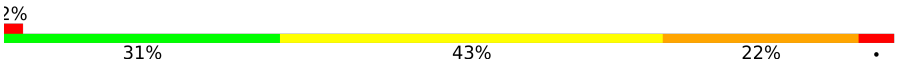


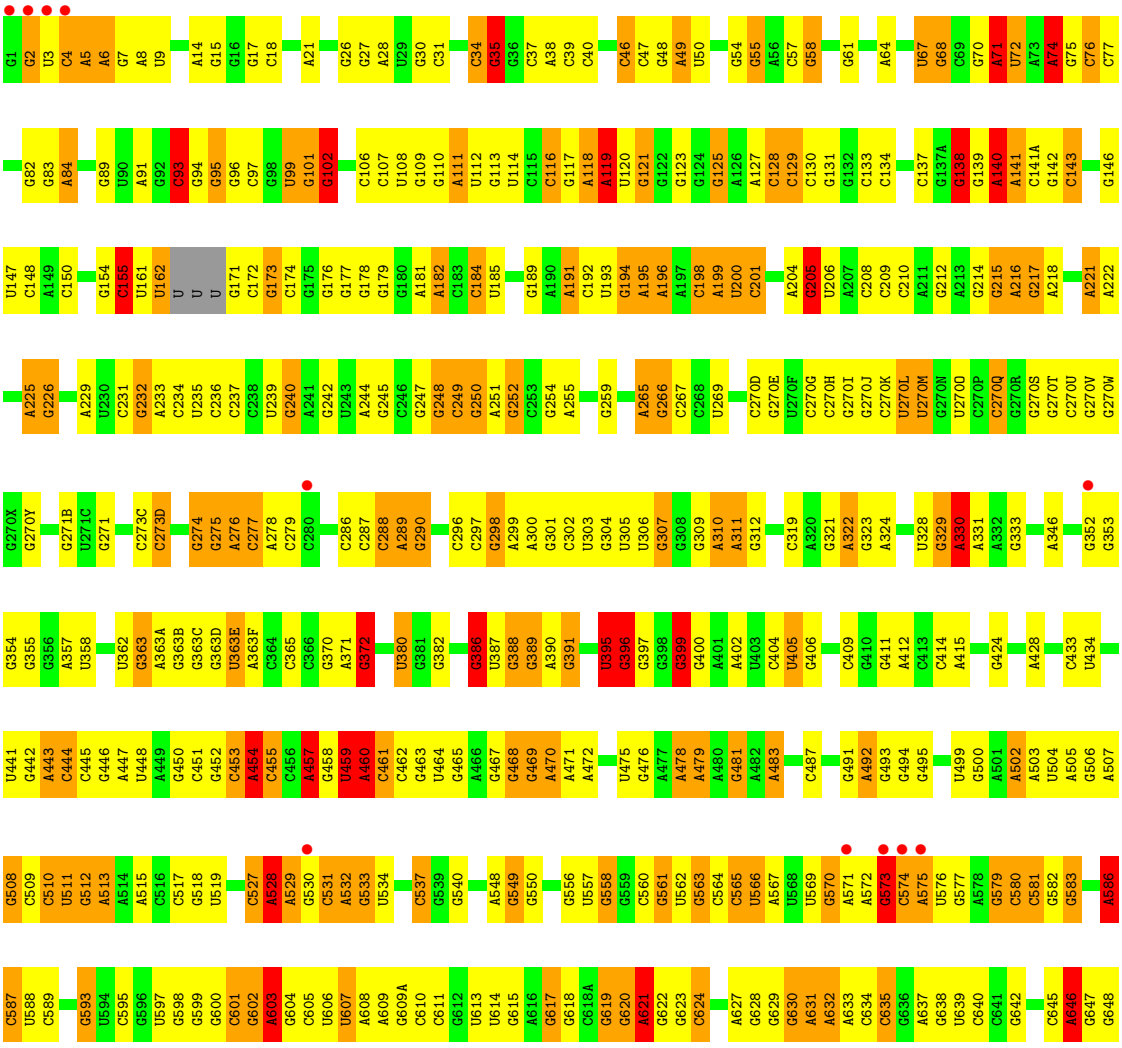


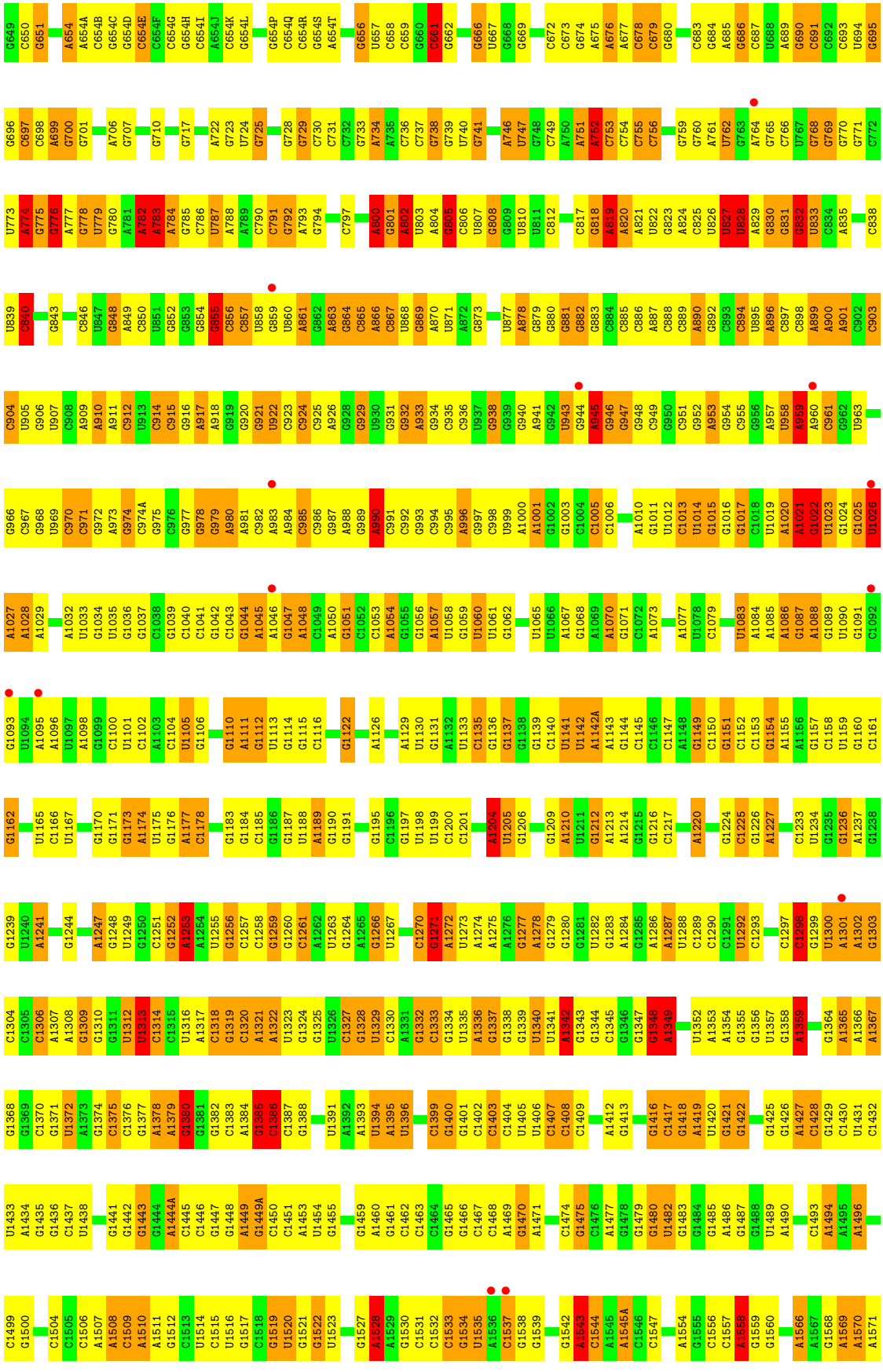


• Molecule 26: 23S ribosomal RNA

Chain 14:



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C904 U905 G906 U907 C908 A909 A910 A911 C912 U913 C914 C915 G916 A917 A918 G919 G920 G921 U922 C923 C924 C925 A926 G928 G929 U930 G931 G932 A933 G934 C935 C936 U937 G938 G939 G940 A941 G942 U943 G944 A945 G946 G947 G948 C949 G950 C951 G952 A953 G954 C955 G956 A957 U958 A959 A960 C961 G962 U963
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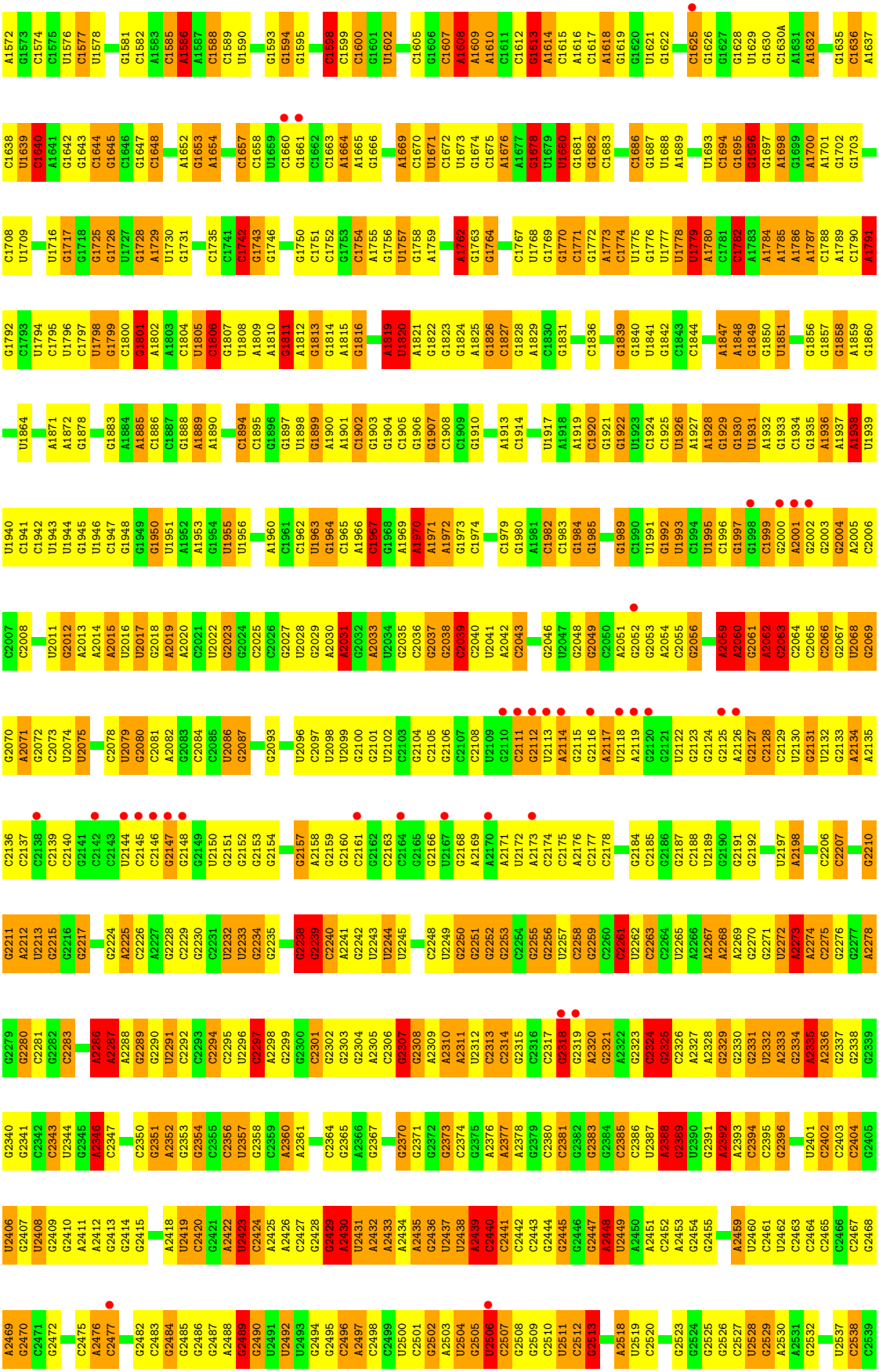
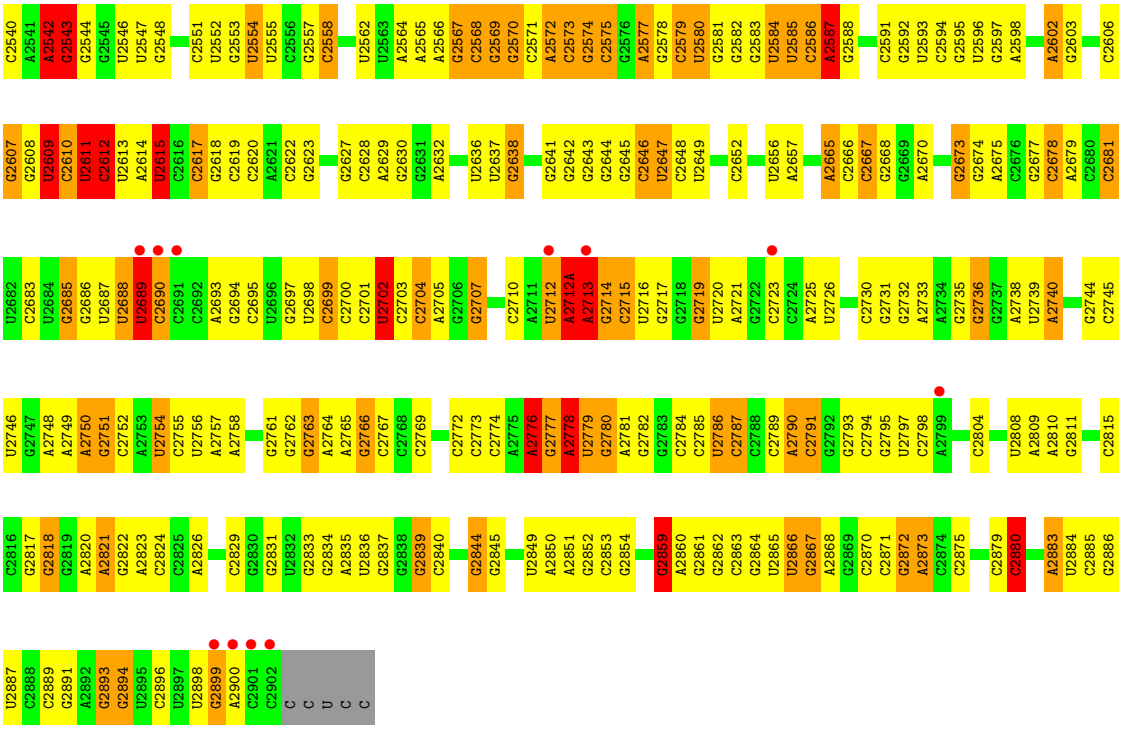
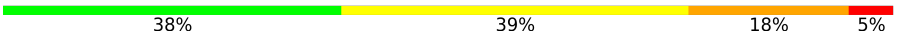
C1499 G1500 C1504 C1505 C1506 A1507 A1508 C1509 A1510 A1511 G1512 C1513 U1514 C1515 U1516 G1517 C1518 G1519 U1520 G1521 G1522 U1523 G1527 A1528 A1529 G1530 C1531 C1532 C1533 G1534 U1535 A1536 C1537 G1538 G1539 G1542 A1543 C1544 A1545 A1545A C1546 C1547 A1554 G1555 C1556 C1557 A1558 G1559 G1560 A1566 A1567 G1568 A1569 A1570 A1571

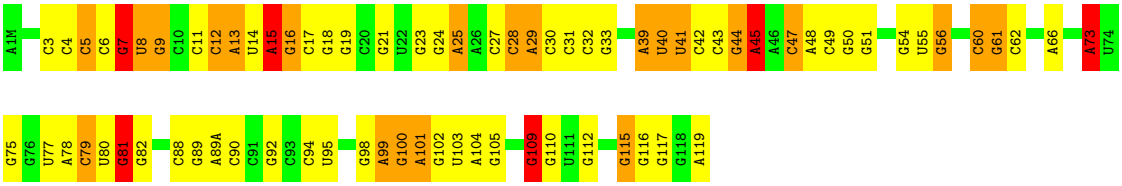




• Molecule 27: 5S ribosomal RNA

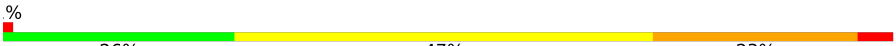
Chain 16:

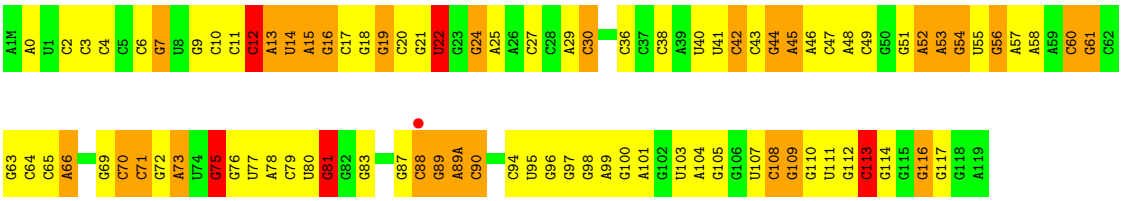




• Molecule 27: 5S ribosomal RNA

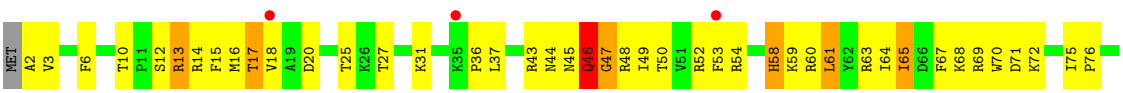
Chain 1J:

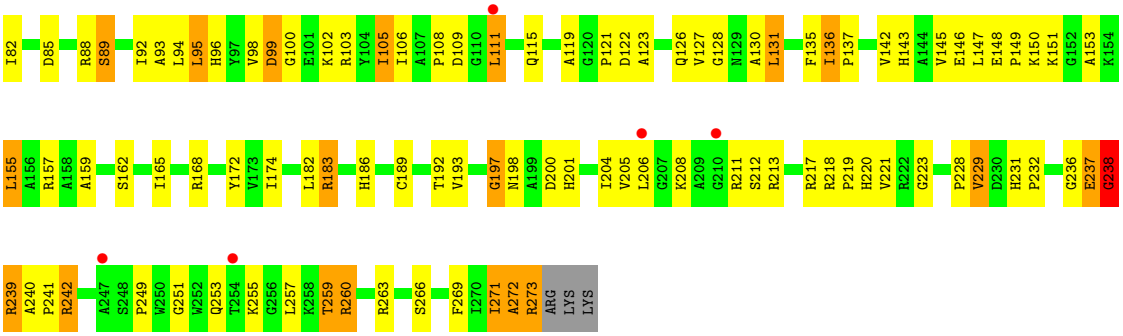




• Molecule 28: 50S ribosomal protein L2

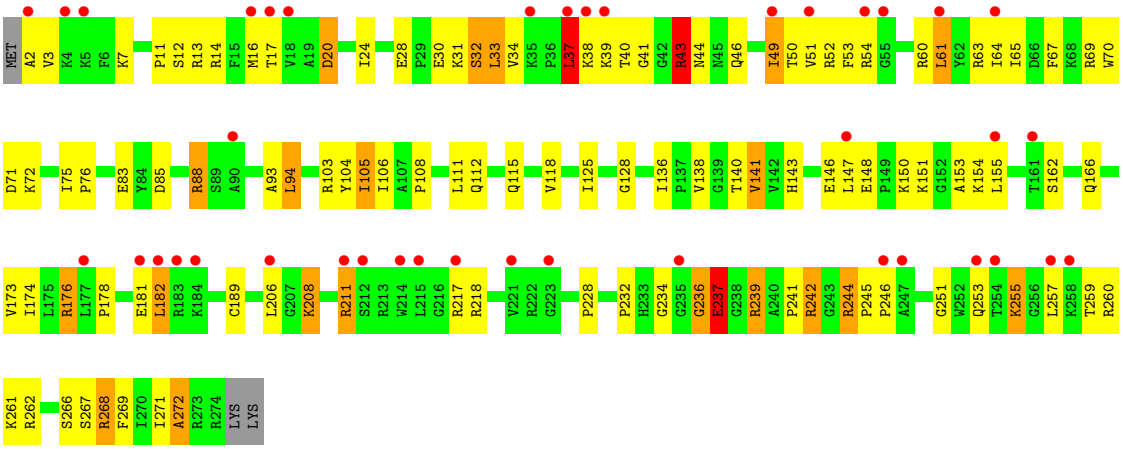
Chain 11:





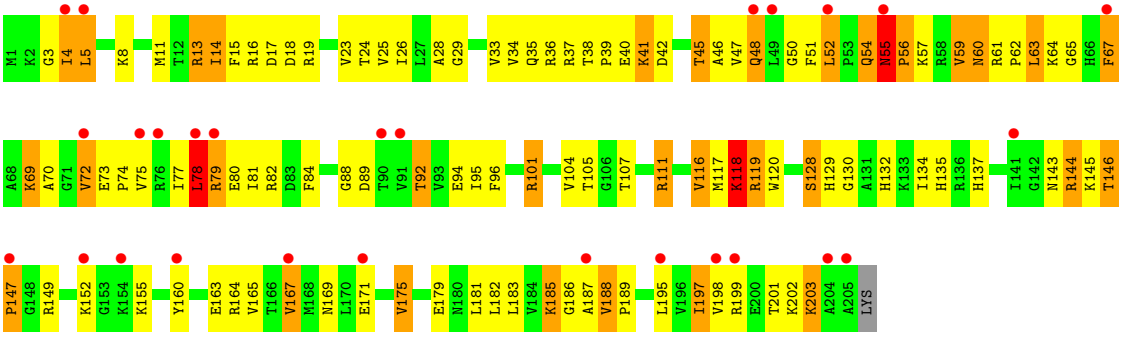
• Molecule 28: 50S ribosomal protein L2

Chain 19:



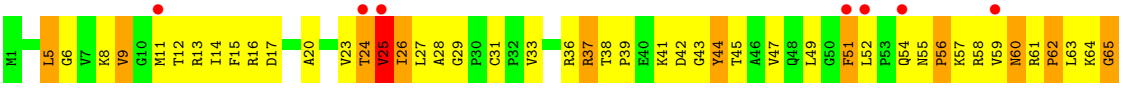
• Molecule 29: 50S ribosomal protein L3

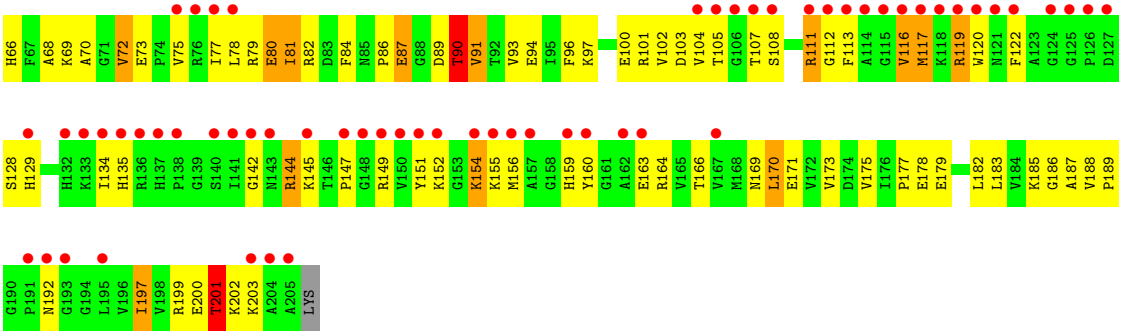
Chain 21:



• Molecule 29: 50S ribosomal protein L3

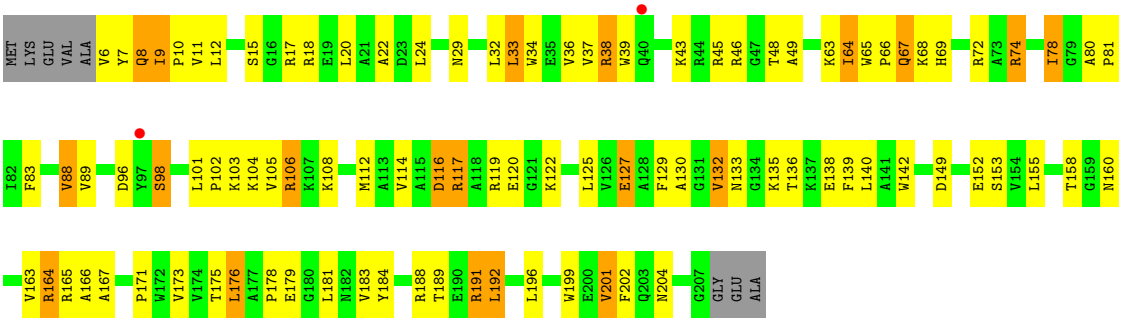
Chain 29:





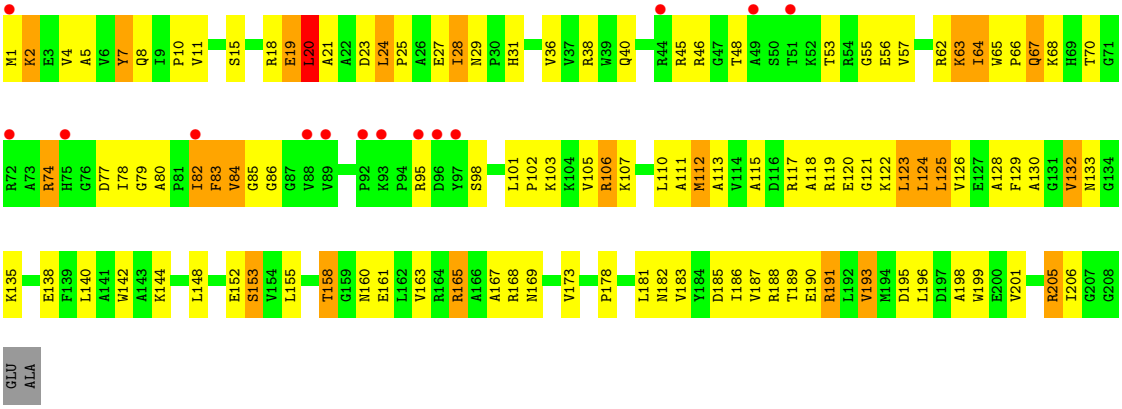
• Molecule 30: 50S ribosomal protein L4

Chain 31:



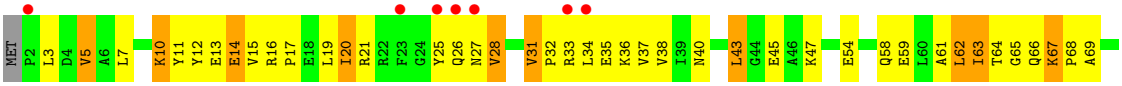
• Molecule 30: 50S ribosomal protein L4

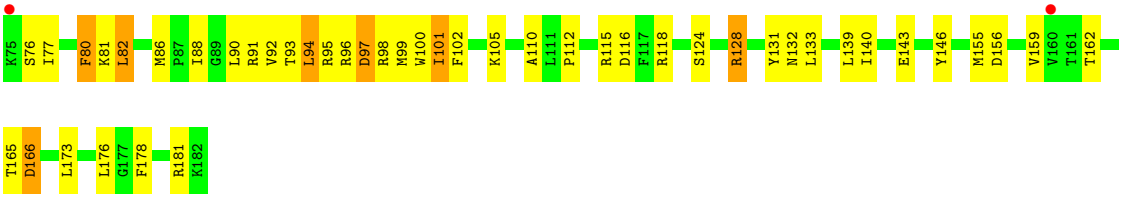
Chain 39:



