



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 2, 2024 – 11:20 pm GMT

PDB ID : 4WSD
Title : Complex of 70S ribosome with tRNA-Phe and mRNA with C-A mismatch in the second position in the A-site and with antibiotic paromomycin.
Authors : Rozov, A.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on : 2014-10-27
Resolution : 2.95 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

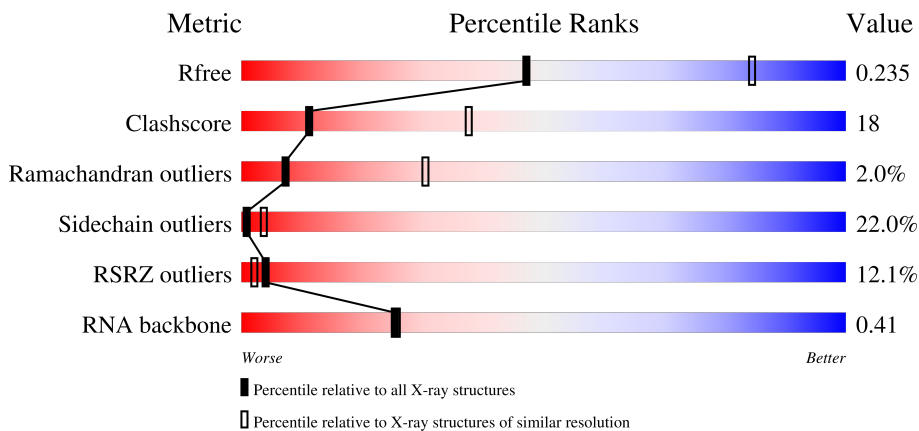
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.95 Å.

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



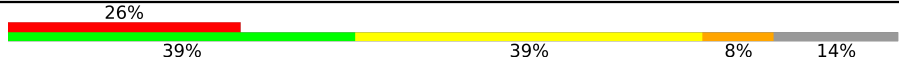

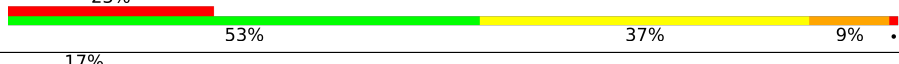
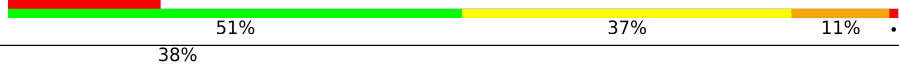

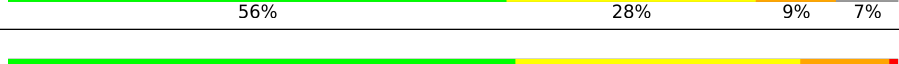
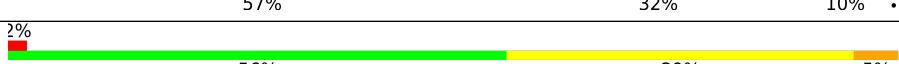
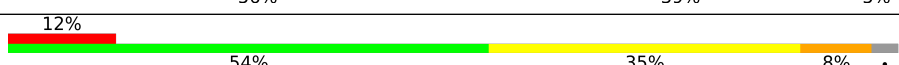
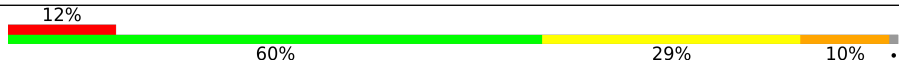



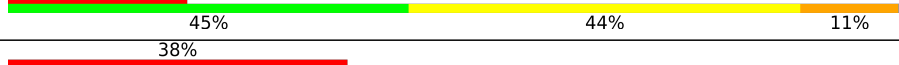





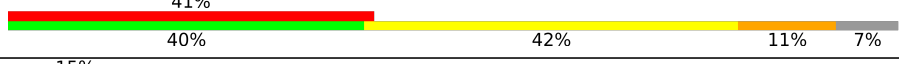






Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3104 (3.00-2.92)
Clashscore	141614	3462 (3.00-2.92)
Ramachandran outliers	138981	3340 (3.00-2.92)
Sidechain outliers	138945	3343 (3.00-2.92)
RSRZ outliers	127900	2986 (3.00-2.92)
RNA backbone	3102	1065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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	
1	1G	1522	
2	12	256	
2	1E	256	

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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	

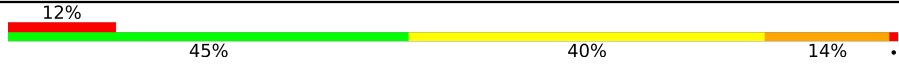


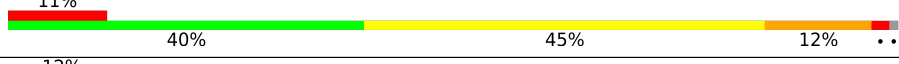


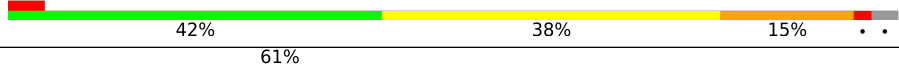

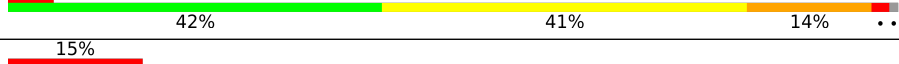



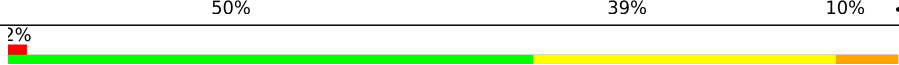
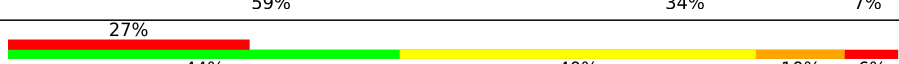
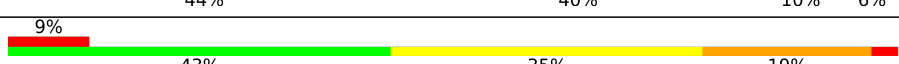
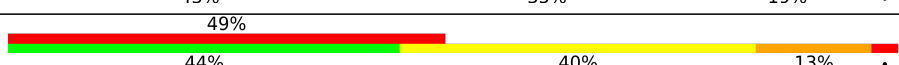

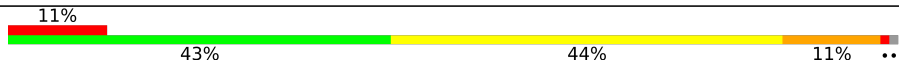
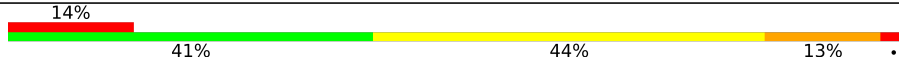


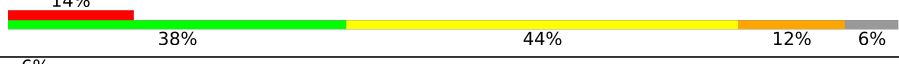



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Mol	Chain	Length	Quality of chain
15	6I	89	11% 62% 29% 8%
16	7A	88	39% 49% 43% 5%
16	7I	88	48% 38% 48% 10% 5%
17	8A	105	39% 60% 30% 6% 5%
17	8I	105	21% 55% 30% 10% 5%
18	9A	88	6% 50% 28% 18%
18	9I	88	44% 33% 5% 18%
19	AA	93	31% 31% 38% 15% 16%
19	AI	93	10% 42% 29% 15% 13%
20	BA	106	40% 51% 35% 7% 7%
20	BI	106	17% 46% 37% 10% 7%
21	1B	27	81% 33% 52% 7% 7%
21	1F	27	56% 63% 26% 7%
22	1K	76	14% 25% 46% 22% 7%
23	2K	77	3% 30% 38% 26% 6%
23	2L	77	3% 31% 45% 16% 8%
24	3K	76	5% 17% 38% 34% 9%
25	4K	30	7% 17% 20% 7% 57%
25	4L	30	3% 10% 13% 7% 7% 63%
26	14	2917	2% 27% 44% 23% 5%
26	1H	2917	% 21% 43% 29% 7%
27	16	122	31% 37% 25% 7%
27	1J	122	2% 26% 43% 26% 5%
28	11	276	4% 58% 31% 10%
28	19	276	19% 55% 33% 8%

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Mol	Chain	Length	Quality of chain
29	21	206	
29	29	206	
30	31	210	
30	39	210	
31	41	182	
31	49	182	
32	51	180	
32	59	180	
33	61	148	
33	69	148	
34	15	140	
34	58	140	
35	25	122	
35	68	122	
36	35	150	
36	78	150	
37	45	141	
37	88	141	
38	55	118	
38	98	118	
39	65	112	
39	A8	112	
40	75	146	
40	B8	146	
41	85	118	

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Mol	Chain	Length	Quality of chain
41	C8	118	15% 42% 47% 10%
42	95	101	22% 39% 45% 14%
42	D8	101	12% 51% 42% 7%
43	A5	113	12% 53% 34% 13%
43	E8	113	9% 52% 37% 10%
44	B5	96	11% 47% 44% 6%
44	F8	96	3% 53% 33% 9%
45	C5	110	25% 39% 36% 18% 5%
45	G8	110	3% 36% 41% 14% 5%
46	D5	206	21% 32% 46% 8% 13%
46	H8	206	2% 33% 39% 11% 15%
47	E5	85	42% 51% 32% 8% 9%
47	I8	85	15% 53% 32% 9% 6%
48	F5	98	40% 51% 35% 8%
48	J8	98	21% 52% 34% 11%
49	G5	72	10% 50% 28% 12% 7%
49	K8	72	3% 24% 47% 18% 7%
50	H5	60	28% 52% 42% 5%
50	L8	60	2% 43% 37% 13% 5%
51	I5	71	17% 21% 55% 7% 15%
51	M8	71	18% 41% 31% 20% 7%
52	J5	60	12% 53% 35% 10%
52	N8	60	13% 57% 23% 15%
53	K5	54	78% 37% 26% 20% 17%
53	O8	54	69% 24% 33% 22% 17%

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Mol	Chain	Length	Quality of chain
54	L5	49	
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	1710	-	-	-	X
58	MG	14	3143	-	-	-	X
58	MG	14	3158	-	-	-	X
58	MG	14	3193	-	-	-	X
58	MG	1H	3020	-	-	-	X
58	MG	1H	3056	-	-	-	X
58	MG	1H	3162	-	-	-	X
58	MG	1H	3247	-	-	-	X
58	MG	1H	3254	-	-	-	X
58	MG	1H	3262	-	-	-	X
58	MG	1H	3310	-	-	-	X
58	MG	1H	3334	-	-	-	X
58	MG	1H	3337	-	-	-	X

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 300252 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	13	1498	Total 32207	C 14334	N 5973	O 10402	P 1498	0	0	0
1	1G	1498	Total 32204	C 14334	N 5973	O 10400	P 1497	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	1E	237	Total 1924	C 1228	N 344	O 347	S 5	0	0	0
2	12	237	Total 1924	C 1228	N 344	O 347	S 5	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	206	Total 1612	C 1016	N 314	O 281	S 1	0	0	0

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	4E	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			
5	42	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	6E	155	Total	C	N	O	S	0	0	0
			1256	781	252	217	6			
7	62	152	Total	C	N	O	S	0	0	0
			1243	774	249	214	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	7E	138	Total	C	N	O	S	0	0	0
			1115	705	215	192	3			
8	72	138	Total	C	N	O	S	0	0	0
			1115	705	215	192	3			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	8E	127	Total	C	N	O	0	0	0
			1009	639	197	173			
9	82	124	Total	C	N	O	0	0	0
			983	624	190	169			

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

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

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

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

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

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

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

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

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

There are 2 discrepancies between the modelled and reference sequences:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
22	1K	76	Total	C	N	O	P	S	0	0	0
			1627	730	290	530	75	2			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
24	3K	75	Total	C	N	O	P	S	0	0	0
			1603	719	285	524	74	1			

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
25	4K	13	Total	C	N	O	P	0	0	0
			279	126	55	85	13			
25	4L	11	Total	C	N	O	P	0	0	0
			235	106	45	73	11			

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

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

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

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

- Molecule 28 is a protein called 50S ribosomal protein L2.

