



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 2, 2024 – 06:35 pm GMT

PDB ID : 5E7K
Title : Structure of T. thermophilus 70S ribosome complex with mRNA and cognate tRNA^{Lys} in the A-site
Authors : Rozov, A.; Demeshkina, N.; Khusainov, I.; Yusupov, M.; Yusupova, G.
Deposited on : 2015-10-12
Resolution : 3.20 Å (reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

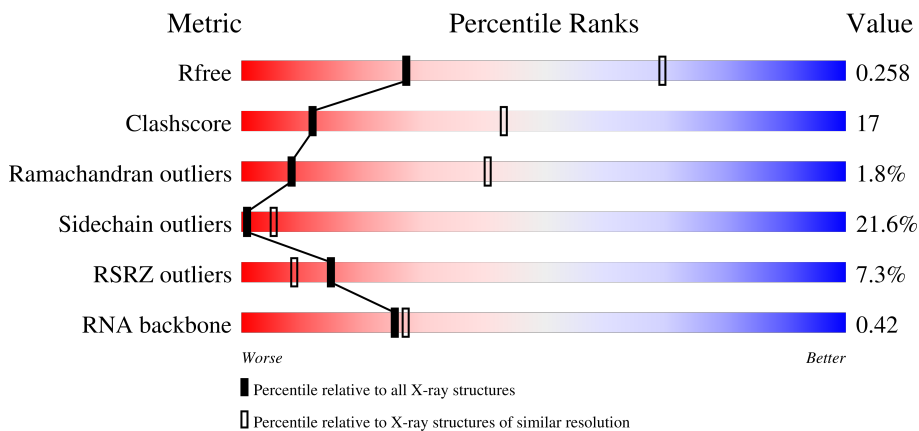
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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	1133 (3.20-3.20)
Clashscore	141614	1253 (3.20-3.20)
Ramachandran outliers	138981	1234 (3.20-3.20)
Sidechain outliers	138945	1233 (3.20-3.20)
RSRZ outliers	127900	1095 (3.20-3.20)
RNA backbone	3102	1010 (3.50-2.90)

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

Mol	Chain	Length	Quality of chain
1	13	1522	 34% 44% 17% ..
1	1G	1522	 36% 43% 18% ..
2	12	256	 9% 38% 35% 8% . 18%
2	1E	256	 11% 34% 41% 15% 10%



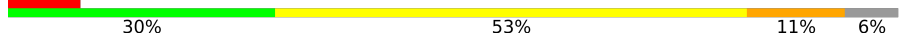


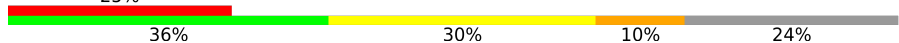
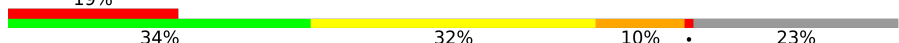
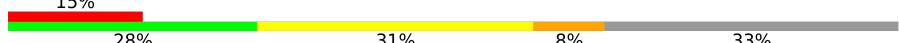
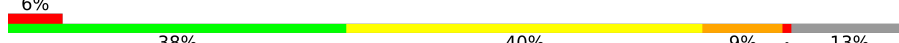

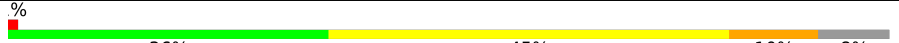
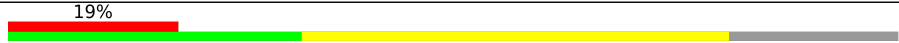

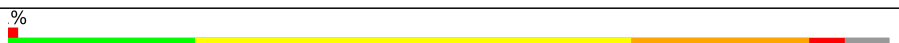
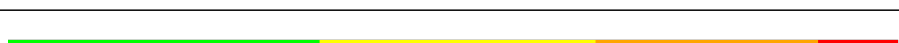
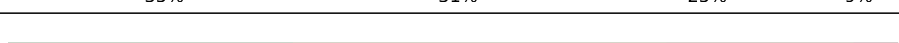
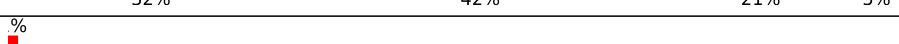
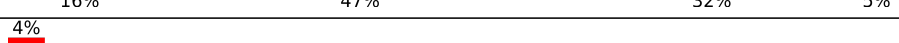

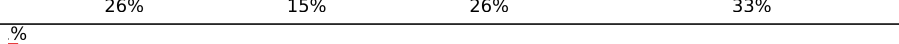
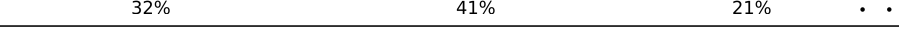
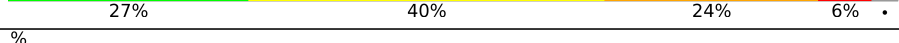

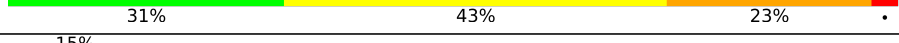

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Mol	Chain	Length	Quality of chain
3	22	239	
3	2E	239	
4	32	209	
4	3E	209	
5	42	162	
5	4E	162	
6	52	101	
6	5E	101	
7	62	156	
7	6E	156	
8	72	138	
8	7E	138	
9	82	128	
9	8E	128	
10	1A	105	
10	1I	105	
11	2A	129	
11	2I	129	
12	3A	132	
12	3I	132	
13	4A	126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

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Mol	Chain	Length	Quality of chain
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	75	
23	2K	77	
23	2L	77	
24	3K	76	
25	4K	27	
25	4L	27	
26	14	2917	
26	1H	2917	
27	16	122	
27	1J	122	
28	71	229	
28	79	229	

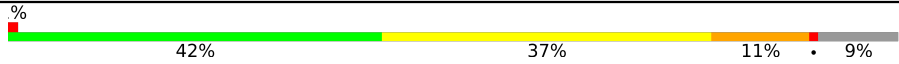

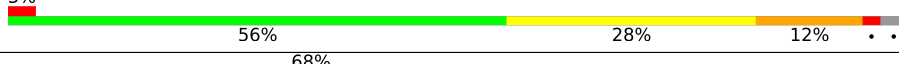


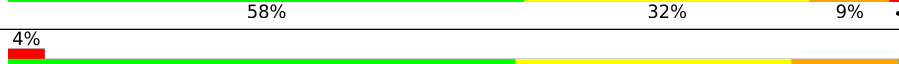


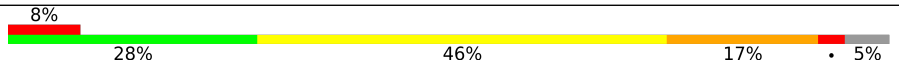

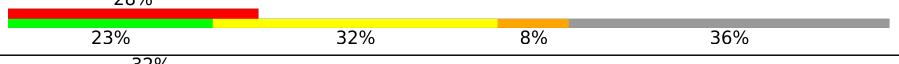
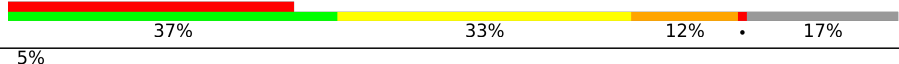


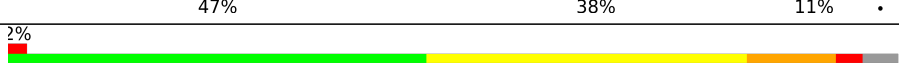
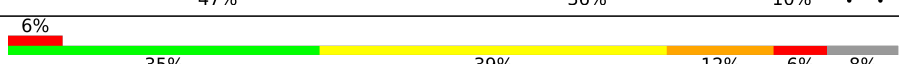
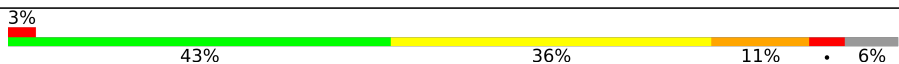

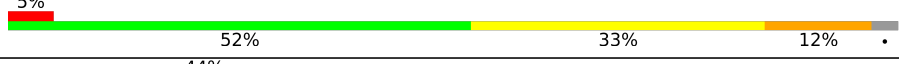


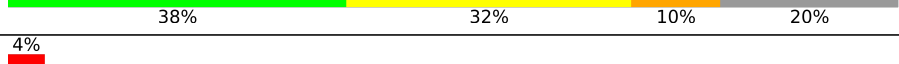



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Mol	Chain	Length	Quality of chain
29	11	276	50% 33% 11% 4% ..
29	19	276	49% 39% 11% 4% ..
30	21	206	47% 38% 11% 17% ..
30	29	206	44% 38% 16% 18% ..
31	31	210	47% 40% 9% 10% ..
31	39	210	42% 43% 11% 16% ..
32	41	182	38% 47% 13% 21% ..
32	49	182	48% 41% 10% 23% ..
33	51	180	44% 36% 12% 5% 5%
33	59	180	13% 22% 6% 4% 59%
34	61	148	45% 41% 10% 24% ..
34	69	148	45% 41% 10% 29% ..
35	15	140	57% 30% 11% 40% ..
35	58	140	50% 39% 9% 4% ..
36	25	122	56% 38% 7%
36	68	122	54% 38% 8% 2%
37	35	150	39% 43% 15% 5% ..
37	78	150	37% 39% 19% 2% ..
38	45	141	43% 40% 13% 49% ..
38	88	141	52% 36% 9% 22%
39	55	118	44% 50% 5%
39	98	118	42% 46% 11% 8%
40	65	112	35% 46% 16% 4% ..
40	A8	112	41% 46% 12% 58% ..
41	75	146	49% 33% 10% 2% 9%


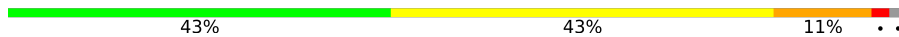

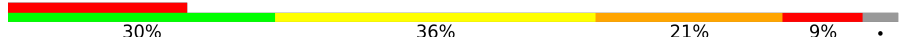
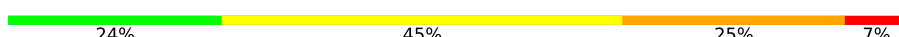
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Mol	Chain	Length	Quality of chain
41	B8	146	
42	85	118	
42	C8	118	
43	95	101	
43	D8	101	
44	A5	113	
44	E8	113	
45	B5	96	
45	F8	96	
46	C5	110	
46	G8	110	
47	D5	206	
47	H8	206	
48	E5	85	
48	I8	85	
49	F5	98	
49	J8	98	
50	G5	72	
50	K8	72	
51	H5	60	
51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

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Mol	Chain	Length	Quality of chain
54	P8	49	
55	M5	65	
55	Q8	65	
56	1L	76	
57	3L	76	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	MG	13	1603	-	-	-	X
58	MG	13	1630	-	-	-	X
58	MG	13	1641	-	-	-	X
58	MG	13	1644	-	-	-	X
58	MG	13	1653	-	-	-	X
58	MG	13	1659	-	-	-	X
58	MG	13	1672	-	-	-	X
58	MG	13	1689	-	-	-	X
58	MG	13	1694	-	-	-	X
58	MG	13	1695	-	-	-	X
58	MG	13	1704	-	-	-	X
58	MG	14	3017	-	-	-	X
58	MG	14	3018	-	-	-	X
58	MG	14	3019	-	-	-	X
58	MG	14	3029	-	-	-	X
58	MG	14	3034	-	-	-	X
58	MG	14	3037	-	-	-	X
58	MG	14	3052	-	-	-	X
58	MG	14	3068	-	-	-	X
58	MG	14	3073	-	-	-	X
58	MG	14	3080	-	-	-	X
58	MG	14	3085	-	-	-	X
58	MG	14	3089	-	-	-	X
58	MG	14	3108	-	-	-	X
58	MG	14	3117	-	-	-	X
58	MG	14	3129	-	-	-	X
58	MG	14	3144	-	-	-	X
58	MG	14	3150	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	MG	14	3153	-	-	-	X
58	MG	14	3155	-	-	-	X
58	MG	14	3181	-	-	-	X
58	MG	14	3182	-	-	-	X
58	MG	14	3183	-	-	-	X
58	MG	14	3185	-	-	-	X
58	MG	14	3186	-	-	-	X
58	MG	14	3187	-	-	-	X
58	MG	14	3188	-	-	-	X
58	MG	14	3190	-	-	-	X
58	MG	14	3191	-	-	-	X
58	MG	14	3227	-	-	-	X
58	MG	14	3229	-	-	-	X
58	MG	14	3234	-	-	-	X
58	MG	14	3243	-	-	-	X
58	MG	14	3250	-	-	-	X
58	MG	14	3251	-	-	-	X
58	MG	14	3257	-	-	-	X
58	MG	14	3259	-	-	-	X
58	MG	14	3260	-	-	-	X
58	MG	14	3261	-	-	-	X
58	MG	14	3264	-	-	-	X
58	MG	14	3265	-	-	-	X
58	MG	14	3268	-	-	-	X
58	MG	14	3269	-	-	-	X
58	MG	14	3280	-	-	-	X
58	MG	14	3282	-	-	-	X
58	MG	14	3288	-	-	-	X
58	MG	14	3293	-	-	-	X
58	MG	14	3297	-	-	-	X
58	MG	14	3302	-	-	-	X
58	MG	14	3304	-	-	-	X
58	MG	14	3308	-	-	-	X
58	MG	14	3313	-	-	-	X
58	MG	1G	1603	-	-	-	X
58	MG	1G	1604	-	-	-	X
58	MG	1G	1649	-	-	-	X
58	MG	1G	1666	-	-	-	X
58	MG	1G	1672	-	-	-	X
58	MG	1H	3016	-	-	-	X
58	MG	1H	3024	-	-	-	X
58	MG	1H	3031	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	MG	1H	3032	-	-	-	X
58	MG	1H	3033	-	-	-	X
58	MG	1H	3035	-	-	-	X
58	MG	1H	3036	-	-	-	X
58	MG	1H	3043	-	-	-	X
58	MG	1H	3087	-	-	-	X
58	MG	1H	3122	-	-	-	X
58	MG	1H	3142	-	-	-	X
58	MG	1H	3154	-	-	-	X
58	MG	1H	3167	-	-	-	X
58	MG	1H	3171	-	-	-	X
58	MG	1H	3175	-	-	-	X
58	MG	1H	3180	-	-	-	X
58	MG	1H	3197	-	-	-	X
58	MG	1H	3201	-	-	-	X
58	MG	1H	3207	-	-	-	X
58	MG	1H	3224	-	-	-	X
58	MG	1H	3228	-	-	-	X
58	MG	1H	3254	-	-	-	X
58	MG	1H	3268	-	-	-	X
58	MG	1H	3278	-	-	-	X
58	MG	1H	3279	-	-	-	X
58	MG	1H	3282	-	-	-	X
58	MG	1H	3284	-	-	-	X
58	MG	1H	3285	-	-	-	X
58	MG	1H	3288	-	-	-	X
58	MG	1H	3301	-	-	-	X
58	MG	1H	3309	-	-	-	X
58	MG	1H	3315	-	-	-	X
58	MG	1H	3324	-	-	-	X
58	MG	1H	3327	-	-	-	X
58	MG	1H	3328	-	-	-	X
58	MG	1H	3331	-	-	-	X
58	MG	1H	3342	-	-	-	X
58	MG	29	302	-	-	-	X
58	MG	2K	102	-	-	-	X
58	MG	2K	103	-	-	-	X
58	MG	2L	102	-	-	-	X
58	MG	E5	101	-	-	-	X
59	SF4	32	301	-	-	X	-

2 Entry composition [i](#)

There are 61 unique types of molecules in this entry. The entry contains 294444 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 rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	13	1496	Total 32157	C 14313	N 5960	O 10388	P 1496	0	0	0
1	1G	1507	Total 32391	C 14418	N 6004	O 10463	P 1506	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
13	1542	G	-	expression tag	GB 55771382
13	1543	C	-	expression tag	GB 55771382
13	1544	U	-	expression tag	GB 55771382
1G	1542	G	-	expression tag	GB 55771382
1G	1543	C	-	expression tag	GB 55771382
1G	1544	U	-	expression tag	GB 55771382

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	1E	231	Total 1874	C 1199	N 334	O 336	S 5	0	0	0
2	12	210	Total 1721	C 1100	N 309	O 308	S 4	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	2E	205	Total 1605	C 1011	N 313	O 280	S 1	0	0	0
3	22	196	Total 1541	C 975	N 298	O 267	S 1	0	0	0

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	4E	149	Total	C	N	O	S	0	0	0
			1142	722	216	200	4			
5	42	148	Total	C	N	O	S	0	0	0
			1134	718	215	197	4			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	8E	126	Total	C	N	O	0	0	0
			1000	634	196	170			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	82	121	Total	C	N	O	0	0	0
			953	605	186	162			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	91	Total	C	N	O	S	0	0	0
			734	459	144	130	1			
10	1A	80	Total	C	N	O	0	0	0	
			646	403	129	114				

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

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

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

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

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

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

- 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	59	Total	C	N	O	S	0	0	0
			486	309	103	70	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	6I	87	Total	C	N	O	S	0	0	0
			729	457	146	124	2			
15	6A	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	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			
16	7A	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AI	81	Total	C	N	O	S	0	0	0
			654	417	122	113	2			
19	AA	62	Total	C	N	O	S	0	0	0
			481	306	85	88	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	BI	97	Total	C	N	O	S	0	0	0
			746	461	157	126	2			
20	BA	99	Total	C	N	O	S	0	0	0
			762	470	162	128	2			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
22	1K	71	Total	C	N	O	P	S	0	0	0
			1520	681	264	503	71	1			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1K	?	-	G	deletion	GB 836716955

- 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	297	536	77	1			
23	2L	77	Total	C	N	O	P	S	0	0	0
			1646	735	297	536	77	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	3K	76	Total	C	N	O	P	0	0	0
			1611	721	281	534	75			

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	4K	19	Total	C	N	O	P	0	0	0
			419	188	89	123	19			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
25	4L	18	397	178	84	117	18	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
26	1H	2833	61028	27159	11418	19618	2833	0	0	0
26	14	2861	61630	27429	11535	19806	2860	0	0	0

There are 14 discrepancies between the modelled and reference sequences:

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
28	71	133	1033	651	194	187	1	0	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
28	79	57	Total	C	N	O	0	0	0
			456	283	91	82			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	11	273	Total	C	N	O	S	0	0	0
			2120	1338	421	358	3			
29	19	274	Total	C	N	O	S	0	0	0
			2125	1341	422	359	3			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	41	179	Total	C	N	O	S	0	0	0
			1457	931	265	257	4			
32	49	179	Total	C	N	O	S	0	0	0
			1458	931	266	257	4			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
33	51	171	Total	C	N	O	S	0	0	0
			1312	832	246	233	1			
33	59	73	Total	C	N	O		0	0	0
			568	356	116	96				

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	58	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			
35	15	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	88	141	Total	C	N	O	S	0	0	0
			1113	709	210	187	7			
38	45	138	Total	C	N	O	S	0	0	0
			1099	702	208	183	6			

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	E8	112	Total	C	N	O	S	0	0	0
			890	560	175	153	2			

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	F8	95	Total	C	N	O	S	0	0	0
			743	482	134	126	1			
45	B5	94	Total	C	N	O	S	0	0	0
			735	477	133	125				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	G8	105	Total	C	N	O	S	0	0	0
			796	513	150	128	5			
46	C5	104	Total	C	N	O	S	0	0	0
			794	510	152	127	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	H8	171	Total	C	N	O	S	0	0	0
			1373	876	247	247	3			
47	D5	132	Total	C	N	O	S	0	0	0
			1074	691	193	188	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	I8	76	Total	C	N	O	S	0	0	0
			606	376	128	101	1			
48	E5	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	K8	68	Total	C	N	O	S	0	0	0
			568	352	115	100	1			
50	G5	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M8	47	Total	C	N	O	S	0	0	0
			366	234	61	66	5			

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	N	O	P				S
56	1L	73	1563	700	271	518	73	1	0	0	0

- Molecule 57 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
57	3L	76	1612	722	281	534	75	0	0	0

- Molecule 58 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

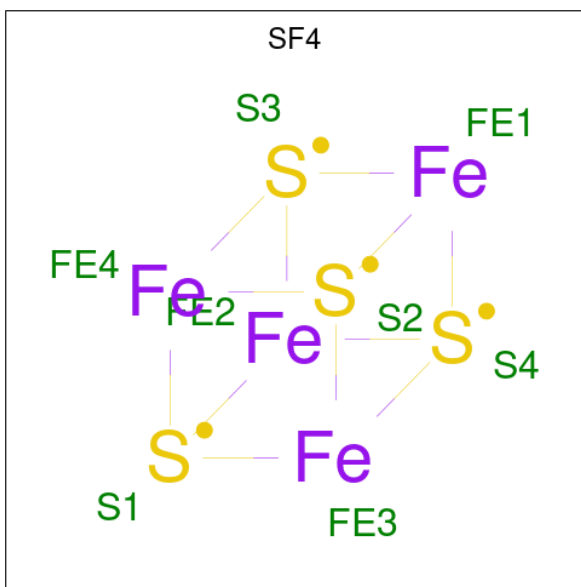
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	13	132	Total Mg 132 132	0	0
58	1E	1	Total Mg 1 1	0	0
58	5E	1	Total Mg 1 1	0	0
58	1K	1	Total Mg 1 1	0	0
58	2K	3	Total Mg 3 3	0	0
58	3K	1	Total Mg 1 1	0	0
58	1H	467	Total Mg 467 467	0	0
58	16	9	Total Mg 9 9	0	0
58	21	2	Total Mg 2 2	0	0
58	41	1	Total Mg 1 1	0	0
58	78	1	Total Mg 1 1	0	0
58	88	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	98	1	Total Mg 1 1	0	0
58	I8	3	Total Mg 3 3	0	0
58	J8	1	Total Mg 1 1	0	0
58	L8	1	Total Mg 1 1	0	0
58	P8	1	Total Mg 1 1	0	0
58	Q8	1	Total Mg 1 1	0	0
58	1G	90	Total Mg 90 90	0	0
58	6A	1	Total Mg 1 1	0	0
58	2L	2	Total Mg 2 2	0	0
58	14	399	Total Mg 399 399	0	0
58	1J	5	Total Mg 5 5	0	0
58	29	4	Total Mg 4 4	0	0
58	39	1	Total Mg 1 1	0	0
58	25	1	Total Mg 1 1	0	0
58	35	3	Total Mg 3 3	0	0
58	45	2	Total Mg 2 2	0	0
58	55	1	Total Mg 1 1	0	0
58	E5	1	Total Mg 1 1	0	0

- Molecule 59 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	3E	1	Total Fe S 8 4 4	0	0
59	32	1	Total Fe S 8 4 4	0	0

- Molecule 60 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	5I	1	Total Zn 1 1	0	0
60	G8	1	Total Zn 1 1	0	0
60	5A	1	Total Zn 1 1	0	0
60	C5	1	Total Zn 1 1	0	0

- Molecule 61 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	13	126	Total O 126 126	0	0
61	3I	2	Total O 2 2	0	0
61	5I	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1K	8	Total O 8 8	0	0
61	3K	1	Total O 1 1	0	0
61	4K	2	Total O 2 2	0	0
61	1H	629	Total O 629 629	0	0
61	16	29	Total O 29 29	0	0
61	11	7	Total O 7 7	0	0
61	21	4	Total O 4 4	0	0
61	31	9	Total O 9 9	0	0
61	58	2	Total O 2 2	0	0
61	78	7	Total O 7 7	0	0
61	88	1	Total O 1 1	0	0
61	B8	1	Total O 1 1	0	0
61	E8	2	Total O 2 2	0	0
61	F8	1	Total O 1 1	0	0
61	G8	1	Total O 1 1	0	0
61	I8	3	Total O 3 3	0	0
61	L8	2	Total O 2 2	0	0
61	1G	78	Total O 78 78	0	0
61	32	1	Total O 1 1	0	0
61	5A	2	Total O 2 2	0	0
61	14	417	Total O 417 417	0	0

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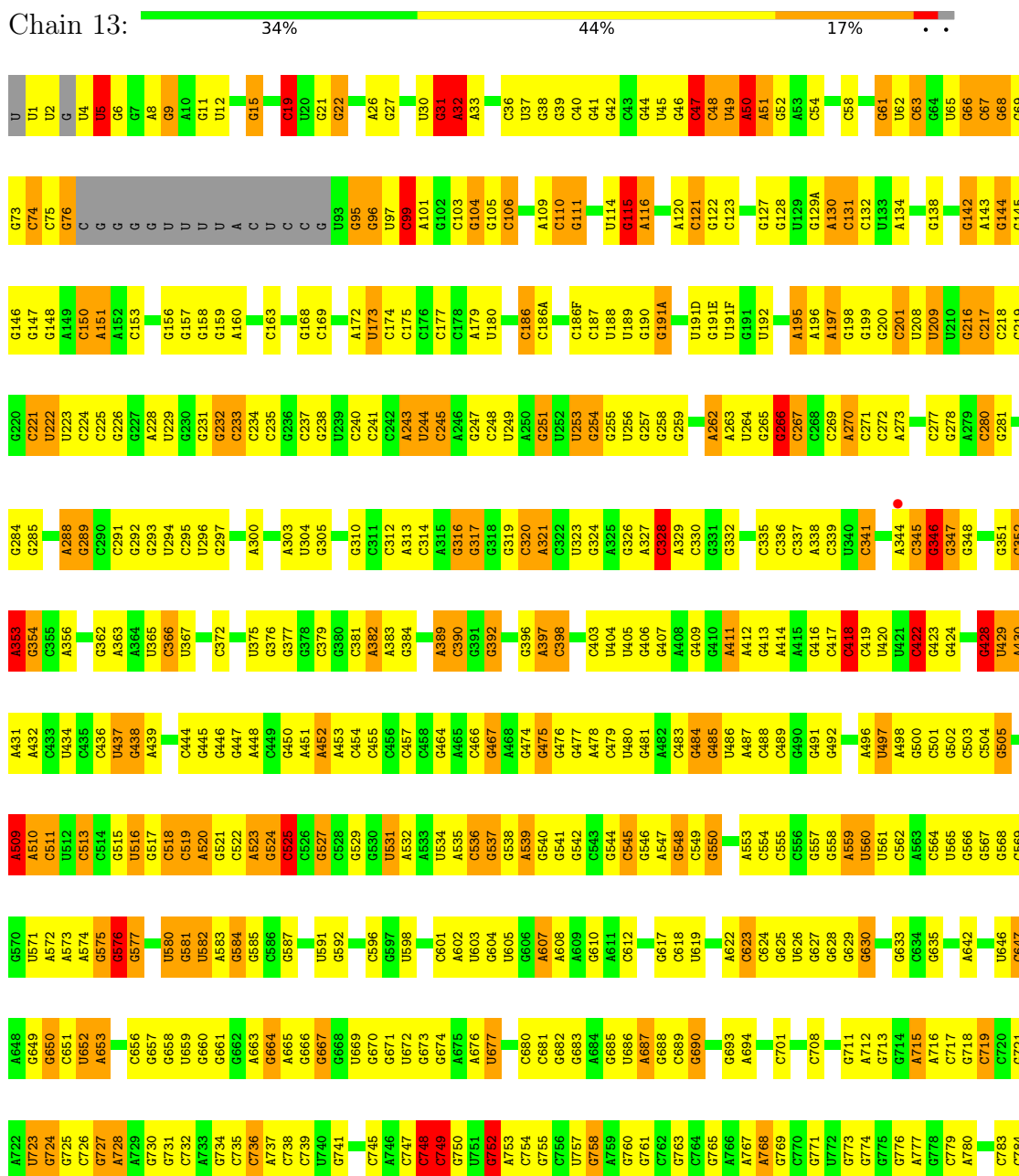
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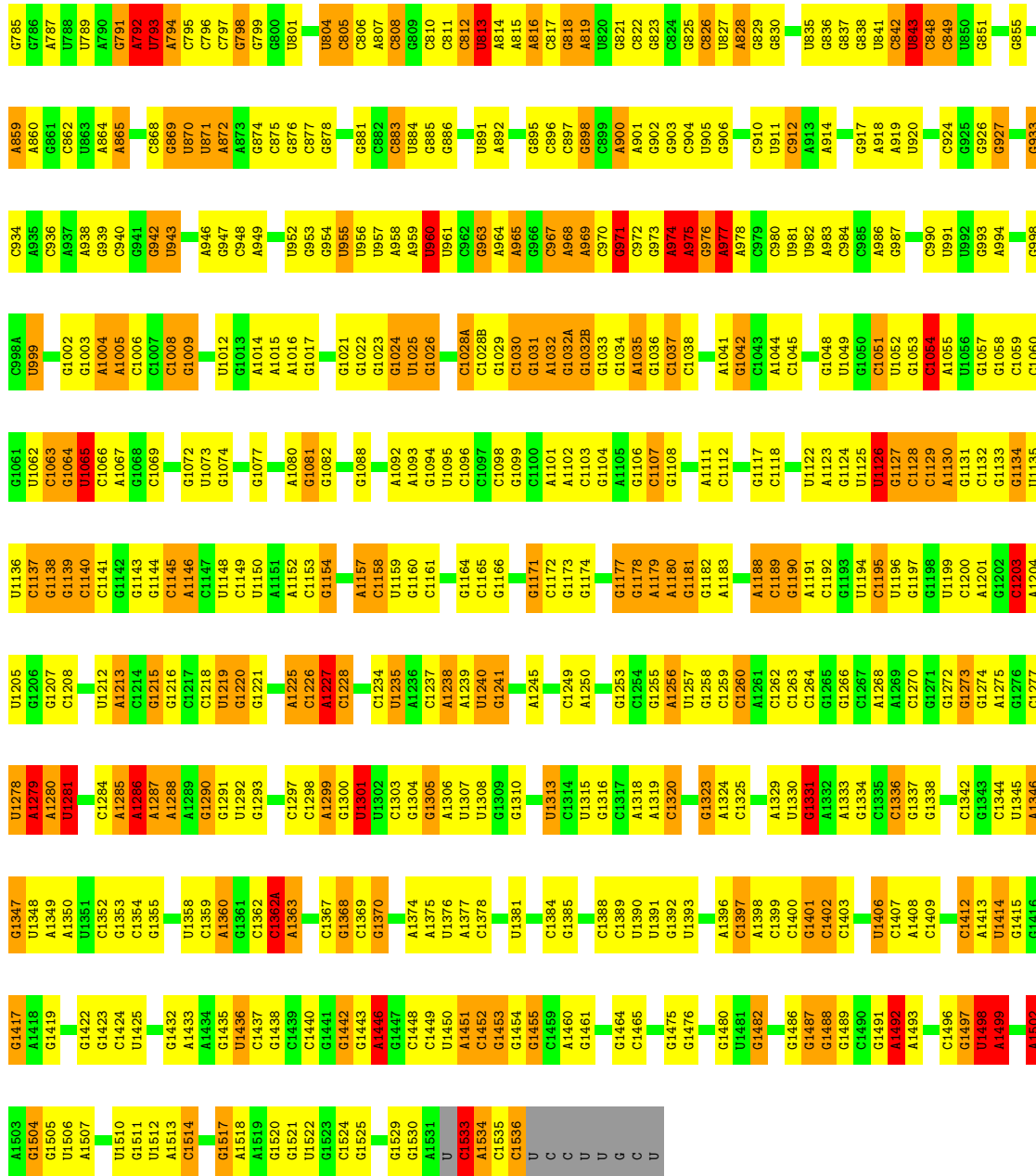
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1J	6	Total O 6 6	0	0
61	19	8	Total O 8 8	0	0
61	29	2	Total O 2 2	0	0
61	39	5	Total O 5 5	0	0
61	35	1	Total O 1 1	0	0
61	55	1	Total O 1 1	0	0
61	A5	1	Total O 1 1	0	0
61	H5	2	Total O 2 2	0	0

3 Residue-property plots

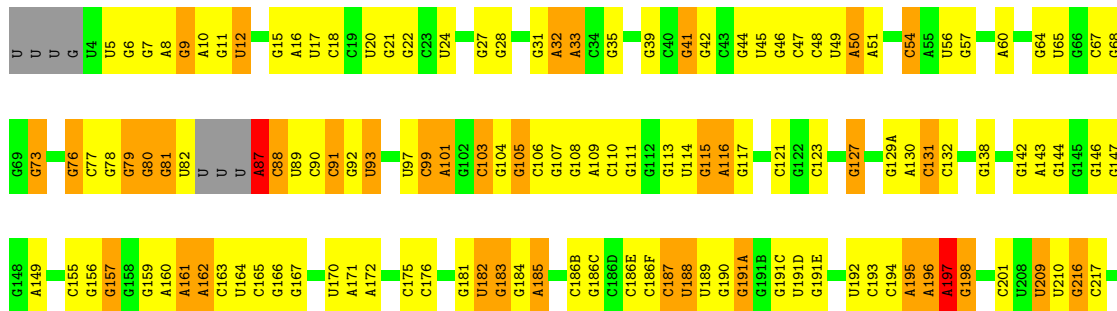
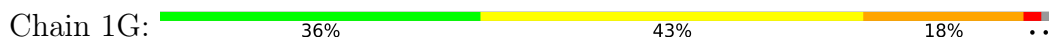
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: 16S rRNA