• Molecule 31: 50S ribosomal protein L5

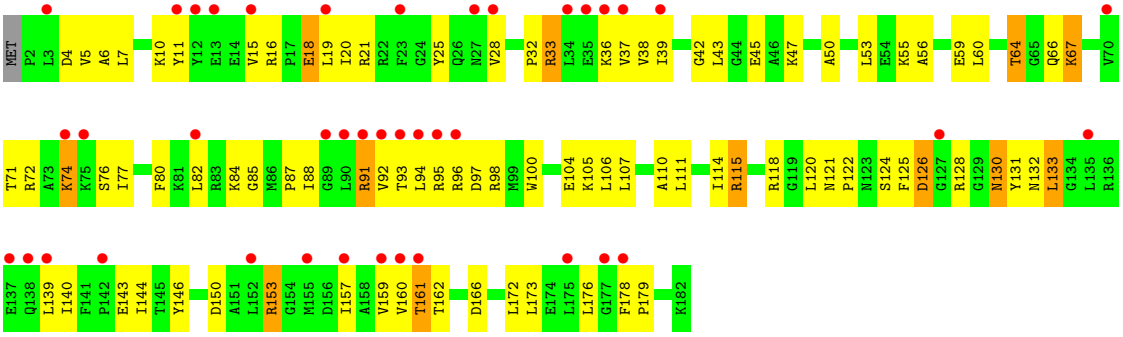
Chain 41:





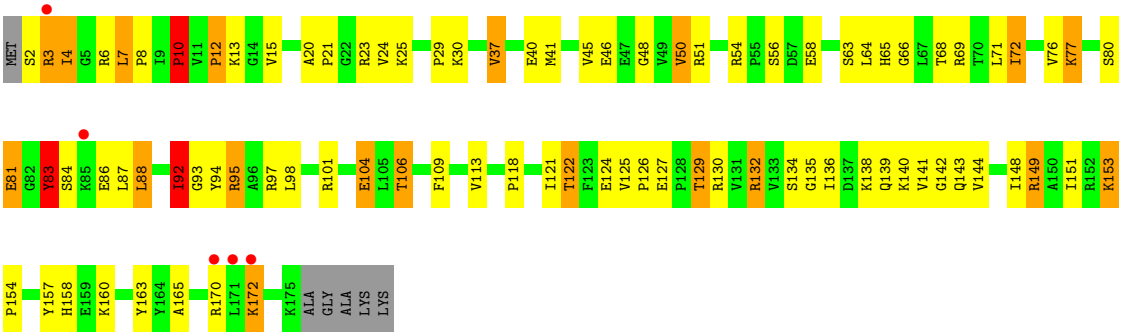
• Molecule 31: 50S ribosomal protein L5

Chain 49:



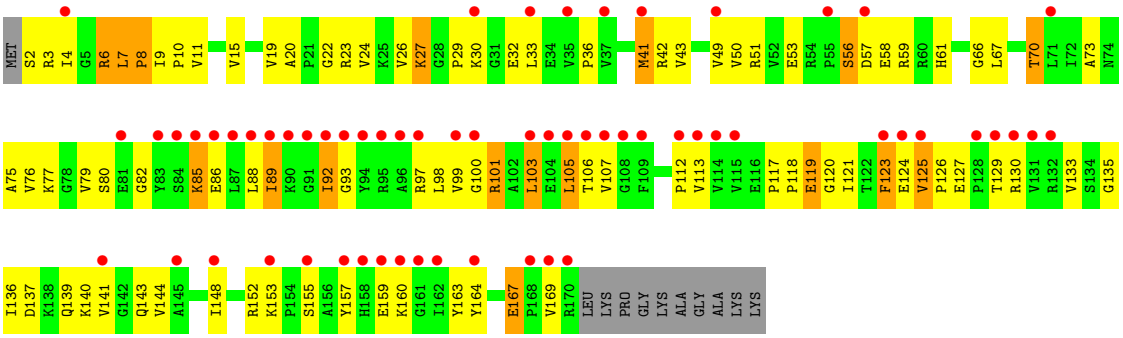
• Molecule 32: 50S ribosomal protein L6

Chain 51:



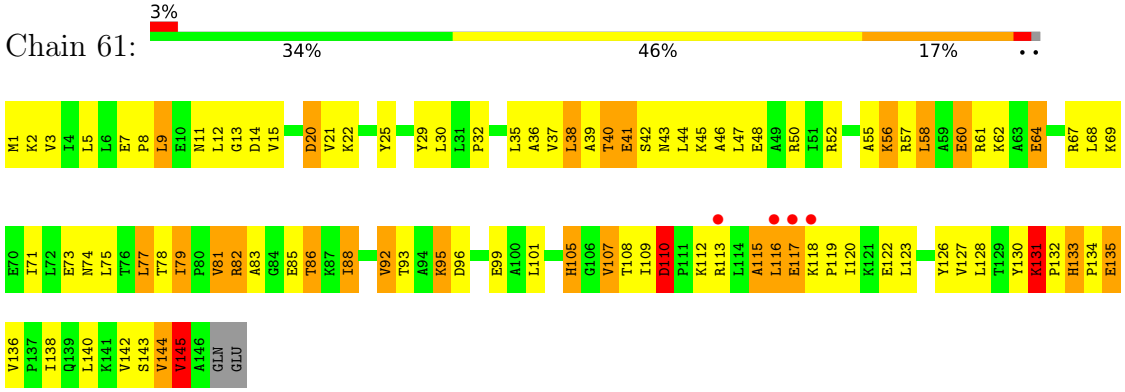
• Molecule 32: 50S ribosomal protein L6

Chain 59:



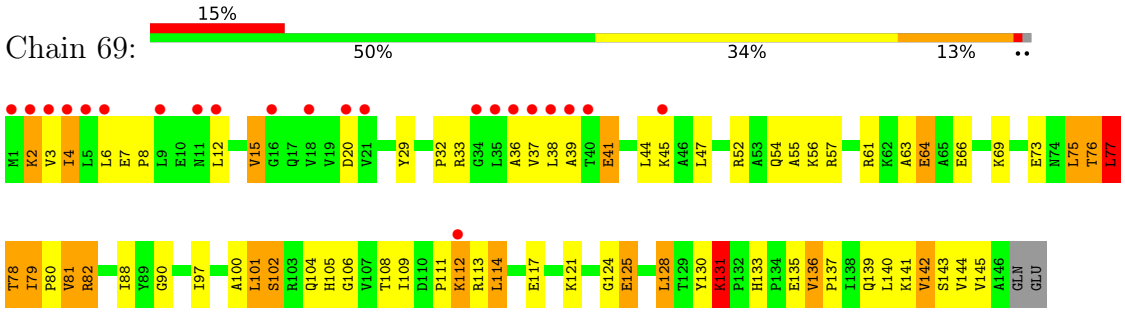
• Molecule 33: 50S ribosomal protein L9

Chain 61:



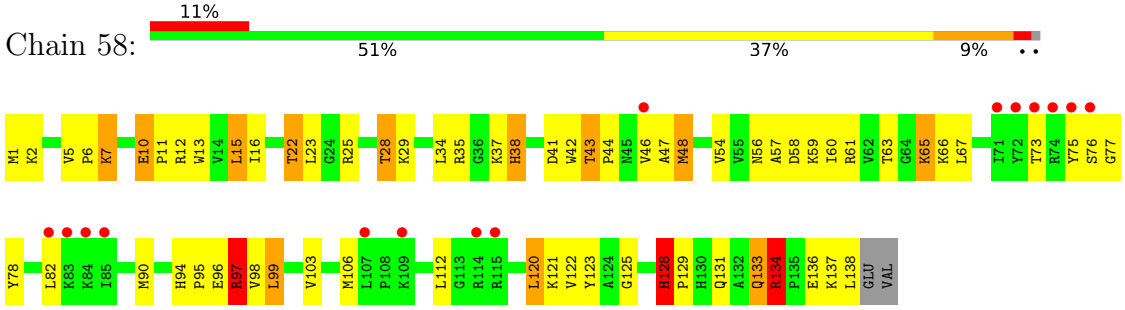
• Molecule 33: 50S ribosomal protein L9

Chain 69:



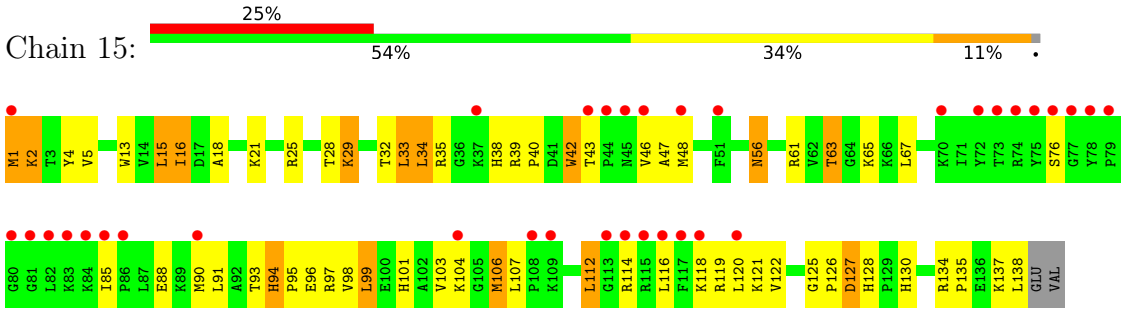
• Molecule 34: 50S ribosomal protein L13

Chain 58:



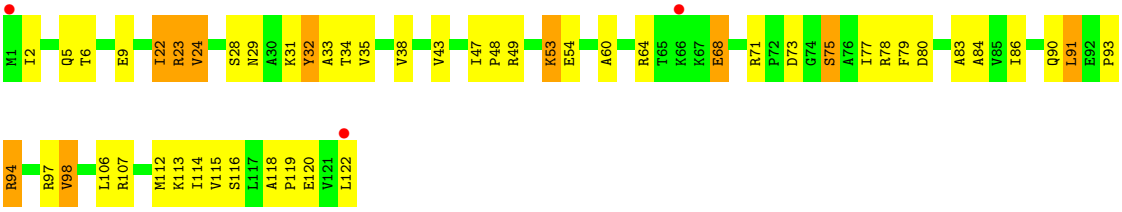
• Molecule 34: 50S ribosomal protein L13

Chain 15:

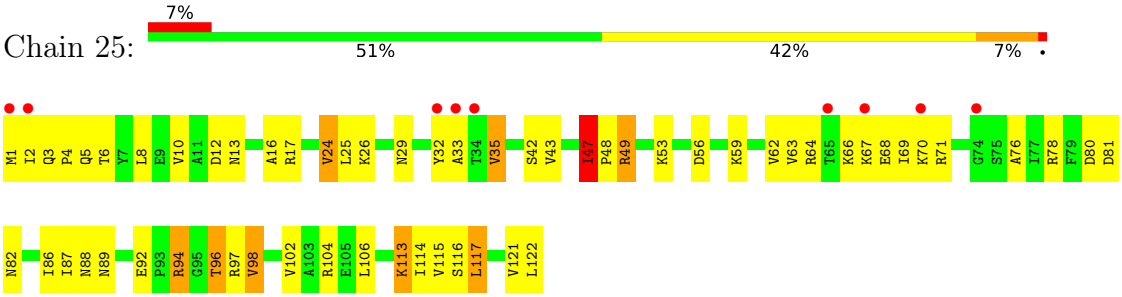


• Molecule 35: 50S ribosomal protein L14

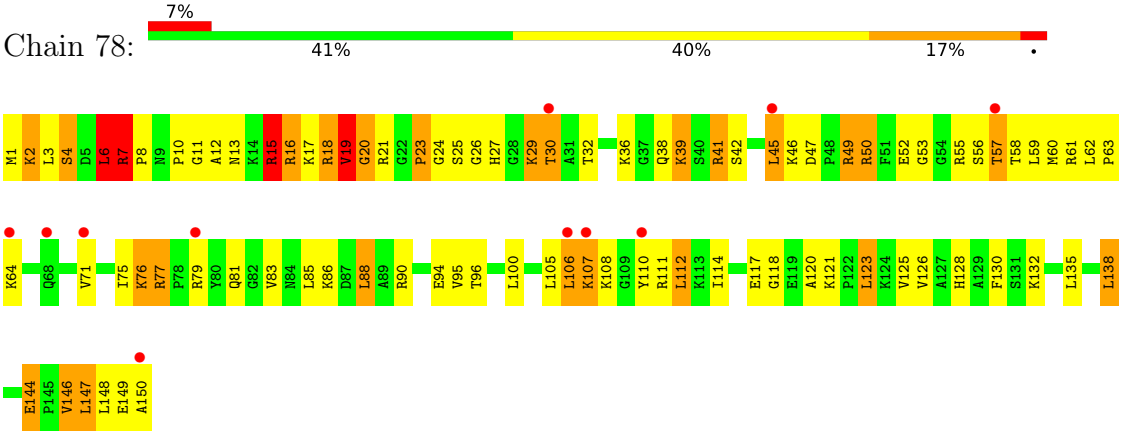
Chain 68:



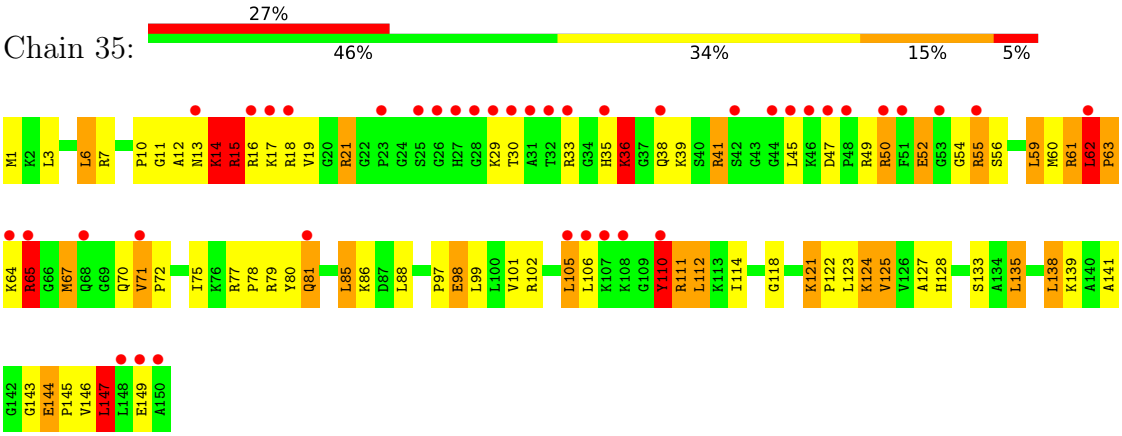
• Molecule 35: 50S ribosomal protein L14



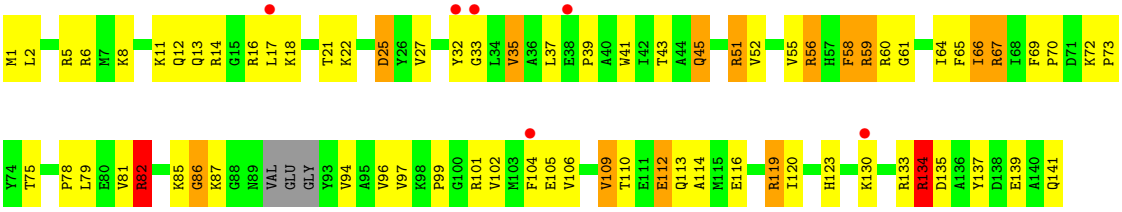
• Molecule 36: 50S ribosomal protein L15



• Molecule 36: 50S ribosomal protein L15

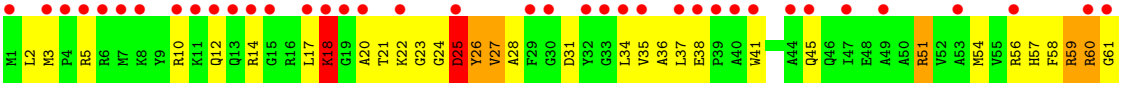


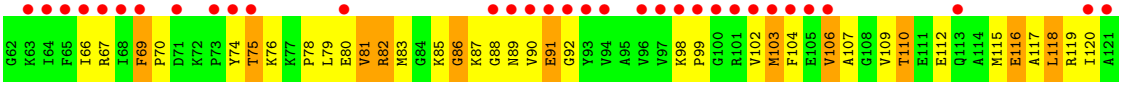
• Molecule 37: 50S ribosomal protein L16

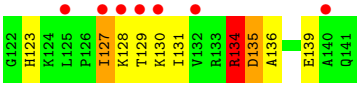


• Molecule 37: 50S ribosomal protein L16

Chain 45:

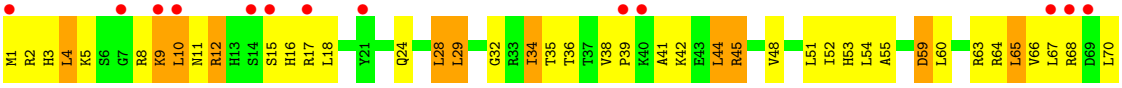






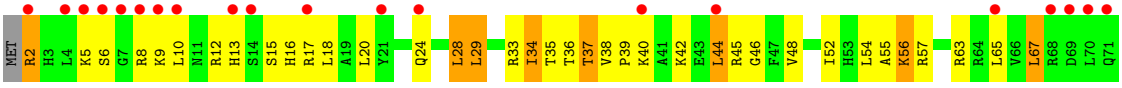
• Molecule 38: 50S ribosomal protein L17

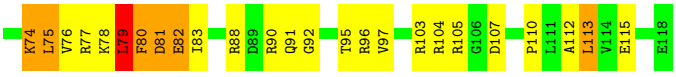
Chain 98:



• Molecule 38: 50S ribosomal protein L17

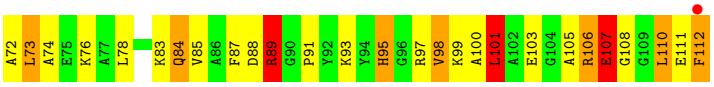
Chain 55:





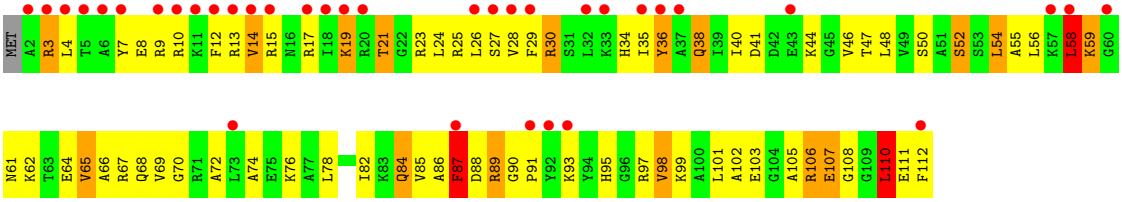
• Molecule 39: 50S ribosomal protein L18

Chain A8:



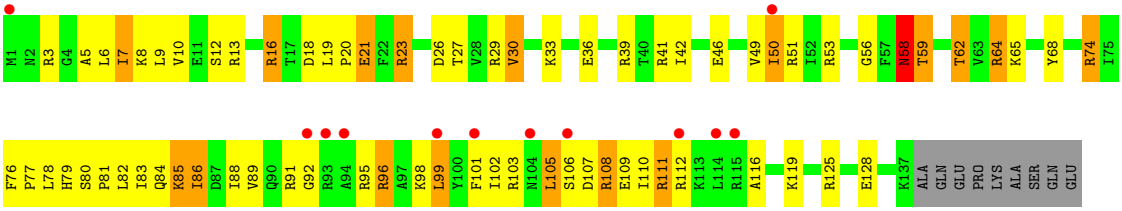
• Molecule 39: 50S ribosomal protein L18

Chain 65:



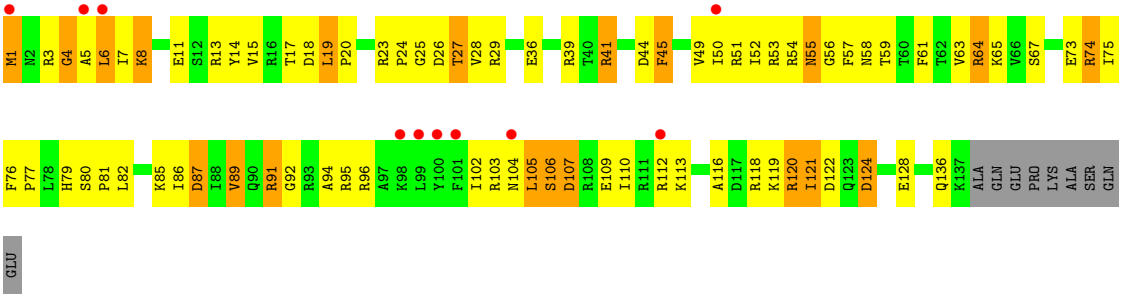
• Molecule 40: 50S ribosomal protein L19

Chain B8:



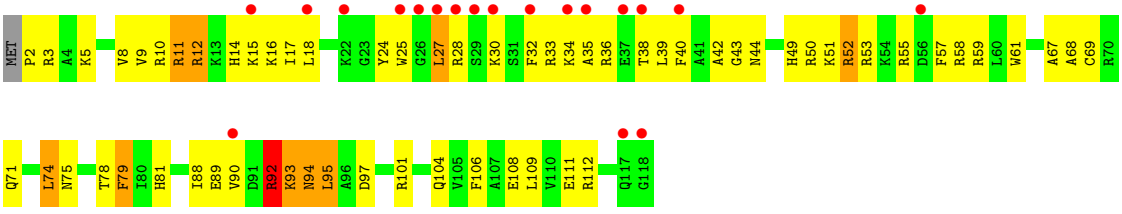
• Molecule 40: 50S ribosomal protein L19

Chain 75:



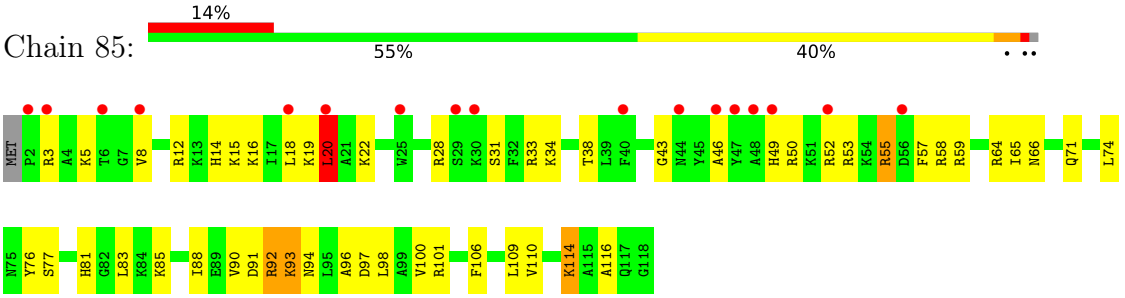
• Molecule 41: 50S ribosomal protein L20

Chain C8:



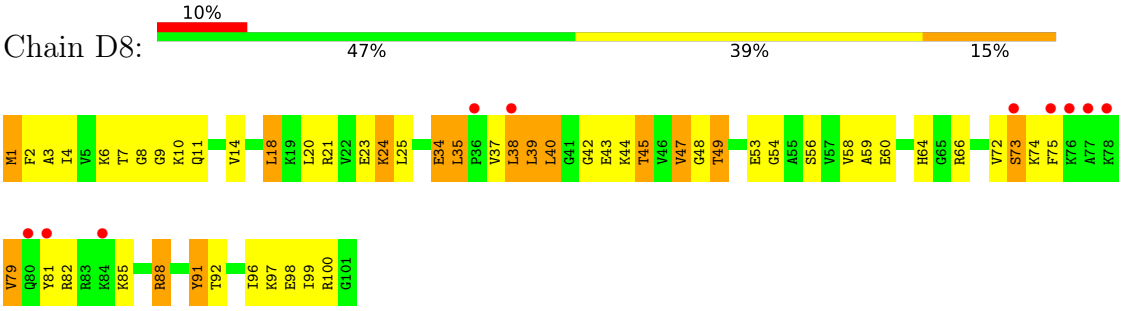
• Molecule 41: 50S ribosomal protein L20

Chain 85:



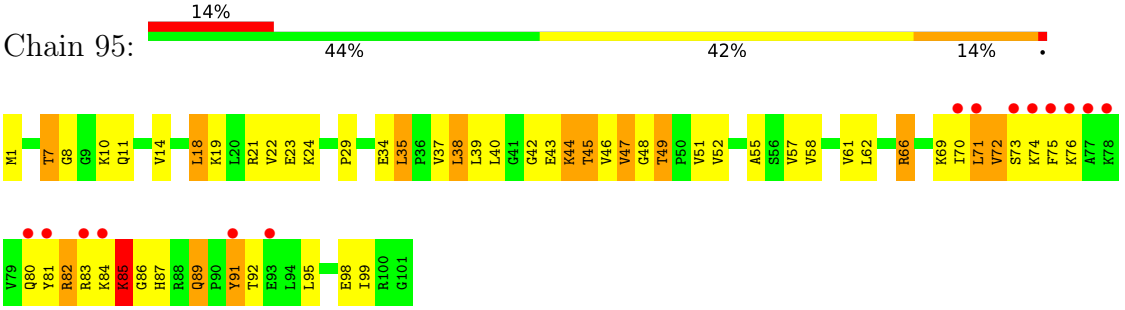
• Molecule 42: 50S ribosomal protein L21

Chain D8:



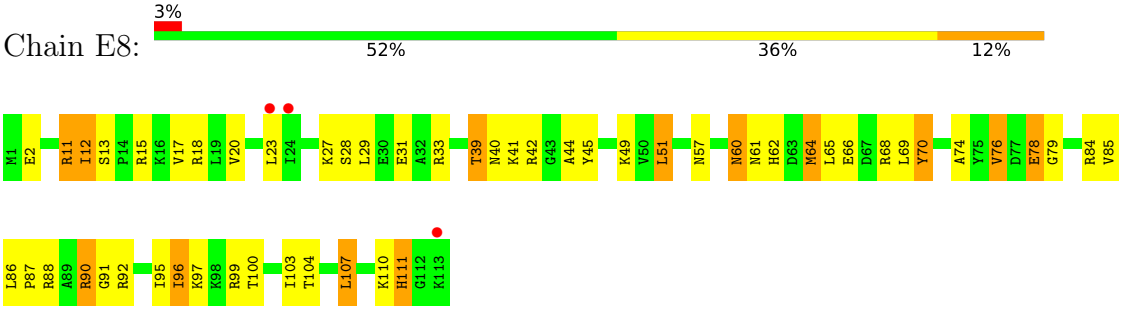
• Molecule 42: 50S ribosomal protein L21

Chain 95:



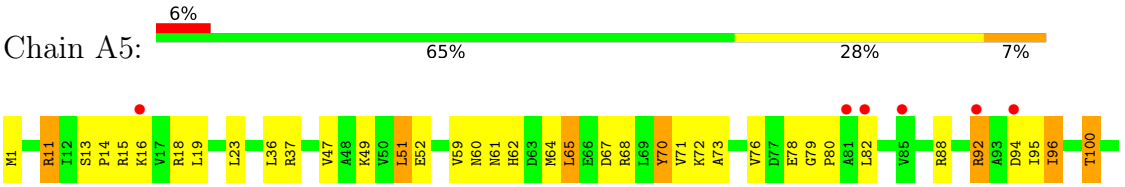
• Molecule 43: 50S ribosomal protein L22

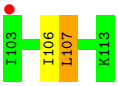
Chain E8:



• Molecule 43: 50S ribosomal protein L22

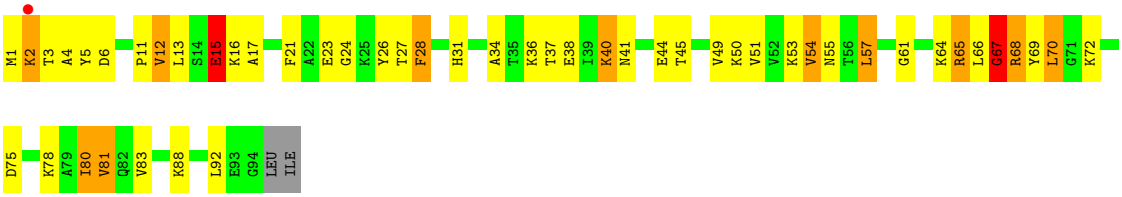
Chain A5:





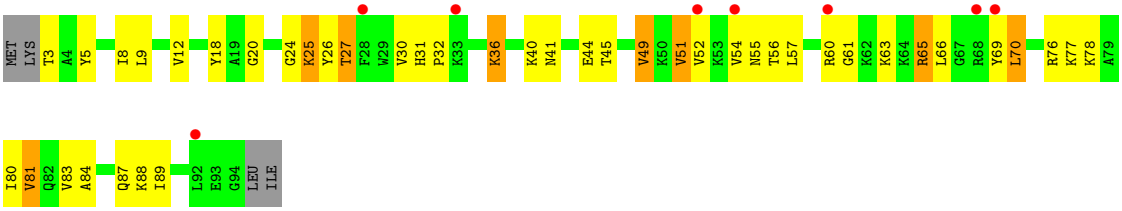
• Molecule 44: 50S ribosomal protein L23

Chain F8:



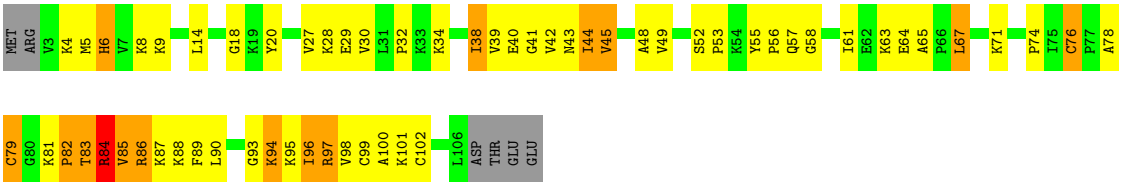
• Molecule 44: 50S ribosomal protein L23

Chain B5:



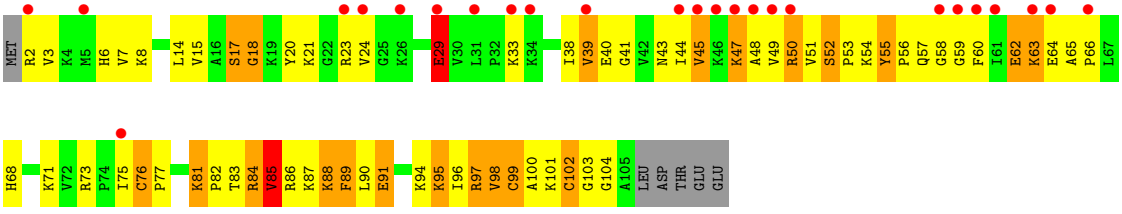
• Molecule 45: 50S ribosomal protein L24

Chain G8:



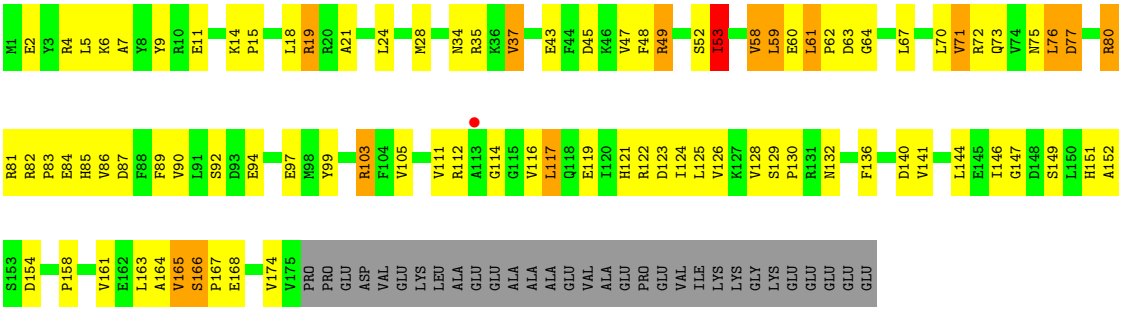
• Molecule 45: 50S ribosomal protein L24

Chain C5:



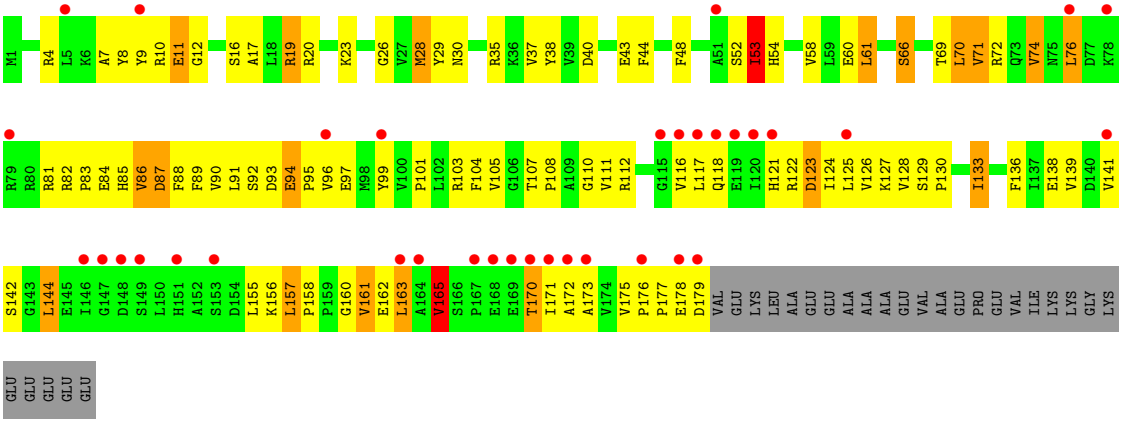
• Molecule 46: 50S ribosomal protein L25

Chain H8:



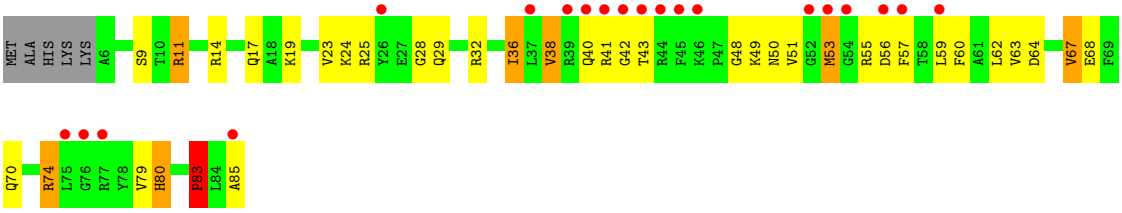
• Molecule 46: 50S ribosomal protein L25

Chain D5:



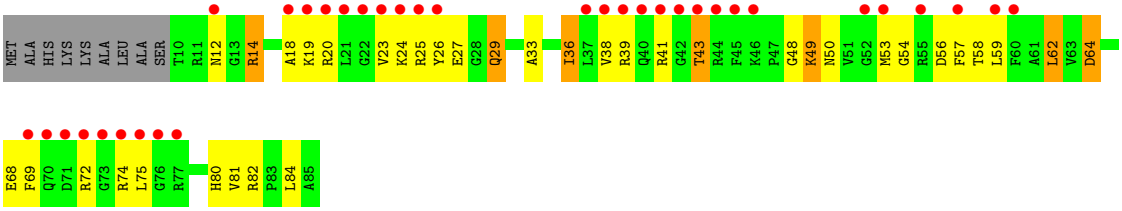
• Molecule 47: 50S ribosomal protein L27

Chain I8:



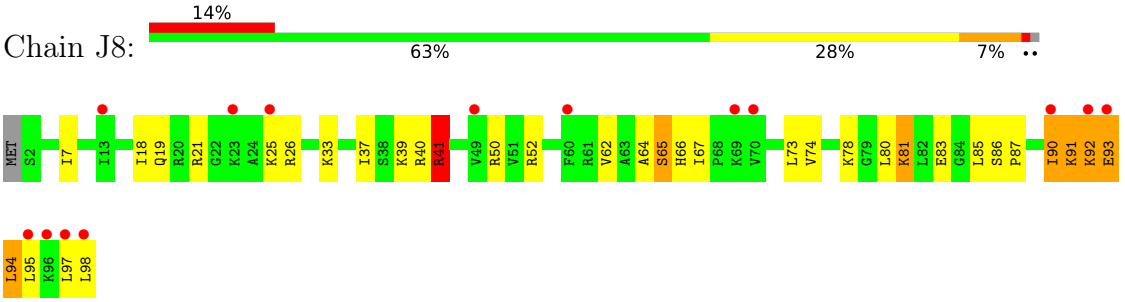
• Molecule 47: 50S ribosomal protein L27

Chain E5:



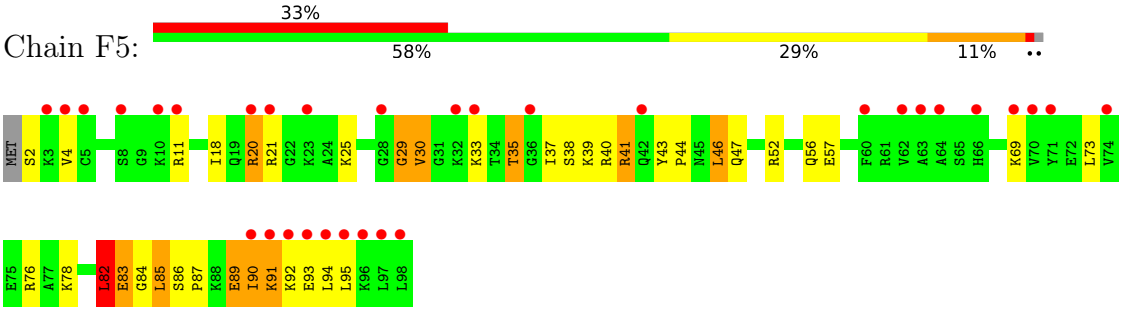
• Molecule 48: 50S ribosomal protein L28

Chain J8:



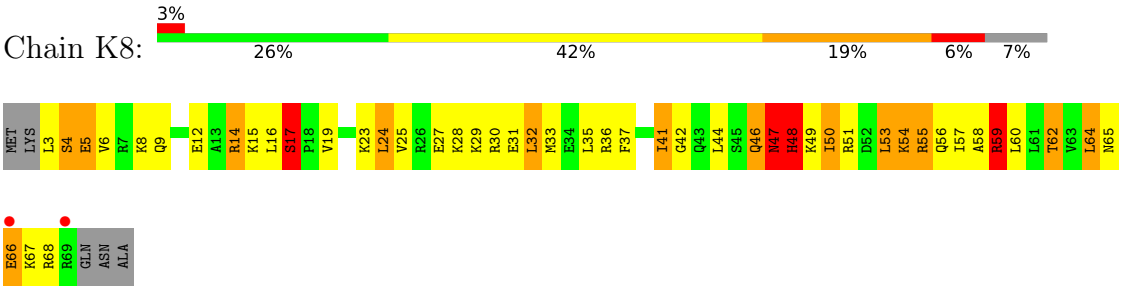
• Molecule 48: 50S ribosomal protein L28

Chain F5:



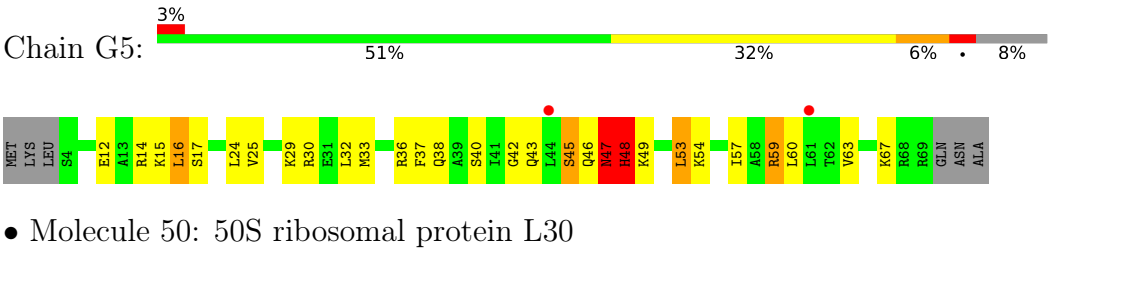
• Molecule 49: 50S ribosomal protein L29

Chain K8:



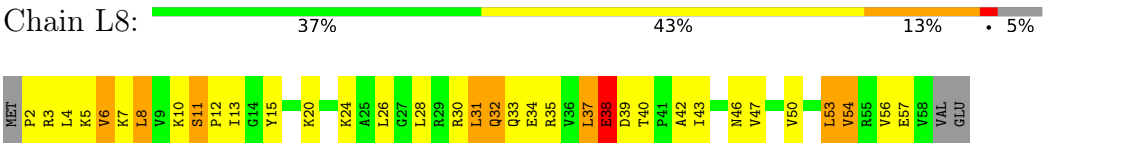
• Molecule 49: 50S ribosomal protein L29

Chain G5:



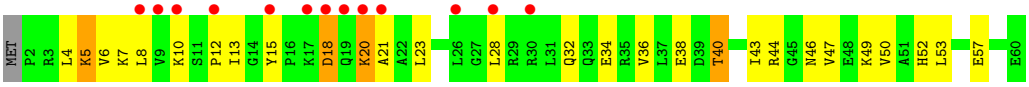
• Molecule 50: 50S ribosomal protein L30

Chain L8:



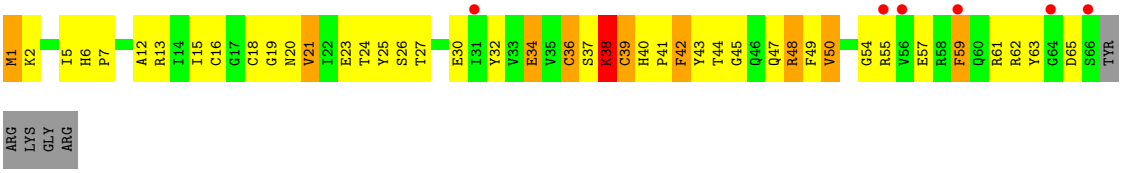
• Molecule 50: 50S ribosomal protein L30

Chain H5:



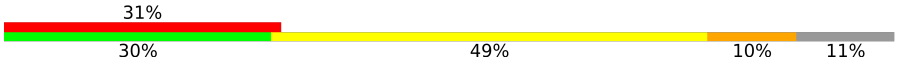
• Molecule 51: 50S ribosomal protein L31

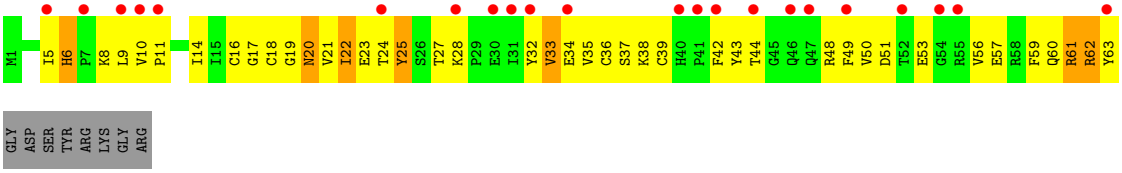
Chain M8:



• Molecule 51: 50S ribosomal protein L31

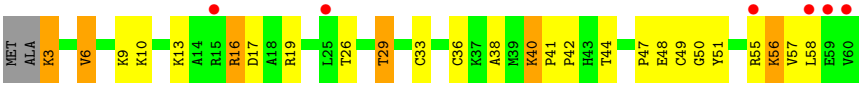
Chain I5:





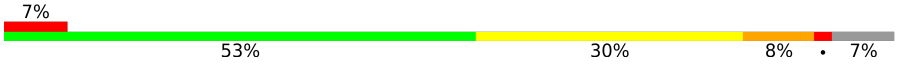
• Molecule 52: 50S ribosomal protein L32

Chain N8:



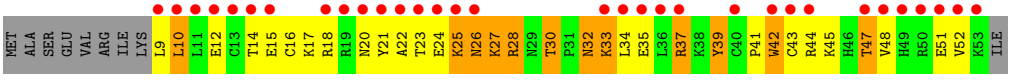
• Molecule 52: 50S ribosomal protein L32

Chain J5:



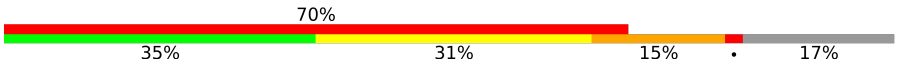
• Molecule 53: 50S ribosomal protein L33

Chain O8:



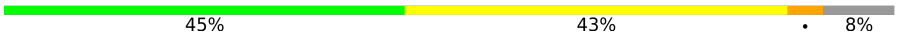
• Molecule 53: 50S ribosomal protein L33

Chain K5:



• Molecule 54: 50S ribosomal protein L34

Chain P8:

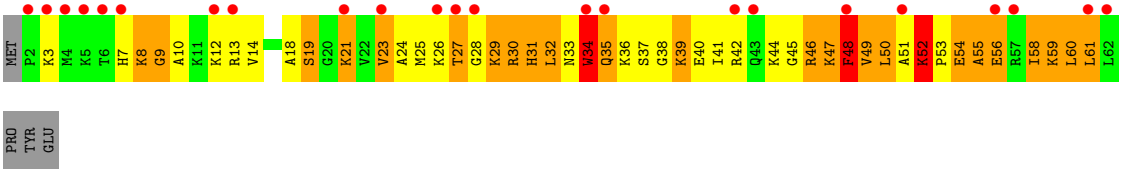


• Molecule 54: 50S ribosomal protein L34

Chain L5:

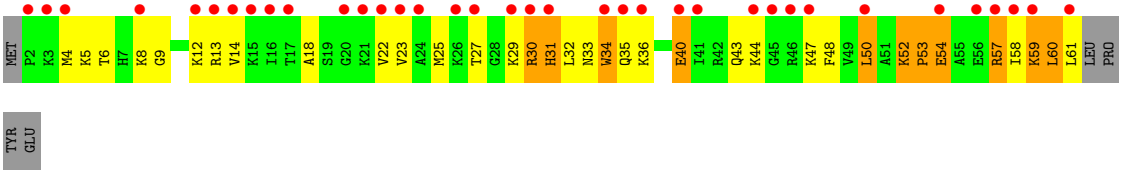
• Molecule 55: 50S ribosomal protein L35

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	209.90Å 447.90Å 621.50Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	188.03 – 3.05 223.95 – 3.05	Depositor EDS
% Data completeness (in resolution range)	99.8 (188.03-3.05) 91.4 (223.95-3.05)	Depositor EDS
R_{merge}	0.28	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.71 (at 3.07Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.199 , (Not available) 0.200 , 0.239	Depositor DCC
R_{free} test set	1998 reflections (0.18%)	wwPDB-VP
Wilson B-factor (Å^2)	95.1	Xtriage
Anisotropy	0.265	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 89.3	EDS
L-test for twinning[2]	$< \|L\| > = 0.45$, $< L^2 > = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.89	EDS
Total number of atoms	299951	wwPDB-VP
Average B, all atoms (Å^2)	128.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.50% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

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

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	0.77	9/36053 (0.0%)	1.46	483/56270 (0.9%)
1	1G	0.65	1/36025 (0.0%)	1.30	249/56227 (0.4%)
2	12	0.37	0/1959	0.58	1/2642 (0.0%)
2	1E	0.42	0/1959	0.65	0/2642
3	22	0.41	0/1636	0.60	0/2205
3	2E	0.52	0/1629	0.67	0/2195
4	32	0.50	0/1732	0.73	1/2318 (0.0%)
4	3E	0.65	2/1732 (0.1%)	0.76	1/2318 (0.0%)
5	42	0.47	0/1171	0.74	0/1576
5	4E	0.55	0/1171	0.76	1/1576 (0.1%)
6	52	0.48	0/855	0.65	0/1154
6	5E	0.58	0/855	0.70	0/1154
7	62	0.42	0/1275	0.60	0/1709
7	6E	0.46	0/1275	0.59	0/1709
8	72	0.39	0/1135	0.60	0/1527
8	7E	0.51	0/1135	0.72	0/1527
9	82	0.39	0/1028	0.59	0/1379
9	8E	0.48	0/1028	0.72	1/1379 (0.1%)
10	1A	0.38	0/814	0.60	0/1095
10	1I	0.46	0/814	0.66	0/1095
11	2A	0.46	0/879	0.65	0/1187
11	2I	0.51	0/879	0.78	0/1187
12	3A	0.54	0/991	0.76	0/1327
12	3I	0.71	0/991	0.92	0/1327
13	4A	0.36	0/943	0.59	0/1265
13	4I	0.51	0/948	0.69	0/1272
14	5A	0.43	0/484	0.65	0/643
14	5I	0.71	1/500 (0.2%)	0.79	0/664
15	6A	0.47	0/744	0.62	1/992 (0.1%)
15	6I	0.54	0/744	0.78	0/992
16	7A	0.47	0/721	0.69	0/970
16	7I	0.48	0/721	0.72	0/970

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	8A	0.52	1/847 (0.1%)	0.64	0/1131
17	8I	0.57	0/847	0.74	0/1131
18	9A	0.51	0/595	0.77	0/790
18	9I	0.56	0/595	0.78	0/790
19	AA	0.40	0/638	0.63	0/860
19	AI	0.58	0/661	0.79	0/890
20	BA	0.48	0/764	0.76	0/1007
20	BI	0.45	0/764	0.70	0/1007
21	1B	0.44	0/221	0.64	0/288
21	1F	0.50	0/221	0.73	0/288
22	1K	0.51	0/1647	1.15	10/2565 (0.4%)
23	2K	1.12	6/1721 (0.3%)	1.64	40/2682 (1.5%)
23	2L	0.99	6/1721 (0.3%)	1.42	20/2682 (0.7%)
24	1L	0.44	0/1809	0.98	4/2819 (0.1%)
24	3K	0.49	1/1809 (0.1%)	1.17	14/2819 (0.5%)
24	3L	0.49	0/1809	1.11	11/2819 (0.4%)
25	4K	0.92	0/316	1.49	5/490 (1.0%)
25	4L	0.80	0/215	1.52	3/330 (0.9%)
26	14	0.91	64/70167 (0.1%)	1.65	1671/109541 (1.5%)
26	1H	1.09	145/70233 (0.2%)	1.89	2868/109643 (2.6%)
27	16	0.92	3/2928 (0.1%)	1.67	74/4568 (1.6%)
27	1J	0.75	0/2928	1.36	17/4568 (0.4%)
28	11	0.84	1/2165 (0.0%)	1.04	7/2919 (0.2%)
28	19	0.71	0/2170	0.96	4/2926 (0.1%)
29	21	0.68	0/1601	0.91	0/2160
29	29	0.69	0/1601	0.97	2/2160 (0.1%)
30	31	0.77	0/1620	0.97	2/2194 (0.1%)
30	39	0.61	0/1662	0.84	1/2249 (0.0%)
31	41	0.58	0/1498	0.83	1/2016 (0.0%)
31	49	0.41	0/1498	0.63	0/2016
32	51	0.66	0/1362	0.87	2/1841 (0.1%)
32	59	0.37	0/1324	0.63	0/1791
33	61	0.56	0/1151	0.79	2/1558 (0.1%)
33	69	0.47	0/1151	0.73	2/1558 (0.1%)
34	15	0.62	1/1131 (0.1%)	0.86	5/1525 (0.3%)
34	58	0.65	0/1131	0.86	3/1525 (0.2%)
35	25	0.64	0/942	0.77	0/1269
35	68	0.71	0/942	0.84	1/1269 (0.1%)
36	35	0.68	0/1161	1.06	4/1544 (0.3%)
36	78	0.75	0/1161	1.08	1/1544 (0.1%)
37	45	0.66	1/1142 (0.1%)	0.88	1/1527 (0.1%)
37	88	0.87	0/1106	1.05	2/1478 (0.1%)
38	55	0.66	0/973	0.88	2/1302 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	98	0.60	0/981	0.87	0/1312
39	65	0.51	0/891	0.91	2/1187 (0.2%)
39	A8	0.71	0/891	0.98	4/1187 (0.3%)
40	75	0.59	0/1155	0.77	0/1542
40	B8	0.66	0/1155	0.84	1/1542 (0.1%)
41	85	0.57	0/981	0.75	1/1306 (0.1%)
41	C8	0.72	0/981	0.93	2/1306 (0.2%)
42	95	0.64	0/789	0.87	1/1057 (0.1%)
42	D8	0.66	0/789	0.84	1/1057 (0.1%)
43	A5	0.69	0/910	0.85	0/1220
43	E8	0.71	0/910	0.95	3/1220 (0.2%)
44	B5	0.77	0/739	0.86	0/993
44	F8	0.90	2/756 (0.3%)	0.98	0/1014
45	C5	0.69	0/807	0.90	1/1076 (0.1%)
45	G8	0.73	0/804	0.96	0/1073
46	D5	0.44	0/1460	0.67	0/1982
46	H8	0.50	0/1427	0.80	2/1935 (0.1%)
47	E5	0.66	0/614	0.88	0/819
47	I8	0.82	0/634	0.98	0/847
48	F5	0.66	0/769	0.93	2/1022 (0.2%)
48	J8	0.74	0/769	0.95	1/1022 (0.1%)
49	G5	0.58	0/560	0.81	1/741 (0.1%)
49	K8	0.94	2/565 (0.4%)	0.94	1/748 (0.1%)
50	H5	0.52	0/473	0.71	0/635
50	L8	0.73	1/457 (0.2%)	0.91	0/613
51	I5	0.46	0/527	0.72	0/709
51	M8	0.53	0/545	0.77	0/733
52	J5	0.71	0/448	0.88	0/606
52	N8	0.68	0/467	0.90	0/632
53	K5	0.74	0/396	0.85	1/529 (0.2%)
53	O8	0.87	1/396 (0.3%)	0.87	1/529 (0.2%)
54	L5	0.79	0/406	0.93	1/536 (0.2%)
54	P8	0.96	0/399	1.13	1/526 (0.2%)
55	M5	0.84	0/483	0.98	0/634
55	Q8	1.25	4/491 (0.8%)	1.62	7/645 (1.1%)
All	All	0.83	252/322599 (0.1%)	1.47	5551/483107 (1.1%)

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
4	3E	0	2
9	8E	0	1
10	1A	0	1
11	2I	0	2
13	4I	0	2
15	6I	0	1
16	7I	0	1
19	AI	0	2
20	BA	0	2
28	11	0	4
28	19	0	5
29	21	0	3
29	29	0	3
30	39	0	2
31	41	0	1
33	61	0	4
33	69	0	1
35	25	0	1
36	35	0	5
37	45	0	4
37	88	0	2
39	65	0	1
39	A8	0	2
40	75	0	2
40	B8	0	1
41	85	0	1
41	C8	0	1
43	E8	0	1
44	B5	0	2
44	F8	0	1
45	C5	0	3
45	G8	0	1
46	D5	0	1
46	H8	0	1
47	I8	0	2
48	F5	0	2
49	G5	0	3
49	K8	0	3
51	M8	0	2
52	J5	0	1
52	N8	0	1
53	O8	0	1
55	M5	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
55	Q8	0	5
All	All	0	88

The worst 5 of 252 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	21	U	C5-C6	19.03	1.51	1.34
23	2K	21	U	C5-C6	16.80	1.49	1.34
26	1H	774	A	N9-C4	-13.91	1.29	1.37
26	14	783	A	N9-C4	-12.95	1.30	1.37
23	2K	21	U	C2-N3	12.76	1.46	1.37

The worst 5 of 5551 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	1H	1786	A	C2-N3-C4	-22.74	99.23	110.60
26	1H	1899	G	N3-C4-N9	-22.01	112.80	126.00
26	1H	676	A	C2-N3-C4	-20.28	100.46	110.60
26	1H	1899	G	C2-N3-C4	-19.38	102.21	111.90
26	1H	783	A	C2-N3-C4	-18.91	101.14	110.60

There are no chirality outliers.