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
32	51	174	1336	848	251	236	1	0	0	0
32	59	170	1307	829	245	232	1	0	0	0

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
34	58	138	1104	712	206	182	4	0	0	0
34	15	138	1104	712	206	182	4	0	0	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	F8	94	Total	C	N	O	S	0	0	0
			742	482	134	125	1			
44	B5	94	Total	C	N	O		0	0	0
			735	477	133	125				

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	I8	80	Total	C	N	O	S	0	0	0
			626	388	132	105	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
47	E5	77	612	379	129	103	1	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
48	J8	97	762	481	150	130	1	0	0	0
48	F5	94	737	463	146	127	1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
49	K8	67	563	349	114	99	1	0	0	0
49	G5	67	563	349	114	99	1	0	0	0

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
51	M8	66	533	335	96	97	5	0	0	0
51	I5	60	481	305	84	87	5	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	N8	58	Total	C	N	O	S	0	0	0
			453	285	89	74	5			
52	J5	59	Total	C	N	O	S	0	0	0
			458	288	90	75	5			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	Q8	60	Total	C	N	O	S	0	0	0
			480	306	98	74	2			
55	M5	60	Total	C	N	O	S	0	0	0
			477	303	98	74	2			

- Molecule 56 is a RNA chain called tRNA-Phe.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
56	1L	76	Total	C	N	O	P	S	0	0	0
			1627	730	290	531	75	1			

- Molecule 57 is a RNA chain called tRNA-Phe.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
57	3L	76	Total	C	N	O	P	S	0	0	0
			1624	725	290	532	76	1			

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

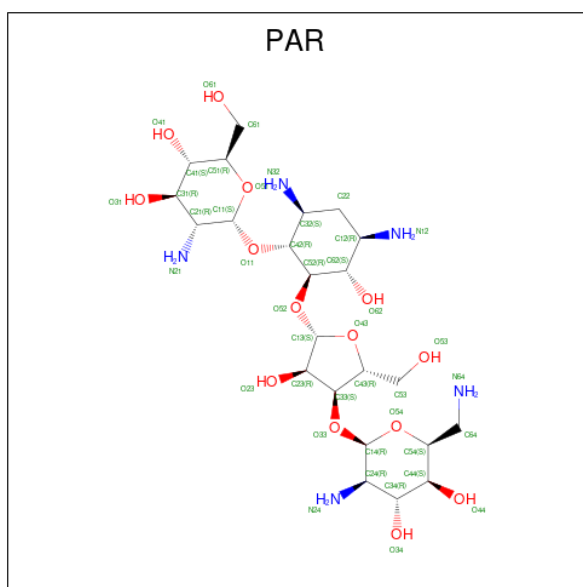
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	13	148	Total Mg 148 148	0	0
58	3E	2	Total Mg 2 2	0	0
58	5E	1	Total Mg 1 1	0	0
58	2I	1	Total Mg 1 1	0	0
58	5I	2	Total Mg 2 2	0	0
58	1K	2	Total Mg 2 2	0	0
58	2K	5	Total Mg 5 5	0	0
58	3K	1	Total Mg 1 1	0	0
58	4K	1	Total Mg 1 1	0	0
58	1H	520	Total Mg 520 520	0	0
58	16	13	Total Mg 13 13	0	0
58	11	4	Total Mg 4 4	0	0
58	21	2	Total Mg 2 2	0	0
58	41	2	Total Mg 2 2	0	0
58	78	1	Total Mg 1 1	0	0
58	88	2	Total Mg 2 2	0	0
58	98	2	Total Mg 2 2	0	0
58	G8	1	Total Mg 1 1	0	0
58	I8	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

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1G	96	Total 96	Mg 96	0	0
58	2A	2	Total 2	Mg 2	0	0
58	7A	1	Total 1	Mg 1	0	0
58	2L	3	Total 3	Mg 3	0	0
58	3L	2	Total 2	Mg 2	0	0
58	14	407	Total 407	Mg 407	0	0
58	1J	5	Total 5	Mg 5	0	0
58	29	4	Total 4	Mg 4	0	0
58	49	1	Total 1	Mg 1	0	0
58	25	1	Total 1	Mg 1	0	0
58	55	1	Total 1	Mg 1	0	0
58	C5	1	Total 1	Mg 1	0	0
58	J5	1	Total 1	Mg 1	0	0

- Molecule 59 is PAROMOMYCIN (three-letter code: PAR) (formula: C₂₃H₄₅N₅O₁₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
59	13	1	Total	C	N	O	0	0
			42	23	5	14		
59	1G	1	Total	C	N	O	0	0
			42	23	5	14		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	3E	1	Total	Zn	0	0
			1	1		
60	5I	1	Total	Zn	0	0
			1	1		
60	G8	1	Total	Zn	0	0
			1	1		
60	32	1	Total	Zn	0	0
			1	1		
60	5A	1	Total	Zn	0	0
			1	1		
60	C5	1	Total	Zn	0	0
			1	1		

- Molecule 61 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	13	197	Total	O	0	0
			197	197		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	3E	3	Total O 3 3	0	0
61	8E	2	Total O 2 2	0	0
61	1I	2	Total O 2 2	0	0
61	3I	1	Total O 1 1	0	0
61	5I	2	Total O 2 2	0	0
61	6I	1	Total O 1 1	0	0
61	7I	1	Total O 1 1	0	0
61	1K	5	Total O 5 5	0	0
61	2K	6	Total O 6 6	0	0
61	3K	1	Total O 1 1	0	0
61	4K	2	Total O 2 2	0	0
61	1H	999	Total O 999 999	0	0
61	16	21	Total O 21 21	0	0
61	11	13	Total O 13 13	0	0
61	21	4	Total O 4 4	0	0
61	31	4	Total O 4 4	0	0
61	58	2	Total O 2 2	0	0
61	78	5	Total O 5 5	0	0
61	B8	1	Total O 1 1	0	0
61	C8	3	Total O 3 3	0	0
61	D8	1	Total O 1 1	0	0