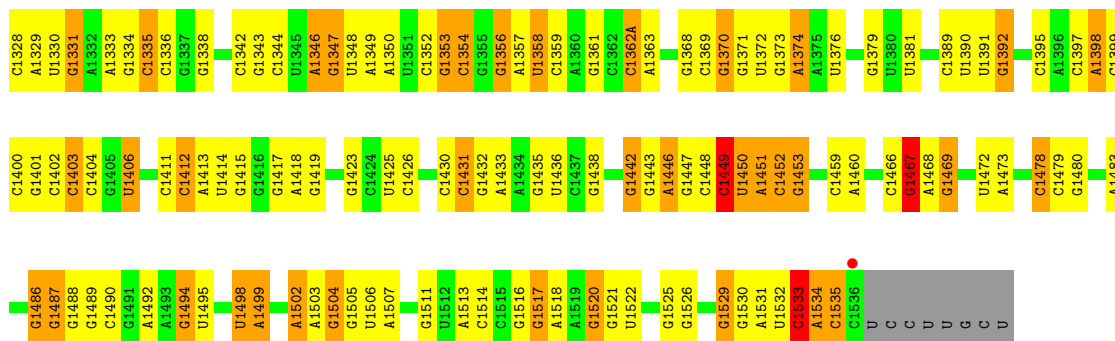




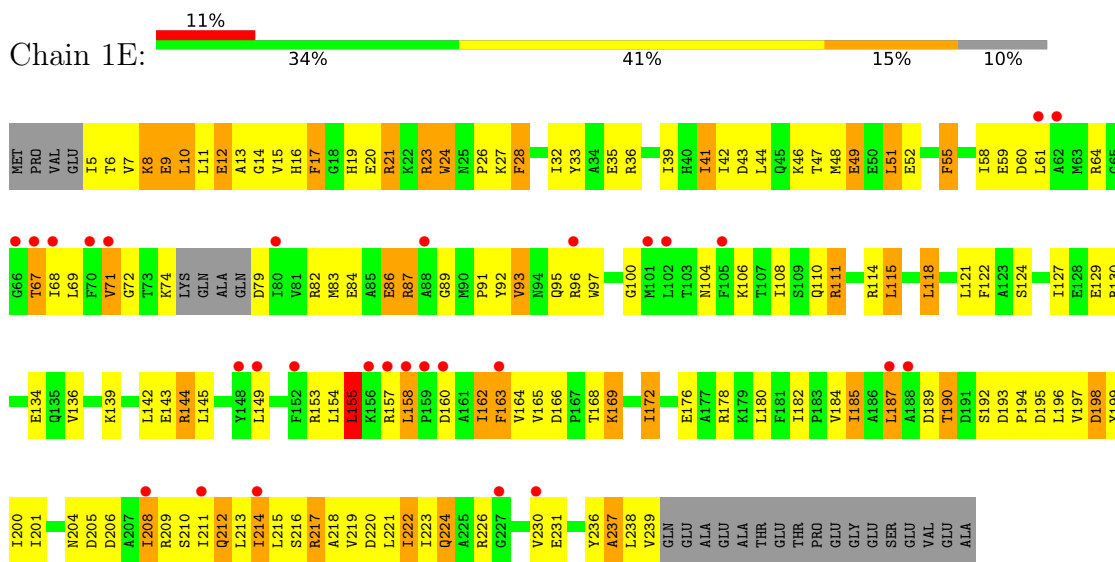
• Molecule 1: 16S rRNA



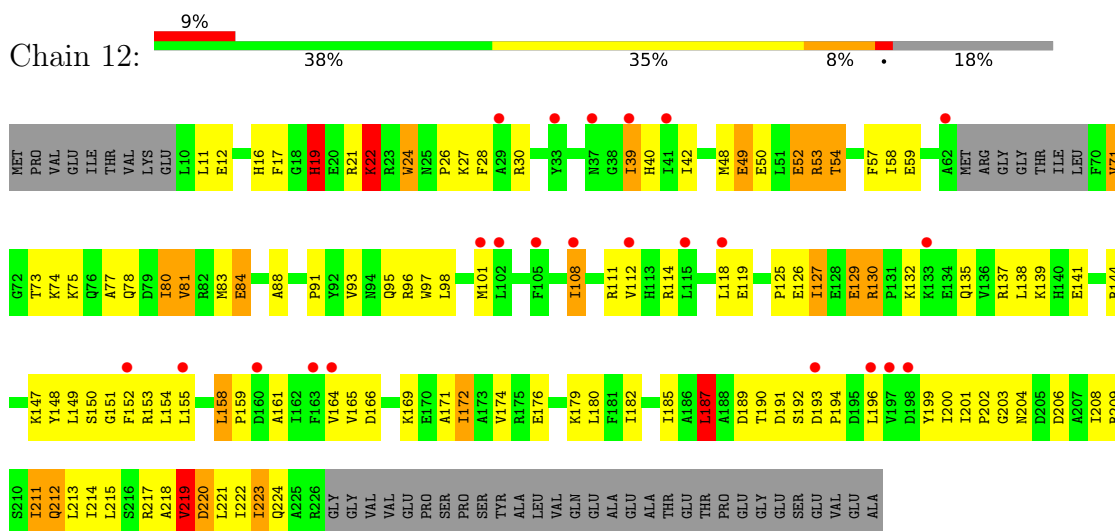
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A1268	A1201	U1136	U1062	A1000	C934	G852	G769	A675	C601	A533	G450	G378	A298	C221
A1269	G1202	C1137	C1063	G1001	A935	G853	C770	A676	A602	U534	A451	G384	G299	U222
G1270	C1203	G1138	G1064	G1002	C936	G854	G771	U677	U603	A452	A451	G385	A300	U223
G1271	A1204	G1139	U1065	G1003	A937	G855	U772	G681	G604	C536	A453	U387	G301	C224
G1272	U1205	C1140	C1066	A1004	A938	G856	G775	C681	U605	G537	C454	U388	C225	C225
G1273	G1206	C1141	A1067	A1005	A939	G857	G776	G682	G606	C538	C455	A389	G309	G226
G1274	G1207	G1142	G1068	C1006	G942	G858	A777	G683	A607	A539	C456	C390	G310	G227
A1275	C1208	G1143	C1069	C1007	G943	G859	G778	G684	A608	A540	C457	C391	C311	A228
G1276	G1209	G1144	U1070	G1008	G945	A860	A780	G685	A609	G541	C458	C392	C312	U229
C1277	C1210	C1145	C1071	G1009	G946	G861	A781	U686	A610	G542	G464	A393	C313	G230
U1278	U1211	A1146	G1072	G1010	G947	G862	A782	A687	A665	G543	G465	G394	G314	
A1279	U1212	C1147	U1073	G1011	A948	U683	A783	G688	C666	G544	C466	C395	G315	C235
A1280	A1213	U1148	A1014	A1014	A949	A684	C783	C689	A667	A545	C467	C396	G316	C236
U1281	C1214	C1149	C1076	A1015	U950	A865	C784	G690	G615	A546	A468	C397	G317	C237
A1282	G1215	U1150	U1077	A1016	U951	A866	C785	G691	G616	G547	A469	C398	A321	
G1283	G1216	A1151	C1151	G1017	G952	C868	A787	U692	G617	U552	G475	C401	A322	C240
A1285	C1217	C1152	A1080	U1020	G953	C869	G791	C701	U619	C555	G484	U404	A323	C242
A1286	U1218	G1153	G1081	G1021	U955	C870	A792	A702	A621	C556	G485	U405	A324	A243
A1287	U1219	C1154	A1082	G1022	U956	A872	U793	A703	G625	A559	G486	U406	A325	C244
A1288	G1155	G1084	G1095	G1023	U957	A873	A794	A704	U626	U560	A487	G407	A326	A245
A1289	G1156	C1095	A958	G1024	A959	C874	A795	C875	C488	C488	C488	G408	A327	C246
G1290	C1221	A1157	A1029	U1025	U960	C876	U801	G707	C489	C489	C489	A409	G332	A246
G1291	G1223	C1158	G1026	U1026	U961	C877	A802	C708	G628	C562	C491	G410	G333	G247
U1292	A1225	U1159	C1027	C1027	C962	C878	A803	C709	G629	A563	G492	G411	C384	A250
G1293	C1226	C1161	C1028	C1028	G963	C882	G803	G718	U630	C564	A411	G412	C335	U252
G1294	A1227	G1162	U1029	G1029	A965	C885	U804	G719	C630	C565	A412	A412	C336	U253
G1295	C1228	G1163	G1030	G1030	A966	C886	C805	C719	G631	U566	A413	A413	C337	G254
		G1164	C1031	C1031	C967	C887	A807	C720	A632	G566	U497	A414	C338	G255
			A1102	G1032	A968	C888	C808	U723	C634	G570	C501	A415	A344	U256
			C1103	A1032	A969	A892	G724	G725	G635	U571	G502	A416	C345	U257
			G1104	G1032A	C970	C893	G726	C726	C643	A572	C503	U420	G346	G258
			A1105	G1032B	C971	C894	C727	C727	G644	A573	G504	U421	G347	
			G1106	G1033	C972	C895	C728	C728	G645	A574	G505	C422	G350	U261
			C1107	C1033	G973	C896	A814	G731	U646	G575	G506	G423	G351	A262
			G1108	G1036	A974	C897	A815	C731	C647	G576	C507	G424	C352	A263
			C1109	C1037	A975	C904	A816	C735	A648	U580	C508	G425	A353	U264
			A1110	C1038	G976	U905	C817	C736	G649	A510	A509	G426	C354	G265
			G1111	C1039	A977	G906	C818	C737	G650	C511	C511	U427	C355	G266
			C1112	U1040	A978	C907	C819	C739	G651	C512	C512	G428	A356	C267
			G1113	A1041	C979	A908	U820	U740	C652	U582	U512	U429	A357	
			C1114	C1042	C980	A909	G821	G741	U652	A583	C513	A430	U359	C271
			C1118	C1043	U981	C913	C826	C748	A653	G584	C514	A431	A360	C272
			G1119	G1047	U982	A913	U827	C749	G654	G585	G515	A432	G361	G276
			C1122	U1048	A983	A914	C828	C750	A655	C586	U516	C433	G362	G277
			A1123	C1049	C984	A915	G829	G751	G660	G587	G517	U434	A363	C277
			G1124	G1050	C985	G916	G829	G752	G661	G588	C518	U437	U365	C280
			C1051	C1051	A986	U920	C834	A753	G662	C589	C519	G438	C366	G281
			U1052	U1052	U991	U921	U835	C754	G664	C590	A520	G439	U367	U287
			G1053	G1053	U992	U922	U836	C755	A665	U591	G521	A438	G370	U288
			C1054	C1054	G993	G923	G837	C756	G666	G592	C522	A440	C370	A288
			U1055	U1055	A994	A923	G838	U757	G667	G593	A523	C442	G371	G289
			C1056	C1056	C995	G924	U841	G758	G668	G594	C443	C444	C372	C290
			G1057	G1057	A996	G925	C842	A759	U669	G595	G527	C445	A373	C291
			U1058	U1058	U997	G926	C843	C760	G670	C596	G528	G445	A374	C295
			C1059	C1059	G998	U927	U843	C761	G671	U598	G529	G446	U375	G296
			C1060	C1060	C998A	C932	C844	C762	G672	C599	U531	A448	G376	



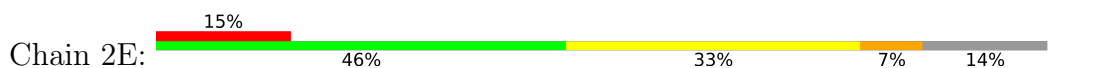
• Molecule 2: 30S ribosomal protein S2

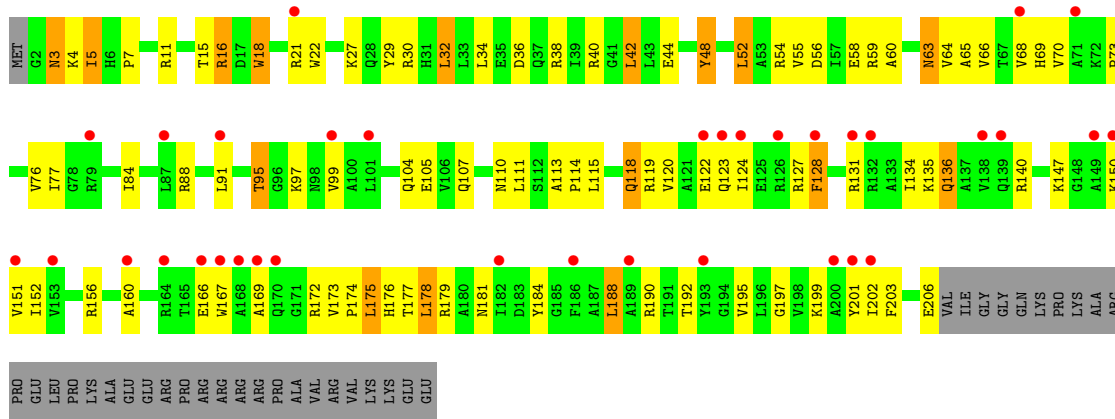


• Molecule 2: 30S ribosomal protein S2

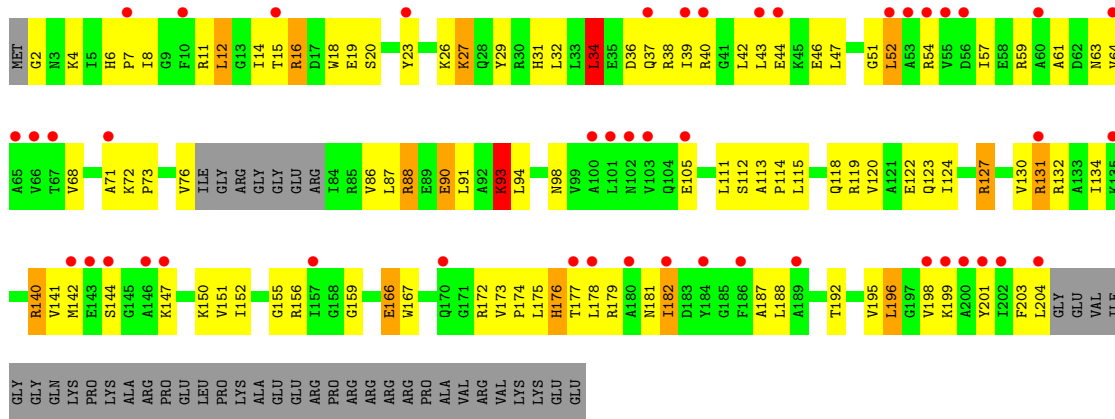


• Molecule 3: 30S ribosomal protein S3

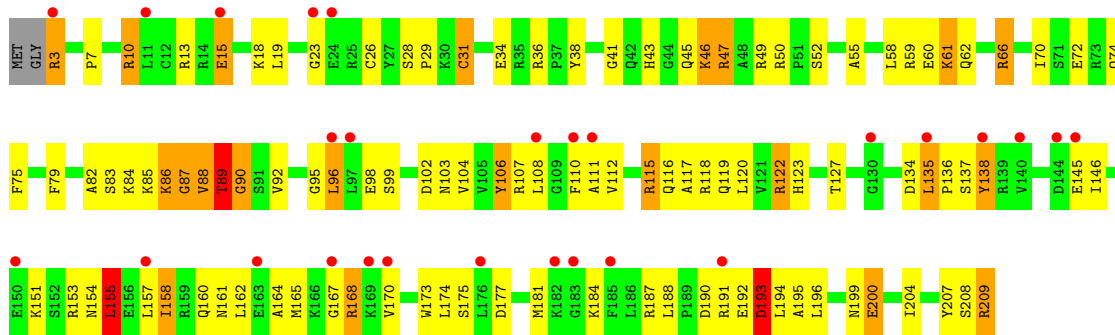




• Molecule 3: 30S ribosomal protein S3

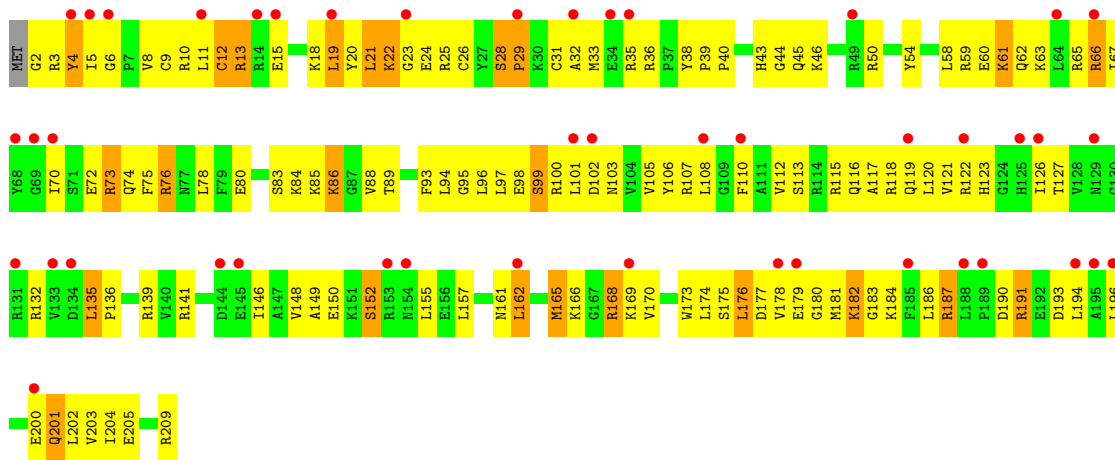


• Molecule 4: 30S ribosomal protein S4

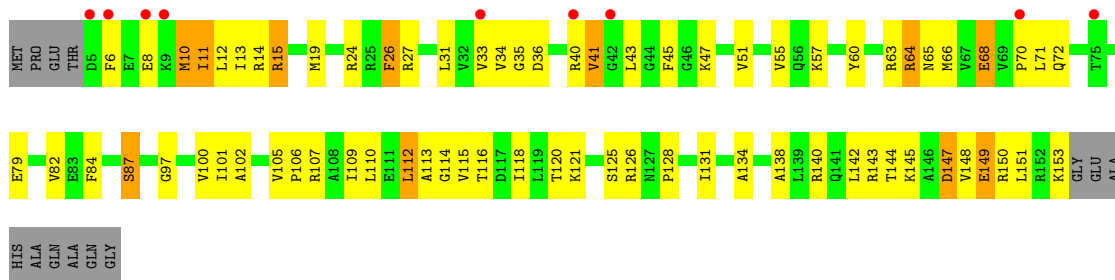


• Molecule 4: 30S ribosomal protein S4

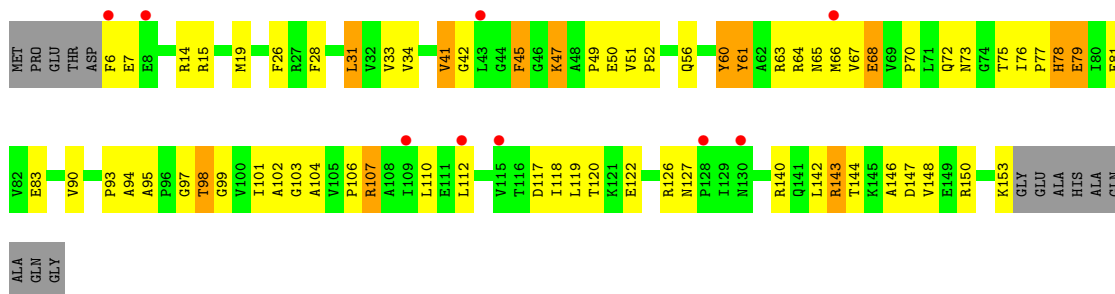




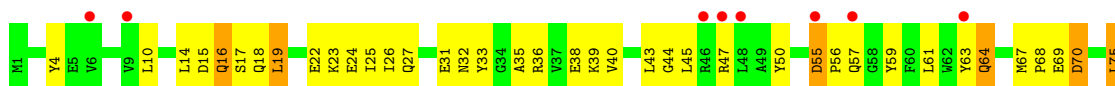
- Molecule 5: 30S ribosomal protein S5

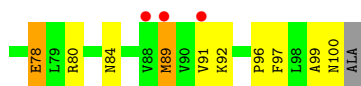


- Molecule 5: 30S ribosomal protein S5

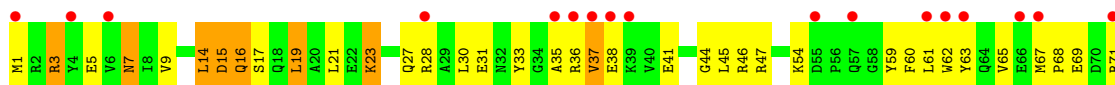


- Molecule 6: 30S ribosomal protein S6

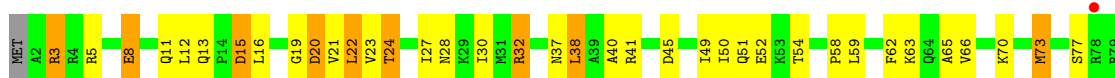




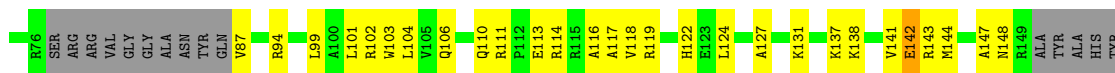
- Molecule 6: 30S ribosomal protein S6



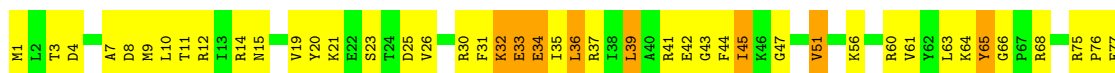
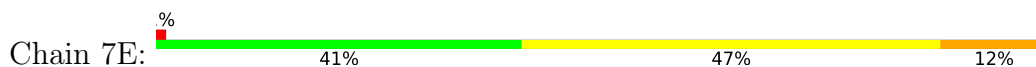
- Molecule 7: 30S ribosomal protein S7



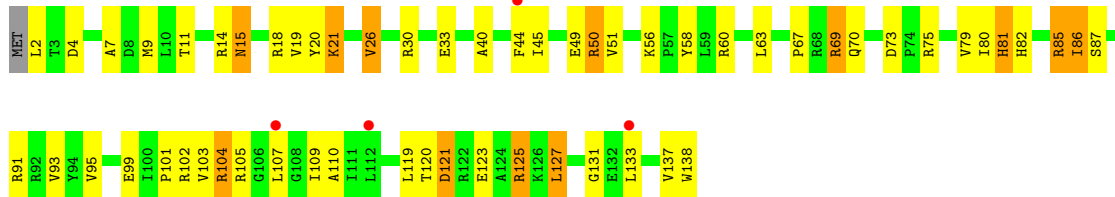
- Molecule 7: 30S ribosomal protein S7



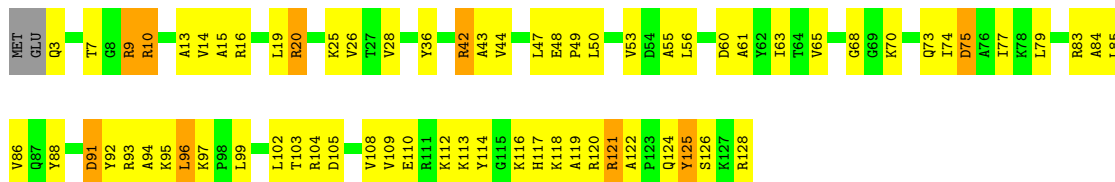
- Molecule 8: 30S ribosomal protein S8



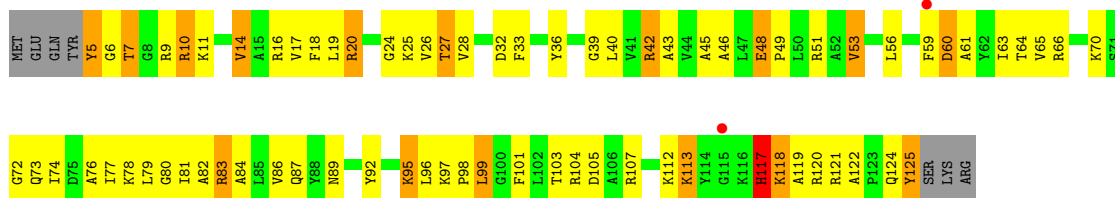
- Molecule 8: 30S ribosomal protein S8



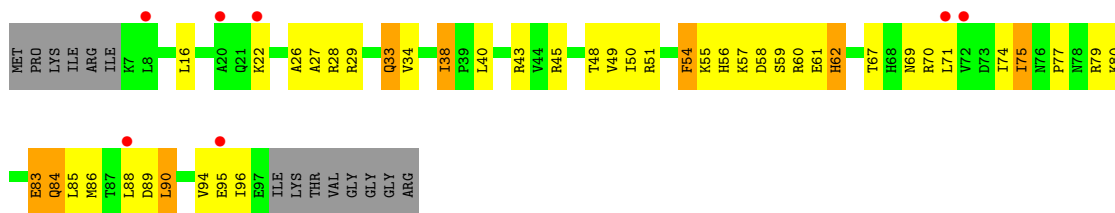
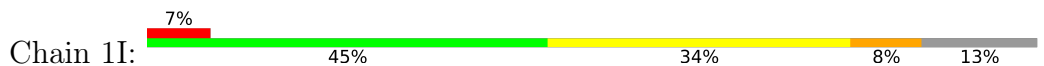
• Molecule 9: 30S ribosomal protein S9



• Molecule 9: 30S ribosomal protein S9



• Molecule 10: 30S ribosomal protein S10

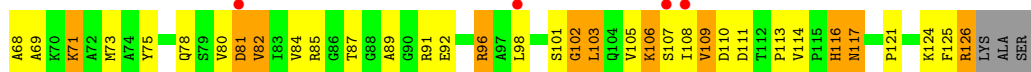


• Molecule 10: 30S ribosomal protein S10

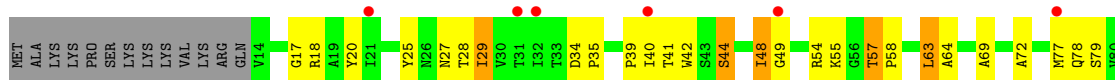




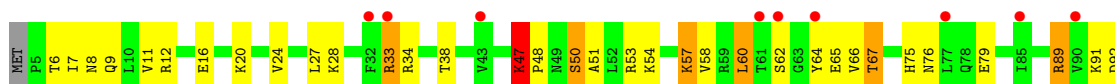
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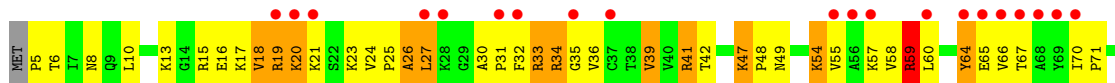
- Molecule 11: 30S ribosomal protein S11



- Molecule 12: 30S ribosomal protein S12

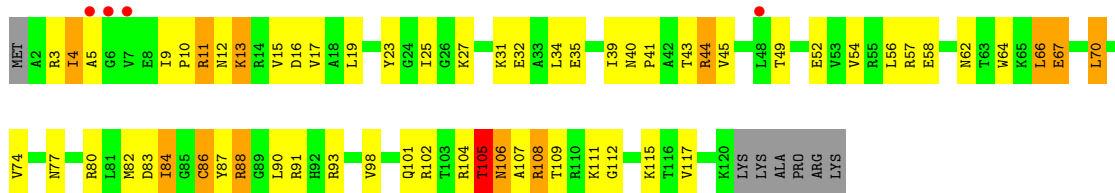


- Molecule 12: 30S ribosomal protein S12

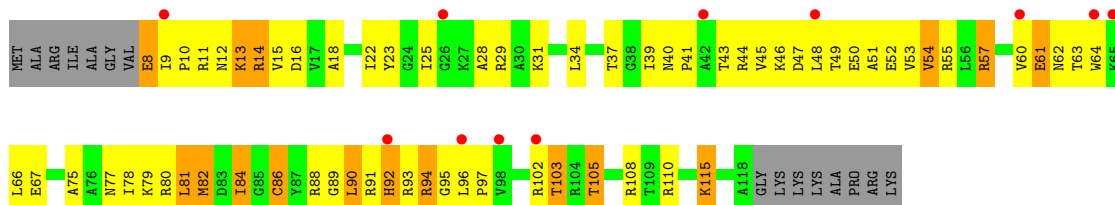


- Molecule 13: 30S ribosomal protein S13

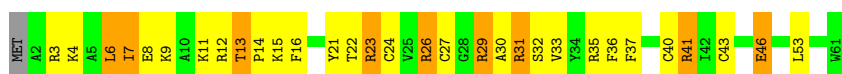




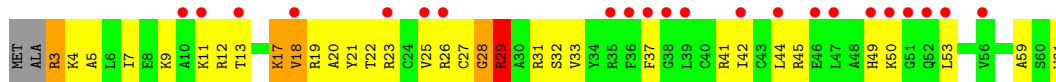
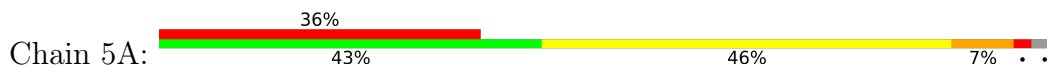
- Molecule 13: 30S ribosomal protein S13



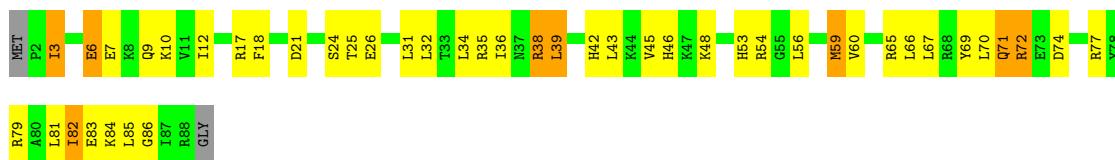
- Molecule 14: 30S ribosomal protein S14 type Z



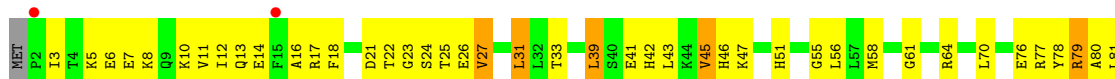
- Molecule 14: 30S ribosomal protein S14 type Z



- Molecule 15: 30S ribosomal protein S15

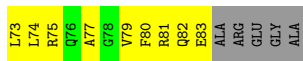
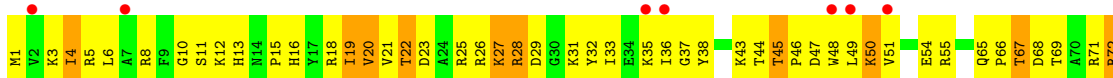


- Molecule 15: 30S ribosomal protein S15

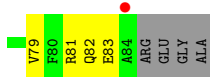
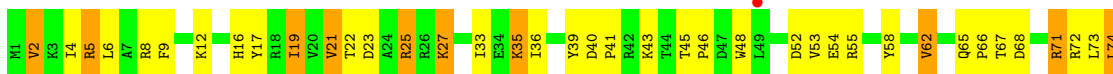




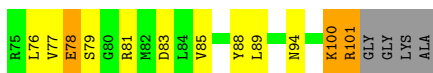
- Molecule 16: 30S ribosomal protein S16



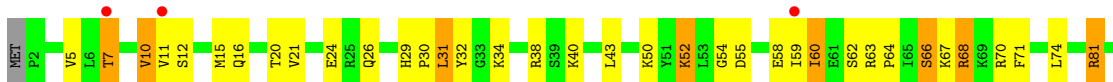
- Molecule 16: 30S ribosomal protein S16



- Molecule 17: 30S ribosomal protein S17



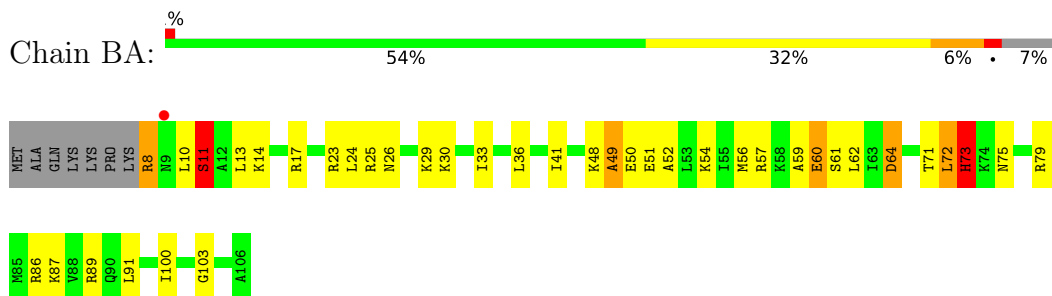
- Molecule 17: 30S ribosomal protein S17



- Molecule 18: 30S ribosomal protein S18



- Molecule 20: 30S ribosomal protein S20



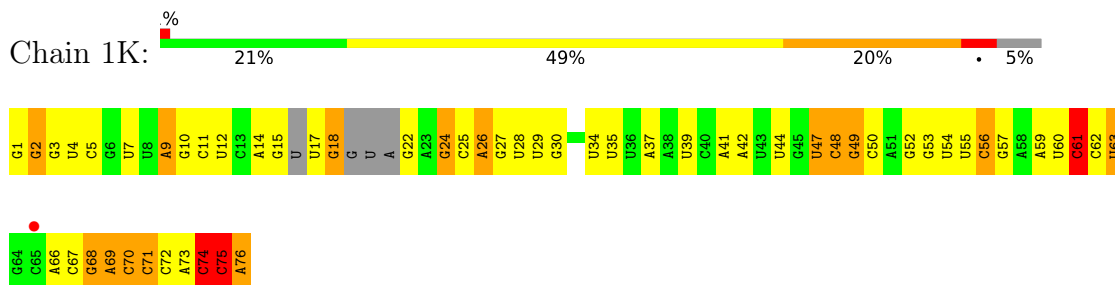
- Molecule 21: 30S ribosomal protein Thx



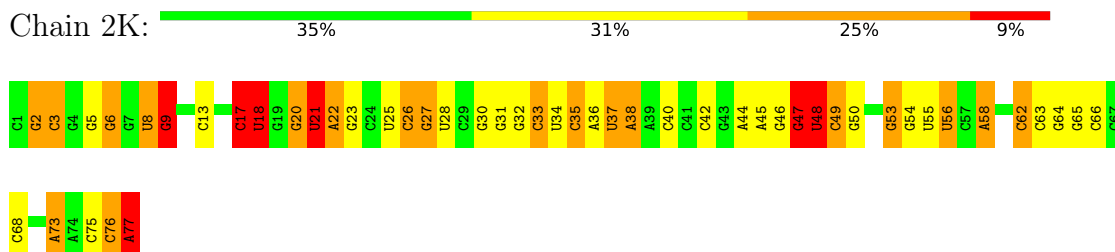
- Molecule 21: 30S ribosomal protein Thx



- Molecule 22: tRNA^{Lys}

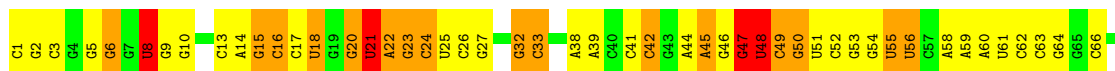


- Molecule 23: tRNA^{fMet}

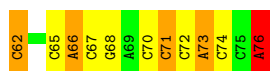
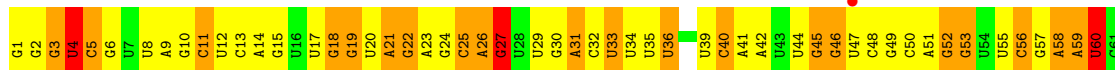
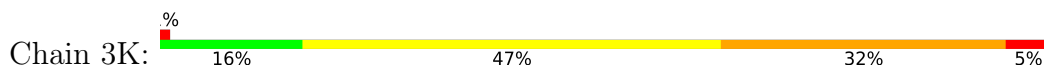