5 of 88 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
11	2I	100	ALA	Peptide
11	2I	101	SER	Peptide
4	3E	166	LYS	Peptide
4	3E	30	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	32207	0	16254	745	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1G	32182	0	16245	835	1
2	12	1924	0	1975	96	0
2	1E	1924	0	1975	96	0
3	22	1612	0	1677	71	0
3	2E	1605	0	1668	48	0
4	32	1702	0	1763	86	0
4	3E	1702	0	1762	81	0
5	42	1155	0	1213	60	0
5	4E	1155	0	1213	51	0
6	52	842	0	857	31	0
6	5E	842	0	857	21	0
7	62	1256	0	1296	53	0
7	6E	1256	0	1296	52	0
8	72	1115	0	1177	47	0
8	7E	1115	0	1177	59	0
9	82	1009	0	1037	68	0
9	8E	1009	0	1037	60	0
10	1A	801	0	849	44	0
10	1I	801	0	849	52	0
11	2A	864	0	881	32	0
11	2I	864	0	881	35	0
12	3A	975	0	1062	53	0
12	3I	975	0	1062	37	0
13	4A	933	0	992	64	0
13	4I	938	0	997	51	0
14	5A	475	0	511	30	0
14	5I	491	0	529	24	0
15	6A	733	0	771	29	0
15	6I	733	0	771	29	0
16	7A	705	0	725	25	0
16	7I	705	0	725	58	0
17	8A	834	0	904	22	0
17	8I	834	0	904	47	0
18	9A	590	0	662	32	0
18	9I	590	0	662	22	0
19	AA	624	0	636	40	0
19	AI	647	0	665	33	0
20	BA	762	0	861	34	0
20	BI	762	0	861	48	0
21	1B	217	0	234	15	0
21	1F	217	0	234	10	0
22	1K	1628	0	840	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	2K	1646	0	845	29	0
23	2L	1646	0	845	32	0
24	1L	1619	0	822	21	0
24	3K	1619	0	822	53	0
24	3L	1619	0	822	40	0
25	4K	281	0	142	6	0
25	4L	193	0	99	8	0
26	14	62647	0	31581	1303	0
26	1H	62707	0	31607	1456	1
27	16	2617	0	1328	55	0
27	1J	2617	0	1328	92	0
28	11	2115	0	2195	101	0
28	19	2120	0	2197	89	0
29	21	1568	0	1634	100	0
29	29	1568	0	1634	119	0
30	31	1585	0	1632	77	0
30	39	1627	0	1680	100	0
31	41	1473	0	1535	75	0
31	49	1473	0	1535	61	0
32	51	1336	0	1418	75	0
32	59	1299	0	1371	68	0
33	61	1136	0	1223	63	0
33	69	1136	0	1223	51	0
34	15	1104	0	1180	56	0
34	58	1104	0	1180	52	0
35	25	932	0	996	37	0
35	68	932	0	996	46	0
36	35	1144	0	1228	81	0
36	78	1144	0	1228	102	0
37	45	1121	0	1179	61	0
37	88	1086	0	1129	65	0
38	55	959	0	1021	47	0
38	98	967	0	1033	58	0
39	65	881	0	943	68	0
39	A8	881	0	943	61	0
40	75	1141	0	1202	69	0
40	B8	1141	0	1202	55	0
41	85	963	0	1022	49	0
41	C8	963	0	1022	62	0
42	95	778	0	852	62	0
42	D8	778	0	852	42	0
43	A5	899	0	964	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	E8	899	0	964	33	0
44	B5	725	0	778	34	0
44	F8	742	0	803	42	0
45	C5	794	0	884	56	0
45	G8	791	0	881	55	0
46	D5	1428	0	1454	69	0
46	H8	1397	0	1430	56	0
47	E5	606	0	628	39	0
47	I8	626	0	642	38	0
48	F5	762	0	848	30	0
48	J8	762	0	848	28	0
49	G5	558	0	610	27	0
49	K8	563	0	612	44	0
50	H5	468	0	518	17	0
50	L8	452	0	503	35	0
51	I5	515	0	514	33	0
51	M8	533	0	526	42	0
52	J5	434	0	454	23	0
52	N8	453	0	475	18	0
53	K5	389	0	404	18	0
53	O8	389	0	404	30	0
54	L5	398	0	441	19	0
54	P8	391	0	432	14	0
55	M5	477	0	540	44	0
55	Q8	485	0	551	72	0
56	11	2	0	0	0	0
56	13	152	0	0	0	0
56	14	426	0	0	0	0
56	15	1	0	0	0	0
56	16	15	0	0	0	0
56	1G	88	0	0	0	0
56	1H	506	0	0	0	0
56	1J	10	0	0	0	0
56	21	2	0	0	0	0
56	25	2	0	0	0	0
56	29	2	0	0	0	0
56	2K	7	0	0	0	0
56	2L	3	0	0	0	0
56	31	1	0	0	0	0
56	32	1	0	0	0	0
56	35	1	0	0	0	0
56	39	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	3I	2	0	0	0	0
56	41	2	0	0	0	0
56	45	2	0	0	0	0
56	49	1	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	6A	1	0	0	0	0
56	78	2	0	0	0	0
56	85	1	0	0	0	0
56	88	2	0	0	0	0
56	C5	1	0	0	0	0
56	E5	1	0	0	0	0
56	G8	1	0	0	0	0
56	I8	2	0	0	0	0
56	J8	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
57	32	1	0	0	0	0
57	3E	1	0	0	0	0
57	5A	1	0	0	0	0
57	5I	1	0	0	0	0
57	C5	1	0	0	0	0
57	G8	1	0	0	0	0
58	11	9	0	0	3	0
58	13	164	0	0	12	0
58	14	543	0	0	112	0
58	15	1	0	0	0	0
58	16	6	0	0	2	0
58	19	3	0	0	3	0
58	1G	64	0	0	12	0
58	1H	920	0	0	187	0
58	1I	1	0	0	1	0
58	1J	18	0	0	2	0
58	21	5	0	0	2	0
58	29	3	0	0	0	0
58	31	7	0	0	0	0
58	32	1	0	0	0	0
58	35	1	0	0	0	0
58	39	8	0	0	0	0
58	3E	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	3I	1	0	0	0	0
58	4E	1	0	0	0	0
58	4K	1	0	0	0	0
58	5I	1	0	0	0	0
58	6I	1	0	0	0	0
58	78	6	0	0	1	0
58	7A	1	0	0	0	0
58	7I	1	0	0	0	0
58	85	1	0	0	0	0
58	B8	1	0	0	0	0
58	C8	2	0	0	0	0
58	E8	1	0	0	0	0
58	F8	1	0	0	0	0
58	G8	3	0	0	1	0
58	J8	1	0	0	0	0
58	L5	2	0	0	0	0
58	L8	3	0	0	1	0
58	P8	1	0	0	0	0
58	Q8	2	0	0	0	0
All	All	299951	0	200381	8425	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

The worst 5 of 8425 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)
26:1H:1604:C:OP2	58:1H:3643:HOH:O	1.58	1.18
40:B8:50:ILE:HD11	40:B8:102:ILE:HD11	1.35	1.08
26:1H:2576:G:OP1	58:1H:3756:HOH:O	1.73	1.07
26:1H:1614:A:OP1	58:1H:3859:HOH:O	1.76	1.03
26:14:1774:C:OP1	58:14:3564:HOH:O	1.77	1.03

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2137:C:OP1	1:1G:999:U:O2'[4_555]	2.14	0.06

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	235/256 (92%)	198 (84%)	34 (14%)	3 (1%)	12 38
2	1E	235/256 (92%)	199 (85%)	30 (13%)	6 (3%)	5 22
3	22	204/239 (85%)	178 (87%)	26 (13%)	0	100 100
3	2E	203/239 (85%)	186 (92%)	14 (7%)	3 (2%)	10 35
4	32	206/209 (99%)	179 (87%)	27 (13%)	0	100 100
4	3E	206/209 (99%)	189 (92%)	14 (7%)	3 (2%)	10 35
5	42	149/162 (92%)	139 (93%)	9 (6%)	1 (1%)	22 52
5	4E	149/162 (92%)	139 (93%)	9 (6%)	1 (1%)	22 52
6	52	99/101 (98%)	95 (96%)	4 (4%)	0	100 100
6	5E	99/101 (98%)	94 (95%)	5 (5%)	0	100 100
7	62	153/156 (98%)	143 (94%)	10 (6%)	0	100 100
7	6E	153/156 (98%)	142 (93%)	11 (7%)	0	100 100
8	72	136/138 (99%)	125 (92%)	11 (8%)	0	100 100
8	7E	136/138 (99%)	126 (93%)	9 (7%)	1 (1%)	22 52
9	82	125/128 (98%)	116 (93%)	9 (7%)	0	100 100
9	8E	125/128 (98%)	110 (88%)	15 (12%)	0	100 100
10	1A	97/105 (92%)	88 (91%)	9 (9%)	0	100 100
10	1I	97/105 (92%)	88 (91%)	9 (9%)	0	100 100
11	2A	114/129 (88%)	103 (90%)	10 (9%)	1 (1%)	17 47
11	2I	114/129 (88%)	101 (89%)	12 (10%)	1 (1%)	17 47
12	3A	123/132 (93%)	101 (82%)	18 (15%)	4 (3%)	4 17
12	3I	123/132 (93%)	104 (85%)	19 (15%)	0	100 100
13	4A	115/126 (91%)	95 (83%)	19 (16%)	1 (1%)	17 47
13	4I	116/126 (92%)	95 (82%)	20 (17%)	1 (1%)	17 47
14	5A	56/61 (92%)	47 (84%)	8 (14%)	1 (2%)	8 30

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
14	5I	58/61 (95%)	49 (84%)	7 (12%)	2 (3%)	3 17
15	6A	86/89 (97%)	78 (91%)	8 (9%)	0	100 100
15	6I	86/89 (97%)	77 (90%)	9 (10%)	0	100 100
16	7A	82/88 (93%)	78 (95%)	4 (5%)	0	100 100
16	7I	82/88 (93%)	78 (95%)	4 (5%)	0	100 100
17	8A	98/105 (93%)	89 (91%)	9 (9%)	0	100 100
17	8I	98/105 (93%)	95 (97%)	3 (3%)	0	100 100
18	9A	70/88 (80%)	57 (81%)	12 (17%)	1 (1%)	11 36
18	9I	70/88 (80%)	62 (89%)	6 (9%)	2 (3%)	4 20
19	AA	76/93 (82%)	60 (79%)	14 (18%)	2 (3%)	5 22
19	AI	79/93 (85%)	68 (86%)	8 (10%)	3 (4%)	3 15
20	BA	97/106 (92%)	84 (87%)	12 (12%)	1 (1%)	15 45
20	BI	97/106 (92%)	84 (87%)	12 (12%)	1 (1%)	15 45
21	1B	23/27 (85%)	21 (91%)	2 (9%)	0	100 100
21	1F	23/27 (85%)	22 (96%)	1 (4%)	0	100 100
28	11	270/276 (98%)	247 (92%)	17 (6%)	6 (2%)	6 25
28	19	271/276 (98%)	252 (93%)	16 (6%)	3 (1%)	14 42
29	21	203/206 (98%)	166 (82%)	29 (14%)	8 (4%)	3 15
29	29	203/206 (98%)	160 (79%)	32 (16%)	11 (5%)	2 9
30	31	200/210 (95%)	183 (92%)	16 (8%)	1 (0%)	29 60
30	39	206/210 (98%)	174 (84%)	28 (14%)	4 (2%)	8 29
31	41	179/182 (98%)	155 (87%)	20 (11%)	4 (2%)	6 25
31	49	179/182 (98%)	155 (87%)	22 (12%)	2 (1%)	14 42
32	51	172/180 (96%)	148 (86%)	19 (11%)	5 (3%)	4 20
32	59	167/180 (93%)	136 (81%)	28 (17%)	3 (2%)	8 30
33	61	144/148 (97%)	118 (82%)	21 (15%)	5 (4%)	3 17
33	69	144/148 (97%)	116 (81%)	25 (17%)	3 (2%)	7 26
34	15	136/140 (97%)	122 (90%)	14 (10%)	0	100 100
34	58	136/140 (97%)	114 (84%)	19 (14%)	3 (2%)	6 25
35	25	120/122 (98%)	113 (94%)	7 (6%)	0	100 100
35	68	120/122 (98%)	112 (93%)	8 (7%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
36	35	148/150 (99%)	110 (74%)	35 (24%)	3 (2%)	7 27
36	78	148/150 (99%)	115 (78%)	25 (17%)	8 (5%)	2 9
37	45	139/141 (99%)	113 (81%)	22 (16%)	4 (3%)	4 20
37	88	134/141 (95%)	112 (84%)	18 (13%)	4 (3%)	4 19
38	55	115/118 (98%)	108 (94%)	7 (6%)	0	100 100
38	98	116/118 (98%)	100 (86%)	15 (13%)	1 (1%)	17 47
39	65	109/112 (97%)	87 (80%)	19 (17%)	3 (3%)	5 21
39	A8	109/112 (97%)	89 (82%)	19 (17%)	1 (1%)	17 47
40	75	135/146 (92%)	113 (84%)	21 (16%)	1 (1%)	22 52
40	B8	135/146 (92%)	122 (90%)	13 (10%)	0	100 100
41	85	115/118 (98%)	107 (93%)	7 (6%)	1 (1%)	17 47
41	C8	115/118 (98%)	108 (94%)	6 (5%)	1 (1%)	17 47
42	95	99/101 (98%)	81 (82%)	15 (15%)	3 (3%)	4 19
42	D8	99/101 (98%)	90 (91%)	8 (8%)	1 (1%)	15 45
43	A5	111/113 (98%)	103 (93%)	8 (7%)	0	100 100
43	E8	111/113 (98%)	103 (93%)	8 (7%)	0	100 100
44	B5	90/96 (94%)	82 (91%)	7 (8%)	1 (1%)	14 42
44	F8	92/96 (96%)	83 (90%)	6 (6%)	3 (3%)	4 17
45	C5	102/110 (93%)	73 (72%)	24 (24%)	5 (5%)	2 11
45	G8	102/110 (93%)	84 (82%)	14 (14%)	4 (4%)	3 15
46	D5	177/206 (86%)	136 (77%)	31 (18%)	10 (6%)	2 9
46	H8	173/206 (84%)	142 (82%)	27 (16%)	4 (2%)	6 24
47	E5	74/85 (87%)	68 (92%)	6 (8%)	0	100 100
47	I8	78/85 (92%)	66 (85%)	11 (14%)	1 (1%)	12 38
48	F5	95/98 (97%)	83 (87%)	11 (12%)	1 (1%)	14 42
48	J8	95/98 (97%)	88 (93%)	7 (7%)	0	100 100
49	G5	64/72 (89%)	57 (89%)	5 (8%)	2 (3%)	4 19
49	K8	65/72 (90%)	56 (86%)	7 (11%)	2 (3%)	4 19
50	H5	57/60 (95%)	53 (93%)	4 (7%)	0	100 100
50	L8	55/60 (92%)	49 (89%)	5 (9%)	1 (2%)	8 30
51	I5	61/71 (86%)	32 (52%)	27 (44%)	2 (3%)	4 17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
51	M8	64/71 (90%)	45 (70%)	16 (25%)	3 (5%)	2 12
52	J5	54/60 (90%)	49 (91%)	5 (9%)	0	100 100
52	N8	56/60 (93%)	52 (93%)	4 (7%)	0	100 100
53	K5	43/54 (80%)	29 (67%)	14 (33%)	0	100 100
53	O8	43/54 (80%)	31 (72%)	12 (28%)	0	100 100
54	L5	44/49 (90%)	43 (98%)	1 (2%)	0	100 100
54	P8	43/49 (88%)	41 (95%)	2 (5%)	0	100 100
55	M5	58/65 (89%)	46 (79%)	11 (19%)	1 (2%)	9 32
55	Q8	59/65 (91%)	39 (66%)	16 (27%)	4 (7%)	1 6
All	All	11325/12054 (94%)	9841 (87%)	1312 (12%)	172 (2%)	10 35

5 of 172 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
28	11	239	ARG
31	41	14	GLU
44	F8	68	ARG
49	K8	47	ASN
49	K8	48	HIS

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	205/220 (93%)	167 (82%)	38 (18%)	1 6
2	1E	205/220 (93%)	167 (82%)	38 (18%)	1 6
3	22	160/188 (85%)	132 (82%)	28 (18%)	2 7
3	2E	159/188 (85%)	131 (82%)	28 (18%)	2 7
4	32	180/181 (99%)	148 (82%)	32 (18%)	2 7
4	3E	180/181 (99%)	147 (82%)	33 (18%)	1 6
5	42	116/123 (94%)	93 (80%)	23 (20%)	1 5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
5	4E	116/123 (94%)	87 (75%)	29 (25%)	0 1
6	52	90/90 (100%)	76 (84%)	14 (16%)	2 10
6	5E	90/90 (100%)	78 (87%)	12 (13%)	4 14
7	62	126/127 (99%)	105 (83%)	21 (17%)	2 8
7	6E	126/127 (99%)	103 (82%)	23 (18%)	1 6
8	72	119/119 (100%)	99 (83%)	20 (17%)	2 8
8	7E	119/119 (100%)	97 (82%)	22 (18%)	1 6
9	82	98/99 (99%)	81 (83%)	17 (17%)	2 7
9	8E	98/99 (99%)	76 (78%)	22 (22%)	1 3
10	1A	89/92 (97%)	81 (91%)	8 (9%)	9 30
10	1I	89/92 (97%)	78 (88%)	11 (12%)	4 17
11	2A	88/99 (89%)	76 (86%)	12 (14%)	3 14
11	2I	88/99 (89%)	75 (85%)	13 (15%)	3 11
12	3A	104/109 (95%)	81 (78%)	23 (22%)	1 3
12	3I	104/109 (95%)	88 (85%)	16 (15%)	2 10
13	4A	94/101 (93%)	79 (84%)	15 (16%)	2 9
13	4I	94/101 (93%)	75 (80%)	19 (20%)	1 4
14	5A	48/50 (96%)	41 (85%)	7 (15%)	3 12
14	5I	49/50 (98%)	37 (76%)	12 (24%)	0 2
15	6A	79/80 (99%)	70 (89%)	9 (11%)	5 20
15	6I	79/80 (99%)	71 (90%)	8 (10%)	7 25
16	7A	72/74 (97%)	58 (81%)	14 (19%)	1 5
16	7I	72/74 (97%)	56 (78%)	16 (22%)	1 3
17	8A	95/97 (98%)	83 (87%)	12 (13%)	4 16
17	8I	95/97 (98%)	81 (85%)	14 (15%)	3 11
18	9A	63/77 (82%)	49 (78%)	14 (22%)	1 3
18	9I	63/77 (82%)	53 (84%)	10 (16%)	2 9
19	AA	67/80 (84%)	52 (78%)	15 (22%)	1 3
19	AI	70/80 (88%)	49 (70%)	21 (30%)	0 0
20	BA	76/82 (93%)	61 (80%)	15 (20%)	1 5
20	BI	76/82 (93%)	62 (82%)	14 (18%)	1 6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
21	1B	20/22 (91%)	18 (90%)	2 (10%)	7 25
21	1F	20/22 (91%)	19 (95%)	1 (5%)	24 54
28	11	214/218 (98%)	171 (80%)	43 (20%)	1 4
28	19	214/218 (98%)	180 (84%)	34 (16%)	2 9
29	21	165/166 (99%)	122 (74%)	43 (26%)	0 1
29	29	165/166 (99%)	134 (81%)	31 (19%)	1 5
30	31	161/166 (97%)	130 (81%)	31 (19%)	1 5
30	39	165/166 (99%)	132 (80%)	33 (20%)	1 4
31	41	155/156 (99%)	128 (83%)	27 (17%)	2 7
31	49	155/156 (99%)	132 (85%)	23 (15%)	3 11
32	51	145/148 (98%)	114 (79%)	31 (21%)	1 3
32	59	141/148 (95%)	112 (79%)	29 (21%)	1 4
33	61	122/124 (98%)	88 (72%)	34 (28%)	0 1
33	69	122/124 (98%)	93 (76%)	29 (24%)	0 2
34	15	117/119 (98%)	95 (81%)	22 (19%)	1 5
34	58	117/119 (98%)	94 (80%)	23 (20%)	1 5
35	25	100/100 (100%)	77 (77%)	23 (23%)	1 2
35	68	100/100 (100%)	84 (84%)	16 (16%)	2 9
36	35	116/116 (100%)	76 (66%)	40 (34%)	0 0
36	78	116/116 (100%)	80 (69%)	36 (31%)	0 0
37	45	111/111 (100%)	84 (76%)	27 (24%)	0 2
37	88	104/111 (94%)	81 (78%)	23 (22%)	1 3
38	55	100/101 (99%)	78 (78%)	22 (22%)	1 3
38	98	101/101 (100%)	81 (80%)	20 (20%)	1 5
39	65	87/88 (99%)	64 (74%)	23 (26%)	0 1
39	A8	87/88 (99%)	60 (69%)	27 (31%)	0 0
40	75	120/127 (94%)	92 (77%)	28 (23%)	1 2
40	B8	120/127 (94%)	89 (74%)	31 (26%)	0 1
41	85	93/94 (99%)	80 (86%)	13 (14%)	3 13
41	C8	93/94 (99%)	76 (82%)	17 (18%)	1 6
42	95	82/82 (100%)	57 (70%)	25 (30%)	0 0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
42	D8	82/82 (100%)	61 (74%)	21 (26%)	0 1
43	A5	92/92 (100%)	78 (85%)	14 (15%)	3 10
43	E8	92/92 (100%)	72 (78%)	20 (22%)	1 3
44	B5	74/78 (95%)	57 (77%)	17 (23%)	1 2
44	F8	76/78 (97%)	59 (78%)	17 (22%)	1 3
45	C5	85/91 (93%)	61 (72%)	24 (28%)	0 1
45	G8	85/91 (93%)	67 (79%)	18 (21%)	1 4
46	D5	158/179 (88%)	131 (83%)	27 (17%)	2 7
46	H8	154/179 (86%)	123 (80%)	31 (20%)	1 4
47	E5	61/67 (91%)	52 (85%)	9 (15%)	3 11
47	I8	61/67 (91%)	52 (85%)	9 (15%)	3 11
48	F5	82/83 (99%)	67 (82%)	15 (18%)	1 6
48	J8	82/83 (99%)	65 (79%)	17 (21%)	1 4
49	G5	62/67 (92%)	53 (86%)	9 (14%)	3 12
49	K8	62/67 (92%)	41 (66%)	21 (34%)	0 0
50	H5	51/52 (98%)	42 (82%)	9 (18%)	2 7
50	L8	49/52 (94%)	40 (82%)	9 (18%)	1 6
51	I5	57/63 (90%)	47 (82%)	10 (18%)	2 7
51	M8	59/63 (94%)	44 (75%)	15 (25%)	0 1
52	J5	48/52 (92%)	37 (77%)	11 (23%)	1 2
52	N8	51/52 (98%)	38 (74%)	13 (26%)	0 1
53	K5	44/52 (85%)	32 (73%)	12 (27%)	0 1
53	O8	44/52 (85%)	26 (59%)	18 (41%)	0 0
54	L5	39/42 (93%)	32 (82%)	7 (18%)	2 6
54	P8	38/42 (90%)	32 (84%)	6 (16%)	2 9
55	M5	49/55 (89%)	37 (76%)	12 (24%)	0 2
55	Q8	50/55 (91%)	32 (64%)	18 (36%)	0 0
All	All	9556/9998 (96%)	7642 (80%)	1914 (20%)	1 4

5 of 1914 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
50	L8	53	LEU

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Mol	Chain	Res	Type
45	C5	38	ILE
7	62	91	VAL
44	B5	27	THR
53	K5	45	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 29 such sidechains are listed below:

Mol	Chain	Res	Type
8	72	15	ASN
51	I5	20	ASN
34	15	56	ASN
49	G5	48	HIS
30	39	203	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1496/1522 (98%)	328 (21%)	30 (2%)
1	1G	1495/1522 (98%)	348 (23%)	39 (2%)
22	1K	74/76 (97%)	31 (41%)	2 (2%)
23	2K	76/77 (98%)	15 (19%)	3 (3%)
23	2L	76/77 (98%)	20 (26%)	3 (3%)
24	1L	75/76 (98%)	26 (34%)	2 (2%)
24	3K	75/76 (98%)	38 (50%)	4 (5%)
24	3L	75/76 (98%)	32 (42%)	2 (2%)
25	4K	12/27 (44%)	4 (33%)	0
25	4L	8/27 (29%)	3 (37%)	1 (12%)
26	14	2908/2917 (99%)	736 (25%)	37 (1%)
26	1H	2911/2917 (99%)	688 (23%)	52 (1%)
27	16	121/122 (99%)	19 (15%)	0
27	1J	121/122 (99%)	31 (25%)	3 (2%)
All	All	9523/9634 (98%)	2319 (24%)	178 (1%)

5 of 2319 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	5	U
1	13	6	G
1	13	7	G
1	13	8	A

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Mol	Chain	Res	Type
1	13	9	G

5 of 178 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1G	992	U
26	14	528	A
1	1G	1126	U
24	1L	10	G
26	14	1085	A

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
23	7MG	2K	47	23	22,26,27	3.19	6 (27%)	29,39,42	2.69	11 (37%)
22	7MG	1K	46	22	22,26,27	3.07	7 (31%)	29,39,42	2.87	9 (31%)
22	5MU	1K	54	22	19,22,23	3.94	5 (26%)	28,32,35	3.10	7 (25%)
23	7MG	2L	47	23	22,26,27	3.11	6 (27%)	29,39,42	2.80	10 (34%)
23	4SU	2L	8	23	18,21,22	1.96	5 (27%)	26,30,33	2.36	7 (26%)
22	PSU	1K	55	22	18,21,22	1.36	1 (5%)	22,30,33	1.49	4 (18%)
23	OMC	2L	33	23	19,22,23	1.84	3 (15%)	26,31,34	1.31	3 (11%)
23	5MU	2L	55	23	19,22,23	3.89	5 (26%)	28,32,35	3.38	8 (28%)
23	5MU	2K	55	23	19,22,23	3.90	5 (26%)	28,32,35	3.38	7 (25%)
22	PSU	1K	32	22	18,21,22	1.26	1 (5%)	22,30,33	1.39	3 (13%)
23	OMC	2K	33	23	19,22,23	1.82	3 (15%)	26,31,34	1.03	1 (3%)
23	PSU	2L	56	23	18,21,22	1.30	2 (11%)	22,30,33	1.68	2 (9%)
22	PSU	1K	39	22	18,21,22	1.06	2 (11%)	22,30,33	1.57	4 (18%)
22	MIA	1K	37	22	24,31,32	2.55	4 (16%)	26,44,47	2.59	8 (30%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
22	4SU	1K	8	22	18,21,22	1.88	5 (27%)	26,30,33	2.27	5 (19%)
23	4SU	2K	8	23	18,21,22	1.90	2 (11%)	26,30,33	3.22	10 (38%)
23	PSU	2K	56	23	18,21,22	1.06	2 (11%)	22,30,33	1.74	4 (18%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	7MG	2K	47	23	-	1/7/37/38	0/3/3/3
22	7MG	1K	46	22	-	1/7/37/38	0/3/3/3
22	5MU	1K	54	22	-	0/7/25/26	0/2/2/2
23	7MG	2L	47	23	-	1/7/37/38	0/3/3/3
23	4SU	2L	8	23	-	2/7/25/26	0/2/2/2
22	PSU	1K	55	22	-	2/7/25/26	0/2/2/2
23	OMC	2L	33	23	-	2/9/27/28	0/2/2/2
23	5MU	2L	55	23	-	0/7/25/26	0/2/2/2
23	5MU	2K	55	23	-	0/7/25/26	0/2/2/2
22	PSU	1K	32	22	-	0/7/25/26	0/2/2/2
23	OMC	2K	33	23	-	1/9/27/28	0/2/2/2
23	PSU	2L	56	23	-	1/7/25/26	0/2/2/2
22	PSU	1K	39	22	-	1/7/25/26	0/2/2/2
22	MIA	1K	37	22	-	4/11/33/34	0/3/3/3
22	4SU	1K	8	22	-	0/7/25/26	0/2/2/2
23	4SU	2K	8	23	-	3/7/25/26	0/2/2/2
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2

The worst 5 of 64 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	55	5MU	C2-N1	12.68	1.58	1.38
22	1K	54	5MU	C2-N1	12.62	1.58	1.38
23	2K	55	5MU	C2-N1	12.47	1.58	1.38
22	1K	37	MIA	C13-C14	9.50	1.59	1.32
23	2L	47	7MG	C5-N7	8.93	1.45	1.35

The worst 5 of 103 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	2K	55	5MU	C5-C4-N3	11.52	125.15	115.31
23	2L	55	5MU	C5-C4-N3	11.10	124.79	115.31
22	1K	54	5MU	C5-C4-N3	10.77	124.50	115.31
23	2K	8	4SU	C4-N3-C2	-10.74	116.91	127.34
22	1K	37	MIA	C12-C13-C14	-7.83	111.90	127.14

There are no chirality outliers.