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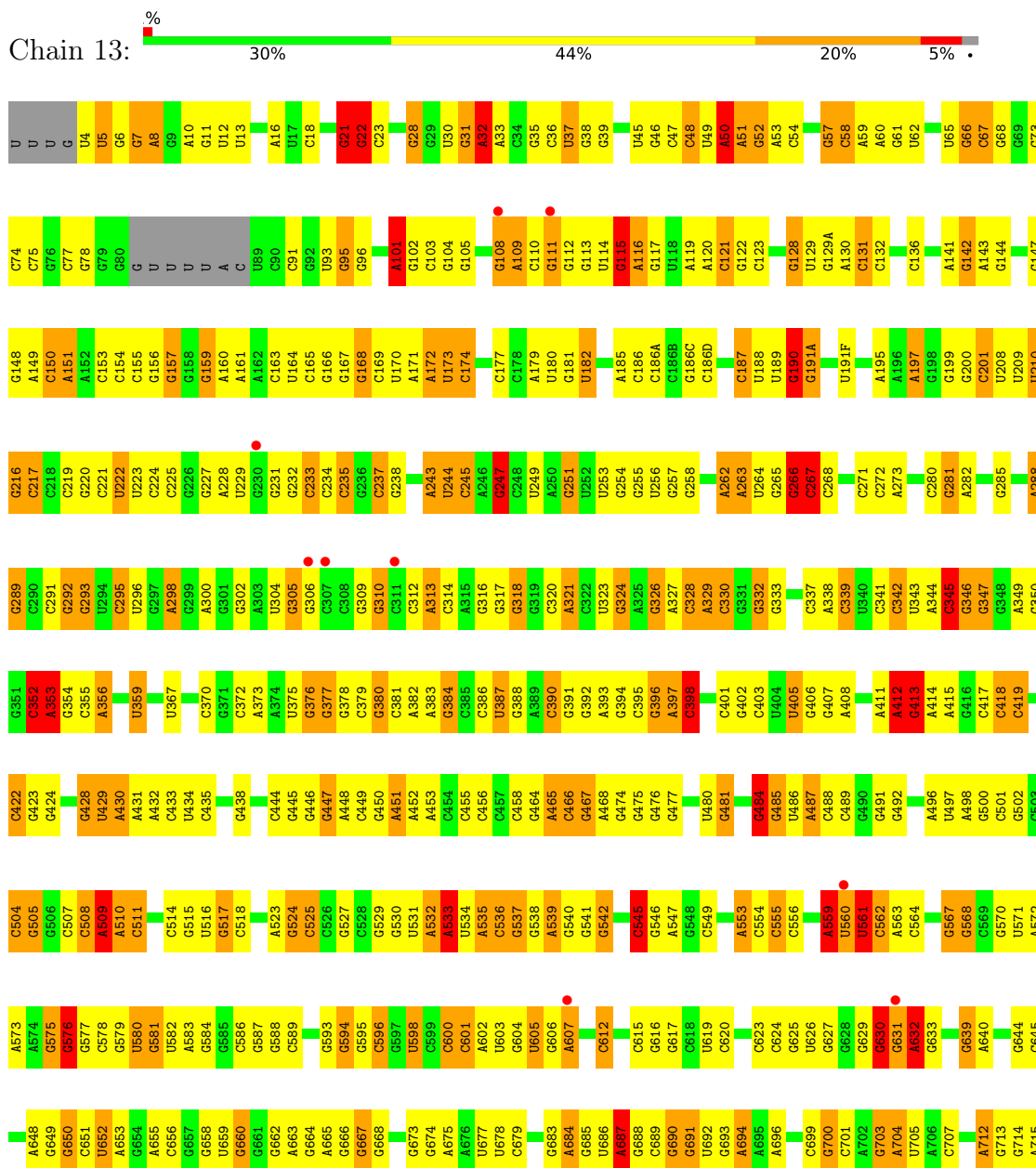
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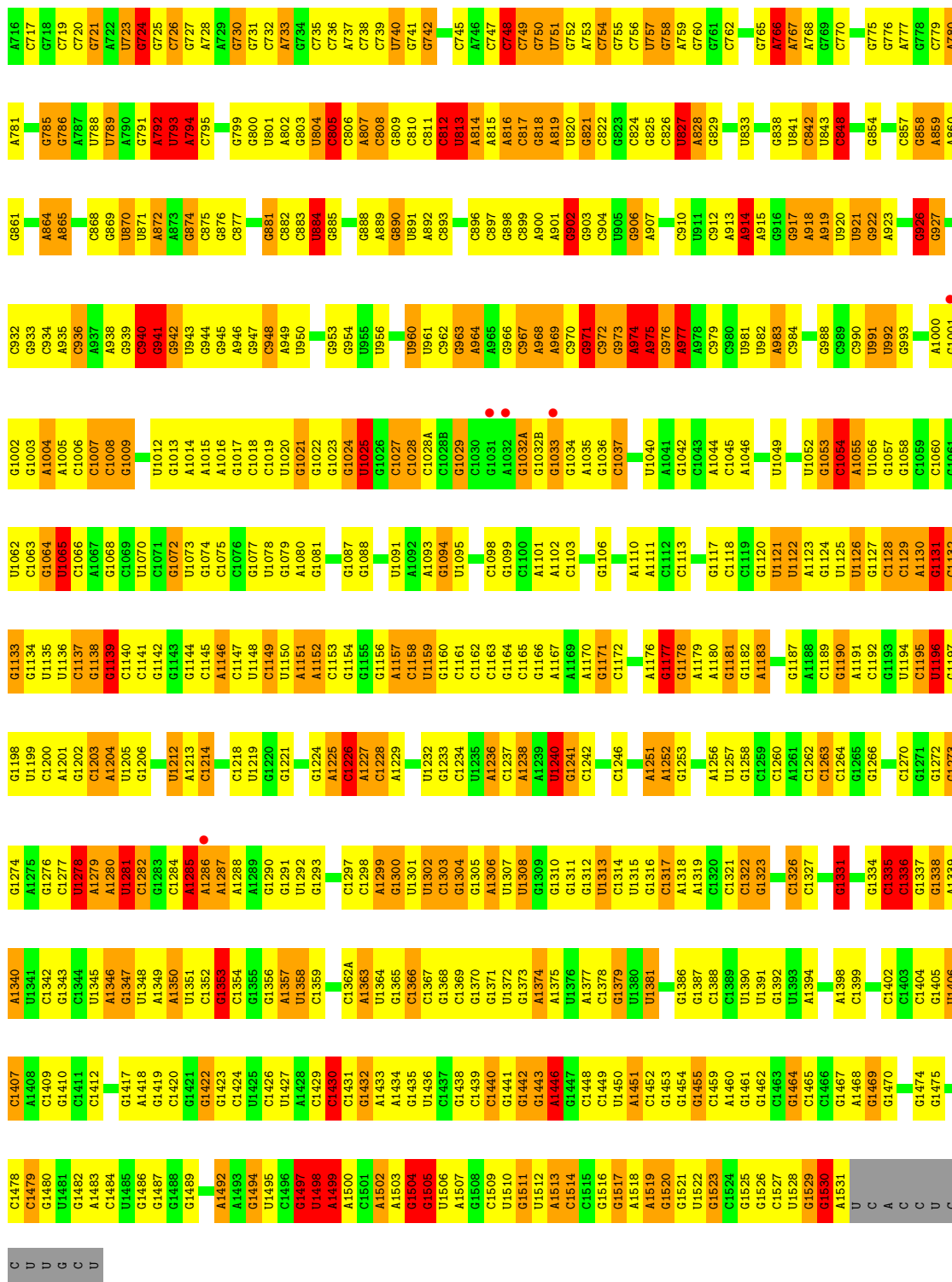
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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61	I8	7	Total O 7 7	0	0
61	L8	1	Total O 1 1	0	0
61	P8	1	Total O 1 1	0	0
61	Q8	2	Total O 2 2	0	0
61	1G	82	Total O 82 82	0	0
61	7A	1	Total O 1 1	0	0
61	BA	1	Total O 1 1	0	0
61	3L	6	Total O 6 6	0	0
61	14	598	Total O 598 598	0	0
61	19	13	Total O 13 13	0	0
61	39	7	Total O 7 7	0	0
61	35	1	Total O 1 1	0	0
61	85	1	Total O 1 1	0	0
61	A5	1	Total O 1 1	0	0
61	G5	1	Total O 1 1	0	0
61	L5	1	Total O 1 1	0	0

3 Residue-property plots

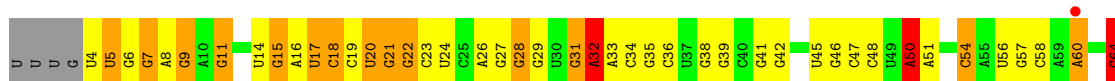
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