- Molecule 23: tRNA^{fMet}

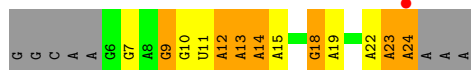




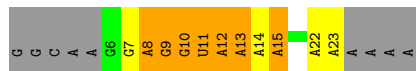
• Molecule 24: tRNALys



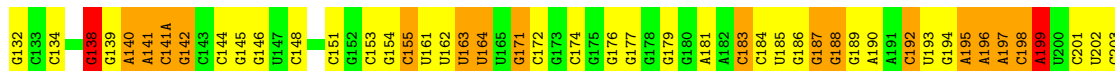
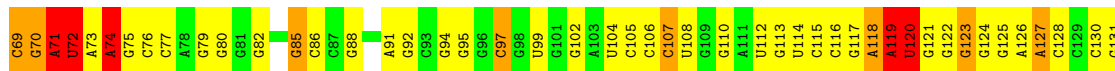
• Molecule 25: mRNA



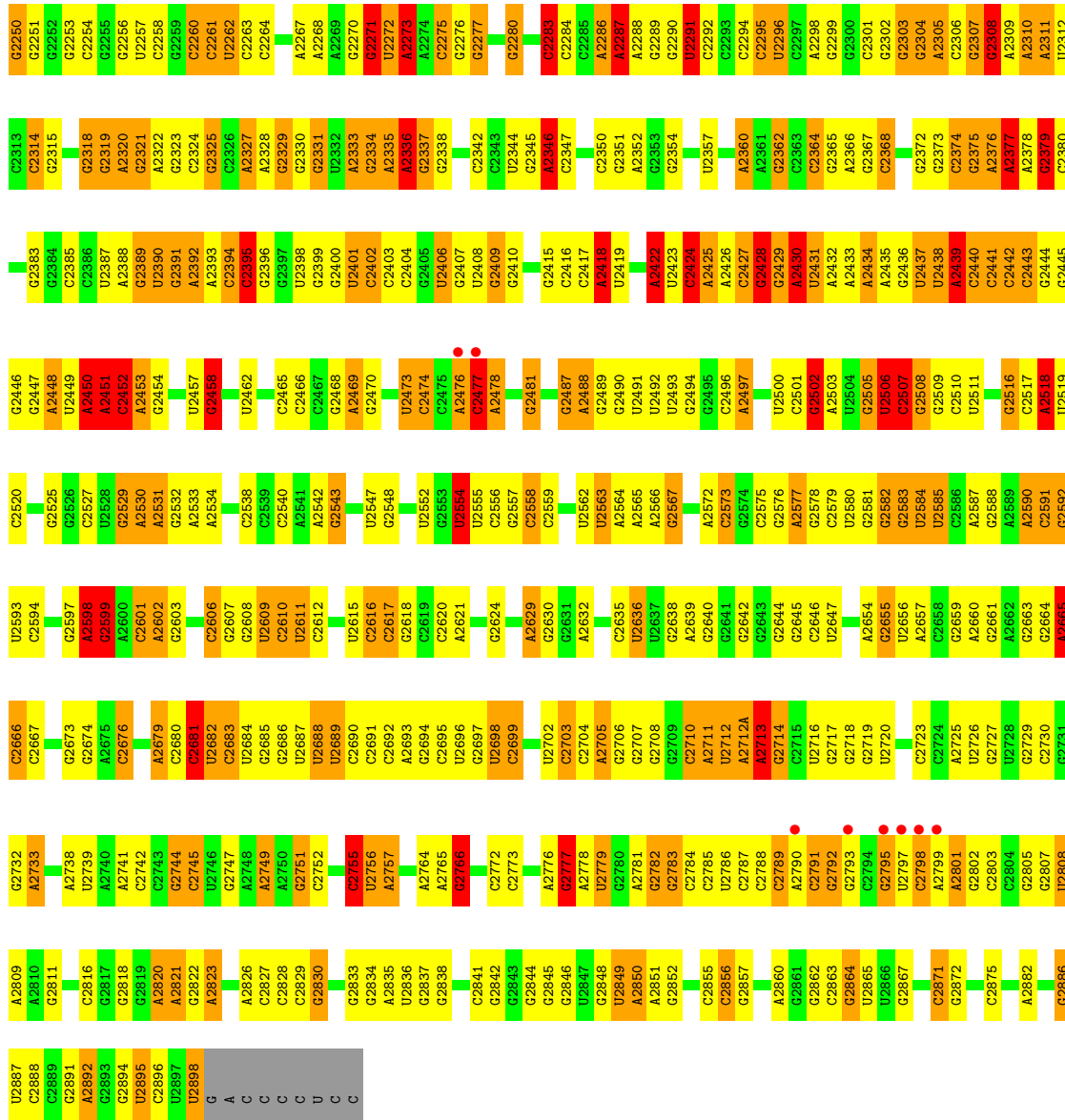
• Molecule 25: mRNA



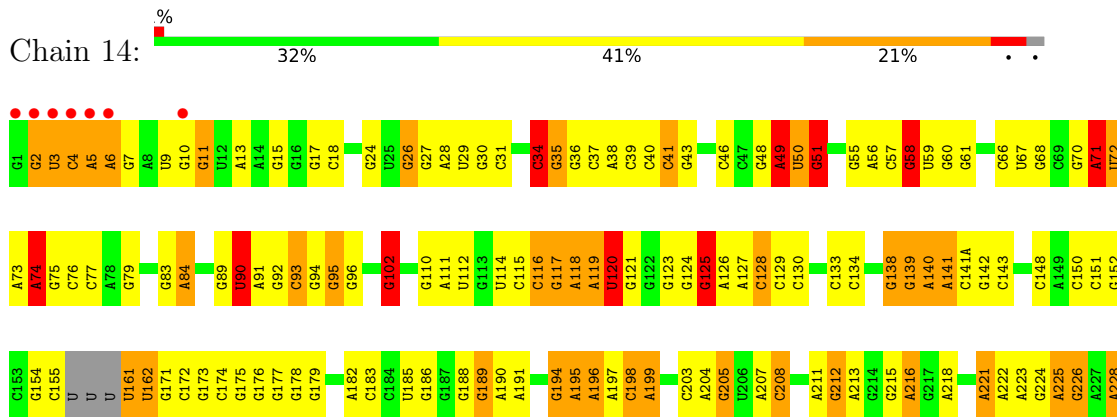
• Molecule 26: 23S rRNA



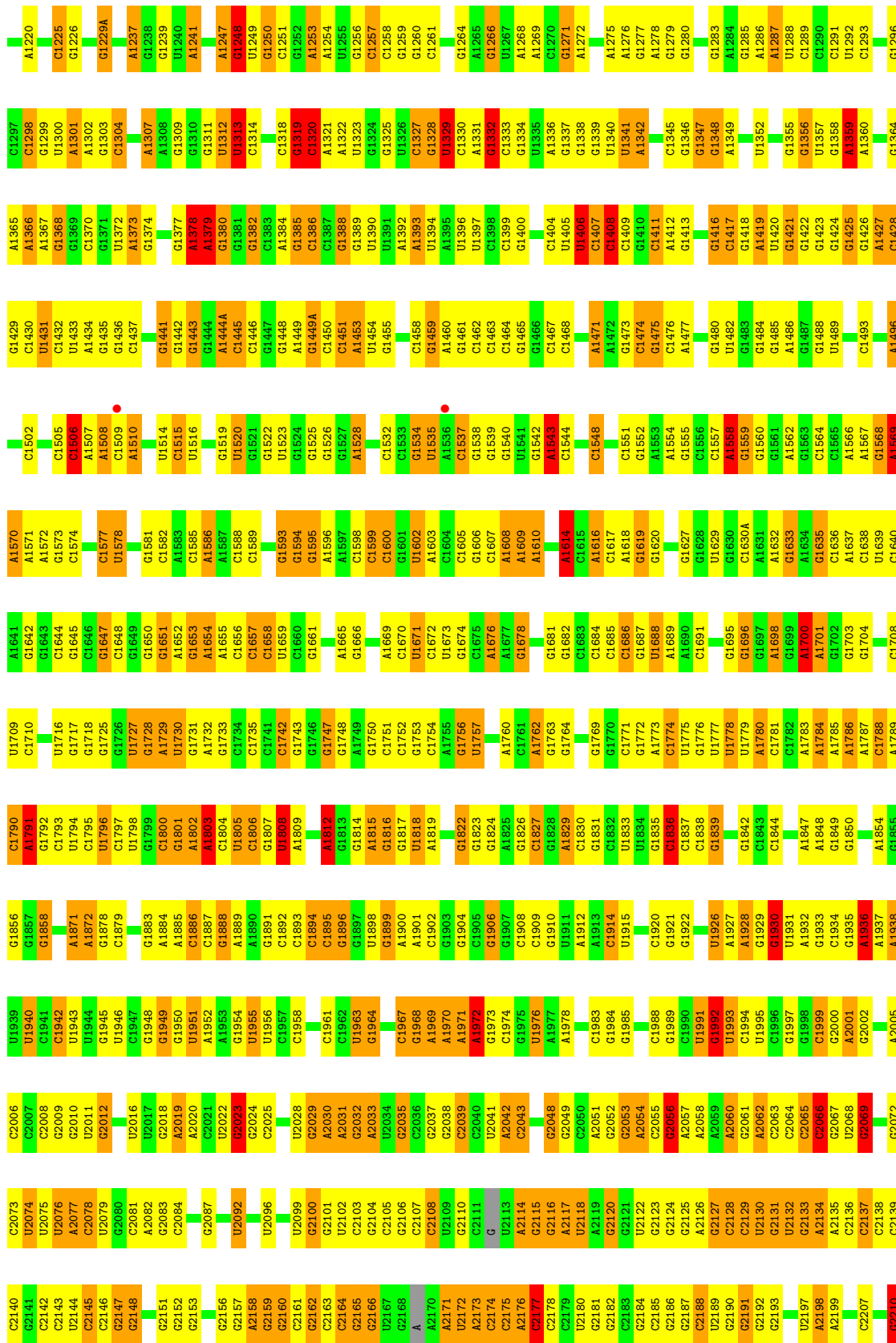
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C2175	G2112	C2043	A1977	G1823	A1759	G1674	C1615	A1553	U1489	U1420	G1296	C1295
A2176	U2113	C2044	A1978	G1824	A1760	G1675	G1616	A1554	U1488	G1421	G1297	G1296
C2177	G2114	C2045	C1979	A1825	C1761	A1676	C1617	C1555	A1490	G1422	A1359	C1298
C2178	G2115	G2046	G1980	G1826	A1762	A1677	G1618	C1556	G1491	G1423	C1298	C1298
A2179	G2116	U2047	A1981	U1827	G1763	G1678	G1619	C1557	G1492	G1424	G1361	G1299
G2179	A2117	G2048	C1982	G1827	G1764	U1679	G1620	A1558	C1493	G1425	C1362	U1300
G2180	C1983	G1828	G1983	G1828	C1765	U1680	G1621	C1559	U1494	G1426	C1363	A1301
G2181	G1984	A1829	A1829	G1829	C1766	G1681	G1622	G1560	A1495	A1427	G1364	A1302
G2182	U1915	G1830	G1830	G1830	C1767	G1682	G1623	C1561	A1496	G1428	G1365	G1303
C2183	A1916	G1831	G1831	G1831	C1771	C1683	G1624	A1562	G1497	G1429	A1366	C1304
G2184	G1917	U1832	U1832	U1832	G1772	C1684	C1625	G1563	U1430	G1430	A1367	C1305
G2185	A1918	U1833	U1833	U1833	G1773	C1685	G1626	C1564	U1431	U1431	C1368	C1306
G2186	C1989	G1834	G1834	G1834	A1773	G1686	G1627	C1565	C1370	A1432	G1369	A1307
U2189	U1919	U1835	U1835	U1835	C1774	G1687	G1628	A1566	G1370	U1433	C1370	A1308
G2190	G1991	G1836	G1836	G1836	U1775	U1688	G1629	A1567	C1504	A1434	G1371	G1309
G2191	U1983	G1837	G1837	G1837	G1776	A1689	G1630	C1568	U1435	A1434	U1372	G1372
G2192	U1983	G1838	G1838	G1838	U1777	A1690	C1630A	A1569	C1506	A1435	A1373	G1373
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G2198	C1989	G1842	G1842	G1842	U1779	C1694	A1632	A1508	U1438	U1438	C1375	U1314
A2199	G2000	G1843	G1843	G1843	A1780	C1695	A1633	A1509	G1376	A1439	C1376	C1315
C2205	A2001	C1844	C1844	C1844	C1781	G1695	A1634	A1510	G1377	G1440	G1377	U1316
G2206	G2002	G1847	G1847	G1847	C1782	G1696	C1635	C1574	A1511	G1441	A1378	A1317
C2207	G2003	U1847	U1847	U1847	A1783	G1697	C1636	C1575	A1512	G1442	A1379	C1318
U2208	G2004	U1851	U1851	U1851	A1784	A1698	A1637	U1576	C1513	G1443	G1380	G1319
C2209	G2006	U1852	U1852	U1852	A1785	G1699	C1638	C1577	U1514	G1444	G1381	C1320
G2210	C2007	A1853	A1853	A1853	A1786	A1700	U1639	U1578	A1444A	A1444A	G1382	A1321
G2141	C2007	U1940	U1940	U1940	A1787	A1701	C1640	A1579	U1516	A1445	G1383	U1322
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C2143	A2013	U1942	U1942	U1942	A1789	G1703	G1642	G1581	G1385	G1385	A1385	G1324
U2144	A2014	C1943	C1943	C1943	C1790	G1704	G1643	C1582	C1386	C1386	G1386	G1325
C2145	A2015	U1944	U1944	U1944	A1791	G1705	C1644	A1583	C1387	C1387	U1326	U1325
C2146	U2016	G1945	G1945	G1945	G1792	U1706	G1645	C1585	G1388	A1453	G1327	G1328
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G2148	G2018	G1947	G1947	G1947	U1794	C1708	G1647	A1587	U1329	G1455	U1329	U1329
G2149	A2019	U1948	U1948	U1948	C1795	U1709	G1648	C1588	G1524	G1456	C1330	C1330
U2150	A2020	G1949	G1949	G1949	U1796	C1710	G1649	G1589	G1525	G1459	A1393	A1331
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G2152	U2022	G1951	G1951	G1951	U1798	C1712	G1651	C1591	G1527	A1460	G1333	C1333
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G2156	G2026	C1958	C1958	C1958	A1803	A1729	C1656	A1595	G1464	G1464	G1400	G1337
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G2160	A2030	C1964	C1964	C1964	G1807	A1732	C1660	C1600	C1468	A1468	C1404	U1341
C2161	A2031	G1965	G1965	G1965	U1808	C1735	G1661	G1601	G1538	A1469	U1405	A1342
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C2163	A2033	C1967	C1967	C1967	A1810	G1748	C1663	G1603	G1540	A1471	C1407	G1344
G2164	U2034	G1968	G1968	G1968	G1811	A1749	A1664	C1604	A1543	G1475	C1408	C1345
G2165	G2035	U1969	U1969	U1969	A1812	A1749	A1665	C1605	C1544	G1476	G1409	G1346
G2166	C2036	A1970	A1970	A1970	G1813	C1752	G1666	G1606	A1545	A1477	G1412	G1347
G2167	G2037	A1971	A1971	A1971	G1816	G1753	G1667	C1607	A1547	G1478	G1413	A1348
G2168	G2038	A1972	A1972	A1972	A1817	C1754	A1668	A1608	C1547	A1479	G1414	G1349
A2170	C2039	U1973	U1973	U1973	G1818	A1755	A1669	A1609	G1548	G1480	U1415	C1350
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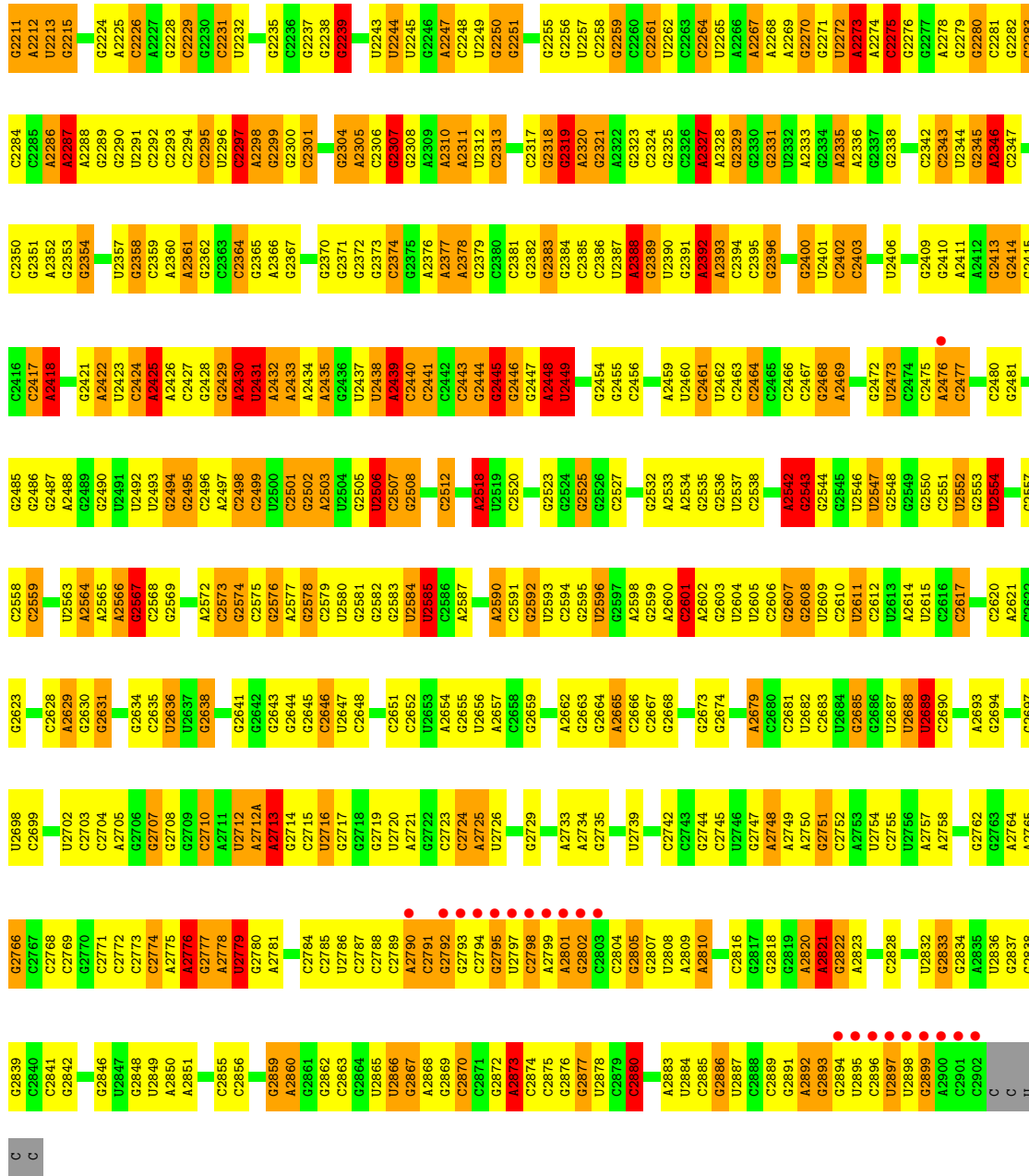


• Molecule 26: 23S rRNA

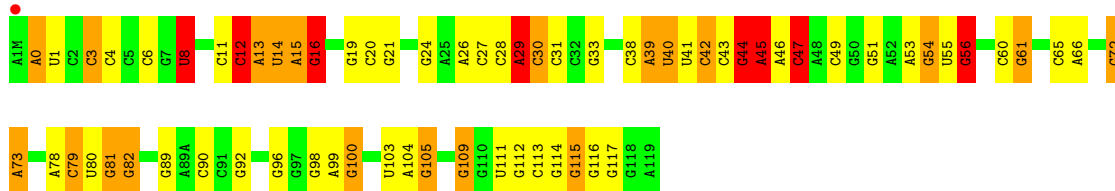
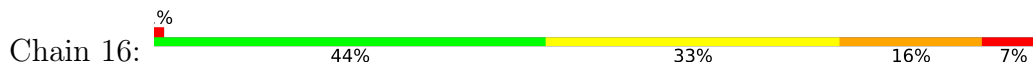


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C153	C153	A1086	G1025	U958	A996	G832	C693	A654	A586	U519	U449	G363	A276	U230
G1154	U1026	C997	U1026	A959	C997	U833	U694	A654A	C587	G520	G450	G363C	C277	A233
A1155	A1027	C998	G695	A960	C998	U834	G695	C654A	U588	G521	C451	G370	A278	C234
A1156	A1028	A999	C834	A961	A999	G835	G696	G654C	C590	G522	G452	A371	C279	U235
G1157	A1029	A900	A835	A901	A900	G836	C697	G654D	C591	C523	C453	U284	A283	C236
A1158	G1030	C902	G772	A902	C902	C837	A699	C	C592	U524	A454	G372	U284	
U1159	G1031	C903	U774	A903	C903	C838	A699	C	C593	U525	C455	U373	U284	U239
G1160	A1032	C904	G776	A904	C904	U839	G700	C	C594	A526	C456	G374	U284	
C1161	U1033	C905	A777	A905	C905	G840	G704	C	G596	C527	A457	C375	C286	G240
U1165	G1034	G906	G778	A906	G906	G841	A705	C	U597	A528	G458	C375	C287	A241
C1166	U1035	A907	U779	A907	A907	G842	A706	A	G598	A529	U459	C375	C288	G242
U1167	G1036	U907	G780	A908	U907	G843	G707	C	G600	G530	U460	C375	C288	U243
G1168	U1037	C908	A781	A909	C908	C946	C708	C	G601	C532	C461	G380	A289	
A1169	C1038	A909	A782	A910	A909	U947	U709	G	G602	A533	G382	G372	G290	G247
G1170	G1039	A910	A783	A911	A910	U947	U709	C	G603	G534	U383	U372	G290	G248
G1171	C1040	A911	A784	A912	A911	G948	G717	C	A604	U534	U384	U372	G290	G249
G1172	U1041	C912	G785	A913	C912	A849	A718	C	G605	C535	A300	U384	A300	G250
U1106	G1042	U913	G786	A914	U913	G850	C719	C	U606	A536	G301	U384	A301	A251
A1174	C1043	C914	U787	A915	C914	C851	C720	C	U607	G537	C302	U384	A302	G252
U1175	U1044	C915	A788	A916	C915	U851	C721	C	A608	G540	U303	U384	A303	A256
G1176	A	A916	A789	A917	A916	G852	A722	C	A609	C541	U303	U384	A304	
A1177	G1047	A917	C791	A918	A917	G853	C723	C	G609A	C542	U303	U384	A305	G259
G1178	U1048	A918	G792	A919	A918	G854	U724	C	C546		A478	C392	G307	
G1179	C1049	G919	A793	A920	A919	G855	G725	C	U613		A479	A394	G308	A265
C1180	U1050	G920	G794	A921	A920	U856	G726	C	U614		A480	A394	G309	G266
U1181	G1051	G921	G795	A922	A921	G857	A727	C	A547		A481	U395	G310	C267
A1182	C1052	U922	C796	A923	U922	U860	G728	C	U615		A482	G396	A311	
G1183	U1053	C923	G797	A924	C923	G861	G729	C	G616		A483	U397	A312	G270E
U1184	A1054	C924	C798	A925	C924	G862	C730	C	U617		A484	U398	A312	G270F
C1185	G1055	A925	G799	A926	A925	G863	C731	C	G618		A485	A401	A312	G270G
G1186	U1056	G926	A800	A927	A926	G864	C732	C	U619		A486	U405	A312	C270H
U1187	C1057	G927	G801	A928	A927	G865	G733	C	G620		A491	U406	A320	G270I
A1188	U1058	U930	A802	A929	U930	G866	A734	C	U621		A492	G406	A321	G270J
U1189	G1059	G931	U803	A930	G931	G867	G735	C	G622		A493	C409	A322	G270K
G1190	U1060	C932	A804	A931	C932	G868	C736	C	U623		A494	G410	A322	U270L
U1191	U1061	A933	G805	A932	A933	G869	C737	C	A627		A495	G411	A324	U270M
G1192	G1062	G934	C806	A933	G934	U871	G738	C	G630		A496	G412	A324	G270N
A1128	U1063	A871	U807	A934	A871	G872	G739	C	U631		A497	A412	A324	G270O
A1129	C	C935	G808	A935	C935	G873	U740	C	G632		A498	C413	A324	G270P
U1130	U1004	G873	G809	A936	U873	G874	G741	C	A633		A499	C414	A324	C270Q
G1131	U	U877	U810	A937	U877	C876	G742	C	U634		A503	C420	A324	G270R
U1198	C1006	C877	U811	A938	C877	A878	G743	C	G635		A504	A428	A324	G270S
U199	U	A878	C812	A939	A878	G879	G744	C	U636		A505	A428	A324	G270T
C1200	G1008	G879	U813	A940	G879	G880	G745	C	G637		A506	A428	A324	G270U
G1201	A1009	G880	C814	A941	G880	G881	A746	C	U638		A507	A428	A324	G270V
G1202	G1071	G	C815	A942	G	G	U747	C	U639		A508	A428	A324	G270W
G1203	C1072	G	G816	A943	G	G	G748	C	U640		A509	A428	A324	G270X
A1204	U1012	C	C817	A944	C	C	C749	C	U641		A510	A428	A324	G270Y
U1205	C1013	C	G818	A945	C	C	A750	C	U642		A511	A428	A324	
U1142	G1075	C	A819	A946	C	C	A751	C	U643		A512	A428	A324	
A1210	C1076	C	A820	A947	C	C	A752	C	U644		A513	A428	A324	
U1211	U1017	A	G823	A948	A	A	C763	C	U645		A514	A428	A324	
G1212	U	U	G824	A949	U	U	C764	C	U646		A515	A428	A324	
A1213	C	C	C825	A950	C	C		C	U647		A516	A428	A324	
A1214	A	A	U826	A951	A	A		A	U648		A517	A428	A324	
G1215	U	U	U827	A952	U	U		U	U649		A518	A428	A324	
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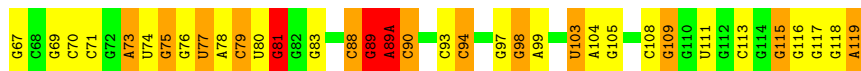


• Molecule 27: 5S rRNA

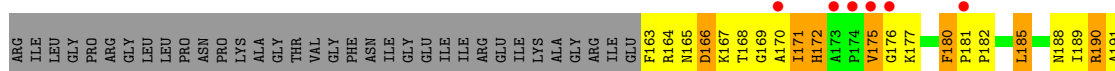
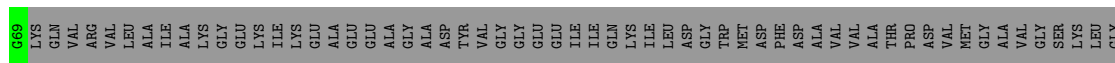
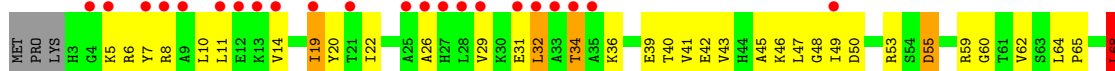
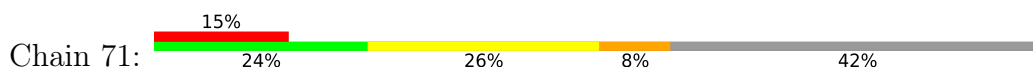


• Molecule 27: 5S rRNA

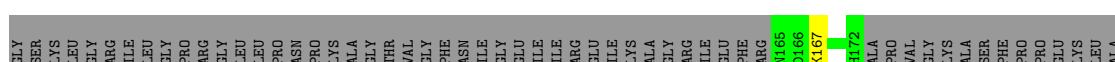
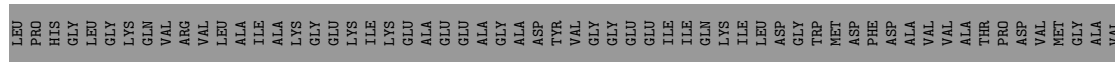
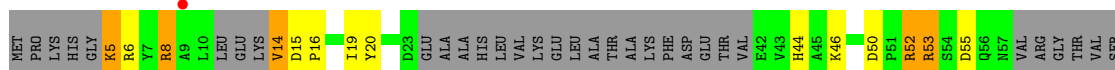




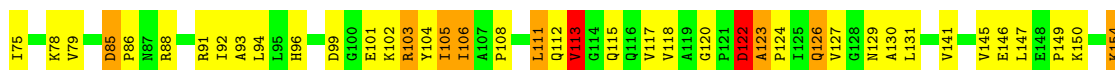
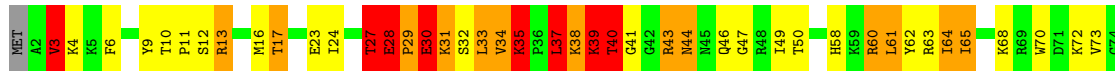
• Molecule 28: 50S ribosomal protein L1

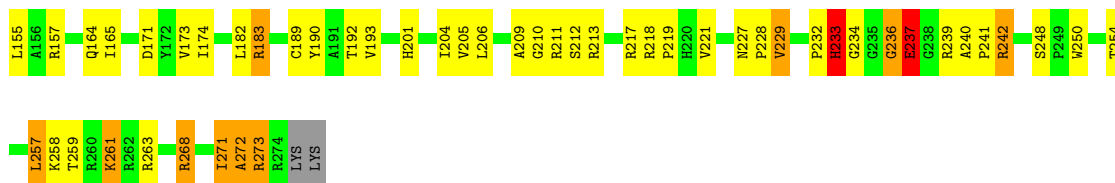


• Molecule 28: 50S ribosomal protein L1

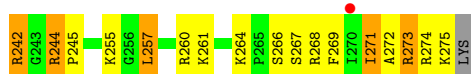
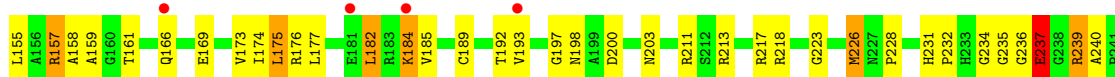
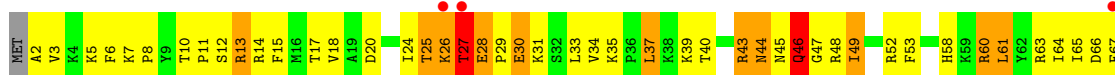


• Molecule 29: 50S ribosomal protein L2

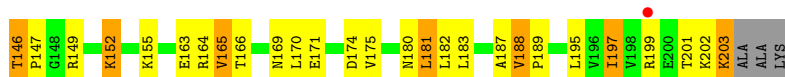
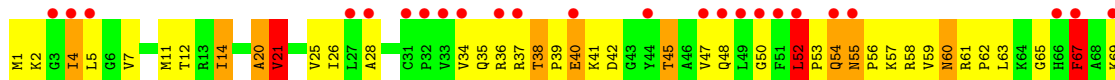




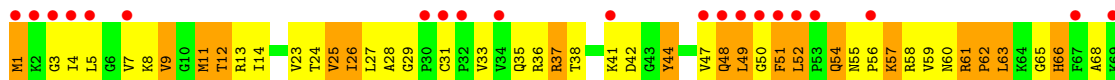
• Molecule 29: 50S ribosomal protein L2



• Molecule 30: 50S ribosomal protein L3

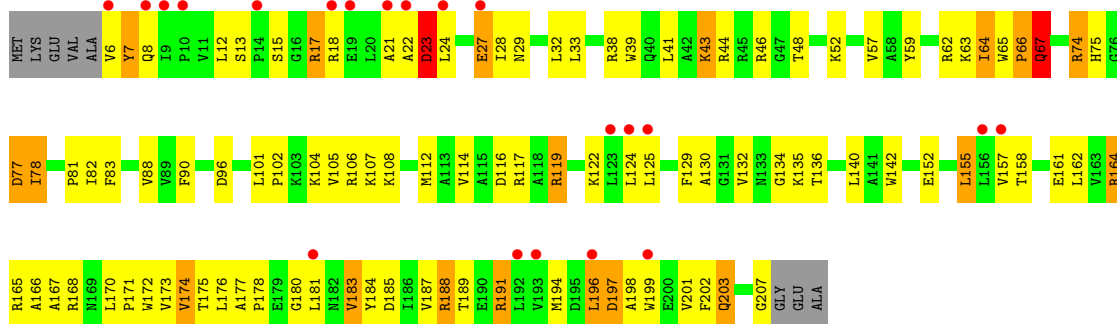


• Molecule 30: 50S ribosomal protein L3

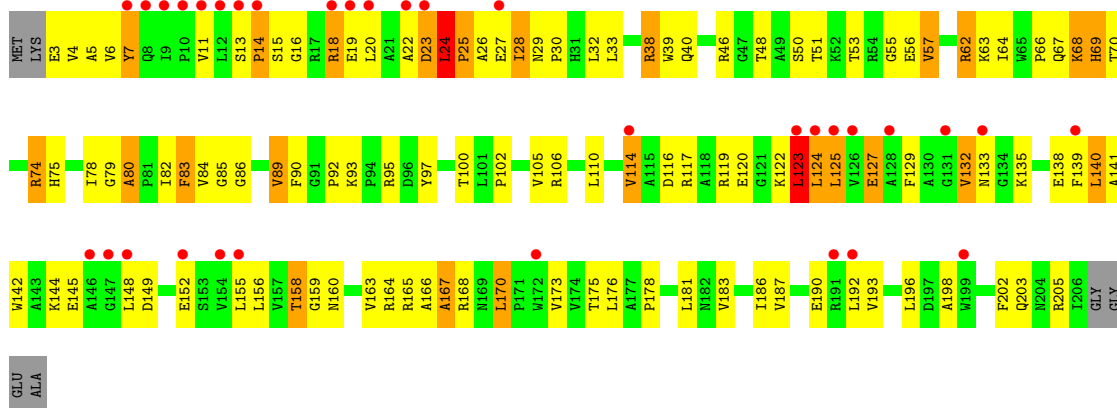
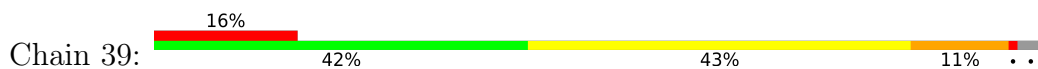