5 of 19 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
23	2K	8	4SU	O4'-C4'-C5'-O5'
22	1K	37	MIA	N1-C2-S10-C11
22	1K	37	MIA	N3-C2-S10-C11
22	1K	37	MIA	C12-C13-C14-C15
22	1K	37	MIA	C12-C13-C14-C16

There are no ring outliers.

12 monomers are involved in 25 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	2K	47	7MG	2	0
22	1K	46	7MG	3	0
22	1K	54	5MU	1	0
23	2L	47	7MG	1	0
23	2L	8	4SU	1	0
22	1K	55	PSU	1	0
23	2L	33	OMC	5	0
23	2L	55	5MU	3	0
23	2K	55	5MU	3	0
23	2K	33	OMC	1	0
22	1K	37	MIA	3	0
23	2K	8	4SU	2	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 1253 ligands modelled in this entry, 1253 are monoatomic - leaving 0 for Mogul analysis.

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.

No monomer is involved in short contacts.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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	1498/1522 (98%)	0.21	45 (3%) 50 25	73, 122, 204, 309	0
1	1G	1497/1522 (98%)	0.24	74 (4%) 29 13	92, 145, 218, 318	0
2	12	237/256 (92%)	0.20	17 (7%) 15 5	168, 199, 220, 228	0
2	1E	237/256 (92%)	0.13	8 (3%) 45 22	132, 167, 193, 205	0
3	22	206/239 (86%)	0.04	7 (3%) 45 22	161, 182, 205, 218	0
3	2E	205/239 (85%)	-0.02	1 (0%) 91 79	103, 128, 161, 170	0
4	32	208/209 (99%)	0.59	18 (8%) 10 3	122, 144, 165, 174	0
4	3E	208/209 (99%)	0.77	30 (14%) 2 1	102, 129, 151, 165	0
5	42	151/162 (93%)	0.52	18 (11%) 4 1	136, 154, 171, 203	0
5	4E	151/162 (93%)	0.57	19 (12%) 3 1	97, 120, 143, 176	0
6	52	101/101 (100%)	-0.27	0 100 100	106, 127, 147, 161	0
6	5E	101/101 (100%)	-0.07	0 100 100	101, 123, 148, 161	0
7	62	155/156 (99%)	0.92	27 (17%) 1 0	136, 154, 182, 207	0
7	6E	155/156 (99%)	0.49	16 (10%) 6 2	124, 139, 168, 193	0
8	72	138/138 (100%)	1.28	42 (30%) 0 0	130, 158, 174, 179	0
8	7E	138/138 (100%)	0.90	26 (18%) 1 0	105, 129, 141, 149	0
9	82	127/128 (99%)	3.27	75 (59%) 0 0	141, 183, 204, 208	0
9	8E	127/128 (99%)	1.66	45 (35%) 0 0	107, 156, 179, 193	0
10	1A	99/105 (94%)	1.96	39 (39%) 0 0	153, 184, 203, 210	0
10	1I	99/105 (94%)	1.40	32 (32%) 0 0	102, 155, 187, 192	0
11	2A	116/129 (89%)	0.50	11 (9%) 8 2	111, 137, 158, 182	0
11	2I	116/129 (89%)	0.27	8 (6%) 16 6	90, 127, 153, 180	0
12	3A	125/132 (94%)	1.24	35 (28%) 0 0	109, 134, 160, 185	0
12	3I	125/132 (94%)	0.44	11 (8%) 10 3	83, 96, 131, 179	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	4A	117/126 (92%)	1.15	30 (25%) 0 0	140, 184, 206, 216	0
13	4I	118/126 (93%)	0.25	7 (5%) 22 9	101, 139, 159, 170	0
14	5A	58/61 (95%)	4.97	46 (79%) 0 0	164, 179, 194, 201	0
14	5I	60/61 (98%)	1.88	24 (40%) 0 0	106, 118, 137, 147	0
15	6A	88/89 (98%)	0.81	12 (13%) 3 1	118, 139, 155, 159	0
15	6I	88/89 (98%)	1.02	21 (23%) 0 0	98, 125, 142, 154	0
16	7A	84/88 (95%)	1.04	19 (22%) 0 0	113, 132, 150, 174	0
16	7I	84/88 (95%)	3.10	55 (65%) 0 0	122, 135, 169, 187	0
17	8A	100/105 (95%)	1.17	21 (21%) 1 0	118, 138, 153, 176	0
17	8I	100/105 (95%)	0.66	14 (14%) 2 1	108, 127, 140, 145	0
18	9A	72/88 (81%)	0.04	2 (2%) 53 28	116, 142, 178, 198	0
18	9I	72/88 (81%)	0.10	0 100 100	109, 127, 162, 187	0
19	AA	78/93 (83%)	1.25	25 (32%) 0 0	172, 203, 216, 222	0
19	AI	81/93 (87%)	0.47	5 (6%) 20 8	109, 135, 160, 166	0
20	BA	99/106 (93%)	1.63	43 (43%) 0 0	108, 130, 158, 173	0
20	BI	99/106 (93%)	1.35	34 (34%) 0 0	129, 144, 177, 183	0
21	1B	25/27 (92%)	6.10	23 (92%) 0 0	147, 163, 179, 196	0
21	1F	25/27 (92%)	4.77	22 (88%) 0 0	114, 126, 139, 164	0
22	1K	69/76 (90%)	0.12	4 (5%) 23 9	101, 222, 265, 271	0
23	2K	72/77 (93%)	0.05	0 100 100	84, 108, 137, 146	0
23	2L	72/77 (93%)	-0.42	1 (1%) 75 53	96, 136, 166, 170	0
24	1L	76/76 (100%)	0.81	12 (15%) 2 0	147, 264, 289, 295	0
24	3K	76/76 (100%)	-0.06	2 (2%) 56 30	92, 255, 286, 289	0
24	3L	76/76 (100%)	0.49	9 (11%) 4 1	104, 264, 294, 299	0
25	4K	13/27 (48%)	0.92	0 100 100	88, 101, 151, 157	0
25	4L	9/27 (33%)	0.59	0 100 100	121, 154, 165, 175	0
26	14	2909/2917 (99%)	0.21	70 (2%) 59 34	67, 105, 270, 378	0
26	1H	2912/2917 (99%)	0.28	12 (0%) 92 82	56, 91, 253, 353	0
27	16	122/122 (100%)	-0.17	0 100 100	83, 111, 133, 217	0
27	1J	122/122 (100%)	-0.13	1 (0%) 86 70	106, 152, 174, 226	0
28	11	272/276 (98%)	0.50	8 (2%) 51 26	57, 82, 100, 110	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	19	273/276 (98%)	0.90	40 (14%) 2 1	67, 94, 110, 125	0
29	21	205/206 (99%)	0.91	27 (13%) 3 1	66, 109, 151, 165	0
29	29	205/206 (99%)	1.30	67 (32%) 0 0	76, 113, 158, 183	0
30	31	202/210 (96%)	0.32	2 (0%) 82 63	60, 94, 130, 150	0
30	39	208/210 (99%)	0.43	14 (6%) 17 7	76, 123, 179, 199	0
31	41	181/182 (99%)	0.31	9 (4%) 28 12	100, 121, 159, 172	0
31	49	181/182 (99%)	1.07	41 (22%) 0 0	148, 169, 198, 209	0
32	51	174/180 (96%)	0.12	5 (2%) 51 26	99, 122, 139, 150	0
32	59	169/180 (93%)	1.64	62 (36%) 0 0	169, 218, 243, 258	0
33	61	146/148 (98%)	-0.02	4 (2%) 54 28	98, 154, 170, 175	0
33	69	146/148 (98%)	0.71	22 (15%) 2 1	102, 146, 170, 175	0
34	15	138/140 (98%)	1.27	35 (25%) 0 0	98, 129, 161, 185	0
34	58	138/140 (98%)	0.79	15 (10%) 5 2	81, 109, 148, 163	0
35	25	122/122 (100%)	0.51	9 (7%) 14 5	85, 107, 125, 135	0
35	68	122/122 (100%)	0.41	3 (2%) 57 32	75, 92, 111, 124	0
36	35	150/150 (100%)	1.13	40 (26%) 0 0	77, 128, 162, 198	0
36	78	150/150 (100%)	0.56	11 (7%) 15 5	64, 98, 124, 176	0
37	45	141/141 (100%)	2.38	78 (55%) 0 0	97, 129, 154, 167	0
37	88	138/141 (97%)	0.52	6 (4%) 35 16	70, 95, 115, 147	0
38	55	117/118 (99%)	0.97	20 (17%) 1 0	77, 97, 113, 133	0
38	98	118/118 (100%)	0.82	13 (11%) 5 2	79, 102, 125, 139	0
39	65	111/112 (99%)	1.38	36 (32%) 0 0	118, 145, 162, 172	0
39	A8	111/112 (99%)	0.36	4 (3%) 42 21	92, 107, 130, 144	0
40	75	137/146 (93%)	0.31	10 (7%) 15 5	96, 115, 173, 208	0
40	B8	137/146 (93%)	0.49	12 (8%) 10 3	86, 111, 170, 202	0
41	85	117/118 (99%)	0.79	17 (14%) 2 1	86, 115, 155, 180	0
41	C8	117/118 (99%)	0.86	19 (16%) 1 0	71, 98, 136, 147	0
42	95	101/101 (100%)	0.51	14 (13%) 2 1	86, 143, 161, 177	0
42	D8	101/101 (100%)	0.31	10 (9%) 7 2	73, 123, 149, 162	0
43	A5	113/113 (100%)	0.42	7 (6%) 20 8	77, 94, 124, 183	0
43	E8	113/113 (100%)	0.38	3 (2%) 54 28	75, 91, 125, 164	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	B5	92/96 (95%)	0.68	8 (8%) 10 3	85, 102, 129, 133	0
44	F8	94/96 (97%)	0.29	1 (1%) 80 60	69, 88, 113, 128	0
45	C5	104/110 (94%)	1.29	25 (24%) 0 0	107, 137, 167, 175	0
45	G8	104/110 (94%)	0.30	0 100 100	87, 113, 147, 166	0
46	D5	179/206 (86%)	0.99	35 (19%) 1 0	139, 176, 263, 269	0
46	H8	175/206 (84%)	-0.05	1 (0%) 89 76	97, 139, 228, 236	0
47	E5	76/85 (89%)	1.90	35 (46%) 0 0	85, 111, 130, 169	0
47	I8	80/85 (94%)	1.09	20 (25%) 0 0	71, 90, 122, 131	0
48	F5	97/98 (98%)	1.73	32 (32%) 0 0	79, 102, 146, 163	0
48	J8	97/98 (98%)	1.14	14 (14%) 2 1	69, 91, 145, 176	0
49	G5	66/72 (91%)	0.19	2 (3%) 50 25	101, 121, 141, 167	0
49	K8	67/72 (93%)	0.39	2 (2%) 50 25	76, 96, 119, 154	0
50	H5	59/60 (98%)	1.04	13 (22%) 0 0	97, 126, 167, 182	0
50	L8	57/60 (95%)	0.18	0 100 100	77, 98, 120, 133	0
51	I5	63/71 (88%)	1.49	22 (34%) 0 0	179, 219, 236, 243	0
51	M8	66/71 (92%)	0.45	6 (9%) 9 3	128, 174, 203, 214	0
52	J5	56/60 (93%)	0.38	4 (7%) 16 6	77, 103, 150, 162	0
52	N8	58/60 (96%)	0.93	6 (10%) 6 2	68, 115, 186, 191	0
53	K5	45/54 (83%)	7.07	38 (84%) 0 0	153, 180, 196, 202	0
53	O8	45/54 (83%)	3.61	32 (71%) 0 0	131, 159, 177, 183	0
54	L5	46/49 (93%)	0.72	3 (6%) 18 7	64, 76, 89, 102	0
54	P8	45/49 (91%)	0.14	0 100 100	59, 64, 78, 92	0
55	M5	60/65 (92%)	2.18	36 (60%) 0 0	89, 101, 125, 147	0
55	Q8	61/65 (93%)	1.77	23 (37%) 0 0	74, 91, 117, 128	0
All	All	21042/21688 (97%)	0.57	2139 (10%) 6 2	56, 122, 214, 378	0

The worst 5 of 2139 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
53	K5	42	TRP	19.7
53	K5	51	GLU	19.1
24	3L	17	C	18.5
7	62	81	GLY	16.8
7	62	82	GLY	16.6