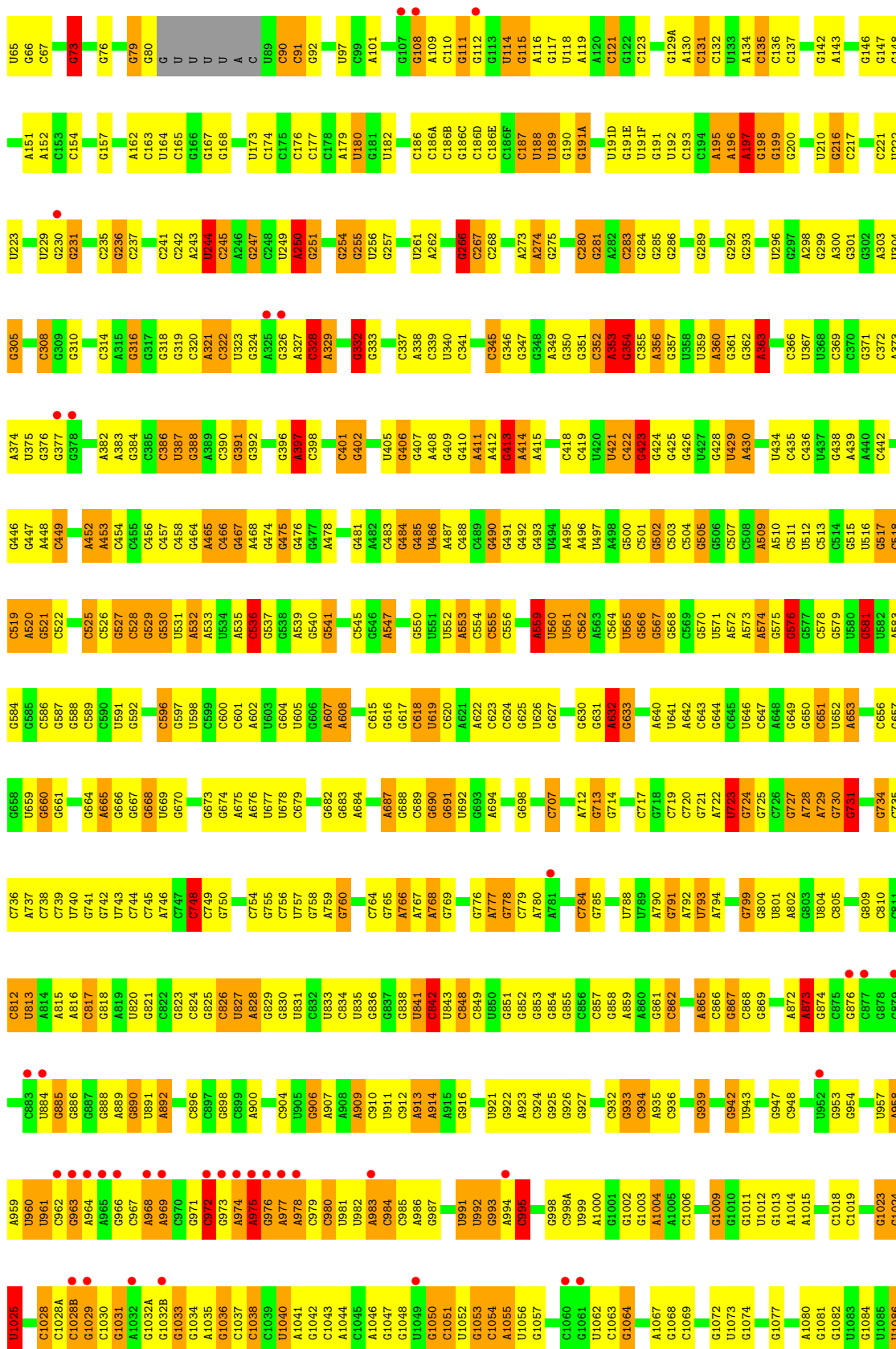
• Molecule 1: 16S ribosomal RNA

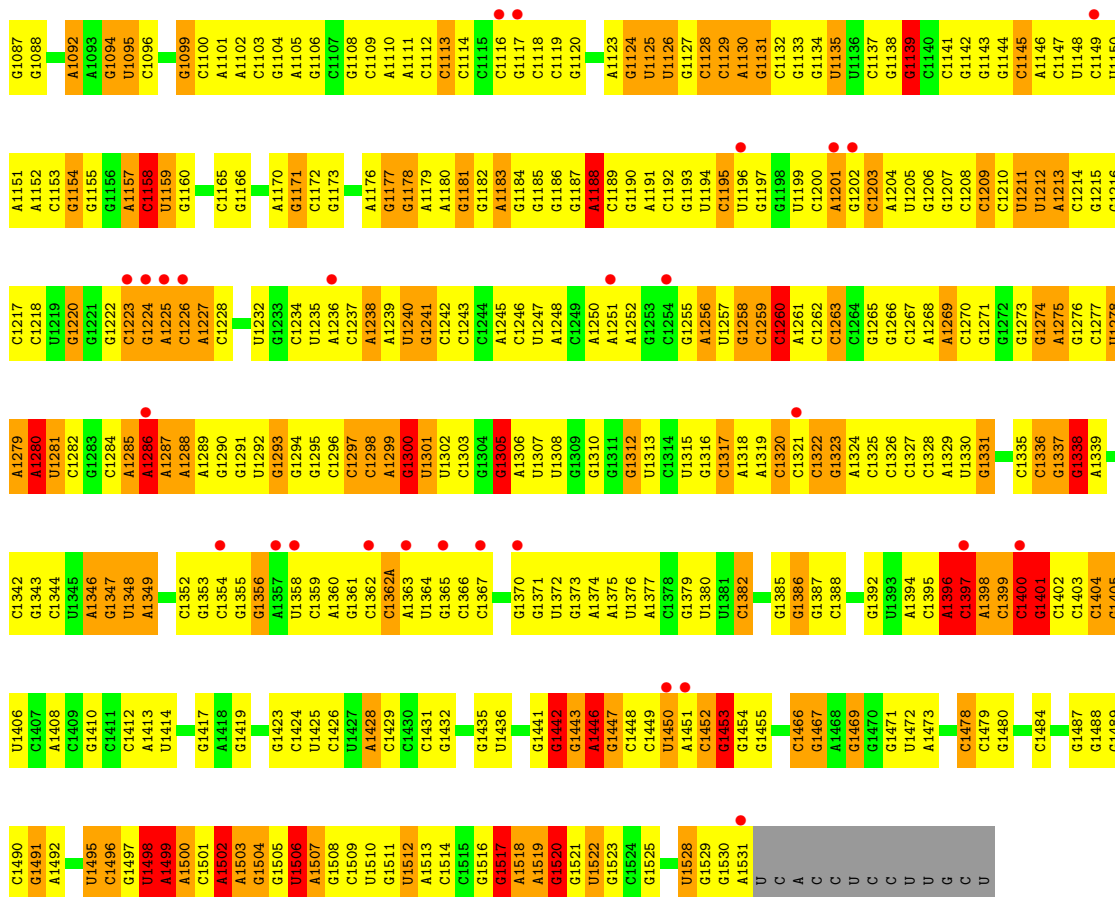




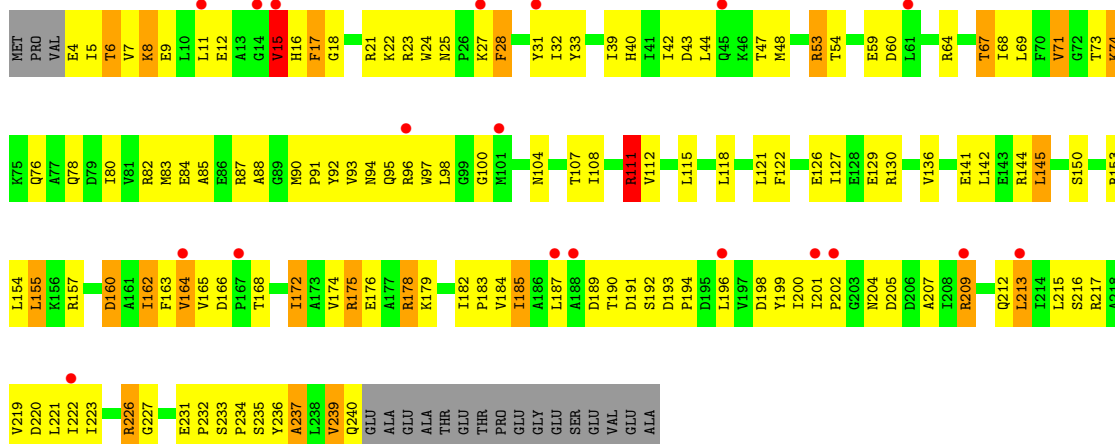
• Molecule 1: 16S ribosomal RNA





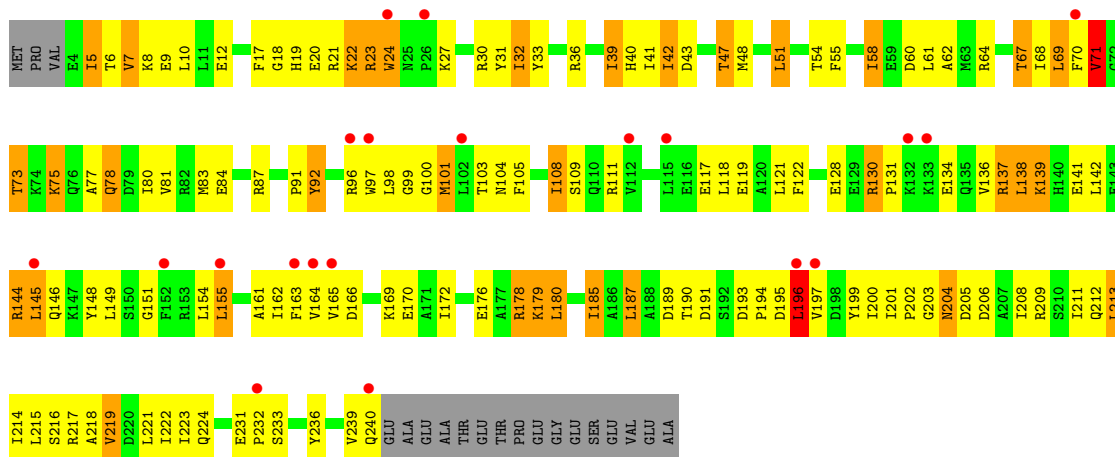


• Molecule 2: 30S ribosomal protein S2

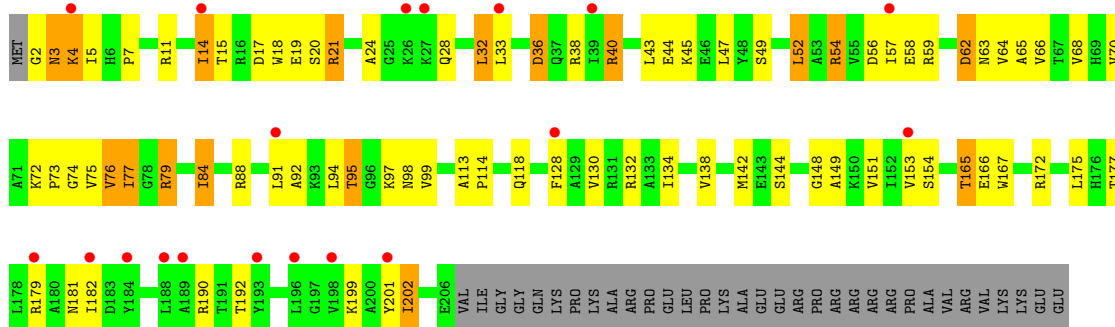


• Molecule 2: 30S ribosomal protein S2

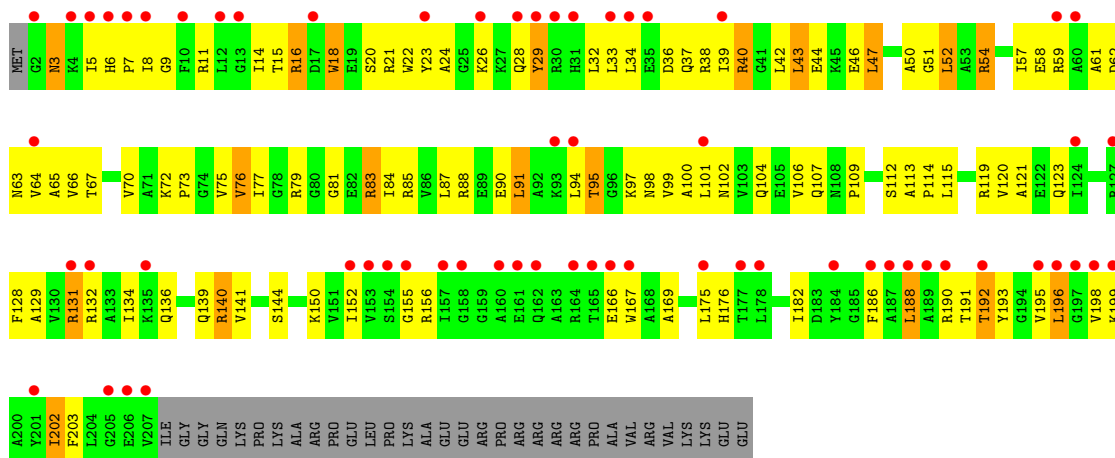




• Molecule 3: 30S ribosomal protein S3

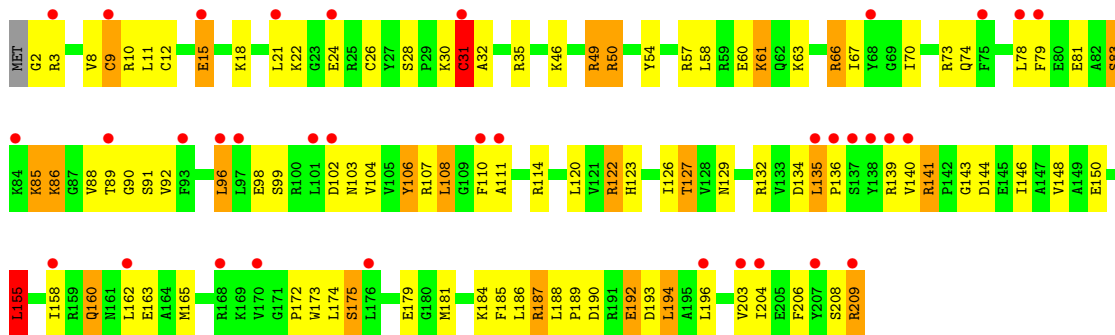


• Molecule 3: 30S ribosomal protein S3

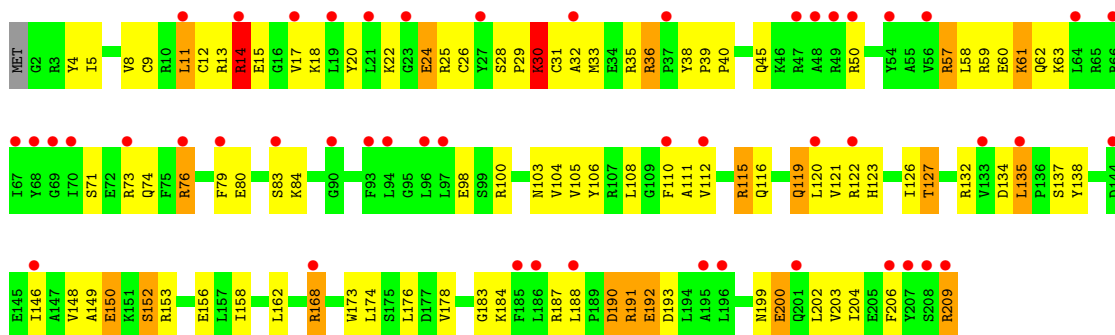


• Molecule 4: 30S ribosomal protein S4

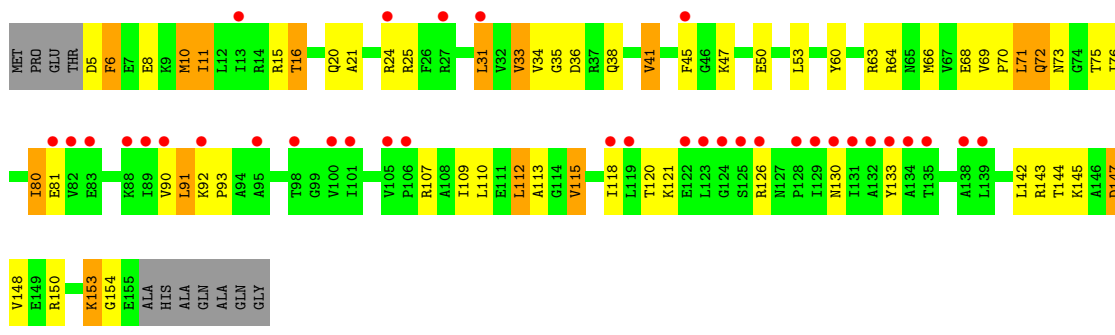




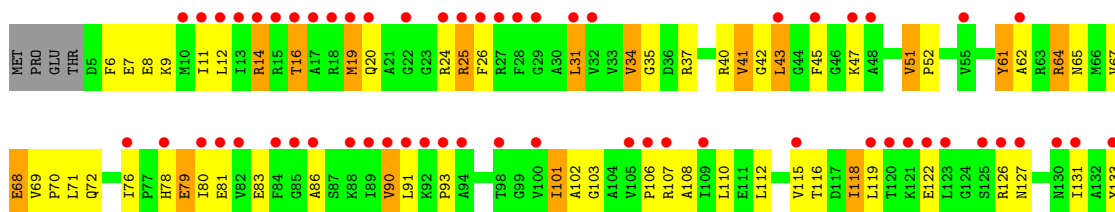
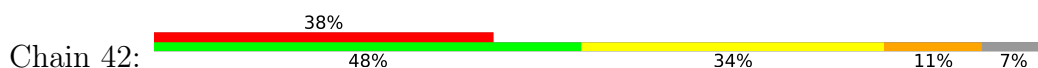
• Molecule 4: 30S ribosomal protein S4