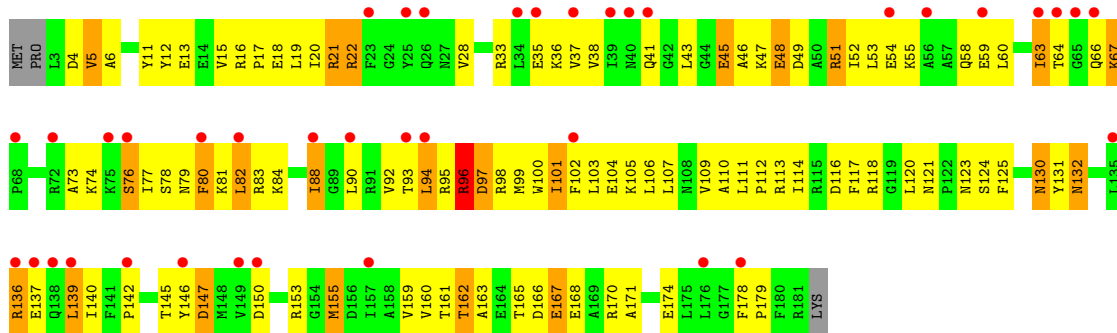
• Molecule 31: 50S ribosomal protein L4



• Molecule 31: 50S ribosomal protein L4

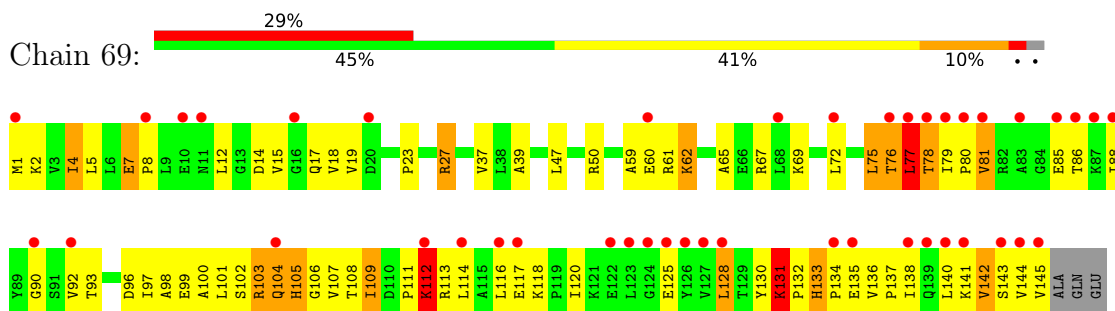


• Molecule 32: 50S ribosomal protein L5

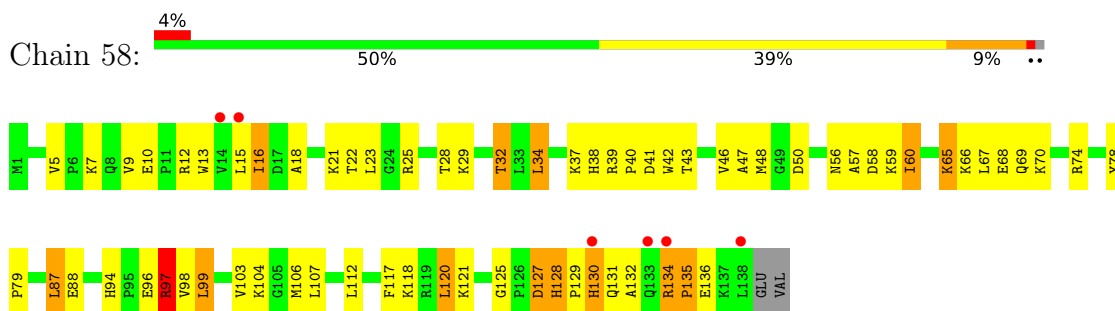


• Molecule 32: 50S ribosomal protein L5

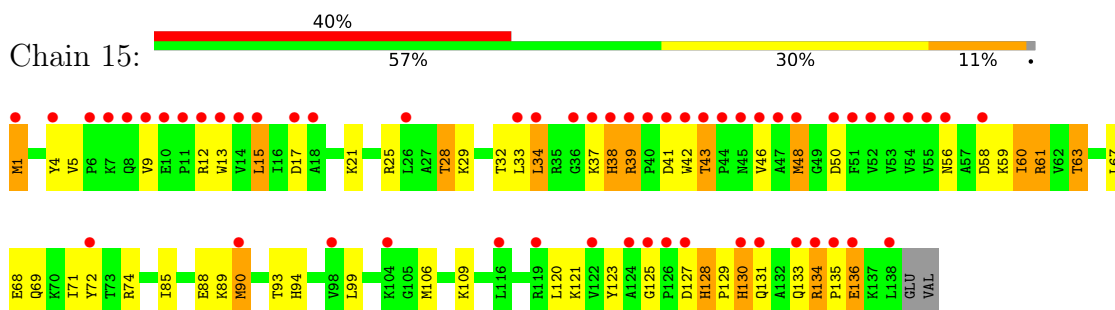
- Molecule 34: 50S ribosomal protein L9



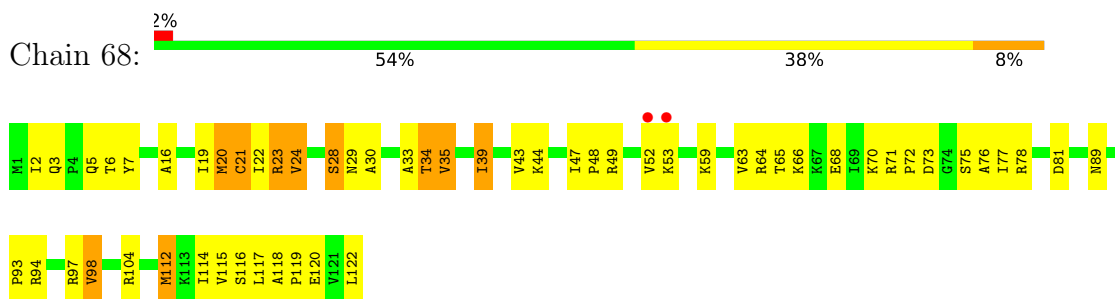
- Molecule 35: 50S ribosomal protein L13



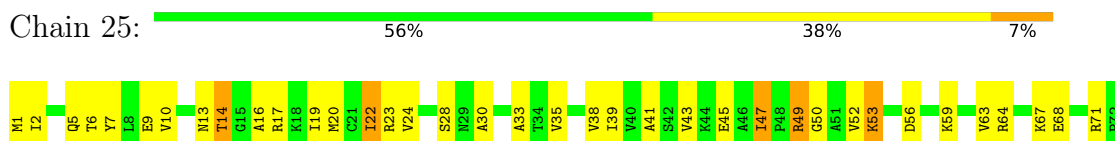
- Molecule 35: 50S ribosomal protein L13

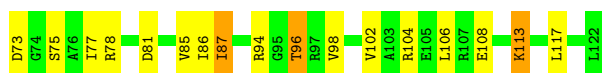


- Molecule 36: 50S ribosomal protein L14

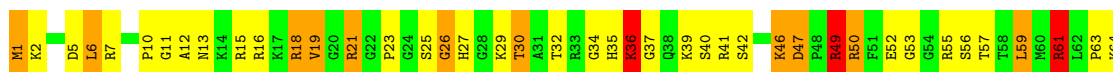


- Molecule 36: 50S ribosomal protein L14





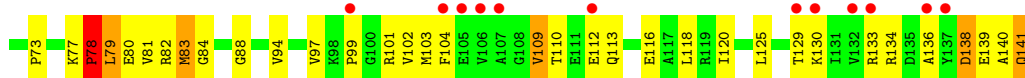
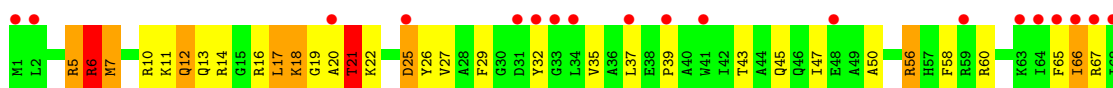
- Molecule 37: 50S ribosomal protein L15



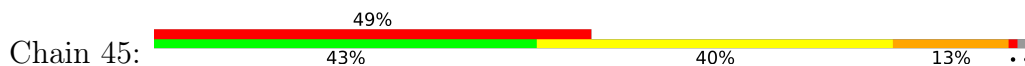
- Molecule 37: 50S ribosomal protein L15

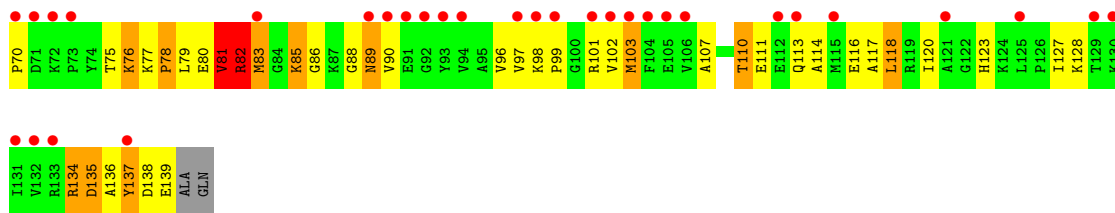


- Molecule 38: 50S ribosomal protein L16



- Molecule 38: 50S ribosomal protein L16

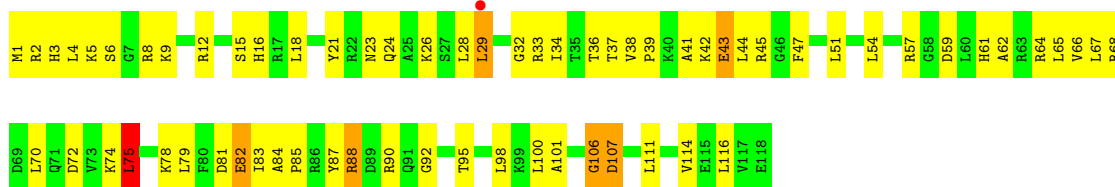




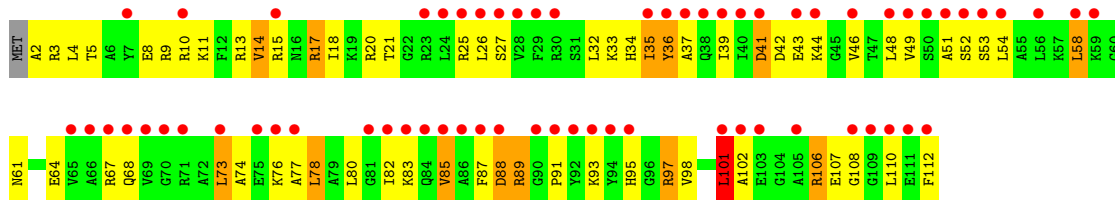
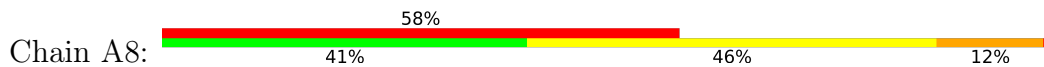
• Molecule 39: 50S ribosomal protein L17



• Molecule 39: 50S ribosomal protein L17



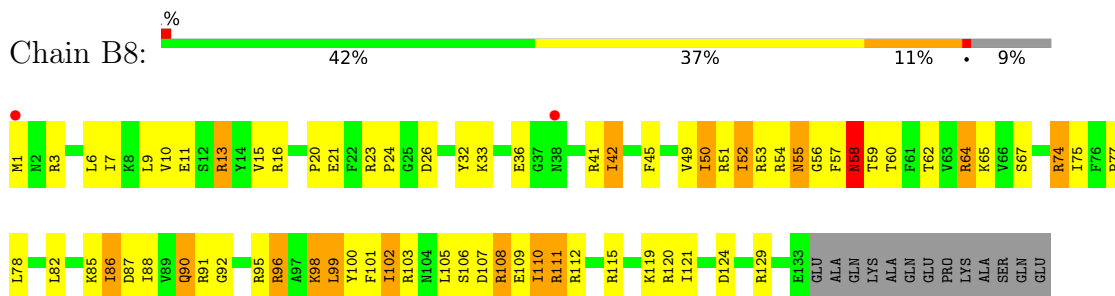
• Molecule 40: 50S ribosomal protein L18



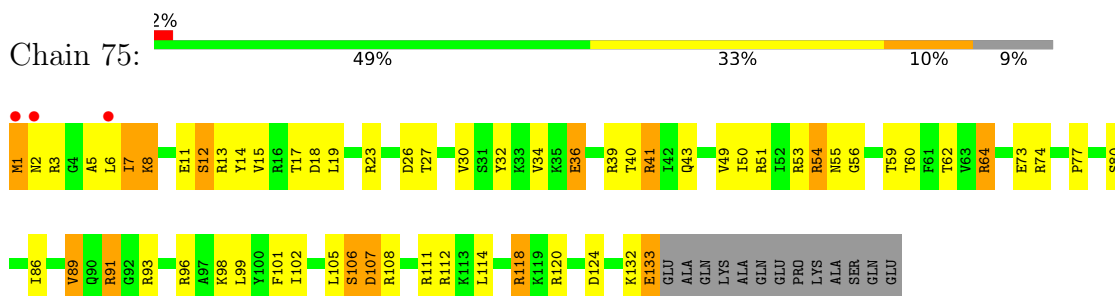
• Molecule 40: 50S ribosomal protein L18



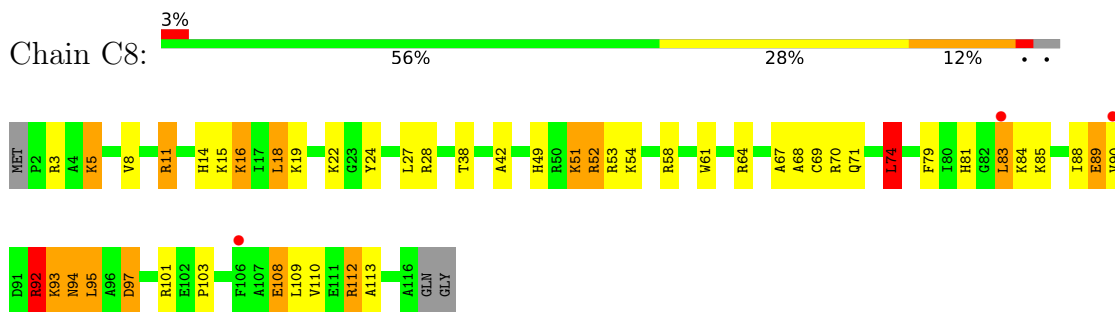
- Molecule 41: 50S ribosomal protein L19



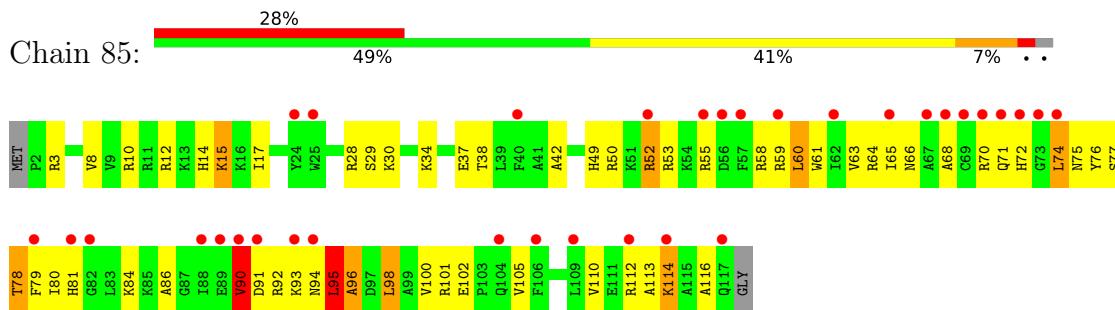
- Molecule 41: 50S ribosomal protein L19



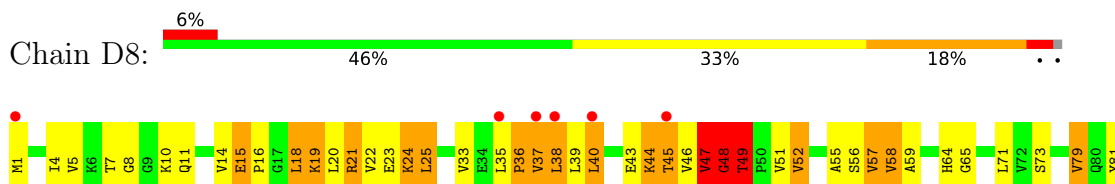
- Molecule 42: 50S ribosomal protein L20



- Molecule 42: 50S ribosomal protein L20

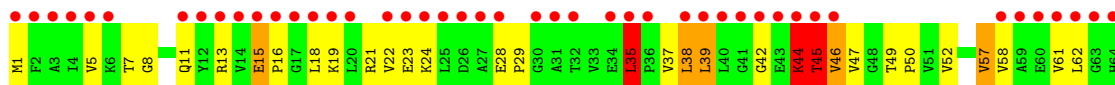
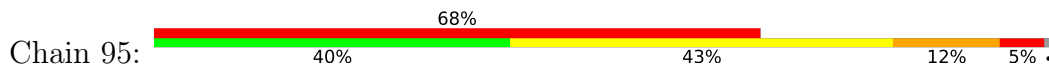


- Molecule 43: 50S ribosomal protein L21





- Molecule 43: 50S ribosomal protein L21



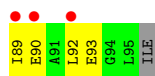
- Molecule 44: 50S ribosomal protein L22



- Molecule 44: 50S ribosomal protein L22

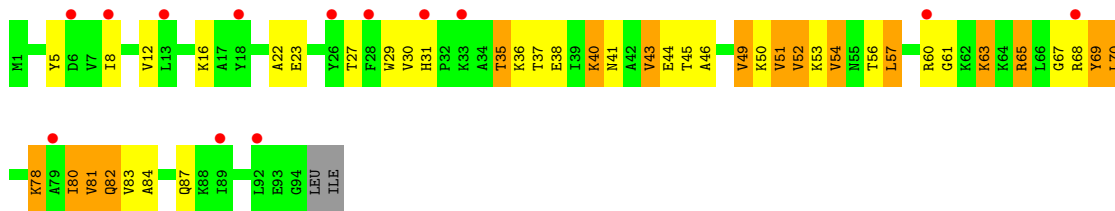


- Molecule 45: 50S ribosomal protein L23

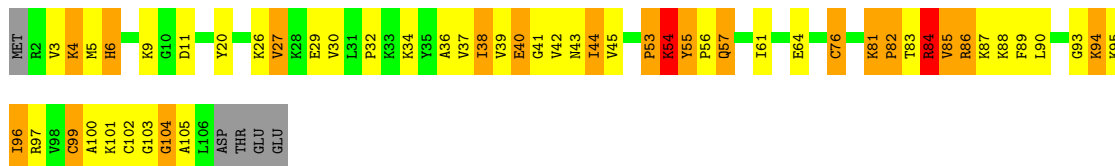


- Molecule 45: 50S ribosomal protein L23

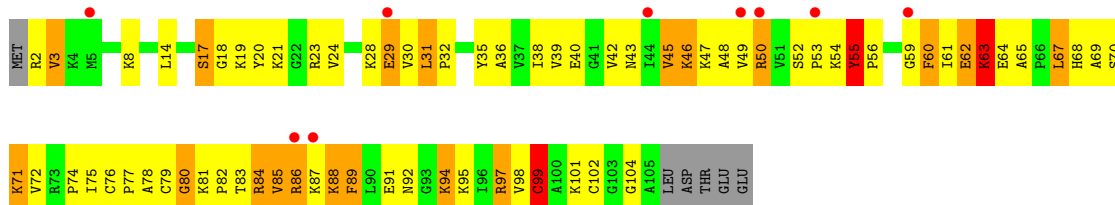




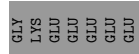
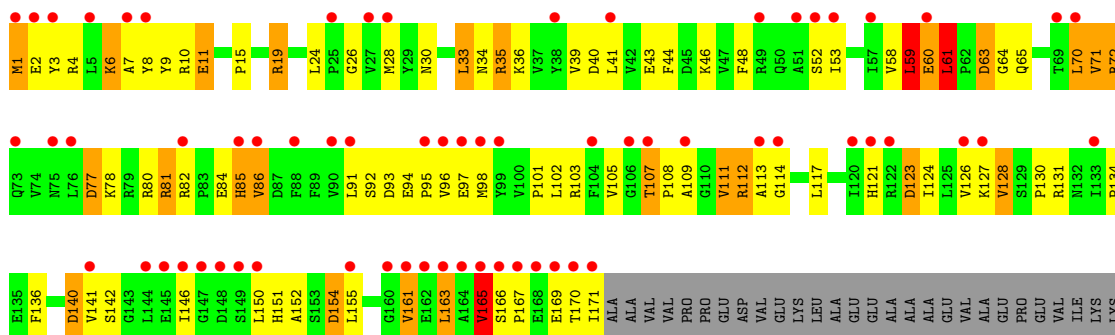
• Molecule 46: 50S ribosomal protein L24



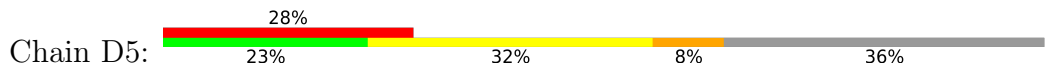
• Molecule 46: 50S ribosomal protein L24

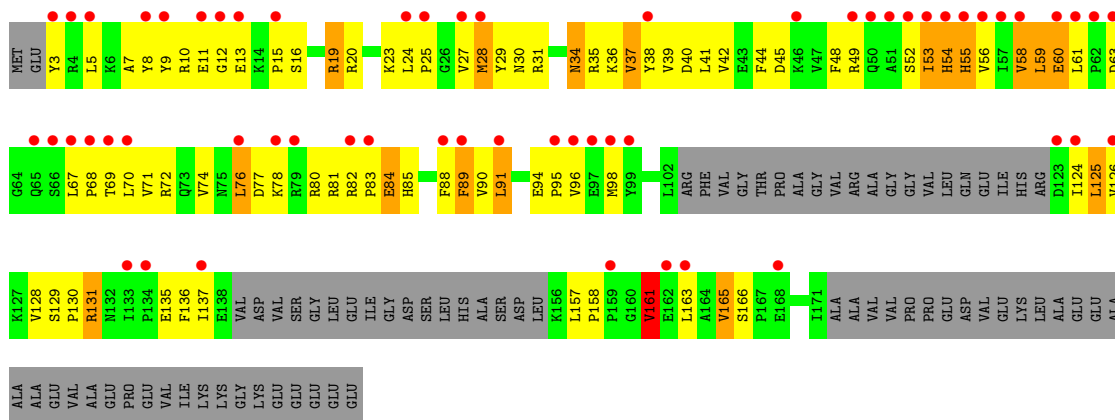


• Molecule 47: 50S ribosomal protein L25

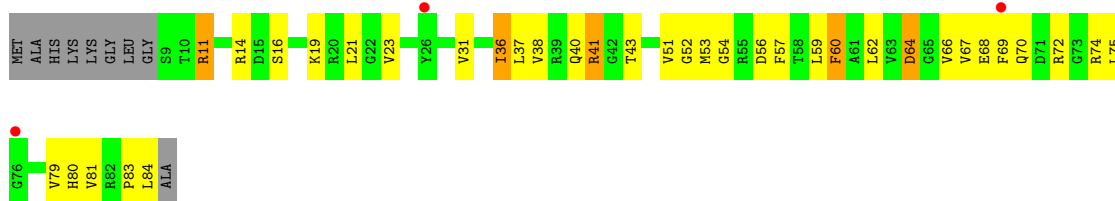


• Molecule 47: 50S ribosomal protein L25

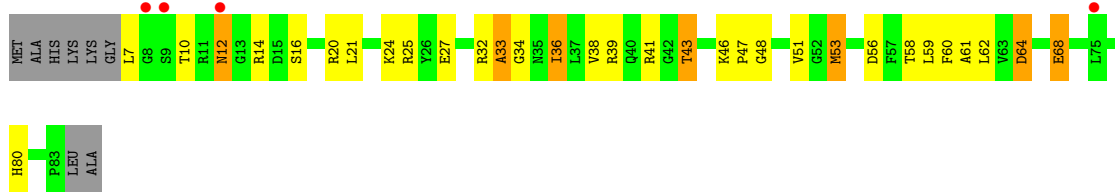




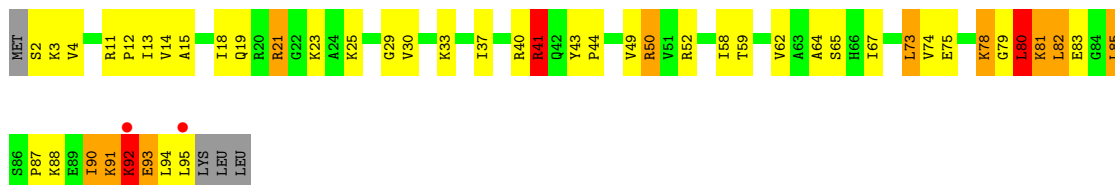
• Molecule 48: 50S ribosomal protein L27



• Molecule 48: 50S ribosomal protein L27

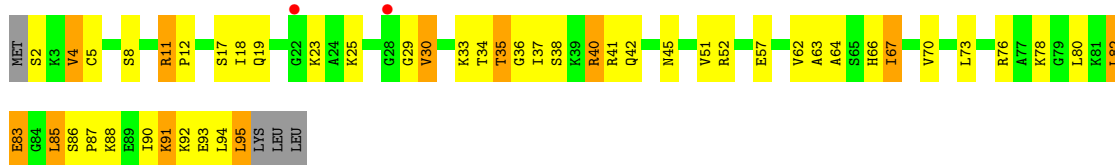


• Molecule 49: 50S ribosomal protein L28

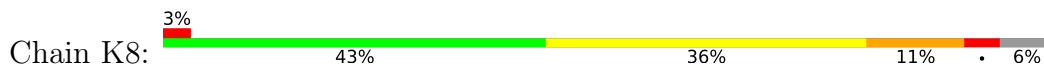


• Molecule 49: 50S ribosomal protein L28

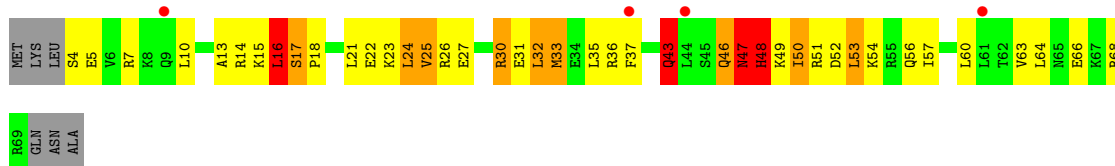




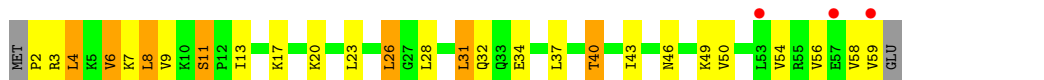
• Molecule 50: 50S ribosomal protein L29



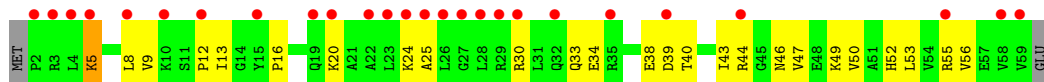
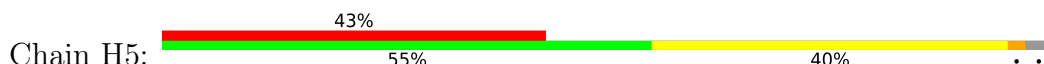
• Molecule 50: 50S ribosomal protein L29



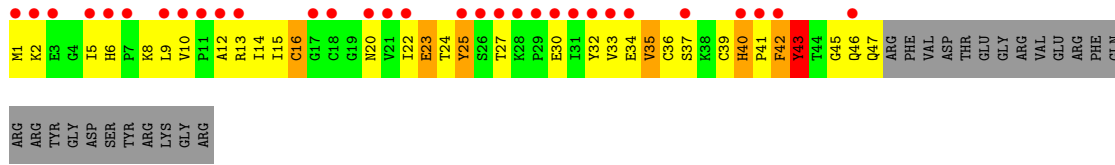
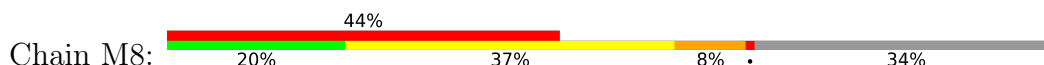
• Molecule 51: 50S ribosomal protein L30



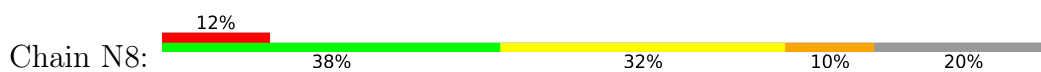
• Molecule 51: 50S ribosomal protein L30



• Molecule 52: 50S ribosomal protein L31



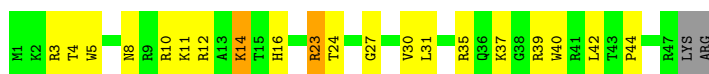
• Molecule 53: 50S ribosomal protein L32



- Molecule 53: 50S ribosomal protein L32



- Molecule 54: 50S ribosomal protein L34



- Molecule 54: 50S ribosomal protein L34



- Molecule 55: 50S ribosomal protein L35

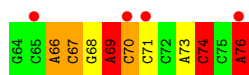


- Molecule 55: 50S ribosomal protein L35



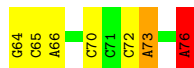
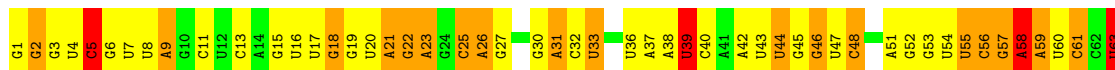
- Molecule 56: tRNA^{Lys}





● Molecule 57: tRNA^{Lys}

Chain 3L: 24% 45% 25% 7%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.50Å 450.10Å 621.60Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	173.72 – 3.20 173.72 – 3.20	Depositor EDS
% Data completeness (in resolution range)	100.0 (173.72-3.20) 93.8 (173.72-3.20)	Depositor EDS
R_{merge}	0.38	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.81 (at 3.19Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.191 , 0.258 0.192 , 0.258	Depositor DCC
R_{free} test set	2000 reflections (0.21%)	wwPDB-VP
Wilson B-factor (Å ²)	92.5	Xtrriage
Anisotropy	0.339	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 77.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	294444	wwPDB-VP
Average B, all atoms (Å ²)	107.0	wwPDB-VP

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

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	0.75	5/35994 (0.0%)	1.39	368/56171 (0.7%)
1	1G	0.64	1/36258 (0.0%)	1.26	191/56589 (0.3%)
2	12	0.44	0/1752	0.74	1/2360 (0.0%)
2	1E	0.46	0/1908	0.74	4/2573 (0.2%)
3	22	0.40	0/1564	0.64	1/2109 (0.0%)
3	2E	0.49	0/1629	0.67	0/2195
4	32	0.48	0/1732	0.74	1/2318 (0.0%)
4	3E	0.52	0/1728	0.74	1/2313 (0.0%)
5	42	0.45	0/1150	0.69	0/1548
5	4E	0.53	0/1158	0.71	0/1559
6	52	0.51	0/855	0.68	0/1154
6	5E	0.57	0/850	0.72	0/1147
7	62	0.43	0/1122	0.65	0/1500
7	6E	0.43	0/1259	0.59	0/1686
8	72	0.41	0/1127	0.65	0/1517
8	7E	0.47	0/1135	0.74	1/1527 (0.1%)
9	82	0.42	0/971	0.71	0/1304
9	8E	0.44	0/1019	0.66	0/1367
10	1A	0.42	0/658	0.60	0/885
10	1I	0.51	0/747	0.75	1/1006 (0.1%)
11	2A	0.45	0/850	0.63	0/1150
11	2I	0.49	0/838	0.69	0/1133
12	3A	0.55	0/972	0.83	2/1301 (0.2%)
12	3I	0.72	0/972	0.87	0/1301
13	4A	0.42	0/903	0.72	1/1211 (0.1%)
13	4I	0.53	0/952	0.73	0/1277
14	5A	0.47	0/495	0.72	1/657 (0.2%)
14	5I	0.62	0/500	0.75	0/664
15	6A	0.44	0/744	0.59	0/992
15	6I	0.52	0/740	0.71	0/987
16	7A	0.49	0/721	0.74	0/970
16	7I	0.47	0/716	0.73	0/963

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	8A	0.45	0/836	0.64	0/1117
17	8I	0.52	0/847	0.70	0/1131
18	9A	0.46	0/549	0.70	0/732
18	9I	0.53	0/554	0.77	0/739
19	AA	0.44	0/490	0.70	0/662
19	AI	0.53	0/668	0.79	0/899
20	BA	0.43	0/764	0.73	0/1007
20	BI	0.43	0/748	0.65	1/986 (0.1%)
21	1B	0.47	0/192	0.70	0/252
21	1F	0.52	0/203	0.68	0/266
22	1K	0.66	0/1565	1.29	14/2429 (0.6%)
23	2K	0.84	1/1721 (0.1%)	1.50	32/2682 (1.2%)
23	2L	0.66	1/1721 (0.1%)	1.24	10/2682 (0.4%)
24	3K	0.67	0/1799	1.31	17/2801 (0.6%)
25	4K	0.91	0/473	1.34	1/737 (0.1%)
25	4L	0.67	0/448	1.13	0/698
26	14	0.90	57/69023 (0.1%)	1.59	1407/107740 (1.3%)
26	1H	1.06	113/68351 (0.2%)	1.80	2304/106700 (2.2%)
27	16	0.84	0/2928	1.55	47/4568 (1.0%)
27	1J	0.70	0/2928	1.36	28/4568 (0.6%)
28	71	0.46	0/1055	0.72	1/1425 (0.1%)
28	79	0.43	0/459	0.90	3/608 (0.5%)
29	11	0.82	2/2170 (0.1%)	1.01	7/2926 (0.2%)
29	19	0.71	1/2175 (0.0%)	0.93	3/2933 (0.1%)
30	21	0.67	0/1591	0.96	2/2146 (0.1%)
30	29	0.63	0/1596	0.92	2/2153 (0.1%)
31	31	0.73	1/1620 (0.1%)	0.91	1/2194 (0.0%)
31	39	0.62	0/1637	0.90	3/2218 (0.1%)
32	41	0.52	0/1481	0.78	1/1994 (0.1%)
32	49	0.43	0/1482	0.68	0/1994
33	51	0.68	0/1337	1.00	9/1809 (0.5%)
33	59	0.46	0/577	0.88	2/776 (0.3%)
34	61	0.52	0/1151	0.80	2/1558 (0.1%)
34	69	0.46	0/1146	0.77	3/1551 (0.2%)
35	15	0.46	0/1131	0.68	0/1525
35	58	0.60	0/1131	0.82	0/1525
36	25	0.58	0/942	0.74	0/1269
36	68	0.67	0/942	0.81	0/1269
37	35	0.61	0/1139	0.98	2/1514 (0.1%)
37	78	0.70	0/1139	1.12	8/1514 (0.5%)
38	45	0.69	0/1120	0.97	4/1498 (0.3%)
38	88	0.78	0/1134	0.98	2/1519 (0.1%)
39	55	0.64	0/981	0.85	1/1312 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	98	0.56	0/981	0.85	1/1312 (0.1%)
40	65	0.51	0/886	0.86	3/1180 (0.3%)
40	A8	0.63	0/891	0.85	1/1187 (0.1%)
41	75	0.56	0/1123	0.72	0/1500
41	B8	0.66	0/1123	0.82	0/1500
42	85	0.59	0/977	0.75	1/1301 (0.1%)
42	C8	0.67	0/968	0.82	1/1289 (0.1%)
43	95	0.70	0/785	0.87	1/1052 (0.1%)
43	D8	0.58	0/785	0.90	4/1052 (0.4%)
44	A5	0.62	0/910	0.84	1/1220 (0.1%)
44	E8	0.66	0/901	0.87	0/1209
45	B5	0.68	0/749	0.79	0/1007
45	F8	0.76	0/757	0.87	0/1017
46	C5	0.63	0/807	0.93	2/1076 (0.2%)
46	G8	0.82	1/809 (0.1%)	1.08	4/1080 (0.4%)
47	D5	0.51	0/1098	0.73	0/1487
47	H8	0.53	0/1403	0.81	1/1901 (0.1%)
48	E5	0.57	0/616	0.84	0/821
48	I8	0.76	0/614	0.94	0/819
49	F5	0.66	0/744	0.88	1/989 (0.1%)
49	J8	0.73	0/744	0.93	4/989 (0.4%)
50	G5	0.59	0/560	0.82	2/741 (0.3%)
50	K8	0.72	0/570	0.97	0/755
51	H5	0.49	0/464	0.66	0/623
51	L8	0.63	0/464	0.84	0/623
52	M8	0.53	0/375	0.95	2/507 (0.4%)
53	J5	0.61	0/448	0.81	0/606
53	N8	0.69	1/381 (0.3%)	0.86	0/516
54	L5	0.69	0/409	0.89	0/540
54	P8	0.85	0/409	1.07	2/540 (0.4%)
55	M5	0.75	0/524	1.00	3/691 (0.4%)
55	Q8	0.79	0/524	1.17	4/691 (0.6%)
56	1L	0.61	1/1613 (0.1%)	1.18	11/2504 (0.4%)
57	3L	0.65	0/1733	1.28	14/2699 (0.5%)
All	All	0.81	185/317108 (0.1%)	1.41	4553/475084 (1.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	13	1	0

Continued on next page...