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	1K	55	20/21	0.78	0.12	153,172,191,191	0
22	4SU	1K	8	20/21	0.80	0.14	184,192,200,205	0
22	7MG	1K	46	24/25	0.87	0.12	175,197,203,209	0
23	4SU	2L	8	20/21	0.88	0.14	128,140,143,147	0
22	PSU	1K	32	20/21	0.89	0.32	113,119,123,123	0
23	PSU	2L	56	20/21	0.90	0.09	128,135,142,148	0
22	5MU	1K	54	21/22	0.93	0.10	142,157,168,172	0
22	PSU	1K	39	20/21	0.94	0.17	96,108,116,119	0
23	4SU	2K	8	20/21	0.94	0.21	100,108,123,123	0
22	MIA	1K	37	29/30	0.94	0.30	89,100,118,123	0
23	5MU	2L	55	21/22	0.95	0.11	138,142,147,151	0
23	7MG	2K	47	24/25	0.95	0.17	110,120,128,137	0
23	7MG	2L	47	24/25	0.95	0.12	140,151,156,161	0
23	PSU	2K	56	20/21	0.96	0.14	109,113,120,127	0
23	OMC	2L	33	21/22	0.96	0.20	124,127,132,137	0
23	5MU	2K	55	21/22	0.97	0.15	99,116,125,136	0
23	OMC	2K	33	21/22	0.98	0.32	88,94,101,106	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	3119	1/1	0.35	0.52	101,101,101,101	0
56	MG	1H	3498	1/1	0.39	0.20	119,119,119,119	0
56	MG	1H	3142	1/1	0.41	0.41	88,88,88,88	0
56	MG	13	1720	1/1	0.43	0.24	104,104,104,104	0
56	MG	13	1750	1/1	0.45	0.35	131,131,131,131	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	13	1710	1/1	0.45	0.30	98,98,98,98	0
56	MG	14	3391	1/1	0.46	0.10	124,124,124,124	0
56	MG	13	1739	1/1	0.47	0.20	120,120,120,120	0
56	MG	13	1697	1/1	0.47	0.26	97,97,97,97	0
56	MG	14	3420	1/1	0.48	0.07	130,130,130,130	0
56	MG	1H	3028	1/1	0.49	0.43	115,115,115,115	0
56	MG	1G	1633	1/1	0.49	0.32	93,93,93,93	0
56	MG	14	3183	1/1	0.51	0.32	110,110,110,110	0
56	MG	13	1631	1/1	0.51	0.70	102,102,102,102	0
56	MG	1H	3322	1/1	0.51	0.22	96,96,96,96	0
56	MG	14	3307	1/1	0.52	0.25	87,87,87,87	0
56	MG	16	205	1/1	0.53	0.20	91,91,91,91	0
56	MG	14	3020	1/1	0.54	0.51	92,92,92,92	0
56	MG	1H	3154	1/1	0.54	0.22	91,91,91,91	0
56	MG	14	3262	1/1	0.54	0.29	81,81,81,81	0
56	MG	1G	1629	1/1	0.55	0.18	124,124,124,124	0
56	MG	13	1692	1/1	0.56	0.22	102,102,102,102	0
56	MG	13	1683	1/1	0.56	0.28	106,106,106,106	0
56	MG	14	3288	1/1	0.56	0.53	107,107,107,107	0
56	MG	29	302	1/1	0.56	0.35	108,108,108,108	0
56	MG	M5	101	1/1	0.56	0.25	94,94,94,94	0
56	MG	1H	3281	1/1	0.57	0.30	85,85,85,85	0
56	MG	14	3284	1/1	0.57	0.30	100,100,100,100	0
56	MG	1H	3313	1/1	0.57	0.24	93,93,93,93	0
56	MG	1H	3200	1/1	0.57	0.35	104,104,104,104	0
56	MG	13	1658	1/1	0.58	0.44	117,117,117,117	0
56	MG	14	3329	1/1	0.58	0.21	120,120,120,120	0
56	MG	1G	1644	1/1	0.59	0.19	115,115,115,115	0
56	MG	1H	3250	1/1	0.59	0.21	104,104,104,104	0
56	MG	13	1606	1/1	0.60	0.33	115,115,115,115	0
56	MG	1H	3243	1/1	0.60	0.36	93,93,93,93	0
56	MG	13	1745	1/1	0.61	0.39	121,121,121,121	0
56	MG	13	1708	1/1	0.61	0.34	119,119,119,119	0
56	MG	14	3181	1/1	0.61	0.21	100,100,100,100	0
56	MG	14	3295	1/1	0.61	0.62	95,95,95,95	0
56	MG	1H	3309	1/1	0.61	0.45	96,96,96,96	0
56	MG	13	1636	1/1	0.62	0.30	100,100,100,100	0
56	MG	1H	3158	1/1	0.62	0.46	104,104,104,104	0
56	MG	13	1629	1/1	0.62	0.45	106,106,106,106	0
56	MG	14	3025	1/1	0.62	0.17	116,116,116,116	0
56	MG	1H	3255	1/1	0.63	0.45	117,117,117,117	0
56	MG	1H	3270	1/1	0.63	0.48	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	3201	1/1	0.63	0.30	111,111,111,111	0
56	MG	14	3260	1/1	0.63	0.17	119,119,119,119	0
56	MG	1H	3332	1/1	0.63	0.42	90,90,90,90	0
56	MG	1H	3029	1/1	0.63	0.28	110,110,110,110	0
56	MG	13	1717	1/1	0.63	0.28	114,114,114,114	0
56	MG	1H	3328	1/1	0.64	0.54	87,87,87,87	0
56	MG	1G	1670	1/1	0.64	0.40	138,138,138,138	0
56	MG	1H	3272	1/1	0.65	0.27	96,96,96,96	0
56	MG	1H	3337	1/1	0.65	0.42	106,106,106,106	0
56	MG	1H	3395	1/1	0.65	0.17	118,118,118,118	0
56	MG	1H	3431	1/1	0.65	0.11	163,163,163,163	0
56	MG	1H	3148	1/1	0.65	0.18	79,79,79,79	0
56	MG	13	1664	1/1	0.65	0.28	103,103,103,103	0
56	MG	14	3163	1/1	0.65	0.18	105,105,105,105	0
56	MG	14	3150	1/1	0.66	0.33	80,80,80,80	0
56	MG	14	3019	1/1	0.66	0.22	96,96,96,96	0
56	MG	1H	3276	1/1	0.66	0.44	99,99,99,99	0
56	MG	39	303	1/1	0.66	0.66	87,87,87,87	0
56	MG	E5	101	1/1	0.66	0.23	98,98,98,98	0
56	MG	13	1627	1/1	0.66	0.28	101,101,101,101	0
56	MG	1G	1664	1/1	0.67	0.27	116,116,116,116	0
56	MG	1G	1667	1/1	0.67	0.24	119,119,119,119	0
56	MG	1H	3023	1/1	0.67	0.37	100,100,100,100	0
56	MG	14	3026	1/1	0.68	0.39	92,92,92,92	0
56	MG	14	3133	1/1	0.68	0.13	97,97,97,97	0
56	MG	13	1716	1/1	0.68	0.18	111,111,111,111	0
56	MG	14	3312	1/1	0.68	0.12	93,93,93,93	0
56	MG	1G	1645	1/1	0.68	0.31	113,113,113,113	0
56	MG	13	1744	1/1	0.68	0.41	132,132,132,132	0
56	MG	1H	3464	1/1	0.68	0.14	133,133,133,133	0
56	MG	1H	3306	1/1	0.68	0.60	81,81,81,81	0
56	MG	1H	3273	1/1	0.68	0.25	84,84,84,84	0
56	MG	1H	3311	1/1	0.68	0.48	109,109,109,109	0
56	MG	1H	3343	1/1	0.68	0.36	92,92,92,92	0
56	MG	13	1640	1/1	0.69	0.23	94,94,94,94	0
56	MG	1H	3326	1/1	0.69	0.54	117,117,117,117	0
56	MG	14	3235	1/1	0.69	0.14	83,83,83,83	0
56	MG	14	3029	1/1	0.69	0.22	97,97,97,97	0
56	MG	13	1748	1/1	0.69	0.09	140,140,140,140	0
56	MG	1H	3330	1/1	0.69	0.56	104,104,104,104	0
56	MG	14	3286	1/1	0.69	0.15	92,92,92,92	0
56	MG	1G	1642	1/1	0.69	0.22	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3087	1/1	0.69	0.18	69,69,69,69	0
56	MG	1H	3135	1/1	0.70	0.26	111,111,111,111	0
56	MG	13	1669	1/1	0.70	0.27	110,110,110,110	0
56	MG	14	3143	1/1	0.70	0.43	100,100,100,100	0
56	MG	1H	3143	1/1	0.70	0.44	99,99,99,99	0
56	MG	1H	3331	1/1	0.70	0.82	106,106,106,106	0
56	MG	2L	102	1/1	0.70	0.26	89,89,89,89	0
56	MG	14	3182	1/1	0.70	0.27	98,98,98,98	0
56	MG	13	1749	1/1	0.70	0.23	121,121,121,121	0
56	MG	14	3372	1/1	0.70	0.12	134,134,134,134	0
56	MG	13	1639	1/1	0.70	0.19	109,109,109,109	0
56	MG	14	3403	1/1	0.70	0.09	122,122,122,122	0
56	MG	14	3203	1/1	0.70	0.29	81,81,81,81	0
56	MG	14	3227	1/1	0.70	0.33	97,97,97,97	0
56	MG	13	1714	1/1	0.70	0.22	101,101,101,101	0
56	MG	14	3251	1/1	0.70	0.10	105,105,105,105	0
56	MG	1H	3186	1/1	0.70	0.35	93,93,93,93	0
56	MG	13	1666	1/1	0.71	0.31	105,105,105,105	0
56	MG	14	3319	1/1	0.71	0.29	118,118,118,118	0
56	MG	13	1651	1/1	0.71	0.23	100,100,100,100	0
56	MG	14	3356	1/1	0.71	0.25	118,118,118,118	0
56	MG	14	3272	1/1	0.71	0.32	95,95,95,95	0
56	MG	14	3376	1/1	0.71	0.13	119,119,119,119	0
56	MG	1H	3505	1/1	0.71	0.15	112,112,112,112	0
56	MG	1H	3124	1/1	0.71	0.19	72,72,72,72	0
56	MG	14	3416	1/1	0.71	0.43	126,126,126,126	0
56	MG	13	1675	1/1	0.71	0.19	121,121,121,121	0
56	MG	14	3291	1/1	0.71	0.18	115,115,115,115	0
56	MG	14	3236	1/1	0.71	0.10	99,99,99,99	0
56	MG	14	3297	1/1	0.71	0.24	96,96,96,96	0
56	MG	1H	3157	1/1	0.71	0.51	104,104,104,104	0
56	MG	14	3294	1/1	0.72	0.14	91,91,91,91	0
56	MG	14	3274	1/1	0.72	0.25	122,122,122,122	0
56	MG	1H	3251	1/1	0.72	0.15	93,93,93,93	0
56	MG	13	1688	1/1	0.72	0.33	93,93,93,93	0
56	MG	1H	3266	1/1	0.72	0.58	95,95,95,95	0
56	MG	1H	3179	1/1	0.72	0.40	96,96,96,96	0
56	MG	14	3232	1/1	0.73	0.29	103,103,103,103	0
56	MG	1H	3137	1/1	0.73	0.53	87,87,87,87	0
56	MG	1H	3491	1/1	0.73	0.16	93,93,93,93	0
56	MG	1H	3340	1/1	0.73	0.36	93,93,93,93	0
56	MG	1H	3153	1/1	0.73	0.40	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	1G	1649	1/1	0.73	0.27	105,105,105,105	0
56	MG	14	3265	1/1	0.73	0.29	88,88,88,88	0
56	MG	13	1718	1/1	0.73	0.41	96,96,96,96	0
56	MG	14	3317	1/1	0.73	0.28	98,98,98,98	0
56	MG	1G	1620	1/1	0.73	0.20	107,107,107,107	0
56	MG	1H	3026	1/1	0.73	0.34	94,94,94,94	0
56	MG	13	1656	1/1	0.74	0.42	103,103,103,103	0
56	MG	1H	3062	1/1	0.74	0.23	101,101,101,101	0
56	MG	14	3418	1/1	0.74	0.07	130,130,130,130	0
56	MG	13	1689	1/1	0.74	0.25	98,98,98,98	0
56	MG	29	301	1/1	0.74	0.64	101,101,101,101	0
56	MG	1G	1643	1/1	0.74	0.30	104,104,104,104	0
56	MG	14	3276	1/1	0.74	1.33	103,103,103,103	0
56	MG	14	3252	1/1	0.74	0.15	105,105,105,105	0
56	MG	14	3030	1/1	0.74	0.22	115,115,115,115	0
56	MG	1H	3106	1/1	0.75	0.34	95,95,95,95	0
56	MG	1H	3415	1/1	0.75	0.07	99,99,99,99	0
56	MG	1H	3428	1/1	0.75	0.06	123,123,123,123	0
56	MG	1H	3265	1/1	0.75	0.27	96,96,96,96	0
56	MG	1H	3296	1/1	0.75	0.21	86,86,86,86	0
56	MG	1H	3169	1/1	0.75	0.25	85,85,85,85	0
56	MG	1H	3346	1/1	0.75	0.61	106,106,106,106	0
56	MG	1H	3504	1/1	0.75	0.11	138,138,138,138	0
56	MG	1J	203	1/1	0.75	0.17	114,114,114,114	0
56	MG	14	3313	1/1	0.75	0.19	124,124,124,124	0
56	MG	14	3315	1/1	0.75	0.13	92,92,92,92	0
56	MG	14	3281	1/1	0.75	0.55	105,105,105,105	0
56	MG	14	3170	1/1	0.75	0.60	77,77,77,77	0
56	MG	14	3285	1/1	0.75	0.30	91,91,91,91	0
56	MG	14	3318	1/1	0.76	0.19	99,99,99,99	0
56	MG	1H	3152	1/1	0.76	0.31	93,93,93,93	0
56	MG	1G	1625	1/1	0.76	0.12	131,131,131,131	0
56	MG	14	3311	1/1	0.76	0.17	89,89,89,89	0
56	MG	14	3368	1/1	0.76	0.11	117,117,117,117	0
56	MG	13	1690	1/1	0.76	0.19	108,108,108,108	0
56	MG	13	1641	1/1	0.76	0.35	88,88,88,88	0
56	MG	32	301	1/1	0.76	0.46	120,120,120,120	0
56	MG	14	3264	1/1	0.76	0.30	89,89,89,89	0
56	MG	14	3158	1/1	0.77	0.15	93,93,93,93	0
56	MG	1H	3189	1/1	0.77	0.30	81,81,81,81	0
56	MG	1H	3407	1/1	0.77	0.07	115,115,115,115	0
56	MG	16	214	1/1	0.77	0.22	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1G	1604	1/1	0.77	0.23	142,142,142,142	0
56	MG	13	1685	1/1	0.77	0.17	112,112,112,112	0
56	MG	14	3196	1/1	0.77	0.34	99,99,99,99	0
56	MG	1H	3307	1/1	0.77	0.28	99,99,99,99	0
56	MG	1H	3206	1/1	0.77	0.14	53,53,53,53	0
56	MG	1G	1632	1/1	0.77	0.41	116,116,116,116	0
56	MG	13	1743	1/1	0.77	0.18	108,108,108,108	0
56	MG	1H	3467	1/1	0.77	0.10	106,106,106,106	0
56	MG	1H	3175	1/1	0.77	0.35	93,93,93,93	0
56	MG	14	3237	1/1	0.77	0.24	95,95,95,95	0
56	MG	14	3064	1/1	0.77	0.27	97,97,97,97	0
56	MG	1H	3147	1/1	0.77	0.32	94,94,94,94	0
56	MG	14	3255	1/1	0.77	0.41	99,99,99,99	0
56	MG	1H	3500	1/1	0.77	0.20	122,122,122,122	0
56	MG	13	1721	1/1	0.77	0.64	101,101,101,101	0
56	MG	14	3178	1/1	0.78	0.44	95,95,95,95	0
56	MG	14	3103	1/1	0.78	0.38	90,90,90,90	0
56	MG	39	302	1/1	0.78	0.30	118,118,118,118	0
56	MG	1H	3027	1/1	0.78	0.32	96,96,96,96	0
56	MG	14	3137	1/1	0.78	0.19	80,80,80,80	0
56	MG	13	1693	1/1	0.78	0.21	103,103,103,103	0
56	MG	14	3147	1/1	0.79	0.19	97,97,97,97	0
56	MG	1H	3476	1/1	0.79	0.12	93,93,93,93	0
56	MG	41	202	1/1	0.79	0.29	96,96,96,96	0
56	MG	L8	101	1/1	0.79	0.43	85,85,85,85	0
56	MG	14	3167	1/1	0.79	0.27	110,110,110,110	0
56	MG	13	1702	1/1	0.79	0.23	109,109,109,109	0
56	MG	14	3176	1/1	0.79	0.39	101,101,101,101	0
56	MG	1H	3267	1/1	0.79	0.34	84,84,84,84	0
56	MG	1G	1657	1/1	0.79	0.25	106,106,106,106	0
56	MG	1H	3072	1/1	0.79	0.29	80,80,80,80	0
56	MG	14	3080	1/1	0.79	0.41	88,88,88,88	0
56	MG	1H	3202	1/1	0.79	0.38	93,93,93,93	0
56	MG	1H	3129	1/1	0.79	0.41	90,90,90,90	0
56	MG	14	3275	1/1	0.79	0.27	105,105,105,105	0
56	MG	1H	3230	1/1	0.79	0.24	91,91,91,91	0
56	MG	1G	1640	1/1	0.79	0.49	106,106,106,106	0
56	MG	14	3320	1/1	0.79	0.22	96,96,96,96	0
56	MG	1H	3280	1/1	0.80	0.70	100,100,100,100	0
56	MG	2K	105	1/1	0.80	0.38	107,107,107,107	0
56	MG	14	3270	1/1	0.80	0.20	107,107,107,107	0
56	MG	1H	3132	1/1	0.80	0.18	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3305	1/1	0.80	0.61	104,104,104,104	0
56	MG	1H	3074	1/1	0.80	0.41	80,80,80,80	0
56	MG	1H	3013	1/1	0.80	0.41	104,104,104,104	0
56	MG	14	3422	1/1	0.80	0.09	132,132,132,132	0
56	MG	13	1694	1/1	0.80	0.10	121,121,121,121	0
56	MG	1H	3116	1/1	0.80	0.29	70,70,70,70	0
56	MG	14	3117	1/1	0.80	0.45	98,98,98,98	0
56	MG	14	3254	1/1	0.80	0.17	87,87,87,87	0
56	MG	1H	3034	1/1	0.80	0.34	96,96,96,96	0
56	MG	1H	3249	1/1	0.80	0.42	97,97,97,97	0
56	MG	13	1668	1/1	0.80	0.19	94,94,94,94	0
56	MG	1H	3292	1/1	0.81	0.23	72,72,72,72	0
56	MG	13	1734	1/1	0.81	0.15	133,133,133,133	0
56	MG	16	215	1/1	0.81	0.08	113,113,113,113	0
56	MG	14	3326	1/1	0.81	0.39	117,117,117,117	0
56	MG	1H	3300	1/1	0.81	0.35	87,87,87,87	0
56	MG	14	3280	1/1	0.81	0.31	95,95,95,95	0
56	MG	1G	1659	1/1	0.81	0.29	102,102,102,102	0
56	MG	I8	101	1/1	0.81	0.27	84,84,84,84	0
56	MG	1H	3107	1/1	0.81	0.28	85,85,85,85	0
56	MG	14	3144	1/1	0.81	0.35	93,93,93,93	0
56	MG	1H	3127	1/1	0.81	0.29	92,92,92,92	0
56	MG	14	3405	1/1	0.81	0.22	102,102,102,102	0
56	MG	14	3248	1/1	0.81	0.26	85,85,85,85	0
56	MG	14	3293	1/1	0.81	0.27	95,95,95,95	0
56	MG	1G	1673	1/1	0.81	0.14	108,108,108,108	0
56	MG	13	1684	1/1	0.81	0.33	106,106,106,106	0
56	MG	1H	3479	1/1	0.81	0.16	126,126,126,126	0
56	MG	1J	204	1/1	0.81	0.12	113,113,113,113	0
56	MG	1J	208	1/1	0.81	0.11	121,121,121,121	0
56	MG	1H	3262	1/1	0.81	0.30	89,89,89,89	0
56	MG	1H	3242	1/1	0.81	0.52	105,105,105,105	0
56	MG	1H	3499	1/1	0.81	0.11	110,110,110,110	0
56	MG	1H	3165	1/1	0.81	0.42	95,95,95,95	0
56	MG	1H	3314	1/1	0.81	0.37	76,76,76,76	0
56	MG	1H	3287	1/1	0.81	0.42	92,92,92,92	0
56	MG	14	3162	1/1	0.82	0.19	88,88,88,88	0
56	MG	1G	1628	1/1	0.82	0.21	118,118,118,118	0
56	MG	13	1722	1/1	0.82	0.10	85,85,85,85	0
56	MG	14	3370	1/1	0.82	0.13	110,110,110,110	0
56	MG	14	3169	1/1	0.82	0.29	93,93,93,93	0
56	MG	1H	3372	1/1	0.82	0.10	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3173	1/1	0.82	0.28	87,87,87,87	0
56	MG	14	3065	1/1	0.82	0.20	87,87,87,87	0
56	MG	1H	3126	1/1	0.82	0.32	79,79,79,79	0
56	MG	14	3261	1/1	0.82	0.34	83,83,83,83	0
56	MG	14	3301	1/1	0.82	0.29	83,83,83,83	0
56	MG	1H	3485	1/1	0.82	0.08	121,121,121,121	0
56	MG	1G	1680	1/1	0.82	0.11	140,140,140,140	0
56	MG	1G	1686	1/1	0.82	0.07	129,129,129,129	0
56	MG	1H	3490	1/1	0.82	0.13	125,125,125,125	0
56	MG	1J	206	1/1	0.82	0.12	123,123,123,123	0
56	MG	13	1695	1/1	0.82	0.15	112,112,112,112	0
56	MG	1H	3254	1/1	0.82	0.37	80,80,80,80	0
56	MG	14	3211	1/1	0.82	0.40	93,93,93,93	0
56	MG	1H	3232	1/1	0.82	0.32	80,80,80,80	0
56	MG	1H	3140	1/1	0.82	0.52	101,101,101,101	0
56	MG	14	3324	1/1	0.82	0.40	96,96,96,96	0
56	MG	2K	106	1/1	0.82	0.42	115,115,115,115	0
56	MG	14	3193	1/1	0.83	0.09	89,89,89,89	0
56	MG	14	3325	1/1	0.83	0.34	89,89,89,89	0
56	MG	1H	3503	1/1	0.83	0.12	116,116,116,116	0
56	MG	1H	3219	1/1	0.83	0.39	65,65,65,65	0
56	MG	14	3330	1/1	0.83	0.20	105,105,105,105	0
56	MG	1H	3111	1/1	0.83	0.43	91,91,91,91	0
56	MG	14	3204	1/1	0.83	0.13	80,80,80,80	0
56	MG	16	201	1/1	0.83	0.23	79,79,79,79	0
56	MG	1H	3128	1/1	0.83	0.21	88,88,88,88	0
56	MG	14	3374	1/1	0.83	0.08	113,113,113,113	0
56	MG	52	201	1/1	0.83	0.12	107,107,107,107	0
56	MG	14	3151	1/1	0.83	0.24	91,91,91,91	0
56	MG	1H	3477	1/1	0.83	0.10	108,108,108,108	0
56	MG	3I	202	1/1	0.83	0.45	101,101,101,101	0
56	MG	1H	3294	1/1	0.83	0.47	100,100,100,100	0
56	MG	1H	3055	1/1	0.83	0.16	82,82,82,82	0
56	MG	1G	1648	1/1	0.83	0.23	100,100,100,100	0
56	MG	14	3253	1/1	0.83	0.29	82,82,82,82	0
56	MG	1H	3193	1/1	0.83	0.36	95,95,95,95	0
56	MG	13	1682	1/1	0.83	0.28	116,116,116,116	0
56	MG	14	3256	1/1	0.83	0.19	97,97,97,97	0
56	MG	14	3175	1/1	0.83	0.38	99,99,99,99	0
56	MG	1H	3168	1/1	0.83	0.30	83,83,83,83	0
56	MG	1G	1663	1/1	0.83	0.21	92,92,92,92	0
56	MG	1G	1623	1/1	0.83	0.24	122,122,122,122	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	13	1630	1/1	0.83	0.12	74,74,74,74	0
56	MG	25	201	1/1	0.83	0.43	111,111,111,111	0
56	MG	14	3267	1/1	0.83	0.16	110,110,110,110	0
56	MG	1G	1668	1/1	0.83	0.22	111,111,111,111	0
56	MG	1G	1687	1/1	0.84	0.30	135,135,135,135	0
56	MG	1H	3246	1/1	0.84	0.22	78,78,78,78	0
56	MG	1H	3199	1/1	0.84	0.51	99,99,99,99	0
56	MG	14	3168	1/1	0.84	0.23	67,67,67,67	0
56	MG	6A	101	1/1	0.84	0.21	138,138,138,138	0
56	MG	1G	1638	1/1	0.84	0.43	95,95,95,95	0
56	MG	2L	103	1/1	0.84	0.28	115,115,115,115	0
56	MG	1H	3081	1/1	0.84	0.25	77,77,77,77	0
56	MG	14	3352	1/1	0.84	0.12	74,74,74,74	0
56	MG	1H	3391	1/1	0.84	0.09	96,96,96,96	0
56	MG	1H	3177	1/1	0.84	0.44	98,98,98,98	0
56	MG	1H	3012	1/1	0.84	0.51	93,93,93,93	0
56	MG	1H	3185	1/1	0.84	0.38	88,88,88,88	0
56	MG	1H	3423	1/1	0.84	0.14	102,102,102,102	0
56	MG	14	3279	1/1	0.84	0.25	87,87,87,87	0
56	MG	14	3185	1/1	0.84	0.21	90,90,90,90	0
56	MG	1H	3283	1/1	0.84	0.38	112,112,112,112	0
56	MG	1H	3285	1/1	0.84	0.39	88,88,88,88	0
56	MG	14	3411	1/1	0.84	0.30	104,104,104,104	0
56	MG	1H	3286	1/1	0.84	0.26	85,85,85,85	0
56	MG	14	3202	1/1	0.84	0.26	100,100,100,100	0
56	MG	1H	3258	1/1	0.84	0.31	93,93,93,93	0
56	MG	14	3104	1/1	0.84	0.27	81,81,81,81	0
56	MG	1H	3288	1/1	0.84	0.28	87,87,87,87	0
56	MG	13	1699	1/1	0.84	0.50	102,102,102,102	0
56	MG	14	3136	1/1	0.84	0.10	112,112,112,112	0
56	MG	1H	3122	1/1	0.84	0.30	94,94,94,94	0
56	MG	14	3142	1/1	0.84	0.46	100,100,100,100	0
56	MG	1G	1669	1/1	0.84	0.28	112,112,112,112	0
56	MG	1H	3190	1/1	0.84	0.17	77,77,77,77	0
56	MG	1H	3487	1/1	0.84	0.29	126,126,126,126	0
56	MG	15	201	1/1	0.84	0.54	102,102,102,102	0
56	MG	13	1687	1/1	0.84	0.28	109,109,109,109	0
56	MG	1G	1684	1/1	0.84	0.12	124,124,124,124	0
56	MG	1H	3342	1/1	0.84	0.17	92,92,92,92	0
56	MG	1H	3344	1/1	0.85	0.42	95,95,95,95	0
56	MG	14	3208	1/1	0.85	0.10	84,84,84,84	0
56	MG	14	3209	1/1	0.85	0.33	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3318	1/1	0.85	0.30	87,87,87,87	0
56	MG	1H	3321	1/1	0.85	0.27	99,99,99,99	0
56	MG	1H	3061	1/1	0.85	0.34	85,85,85,85	0
56	MG	1H	3488	1/1	0.85	0.15	114,114,114,114	0
56	MG	P8	101	1/1	0.85	0.41	84,84,84,84	0
56	MG	1G	1602	1/1	0.85	0.39	118,118,118,118	0
56	MG	14	3247	1/1	0.85	0.14	75,75,75,75	0
56	MG	1H	3489	1/1	0.85	0.12	69,69,69,69	0
56	MG	14	3058	1/1	0.85	0.16	128,128,128,128	0
56	MG	14	3412	1/1	0.85	0.08	108,108,108,108	0
56	MG	1H	3298	1/1	0.85	0.33	92,92,92,92	0
56	MG	1H	3146	1/1	0.85	0.32	83,83,83,83	0
56	MG	14	3068	1/1	0.85	0.39	86,86,86,86	0
56	MG	14	3308	1/1	0.85	0.21	106,106,106,106	0
56	MG	1H	3493	1/1	0.85	0.25	130,130,130,130	0
56	MG	14	3093	1/1	0.85	0.51	103,103,103,103	0
56	MG	13	1704	1/1	0.85	0.69	118,118,118,118	0
56	MG	1H	3182	1/1	0.85	0.36	74,74,74,74	0
56	MG	13	1740	1/1	0.85	0.17	106,106,106,106	0
56	MG	1H	3141	1/1	0.85	0.44	89,89,89,89	0
56	MG	1H	3447	1/1	0.85	0.17	105,105,105,105	0
56	MG	1G	1639	1/1	0.85	0.17	89,89,89,89	0
56	MG	14	3200	1/1	0.85	0.18	85,85,85,85	0
56	MG	1H	3092	1/1	0.85	0.30	70,70,70,70	0
56	MG	1H	3174	1/1	0.85	0.31	78,78,78,78	0
56	MG	1H	3256	1/1	0.85	0.26	88,88,88,88	0
56	MG	1H	3030	1/1	0.86	0.19	79,79,79,79	0
56	MG	14	3197	1/1	0.86	0.50	119,119,119,119	0
56	MG	13	1647	1/1	0.86	0.17	93,93,93,93	0
56	MG	1G	1675	1/1	0.86	0.47	99,99,99,99	0
56	MG	1H	3102	1/1	0.86	0.28	67,67,67,67	0
56	MG	14	3278	1/1	0.86	0.26	85,85,85,85	0
56	MG	1H	3434	1/1	0.86	0.19	130,130,130,130	0
56	MG	1H	3439	1/1	0.86	0.15	92,92,92,92	0
56	MG	1H	3260	1/1	0.86	0.28	76,76,76,76	0
56	MG	1G	1635	1/1	0.86	0.39	118,118,118,118	0
56	MG	14	3148	1/1	0.86	0.11	117,117,117,117	0
56	MG	1H	3339	1/1	0.86	0.33	90,90,90,90	0
56	MG	13	1650	1/1	0.86	0.15	87,87,87,87	0
56	MG	14	3152	1/1	0.86	0.23	80,80,80,80	0
56	MG	1H	3263	1/1	0.86	0.22	106,106,106,106	0
56	MG	16	206	1/1	0.86	0.25	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	13	1719	1/1	0.86	0.13	95,95,95,95	0
56	MG	13	1663	1/1	0.86	0.16	87,87,87,87	0
56	MG	31	301	1/1	0.86	0.10	92,92,92,92	0
56	MG	1J	202	1/1	0.86	0.12	157,157,157,157	0
56	MG	1H	3317	1/1	0.86	0.79	85,85,85,85	0
56	MG	1H	3290	1/1	0.86	0.49	92,92,92,92	0
56	MG	1J	205	1/1	0.86	0.23	101,101,101,101	0
56	MG	1G	1650	1/1	0.86	0.36	101,101,101,101	0
56	MG	1G	1653	1/1	0.86	0.11	106,106,106,106	0
56	MG	13	1670	1/1	0.86	0.33	88,88,88,88	0
56	MG	13	1605	1/1	0.86	0.18	93,93,93,93	0
56	MG	1H	3178	1/1	0.86	0.27	76,76,76,76	0
56	MG	1G	1603	1/1	0.86	0.17	118,118,118,118	0
56	MG	1H	3007	1/1	0.86	0.33	97,97,97,97	0
56	MG	1G	1615	1/1	0.86	0.23	115,115,115,115	0
56	MG	45	201	1/1	0.86	0.18	113,113,113,113	0