• Molecule 5: 30S ribosomal protein S5



• Molecule 5: 30S ribosomal protein S5

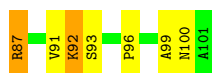




- Molecule 6: 30S ribosomal protein S6



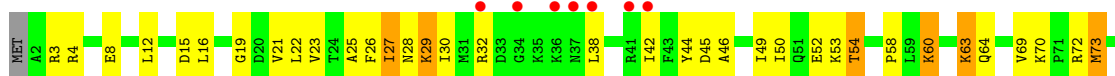
- Molecule 6: 30S ribosomal protein S6



- Molecule 7: 30S ribosomal protein S7



- Molecule 7: 30S ribosomal protein S7

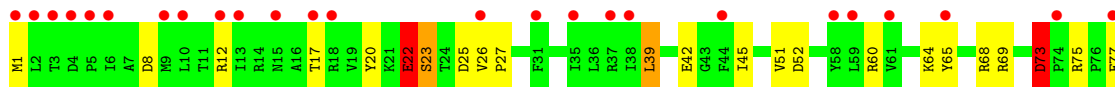
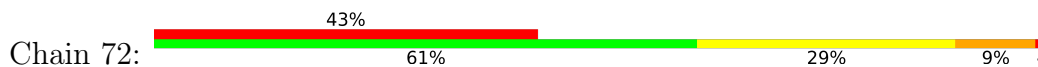


- Molecule 8: 30S ribosomal protein S8

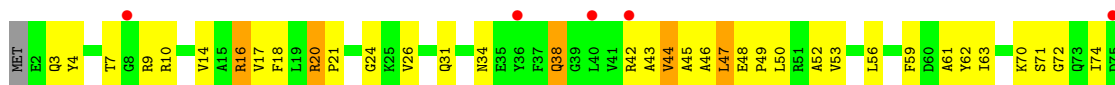




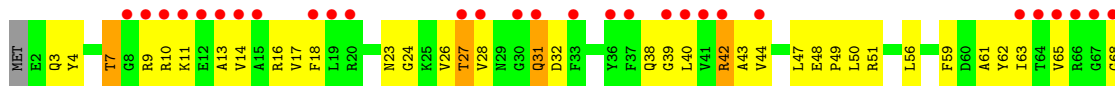
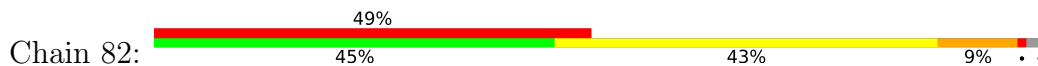
• Molecule 8: 30S ribosomal protein S8



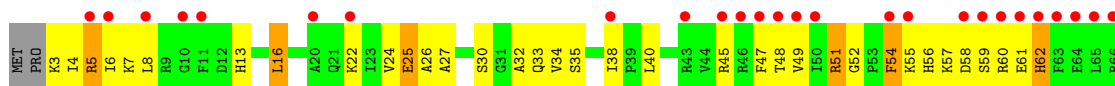
• Molecule 9: 30S ribosomal protein S9



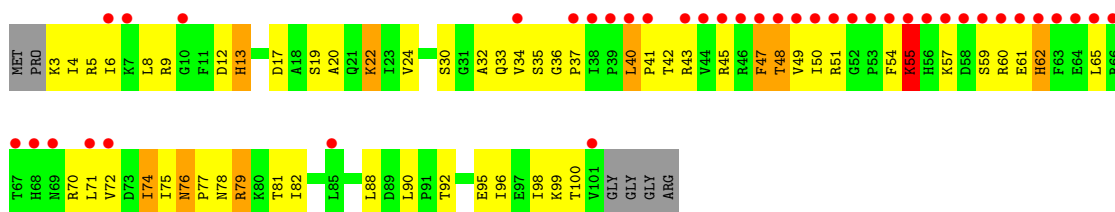
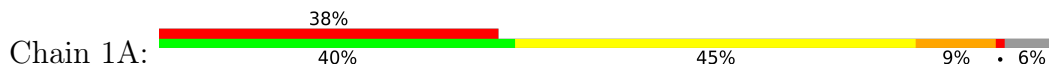
• Molecule 9: 30S ribosomal protein S9



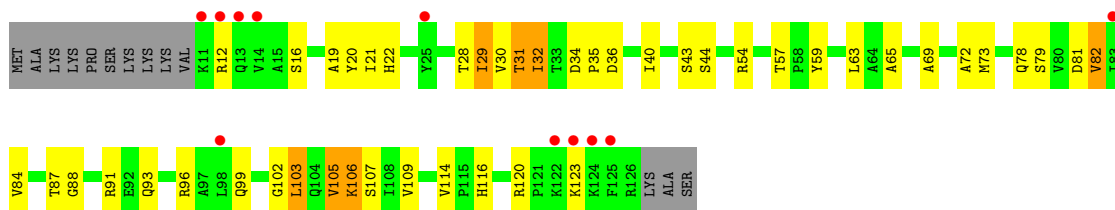
• Molecule 10: 30S ribosomal protein S10



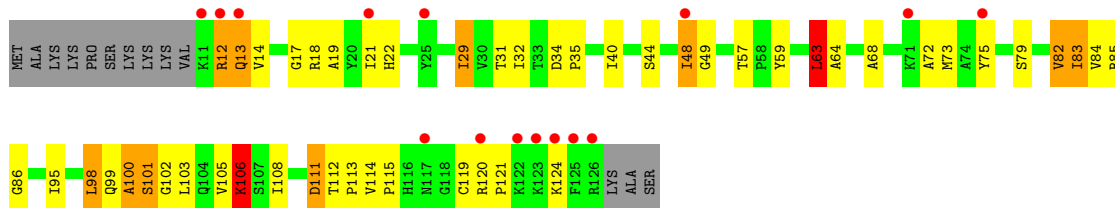
- Molecule 10: 30S ribosomal protein S10



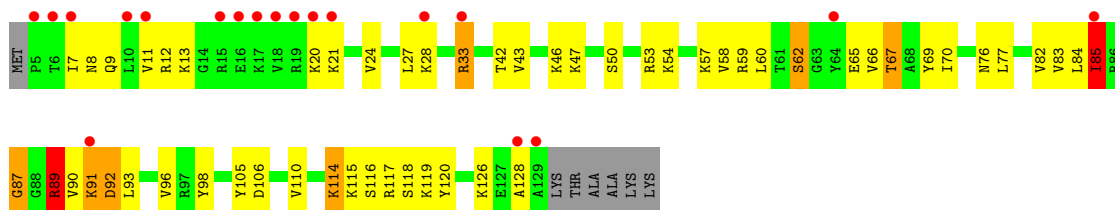
- Molecule 11: 30S ribosomal protein S11



- Molecule 11: 30S ribosomal protein S11

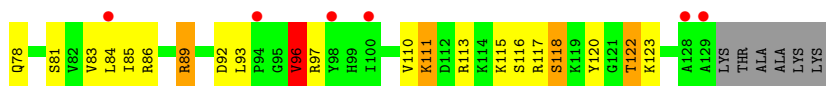


- Molecule 12: 30S ribosomal protein S12

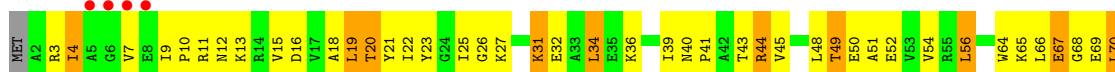


- Molecule 12: 30S ribosomal protein S12

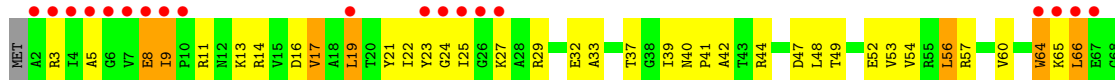




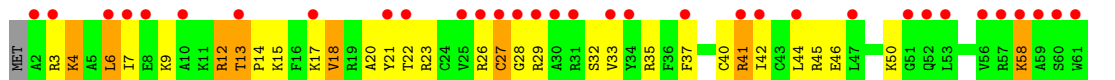
• Molecule 13: 30S ribosomal protein S13



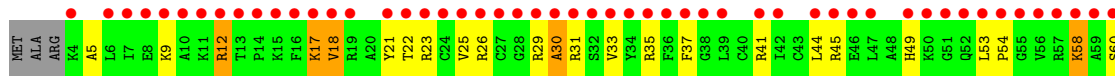
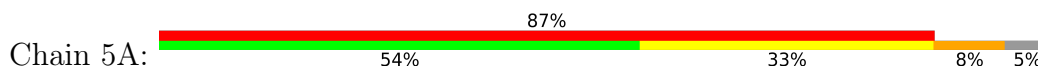
• Molecule 13: 30S ribosomal protein S13



• Molecule 14: 30S ribosomal protein S14 type Z



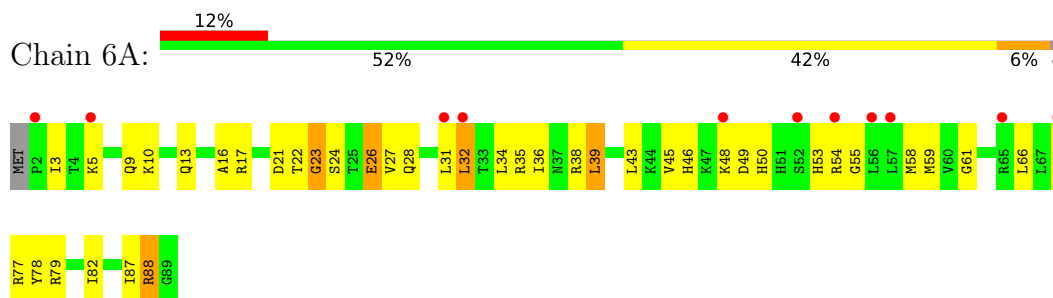
• Molecule 14: 30S ribosomal protein S14 type Z