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	12	0	4
2	1E	0	4
3	22	0	2
4	32	0	1
4	3E	0	1
9	82	0	1
9	8E	0	1
10	1I	0	1
11	2A	0	1
11	2I	0	1
12	3I	0	1
13	4A	0	2
13	4I	0	3
14	5A	0	1
18	9I	0	1
19	AI	0	2
20	BA	0	2
28	71	0	3
29	11	0	4
29	19	0	4
30	21	0	5
30	29	0	5
31	31	0	4
31	39	0	7
32	41	0	1
32	49	0	1
33	51	0	6
34	61	0	4
34	69	0	2
37	35	0	3
37	78	0	5
38	45	0	6
38	88	0	1
39	55	0	1
39	98	0	1
40	65	0	1
41	75	0	1
41	B8	0	1
42	85	0	4
42	C8	0	2
43	95	0	2
43	D8	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
44	A5	0	2
45	B5	0	1
45	F8	0	2
46	C5	0	3
46	G8	0	7
47	D5	0	2
47	H8	0	4
49	J8	0	2
50	G5	0	4
50	K8	0	3
52	M8	0	2
55	M5	0	2
55	Q8	0	1
All	All	1	141

The worst 5 of 185 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	1H	774	A	N9-C4	-11.99	1.30	1.37
26	1H	2430	A	N9-C4	-11.47	1.30	1.37
26	1H	783	A	N3-C4	-11.40	1.28	1.34
26	14	2430	A	N9-C4	-10.71	1.31	1.37
26	14	528	A	N9-C4	-10.24	1.31	1.37

The worst 5 of 4553 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	1H	1899	G	N3-C4-N9	-19.34	114.40	126.00
26	1H	783	A	C8-N9-C4	-17.08	98.97	105.80
26	14	2518	A	N1-C6-N6	17.07	128.84	118.60
26	1H	676	A	C2-N3-C4	-16.88	102.16	110.60
26	14	774	A	C2-N3-C4	-16.75	102.23	110.60

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	13	792	A	C1'

5 of 141 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1E	12	GLU	Peptide

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Mol	Chain	Res	Type	Group
2	1E	15	VAL	Peptide
2	1E	169	LYS	Peptide
2	1E	9	GLU	Peptide
4	3E	193	ASP	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	13	32157	0	16233	755	0
1	1G	32391	0	16353	749	0
2	12	1721	0	1758	101	0
2	1E	1874	0	1926	103	0
3	22	1541	0	1606	69	0
3	2E	1605	0	1668	58	0
4	32	1702	0	1765	110	0
4	3E	1698	0	1761	83	0
5	42	1134	0	1200	45	0
5	4E	1142	0	1204	62	0
6	52	842	0	857	30	0
6	5E	837	0	852	35	0
7	62	1110	0	1163	49	0
7	6E	1242	0	1286	44	0
8	72	1107	0	1165	39	0
8	7E	1115	0	1177	58	0
9	82	953	0	983	70	0
9	8E	1000	0	1031	58	0
10	1A	646	0	662	33	0
10	1I	734	0	761	43	0
11	2A	835	0	847	31	0
11	2I	823	0	833	49	0
12	3A	956	0	1046	56	0
12	3I	956	0	1046	33	0
13	4A	893	0	946	61	0
13	4I	942	0	997	53	0
14	5A	486	0	525	25	0
14	5I	491	0	529	26	0
15	6A	733	0	771	34	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	6I	729	0	768	29	0
16	7A	705	0	725	29	0
16	7I	700	0	720	47	0
17	8A	823	0	891	35	0
17	8I	834	0	904	42	0
18	9A	544	0	605	26	0
18	9I	549	0	607	36	0
19	AA	481	0	468	32	0
19	AI	654	0	675	44	0
20	BA	762	0	861	32	0
20	BI	746	0	843	49	0
21	1B	188	0	195	13	0
21	1F	199	0	208	5	0
22	1K	1520	0	778	41	0
23	2K	1646	0	843	30	0
23	2L	1646	0	843	40	0
24	3K	1611	0	817	48	0
25	4K	419	0	208	6	0
25	4L	397	0	197	12	0
26	14	61630	0	31073	1315	0
26	1H	61028	0	30763	1351	0
27	16	2617	0	1328	55	0
27	1J	2617	0	1328	65	0
28	71	1033	0	1048	77	0
28	79	456	0	460	22	0
29	11	2120	0	2197	131	0
29	19	2125	0	2199	104	0
30	21	1558	0	1624	83	0
30	29	1563	0	1629	117	0
31	31	1585	0	1632	89	0
31	39	1602	0	1649	80	0
32	41	1457	0	1514	94	0
32	49	1458	0	1516	59	0
33	51	1312	0	1384	66	0
33	59	568	0	595	48	0
34	61	1136	0	1223	57	0
34	69	1131	0	1218	48	0
35	15	1104	0	1180	38	0
35	58	1104	0	1180	54	0
36	25	932	0	996	36	0
36	68	932	0	996	42	0
37	35	1122	0	1206	77	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
37	78	1122	0	1206	94	0
38	45	1099	0	1154	79	0
38	88	1113	0	1157	51	0
39	55	967	0	1033	49	0
39	98	967	0	1033	49	0
40	65	876	0	938	65	0
40	A8	881	0	943	52	0
41	75	1109	0	1170	55	0
41	B8	1109	0	1170	60	0
42	85	959	0	1019	53	0
42	C8	950	0	1011	52	0
43	95	774	0	849	63	0
43	D8	774	0	849	43	0
44	A5	899	0	964	28	0
44	E8	890	0	951	25	0
45	B5	735	0	785	35	0
45	F8	743	0	794	36	0
46	C5	794	0	886	68	0
46	G8	796	0	886	45	0
47	D5	1074	0	1086	53	0
47	H8	1373	0	1402	59	0
48	E5	608	0	622	26	0
48	I8	606	0	625	30	0
49	F5	737	0	813	32	0
49	J8	737	0	813	39	0
50	G5	558	0	610	33	0
50	K8	568	0	614	36	0
51	H5	459	0	512	10	0
51	L8	459	0	512	18	0
52	M8	366	0	370	37	0
53	J5	434	0	454	22	0
53	N8	369	0	388	22	0
54	L5	401	0	436	14	0
54	P8	401	0	436	14	0
55	M5	516	0	582	28	0
55	Q8	516	0	582	34	0
56	1L	1563	0	799	42	0
57	3L	1612	0	819	41	0
58	13	132	0	0	0	0
58	14	399	0	0	0	0
58	16	9	0	0	0	0
58	1E	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	1G	90	0	0	0	0
58	1H	467	0	0	0	0
58	1J	5	0	0	0	0
58	1K	1	0	0	0	0
58	2I	2	0	0	0	0
58	25	1	0	0	0	0
58	29	4	0	0	0	0
58	2K	3	0	0	0	0
58	2L	2	0	0	0	0
58	35	3	0	0	0	0
58	39	1	0	0	0	0
58	3K	1	0	0	0	0
58	4I	1	0	0	0	0
58	45	2	0	0	0	0
58	55	1	0	0	0	0
58	5E	1	0	0	0	0
58	6A	1	0	0	0	0
58	78	1	0	0	0	0
58	88	1	0	0	0	0
58	98	1	0	0	0	0
58	E5	1	0	0	0	0
58	I8	3	0	0	0	0
58	J8	1	0	0	0	0
58	L8	1	0	0	0	0
58	P8	1	0	0	0	0
58	Q8	1	0	0	0	0
59	32	8	0	0	2	0
59	3E	8	0	0	1	0
60	5A	1	0	0	0	0
60	5I	1	0	0	0	0
60	C5	1	0	0	0	0
60	G8	1	0	0	0	0
61	1I	7	0	0	5	0
61	13	126	0	0	21	0
61	14	417	0	0	73	0
61	16	29	0	0	6	0
61	19	8	0	0	1	0
61	1G	78	0	0	9	0
61	1H	629	0	0	101	0
61	1J	6	0	0	1	0
61	1K	8	0	0	0	0
61	2I	4	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	29	2	0	0	0	0
61	31	9	0	0	0	0
61	32	1	0	0	0	0
61	35	1	0	0	0	0
61	39	5	0	0	0	0
61	3I	2	0	0	0	0
61	3K	1	0	0	0	0
61	4K	2	0	0	0	0
61	55	1	0	0	0	0
61	58	2	0	0	0	0
61	5A	2	0	0	0	0
61	5I	2	0	0	0	0
61	78	7	0	0	2	0
61	88	1	0	0	0	0
61	A5	1	0	0	0	0
61	B8	1	0	0	0	0
61	E8	2	0	0	0	0
61	F8	1	0	0	0	0
61	G8	1	0	0	0	0
61	H5	2	0	0	1	0
61	I8	3	0	0	1	0
61	L8	2	0	0	1	0
All	All	294444	0	196318	8229	0

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

The worst 5 of 8229 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)
46:G8:100:ALA:HB1	46:G8:101:LYS:HG2	1.34	1.09
55:M5:48:PHE:HB2	55:M5:49:VAL:HG22	1.31	1.07
26:14:161:U:H5'	26:14:171:G:H21	1.18	1.06
26:1H:2711:A:OP2	61:1H:3501:HOH:O	1.73	1.05
26:14:2002:G:N7	61:14:3505:HOH:O	1.91	1.03

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	12	206/256 (80%)	168 (82%)	31 (15%)	7 (3%)	3	24
2	1E	227/256 (89%)	185 (82%)	39 (17%)	3 (1%)	12	47
3	22	192/239 (80%)	169 (88%)	22 (12%)	1 (0%)	29	67
3	2E	203/239 (85%)	185 (91%)	18 (9%)	0	100	100
4	32	206/209 (99%)	183 (89%)	22 (11%)	1 (0%)	29	67
4	3E	205/209 (98%)	188 (92%)	14 (7%)	3 (2%)	10	44
5	42	146/162 (90%)	136 (93%)	9 (6%)	1 (1%)	22	61
5	4E	147/162 (91%)	139 (95%)	7 (5%)	1 (1%)	22	61
6	52	99/101 (98%)	95 (96%)	4 (4%)	0	100	100
6	5E	98/101 (97%)	91 (93%)	7 (7%)	0	100	100
7	62	134/156 (86%)	123 (92%)	10 (8%)	1 (1%)	22	61
7	6E	152/156 (97%)	144 (95%)	8 (5%)	0	100	100
8	72	135/138 (98%)	125 (93%)	9 (7%)	1 (1%)	22	61
8	7E	136/138 (99%)	126 (93%)	9 (7%)	1 (1%)	22	61
9	82	119/128 (93%)	107 (90%)	11 (9%)	1 (1%)	19	58
9	8E	124/128 (97%)	104 (84%)	19 (15%)	1 (1%)	19	58
10	1A	76/105 (72%)	70 (92%)	6 (8%)	0	100	100
10	1I	89/105 (85%)	83 (93%)	6 (7%)	0	100	100
11	2A	111/129 (86%)	102 (92%)	7 (6%)	2 (2%)	8	41
11	2I	109/129 (84%)	98 (90%)	10 (9%)	1 (1%)	17	56
12	3A	120/132 (91%)	102 (85%)	13 (11%)	5 (4%)	3	20
12	3I	120/132 (91%)	106 (88%)	13 (11%)	1 (1%)	19	58
13	4A	109/126 (86%)	95 (87%)	13 (12%)	1 (1%)	17	56
13	4I	117/126 (93%)	97 (83%)	19 (16%)	1 (1%)	17	56
14	5A	57/61 (93%)	48 (84%)	8 (14%)	1 (2%)	8	41

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	5I	58/61 (95%)	48 (83%)	8 (14%)	2 (3%)	3	24
15	6A	86/89 (97%)	76 (88%)	10 (12%)	0	100	100
15	6I	85/89 (96%)	80 (94%)	5 (6%)	0	100	100
16	7A	82/88 (93%)	74 (90%)	8 (10%)	0	100	100
16	7I	81/88 (92%)	78 (96%)	3 (4%)	0	100	100
17	8A	97/105 (92%)	90 (93%)	7 (7%)	0	100	100
17	8I	98/105 (93%)	91 (93%)	7 (7%)	0	100	100
18	9A	65/88 (74%)	62 (95%)	2 (3%)	1 (2%)	10	44
18	9I	66/88 (75%)	62 (94%)	3 (4%)	1 (2%)	10	44
19	AA	56/93 (60%)	49 (88%)	5 (9%)	2 (4%)	3	23
19	AI	79/93 (85%)	67 (85%)	10 (13%)	2 (2%)	5	32
20	BA	97/106 (92%)	80 (82%)	15 (16%)	2 (2%)	7	37
20	BI	95/106 (90%)	80 (84%)	15 (16%)	0	100	100
21	1B	20/27 (74%)	19 (95%)	1 (5%)	0	100	100
21	1F	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
28	7I	129/229 (56%)	119 (92%)	10 (8%)	0	100	100
28	79	45/229 (20%)	41 (91%)	4 (9%)	0	100	100
29	11	271/276 (98%)	243 (90%)	17 (6%)	11 (4%)	3	21
29	19	272/276 (99%)	241 (89%)	25 (9%)	6 (2%)	6	35
30	21	201/206 (98%)	157 (78%)	36 (18%)	8 (4%)	3	21
30	29	202/206 (98%)	157 (78%)	37 (18%)	8 (4%)	3	21
31	31	200/210 (95%)	175 (88%)	25 (12%)	0	100	100
31	39	202/210 (96%)	157 (78%)	36 (18%)	9 (4%)	2	18
32	41	177/182 (97%)	155 (88%)	19 (11%)	3 (2%)	9	42
32	49	177/182 (97%)	153 (86%)	22 (12%)	2 (1%)	14	51
33	51	169/180 (94%)	135 (80%)	24 (14%)	10 (6%)	1	12
33	59	67/180 (37%)	50 (75%)	14 (21%)	3 (4%)	2	18
34	61	144/148 (97%)	122 (85%)	20 (14%)	2 (1%)	11	46
34	69	143/148 (97%)	116 (81%)	26 (18%)	1 (1%)	22	61
35	15	136/140 (97%)	119 (88%)	16 (12%)	1 (1%)	22	61
35	58	136/140 (97%)	114 (84%)	19 (14%)	3 (2%)	6	35

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	25	120/122 (98%)	111 (92%)	9 (8%)	0	100	100
36	68	120/122 (98%)	113 (94%)	7 (6%)	0	100	100
37	35	145/150 (97%)	114 (79%)	29 (20%)	2 (1%)	11	46
37	78	145/150 (97%)	115 (79%)	25 (17%)	5 (3%)	3	24
38	45	136/141 (96%)	112 (82%)	21 (15%)	3 (2%)	6	35
38	88	139/141 (99%)	114 (82%)	20 (14%)	5 (4%)	3	23
39	55	116/118 (98%)	109 (94%)	6 (5%)	1 (1%)	17	56
39	98	116/118 (98%)	101 (87%)	14 (12%)	1 (1%)	17	56
40	65	108/112 (96%)	86 (80%)	20 (18%)	2 (2%)	8	39
40	A8	109/112 (97%)	92 (84%)	14 (13%)	3 (3%)	5	29
41	75	131/146 (90%)	119 (91%)	12 (9%)	0	100	100
41	B8	131/146 (90%)	119 (91%)	12 (9%)	0	100	100
42	85	114/118 (97%)	101 (89%)	11 (10%)	2 (2%)	8	41
42	C8	113/118 (96%)	104 (92%)	6 (5%)	3 (3%)	5	30
43	95	98/101 (97%)	77 (79%)	14 (14%)	7 (7%)	1	8
43	D8	98/101 (97%)	87 (89%)	6 (6%)	5 (5%)	2	15
44	A5	111/113 (98%)	106 (96%)	4 (4%)	1 (1%)	17	56
44	E8	110/113 (97%)	101 (92%)	9 (8%)	0	100	100
45	B5	92/96 (96%)	85 (92%)	4 (4%)	3 (3%)	4	25
45	F8	93/96 (97%)	85 (91%)	7 (8%)	1 (1%)	14	51
46	C5	102/110 (93%)	75 (74%)	17 (17%)	10 (10%)	0	3
46	G8	103/110 (94%)	86 (84%)	13 (13%)	4 (4%)	3	22
47	D5	126/206 (61%)	100 (79%)	21 (17%)	5 (4%)	3	21
47	H8	169/206 (82%)	136 (80%)	25 (15%)	8 (5%)	2	17
48	E5	75/85 (88%)	66 (88%)	8 (11%)	1 (1%)	12	47
48	I8	74/85 (87%)	68 (92%)	6 (8%)	0	100	100
49	F5	92/98 (94%)	85 (92%)	6 (6%)	1 (1%)	14	51
49	J8	92/98 (94%)	83 (90%)	8 (9%)	1 (1%)	14	51
50	G5	64/72 (89%)	59 (92%)	3 (5%)	2 (3%)	4	26
50	K8	66/72 (92%)	58 (88%)	5 (8%)	3 (4%)	2	18
51	H5	56/60 (93%)	53 (95%)	3 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
51	L8	56/60 (93%)	51 (91%)	5 (9%)	0	100	100
52	M8	45/71 (63%)	29 (64%)	15 (33%)	1 (2%)	6	35
53	J5	54/60 (90%)	50 (93%)	4 (7%)	0	100	100
53	N8	46/60 (77%)	43 (94%)	3 (6%)	0	100	100
54	L5	45/49 (92%)	43 (96%)	2 (4%)	0	100	100
54	P8	45/49 (92%)	39 (87%)	6 (13%)	0	100	100
55	M5	62/65 (95%)	52 (84%)	8 (13%)	2 (3%)	4	26
55	Q8	62/65 (95%)	50 (81%)	9 (14%)	3 (5%)	2	17
All	All	10973/12333 (89%)	9576 (87%)	1201 (11%)	196 (2%)	8	41

5 of 196 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
14	5I	13	THR
18	9I	22	VAL
29	11	28	GLU
29	11	40	THR
29	11	237	GLU

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	12	182/220 (83%)	154 (85%)	28 (15%)	2	13
2	1E	200/220 (91%)	143 (72%)	57 (28%)	0	1
3	22	154/188 (82%)	123 (80%)	31 (20%)	1	6
3	2E	159/188 (85%)	124 (78%)	35 (22%)	1	5
4	32	180/181 (99%)	143 (79%)	37 (21%)	1	6
4	3E	180/181 (99%)	137 (76%)	43 (24%)	0	3
5	42	114/123 (93%)	91 (80%)	23 (20%)	1	6
5	4E	115/123 (94%)	98 (85%)	17 (15%)	3	14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	52	90/90 (100%)	72 (80%)	18 (20%)	1	6
6	5E	90/90 (100%)	73 (81%)	17 (19%)	1	8
7	62	114/127 (90%)	95 (83%)	19 (17%)	2	10
7	6E	125/127 (98%)	101 (81%)	24 (19%)	1	8
8	72	118/119 (99%)	98 (83%)	20 (17%)	2	10
8	7E	119/119 (100%)	93 (78%)	26 (22%)	1	5
9	82	92/99 (93%)	71 (77%)	21 (23%)	1	4
9	8E	97/99 (98%)	77 (79%)	20 (21%)	1	6
10	1A	71/92 (77%)	51 (72%)	20 (28%)	0	1
10	1I	81/92 (88%)	65 (80%)	16 (20%)	1	7
11	2A	85/99 (86%)	70 (82%)	15 (18%)	2	9
11	2I	84/99 (85%)	61 (73%)	23 (27%)	0	1
12	3A	103/109 (94%)	81 (79%)	22 (21%)	1	5
12	3I	103/109 (94%)	87 (84%)	16 (16%)	2	12
13	4A	91/101 (90%)	70 (77%)	21 (23%)	1	3
13	4I	94/101 (93%)	75 (80%)	19 (20%)	1	6
14	5A	49/50 (98%)	41 (84%)	8 (16%)	2	11
14	5I	49/50 (98%)	38 (78%)	11 (22%)	1	4
15	6A	79/80 (99%)	67 (85%)	12 (15%)	3	13
15	6I	79/80 (99%)	62 (78%)	17 (22%)	1	5
16	7A	72/74 (97%)	52 (72%)	20 (28%)	0	1
16	7I	72/74 (97%)	51 (71%)	21 (29%)	0	1
17	8A	94/97 (97%)	79 (84%)	15 (16%)	2	11
17	8I	95/97 (98%)	79 (83%)	16 (17%)	2	10
18	9A	58/77 (75%)	42 (72%)	16 (28%)	0	1
18	9I	58/77 (75%)	44 (76%)	14 (24%)	0	3
19	AA	52/80 (65%)	40 (77%)	12 (23%)	1	3
19	AI	71/80 (89%)	58 (82%)	13 (18%)	1	8
20	BA	76/82 (93%)	63 (83%)	13 (17%)	2	10
20	BI	75/82 (92%)	59 (79%)	16 (21%)	1	5
21	1B	17/22 (77%)	16 (94%)	1 (6%)	19	54

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	1F	18/22 (82%)	17 (94%)	1 (6%)	21	57
28	71	109/181 (60%)	87 (80%)	22 (20%)	1	6
28	79	48/181 (26%)	38 (79%)	10 (21%)	1	6
29	11	214/218 (98%)	161 (75%)	53 (25%)	0	2
29	19	214/218 (98%)	169 (79%)	45 (21%)	1	6
30	21	165/166 (99%)	128 (78%)	37 (22%)	1	4
30	29	165/166 (99%)	126 (76%)	39 (24%)	1	3
31	31	161/166 (97%)	126 (78%)	35 (22%)	1	5
31	39	163/166 (98%)	130 (80%)	33 (20%)	1	6
32	41	153/156 (98%)	121 (79%)	32 (21%)	1	6
32	49	153/156 (98%)	125 (82%)	28 (18%)	1	8
33	51	142/148 (96%)	109 (77%)	33 (23%)	1	3
33	59	59/148 (40%)	50 (85%)	9 (15%)	2	13
34	61	122/124 (98%)	95 (78%)	27 (22%)	1	4
34	69	122/124 (98%)	88 (72%)	34 (28%)	0	1
35	15	117/119 (98%)	87 (74%)	30 (26%)	0	2
35	58	117/119 (98%)	90 (77%)	27 (23%)	1	3
36	25	100/100 (100%)	82 (82%)	18 (18%)	1	9
36	68	100/100 (100%)	85 (85%)	15 (15%)	3	14
37	35	114/116 (98%)	78 (68%)	36 (32%)	0	0
37	78	114/116 (98%)	80 (70%)	34 (30%)	0	1
38	45	109/111 (98%)	89 (82%)	20 (18%)	1	8
38	88	109/111 (98%)	87 (80%)	22 (20%)	1	6
39	55	101/101 (100%)	83 (82%)	18 (18%)	2	9
39	98	101/101 (100%)	76 (75%)	25 (25%)	0	2
40	65	87/88 (99%)	64 (74%)	23 (26%)	0	2
40	A8	87/88 (99%)	67 (77%)	20 (23%)	1	3
41	75	117/127 (92%)	91 (78%)	26 (22%)	1	4
41	B8	117/127 (92%)	87 (74%)	30 (26%)	0	2
42	85	93/94 (99%)	83 (89%)	10 (11%)	6	27
42	C8	92/94 (98%)	76 (83%)	16 (17%)	2	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
43	95	82/82 (100%)	61 (74%)	21 (26%)	0	2
43	D8	82/82 (100%)	59 (72%)	23 (28%)	0	1
44	A5	92/92 (100%)	73 (79%)	19 (21%)	1	6
44	E8	91/92 (99%)	65 (71%)	26 (29%)	0	1
45	B5	74/78 (95%)	52 (70%)	22 (30%)	0	1
45	F8	75/78 (96%)	64 (85%)	11 (15%)	3	14
46	C5	85/91 (93%)	60 (71%)	25 (29%)	0	1
46	G8	85/91 (93%)	70 (82%)	15 (18%)	2	9
47	D5	118/179 (66%)	93 (79%)	25 (21%)	1	5
47	H8	152/179 (85%)	113 (74%)	39 (26%)	0	2
48	E5	61/67 (91%)	53 (87%)	8 (13%)	4	19
48	I8	61/67 (91%)	51 (84%)	10 (16%)	2	11
49	F5	79/83 (95%)	61 (77%)	18 (23%)	1	4
49	J8	79/83 (95%)	60 (76%)	19 (24%)	0	3
50	G5	62/67 (92%)	47 (76%)	15 (24%)	0	2
50	K8	62/67 (92%)	44 (71%)	18 (29%)	0	1
51	H5	50/52 (96%)	40 (80%)	10 (20%)	1	6
51	L8	50/52 (96%)	38 (76%)	12 (24%)	0	3
52	M8	42/63 (67%)	31 (74%)	11 (26%)	0	2
53	J5	48/52 (92%)	39 (81%)	9 (19%)	1	8
53	N8	43/52 (83%)	34 (79%)	9 (21%)	1	6
54	L5	38/42 (90%)	33 (87%)	5 (13%)	4	19
54	P8	38/42 (90%)	34 (90%)	4 (10%)	7	28
55	M5	54/55 (98%)	44 (82%)	10 (18%)	1	8
55	Q8	54/55 (98%)	39 (72%)	15 (28%)	0	1
All	All	9277/10193 (91%)	7277 (78%)	2000 (22%)	1	5

5 of 2000 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
47	H8	2	GLU
40	65	89	ARG
4	32	152	SER

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Mol	Chain	Res	Type
40	65	4	LEU
46	C5	85	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 25 such sidechains are listed below:

Mol	Chain	Res	Type
10	1A	84	GLN
18	9A	36	ASN
44	A5	60	ASN
14	5A	49	HIS
19	AA	57	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1493/1522 (98%)	361 (24%)	29 (1%)
1	1G	1506/1522 (98%)	367 (24%)	27 (1%)
22	1K	67/75 (89%)	27 (40%)	2 (2%)
23	2K	76/77 (98%)	22 (28%)	1 (1%)
23	2L	76/77 (98%)	14 (18%)	2 (2%)
24	3K	75/76 (98%)	42 (56%)	4 (5%)
25	4K	18/27 (66%)	12 (66%)	2 (11%)
25	4L	17/27 (62%)	9 (52%)	0
26	14	2853/2917 (97%)	731 (25%)	38 (1%)
26	1H	2829/2917 (96%)	722 (25%)	50 (1%)
27	16	121/122 (99%)	24 (19%)	1 (0%)
27	1J	121/122 (99%)	35 (28%)	1 (0%)
56	1L	69/76 (90%)	27 (39%)	4 (5%)
57	3L	75/76 (98%)	35 (46%)	1 (1%)
All	All	9396/9633 (97%)	2428 (25%)	162 (1%)

5 of 2428 RNA backbone outliers are listed below:

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

5 of 162 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1G	1533	C
26	14	1558	A
56	1L	69	A
26	14	528	A
26	14	2275	C

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

23 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
57	PSU	3L	39	57	18,21,22	1.24	1 (5%)	22,30,33	1.46	4 (18%)
56	T6A	1L	37	56	27,34,35	2.48	6 (22%)	29,49,52	2.37	8 (27%)
57	5MU	3L	54	57	19,22,23	4.05	6 (31%)	28,32,35	2.95	10 (35%)
22	T6A	1K	37	22	27,34,35	2.37	7 (25%)	29,49,52	1.98	5 (17%)
56	U8U	1L	34	25,56	19,24,25	2.68	7 (36%)	23,34,37	0.94	1 (4%)
56	PSU	1L	55	56	18,21,22	1.09	1 (5%)	22,30,33	1.60	4 (18%)
22	PSU	1K	39	22	18,21,22	1.05	1 (5%)	22,30,33	1.63	4 (18%)
23	4SU	2K	8	23	18,21,22	1.82	4 (22%)	26,30,33	2.30	5 (19%)
23	5MU	2K	55	23	19,22,23	3.79	5 (26%)	28,32,35	3.53	9 (32%)
23	G7M	2L	47	23	20,26,27	4.82	5 (25%)	17,39,42	1.15	1 (5%)
56	PSU	1L	39	56	18,21,22	1.14	1 (5%)	22,30,33	1.57	3 (13%)
23	OMC	2L	33	23	19,22,23	1.71	3 (15%)	26,31,34	1.06	3 (11%)
57	PSU	3L	55	57	18,21,22	1.20	1 (5%)	22,30,33	1.73	5 (22%)
22	U8U	1K	34	22,25	19,24,25	2.42	6 (31%)	23,34,37	0.91	1 (4%)
23	PSU	2K	56	23	18,21,22	1.21	2 (11%)	22,30,33	1.91	3 (13%)
23	5MU	2L	55	23	19,22,23	3.80	5 (26%)	28,32,35	3.40	8 (28%)
22	5MU	1K	54	22	19,22,23	3.69	5 (26%)	28,32,35	3.13	6 (21%)
23	G7M	2K	47	23	20,26,27	4.75	6 (30%)	17,39,42	1.09	1 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
23	OMC	2K	33	23	19,22,23	1.72	4 (21%)	26,31,34	0.95	2 (7%)
56	5MU	1L	54	56	19,22,23	3.84	5 (26%)	28,32,35	3.25	8 (28%)
22	PSU	1K	55	22	18,21,22	1.08	1 (5%)	22,30,33	1.56	4 (18%)
23	PSU	2L	56	23	18,21,22	1.28	1 (5%)	22,30,33	1.73	4 (18%)
23	4SU	2L	8	23	18,21,22	1.76	3 (16%)	26,30,33	2.66	4 (15%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
57	PSU	3L	39	57	-	2/7/25/26	0/2/2/2
56	T6A	1L	37	56	-	5/19/41/42	0/3/3/3
57	5MU	3L	54	57	-	0/7/25/26	0/2/2/2
22	T6A	1K	37	22	-	4/19/41/42	0/3/3/3
56	U8U	1L	34	25,56	-	2/9/28/29	0/2/2/2
56	PSU	1L	55	56	-	2/7/25/26	0/2/2/2
22	PSU	1K	39	22	-	1/7/25/26	0/2/2/2
23	4SU	2K	8	23	-	0/7/25/26	0/2/2/2
23	5MU	2K	55	23	-	0/7/25/26	0/2/2/2
23	G7M	2L	47	23	-	2/3/25/26	0/3/3/3
56	PSU	1L	39	56	-	0/7/25/26	0/2/2/2
23	OMC	2L	33	23	-	0/9/27/28	0/2/2/2
57	PSU	3L	55	57	-	4/7/25/26	0/2/2/2
22	U8U	1K	34	22,25	-	2/9/28/29	0/2/2/2
23	PSU	2K	56	23	-	2/7/25/26	0/2/2/2
23	5MU	2L	55	23	-	0/7/25/26	0/2/2/2
22	5MU	1K	54	22	-	0/7/25/26	0/2/2/2
23	G7M	2K	47	23	-	3/3/25/26	0/3/3/3
23	OMC	2K	33	23	-	1/9/27/28	0/2/2/2
56	5MU	1L	54	56	-	0/7/25/26	0/2/2/2
22	PSU	1K	55	22	-	0/7/25/26	0/2/2/2
23	PSU	2L	56	23	-	0/7/25/26	0/2/2/2
23	4SU	2L	8	23	-	0/7/25/26	0/2/2/2

The worst 5 of 86 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	47	G7M	C8-N7	17.70	1.65	1.33
23	2K	47	G7M	C8-N7	17.48	1.65	1.33
57	3L	54	5MU	C2-N1	12.59	1.58	1.38
56	1L	54	5MU	C2-N1	12.47	1.58	1.38
23	2L	55	5MU	C2-N1	12.19	1.58	1.38

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	2K	55	5MU	C5-C4-N3	11.30	124.95	115.31
22	1K	54	5MU	C5-C4-N3	10.92	124.63	115.31
23	2L	55	5MU	C5-C4-N3	10.89	124.61	115.31
56	1L	54	5MU	C5-C4-N3	10.30	124.10	115.31
57	3L	54	5MU	C5-C4-N3	8.97	122.97	115.31

There are no chirality outliers.