56	MG	C5	201	1/1	0.86	0.23	123,123,123,123	0
56	MG	14	3266	1/1	0.86	0.38	80,80,80,80	0
56	MG	1H	3492	1/1	0.86	0.23	120,120,120,120	0
56	MG	1H	3284	1/1	0.87	0.27	70,70,70,70	0
56	MG	13	1691	1/1	0.87	0.30	95,95,95,95	0
56	MG	14	3337	1/1	0.87	0.12	76,76,76,76	0
56	MG	1H	3478	1/1	0.87	0.09	118,118,118,118	0
56	MG	1H	3222	1/1	0.87	0.30	79,79,79,79	0
56	MG	1H	3480	1/1	0.87	0.14	109,109,109,109	0
56	MG	1H	3223	1/1	0.87	0.18	82,82,82,82	0
56	MG	88	202	1/1	0.87	0.30	77,77,77,77	0
56	MG	14	3283	1/1	0.87	0.21	98,98,98,98	0
56	MG	1H	3155	1/1	0.87	0.17	78,78,78,78	0
56	MG	14	3381	1/1	0.87	0.22	101,101,101,101	0
56	MG	13	1622	1/1	0.87	0.32	102,102,102,102	0
56	MG	14	3398	1/1	0.87	0.06	127,127,127,127	0
56	MG	1H	3083	1/1	0.87	0.32	92,92,92,92	0
56	MG	1H	3399	1/1	0.87	0.09	59,59,59,59	0
56	MG	1H	3323	1/1	0.87	0.11	110,110,110,110	0
56	MG	1H	3086	1/1	0.87	0.39	72,72,72,72	0
56	MG	14	3413	1/1	0.87	0.31	110,110,110,110	0
56	MG	13	1624	1/1	0.87	0.22	95,95,95,95	0
56	MG	14	3249	1/1	0.87	0.27	97,97,97,97	0
56	MG	1H	3494	1/1	0.87	0.36	121,121,121,121	0
56	MG	1G	1665	1/1	0.87	0.30	110,110,110,110	0
56	MG	14	3305	1/1	0.87	0.14	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3174	1/1	0.87	0.18	93,93,93,93	0
56	MG	14	3066	1/1	0.87	0.30	96,96,96,96	0
56	MG	5E	201	1/1	0.87	0.20	104,104,104,104	0
56	MG	1H	3198	1/1	0.87	0.38	90,90,90,90	0
56	MG	1J	207	1/1	0.87	0.27	147,147,147,147	0
56	MG	1H	3015	1/1	0.87	0.24	71,71,71,71	0
56	MG	1H	3335	1/1	0.87	0.42	85,85,85,85	0
56	MG	14	3316	1/1	0.87	0.54	103,103,103,103	0
56	MG	1G	1671	1/1	0.87	0.40	120,120,120,120	0
56	MG	13	1665	1/1	0.87	0.12	91,91,91,91	0
56	MG	14	3123	1/1	0.87	0.16	75,75,75,75	0
56	MG	14	3195	1/1	0.87	0.38	100,100,100,100	0
56	MG	25	202	1/1	0.87	0.33	125,125,125,125	0
56	MG	2K	104	1/1	0.87	0.44	90,90,90,90	0
56	MG	1G	1634	1/1	0.87	0.48	120,120,120,120	0
56	MG	13	1621	1/1	0.87	0.39	115,115,115,115	0
56	MG	14	3328	1/1	0.87	0.12	111,111,111,111	0
57	ZN	G8	202	1/1	0.87	0.31	192,192,192,192	0
56	MG	1H	3282	1/1	0.88	0.15	107,107,107,107	0
56	MG	1G	1679	1/1	0.88	0.09	108,108,108,108	0
56	MG	1H	3144	1/1	0.88	0.23	80,80,80,80	0
56	MG	1G	1682	1/1	0.88	0.09	141,141,141,141	0
56	MG	14	3164	1/1	0.88	0.21	91,91,91,91	0
56	MG	1H	3204	1/1	0.88	0.75	104,104,104,104	0
56	MG	14	3407	1/1	0.88	0.08	116,116,116,116	0
56	MG	13	1680	1/1	0.88	0.19	124,124,124,124	0
56	MG	1G	1652	1/1	0.88	0.26	103,103,103,103	0
56	MG	1H	3381	1/1	0.88	0.09	89,89,89,89	0
56	MG	14	3273	1/1	0.88	0.14	87,87,87,87	0
56	MG	14	3221	1/1	0.88	0.20	87,87,87,87	0
56	MG	1H	3471	1/1	0.88	0.11	128,128,128,128	0
56	MG	13	1652	1/1	0.88	0.23	98,98,98,98	0
56	MG	14	3233	1/1	0.88	0.30	118,118,118,118	0
56	MG	1H	3136	1/1	0.88	0.15	71,71,71,71	0
56	MG	1G	1636	1/1	0.88	0.08	115,115,115,115	0
56	MG	13	1672	1/1	0.88	0.20	100,100,100,100	0
56	MG	14	3282	1/1	0.88	0.31	90,90,90,90	0
56	MG	13	1706	1/1	0.88	0.91	103,103,103,103	0
56	MG	14	3023	1/1	0.88	0.15	86,86,86,86	0
56	MG	13	1654	1/1	0.88	0.28	123,123,123,123	0
56	MG	14	3343	1/1	0.88	0.12	89,89,89,89	0
56	MG	14	3346	1/1	0.88	0.11	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	1G	1641	1/1	0.88	0.29	90,90,90,90	0
56	MG	49	201	1/1	0.88	0.10	143,143,143,143	0
56	MG	14	3354	1/1	0.88	0.06	126,126,126,126	0
56	MG	14	3187	1/1	0.88	0.36	100,100,100,100	0
56	MG	14	3363	1/1	0.88	0.06	117,117,117,117	0
56	MG	35	201	1/1	0.88	0.21	91,91,91,91	0
56	MG	14	3192	1/1	0.88	0.14	84,84,84,84	0
56	MG	45	202	1/1	0.88	0.53	82,82,82,82	0
56	MG	14	3369	1/1	0.88	0.18	105,105,105,105	0
56	MG	13	1679	1/1	0.88	0.18	98,98,98,98	0
56	MG	1H	3295	1/1	0.88	0.50	92,92,92,92	0
56	MG	1H	3118	1/1	0.88	0.30	76,76,76,76	0
56	MG	1H	3345	1/1	0.89	0.31	100,100,100,100	0
56	MG	13	1674	1/1	0.89	0.23	118,118,118,118	0
56	MG	1H	3225	1/1	0.89	0.21	69,69,69,69	0
56	MG	14	3166	1/1	0.89	0.14	106,106,106,106	0
56	MG	1H	3457	1/1	0.89	0.05	113,113,113,113	0
56	MG	14	3125	1/1	0.89	0.27	101,101,101,101	0
56	MG	14	3289	1/1	0.89	0.18	86,86,86,86	0
56	MG	14	3130	1/1	0.89	0.10	71,71,71,71	0
56	MG	13	1752	1/1	0.89	0.51	92,92,92,92	0
56	MG	1G	1647	1/1	0.89	0.32	86,86,86,86	0
56	MG	1H	3031	1/1	0.89	0.33	89,89,89,89	0
56	MG	11	302	1/1	0.89	0.25	66,66,66,66	0
56	MG	1H	3237	1/1	0.89	0.17	70,70,70,70	0
56	MG	14	3177	1/1	0.89	0.32	111,111,111,111	0
56	MG	14	3268	1/1	0.89	0.19	100,100,100,100	0
56	MG	14	3371	1/1	0.89	0.21	101,101,101,101	0
56	MG	14	3231	1/1	0.89	0.21	93,93,93,93	0
56	MG	1H	3104	1/1	0.89	0.22	78,78,78,78	0
56	MG	13	1607	1/1	0.89	0.19	78,78,78,78	0
56	MG	1H	3245	1/1	0.89	0.38	96,96,96,96	0
56	MG	14	3149	1/1	0.89	0.21	79,79,79,79	0
56	MG	1H	3210	1/1	0.89	0.17	69,69,69,69	0
56	MG	14	3277	1/1	0.89	0.20	90,90,90,90	0
56	MG	1H	3502	1/1	0.89	0.29	118,118,118,118	0
56	MG	13	1676	1/1	0.89	0.18	111,111,111,111	0
56	MG	13	1727	1/1	0.89	0.24	121,121,121,121	0
56	MG	14	3250	1/1	0.89	0.23	86,86,86,86	0
57	ZN	C5	202	1/1	0.89	0.11	189,189,189,189	0
56	MG	1G	1656	1/1	0.90	0.30	103,103,103,103	0
56	MG	13	1632	1/1	0.90	0.16	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	3238	1/1	0.90	0.32	84,84,84,84	0
56	MG	14	3269	1/1	0.90	0.31	102,102,102,102	0
56	MG	1G	1661	1/1	0.90	0.26	105,105,105,105	0
56	MG	14	3355	1/1	0.90	0.18	102,102,102,102	0
56	MG	13	1644	1/1	0.90	0.12	96,96,96,96	0
56	MG	14	3076	1/1	0.90	0.11	93,93,93,93	0
56	MG	1G	1605	1/1	0.90	0.17	98,98,98,98	0
56	MG	14	3081	1/1	0.90	0.31	90,90,90,90	0
56	MG	1G	1606	1/1	0.90	0.27	129,129,129,129	0
56	MG	1G	1666	1/1	0.90	0.36	89,89,89,89	0
56	MG	13	1646	1/1	0.90	0.24	104,104,104,104	0
56	MG	14	3112	1/1	0.90	0.12	98,98,98,98	0
56	MG	1H	3138	1/1	0.90	0.40	94,94,94,94	0
56	MG	14	3379	1/1	0.90	0.09	77,77,77,77	0
56	MG	1H	3268	1/1	0.90	0.50	125,125,125,125	0
56	MG	14	3383	1/1	0.90	0.16	98,98,98,98	0
56	MG	14	3387	1/1	0.90	0.10	76,76,76,76	0
56	MG	1H	3009	1/1	0.90	0.20	69,69,69,69	0
56	MG	1H	3430	1/1	0.90	0.10	116,116,116,116	0
56	MG	1H	3209	1/1	0.90	0.15	82,82,82,82	0
56	MG	1H	3184	1/1	0.90	0.19	107,107,107,107	0
56	MG	1H	3274	1/1	0.90	0.57	100,100,100,100	0
56	MG	14	3287	1/1	0.90	0.21	95,95,95,95	0
56	MG	1H	3071	1/1	0.90	0.12	94,94,94,94	0
56	MG	14	3217	1/1	0.90	0.80	82,82,82,82	0
56	MG	14	3415	1/1	0.90	0.40	107,107,107,107	0
56	MG	1H	3304	1/1	0.90	0.39	114,114,114,114	0
56	MG	1H	3277	1/1	0.90	0.47	109,109,109,109	0
56	MG	14	3419	1/1	0.90	0.24	112,112,112,112	0
56	MG	1H	3466	1/1	0.90	0.12	94,94,94,94	0
56	MG	1H	3279	1/1	0.90	0.25	80,80,80,80	0
56	MG	14	3296	1/1	0.90	0.20	107,107,107,107	0
56	MG	1H	3469	1/1	0.90	0.07	106,106,106,106	0
56	MG	16	207	1/1	0.90	0.37	84,84,84,84	0
56	MG	14	3303	1/1	0.90	0.11	100,100,100,100	0
56	MG	13	1618	1/1	0.90	0.26	86,86,86,86	0
56	MG	14	3306	1/1	0.90	0.30	93,93,93,93	0
56	MG	1H	3473	1/1	0.90	0.21	127,127,127,127	0
56	MG	1J	209	1/1	0.90	0.07	125,125,125,125	0
56	MG	14	3239	1/1	0.90	0.23	166,166,166,166	0
56	MG	14	3153	1/1	0.90	0.17	70,70,70,70	0
56	MG	1H	3308	1/1	0.90	0.25	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	3161	1/1	0.90	0.20	104,104,104,104	0
56	MG	14	3013	1/1	0.90	0.17	88,88,88,88	0
56	MG	14	3017	1/1	0.90	0.15	91,91,91,91	0
56	MG	13	1696	1/1	0.90	0.29	108,108,108,108	0
56	MG	1H	3077	1/1	0.90	0.25	67,67,67,67	0
56	MG	14	3022	1/1	0.90	0.48	107,107,107,107	0
56	MG	1H	3108	1/1	0.90	0.22	86,86,86,86	0
56	MG	1H	3366	1/1	0.90	0.12	60,60,60,60	0
56	MG	I8	102	1/1	0.90	0.41	64,64,64,64	0
56	MG	14	3028	1/1	0.90	0.14	98,98,98,98	0
56	MG	13	1707	1/1	0.90	0.25	104,104,104,104	0
56	MG	1H	3316	1/1	0.90	0.57	94,94,94,94	0
56	MG	14	3037	1/1	0.90	0.20	79,79,79,79	0
56	MG	2K	107	1/1	0.91	0.41	106,106,106,106	0
56	MG	14	3388	1/1	0.91	0.12	85,85,85,85	0
56	MG	14	3047	1/1	0.91	0.14	66,66,66,66	0
56	MG	14	3395	1/1	0.91	0.09	96,96,96,96	0
56	MG	14	3396	1/1	0.91	0.16	119,119,119,119	0
56	MG	14	3055	1/1	0.91	0.42	85,85,85,85	0
56	MG	1H	3191	1/1	0.91	0.34	87,87,87,87	0
56	MG	14	3154	1/1	0.91	0.23	86,86,86,86	0
56	MG	1H	3329	1/1	0.91	0.34	99,99,99,99	0
56	MG	14	3207	1/1	0.91	0.14	68,68,68,68	0
56	MG	14	3159	1/1	0.91	0.13	112,112,112,112	0
56	MG	14	3271	1/1	0.91	0.12	87,87,87,87	0
56	MG	13	1637	1/1	0.91	0.26	96,96,96,96	0
56	MG	14	3210	1/1	0.91	0.37	98,98,98,98	0
56	MG	1H	3098	1/1	0.91	0.23	72,72,72,72	0
56	MG	1H	3100	1/1	0.91	0.27	86,86,86,86	0
56	MG	1G	1609	1/1	0.91	0.12	97,97,97,97	0
56	MG	1G	1610	1/1	0.91	0.13	115,115,115,115	0
56	MG	14	3423	1/1	0.91	0.10	133,133,133,133	0
56	MG	14	3424	1/1	0.91	0.43	116,116,116,116	0
56	MG	1G	1688	1/1	0.91	0.13	117,117,117,117	0
56	MG	1H	3334	1/1	0.91	0.50	99,99,99,99	0
56	MG	1H	3312	1/1	0.91	0.37	79,79,79,79	0
56	MG	1G	1655	1/1	0.91	0.21	111,111,111,111	0
56	MG	14	3109	1/1	0.91	0.32	89,89,89,89	0
56	MG	16	204	1/1	0.91	0.40	99,99,99,99	0
56	MG	1H	3181	1/1	0.91	0.35	74,74,74,74	0
56	MG	1H	3426	1/1	0.91	0.13	92,92,92,92	0
56	MG	1H	3133	1/1	0.91	0.14	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3018	1/1	0.91	0.13	70,70,70,70	0
56	MG	13	1677	1/1	0.91	0.39	98,98,98,98	0
56	MG	14	3360	1/1	0.91	0.06	92,92,92,92	0
56	MG	1H	3241	1/1	0.91	0.21	80,80,80,80	0
56	MG	13	1713	1/1	0.91	0.12	119,119,119,119	0
56	MG	13	1724	1/1	0.91	0.06	102,102,102,102	0
56	MG	13	1662	1/1	0.91	0.11	94,94,94,94	0
56	MG	1H	3448	1/1	0.91	0.14	97,97,97,97	0
56	MG	1H	3211	1/1	0.91	0.14	76,76,76,76	0
56	MG	14	3259	1/1	0.91	0.15	100,100,100,100	0
56	MG	14	3375	1/1	0.91	0.06	102,102,102,102	0
56	MG	1H	3358	1/1	0.91	0.15	76,76,76,76	0
56	MG	14	3302	1/1	0.91	0.19	92,92,92,92	0
56	MG	1H	3496	1/1	0.91	0.04	131,131,131,131	0
56	MG	14	3304	1/1	0.91	0.33	121,121,121,121	0
56	MG	1H	3338	1/1	0.92	0.27	110,110,110,110	0
56	MG	1H	3432	1/1	0.92	0.06	113,113,113,113	0
56	MG	1H	3005	1/1	0.92	0.20	70,70,70,70	0
56	MG	14	3218	1/1	0.92	0.13	75,75,75,75	0
56	MG	1H	3495	1/1	0.92	0.32	91,91,91,91	0
56	MG	1H	3437	1/1	0.92	0.06	109,109,109,109	0
56	MG	1H	3438	1/1	0.92	0.05	82,82,82,82	0
56	MG	14	3380	1/1	0.92	0.09	97,97,97,97	0
56	MG	1H	3149	1/1	0.92	0.54	99,99,99,99	0
56	MG	1G	1611	1/1	0.92	0.18	105,105,105,105	0
56	MG	1G	1613	1/1	0.92	0.22	117,117,117,117	0
56	MG	1H	3291	1/1	0.92	0.29	77,77,77,77	0
56	MG	14	3160	1/1	0.92	0.32	85,85,85,85	0
56	MG	14	3394	1/1	0.92	0.07	93,93,93,93	0
56	MG	14	3039	1/1	0.92	0.26	68,68,68,68	0
56	MG	14	3243	1/1	0.92	0.10	91,91,91,91	0
56	MG	14	3246	1/1	0.92	0.21	75,75,75,75	0
56	MG	1G	1617	1/1	0.92	0.27	110,110,110,110	0
56	MG	14	3053	1/1	0.92	0.17	98,98,98,98	0
56	MG	1H	3501	1/1	0.92	0.17	107,107,107,107	0
56	MG	14	3409	1/1	0.92	0.07	114,114,114,114	0
56	MG	14	3056	1/1	0.92	0.11	92,92,92,92	0
56	MG	13	1711	1/1	0.92	0.63	126,126,126,126	0
56	MG	1H	3194	1/1	0.92	0.20	104,104,104,104	0
56	MG	13	1703	1/1	0.92	0.37	96,96,96,96	0
56	MG	14	3309	1/1	0.92	0.48	87,87,87,87	0
56	MG	1H	3320	1/1	0.92	0.73	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3354	1/1	0.92	0.14	64,64,64,64	0
56	MG	1G	1674	1/1	0.92	0.15	111,111,111,111	0
56	MG	14	3258	1/1	0.92	0.13	104,104,104,104	0
56	MG	1H	3278	1/1	0.92	0.29	101,101,101,101	0
56	MG	1H	3297	1/1	0.92	0.10	86,86,86,86	0
56	MG	13	1686	1/1	0.92	0.29	134,134,134,134	0
56	MG	14	3094	1/1	0.92	0.20	83,83,83,83	0
56	MG	14	3098	1/1	0.92	0.28	74,74,74,74	0
56	MG	14	3321	1/1	0.92	0.27	99,99,99,99	0
56	MG	14	3102	1/1	0.92	0.36	93,93,93,93	0
56	MG	1H	3097	1/1	0.92	0.20	89,89,89,89	0
56	MG	1H	3041	1/1	0.92	0.33	67,67,67,67	0
56	MG	14	3107	1/1	0.92	0.21	80,80,80,80	0
56	MG	13	1667	1/1	0.92	0.30	147,147,147,147	0
56	MG	11	301	1/1	0.92	0.32	62,62,62,62	0
56	MG	1H	3162	1/1	0.92	0.24	74,74,74,74	0
56	MG	1H	3163	1/1	0.92	0.20	88,88,88,88	0
56	MG	14	3344	1/1	0.92	0.11	82,82,82,82	0
56	MG	1H	3101	1/1	0.92	0.21	49,49,49,49	0
56	MG	78	201	1/1	0.92	0.15	67,67,67,67	0
56	MG	1H	3420	1/1	0.92	0.10	84,84,84,84	0
56	MG	1H	3333	1/1	0.92	0.34	91,91,91,91	0
56	MG	14	3012	1/1	0.92	0.23	94,94,94,94	0
56	MG	14	3140	1/1	0.92	0.34	93,93,93,93	0
56	MG	1H	3056	1/1	0.92	0.30	72,72,72,72	0
56	MG	14	3365	1/1	0.92	0.10	80,80,80,80	0
56	MG	14	3367	1/1	0.92	0.06	111,111,111,111	0
56	MG	1H	3310	1/1	0.92	0.37	96,96,96,96	0
56	MG	1H	3216	1/1	0.92	0.22	77,77,77,77	0
56	MG	1G	1622	1/1	0.93	0.12	89,89,89,89	0
56	MG	1H	3020	1/1	0.93	0.15	90,90,90,90	0
56	MG	14	3341	1/1	0.93	0.07	78,78,78,78	0
56	MG	1H	3374	1/1	0.93	0.16	71,71,71,71	0
56	MG	1H	3375	1/1	0.93	0.18	76,76,76,76	0
56	MG	1H	3378	1/1	0.93	0.09	94,94,94,94	0
56	MG	1H	3166	1/1	0.93	0.17	73,73,73,73	0
56	MG	1H	3167	1/1	0.93	0.15	92,92,92,92	0
56	MG	1H	3049	1/1	0.93	0.33	60,60,60,60	0
56	MG	14	3156	1/1	0.93	0.18	99,99,99,99	0
56	MG	1H	3247	1/1	0.93	0.28	81,81,81,81	0
56	MG	1H	3248	1/1	0.93	0.23	76,76,76,76	0
56	MG	1G	1637	1/1	0.93	0.16	104,104,104,104	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3263	1/1	0.93	0.26	88,88,88,88	0
56	MG	1H	3410	1/1	0.93	0.12	73,73,73,73	0
56	MG	14	3024	1/1	0.93	0.28	73,73,73,73	0
56	MG	1H	3319	1/1	0.93	0.27	90,90,90,90	0
56	MG	1H	3417	1/1	0.93	0.12	90,90,90,90	0
56	MG	14	3027	1/1	0.93	0.20	84,84,84,84	0
56	MG	1H	3418	1/1	0.93	0.06	134,134,134,134	0
56	MG	1H	3201	1/1	0.93	0.32	121,121,121,121	0
56	MG	1H	3050	1/1	0.93	0.27	80,80,80,80	0
56	MG	1H	3051	1/1	0.93	0.24	53,53,53,53	0
56	MG	1H	3252	1/1	0.93	0.21	69,69,69,69	0
56	MG	1H	3002	1/1	0.93	0.23	76,76,76,76	0
56	MG	1H	3327	1/1	0.93	0.39	91,91,91,91	0
56	MG	1H	3003	1/1	0.93	0.21	75,75,75,75	0
56	MG	13	1701	1/1	0.93	0.57	103,103,103,103	0
56	MG	1H	3150	1/1	0.93	0.36	86,86,86,86	0
56	MG	14	3063	1/1	0.93	0.18	104,104,104,104	0
56	MG	1H	3293	1/1	0.93	0.17	85,85,85,85	0
56	MG	13	1645	1/1	0.93	0.38	86,86,86,86	0
56	MG	14	3184	1/1	0.93	0.34	94,94,94,94	0
56	MG	1H	3442	1/1	0.93	0.12	57,57,57,57	0
56	MG	14	3186	1/1	0.93	0.21	86,86,86,86	0
56	MG	1H	3217	1/1	0.93	0.12	91,91,91,91	0
56	MG	14	3072	1/1	0.93	0.17	90,90,90,90	0
56	MG	13	1660	1/1	0.93	0.14	94,94,94,94	0
56	MG	14	3078	1/1	0.93	0.11	97,97,97,97	0
56	MG	1G	1660	1/1	0.93	0.43	97,97,97,97	0
56	MG	1H	3264	1/1	0.93	0.29	96,96,96,96	0
56	MG	14	3292	1/1	0.93	0.17	90,90,90,90	0
56	MG	14	3417	1/1	0.93	0.06	148,148,148,148	0
56	MG	14	3083	1/1	0.93	0.26	81,81,81,81	0
56	MG	14	3091	1/1	0.93	0.29	87,87,87,87	0
56	MG	78	202	1/1	0.93	0.20	97,97,97,97	0
56	MG	1H	3458	1/1	0.93	0.13	93,93,93,93	0
56	MG	1H	3461	1/1	0.93	0.08	110,110,110,110	0
56	MG	14	3299	1/1	0.93	0.58	84,84,84,84	0
56	MG	1H	3336	1/1	0.93	0.30	102,102,102,102	0
56	MG	1H	3183	1/1	0.93	0.29	83,83,83,83	0
56	MG	13	1661	1/1	0.93	0.29	91,91,91,91	0
56	MG	1H	3302	1/1	0.93	0.23	90,90,90,90	0
56	MG	1H	3470	1/1	0.93	0.23	99,99,99,99	0
56	MG	14	3213	1/1	0.93	0.17	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	3303	1/1	0.93	0.30	76,76,76,76	0
56	MG	14	3113	1/1	0.93	0.35	80,80,80,80	0
56	MG	13	1619	1/1	0.93	0.57	103,103,103,103	0
56	MG	14	3224	1/1	0.93	0.09	80,80,80,80	0
56	MG	39	301	1/1	0.93	0.19	111,111,111,111	0
56	MG	1H	3228	1/1	0.93	0.55	94,94,94,94	0
56	MG	14	3229	1/1	0.93	0.20	83,83,83,83	0
56	MG	1G	1607	1/1	0.93	0.28	98,98,98,98	0
56	MG	1H	3032	1/1	0.93	0.25	78,78,78,78	0
56	MG	14	3132	1/1	0.93	0.22	94,94,94,94	0
56	MG	1H	3231	1/1	0.93	0.49	90,90,90,90	0
56	MG	14	3135	1/1	0.93	0.31	101,101,101,101	0
56	MG	13	1700	1/1	0.93	0.24	109,109,109,109	0
56	MG	1H	3160	1/1	0.93	0.31	84,84,84,84	0
56	MG	1G	1614	1/1	0.93	0.25	140,140,140,140	0
56	MG	1H	3082	1/1	0.93	0.17	77,77,77,77	0
56	MG	1H	3359	1/1	0.93	0.10	83,83,83,83	0
56	MG	1H	3035	1/1	0.93	0.20	55,55,55,55	0
56	MG	14	3146	1/1	0.93	0.19	128,128,128,128	0
56	MG	14	3314	1/1	0.94	0.34	102,102,102,102	0
56	MG	14	3082	1/1	0.94	0.23	71,71,71,71	0
56	MG	13	1626	1/1	0.94	0.20	109,109,109,109	0
56	MG	1G	1654	1/1	0.94	0.38	94,94,94,94	0
56	MG	14	3092	1/1	0.94	0.16	109,109,109,109	0
56	MG	1H	3421	1/1	0.94	0.18	62,62,62,62	0
56	MG	1H	3422	1/1	0.94	0.15	91,91,91,91	0
56	MG	1H	3325	1/1	0.94	0.13	86,86,86,86	0
56	MG	14	3323	1/1	0.94	0.10	101,101,101,101	0
56	MG	16	202	1/1	0.94	0.28	73,73,73,73	0
56	MG	14	3225	1/1	0.94	0.20	65,65,65,65	0
56	MG	1H	3424	1/1	0.94	0.09	119,119,119,119	0
56	MG	1H	3425	1/1	0.94	0.06	95,95,95,95	0
56	MG	14	3106	1/1	0.94	0.20	89,89,89,89	0
56	MG	13	1643	1/1	0.94	0.09	78,78,78,78	0
56	MG	1H	3105	1/1	0.94	0.09	76,76,76,76	0
56	MG	14	3234	1/1	0.94	0.54	98,98,98,98	0
56	MG	16	211	1/1	0.94	0.40	79,79,79,79	0
56	MG	1H	3429	1/1	0.94	0.08	102,102,102,102	0
56	MG	14	3345	1/1	0.94	0.10	84,84,84,84	0
56	MG	1H	3058	1/1	0.94	0.20	107,107,107,107	0
56	MG	14	3350	1/1	0.94	0.08	80,80,80,80	0
56	MG	14	3121	1/1	0.94	0.23	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3240	1/1	0.94	0.10	76,76,76,76	0
56	MG	14	3241	1/1	0.94	0.31	92,92,92,92	0
56	MG	1H	3188	1/1	0.94	0.51	100,100,100,100	0
56	MG	13	1728	1/1	0.94	0.13	131,131,131,131	0
56	MG	14	3362	1/1	0.94	0.17	101,101,101,101	0
56	MG	14	3127	1/1	0.94	0.06	87,87,87,87	0
56	MG	1H	3024	1/1	0.94	0.23	102,102,102,102	0
56	MG	1H	3067	1/1	0.94	0.16	84,84,84,84	0
56	MG	1H	3112	1/1	0.94	0.14	55,55,55,55	0
56	MG	1H	3113	1/1	0.94	0.14	64,64,64,64	0
56	MG	1H	3441	1/1	0.94	0.10	122,122,122,122	0
56	MG	1H	3068	1/1	0.94	0.27	98,98,98,98	0
56	MG	2K	102	1/1	0.94	0.23	97,97,97,97	0
56	MG	14	3141	1/1	0.94	0.19	80,80,80,80	0
56	MG	1G	1681	1/1	0.94	0.18	133,133,133,133	0
56	MG	J8	101	1/1	0.94	0.27	78,78,78,78	0
56	MG	13	1731	1/1	0.94	0.05	91,91,91,91	0
56	MG	1H	3454	1/1	0.94	0.06	85,85,85,85	0
56	MG	1H	3455	1/1	0.94	0.22	99,99,99,99	0
56	MG	1H	3456	1/1	0.94	0.18	79,79,79,79	0
56	MG	1H	3121	1/1	0.94	0.21	80,80,80,80	0
56	MG	1H	3159	1/1	0.94	0.17	77,77,77,77	0
56	MG	1H	3460	1/1	0.94	0.11	110,110,110,110	0
56	MG	1H	3257	1/1	0.94	0.33	80,80,80,80	0
56	MG	1H	3301	1/1	0.94	0.24	79,79,79,79	0
56	MG	14	3003	1/1	0.94	0.14	73,73,73,73	0
56	MG	14	3006	1/1	0.94	0.21	99,99,99,99	0
56	MG	14	3399	1/1	0.94	0.08	78,78,78,78	0
56	MG	14	3400	1/1	0.94	0.22	95,95,95,95	0
56	MG	14	3401	1/1	0.94	0.06	120,120,120,120	0
56	MG	14	3157	1/1	0.94	0.31	76,76,76,76	0
56	MG	1H	3203	1/1	0.94	0.35	73,73,73,73	0
56	MG	14	3406	1/1	0.94	0.07	99,99,99,99	0
56	MG	1H	3073	1/1	0.94	0.24	88,88,88,88	0
56	MG	1H	3161	1/1	0.94	0.36	82,82,82,82	0
56	MG	14	3410	1/1	0.94	0.30	96,96,96,96	0
56	MG	1H	3208	1/1	0.94	0.09	63,63,63,63	0
56	MG	13	1620	1/1	0.94	0.27	119,119,119,119	0
56	MG	13	1715	1/1	0.94	0.31	108,108,108,108	0
56	MG	1G	1618	1/1	0.94	0.12	104,104,104,104	0
56	MG	1H	3474	1/1	0.94	0.20	124,124,124,124	0
56	MG	1H	3475	1/1	0.94	0.18	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3080	1/1	0.94	0.31	86,86,86,86	0
56	MG	13	1615	1/1	0.94	0.24	100,100,100,100	0
56	MG	4K	101	1/1	0.94	0.19	90,90,90,90	0
56	MG	14	3421	1/1	0.94	0.05	130,130,130,130	0
56	MG	13	1741	1/1	0.94	0.08	118,118,118,118	0
56	MG	1H	3220	1/1	0.94	0.29	124,124,124,124	0
56	MG	1H	3482	1/1	0.94	0.10	119,119,119,119	0
56	MG	14	3425	1/1	0.94	0.28	92,92,92,92	0
56	MG	1H	3483	1/1	0.94	0.07	110,110,110,110	0
56	MG	1H	3221	1/1	0.94	0.38	99,99,99,99	0
56	MG	14	3041	1/1	0.94	0.16	80,80,80,80	0
56	MG	14	3179	1/1	0.94	0.30	96,96,96,96	0
56	MG	14	3290	1/1	0.94	0.26	113,113,113,113	0
56	MG	14	3042	1/1	0.94	0.21	87,87,87,87	0
56	MG	13	1678	1/1	0.94	0.09	111,111,111,111	0
56	MG	14	3052	1/1	0.94	0.21	110,110,110,110	0
56	MG	1J	210	1/1	0.94	0.06	109,109,109,109	0
56	MG	1H	3386	1/1	0.94	0.16	82,82,82,82	0
56	MG	1H	3390	1/1	0.94	0.17	83,83,83,83	0
56	MG	1H	3315	1/1	0.94	0.39	105,105,105,105	0
56	MG	13	1603	1/1	0.94	0.21	97,97,97,97	0