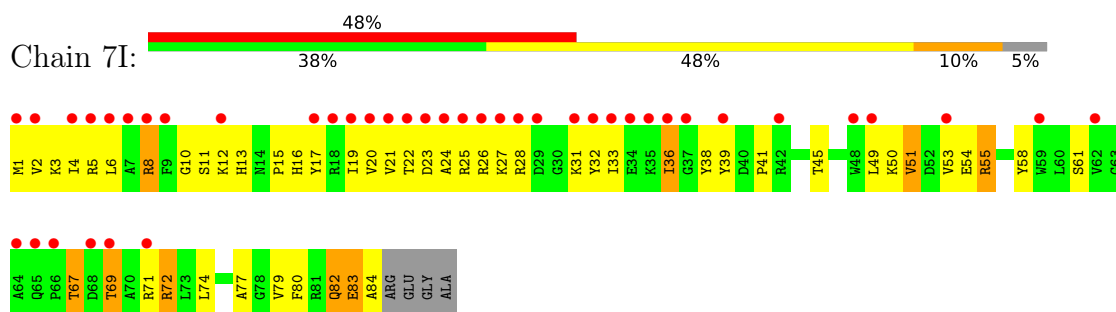
• Molecule 15: 30S ribosomal protein S15



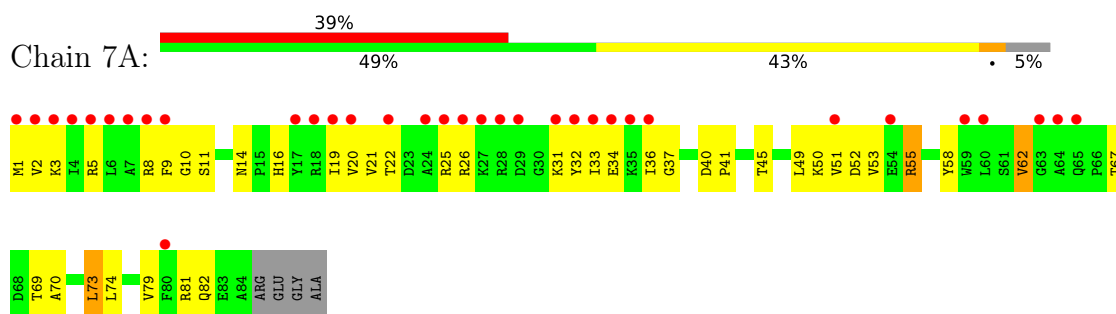
- Molecule 15: 30S ribosomal protein S15



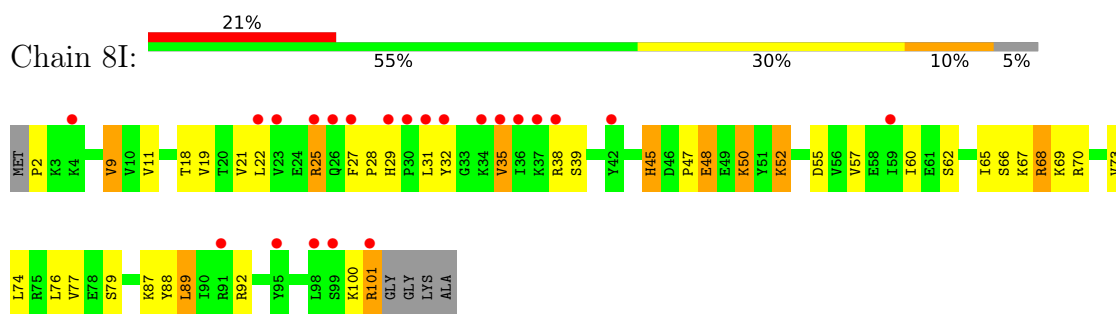
- Molecule 16: 30S ribosomal protein S16



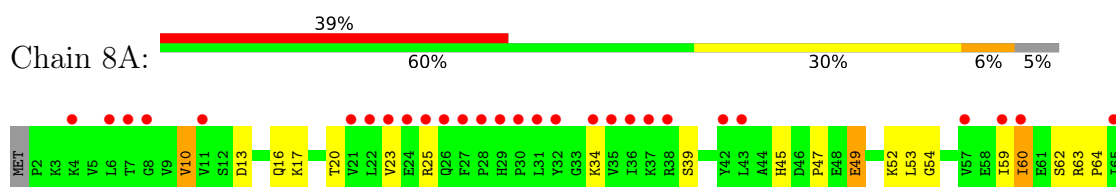
- Molecule 16: 30S ribosomal protein S16

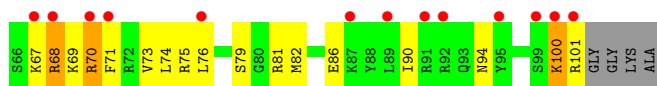


- Molecule 17: 30S ribosomal protein S17

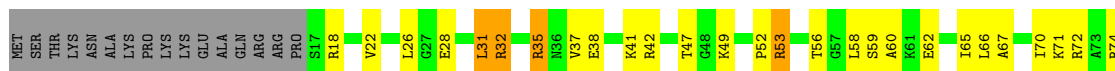


- Molecule 17: 30S ribosomal protein S17

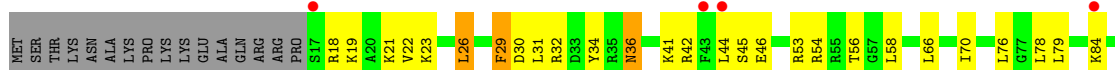




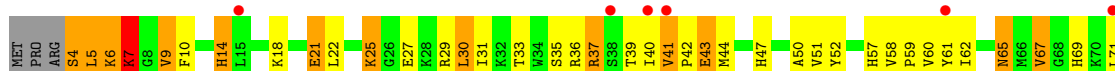
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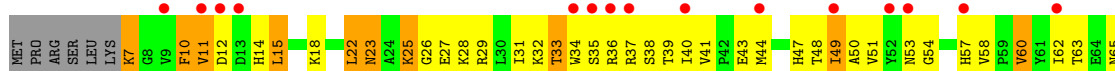
• Molecule 18: 30S ribosomal protein S18



• Molecule 19: 30S ribosomal protein S19

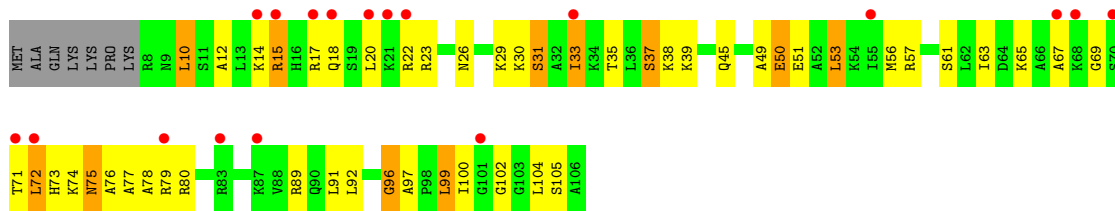


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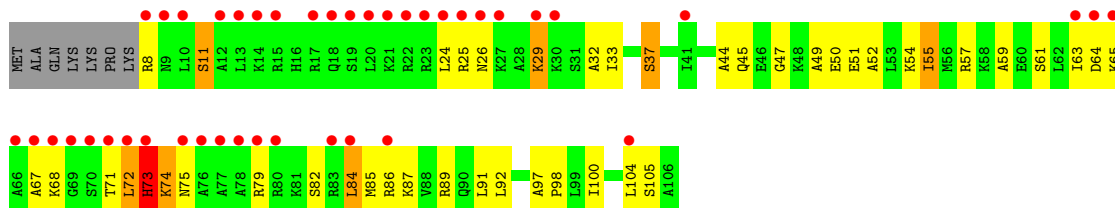
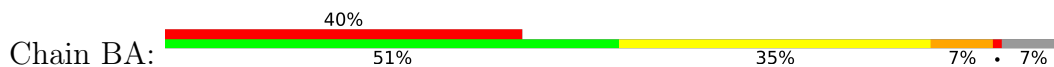


• Molecule 20: 30S ribosomal protein S20

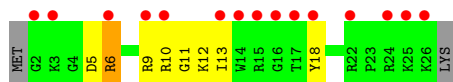




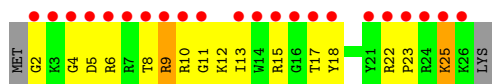
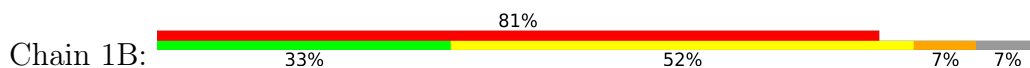
● Molecule 20: 30S ribosomal protein S20



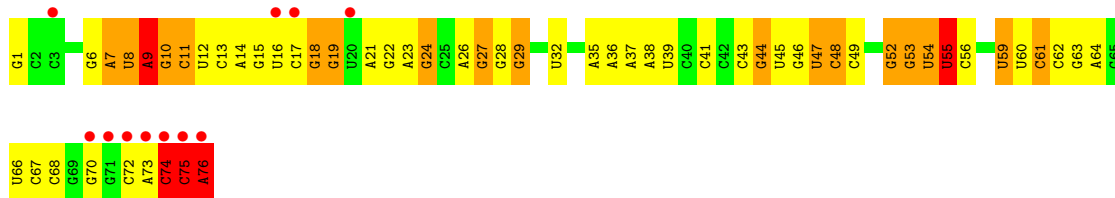
● Molecule 21: 30S ribosomal protein Thx



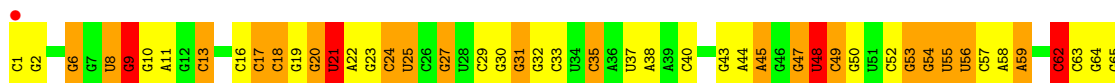
● Molecule 21: 30S ribosomal protein Thx



● Molecule 22: tRNA-Phe

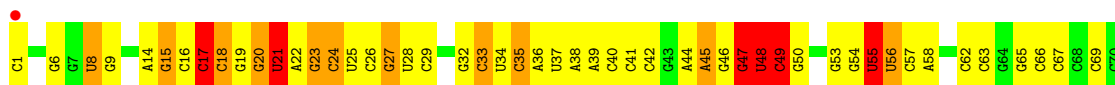


● Molecule 23: tRNA-fMet

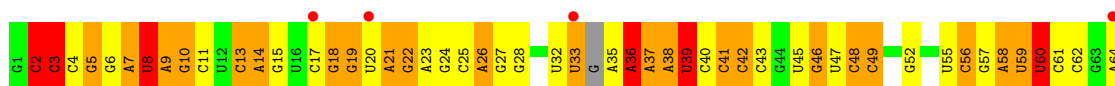
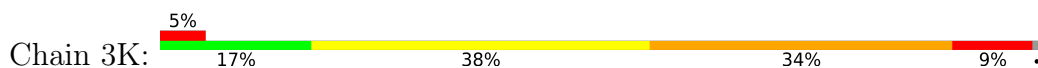