5 of 30 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	1K	37	T6A	C13-C12-C14-O14
22	1K	37	T6A	C13-C12-C14-C15
56	1L	37	T6A	C13-C12-C14-C15
57	3L	55	PSU	C2'-C1'-C5-C4
56	1L	34	U8U	O4'-C4'-C5'-O5'

There are no ring outliers.

12 monomers are involved in 16 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
57	3L	39	PSU	1	0
56	1L	34	U8U	2	0
56	1L	55	PSU	1	0
23	2L	47	G7M	2	0
23	2L	33	OMC	1	0
57	3L	55	PSU	1	0
23	2K	56	PSU	1	0
23	2L	55	5MU	1	0
23	2K	47	G7M	1	0
23	2K	33	OMC	2	0
23	2L	56	PSU	1	0
23	2L	8	4SU	2	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1144 ligands modelled in this entry, 1142 are monoatomic - leaving 2 for Mogul analysis.

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

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

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

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
59	32	301	SF4	2	0
59	3E	301	SF4	1	0

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	13	1496/1522 (98%)	-0.66	1 (0%) 95 95	62, 109, 164, 193	0
1	1G	1507/1522 (99%)	-0.64	2 (0%) 95 95	80, 127, 170, 197	0
2	12	210/256 (82%)	0.46	23 (10%) 5 3	127, 152, 162, 177	0
2	1E	231/256 (90%)	0.62	29 (12%) 3 2	117, 141, 159, 166	0
3	22	196/239 (82%)	1.21	47 (23%) 0 0	129, 143, 156, 164	0
3	2E	205/239 (85%)	0.92	35 (17%) 1 1	94, 114, 136, 145	0
4	32	208/209 (99%)	1.20	45 (21%) 0 1	108, 128, 145, 152	0
4	3E	207/209 (99%)	0.82	27 (13%) 3 2	92, 114, 134, 139	0
5	42	148/162 (91%)	0.60	9 (6%) 21 12	114, 129, 143, 152	0
5	4E	149/162 (91%)	0.53	9 (6%) 21 12	89, 108, 124, 140	0
6	52	101/101 (100%)	1.28	21 (20%) 1 1	95, 111, 129, 137	0
6	5E	100/101 (99%)	0.77	11 (11%) 5 3	87, 107, 126, 136	0
7	62	138/156 (88%)	-0.42	0 100 100	121, 134, 144, 148	0
7	6E	154/156 (98%)	-0.23	2 (1%) 77 65	109, 125, 148, 166	0
8	72	137/138 (99%)	0.07	4 (2%) 51 36	111, 133, 142, 145	0
8	7E	138/138 (100%)	-0.05	1 (0%) 87 81	97, 117, 128, 138	0
9	82	121/128 (94%)	-0.34	2 (1%) 70 57	117, 149, 158, 163	0
9	8E	126/128 (98%)	-0.44	0 100 100	96, 135, 152, 157	0
10	1A	80/105 (76%)	0.04	2 (2%) 57 43	129, 146, 156, 161	0
10	1I	91/105 (86%)	0.47	7 (7%) 13 7	87, 128, 159, 165	0
11	2A	113/129 (87%)	0.76	13 (11%) 4 3	94, 117, 130, 138	0
11	2I	111/129 (86%)	0.35	5 (4%) 33 21	85, 113, 127, 142	0
12	3A	122/132 (92%)	1.10	28 (22%) 0 0	89, 107, 130, 146	0
12	3I	122/132 (92%)	1.08	16 (13%) 3 2	73, 82, 106, 137	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	4A	111/126 (88%)	0.72	11 (9%) 7 4	125, 145, 156, 160	0
13	4I	119/126 (94%)	0.18	4 (3%) 45 29	93, 123, 136, 147	0
14	5A	59/61 (96%)	1.75	22 (37%) 0 0	134, 143, 153, 154	0
14	5I	60/61 (98%)	-0.16	0 100 100	92, 103, 118, 131	0
15	6A	88/89 (98%)	0.30	2 (2%) 60 47	96, 119, 135, 139	0
15	6I	87/89 (97%)	-0.07	0 100 100	88, 104, 122, 127	0
16	7A	84/88 (95%)	0.19	2 (2%) 59 44	102, 117, 135, 152	0
16	7I	83/88 (94%)	0.53	7 (8%) 11 6	110, 119, 143, 150	0
17	8A	99/105 (94%)	0.19	3 (3%) 50 34	105, 120, 132, 133	0
17	8I	100/105 (95%)	0.32	1 (1%) 82 72	98, 114, 124, 126	0
18	9A	67/88 (76%)	1.36	22 (32%) 0 0	106, 121, 135, 142	0
18	9I	68/88 (77%)	1.17	17 (25%) 0 0	94, 109, 133, 136	0
19	AA	62/93 (66%)	1.29	14 (22%) 0 0	134, 149, 156, 158	0
19	AI	81/93 (87%)	0.54	6 (7%) 14 8	102, 122, 138, 151	0
20	BA	99/106 (93%)	-0.19	1 (1%) 82 72	100, 118, 141, 152	0
20	BI	97/106 (91%)	-0.10	1 (1%) 82 72	112, 125, 148, 157	0
21	1B	22/27 (81%)	1.15	5 (22%) 0 0	129, 137, 145, 148	0
21	1F	23/27 (85%)	-0.33	0 100 100	94, 112, 118, 122	0
22	1K	66/75 (88%)	0.07	1 (1%) 73 61	85, 153, 177, 183	0
23	2K	72/77 (93%)	-0.44	0 100 100	77, 104, 132, 146	0
23	2L	72/77 (93%)	-0.30	0 100 100	85, 122, 151, 162	0
24	3K	76/76 (100%)	-0.28	1 (1%) 77 65	79, 178, 191, 196	0
25	4K	19/27 (70%)	-0.20	1 (5%) 26 14	79, 152, 184, 184	0
25	4L	18/27 (66%)	0.10	0 100 100	101, 161, 187, 187	0
26	14	2861/2917 (98%)	-0.36	35 (1%) 79 67	55, 92, 180, 204	0
26	1H	2833/2917 (97%)	-0.42	13 (0%) 91 86	49, 79, 168, 203	0
27	16	122/122 (100%)	-0.12	1 (0%) 86 78	74, 98, 119, 179	0
27	1J	122/122 (100%)	-0.73	0 100 100	93, 125, 145, 177	0
28	71	133/229 (58%)	1.28	35 (26%) 0 0	143, 174, 185, 189	0
28	79	57/229 (24%)	-0.24	1 (1%) 68 55	140, 165, 176, 179	0
29	11	273/276 (98%)	-0.20	0 100 100	48, 71, 89, 113	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	19	274/276 (99%)	0.53	12 (4%) 34 21	58, 82, 101, 117	0
30	21	203/206 (98%)	0.81	35 (17%) 1 1	55, 93, 139, 153	0
30	29	204/206 (99%)	0.63	38 (18%) 1 1	60, 99, 134, 144	0
31	31	202/210 (96%)	0.39	21 (10%) 6 4	54, 84, 118, 142	0
31	39	204/210 (97%)	0.79	33 (16%) 1 1	62, 111, 151, 168	0
32	41	179/182 (98%)	1.18	39 (21%) 0 0	85, 107, 140, 156	0
32	49	179/182 (98%)	0.97	41 (22%) 0 0	122, 139, 155, 171	0
33	51	171/180 (95%)	0.46	9 (5%) 26 14	89, 110, 127, 139	0
33	59	73/180 (40%)	0.25	8 (10%) 5 3	136, 154, 165, 177	0
34	61	146/148 (98%)	1.08	35 (23%) 0 0	83, 130, 143, 150	0
34	69	145/148 (97%)	1.35	43 (29%) 0 0	93, 129, 147, 152	0
35	15	138/140 (98%)	1.92	56 (40%) 0 0	86, 114, 139, 155	0
35	58	138/140 (98%)	0.27	6 (4%) 35 22	68, 97, 130, 145	0
36	25	122/122 (100%)	0.04	0 100 100	77, 94, 114, 120	0
36	68	122/122 (100%)	0.03	2 (1%) 72 59	64, 81, 99, 104	0
37	35	147/150 (98%)	0.31	8 (5%) 25 14	65, 111, 138, 144	0
37	78	147/150 (98%)	0.05	3 (2%) 65 51	53, 88, 113, 120	0
38	45	138/141 (97%)	2.27	69 (50%) 0 0	78, 108, 128, 142	0
38	88	141/141 (100%)	1.23	31 (21%) 0 0	63, 83, 108, 129	0
39	55	118/118 (100%)	-0.03	1 (0%) 86 78	69, 86, 108, 127	0
39	98	118/118 (100%)	0.49	10 (8%) 10 6	67, 90, 109, 122	0
40	65	110/112 (98%)	0.34	5 (4%) 33 21	92, 117, 135, 142	0
40	A8	111/112 (99%)	2.42	65 (58%) 0 0	71, 93, 115, 123	0
41	75	133/146 (91%)	-0.35	3 (2%) 60 47	87, 101, 129, 141	0
41	B8	133/146 (91%)	-0.43	2 (1%) 73 61	78, 98, 133, 149	0
42	85	116/118 (98%)	1.37	33 (28%) 0 0	73, 100, 132, 138	0
42	C8	115/118 (97%)	-0.16	3 (2%) 56 40	59, 86, 114, 118	0
43	95	100/101 (99%)	2.98	69 (69%) 0 0	69, 121, 139, 153	0
43	D8	100/101 (99%)	0.14	6 (6%) 21 12	62, 106, 126, 144	0
44	A5	113/113 (100%)	0.01	2 (1%) 68 55	68, 82, 112, 158	0
44	E8	112/113 (99%)	0.36	5 (4%) 33 21	63, 79, 106, 147	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	B5	94/96 (97%)	0.94	13 (13%) 2 2	77, 91, 118, 128	0
45	F8	95/96 (98%)	0.67	10 (10%) 6 3	60, 76, 104, 118	0
46	C5	104/110 (94%)	0.44	9 (8%) 10 5	91, 122, 149, 154	0
46	G8	105/110 (95%)	-0.23	0 100 100	75, 101, 131, 139	0
47	D5	132/206 (64%)	1.81	58 (43%) 0 0	115, 135, 150, 158	0
47	H8	171/206 (83%)	1.74	66 (38%) 0 0	90, 122, 167, 172	0
48	E5	77/85 (90%)	0.12	4 (5%) 27 15	72, 94, 111, 131	0
48	I8	76/85 (89%)	0.49	3 (3%) 39 25	61, 75, 90, 102	0
49	F5	94/98 (95%)	0.15	2 (2%) 63 49	67, 88, 121, 136	0
49	J8	94/98 (95%)	0.10	2 (2%) 63 49	62, 77, 120, 122	0
50	G5	66/72 (91%)	0.52	4 (6%) 21 12	87, 108, 126, 145	0
50	K8	68/72 (94%)	0.15	2 (2%) 51 36	68, 84, 102, 124	0
51	H5	58/60 (96%)	1.89	26 (44%) 0 0	81, 106, 128, 135	0
51	L8	58/60 (96%)	0.37	3 (5%) 27 15	63, 85, 115, 127	0
52	M8	47/71 (66%)	2.74	31 (65%) 0 0	109, 143, 158, 163	0
53	J5	56/60 (93%)	-0.11	0 100 100	66, 86, 141, 148	0
53	N8	48/60 (80%)	0.41	7 (14%) 2 1	56, 84, 140, 142	0
54	L5	47/49 (95%)	0.14	2 (4%) 35 22	58, 66, 85, 91	0
54	P8	47/49 (95%)	-0.44	0 100 100	52, 57, 77, 88	0
55	M5	64/65 (98%)	0.14	0 100 100	76, 85, 101, 117	0
55	Q8	64/65 (98%)	0.15	0 100 100	61, 71, 88, 99	0
56	1L	68/76 (89%)	1.09	15 (22%) 0 0	118, 173, 181, 188	0
57	3L	73/76 (96%)	-0.60	0 100 100	87, 172, 185, 190	0
All	All	20602/21966 (93%)	0.11	1495 (7%) 15 9	48, 107, 162, 204	0

The worst 5 of 1495 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
26	14	2899	G	12.6
26	14	2901	C	10.8
26	14	2799	A	10.4
26	14	2902	C	9.9
43	95	45	THR	9.5

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	PSU	3L	55	20/21	0.83	0.08	166,169,175,175	0
57	5MU	3L	54	21/22	0.87	0.09	162,169,172,173	0
56	PSU	1L	55	20/21	0.87	0.30	134,150,156,159	0
56	PSU	1L	39	20/21	0.88	0.18	105,127,133,134	0
23	PSU	2L	56	20/21	0.88	0.12	116,129,133,137	0
22	PSU	1K	55	20/21	0.90	0.17	109,120,133,134	0
57	PSU	3L	39	20/21	0.91	0.13	153,162,166,168	0
23	4SU	2L	8	20/21	0.91	0.17	112,125,130,135	0
56	U8U	1L	34	23/24	0.91	0.18	110,126,134,138	0
23	4SU	2K	8	20/21	0.92	0.17	93,98,102,106	0
56	T6A	1L	37	32/33	0.93	0.18	102,120,127,130	0
23	G7M	2L	47	24/25	0.93	0.12	129,137,150,151	0
22	5MU	1K	54	21/22	0.94	0.22	114,122,134,142	0
23	G7M	2K	47	24/25	0.94	0.12	104,115,129,135	0
23	PSU	2K	56	20/21	0.94	0.14	104,113,121,127	0
23	5MU	2L	55	21/22	0.94	0.13	128,133,141,143	0
22	PSU	1K	39	20/21	0.95	0.15	79,98,105,108	0
56	5MU	1L	54	21/22	0.95	0.25	138,147,154,155	0
22	T6A	1K	37	32/33	0.96	0.16	76,86,103,106	0
23	OMC	2L	33	21/22	0.96	0.15	109,114,117,125	0
22	U8U	1K	34	23/24	0.96	0.15	78,88,93,105	0
23	5MU	2K	55	21/22	0.96	0.12	112,118,125,127	0
23	OMC	2K	33	21/22	0.97	0.14	82,87,92,96	0