56	MG	14	3190	1/1	0.94	0.22	124,124,124,124	0
56	MG	14	3059	1/1	0.94	0.27	74,74,74,74	0
56	MG	1H	3398	1/1	0.94	0.09	92,92,92,92	0
56	MG	13	1671	1/1	0.94	0.24	102,102,102,102	0
56	MG	1H	3400	1/1	0.94	0.10	61,61,61,61	0
56	MG	1H	3404	1/1	0.94	0.09	62,62,62,62	0
56	MG	1H	3094	1/1	0.94	0.39	79,79,79,79	0
56	MG	14	3071	1/1	0.94	0.12	94,94,94,94	0
56	MG	13	1698	1/1	0.94	0.35	95,95,95,95	0
56	MG	13	1709	1/1	0.94	0.28	141,141,141,141	0
56	MG	1H	3416	1/1	0.94	0.07	78,78,78,78	0
56	MG	13	1613	1/1	0.94	0.18	96,96,96,96	0
56	MG	1H	3053	1/1	0.94	0.17	92,92,92,92	0
56	MG	13	1602	1/1	0.95	0.31	87,87,87,87	0
56	MG	14	3336	1/1	0.95	0.14	88,88,88,88	0
56	MG	1H	3010	1/1	0.95	0.34	83,83,83,83	0
56	MG	14	3340	1/1	0.95	0.34	91,91,91,91	0
56	MG	1G	1616	1/1	0.95	0.18	149,149,149,149	0
56	MG	1H	3011	1/1	0.95	0.51	91,91,91,91	0
56	MG	1H	3419	1/1	0.95	0.16	94,94,94,94	0
56	MG	14	3001	1/1	0.95	0.12	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3138	1/1	0.95	0.20	73,73,73,73	0
56	MG	14	3139	1/1	0.95	0.19	67,67,67,67	0
56	MG	13	1642	1/1	0.95	0.11	98,98,98,98	0
56	MG	14	3005	1/1	0.95	0.18	66,66,66,66	0
56	MG	1H	3170	1/1	0.95	0.33	100,100,100,100	0
56	MG	14	3007	1/1	0.95	0.23	94,94,94,94	0
56	MG	14	3359	1/1	0.95	0.13	114,114,114,114	0
56	MG	1H	3173	1/1	0.95	0.36	98,98,98,98	0
56	MG	1H	3109	1/1	0.95	0.20	84,84,84,84	0
56	MG	2K	103	1/1	0.95	0.10	98,98,98,98	0
56	MG	14	3364	1/1	0.95	0.07	87,87,87,87	0
56	MG	1H	3176	1/1	0.95	0.30	91,91,91,91	0
56	MG	1G	1630	1/1	0.95	0.47	116,116,116,116	0
56	MG	1G	1631	1/1	0.95	0.23	113,113,113,113	0
56	MG	14	3021	1/1	0.95	0.40	79,79,79,79	0
56	MG	1H	3212	1/1	0.95	0.14	61,61,61,61	0
56	MG	1H	3213	1/1	0.95	0.27	113,113,113,113	0
56	MG	1H	3215	1/1	0.95	0.14	81,81,81,81	0
56	MG	1H	3261	1/1	0.95	0.48	99,99,99,99	0
56	MG	1H	3341	1/1	0.95	0.27	100,100,100,100	0
56	MG	1H	3047	1/1	0.95	0.30	65,65,65,65	0
56	MG	1H	3433	1/1	0.95	0.09	76,76,76,76	0
56	MG	13	1657	1/1	0.95	0.24	104,104,104,104	0
56	MG	1H	3218	1/1	0.95	0.17	78,78,78,78	0
56	MG	13	1726	1/1	0.95	0.12	90,90,90,90	0
56	MG	14	3384	1/1	0.95	0.14	60,60,60,60	0
56	MG	1H	3021	1/1	0.95	0.32	79,79,79,79	0
56	MG	1H	3347	1/1	0.95	0.13	57,57,57,57	0
56	MG	14	3390	1/1	0.95	0.18	94,94,94,94	0
56	MG	1H	3052	1/1	0.95	0.30	80,80,80,80	0
56	MG	14	3393	1/1	0.95	0.14	80,80,80,80	0
56	MG	14	3044	1/1	0.95	0.14	78,78,78,78	0
56	MG	1H	3444	1/1	0.95	0.28	102,102,102,102	0
56	MG	14	3049	1/1	0.95	0.25	87,87,87,87	0
56	MG	13	1673	1/1	0.95	0.28	91,91,91,91	0
56	MG	14	3171	1/1	0.95	0.19	73,73,73,73	0
56	MG	16	208	1/1	0.95	0.55	94,94,94,94	0
56	MG	16	210	1/1	0.95	0.45	107,107,107,107	0
56	MG	1H	3090	1/1	0.95	0.47	91,91,91,91	0
56	MG	16	213	1/1	0.95	0.43	85,85,85,85	0
56	MG	13	1616	1/1	0.95	0.10	82,82,82,82	0
56	MG	14	3060	1/1	0.95	0.27	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	1H	3367	1/1	0.95	0.13	82,82,82,82	0
56	MG	14	3180	1/1	0.95	0.32	83,83,83,83	0
56	MG	1H	3025	1/1	0.95	0.48	78,78,78,78	0
56	MG	1H	3229	1/1	0.95	0.23	83,83,83,83	0
56	MG	1H	3275	1/1	0.95	0.30	97,97,97,97	0
56	MG	1G	1658	1/1	0.95	0.21	110,110,110,110	0
56	MG	14	3069	1/1	0.95	0.08	63,63,63,63	0
56	MG	41	201	1/1	0.95	0.16	89,89,89,89	0
56	MG	1H	3376	1/1	0.95	0.04	96,96,96,96	0
56	MG	14	3074	1/1	0.95	0.13	79,79,79,79	0
56	MG	1H	3095	1/1	0.95	0.43	74,74,74,74	0
56	MG	1G	1662	1/1	0.95	0.16	155,155,155,155	0
56	MG	1H	3463	1/1	0.95	0.04	113,113,113,113	0
56	MG	88	201	1/1	0.95	0.22	95,95,95,95	0
56	MG	14	3298	1/1	0.95	0.42	115,115,115,115	0
56	MG	13	1730	1/1	0.95	0.03	113,113,113,113	0
56	MG	1J	201	1/1	0.95	0.15	123,123,123,123	0
56	MG	G8	201	1/1	0.95	0.11	83,83,83,83	0
56	MG	1H	3384	1/1	0.95	0.07	59,59,59,59	0
56	MG	1H	3385	1/1	0.95	0.14	75,75,75,75	0
56	MG	13	1625	1/1	0.95	0.30	77,77,77,77	0
56	MG	1H	3235	1/1	0.95	0.25	75,75,75,75	0
56	MG	1H	3236	1/1	0.95	0.26	77,77,77,77	0
56	MG	14	3099	1/1	0.95	0.14	106,106,106,106	0
56	MG	14	3100	1/1	0.95	0.12	87,87,87,87	0
56	MG	1G	1672	1/1	0.95	0.26	126,126,126,126	0
56	MG	1H	3099	1/1	0.95	0.33	69,69,69,69	0
56	MG	13	1635	1/1	0.95	0.14	88,88,88,88	0
56	MG	14	3216	1/1	0.95	0.43	111,111,111,111	0
56	MG	1H	3066	1/1	0.95	0.27	71,71,71,71	0
56	MG	1G	1676	1/1	0.95	0.35	121,121,121,121	0
56	MG	14	3219	1/1	0.95	0.20	102,102,102,102	0
56	MG	1H	3196	1/1	0.95	0.70	110,110,110,110	0
56	MG	14	3222	1/1	0.95	0.24	99,99,99,99	0
56	MG	1H	3324	1/1	0.95	0.15	107,107,107,107	0
56	MG	1H	3405	1/1	0.95	0.13	86,86,86,86	0
56	MG	14	3114	1/1	0.95	0.39	97,97,97,97	0
56	MG	13	1653	1/1	0.95	0.21	78,78,78,78	0
56	MG	85	201	1/1	0.95	0.28	93,93,93,93	0
56	MG	1H	3408	1/1	0.95	0.09	87,87,87,87	0
56	MG	1H	3164	1/1	0.95	0.43	102,102,102,102	0
56	MG	1G	1612	1/1	0.95	0.15	110,110,110,110	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3126	1/1	0.95	0.29	103,103,103,103	0
57	ZN	5A	101	1/1	0.95	0.13	172,172,172,172	0
56	MG	3I	201	1/1	0.95	0.18	81,81,81,81	0
56	MG	1G	1646	1/1	0.96	0.15	102,102,102,102	0
56	MG	1H	3117	1/1	0.96	0.29	87,87,87,87	0
56	MG	1H	3462	1/1	0.96	0.11	75,75,75,75	0
56	MG	13	1655	1/1	0.96	0.14	89,89,89,89	0
56	MG	21	302	1/1	0.96	0.16	82,82,82,82	0
56	MG	14	3242	1/1	0.96	0.16	94,94,94,94	0
56	MG	14	3349	1/1	0.96	0.14	71,71,71,71	0
56	MG	1H	3396	1/1	0.96	0.17	87,87,87,87	0
56	MG	14	3245	1/1	0.96	0.18	71,71,71,71	0
56	MG	1H	3038	1/1	0.96	0.26	58,58,58,58	0
56	MG	14	3031	1/1	0.96	0.29	76,76,76,76	0
56	MG	1H	3214	1/1	0.96	0.13	103,103,103,103	0
56	MG	1H	3180	1/1	0.96	0.17	84,84,84,84	0
56	MG	14	3040	1/1	0.96	0.20	79,79,79,79	0
56	MG	1H	3402	1/1	0.96	0.12	81,81,81,81	0
56	MG	1H	3151	1/1	0.96	0.17	110,110,110,110	0
56	MG	1H	3093	1/1	0.96	0.16	81,81,81,81	0
56	MG	14	3045	1/1	0.96	0.17	70,70,70,70	0
56	MG	1H	3064	1/1	0.96	0.27	76,76,76,76	0
56	MG	1H	3065	1/1	0.96	0.27	71,71,71,71	0
56	MG	14	3050	1/1	0.96	0.13	60,60,60,60	0
56	MG	13	1648	1/1	0.96	0.26	76,76,76,76	0
56	MG	1H	3156	1/1	0.96	0.36	110,110,110,110	0
56	MG	14	3054	1/1	0.96	0.12	93,93,93,93	0
56	MG	14	3373	1/1	0.96	0.08	81,81,81,81	0
56	MG	1H	3187	1/1	0.96	0.24	89,89,89,89	0
56	MG	1H	3042	1/1	0.96	0.19	53,53,53,53	0
56	MG	14	3057	1/1	0.96	0.15	91,91,91,91	0
56	MG	14	3378	1/1	0.96	0.16	101,101,101,101	0
56	MG	1H	3046	1/1	0.96	0.30	72,72,72,72	0
56	MG	1H	3069	1/1	0.96	0.37	89,89,89,89	0
56	MG	13	1612	1/1	0.96	0.27	89,89,89,89	0
56	MG	14	3165	1/1	0.96	0.33	70,70,70,70	0
56	MG	1H	3269	1/1	0.96	0.52	90,90,90,90	0
56	MG	1H	3486	1/1	0.96	0.07	98,98,98,98	0
56	MG	1H	3192	1/1	0.96	0.11	78,78,78,78	0
56	MG	14	3389	1/1	0.96	0.17	72,72,72,72	0
56	MG	13	1609	1/1	0.96	0.19	83,83,83,83	0
56	MG	14	3067	1/1	0.96	0.18	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1H	3134	1/1	0.96	0.13	57,57,57,57	0
56	MG	14	3172	1/1	0.96	0.21	107,107,107,107	0
56	MG	13	1751	1/1	0.96	0.16	94,94,94,94	0
56	MG	14	3070	1/1	0.96	0.19	66,66,66,66	0
56	MG	1H	3349	1/1	0.96	0.16	69,69,69,69	0
56	MG	1H	3350	1/1	0.96	0.14	64,64,64,64	0
56	MG	14	3073	1/1	0.96	0.26	74,74,74,74	0
56	MG	1H	3197	1/1	0.96	0.41	89,89,89,89	0
56	MG	14	3402	1/1	0.96	0.11	99,99,99,99	0
56	MG	1G	1678	1/1	0.96	0.13	108,108,108,108	0
56	MG	14	3404	1/1	0.96	0.08	97,97,97,97	0
56	MG	13	1681	1/1	0.96	0.25	107,107,107,107	0
56	MG	1H	3075	1/1	0.96	0.08	59,59,59,59	0
56	MG	1H	3360	1/1	0.96	0.14	58,58,58,58	0
56	MG	1H	3497	1/1	0.96	0.10	119,119,119,119	0
56	MG	1G	1683	1/1	0.96	0.14	129,129,129,129	0
56	MG	14	3084	1/1	0.96	0.22	78,78,78,78	0
56	MG	14	3086	1/1	0.96	0.28	84,84,84,84	0
56	MG	14	3087	1/1	0.96	0.16	82,82,82,82	0
56	MG	14	3088	1/1	0.96	0.23	66,66,66,66	0
56	MG	14	3090	1/1	0.96	0.20	89,89,89,89	0
56	MG	1G	1619	1/1	0.96	0.21	72,72,72,72	0
56	MG	1H	3363	1/1	0.96	0.21	71,71,71,71	0
56	MG	1H	3364	1/1	0.96	0.12	80,80,80,80	0
56	MG	1H	3436	1/1	0.96	0.10	79,79,79,79	0
56	MG	14	3199	1/1	0.96	0.35	126,126,126,126	0
56	MG	1H	3240	1/1	0.96	0.25	94,94,94,94	0
56	MG	13	1623	1/1	0.96	0.15	84,84,84,84	0
56	MG	1H	3139	1/1	0.96	0.40	79,79,79,79	0
56	MG	13	1628	1/1	0.96	0.35	102,102,102,102	0
56	MG	1H	3244	1/1	0.96	0.20	90,90,90,90	0
56	MG	14	3206	1/1	0.96	0.08	83,83,83,83	0
56	MG	1H	3506	1/1	0.96	0.33	57,57,57,57	0
56	MG	1H	3054	1/1	0.96	0.19	71,71,71,71	0
56	MG	14	3004	1/1	0.96	0.25	64,64,64,64	0
56	MG	14	3108	1/1	0.96	0.15	92,92,92,92	0
56	MG	1H	3377	1/1	0.96	0.17	97,97,97,97	0
56	MG	13	1617	1/1	0.96	0.08	106,106,106,106	0
56	MG	14	3214	1/1	0.96	0.14	70,70,70,70	0
56	MG	1H	3450	1/1	0.96	0.13	66,66,66,66	0
56	MG	14	3009	1/1	0.96	0.24	65,65,65,65	0
56	MG	14	3115	1/1	0.96	0.18	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3011	1/1	0.96	0.20	61,61,61,61	0
56	MG	14	3220	1/1	0.96	0.32	94,94,94,94	0
56	MG	1H	3451	1/1	0.96	0.11	87,87,87,87	0
56	MG	1H	3033	1/1	0.96	0.59	100,100,100,100	0
56	MG	1H	3057	1/1	0.96	0.19	72,72,72,72	0
56	MG	16	209	1/1	0.96	0.21	88,88,88,88	0
56	MG	14	3226	1/1	0.96	0.21	123,123,123,123	0
56	MG	1H	3114	1/1	0.96	0.42	82,82,82,82	0
56	MG	14	3228	1/1	0.96	0.20	86,86,86,86	0
56	MG	14	3129	1/1	0.96	0.20	78,78,78,78	0
56	MG	2K	101	1/1	0.96	0.22	76,76,76,76	0
56	MG	14	3131	1/1	0.96	0.20	56,56,56,56	0
56	MG	16	212	1/1	0.96	0.43	99,99,99,99	0
56	MG	14	3334	1/1	0.96	0.11	91,91,91,91	0
56	MG	1H	3387	1/1	0.96	0.17	70,70,70,70	0
56	MG	1H	3289	1/1	0.96	0.22	93,93,93,93	0
56	MG	14	3338	1/1	0.96	0.09	68,68,68,68	0
56	MG	14	3353	1/1	0.97	0.15	91,91,91,91	0
56	MG	1H	3115	1/1	0.97	0.34	95,95,95,95	0
56	MG	14	3085	1/1	0.97	0.18	81,81,81,81	0
56	MG	1H	3401	1/1	0.97	0.16	87,87,87,87	0
56	MG	1H	3239	1/1	0.97	0.17	88,88,88,88	0
56	MG	1H	3403	1/1	0.97	0.16	73,73,73,73	0
56	MG	14	3361	1/1	0.97	0.17	86,86,86,86	0
56	MG	14	3089	1/1	0.97	0.21	85,85,85,85	0
56	MG	1H	3008	1/1	0.97	0.41	79,79,79,79	0
56	MG	13	1746	1/1	0.97	0.07	110,110,110,110	0
56	MG	1H	3468	1/1	0.97	0.07	95,95,95,95	0
56	MG	13	1747	1/1	0.97	0.28	103,103,103,103	0
56	MG	14	3015	1/1	0.97	0.08	81,81,81,81	0
56	MG	14	3095	1/1	0.97	0.20	78,78,78,78	0
56	MG	14	3097	1/1	0.97	0.12	69,69,69,69	0
56	MG	13	1608	1/1	0.97	0.20	91,91,91,91	0
56	MG	1H	3120	1/1	0.97	0.13	80,80,80,80	0
56	MG	1H	3413	1/1	0.97	0.15	77,77,77,77	0
56	MG	1H	3348	1/1	0.97	0.14	84,84,84,84	0
56	MG	1H	3096	1/1	0.97	0.17	57,57,57,57	0
56	MG	13	1610	1/1	0.97	0.20	79,79,79,79	0
56	MG	14	3105	1/1	0.97	0.14	74,74,74,74	0
56	MG	1G	1651	1/1	0.97	0.20	138,138,138,138	0
56	MG	13	1659	1/1	0.97	0.31	109,109,109,109	0
56	MG	14	3191	1/1	0.97	0.21	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	14	3382	1/1	0.97	0.29	86,86,86,86	0
56	MG	1H	3356	1/1	0.97	0.10	58,58,58,58	0
56	MG	13	1649	1/1	0.97	0.27	85,85,85,85	0
56	MG	14	3194	1/1	0.97	0.23	97,97,97,97	0
56	MG	14	3111	1/1	0.97	0.17	72,72,72,72	0
56	MG	1H	3018	1/1	0.97	0.41	79,79,79,79	0
56	MG	1H	3481	1/1	0.97	0.11	70,70,70,70	0
56	MG	14	3198	1/1	0.97	0.11	88,88,88,88	0
56	MG	1H	3019	1/1	0.97	0.28	54,54,54,54	0
56	MG	1H	3078	1/1	0.97	0.23	70,70,70,70	0
56	MG	14	3116	1/1	0.97	0.21	73,73,73,73	0
56	MG	1H	3131	1/1	0.97	0.17	56,56,56,56	0
56	MG	14	3397	1/1	0.97	0.13	101,101,101,101	0
56	MG	14	3036	1/1	0.97	0.15	67,67,67,67	0
56	MG	1H	3253	1/1	0.97	0.20	91,91,91,91	0
56	MG	14	3205	1/1	0.97	0.45	72,72,72,72	0
56	MG	14	3124	1/1	0.97	0.26	85,85,85,85	0
56	MG	1H	3103	1/1	0.97	0.15	60,60,60,60	0
56	MG	1H	3369	1/1	0.97	0.15	92,92,92,92	0
56	MG	1H	3371	1/1	0.97	0.08	91,91,91,91	0
56	MG	14	3128	1/1	0.97	0.21	97,97,97,97	0
56	MG	13	1725	1/1	0.97	0.11	102,102,102,102	0
56	MG	1H	3037	1/1	0.97	0.37	76,76,76,76	0
56	MG	14	3300	1/1	0.97	0.15	98,98,98,98	0
56	MG	13	1614	1/1	0.97	0.16	98,98,98,98	0
56	MG	14	3046	1/1	0.97	0.24	88,88,88,88	0
56	MG	1H	3039	1/1	0.97	0.39	55,55,55,55	0
56	MG	14	3134	1/1	0.97	0.10	103,103,103,103	0
56	MG	13	1638	1/1	0.97	0.09	115,115,115,115	0
56	MG	13	1712	1/1	0.97	0.19	99,99,99,99	0
56	MG	1H	3226	1/1	0.97	0.26	88,88,88,88	0
56	MG	1H	3383	1/1	0.97	0.10	67,67,67,67	0
56	MG	14	3223	1/1	0.97	0.82	81,81,81,81	0
56	MG	14	3310	1/1	0.97	0.20	96,96,96,96	0
56	MG	1H	3227	1/1	0.97	0.26	123,123,123,123	0
56	MG	1H	3110	1/1	0.97	0.31	67,67,67,67	0
56	MG	1H	3299	1/1	0.97	0.17	71,71,71,71	0
56	MG	1H	3195	1/1	0.97	0.11	94,94,94,94	0
56	MG	1H	3445	1/1	0.97	0.12	83,83,83,83	0
56	MG	14	3426	1/1	0.97	0.24	67,67,67,67	0
56	MG	1G	1677	1/1	0.97	0.08	91,91,91,91	0
56	MG	14	3230	1/1	0.97	0.27	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3145	1/1	0.97	0.25	105,105,105,105	0
56	MG	1H	3388	1/1	0.97	0.14	65,65,65,65	0
56	MG	14	3062	1/1	0.97	0.29	85,85,85,85	0
56	MG	1G	1621	1/1	0.97	0.11	88,88,88,88	0
56	MG	14	3322	1/1	0.97	0.14	90,90,90,90	0
56	MG	1H	3088	1/1	0.97	0.33	52,52,52,52	0
56	MG	1H	3449	1/1	0.97	0.15	78,78,78,78	0
56	MG	1G	1624	1/1	0.97	0.17	93,93,93,93	0
56	MG	14	3238	1/1	0.97	0.16	110,110,110,110	0
56	MG	1H	3089	1/1	0.97	0.28	58,58,58,58	0
56	MG	1G	1626	1/1	0.97	0.27	102,102,102,102	0
56	MG	1G	1627	1/1	0.97	0.23	116,116,116,116	0
56	MG	14	3155	1/1	0.97	0.17	76,76,76,76	0
56	MG	1H	3392	1/1	0.97	0.13	65,65,65,65	0
56	MG	14	3244	1/1	0.97	0.23	99,99,99,99	0
56	MG	1H	3394	1/1	0.97	0.09	62,62,62,62	0
56	MG	16	203	1/1	0.97	0.17	107,107,107,107	0
56	MG	13	1729	1/1	0.97	0.12	109,109,109,109	0
56	MG	1H	3091	1/1	0.97	0.36	70,70,70,70	0
56	MG	2L	101	1/1	0.97	0.18	98,98,98,98	0
56	MG	1H	3397	1/1	0.97	0.15	77,77,77,77	0
56	MG	1H	3171	1/1	0.97	0.51	75,75,75,75	0
56	MG	14	3347	1/1	0.97	0.07	85,85,85,85	0
56	MG	14	3348	1/1	0.97	0.10	71,71,71,71	0
57	ZN	5I	101	1/1	0.97	0.20	114,114,114,114	0
56	MG	1H	3459	1/1	0.97	0.14	81,81,81,81	0
56	MG	14	3002	1/1	0.97	0.24	70,70,70,70	0
56	MG	1H	3172	1/1	0.97	0.26	98,98,98,98	0
56	MG	14	3212	1/1	0.98	0.16	104,104,104,104	0
56	MG	1H	3414	1/1	0.98	0.15	65,65,65,65	0
56	MG	1H	3361	1/1	0.98	0.16	56,56,56,56	0
56	MG	1H	3043	1/1	0.98	0.27	72,72,72,72	0
56	MG	14	3377	1/1	0.98	0.08	82,82,82,82	0
56	MG	1H	3045	1/1	0.98	0.20	63,63,63,63	0
56	MG	21	301	1/1	0.98	0.23	75,75,75,75	0
56	MG	1H	3365	1/1	0.98	0.13	69,69,69,69	0
56	MG	1H	3259	1/1	0.98	0.52	105,105,105,105	0
56	MG	13	1735	1/1	0.98	0.07	96,96,96,96	0
56	MG	1H	3145	1/1	0.98	0.20	57,57,57,57	0
56	MG	13	1737	1/1	0.98	0.14	72,72,72,72	0
56	MG	14	3386	1/1	0.98	0.25	105,105,105,105	0
56	MG	14	3075	1/1	0.98	0.23	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	1H	3048	1/1	0.98	0.21	65,65,65,65	0
56	MG	14	3008	1/1	0.98	0.25	78,78,78,78	0
56	MG	1H	3373	1/1	0.98	0.12	63,63,63,63	0
56	MG	14	3010	1/1	0.98	0.19	65,65,65,65	0
56	MG	1H	3070	1/1	0.98	0.54	125,125,125,125	0
56	MG	1H	3233	1/1	0.98	0.19	65,65,65,65	0
56	MG	1H	3427	1/1	0.98	0.09	75,75,75,75	0
56	MG	1H	3234	1/1	0.98	0.29	91,91,91,91	0
56	MG	1H	3484	1/1	0.98	0.09	79,79,79,79	0
56	MG	13	1738	1/1	0.98	0.13	77,77,77,77	0
56	MG	13	1634	1/1	0.98	0.30	85,85,85,85	0
56	MG	1G	1601	1/1	0.98	0.19	109,109,109,109	0
56	MG	1H	3379	1/1	0.98	0.12	74,74,74,74	0
56	MG	13	1604	1/1	0.98	0.27	108,108,108,108	0
56	MG	1H	3207	1/1	0.98	0.18	60,60,60,60	0
56	MG	1H	3271	1/1	0.98	0.46	93,93,93,93	0
56	MG	1H	3125	1/1	0.98	0.16	68,68,68,68	0
56	MG	1H	3014	1/1	0.98	0.42	57,57,57,57	0
56	MG	1G	1608	1/1	0.98	0.14	98,98,98,98	0
56	MG	14	3408	1/1	0.98	0.08	79,79,79,79	0
56	MG	13	1601	1/1	0.98	0.27	74,74,74,74	0
56	MG	1H	3016	1/1	0.98	0.31	66,66,66,66	0
56	MG	1H	3389	1/1	0.98	0.16	69,69,69,69	0
56	MG	14	3101	1/1	0.98	0.15	80,80,80,80	0
56	MG	1H	3001	1/1	0.98	0.29	64,64,64,64	0
56	MG	14	3414	1/1	0.98	0.06	93,93,93,93	0
56	MG	14	3032	1/1	0.98	0.20	52,52,52,52	0
56	MG	14	3033	1/1	0.98	0.18	66,66,66,66	0
56	MG	14	3034	1/1	0.98	0.23	69,69,69,69	0
56	MG	14	3327	1/1	0.98	0.43	117,117,117,117	0
56	MG	1H	3130	1/1	0.98	0.24	78,78,78,78	0
56	MG	13	1742	1/1	0.98	0.10	82,82,82,82	0
56	MG	1H	3446	1/1	0.98	0.12	74,74,74,74	0
56	MG	14	3333	1/1	0.98	0.12	73,73,73,73	0
56	MG	1H	3393	1/1	0.98	0.17	60,60,60,60	0
56	MG	14	3110	1/1	0.98	0.23	61,61,61,61	0
56	MG	13	1705	1/1	0.98	0.14	98,98,98,98	0
56	MG	13	1732	1/1	0.98	0.09	81,81,81,81	0
56	MG	14	3043	1/1	0.98	0.21	101,101,101,101	0
56	MG	1H	3059	1/1	0.98	0.49	92,92,92,92	0
56	MG	1H	3084	1/1	0.98	0.31	61,61,61,61	0
56	MG	1H	3453	1/1	0.98	0.15	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3188	1/1	0.98	0.31	91,91,91,91	0
56	MG	14	3189	1/1	0.98	0.12	83,83,83,83	0
56	MG	1H	3085	1/1	0.98	0.22	62,62,62,62	0
56	MG	14	3118	1/1	0.98	0.24	71,71,71,71	0
56	MG	14	3119	1/1	0.98	0.32	66,66,66,66	0
56	MG	14	3120	1/1	0.98	0.17	80,80,80,80	0
56	MG	14	3351	1/1	0.98	0.12	60,60,60,60	0
56	MG	14	3048	1/1	0.98	0.20	73,73,73,73	0
56	MG	14	3122	1/1	0.98	0.19	68,68,68,68	0
56	MG	1H	3060	1/1	0.98	0.24	74,74,74,74	0
56	MG	1H	3351	1/1	0.98	0.18	65,65,65,65	0
56	MG	14	3051	1/1	0.98	0.20	100,100,100,100	0
56	MG	14	3358	1/1	0.98	0.09	85,85,85,85	0
56	MG	1H	3352	1/1	0.98	0.14	61,61,61,61	0
56	MG	1H	3353	1/1	0.98	0.11	77,77,77,77	0
56	MG	1H	3006	1/1	0.98	0.17	91,91,91,91	0
56	MG	1H	3355	1/1	0.98	0.18	64,64,64,64	0
56	MG	13	1733	1/1	0.98	0.10	102,102,102,102	0
56	MG	1H	3406	1/1	0.98	0.17	77,77,77,77	0
56	MG	1G	1685	1/1	0.98	0.08	112,112,112,112	0
56	MG	1H	3357	1/1	0.98	0.07	57,57,57,57	0
56	MG	1H	3063	1/1	0.98	0.28	83,83,83,83	0
57	ZN	3E	301	1/1	0.98	0.41	115,115,115,115	0
56	MG	14	3061	1/1	0.98	0.15	79,79,79,79	0
56	MG	1H	3465	1/1	0.98	0.10	83,83,83,83	0
56	MG	1H	3224	1/1	0.98	0.28	82,82,82,82	0
56	MG	13	1633	1/1	0.98	0.15	75,75,75,75	0
56	MG	1H	3017	1/1	0.99	0.23	79,79,79,79	0
56	MG	1H	3370	1/1	0.99	0.16	84,84,84,84	0
56	MG	1H	3452	1/1	0.99	0.14	65,65,65,65	0
56	MG	14	3331	1/1	0.99	0.29	112,112,112,112	0
56	MG	14	3332	1/1	0.99	0.12	72,72,72,72	0
56	MG	1H	3044	1/1	0.99	0.20	68,68,68,68	0
56	MG	1H	3036	1/1	0.99	0.46	61,61,61,61	0
56	MG	14	3335	1/1	0.99	0.12	73,73,73,73	0
56	MG	1H	3409	1/1	0.99	0.18	76,76,76,76	0
56	MG	14	3096	1/1	0.99	0.15	77,77,77,77	0
56	MG	13	1611	1/1	0.99	0.18	95,95,95,95	0
56	MG	14	3339	1/1	0.99	0.12	74,74,74,74	0
56	MG	14	3035	1/1	0.99	0.27	79,79,79,79	0
56	MG	1H	3411	1/1	0.99	0.12	80,80,80,80	0
56	MG	14	3342	1/1	0.99	0.12	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	14	3385	1/1	0.99	0.12	73,73,73,73	0
56	MG	1H	3412	1/1	0.99	0.12	64,64,64,64	0
56	MG	14	3038	1/1	0.99	0.16	72,72,72,72	0
56	MG	13	1723	1/1	0.99	0.14	105,105,105,105	0
56	MG	1H	3435	1/1	0.99	0.16	72,72,72,72	0
56	MG	13	1736	1/1	0.99	0.17	102,102,102,102	0
56	MG	1H	3076	1/1	0.99	0.26	73,73,73,73	0
56	MG	14	3392	1/1	0.99	0.08	70,70,70,70	0
56	MG	1H	3205	1/1	0.99	0.23	64,64,64,64	0
56	MG	14	3014	1/1	0.99	0.27	73,73,73,73	0
56	MG	1H	3362	1/1	0.99	0.14	61,61,61,61	0
56	MG	14	3016	1/1	0.99	0.24	71,71,71,71	0
56	MG	14	3077	1/1	0.99	0.28	80,80,80,80	0
56	MG	1H	3440	1/1	0.99	0.10	83,83,83,83	0
56	MG	14	3079	1/1	0.99	0.23	84,84,84,84	0
56	MG	1H	3040	1/1	0.99	0.21	78,78,78,78	0
56	MG	14	3357	1/1	0.99	0.13	80,80,80,80	0
56	MG	1H	3380	1/1	0.99	0.16	61,61,61,61	0
56	MG	1H	3443	1/1	0.99	0.17	76,76,76,76	0
56	MG	14	3215	1/1	0.99	0.15	104,104,104,104	0
56	MG	1H	3004	1/1	0.99	0.30	68,68,68,68	0
56	MG	1H	3382	1/1	0.99	0.10	58,58,58,58	0
56	MG	1H	3123	1/1	0.99	0.24	68,68,68,68	0
56	MG	1H	3472	1/1	0.99	0.08	98,98,98,98	0
56	MG	1H	3079	1/1	0.99	0.33	83,83,83,83	0
56	MG	14	3366	1/1	0.99	0.15	88,88,88,88	0
56	MG	1H	3022	1/1	0.99	0.38	64,64,64,64	0
57	ZN	32	302	1/1	0.99	0.39	131,131,131,131	0
56	MG	1H	3368	1/1	0.99	0.17	79,79,79,79	0
56	MG	14	3257	1/1	0.99	0.20	84,84,84,84	0

6.5 Other polymers (i)

There are no such residues in this entry.