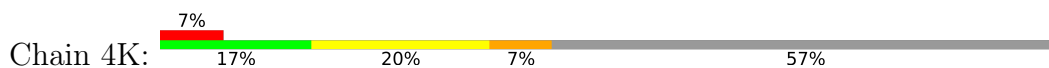
• Molecule 23: tRNA-fMet



• Molecule 24: tRNA-Phe



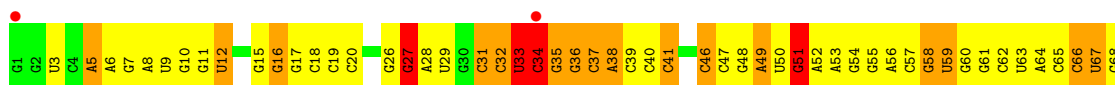
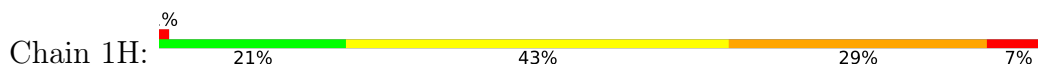
• Molecule 25: mRNA

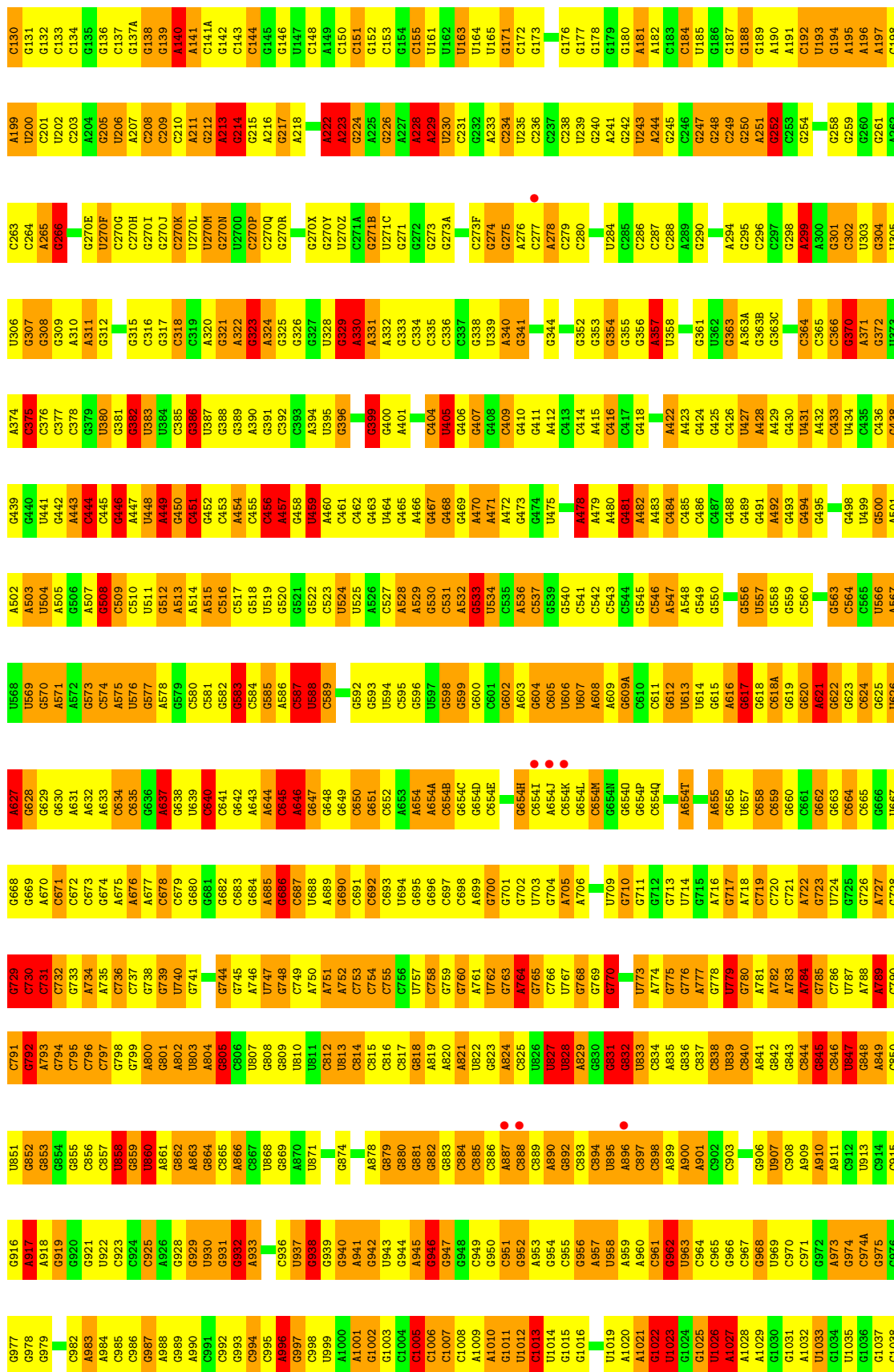


• Molecule 25: mRNA



• Molecule 26: 23S ribosomal RNA

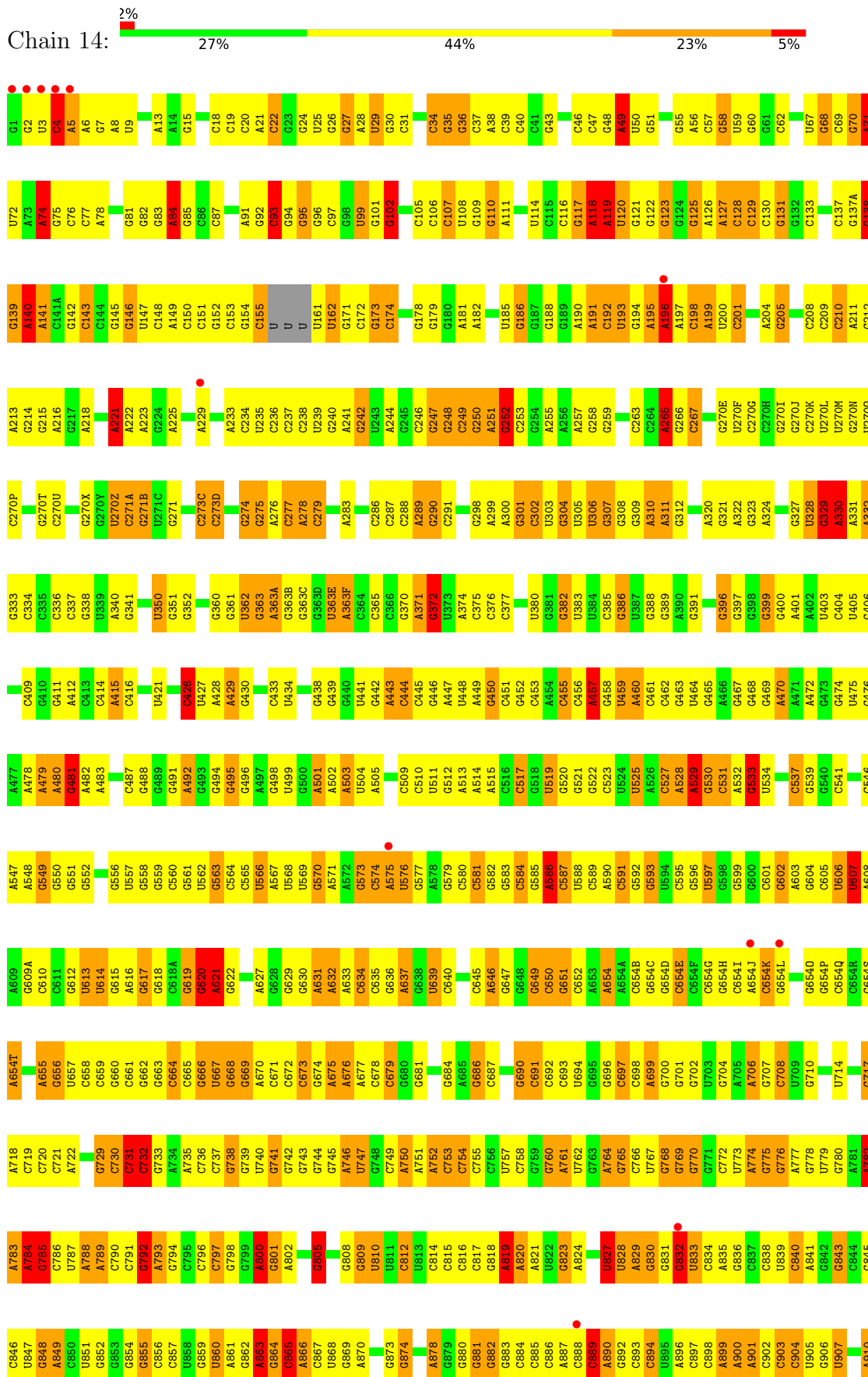


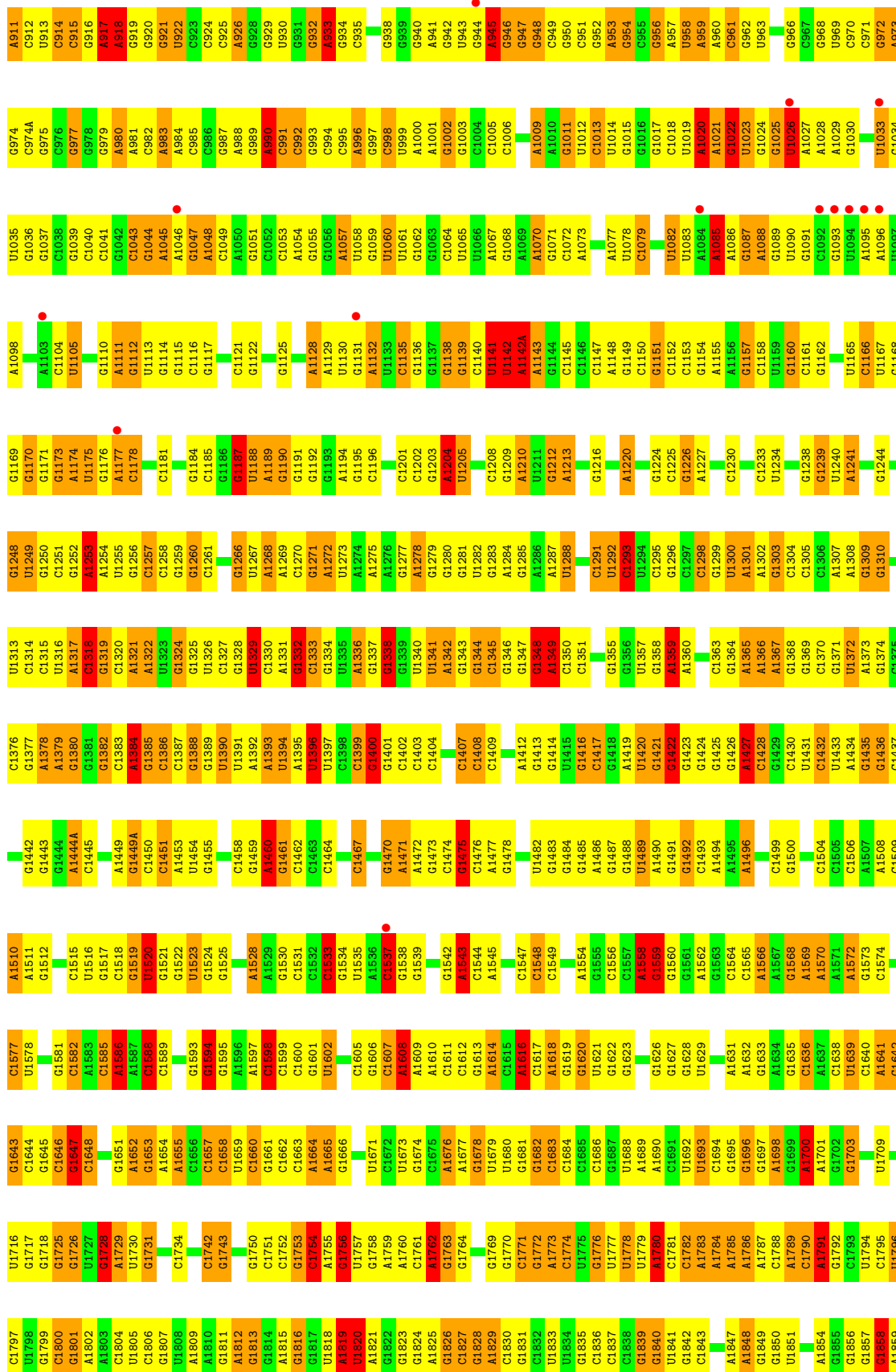


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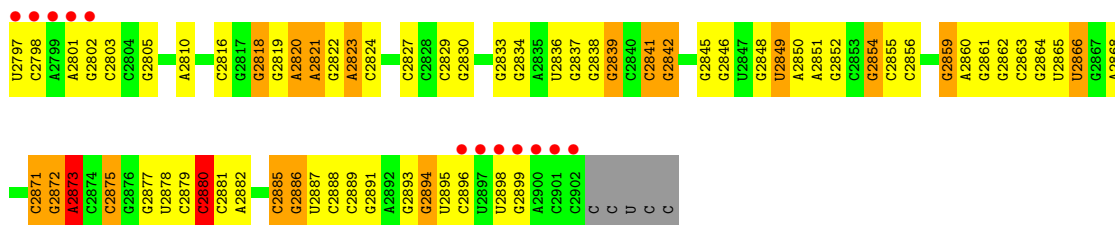
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● Molecule 26: 23S ribosomal RNA

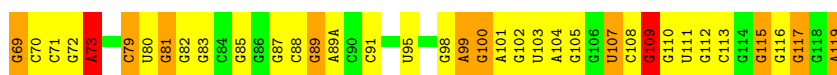