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	13	1698	1/1	0.08	0.21	138,138,138,138	0
58	MG	13	1699	1/1	0.28	0.31	94,94,94,94	0
58	MG	14	3282	1/1	0.32	0.42	109,109,109,109	0
58	MG	14	3303	1/1	0.32	0.18	106,106,106,106	0
58	MG	13	1603	1/1	0.33	0.47	92,92,92,92	0
58	MG	1H	3016	1/1	0.34	0.56	75,75,75,75	0
58	MG	1H	3297	1/1	0.39	0.24	99,99,99,99	0
58	MG	14	3258	1/1	0.41	0.38	92,92,92,92	0
58	MG	14	3311	1/1	0.42	0.36	100,100,100,100	0
58	MG	1H	3219	1/1	0.43	0.37	103,103,103,103	0
58	MG	1G	1638	1/1	0.44	0.30	93,93,93,93	0
58	MG	14	3108	1/1	0.46	0.73	92,92,92,92	0
58	MG	1H	3283	1/1	0.48	0.24	92,92,92,92	0
58	MG	13	1697	1/1	0.49	0.22	92,92,92,92	0
58	MG	1H	3152	1/1	0.51	0.34	100,100,100,100	0
58	MG	14	3224	1/1	0.51	0.38	90,90,90,90	0
58	MG	1G	1664	1/1	0.51	0.30	100,100,100,100	0
58	MG	2K	102	1/1	0.52	0.69	94,94,94,94	0
58	MG	13	1700	1/1	0.52	0.33	94,94,94,94	0
58	MG	14	3034	1/1	0.52	0.97	88,88,88,88	0
58	MG	39	301	1/1	0.52	0.21	96,96,96,96	0
58	MG	14	3399	1/1	0.53	0.28	107,107,107,107	0
58	MG	13	1672	1/1	0.54	0.45	109,109,109,109	0
58	MG	1H	3249	1/1	0.54	0.37	80,80,80,80	0
58	MG	13	1653	1/1	0.54	0.41	72,72,72,72	0
58	MG	13	1696	1/1	0.55	0.32	92,92,92,92	0
58	MG	1H	3171	1/1	0.56	0.43	83,83,83,83	0
58	MG	14	3037	1/1	0.56	0.46	106,106,106,106	0
58	MG	1H	3309	1/1	0.56	0.51	90,90,90,90	0
58	MG	1H	3036	1/1	0.56	0.74	100,100,100,100	0
58	MG	1H	3284	1/1	0.56	0.48	81,81,81,81	0
58	MG	14	3294	1/1	0.57	0.26	87,87,87,87	0
58	MG	14	3304	1/1	0.58	0.71	92,92,92,92	0
58	MG	13	1688	1/1	0.58	0.34	101,101,101,101	0
58	MG	1H	3035	1/1	0.59	0.45	83,83,83,83	0
58	MG	1H	3279	1/1	0.59	0.49	67,67,67,67	0
58	MG	25	201	1/1	0.59	0.34	102,102,102,102	0
58	MG	14	3316	1/1	0.60	0.35	122,122,122,122	0
58	MG	1H	3336	1/1	0.60	0.24	104,104,104,104	0
58	MG	14	3283	1/1	0.60	0.32	69,69,69,69	0
58	MG	14	3184	1/1	0.60	0.24	98,98,98,98	0
58	MG	14	3197	1/1	0.61	0.34	116,116,116,116	0
58	MG	14	3180	1/1	0.61	0.30	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3229	1/1	0.61	0.76	88,88,88,88	0
58	MG	1H	3164	1/1	0.61	0.21	64,64,64,64	0
58	MG	14	3185	1/1	0.61	0.51	82,82,82,82	0
58	MG	14	3190	1/1	0.61	0.58	86,86,86,86	0
58	MG	14	3191	1/1	0.61	0.58	96,96,96,96	0
58	MG	1H	3264	1/1	0.62	0.18	76,76,76,76	0
58	MG	1H	3278	1/1	0.62	0.48	95,95,95,95	0
58	MG	14	3017	1/1	0.62	0.51	90,90,90,90	0
58	MG	1H	3024	1/1	0.62	0.69	82,82,82,82	0
58	MG	1H	3331	1/1	0.62	0.62	73,73,73,73	0
58	MG	13	1605	1/1	0.62	0.24	76,76,76,76	0
58	MG	14	3129	1/1	0.62	0.69	73,73,73,73	0
58	MG	14	3140	1/1	0.62	0.33	82,82,82,82	0
58	MG	1G	1603	1/1	0.62	0.59	102,102,102,102	0
58	MG	1G	1635	1/1	0.63	0.28	107,107,107,107	0
58	MG	14	3269	1/1	0.63	0.50	88,88,88,88	0
58	MG	1H	3160	1/1	0.63	0.28	72,72,72,72	0
58	MG	1G	1646	1/1	0.63	0.24	100,100,100,100	0
58	MG	14	3068	1/1	0.63	0.65	100,100,100,100	0
58	MG	1G	1616	1/1	0.63	0.31	87,87,87,87	0
58	MG	14	3302	1/1	0.64	0.46	66,66,66,66	0
58	MG	14	3085	1/1	0.64	0.47	67,67,67,67	0
58	MG	14	3089	1/1	0.64	0.88	79,79,79,79	0
58	MG	13	1630	1/1	0.64	0.48	80,80,80,80	0
58	MG	1H	3285	1/1	0.65	0.47	68,68,68,68	0
58	MG	14	3261	1/1	0.65	0.49	77,77,77,77	0
58	MG	14	3026	1/1	0.66	0.34	89,89,89,89	0
58	MG	1J	203	1/1	0.66	0.23	103,103,103,103	0
58	MG	14	3153	1/1	0.66	0.44	89,89,89,89	0
58	MG	1E	301	1/1	0.66	0.20	106,106,106,106	0
58	MG	1H	3194	1/1	0.67	0.40	84,84,84,84	0
58	MG	1H	3207	1/1	0.67	0.48	84,84,84,84	0
58	MG	14	3264	1/1	0.67	0.57	85,85,85,85	0
58	MG	1H	3167	1/1	0.67	0.54	93,93,93,93	0
58	MG	14	3275	1/1	0.67	0.37	91,91,91,91	0
58	MG	14	3277	1/1	0.67	0.34	85,85,85,85	0
58	MG	35	202	1/1	0.67	0.24	87,87,87,87	0
58	MG	14	3262	1/1	0.68	0.34	96,96,96,96	0
58	MG	1H	3122	1/1	0.68	0.63	79,79,79,79	0
58	MG	14	3135	1/1	0.68	0.24	95,95,95,95	0
58	MG	13	1695	1/1	0.68	0.43	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	14	3392	1/1	0.68	0.06	128,128,128,128	0
58	MG	1H	3292	1/1	0.68	0.30	77,77,77,77	0
58	MG	14	3227	1/1	0.68	0.44	76,76,76,76	0
58	MG	2L	102	1/1	0.68	0.64	83,83,83,83	0
58	MG	1H	3253	1/1	0.68	0.37	66,66,66,66	0
58	MG	1H	3254	1/1	0.68	0.57	99,99,99,99	0
58	MG	1H	3459	1/1	0.69	0.06	106,106,106,106	0
58	MG	13	1632	1/1	0.69	0.40	107,107,107,107	0
58	MG	1H	3293	1/1	0.69	0.35	84,84,84,84	0
58	MG	14	3308	1/1	0.69	0.70	106,106,106,106	0
58	MG	14	3186	1/1	0.69	0.45	82,82,82,82	0
58	MG	1H	3079	1/1	0.69	0.38	79,79,79,79	0
58	MG	1H	3277	1/1	0.70	0.32	68,68,68,68	0
58	MG	1H	3314	1/1	0.70	0.30	85,85,85,85	0
58	MG	1H	3178	1/1	0.70	0.38	71,71,71,71	0
58	MG	1G	1648	1/1	0.70	0.32	117,117,117,117	0
58	MG	1G	1649	1/1	0.70	0.41	83,83,83,83	0
58	MG	13	1646	1/1	0.70	0.29	75,75,75,75	0
58	MG	1H	3301	1/1	0.70	0.44	84,84,84,84	0
58	MG	1H	3305	1/1	0.70	0.39	67,67,67,67	0
58	MG	1H	3306	1/1	0.70	0.31	91,91,91,91	0
58	MG	14	3030	1/1	0.70	0.39	86,86,86,86	0
58	MG	14	3257	1/1	0.70	1.14	86,86,86,86	0
58	MG	1H	3315	1/1	0.71	0.53	76,76,76,76	0
58	MG	1H	3328	1/1	0.71	0.58	80,80,80,80	0
58	MG	1H	3302	1/1	0.71	0.22	92,92,92,92	0
58	MG	13	1705	1/1	0.71	0.35	90,90,90,90	0
58	MG	14	3313	1/1	0.71	0.49	92,92,92,92	0
58	MG	13	1728	1/1	0.71	0.11	118,118,118,118	0
58	MG	16	204	1/1	0.71	0.32	73,73,73,73	0
58	MG	14	3255	1/1	0.71	0.25	78,78,78,78	0
58	MG	1H	3251	1/1	0.71	0.39	71,71,71,71	0
58	MG	1H	3217	1/1	0.71	0.34	71,71,71,71	0
58	MG	14	3295	1/1	0.71	0.20	85,85,85,85	0
58	MG	14	3259	1/1	0.71	0.75	98,98,98,98	0
58	MG	14	3231	1/1	0.72	0.34	86,86,86,86	0
58	MG	13	1656	1/1	0.72	0.15	103,103,103,103	0
58	MG	13	1659	1/1	0.72	0.62	97,97,97,97	0
58	MG	1J	201	1/1	0.72	0.30	94,94,94,94	0
58	MG	1H	3224	1/1	0.72	0.58	73,73,73,73	0
58	MG	1H	3368	1/1	0.72	0.24	74,74,74,74	0
58	MG	1H	3324	1/1	0.72	0.57	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3058	1/1	0.72	0.18	84,84,84,84	0
58	MG	E5	101	1/1	0.72	0.47	89,89,89,89	0
58	MG	1H	3139	1/1	0.73	0.36	71,71,71,71	0
58	MG	13	1641	1/1	0.73	0.44	93,93,93,93	0
58	MG	1H	3101	1/1	0.73	0.26	59,59,59,59	0
58	MG	1H	3180	1/1	0.73	0.43	75,75,75,75	0
58	MG	1H	3032	1/1	0.73	0.49	79,79,79,79	0
58	MG	14	3234	1/1	0.73	0.89	70,70,70,70	0
58	MG	14	3155	1/1	0.73	0.71	64,64,64,64	0
58	MG	14	3251	1/1	0.74	0.50	69,69,69,69	0
58	MG	1H	3288	1/1	0.74	0.87	93,93,93,93	0
58	MG	14	3194	1/1	0.74	0.34	81,81,81,81	0
58	MG	14	3019	1/1	0.74	0.67	90,90,90,90	0
58	MG	14	3181	1/1	0.74	0.41	89,89,89,89	0
58	MG	14	3260	1/1	0.74	0.78	72,72,72,72	0
58	MG	14	3300	1/1	0.74	0.24	117,117,117,117	0
58	MG	29	301	1/1	0.74	0.34	77,77,77,77	0
58	MG	13	1689	1/1	0.74	0.52	107,107,107,107	0
58	MG	1H	3222	1/1	0.74	0.33	98,98,98,98	0
58	MG	14	3143	1/1	0.74	0.30	102,102,102,102	0
58	MG	1H	3342	1/1	0.74	0.63	92,92,92,92	0
58	MG	1H	3031	1/1	0.75	0.53	76,76,76,76	0
58	MG	1H	3080	1/1	0.75	0.21	65,65,65,65	0
58	MG	I8	101	1/1	0.75	0.32	73,73,73,73	0
58	MG	14	3144	1/1	0.75	0.41	71,71,71,71	0
58	MG	2K	103	1/1	0.75	0.42	114,114,114,114	0
58	MG	1H	3228	1/1	0.75	0.45	83,83,83,83	0
58	MG	14	3250	1/1	0.75	0.41	78,78,78,78	0
58	MG	1H	3457	1/1	0.75	0.06	141,141,141,141	0
58	MG	1H	3313	1/1	0.76	0.26	98,98,98,98	0
58	MG	14	3147	1/1	0.76	0.23	95,95,95,95	0
58	MG	14	3310	1/1	0.76	0.23	114,114,114,114	0
58	MG	14	3052	1/1	0.76	0.50	113,113,113,113	0
58	MG	1H	3199	1/1	0.76	0.25	69,69,69,69	0
58	MG	1H	3247	1/1	0.76	0.21	81,81,81,81	0
58	MG	1G	1666	1/1	0.76	0.50	84,84,84,84	0
58	MG	1H	3154	1/1	0.76	0.54	84,84,84,84	0
58	MG	13	1681	1/1	0.76	0.19	116,116,116,116	0
58	MG	14	3288	1/1	0.76	0.74	86,86,86,86	0
58	MG	13	1662	1/1	0.76	0.36	118,118,118,118	0
58	MG	14	3188	1/1	0.76	0.56	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3043	1/1	0.76	0.76	81,81,81,81	0
58	MG	1H	3197	1/1	0.76	0.63	80,80,80,80	0
58	MG	35	203	1/1	0.76	0.24	75,75,75,75	0
58	MG	1H	3291	1/1	0.76	0.31	73,73,73,73	0
58	MG	14	3291	1/1	0.77	0.35	87,87,87,87	0
58	MG	14	3293	1/1	0.77	0.51	91,91,91,91	0
58	MG	14	3345	1/1	0.77	0.10	90,90,90,90	0
58	MG	1G	1672	1/1	0.77	0.43	99,99,99,99	0
58	MG	14	3268	1/1	0.77	0.41	94,94,94,94	0
58	MG	1H	3087	1/1	0.77	0.57	70,70,70,70	0
58	MG	14	3301	1/1	0.77	0.21	109,109,109,109	0
58	MG	14	3117	1/1	0.77	0.44	81,81,81,81	0
58	MG	29	302	1/1	0.77	0.45	65,65,65,65	0
58	MG	1H	3296	1/1	0.77	0.22	57,57,57,57	0
58	MG	1H	3136	1/1	0.77	0.34	49,49,49,49	0
58	MG	13	1621	1/1	0.77	0.21	90,90,90,90	0
58	MG	1H	3142	1/1	0.77	0.45	68,68,68,68	0
58	MG	14	3290	1/1	0.77	0.22	92,92,92,92	0
58	MG	14	3306	1/1	0.78	0.29	88,88,88,88	0
58	MG	1G	1643	1/1	0.78	0.24	132,132,132,132	0
58	MG	1H	3263	1/1	0.78	0.25	76,76,76,76	0
58	MG	1H	3439	1/1	0.78	0.07	99,99,99,99	0
58	MG	13	1644	1/1	0.78	0.43	96,96,96,96	0
58	MG	1H	3271	1/1	0.78	0.39	76,76,76,76	0
58	MG	14	3247	1/1	0.78	0.28	67,67,67,67	0
58	MG	14	3073	1/1	0.78	1.32	83,83,83,83	0
58	MG	14	3183	1/1	0.78	0.77	79,79,79,79	0
58	MG	1H	3327	1/1	0.78	0.79	82,82,82,82	0
58	MG	1H	3175	1/1	0.78	0.53	65,65,65,65	0
58	MG	1H	3022	1/1	0.78	0.39	62,62,62,62	0
58	MG	1G	1604	1/1	0.78	0.44	87,87,87,87	0
58	MG	1H	3201	1/1	0.78	0.69	92,92,92,92	0
58	MG	13	1706	1/1	0.78	0.39	109,109,109,109	0
58	MG	35	201	1/1	0.78	0.26	74,74,74,74	0
58	MG	14	3029	1/1	0.78	0.72	78,78,78,78	0
58	MG	1H	3364	1/1	0.78	0.10	98,98,98,98	0
58	MG	14	3265	1/1	0.78	0.52	98,98,98,98	0
58	MG	13	1694	1/1	0.79	0.55	64,64,64,64	0
58	MG	14	3018	1/1	0.79	0.61	72,72,72,72	0
58	MG	14	3353	1/1	0.79	0.09	118,118,118,118	0
58	MG	1G	1606	1/1	0.79	0.22	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	14	3243	1/1	0.79	0.47	81,81,81,81	0
58	MG	1H	3414	1/1	0.79	0.19	80,80,80,80	0
58	MG	1G	1618	1/1	0.79	0.33	109,109,109,109	0
58	MG	16	209	1/1	0.79	0.10	100,100,100,100	0
58	MG	14	3252	1/1	0.79	0.39	84,84,84,84	0
58	MG	14	3253	1/1	0.79	0.26	94,94,94,94	0
58	MG	14	3280	1/1	0.79	0.91	86,86,86,86	0
58	MG	1H	3045	1/1	0.79	0.33	82,82,82,82	0
58	MG	1G	1680	1/1	0.79	0.06	140,140,140,140	0
58	MG	14	3182	1/1	0.79	0.74	75,75,75,75	0
58	MG	1H	3083	1/1	0.79	0.33	67,67,67,67	0
58	MG	14	3023	1/1	0.80	0.29	83,83,83,83	0
58	MG	13	1675	1/1	0.80	0.30	73,73,73,73	0
58	MG	1H	3268	1/1	0.80	0.42	85,85,85,85	0
58	MG	14	3221	1/1	0.80	0.20	69,69,69,69	0
58	MG	1H	3196	1/1	0.80	0.44	83,83,83,83	0
58	MG	1H	3033	1/1	0.80	0.58	88,88,88,88	0
58	MG	14	3150	1/1	0.80	0.40	87,87,87,87	0
58	MG	1H	3021	1/1	0.80	0.30	83,83,83,83	0
58	MG	1H	3298	1/1	0.80	0.35	74,74,74,74	0
58	MG	14	3179	1/1	0.80	0.24	60,60,60,60	0
58	MG	14	3391	1/1	0.80	0.13	104,104,104,104	0
58	MG	1G	1667	1/1	0.80	0.28	109,109,109,109	0
58	MG	1H	3173	1/1	0.80	0.47	84,84,84,84	0
58	MG	1G	1678	1/1	0.80	0.06	128,128,128,128	0
58	MG	14	3080	1/1	0.80	0.46	82,82,82,82	0
58	MG	1J	204	1/1	0.80	0.27	101,101,101,101	0
58	MG	14	3292	1/1	0.80	0.14	113,113,113,113	0
58	MG	1H	3282	1/1	0.80	0.60	88,88,88,88	0
58	MG	1H	3205	1/1	0.80	0.19	81,81,81,81	0
58	MG	13	1704	1/1	0.80	0.41	82,82,82,82	0
58	MG	14	3297	1/1	0.80	0.69	70,70,70,70	0
58	MG	14	3187	1/1	0.80	0.45	80,80,80,80	0
58	MG	13	1678	1/1	0.80	0.27	93,93,93,93	0
58	MG	13	1679	1/1	0.80	0.28	100,100,100,100	0
58	MG	1G	1663	1/1	0.81	0.10	94,94,94,94	0
58	MG	1H	3307	1/1	0.81	0.52	94,94,94,94	0
58	MG	98	201	1/1	0.81	0.41	72,72,72,72	0
58	MG	1H	3337	1/1	0.81	0.22	89,89,89,89	0
58	MG	P8	101	1/1	0.81	0.58	77,77,77,77	0
58	MG	13	1637	1/1	0.81	0.38	56,56,56,56	0
58	MG	1G	1679	1/1	0.81	0.11	119,119,119,119	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	13	1670	1/1	0.81	0.19	97,97,97,97	0
58	MG	1G	1686	1/1	0.81	0.08	125,125,125,125	0
58	MG	1H	3179	1/1	0.81	0.35	83,83,83,83	0
58	MG	1H	3097	1/1	0.81	0.44	71,71,71,71	0
58	MG	14	3271	1/1	0.81	0.21	81,81,81,81	0
58	MG	1H	3246	1/1	0.81	0.23	54,54,54,54	0
58	MG	1H	3441	1/1	0.81	0.13	89,89,89,89	0
58	MG	14	3395	1/1	0.81	0.10	103,103,103,103	0
58	MG	14	3146	1/1	0.81	0.43	57,57,57,57	0
58	MG	14	3228	1/1	0.81	0.17	101,101,101,101	0
58	MG	13	1661	1/1	0.81	0.48	103,103,103,103	0
58	MG	1H	3209	1/1	0.81	0.42	90,90,90,90	0
58	MG	16	203	1/1	0.81	0.14	90,90,90,90	0
58	MG	1H	3019	1/1	0.81	0.49	92,92,92,92	0
58	MG	14	3245	1/1	0.81	0.47	77,77,77,77	0
58	MG	14	3170	1/1	0.81	0.37	83,83,83,83	0
58	MG	14	3177	1/1	0.81	0.46	72,72,72,72	0
58	MG	16	205	1/1	0.81	0.11	81,81,81,81	0
58	MG	1G	1657	1/1	0.81	0.36	92,92,92,92	0
58	MG	1G	1659	1/1	0.81	0.18	142,142,142,142	0
58	MG	14	3109	1/1	0.82	0.38	73,73,73,73	0
58	MG	1G	1636	1/1	0.82	0.32	101,101,101,101	0
58	MG	14	3125	1/1	0.82	0.75	72,72,72,72	0
58	MG	1G	1668	1/1	0.82	0.36	116,116,116,116	0
58	MG	3K	101	1/1	0.82	0.34	162,162,162,162	0
58	MG	13	1682	1/1	0.82	0.45	88,88,88,88	0
58	MG	1H	3151	1/1	0.82	0.20	55,55,55,55	0
58	MG	14	3393	1/1	0.82	0.06	127,127,127,127	0
58	MG	1H	3128	1/1	0.82	0.22	62,62,62,62	0
58	MG	1G	1684	1/1	0.82	0.11	109,109,109,109	0
58	MG	14	3193	1/1	0.82	0.40	77,77,77,77	0
58	MG	1J	202	1/1	0.82	0.27	95,95,95,95	0
58	MG	14	3059	1/1	0.82	0.32	86,86,86,86	0
58	MG	14	3060	1/1	0.82	0.23	73,73,73,73	0
58	MG	13	1685	1/1	0.82	0.24	121,121,121,121	0
58	MG	14	3222	1/1	0.82	0.23	97,97,97,97	0
58	MG	1H	3413	1/1	0.82	0.08	102,102,102,102	0
58	MG	14	3074	1/1	0.82	0.81	79,79,79,79	0
58	MG	1G	1615	1/1	0.82	0.23	125,125,125,125	0
58	MG	1H	3280	1/1	0.82	0.33	77,77,77,77	0
58	MG	1H	3438	1/1	0.82	0.11	83,83,83,83	0
58	MG	78	201	1/1	0.82	0.36	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1H	3287	1/1	0.83	0.29	104,104,104,104	0
58	MG	1H	3018	1/1	0.83	0.55	71,71,71,71	0
58	MG	1G	1609	1/1	0.83	0.18	94,94,94,94	0
58	MG	13	1715	1/1	0.83	0.10	109,109,109,109	0
58	MG	1H	3190	1/1	0.83	0.32	73,73,73,73	0
58	MG	1H	3159	1/1	0.83	0.42	67,67,67,67	0
58	MG	1G	1620	1/1	0.83	0.31	82,82,82,82	0
58	MG	14	3107	1/1	0.83	0.51	77,77,77,77	0
58	MG	1G	1630	1/1	0.83	0.41	103,103,103,103	0
58	MG	6A	101	1/1	0.83	0.26	93,93,93,93	0
58	MG	13	1650	1/1	0.83	0.30	94,94,94,94	0
58	MG	14	3012	1/1	0.83	0.81	80,80,80,80	0
58	MG	13	1604	1/1	0.83	0.27	87,87,87,87	0
58	MG	13	1634	1/1	0.83	1.02	93,93,93,93	0
58	MG	14	3201	1/1	0.83	0.27	59,59,59,59	0
58	MG	1H	3335	1/1	0.83	0.68	74,74,74,74	0
58	MG	14	3273	1/1	0.83	0.46	101,101,101,101	0
58	MG	14	3022	1/1	0.83	0.38	64,64,64,64	0
58	MG	1H	3137	1/1	0.83	0.61	88,88,88,88	0
58	MG	13	1668	1/1	0.83	0.09	90,90,90,90	0
58	MG	21	302	1/1	0.83	0.33	77,77,77,77	0
58	MG	1G	1650	1/1	0.83	0.30	114,114,114,114	0
58	MG	14	3230	1/1	0.83	0.41	64,64,64,64	0
58	MG	1H	3338	1/1	0.83	0.37	65,65,65,65	0
58	MG	1H	3341	1/1	0.83	0.21	79,79,79,79	0
58	MG	14	3236	1/1	0.83	0.51	89,89,89,89	0
58	MG	14	3238	1/1	0.83	0.33	99,99,99,99	0
58	MG	13	1669	1/1	0.83	0.30	68,68,68,68	0
58	MG	13	1708	1/1	0.83	0.13	89,89,89,89	0
58	MG	1H	3262	1/1	0.83	0.37	94,94,94,94	0
58	MG	1H	3184	1/1	0.84	0.26	82,82,82,82	0
58	MG	14	3248	1/1	0.84	0.21	79,79,79,79	0
58	MG	1H	3233	1/1	0.84	0.59	62,62,62,62	0
58	MG	1H	3187	1/1	0.84	0.25	69,69,69,69	0
58	MG	1H	3316	1/1	0.84	0.88	92,92,92,92	0
58	MG	1H	3089	1/1	0.84	0.44	59,59,59,59	0
58	MG	14	3021	1/1	0.84	0.45	52,52,52,52	0
58	MG	14	3278	1/1	0.84	0.34	75,75,75,75	0
58	MG	14	3256	1/1	0.84	0.54	83,83,83,83	0
58	MG	5E	201	1/1	0.84	0.26	89,89,89,89	0
58	MG	14	3067	1/1	0.84	0.31	87,87,87,87	0
58	MG	29	304	1/1	0.84	0.22	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3125	1/1	0.84	0.50	69,69,69,69	0
58	MG	14	3237	1/1	0.84	0.37	83,83,83,83	0
58	MG	1H	3308	1/1	0.84	0.51	90,90,90,90	0
58	MG	14	3027	1/1	0.84	0.39	96,96,96,96	0
58	MG	1H	3226	1/1	0.84	0.38	85,85,85,85	0
58	MG	14	3363	1/1	0.84	0.19	72,72,72,72	0
58	MG	1G	1633	1/1	0.85	0.31	98,98,98,98	0
58	MG	1H	3252	1/1	0.85	0.50	66,66,66,66	0
58	MG	1H	3071	1/1	0.85	0.38	61,61,61,61	0
58	MG	1G	1637	1/1	0.85	0.55	87,87,87,87	0
58	MG	41	201	1/1	0.85	0.07	78,78,78,78	0
58	MG	14	3061	1/1	0.85	0.12	81,81,81,81	0
58	MG	14	3205	1/1	0.85	0.34	96,96,96,96	0
58	MG	1H	3322	1/1	0.85	0.65	81,81,81,81	0
58	MG	1H	3108	1/1	0.85	0.33	74,74,74,74	0
58	MG	1H	3072	1/1	0.85	0.30	77,77,77,77	0
58	MG	1H	3422	1/1	0.85	0.16	112,112,112,112	0
58	MG	1H	3227	1/1	0.85	0.68	85,85,85,85	0
58	MG	13	1703	1/1	0.85	0.78	77,77,77,77	0
58	MG	1H	3332	1/1	0.85	0.32	74,74,74,74	0
58	MG	1H	3096	1/1	0.85	0.33	60,60,60,60	0
58	MG	1H	3193	1/1	0.85	0.50	73,73,73,73	0
58	MG	14	3266	1/1	0.85	0.53	85,85,85,85	0
58	MG	1G	1665	1/1	0.85	0.26	113,113,113,113	0
58	MG	1H	3463	1/1	0.85	0.08	112,112,112,112	0
58	MG	1H	3213	1/1	0.85	0.38	74,74,74,74	0
58	MG	14	3309	1/1	0.85	0.44	110,110,110,110	0
58	MG	1H	3130	1/1	0.85	0.32	74,74,74,74	0
58	MG	1H	3020	1/1	0.85	0.32	66,66,66,66	0
58	MG	1H	3290	1/1	0.86	0.22	70,70,70,70	0
58	MG	1G	1619	1/1	0.86	0.21	101,101,101,101	0
58	MG	1H	3321	1/1	0.86	0.25	67,67,67,67	0
58	MG	1H	3157	1/1	0.86	0.47	73,73,73,73	0
58	MG	13	1692	1/1	0.86	0.16	122,122,122,122	0
58	MG	1G	1634	1/1	0.86	0.29	112,112,112,112	0
58	MG	13	1606	1/1	0.86	0.46	94,94,94,94	0
58	MG	1H	3141	1/1	0.86	0.40	61,61,61,61	0
58	MG	14	3013	1/1	0.86	0.23	78,78,78,78	0
58	MG	14	3199	1/1	0.86	0.50	69,69,69,69	0
58	MG	14	3118	1/1	0.86	0.45	69,69,69,69	0
58	MG	1H	3329	1/1	0.86	0.77	81,81,81,81	0
58	MG	1H	3203	1/1	0.86	0.37	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1G	1641	1/1	0.86	0.34	113,113,113,113	0
58	MG	1H	3276	1/1	0.86	0.68	75,75,75,75	0
58	MG	1H	3185	1/1	0.86	0.40	95,95,95,95	0
58	MG	1H	3234	1/1	0.86	0.08	66,66,66,66	0
58	MG	1H	3303	1/1	0.86	0.77	78,78,78,78	0
58	MG	1H	3242	1/1	0.86	0.36	52,52,52,52	0
58	MG	1G	1654	1/1	0.86	0.53	83,83,83,83	0
58	MG	1H	3340	1/1	0.86	0.50	78,78,78,78	0
58	MG	1H	3206	1/1	0.86	0.35	77,77,77,77	0
58	MG	14	3163	1/1	0.86	0.27	90,90,90,90	0
58	MG	1H	3126	1/1	0.86	0.23	58,58,58,58	0
58	MG	1H	3188	1/1	0.86	0.38	73,73,73,73	0
58	MG	13	1647	1/1	0.86	0.23	89,89,89,89	0
58	MG	1H	3216	1/1	0.86	0.40	67,67,67,67	0
58	MG	13	1707	1/1	0.86	0.15	76,76,76,76	0
58	MG	1H	3015	1/1	0.86	0.27	63,63,63,63	0
58	MG	14	3296	1/1	0.86	0.41	84,84,84,84	0
58	MG	1G	1671	1/1	0.86	0.38	88,88,88,88	0
58	MG	55	201	1/1	0.86	0.30	74,74,74,74	0
58	MG	1H	3426	1/1	0.86	0.13	58,58,58,58	0
58	MG	1H	3452	1/1	0.87	0.13	104,104,104,104	0
58	MG	14	3263	1/1	0.87	0.24	75,75,75,75	0
58	MG	14	3169	1/1	0.87	0.40	58,58,58,58	0
58	MG	1H	3168	1/1	0.87	0.38	69,69,69,69	0
58	MG	14	3084	1/1	0.87	0.56	80,80,80,80	0
58	MG	1G	1662	1/1	0.87	0.68	72,72,72,72	0
58	MG	13	1686	1/1	0.87	0.50	76,76,76,76	0
58	MG	1H	3156	1/1	0.87	0.31	67,67,67,67	0
58	MG	14	3272	1/1	0.87	0.38	76,76,76,76	0
58	MG	16	202	1/1	0.87	0.25	64,64,64,64	0
58	MG	14	3274	1/1	0.87	0.15	76,76,76,76	0
58	MG	13	1680	1/1	0.87	0.28	96,96,96,96	0
58	MG	1H	3176	1/1	0.87	0.46	76,76,76,76	0
58	MG	1H	3158	1/1	0.87	0.49	74,74,74,74	0
58	MG	1H	3066	1/1	0.87	0.33	59,59,59,59	0
58	MG	14	3281	1/1	0.87	0.38	86,86,86,86	0
58	MG	14	3246	1/1	0.87	0.22	69,69,69,69	0
58	MG	1H	3281	1/1	0.87	0.20	88,88,88,88	0
58	MG	14	3284	1/1	0.87	0.78	78,78,78,78	0
58	MG	14	3131	1/1	0.87	0.33	95,95,95,95	0
58	MG	1H	3376	1/1	0.87	0.23	76,76,76,76	0
58	MG	1J	205	1/1	0.87	0.09	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3326	1/1	0.87	0.56	83,83,83,83	0
58	MG	13	1639	1/1	0.87	0.56	82,82,82,82	0
58	MG	1H	3182	1/1	0.87	0.20	78,78,78,78	0
58	MG	1H	3258	1/1	0.87	0.27	59,59,59,59	0
58	MG	1H	3135	1/1	0.87	0.12	65,65,65,65	0
58	MG	1K	101	1/1	0.87	0.09	145,145,145,145	0
58	MG	1H	3186	1/1	0.87	0.34	75,75,75,75	0
58	MG	14	3211	1/1	0.87	0.37	91,91,91,91	0
58	MG	14	3154	1/1	0.87	0.25	69,69,69,69	0
58	MG	1H	3445	1/1	0.87	0.07	110,110,110,110	0
58	MG	13	1608	1/1	0.88	0.75	90,90,90,90	0
58	MG	13	1624	1/1	0.88	0.23	103,103,103,103	0
58	MG	1H	3286	1/1	0.88	0.32	94,94,94,94	0
58	MG	I8	102	1/1	0.88	0.24	70,70,70,70	0
58	MG	14	3286	1/1	0.88	0.38	80,80,80,80	0
58	MG	14	3364	1/1	0.88	0.16	85,85,85,85	0
58	MG	14	3386	1/1	0.88	0.16	90,90,90,90	0
58	MG	14	3100	1/1	0.88	0.38	76,76,76,76	0
58	MG	L8	101	1/1	0.88	0.62	84,84,84,84	0
58	MG	1H	3140	1/1	0.88	0.27	58,58,58,58	0
58	MG	Q8	101	1/1	0.88	0.33	70,70,70,70	0
58	MG	1G	1677	1/1	0.88	0.12	96,96,96,96	0
58	MG	14	3032	1/1	0.88	0.45	75,75,75,75	0
58	MG	14	3232	1/1	0.88	0.21	81,81,81,81	0
58	MG	1H	3041	1/1	0.88	0.22	76,76,76,76	0
58	MG	1H	3467	1/1	0.88	0.10	84,84,84,84	0
58	MG	14	3299	1/1	0.88	0.20	98,98,98,98	0
58	MG	13	1677	1/1	0.88	0.16	104,104,104,104	0
58	MG	14	3055	1/1	0.88	0.10	81,81,81,81	0
58	MG	1H	3333	1/1	0.88	0.34	100,100,100,100	0
58	MG	1G	1613	1/1	0.88	0.21	98,98,98,98	0
58	MG	1H	3320	1/1	0.88	0.46	77,77,77,77	0
58	MG	1H	3170	1/1	0.88	0.46	65,65,65,65	0
58	MG	1H	3269	1/1	0.88	0.32	65,65,65,65	0
58	MG	1H	3323	1/1	0.88	0.45	80,80,80,80	0
58	MG	1H	3144	1/1	0.88	0.40	77,77,77,77	0
58	MG	1G	1628	1/1	0.88	0.44	95,95,95,95	0
58	MG	1G	1689	1/1	0.89	0.17	121,121,121,121	0
58	MG	14	3126	1/1	0.89	0.39	67,67,67,67	0
58	MG	13	1652	1/1	0.89	0.24	99,99,99,99	0
58	MG	1H	3334	1/1	0.89	0.30	76,76,76,76	0
58	MG	14	3244	1/1	0.89	0.59	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3007	1/1	0.89	0.48	54,54,54,54	0
58	MG	14	3324	1/1	0.89	0.06	99,99,99,99	0
58	MG	1G	1631	1/1	0.89	0.25	96,96,96,96	0
58	MG	1H	3388	1/1	0.89	0.07	77,77,77,77	0
58	MG	13	1691	1/1	0.89	0.48	90,90,90,90	0
58	MG	1H	3325	1/1	0.89	0.44	71,71,71,71	0
58	MG	14	3195	1/1	0.89	0.37	68,68,68,68	0
58	MG	14	3285	1/1	0.89	0.25	68,68,68,68	0
58	MG	1H	3417	1/1	0.89	0.22	94,94,94,94	0
58	MG	14	3287	1/1	0.89	0.22	82,82,82,82	0
58	MG	1H	3419	1/1	0.89	0.06	101,101,101,101	0
58	MG	1H	3131	1/1	0.89	0.56	73,73,73,73	0
58	MG	14	3203	1/1	0.89	0.34	56,56,56,56	0
58	MG	1H	3232	1/1	0.89	0.17	52,52,52,52	0
58	MG	14	3024	1/1	0.89	0.57	77,77,77,77	0
58	MG	14	3220	1/1	0.89	0.43	76,76,76,76	0
58	MG	14	3160	1/1	0.89	0.37	72,72,72,72	0
58	MG	1H	3042	1/1	0.89	0.85	90,90,90,90	0
58	MG	14	3090	1/1	0.89	0.29	74,74,74,74	0
58	MG	1H	3221	1/1	0.89	0.40	89,89,89,89	0
58	MG	14	3104	1/1	0.89	0.65	86,86,86,86	0
58	MG	1G	1647	1/1	0.89	0.80	83,83,83,83	0
58	MG	13	1687	1/1	0.89	0.27	99,99,99,99	0
58	MG	1H	3353	1/1	0.89	0.16	57,57,57,57	0
58	MG	13	1620	1/1	0.89	0.28	73,73,73,73	0
58	MG	1G	1622	1/1	0.89	1.19	92,92,92,92	0
58	MG	14	3307	1/1	0.89	0.48	101,101,101,101	0
58	MG	13	1655	1/1	0.90	0.46	87,87,87,87	0
58	MG	1H	3034	1/1	0.90	0.45	80,80,80,80	0
58	MG	1H	3446	1/1	0.90	0.09	84,84,84,84	0
58	MG	14	3033	1/1	0.90	0.26	77,77,77,77	0
58	MG	14	3149	1/1	0.90	0.54	73,73,73,73	0
58	MG	1H	3238	1/1	0.90	0.14	65,65,65,65	0
58	MG	14	3035	1/1	0.90	0.22	93,93,93,93	0
58	MG	13	1651	1/1	0.90	0.41	88,88,88,88	0
58	MG	14	3049	1/1	0.90	0.21	70,70,70,70	0
58	MG	14	3157	1/1	0.90	0.25	57,57,57,57	0
58	MG	1H	3155	1/1	0.90	0.34	74,74,74,74	0
58	MG	1H	3003	1/1	0.90	0.26	64,64,64,64	0
58	MG	14	3165	1/1	0.90	0.51	77,77,77,77	0
58	MG	14	3168	1/1	0.90	0.53	106,106,106,106	0
58	MG	1H	3464	1/1	0.90	0.14	107,107,107,107	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3249	1/1	0.90	0.24	80,80,80,80	0
58	MG	1H	3039	1/1	0.90	0.32	68,68,68,68	0
58	MG	14	3172	1/1	0.90	0.70	70,70,70,70	0
58	MG	14	3176	1/1	0.90	0.47	79,79,79,79	0
58	MG	1H	3085	1/1	0.90	0.42	63,63,63,63	0
58	MG	1H	3215	1/1	0.90	0.28	63,63,63,63	0
58	MG	14	3312	1/1	0.90	0.54	80,80,80,80	0
58	MG	1H	3132	1/1	0.90	0.65	85,85,85,85	0
58	MG	1H	3318	1/1	0.90	0.42	79,79,79,79	0
58	MG	16	207	1/1	0.90	0.07	80,80,80,80	0
58	MG	14	3325	1/1	0.90	0.14	63,63,63,63	0
58	MG	14	3333	1/1	0.90	0.17	74,74,74,74	0
58	MG	1H	3362	1/1	0.90	0.11	53,53,53,53	0
58	MG	1G	1687	1/1	0.90	0.06	139,139,139,139	0
58	MG	1H	3319	1/1	0.90	0.52	110,110,110,110	0
58	MG	1H	3009	1/1	0.90	0.27	62,62,62,62	0
58	MG	14	3378	1/1	0.90	0.07	100,100,100,100	0
58	MG	1G	1639	1/1	0.90	0.51	74,74,74,74	0
58	MG	14	3389	1/1	0.90	0.09	102,102,102,102	0
58	MG	1G	1640	1/1	0.90	0.48	87,87,87,87	0
58	MG	14	3096	1/1	0.90	0.34	73,73,73,73	0
58	MG	1H	3088	1/1	0.90	0.34	68,68,68,68	0
58	MG	13	1702	1/1	0.90	0.27	98,98,98,98	0
58	MG	1H	3027	1/1	0.90	0.32	81,81,81,81	0
58	MG	13	1631	1/1	0.90	0.37	93,93,93,93	0
58	MG	1H	3267	1/1	0.90	0.49	73,73,73,73	0
58	MG	14	3111	1/1	0.90	0.14	81,81,81,81	0
58	MG	14	3200	1/1	0.90	0.46	74,74,74,74	0
58	MG	14	3115	1/1	0.90	0.40	80,80,80,80	0
58	MG	1H	3063	1/1	0.90	0.13	78,78,78,78	0
58	MG	14	3204	1/1	0.90	0.19	77,77,77,77	0
58	MG	13	1629	1/1	0.90	0.39	96,96,96,96	0
58	MG	1H	3119	1/1	0.90	0.20	69,69,69,69	0
58	MG	14	3212	1/1	0.90	0.39	70,70,70,70	0
58	MG	1H	3272	1/1	0.90	0.18	64,64,64,64	0
58	MG	14	3025	1/1	0.90	0.62	84,84,84,84	0
58	MG	1H	3200	1/1	0.90	0.49	81,81,81,81	0
58	MG	45	201	1/1	0.90	0.16	108,108,108,108	0
58	MG	1G	1661	1/1	0.90	0.23	123,123,123,123	0
58	MG	14	3028	1/1	0.90	0.25	69,69,69,69	0
58	MG	1H	3460	1/1	0.91	0.09	104,104,104,104	0
58	MG	14	3305	1/1	0.91	0.49	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1H	3047	1/1	0.91	0.32	47,47,47,47	0
58	MG	1G	1614	1/1	0.91	0.30	107,107,107,107	0
58	MG	1H	3002	1/1	0.91	0.25	38,38,38,38	0
58	MG	1H	3367	1/1	0.91	0.09	71,71,71,71	0
58	MG	13	1654	1/1	0.91	0.38	74,74,74,74	0
58	MG	14	3215	1/1	0.91	0.22	72,72,72,72	0
58	MG	14	3217	1/1	0.91	0.43	83,83,83,83	0
58	MG	1H	3095	1/1	0.91	0.33	65,65,65,65	0
58	MG	1H	3220	1/1	0.91	0.27	82,82,82,82	0
58	MG	1H	3004	1/1	0.91	0.32	57,57,57,57	0
58	MG	14	3223	1/1	0.91	0.35	86,86,86,86	0
58	MG	14	3099	1/1	0.91	0.56	87,87,87,87	0
58	MG	13	1710	1/1	0.91	0.09	97,97,97,97	0
58	MG	14	3352	1/1	0.91	0.07	97,97,97,97	0
58	MG	14	3171	1/1	0.91	0.32	99,99,99,99	0
58	MG	1H	3100	1/1	0.91	0.24	61,61,61,61	0
58	MG	1H	3418	1/1	0.91	0.08	92,92,92,92	0
58	MG	14	3365	1/1	0.91	0.05	94,94,94,94	0
58	MG	13	1657	1/1	0.91	0.28	103,103,103,103	0
58	MG	14	3384	1/1	0.91	0.14	83,83,83,83	0
58	MG	14	3279	1/1	0.91	0.09	104,104,104,104	0
58	MG	14	3178	1/1	0.91	0.50	84,84,84,84	0
58	MG	1G	1670	1/1	0.91	0.43	86,86,86,86	0
58	MG	1H	3104	1/1	0.91	0.58	69,69,69,69	0
58	MG	14	3031	1/1	0.91	0.42	68,68,68,68	0
58	MG	1H	3204	1/1	0.91	0.42	69,69,69,69	0
58	MG	14	3397	1/1	0.91	0.50	73,73,73,73	0
58	MG	14	3239	1/1	0.91	0.17	80,80,80,80	0
58	MG	14	3241	1/1	0.91	0.35	56,56,56,56	0
58	MG	14	3242	1/1	0.91	0.52	67,67,67,67	0
58	MG	1G	1674	1/1	0.91	0.44	102,102,102,102	0
58	MG	14	3122	1/1	0.91	0.28	88,88,88,88	0
58	MG	1H	3265	1/1	0.91	0.40	78,78,78,78	0
58	MG	13	1720	1/1	0.91	0.10	90,90,90,90	0
58	MG	J8	101	1/1	0.91	0.19	66,66,66,66	0
58	MG	1H	3162	1/1	0.91	0.39	88,88,88,88	0
58	MG	1H	3118	1/1	0.91	0.84	77,77,77,77	0
58	MG	1H	3270	1/1	0.91	0.86	80,80,80,80	0
58	MG	1G	1602	1/1	0.91	0.42	79,79,79,79	0
58	MG	1G	1645	1/1	0.91	0.52	74,74,74,74	0
58	MG	13	1627	1/1	0.91	0.55	69,69,69,69	0
58	MG	1H	3294	1/1	0.91	0.34	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3148	1/1	0.91	0.31	77,77,77,77	0
58	MG	13	1731	1/1	0.91	0.14	84,84,84,84	0
60	ZN	G8	201	1/1	0.91	0.11	149,149,149,149	0
58	MG	14	3056	1/1	0.92	0.34	55,55,55,55	0
58	MG	1H	3038	1/1	0.92	0.34	92,92,92,92	0
58	MG	1H	3304	1/1	0.92	0.33	86,86,86,86	0
58	MG	1G	1681	1/1	0.92	0.10	78,78,78,78	0
58	MG	13	1625	1/1	0.92	0.33	86,86,86,86	0
58	MG	13	1626	1/1	0.92	0.37	69,69,69,69	0
58	MG	14	3314	1/1	0.92	0.32	94,94,94,94	0
58	MG	14	3267	1/1	0.92	0.25	92,92,92,92	0
58	MG	13	1636	1/1	0.92	0.28	64,64,64,64	0
58	MG	1H	3198	1/1	0.92	0.43	69,69,69,69	0
58	MG	1H	3177	1/1	0.92	0.23	74,74,74,74	0
58	MG	14	3340	1/1	0.92	0.09	79,79,79,79	0
58	MG	14	3343	1/1	0.92	0.08	82,82,82,82	0
58	MG	14	3076	1/1	0.92	0.34	62,62,62,62	0
58	MG	14	3347	1/1	0.92	0.06	108,108,108,108	0
58	MG	1H	3078	1/1	0.92	0.51	67,67,67,67	0
58	MG	13	1623	1/1	0.92	0.23	108,108,108,108	0
58	MG	14	3355	1/1	0.92	0.10	102,102,102,102	0
58	MG	14	3362	1/1	0.92	0.12	77,77,77,77	0
58	MG	1H	3044	1/1	0.92	0.27	82,82,82,82	0
58	MG	14	3086	1/1	0.92	0.43	83,83,83,83	0
58	MG	1H	3161	1/1	0.92	0.30	84,84,84,84	0
58	MG	14	3374	1/1	0.92	0.07	76,76,76,76	0
58	MG	14	3175	1/1	0.92	0.16	92,92,92,92	0
58	MG	14	3381	1/1	0.92	0.14	81,81,81,81	0
58	MG	14	3233	1/1	0.92	0.15	86,86,86,86	0
58	MG	1H	3317	1/1	0.92	0.38	68,68,68,68	0
58	MG	1G	1653	1/1	0.92	0.15	97,97,97,97	0
58	MG	13	1729	1/1	0.92	0.07	113,113,113,113	0
58	MG	1G	1655	1/1	0.92	0.25	100,100,100,100	0
58	MG	1G	1656	1/1	0.92	0.41	78,78,78,78	0
58	MG	14	3394	1/1	0.92	0.05	109,109,109,109	0
58	MG	14	3240	1/1	0.92	0.21	83,83,83,83	0
58	MG	1H	3149	1/1	0.92	0.34	60,60,60,60	0
58	MG	1H	3355	1/1	0.92	0.20	48,48,48,48	0
58	MG	1H	3166	1/1	0.92	0.27	71,71,71,71	0
58	MG	1H	3150	1/1	0.92	0.23	72,72,72,72	0
58	MG	16	201	1/1	0.92	0.11	85,85,85,85	0
58	MG	1H	3239	1/1	0.92	0.21	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3028	1/1	0.92	0.28	68,68,68,68	0
58	MG	14	3119	1/1	0.92	0.37	62,62,62,62	0
58	MG	1H	3371	1/1	0.92	0.12	59,59,59,59	0
58	MG	1G	1629	1/1	0.92	0.63	104,104,104,104	0
58	MG	1H	3273	1/1	0.92	0.22	68,68,68,68	0
58	MG	1H	3387	1/1	0.92	0.07	80,80,80,80	0
58	MG	1G	1632	1/1	0.92	0.43	75,75,75,75	0
58	MG	1H	3244	1/1	0.92	0.28	62,62,62,62	0
58	MG	1G	1673	1/1	0.92	0.33	93,93,93,93	0
58	MG	14	3047	1/1	0.92	0.18	74,74,74,74	0
58	MG	45	202	1/1	0.92	0.41	72,72,72,72	0
58	MG	1H	3392	1/1	0.92	0.11	68,68,68,68	0
58	MG	1H	3214	1/1	0.92	0.63	76,76,76,76	0
58	MG	1H	3105	1/1	0.92	0.33	66,66,66,66	0
58	MG	1G	1688	1/1	0.93	0.07	138,138,138,138	0
58	MG	13	1660	1/1	0.93	0.24	103,103,103,103	0
58	MG	1H	3070	1/1	0.93	0.47	58,58,58,58	0
58	MG	1G	1644	1/1	0.93	0.67	92,92,92,92	0
58	MG	1H	3395	1/1	0.93	0.07	77,77,77,77	0
58	MG	1H	3407	1/1	0.93	0.12	116,116,116,116	0
58	MG	1H	3410	1/1	0.93	0.10	58,58,58,58	0
58	MG	13	1645	1/1	0.93	0.42	64,64,64,64	0
58	MG	13	1693	1/1	0.93	0.21	55,55,55,55	0
58	MG	14	3105	1/1	0.93	0.31	67,67,67,67	0
58	MG	14	3106	1/1	0.93	0.40	61,61,61,61	0
58	MG	1H	3225	1/1	0.93	0.35	78,78,78,78	0
58	MG	1G	1651	1/1	0.93	0.20	104,104,104,104	0
58	MG	1H	3107	1/1	0.93	0.28	71,71,71,71	0
58	MG	14	3326	1/1	0.93	0.09	90,90,90,90	0
58	MG	1H	3040	1/1	0.93	0.44	70,70,70,70	0
58	MG	1H	3111	1/1	0.93	0.53	74,74,74,74	0
58	MG	1H	3172	1/1	0.93	0.41	87,87,87,87	0
58	MG	1H	3145	1/1	0.93	0.14	73,73,73,73	0
58	MG	1G	1658	1/1	0.93	0.23	92,92,92,92	0
58	MG	1H	3116	1/1	0.93	0.44	55,55,55,55	0
58	MG	1G	1660	1/1	0.93	0.45	85,85,85,85	0
58	MG	1H	3274	1/1	0.93	0.18	59,59,59,59	0
58	MG	13	1713	1/1	0.93	0.05	101,101,101,101	0
58	MG	1H	3012	1/1	0.93	0.80	83,83,83,83	0
58	MG	1H	3447	1/1	0.93	0.04	86,86,86,86	0
58	MG	13	1607	1/1	0.93	0.19	116,116,116,116	0
58	MG	14	3208	1/1	0.93	0.15	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3141	1/1	0.93	0.21	93,93,93,93	0
58	MG	14	3142	1/1	0.93	0.41	76,76,76,76	0
58	MG	14	3383	1/1	0.93	0.12	86,86,86,86	0
58	MG	1H	3456	1/1	0.93	0.07	97,97,97,97	0
58	MG	14	3276	1/1	0.93	0.37	92,92,92,92	0
58	MG	14	3387	1/1	0.93	0.10	96,96,96,96	0
58	MG	14	3216	1/1	0.93	0.31	77,77,77,77	0
58	MG	1H	3243	1/1	0.93	0.50	65,65,65,65	0
58	MG	14	3219	1/1	0.93	0.31	48,48,48,48	0
58	MG	1H	3311	1/1	0.93	0.29	75,75,75,75	0
58	MG	13	1665	1/1	0.93	0.09	82,82,82,82	0
58	MG	1H	3343	1/1	0.93	0.15	54,54,54,54	0
58	MG	14	3396	1/1	0.93	0.06	108,108,108,108	0
58	MG	14	3054	1/1	0.93	0.37	70,70,70,70	0
58	MG	13	1724	1/1	0.93	0.09	102,102,102,102	0
58	MG	14	3225	1/1	0.93	0.41	82,82,82,82	0
58	MG	1H	3466	1/1	0.93	0.30	56,56,56,56	0
58	MG	1H	3211	1/1	0.93	0.24	83,83,83,83	0
58	MG	1G	1676	1/1	0.93	0.11	90,90,90,90	0
58	MG	14	3289	1/1	0.93	0.76	83,83,83,83	0
58	MG	14	3156	1/1	0.93	0.61	63,63,63,63	0
58	MG	1H	3127	1/1	0.93	0.14	59,59,59,59	0
58	MG	13	1725	1/1	0.93	0.08	94,94,94,94	0
58	MG	14	3162	1/1	0.93	0.54	70,70,70,70	0
58	MG	1H	3050	1/1	0.93	0.39	60,60,60,60	0
58	MG	14	3164	1/1	0.93	0.79	74,74,74,74	0
58	MG	1H	3056	1/1	0.93	0.50	56,56,56,56	0
58	MG	14	3166	1/1	0.93	0.21	60,60,60,60	0
58	MG	1H	3370	1/1	0.93	0.16	71,71,71,71	0
58	MG	13	1726	1/1	0.93	0.05	126,126,126,126	0
58	MG	1H	3064	1/1	0.93	0.32	65,65,65,65	0
58	MG	14	3077	1/1	0.93	0.45	68,68,68,68	0
58	MG	1H	3261	1/1	0.93	0.19	69,69,69,69	0
58	MG	1G	1624	1/1	0.94	0.62	65,65,65,65	0
58	MG	1G	1626	1/1	0.94	0.29	82,82,82,82	0
58	MG	14	3112	1/1	0.94	0.48	65,65,65,65	0
58	MG	14	3114	1/1	0.94	0.42	58,58,58,58	0
58	MG	1H	3098	1/1	0.94	0.24	53,53,53,53	0
58	MG	1H	3065	1/1	0.94	0.35	61,61,61,61	0
58	MG	14	3002	1/1	0.94	0.37	57,57,57,57	0
58	MG	14	3003	1/1	0.94	0.24	62,62,62,62	0
58	MG	13	1712	1/1	0.94	0.12	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3443	1/1	0.94	0.19	76,76,76,76	0
58	MG	13	1663	1/1	0.94	0.26	82,82,82,82	0
58	MG	14	3014	1/1	0.94	0.47	57,57,57,57	0
58	MG	1H	3208	1/1	0.94	0.51	88,88,88,88	0
58	MG	14	3132	1/1	0.94	0.27	68,68,68,68	0
58	MG	1H	3023	1/1	0.94	0.46	56,56,56,56	0
58	MG	14	3136	1/1	0.94	0.17	62,62,62,62	0
58	MG	1H	3449	1/1	0.94	0.12	106,106,106,106	0
58	MG	14	3020	1/1	0.94	0.47	75,75,75,75	0
58	MG	1H	3451	1/1	0.94	0.13	114,114,114,114	0
58	MG	1H	3106	1/1	0.94	0.41	63,63,63,63	0
58	MG	13	1664	1/1	0.94	0.12	89,89,89,89	0
58	MG	1H	3073	1/1	0.94	0.50	81,81,81,81	0
58	MG	1H	3458	1/1	0.94	0.07	73,73,73,73	0
58	MG	14	3315	1/1	0.94	1.07	93,93,93,93	0
58	MG	1H	3299	1/1	0.94	0.17	74,74,74,74	0
58	MG	14	3322	1/1	0.94	0.22	65,65,65,65	0
58	MG	14	3323	1/1	0.94	0.14	64,64,64,64	0
58	MG	1H	3300	1/1	0.94	0.42	87,87,87,87	0
58	MG	1H	3461	1/1	0.94	0.04	92,92,92,92	0
58	MG	14	3151	1/1	0.94	0.77	79,79,79,79	0
58	MG	1H	3110	1/1	0.94	0.51	55,55,55,55	0
58	MG	1H	3146	1/1	0.94	0.39	72,72,72,72	0
58	MG	13	1719	1/1	0.94	0.13	71,71,71,71	0
58	MG	1H	3266	1/1	0.94	0.25	81,81,81,81	0
58	MG	1H	3181	1/1	0.94	0.25	61,61,61,61	0
58	MG	14	3348	1/1	0.94	0.17	70,70,70,70	0
58	MG	14	3350	1/1	0.94	0.11	85,85,85,85	0
58	MG	14	3159	1/1	0.94	0.47	63,63,63,63	0
58	MG	1H	3361	1/1	0.94	0.13	63,63,63,63	0
58	MG	1H	3112	1/1	0.94	0.41	56,56,56,56	0
58	MG	1G	1652	1/1	0.94	0.54	71,71,71,71	0
58	MG	1H	3115	1/1	0.94	0.26	43,43,43,43	0
58	MG	1H	3014	1/1	0.94	0.33	70,70,70,70	0
58	MG	1H	3117	1/1	0.94	0.23	48,48,48,48	0
58	MG	14	3053	1/1	0.94	0.23	61,61,61,61	0
58	MG	13	1640	1/1	0.94	0.35	74,74,74,74	0
58	MG	13	1676	1/1	0.94	0.51	76,76,76,76	0
58	MG	1H	3189	1/1	0.94	0.57	67,67,67,67	0
58	MG	14	3057	1/1	0.94	0.27	101,101,101,101	0
58	MG	14	3385	1/1	0.94	0.07	116,116,116,116	0
58	MG	1H	3379	1/1	0.94	0.11	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3381	1/1	0.94	0.14	63,63,63,63	0
58	MG	1H	3275	1/1	0.94	0.37	75,75,75,75	0
58	MG	14	3390	1/1	0.94	0.10	89,89,89,89	0
58	MG	1H	3017	1/1	0.94	0.44	71,71,71,71	0
58	MG	14	3063	1/1	0.94	0.28	58,58,58,58	0
58	MG	1H	3229	1/1	0.94	0.27	48,48,48,48	0
58	MG	1H	3393	1/1	0.94	0.20	54,54,54,54	0
58	MG	14	3069	1/1	0.94	0.38	70,70,70,70	0
58	MG	1H	3123	1/1	0.94	0.39	69,69,69,69	0
58	MG	13	1683	1/1	0.94	0.23	94,94,94,94	0
58	MG	1H	3055	1/1	0.94	0.34	49,49,49,49	0
58	MG	13	1619	1/1	0.94	0.13	91,91,91,91	0
58	MG	1H	3091	1/1	0.94	0.46	65,65,65,65	0
58	MG	14	3082	1/1	0.94	0.47	61,61,61,61	0
58	MG	14	3189	1/1	0.94	0.33	82,82,82,82	0
58	MG	1H	3415	1/1	0.94	0.06	73,73,73,73	0
58	MG	1G	1607	1/1	0.94	0.34	73,73,73,73	0
58	MG	1H	3240	1/1	0.94	0.30	74,74,74,74	0
58	MG	1G	1611	1/1	0.94	0.38	104,104,104,104	0
58	MG	1G	1612	1/1	0.94	0.36	81,81,81,81	0
58	MG	1H	3061	1/1	0.94	0.30	48,48,48,48	0
58	MG	14	3198	1/1	0.94	0.18	107,107,107,107	0
58	MG	1H	3165	1/1	0.94	0.52	78,78,78,78	0
58	MG	1H	3420	1/1	0.94	0.06	92,92,92,92	0
58	MG	1H	3421	1/1	0.94	0.06	64,64,64,64	0
58	MG	13	1601	1/1	0.94	0.34	68,68,68,68	0
58	MG	1H	3037	1/1	0.94	0.46	121,121,121,121	0
58	MG	1H	3431	1/1	0.94	0.13	70,70,70,70	0
58	MG	1H	3436	1/1	0.94	0.17	73,73,73,73	0
58	MG	1H	3455	1/1	0.95	0.08	59,59,59,59	0
58	MG	13	1616	1/1	0.95	0.04	88,88,88,88	0
58	MG	1H	3223	1/1	0.95	0.52	78,78,78,78	0
58	MG	14	3016	1/1	0.95	0.40	61,61,61,61	0
58	MG	1H	3250	1/1	0.95	0.27	74,74,74,74	0
58	MG	14	3336	1/1	0.95	0.17	62,62,62,62	0
58	MG	14	3338	1/1	0.95	0.23	60,60,60,60	0
58	MG	1H	3048	1/1	0.95	0.30	56,56,56,56	0
58	MG	1H	3113	1/1	0.95	0.44	51,51,51,51	0
58	MG	1H	3394	1/1	0.95	0.20	53,53,53,53	0
58	MG	14	3346	1/1	0.95	0.09	85,85,85,85	0
58	MG	1H	3153	1/1	0.95	0.20	62,62,62,62	0
58	MG	1H	3049	1/1	0.95	0.50	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3256	1/1	0.95	0.17	61,61,61,61	0
58	MG	14	3351	1/1	0.95	0.12	85,85,85,85	0
58	MG	14	3087	1/1	0.95	0.35	40,40,40,40	0
58	MG	1H	3310	1/1	0.95	0.17	75,75,75,75	0
58	MG	14	3158	1/1	0.95	0.42	75,75,75,75	0
58	MG	14	3358	1/1	0.95	0.09	91,91,91,91	0
58	MG	13	1628	1/1	0.95	0.41	65,65,65,65	0
58	MG	14	3094	1/1	0.95	0.64	60,60,60,60	0
58	MG	14	3095	1/1	0.95	0.41	71,71,71,71	0
58	MG	13	1671	1/1	0.95	0.31	87,87,87,87	0
58	MG	14	3371	1/1	0.95	0.12	53,53,53,53	0
58	MG	1H	3230	1/1	0.95	0.41	43,43,43,43	0
58	MG	1H	3192	1/1	0.95	0.23	80,80,80,80	0
58	MG	14	3380	1/1	0.95	0.10	96,96,96,96	0
58	MG	1H	3005	1/1	0.95	0.34	54,54,54,54	0
58	MG	1H	3345	1/1	0.95	0.18	61,61,61,61	0
58	MG	16	208	1/1	0.95	0.16	86,86,86,86	0
58	MG	1H	3346	1/1	0.95	0.14	45,45,45,45	0
58	MG	1H	3058	1/1	0.95	0.43	46,46,46,46	0
58	MG	1G	1675	1/1	0.95	0.33	91,91,91,91	0
58	MG	14	3388	1/1	0.95	0.10	68,68,68,68	0
58	MG	14	3173	1/1	0.95	0.30	66,66,66,66	0
58	MG	14	3174	1/1	0.95	0.27	101,101,101,101	0
58	MG	14	3110	1/1	0.95	0.37	57,57,57,57	0
58	MG	1H	3235	1/1	0.95	0.16	53,53,53,53	0
58	MG	1H	3428	1/1	0.95	0.19	51,51,51,51	0
58	MG	1H	3357	1/1	0.95	0.23	71,71,71,71	0
58	MG	1H	3432	1/1	0.95	0.11	50,50,50,50	0
58	MG	14	3051	1/1	0.95	0.11	81,81,81,81	0
58	MG	1H	3236	1/1	0.95	0.18	99,99,99,99	0
58	MG	1H	3237	1/1	0.95	0.28	84,84,84,84	0
58	MG	14	3121	1/1	0.95	0.48	78,78,78,78	0
58	MG	1H	3007	1/1	0.95	0.34	54,54,54,54	0
58	MG	14	3124	1/1	0.95	0.40	54,54,54,54	0
58	MG	1H	3084	1/1	0.95	0.20	94,94,94,94	0
58	MG	13	1633	1/1	0.95	0.63	62,62,62,62	0
58	MG	1H	3444	1/1	0.95	0.16	69,69,69,69	0
58	MG	1H	3218	1/1	0.95	0.25	56,56,56,56	0
58	MG	1H	3011	1/1	0.95	0.38	51,51,51,51	0
58	MG	14	3133	1/1	0.95	0.19	107,107,107,107	0
58	MG	14	3134	1/1	0.95	0.28	74,74,74,74	0
58	MG	1H	3375	1/1	0.95	0.29	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1673	1/1	0.95	0.53	70,70,70,70	0
58	MG	14	3137	1/1	0.95	0.09	57,57,57,57	0
58	MG	1H	3377	1/1	0.95	0.13	70,70,70,70	0
58	MG	14	3066	1/1	0.95	0.41	62,62,62,62	0
58	MG	14	3317	1/1	0.95	0.70	89,89,89,89	0
58	MG	14	3319	1/1	0.95	0.10	59,59,59,59	0
58	MG	13	1643	1/1	0.95	0.11	99,99,99,99	0
60	ZN	C5	201	1/1	0.95	0.07	165,165,165,165	0
58	MG	1H	3183	1/1	0.96	0.52	67,67,67,67	0
58	MG	1G	1617	1/1	0.96	0.14	135,135,135,135	0
58	MG	1H	3121	1/1	0.96	0.38	62,62,62,62	0
58	MG	1H	3090	1/1	0.96	0.36	71,71,71,71	0
58	MG	13	1714	1/1	0.96	0.10	73,73,73,73	0
58	MG	13	1658	1/1	0.96	0.24	83,83,83,83	0
58	MG	14	3078	1/1	0.96	0.38	64,64,64,64	0
58	MG	1G	1683	1/1	0.96	0.13	89,89,89,89	0
58	MG	14	3321	1/1	0.96	0.09	78,78,78,78	0
58	MG	2K	101	1/1	0.96	0.36	68,68,68,68	0
58	MG	14	3083	1/1	0.96	0.63	72,72,72,72	0
58	MG	14	3167	1/1	0.96	0.29	87,87,87,87	0
58	MG	1G	1625	1/1	0.96	0.32	93,93,93,93	0
58	MG	13	1666	1/1	0.96	0.13	78,78,78,78	0
58	MG	14	3328	1/1	0.96	0.06	74,74,74,74	0
58	MG	14	3330	1/1	0.96	0.14	77,77,77,77	0
58	MG	1G	1627	1/1	0.96	0.22	94,94,94,94	0
58	MG	13	1615	1/1	0.96	0.40	77,77,77,77	0
58	MG	1H	3454	1/1	0.96	0.07	96,96,96,96	0
58	MG	1H	3260	1/1	0.96	0.37	72,72,72,72	0
58	MG	14	3093	1/1	0.96	0.42	42,42,42,42	0
58	MG	1H	3382	1/1	0.96	0.06	77,77,77,77	0
58	MG	1H	3129	1/1	0.96	0.52	85,85,85,85	0
58	MG	1H	3067	1/1	0.96	0.32	55,55,55,55	0
58	MG	14	3008	1/1	0.96	0.36	65,65,65,65	0
58	MG	14	3349	1/1	0.96	0.15	83,83,83,83	0
58	MG	1H	3389	1/1	0.96	0.10	38,38,38,38	0
58	MG	14	3101	1/1	0.96	0.43	64,64,64,64	0
58	MG	1H	3391	1/1	0.96	0.09	61,61,61,61	0
58	MG	1H	3295	1/1	0.96	0.46	93,93,93,93	0
58	MG	14	3015	1/1	0.96	0.44	49,49,49,49	0
58	MG	13	1722	1/1	0.96	0.08	103,103,103,103	0
58	MG	14	3360	1/1	0.96	0.06	83,83,83,83	0
58	MG	13	1723	1/1	0.96	0.10	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1610	1/1	0.96	0.25	80,80,80,80	0
58	MG	1H	3397	1/1	0.96	0.07	71,71,71,71	0
58	MG	1H	3399	1/1	0.96	0.15	62,62,62,62	0
58	MG	14	3366	1/1	0.96	0.04	86,86,86,86	0
58	MG	14	3368	1/1	0.96	0.21	62,62,62,62	0
58	MG	14	3369	1/1	0.96	0.12	59,59,59,59	0
58	MG	1H	3405	1/1	0.96	0.09	63,63,63,63	0
58	MG	1H	3406	1/1	0.96	0.07	76,76,76,76	0
58	MG	14	3376	1/1	0.96	0.07	94,94,94,94	0
58	MG	14	3377	1/1	0.96	0.20	52,52,52,52	0
58	MG	13	1618	1/1	0.96	0.36	80,80,80,80	0
58	MG	1H	3025	1/1	0.96	0.40	64,64,64,64	0
58	MG	1H	3412	1/1	0.96	0.10	78,78,78,78	0
58	MG	14	3382	1/1	0.96	0.07	87,87,87,87	0
58	MG	1H	3231	1/1	0.96	0.20	58,58,58,58	0
58	MG	14	3120	1/1	0.96	0.38	82,82,82,82	0
58	MG	1H	3046	1/1	0.96	0.32	47,47,47,47	0
58	MG	21	301	1/1	0.96	0.38	54,54,54,54	0
58	MG	14	3123	1/1	0.96	0.30	64,64,64,64	0
58	MG	13	1649	1/1	0.96	0.37	72,72,72,72	0
58	MG	1H	3081	1/1	0.96	0.39	87,87,87,87	0
58	MG	1H	3082	1/1	0.96	0.26	78,78,78,78	0
58	MG	1H	3174	1/1	0.96	0.36	88,88,88,88	0
58	MG	14	3206	1/1	0.96	0.09	80,80,80,80	0
58	MG	13	1727	1/1	0.96	0.08	112,112,112,112	0
58	MG	14	3209	1/1	0.96	0.24	66,66,66,66	0
58	MG	1H	3114	1/1	0.96	0.54	74,74,74,74	0
58	MG	I8	103	1/1	0.96	0.04	73,73,73,73	0
58	MG	14	3213	1/1	0.96	0.36	64,64,64,64	0
58	MG	14	3214	1/1	0.96	0.34	88,88,88,88	0
58	MG	13	1690	1/1	0.96	0.13	74,74,74,74	0
58	MG	14	3039	1/1	0.96	0.23	50,50,50,50	0
58	MG	1H	3423	1/1	0.96	0.10	66,66,66,66	0
58	MG	13	1711	1/1	0.96	0.11	97,97,97,97	0
58	MG	13	1730	1/1	0.96	0.17	86,86,86,86	0
58	MG	1H	3429	1/1	0.96	0.12	71,71,71,71	0
58	MG	1H	3430	1/1	0.96	0.17	49,49,49,49	0
58	MG	1H	3354	1/1	0.96	0.13	49,49,49,49	0
58	MG	1G	1605	1/1	0.96	0.38	101,101,101,101	0
58	MG	1H	3312	1/1	0.96	0.24	67,67,67,67	0
58	MG	1H	3433	1/1	0.96	0.17	87,87,87,87	0
58	MG	1H	3434	1/1	0.96	0.08	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1G	1610	1/1	0.96	0.31	98,98,98,98	0
58	MG	1H	3212	1/1	0.96	0.43	76,76,76,76	0
58	MG	13	1612	1/1	0.96	0.33	63,63,63,63	0
58	MG	13	1614	1/1	0.96	0.20	78,78,78,78	0
58	MG	1H	3120	1/1	0.96	0.34	74,74,74,74	0
58	MG	1H	3442	1/1	0.96	0.08	69,69,69,69	0
58	MG	14	3235	1/1	0.96	0.66	72,72,72,72	0
58	MG	14	3038	1/1	0.97	0.33	71,71,71,71	0
58	MG	13	1701	1/1	0.97	0.14	114,114,114,114	0
58	MG	1G	1601	1/1	0.97	0.29	91,91,91,91	0
58	MG	14	3226	1/1	0.97	0.41	73,73,73,73	0
58	MG	13	1613	1/1	0.97	0.22	81,81,81,81	0
58	MG	1H	3257	1/1	0.97	0.30	70,70,70,70	0
58	MG	1H	3195	1/1	0.97	0.50	62,62,62,62	0
58	MG	1H	3259	1/1	0.97	0.48	79,79,79,79	0
58	MG	1H	3057	1/1	0.97	0.41	66,66,66,66	0
58	MG	14	3318	1/1	0.97	0.24	64,64,64,64	0
58	MG	13	1684	1/1	0.97	0.14	128,128,128,128	0
58	MG	1H	3440	1/1	0.97	0.05	58,58,58,58	0
58	MG	1H	3380	1/1	0.97	0.11	59,59,59,59	0
58	MG	13	1667	1/1	0.97	0.47	71,71,71,71	0
58	MG	1H	3086	1/1	0.97	0.37	70,70,70,70	0
58	MG	1H	3384	1/1	0.97	0.06	58,58,58,58	0
58	MG	14	3152	1/1	0.97	0.33	92,92,92,92	0
58	MG	1H	3062	1/1	0.97	0.20	64,64,64,64	0
58	MG	14	3062	1/1	0.97	0.17	68,68,68,68	0
58	MG	14	3332	1/1	0.97	0.10	53,53,53,53	0
58	MG	1H	3330	1/1	0.97	0.34	102,102,102,102	0
58	MG	14	3334	1/1	0.97	0.05	64,64,64,64	0
58	MG	14	3335	1/1	0.97	0.09	61,61,61,61	0
58	MG	14	3064	1/1	0.97	0.19	78,78,78,78	0
58	MG	14	3065	1/1	0.97	0.32	67,67,67,67	0
58	MG	13	1717	1/1	0.97	0.08	92,92,92,92	0
58	MG	14	3341	1/1	0.97	0.08	68,68,68,68	0
58	MG	1H	3448	1/1	0.97	0.08	82,82,82,82	0
58	MG	14	3344	1/1	0.97	0.15	81,81,81,81	0
58	MG	1H	3202	1/1	0.97	0.82	70,70,70,70	0
58	MG	14	3161	1/1	0.97	0.52	70,70,70,70	0
58	MG	1H	3450	1/1	0.97	0.10	54,54,54,54	0
58	MG	14	3070	1/1	0.97	0.51	60,60,60,60	0
58	MG	14	3072	1/1	0.97	0.22	45,45,45,45	0
58	MG	13	1718	1/1	0.97	0.04	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1G	1621	1/1	0.97	0.12	92,92,92,92	0
58	MG	14	3075	1/1	0.97	0.29	68,68,68,68	0
58	MG	14	3254	1/1	0.97	0.19	111,111,111,111	0
58	MG	1G	1682	1/1	0.97	0.13	97,97,97,97	0
58	MG	1H	3148	1/1	0.97	0.24	50,50,50,50	0
58	MG	14	3359	1/1	0.97	0.06	79,79,79,79	0
58	MG	13	1732	1/1	0.97	0.20	65,65,65,65	0
58	MG	1G	1685	1/1	0.97	0.09	87,87,87,87	0
58	MG	1H	3010	1/1	0.97	0.36	63,63,63,63	0
58	MG	1H	3396	1/1	0.97	0.10	78,78,78,78	0
58	MG	1H	3026	1/1	0.97	0.47	56,56,56,56	0
58	MG	1H	3398	1/1	0.97	0.16	66,66,66,66	0
58	MG	14	3367	1/1	0.97	0.09	65,65,65,65	0
58	MG	1G	1690	1/1	0.97	0.16	93,93,93,93	0
58	MG	1H	3068	1/1	0.97	0.28	86,86,86,86	0
58	MG	14	3370	1/1	0.97	0.10	64,64,64,64	0
58	MG	14	3088	1/1	0.97	0.45	52,52,52,52	0
58	MG	1H	3401	1/1	0.97	0.18	69,69,69,69	0
58	MG	14	3001	1/1	0.97	0.16	46,46,46,46	0
58	MG	1H	3403	1/1	0.97	0.14	76,76,76,76	0
58	MG	1H	3462	1/1	0.97	0.04	97,97,97,97	0
58	MG	14	3379	1/1	0.97	0.12	60,60,60,60	0
58	MG	14	3270	1/1	0.97	0.30	63,63,63,63	0
58	MG	14	3004	1/1	0.97	0.37	67,67,67,67	0
58	MG	14	3005	1/1	0.97	0.45	48,48,48,48	0
58	MG	14	3098	1/1	0.97	0.17	93,93,93,93	0
58	MG	14	3006	1/1	0.97	0.63	56,56,56,56	0
58	MG	1H	3404	1/1	0.97	0.13	48,48,48,48	0
58	MG	1H	3069	1/1	0.97	0.42	90,90,90,90	0
58	MG	14	3103	1/1	0.97	0.28	51,51,51,51	0
58	MG	1H	3465	1/1	0.97	0.15	71,71,71,71	0
58	MG	1H	3210	1/1	0.97	0.47	71,71,71,71	0
58	MG	14	3192	1/1	0.97	0.51	63,63,63,63	0
58	MG	13	1622	1/1	0.97	0.37	74,74,74,74	0
58	MG	1H	3408	1/1	0.97	0.12	82,82,82,82	0
58	MG	1H	3409	1/1	0.97	0.07	85,85,85,85	0
58	MG	14	3196	1/1	0.97	0.55	75,75,75,75	0
58	MG	13	1635	1/1	0.97	0.52	74,74,74,74	0
58	MG	1H	3030	1/1	0.97	0.22	67,67,67,67	0
58	MG	1G	1642	1/1	0.97	0.48	91,91,91,91	0
58	MG	14	3398	1/1	0.97	0.07	108,108,108,108	0
58	MG	1H	3103	1/1	0.97	0.28	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	16	206	1/1	0.97	0.05	73,73,73,73	0
58	MG	1H	3347	1/1	0.97	0.28	51,51,51,51	0
58	MG	14	3116	1/1	0.97	0.20	64,64,64,64	0
58	MG	1H	3350	1/1	0.97	0.12	48,48,48,48	0
58	MG	1H	3416	1/1	0.97	0.08	69,69,69,69	0
58	MG	1H	3245	1/1	0.97	0.70	62,62,62,62	0
58	MG	13	1648	1/1	0.97	0.50	95,95,95,95	0
58	MG	14	3210	1/1	0.97	0.17	80,80,80,80	0
58	MG	1H	3075	1/1	0.97	0.48	43,43,43,43	0
58	MG	1H	3356	1/1	0.97	0.17	42,42,42,42	0
58	MG	88	201	1/1	0.97	0.21	81,81,81,81	0
58	MG	13	1642	1/1	0.97	0.27	74,74,74,74	0
58	MG	1H	3358	1/1	0.97	0.14	45,45,45,45	0
58	MG	1H	3359	1/1	0.97	0.12	59,59,59,59	0
58	MG	13	1609	1/1	0.97	0.37	75,75,75,75	0
58	MG	1H	3133	1/1	0.97	0.34	71,71,71,71	0
58	MG	1H	3163	1/1	0.97	0.35	50,50,50,50	0
58	MG	14	3036	1/1	0.97	0.74	96,96,96,96	0
58	MG	13	1617	1/1	0.97	0.24	83,83,83,83	0
58	MG	1H	3077	1/1	0.98	0.23	60,60,60,60	0
58	MG	14	3337	1/1	0.98	0.06	66,66,66,66	0
58	MG	1H	3008	1/1	0.98	0.26	81,81,81,81	0
58	MG	1H	3385	1/1	0.98	0.20	47,47,47,47	0
58	MG	1H	3386	1/1	0.98	0.11	57,57,57,57	0
58	MG	14	3342	1/1	0.98	0.07	80,80,80,80	0
58	MG	1H	3001	1/1	0.98	0.32	43,43,43,43	0
58	MG	13	1716	1/1	0.98	0.07	76,76,76,76	0
58	MG	1H	3344	1/1	0.98	0.13	58,58,58,58	0
58	MG	1H	3437	1/1	0.98	0.09	58,58,58,58	0
58	MG	14	3127	1/1	0.98	0.27	69,69,69,69	0
58	MG	1H	3390	1/1	0.98	0.09	50,50,50,50	0
58	MG	14	3130	1/1	0.98	0.53	86,86,86,86	0
58	MG	1H	3289	1/1	0.98	0.17	49,49,49,49	0
58	MG	1H	3029	1/1	0.98	0.35	42,42,42,42	0
58	MG	14	3202	1/1	0.98	0.31	63,63,63,63	0
58	MG	1H	3143	1/1	0.98	0.14	56,56,56,56	0
58	MG	1H	3348	1/1	0.98	0.19	50,50,50,50	0
58	MG	14	3356	1/1	0.98	0.17	58,58,58,58	0
58	MG	1H	3349	1/1	0.98	0.18	64,64,64,64	0
58	MG	1H	3102	1/1	0.98	0.39	35,35,35,35	0
58	MG	14	3207	1/1	0.98	0.37	80,80,80,80	0
58	MG	14	3361	1/1	0.98	0.15	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3191	1/1	0.98	0.50	90,90,90,90	0
58	MG	14	3139	1/1	0.98	0.34	99,99,99,99	0
58	MG	14	3009	1/1	0.98	0.46	52,52,52,52	0
58	MG	14	3010	1/1	0.98	0.48	41,41,41,41	0
58	MG	14	3071	1/1	0.98	0.58	68,68,68,68	0
58	MG	14	3011	1/1	0.98	0.59	48,48,48,48	0
58	MG	13	1721	1/1	0.98	0.12	66,66,66,66	0
58	MG	14	3145	1/1	0.98	0.32	65,65,65,65	0
58	MG	1H	3241	1/1	0.98	0.35	66,66,66,66	0
58	MG	1H	3400	1/1	0.98	0.11	72,72,72,72	0
58	MG	14	3372	1/1	0.98	0.09	70,70,70,70	0
58	MG	14	3373	1/1	0.98	0.19	61,61,61,61	0
58	MG	14	3218	1/1	0.98	0.56	62,62,62,62	0
58	MG	14	3375	1/1	0.98	0.07	97,97,97,97	0
58	MG	1H	3169	1/1	0.98	0.21	85,85,85,85	0
58	MG	1H	3402	1/1	0.98	0.15	51,51,51,51	0
58	MG	1H	3051	1/1	0.98	0.35	45,45,45,45	0
58	MG	14	3079	1/1	0.98	0.46	70,70,70,70	0
58	MG	1H	3124	1/1	0.98	0.36	46,46,46,46	0
58	MG	14	3081	1/1	0.98	0.32	76,76,76,76	0
58	MG	1H	3453	1/1	0.98	0.10	84,84,84,84	0
58	MG	1H	3052	1/1	0.98	0.33	53,53,53,53	0
58	MG	1H	3360	1/1	0.98	0.10	61,61,61,61	0
58	MG	13	1602	1/1	0.98	0.28	86,86,86,86	0
58	MG	1H	3013	1/1	0.98	0.29	82,82,82,82	0
58	MG	13	1674	1/1	0.98	0.09	91,91,91,91	0
58	MG	1H	3365	1/1	0.98	0.14	74,74,74,74	0
58	MG	1H	3366	1/1	0.98	0.14	76,76,76,76	0
58	MG	1H	3109	1/1	0.98	0.30	47,47,47,47	0
58	MG	14	3092	1/1	0.98	0.32	76,76,76,76	0
58	MG	1G	1669	1/1	0.98	0.36	107,107,107,107	0
58	MG	1H	3006	1/1	0.98	0.36	46,46,46,46	0
58	MG	1H	3369	1/1	0.98	0.18	49,49,49,49	0
58	MG	1H	3060	1/1	0.98	0.40	61,61,61,61	0
58	MG	1H	3074	1/1	0.98	0.29	64,64,64,64	0
58	MG	1H	3373	1/1	0.98	0.12	51,51,51,51	0
58	MG	1H	3374	1/1	0.98	0.16	53,53,53,53	0
58	MG	13	1611	1/1	0.98	0.24	72,72,72,72	0
58	MG	14	3102	1/1	0.98	0.26	61,61,61,61	0
58	MG	1H	3255	1/1	0.98	0.39	73,73,73,73	0
58	MG	1H	3134	1/1	0.98	0.08	69,69,69,69	0
58	MG	1H	3093	1/1	0.98	0.36	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1H	3424	1/1	0.98	0.10	48,48,48,48	0
58	MG	14	3040	1/1	0.98	0.35	59,59,59,59	0
58	MG	14	3041	1/1	0.98	0.35	54,54,54,54	0
58	MG	29	303	1/1	0.98	0.40	52,52,52,52	0
58	MG	14	3043	1/1	0.98	0.38	57,57,57,57	0
58	MG	14	3044	1/1	0.98	0.51	64,64,64,64	0
58	MG	14	3046	1/1	0.98	0.28	66,66,66,66	0
58	MG	1H	3425	1/1	0.98	0.12	63,63,63,63	0
58	MG	14	3327	1/1	0.98	0.16	59,59,59,59	0
58	MG	14	3113	1/1	0.98	0.41	73,73,73,73	0
58	MG	14	3048	1/1	0.98	0.29	90,90,90,90	0
58	MG	14	3331	1/1	0.98	0.14	63,63,63,63	0
58	MG	1H	3076	1/1	0.98	0.41	65,65,65,65	0
58	MG	14	3050	1/1	0.98	0.51	59,59,59,59	0
59	SF4	3E	301	8/8	0.98	0.17	86,99,103,105	0
58	MG	1H	3427	1/1	0.98	0.07	72,72,72,72	0
60	ZN	5A	101	1/1	0.98	0.08	142,142,142,142	0
58	MG	1H	3339	1/1	0.98	0.43	48,48,48,48	0
58	MG	14	3354	1/1	0.99	0.10	70,70,70,70	0
58	MG	1H	3054	1/1	0.99	0.24	52,52,52,52	0
58	MG	1H	3059	1/1	0.99	0.24	49,49,49,49	0
58	MG	14	3357	1/1	0.99	0.22	76,76,76,76	0
58	MG	1H	3372	1/1	0.99	0.11	62,62,62,62	0
58	MG	13	1638	1/1	0.99	0.26	59,59,59,59	0
58	MG	14	3128	1/1	0.99	0.45	58,58,58,58	0
58	MG	1H	3147	1/1	0.99	0.31	64,64,64,64	0
58	MG	14	3298	1/1	0.99	0.90	64,64,64,64	0
58	MG	14	3329	1/1	0.99	0.17	56,56,56,56	0
58	MG	1H	3248	1/1	0.99	0.50	74,74,74,74	0
58	MG	1H	3138	1/1	0.99	0.41	58,58,58,58	0
58	MG	1H	3411	1/1	0.99	0.12	69,69,69,69	0
58	MG	13	1709	1/1	0.99	0.07	92,92,92,92	0
58	MG	1H	3378	1/1	0.99	0.16	53,53,53,53	0
58	MG	1H	3363	1/1	0.99	0.06	68,68,68,68	0
58	MG	1H	3099	1/1	0.99	0.20	55,55,55,55	0
58	MG	1H	3351	1/1	0.99	0.08	46,46,46,46	0
58	MG	14	3138	1/1	0.99	0.32	45,45,45,45	0
58	MG	14	3339	1/1	0.99	0.11	82,82,82,82	0
58	MG	1G	1623	1/1	0.99	0.50	62,62,62,62	0
58	MG	1H	3435	1/1	0.99	0.13	56,56,56,56	0
58	MG	1H	3352	1/1	0.99	0.12	61,61,61,61	0
58	MG	1H	3383	1/1	0.99	0.17	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3092	1/1	0.99	0.26	49,49,49,49	0
58	MG	14	3042	1/1	0.99	0.54	70,70,70,70	0
58	MG	14	3091	1/1	0.99	0.43	86,86,86,86	0
58	MG	1H	3053	1/1	0.99	0.34	50,50,50,50	0
58	MG	2L	101	1/1	0.99	0.56	73,73,73,73	0
58	MG	14	3045	1/1	0.99	0.33	58,58,58,58	0
58	MG	1G	1608	1/1	0.99	0.18	89,89,89,89	0
59	SF4	32	301	8/8	0.99	0.15	115,123,133,136	0
60	ZN	5I	101	1/1	0.99	0.13	102,102,102,102	0
58	MG	1H	3094	1/1	0.99	0.37	64,64,64,64	0
58	MG	14	3320	1/1	0.99	0.18	64,64,64,64	0
58	MG	14	3097	1/1	0.99	0.22	65,65,65,65	0

6.5 Other polymers [i](#)

There are no such residues in this entry.