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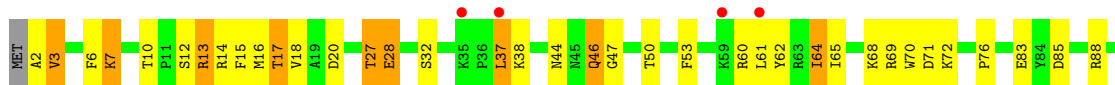
• Molecule 27: 5S ribosomal RNA



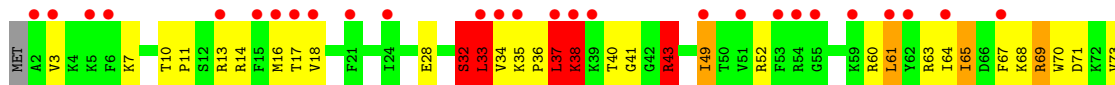
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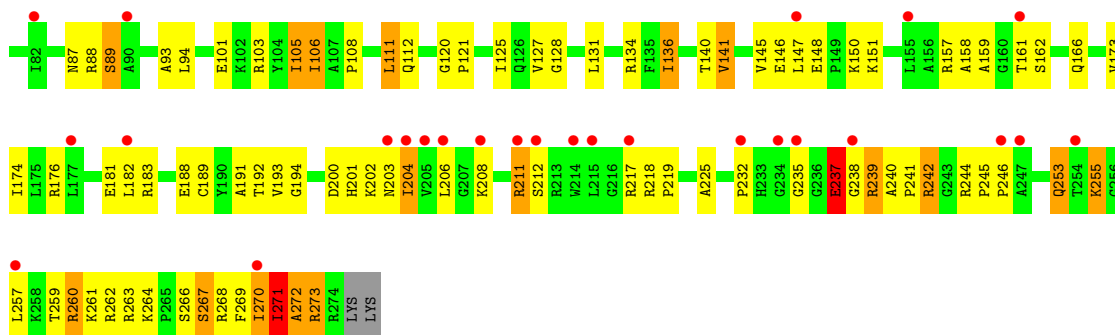


• Molecule 28: 50S ribosomal protein L2

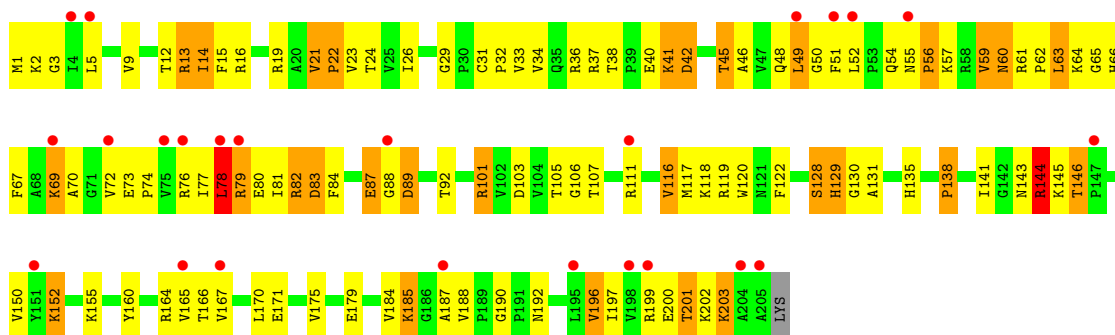


• Molecule 28: 50S ribosomal protein L2

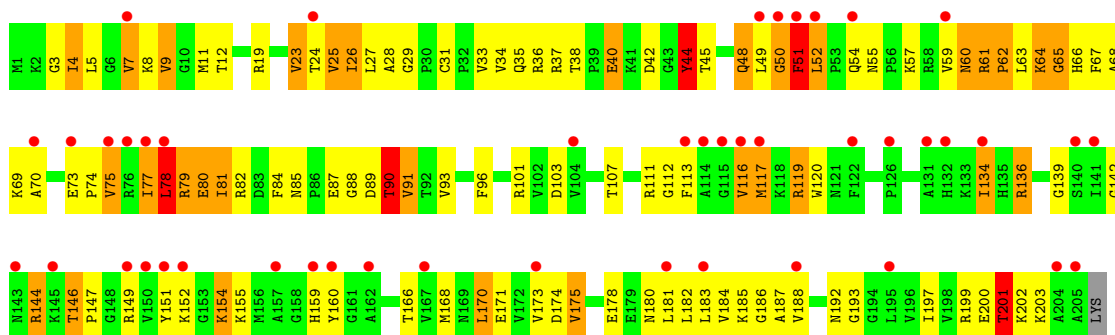
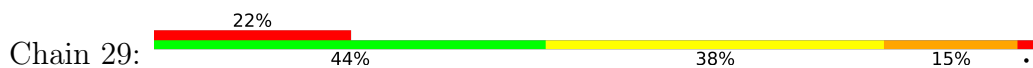




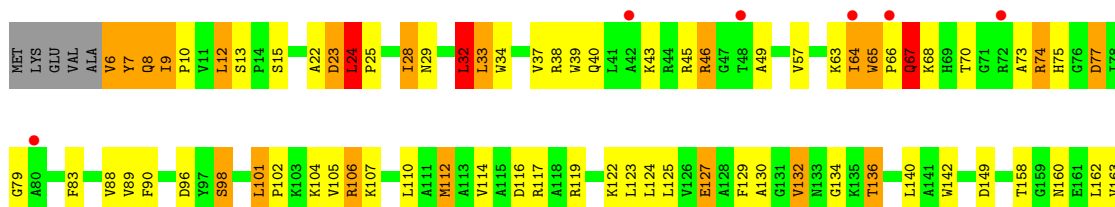
• Molecule 29: 50S ribosomal protein L3



• Molecule 29: 50S ribosomal protein L3

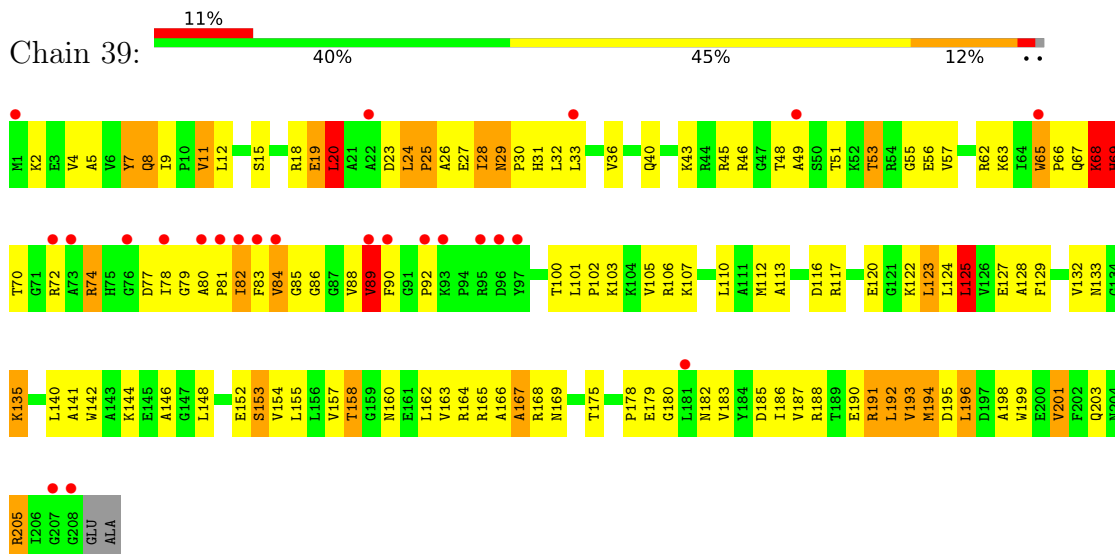


• Molecule 30: 50S ribosomal protein L4

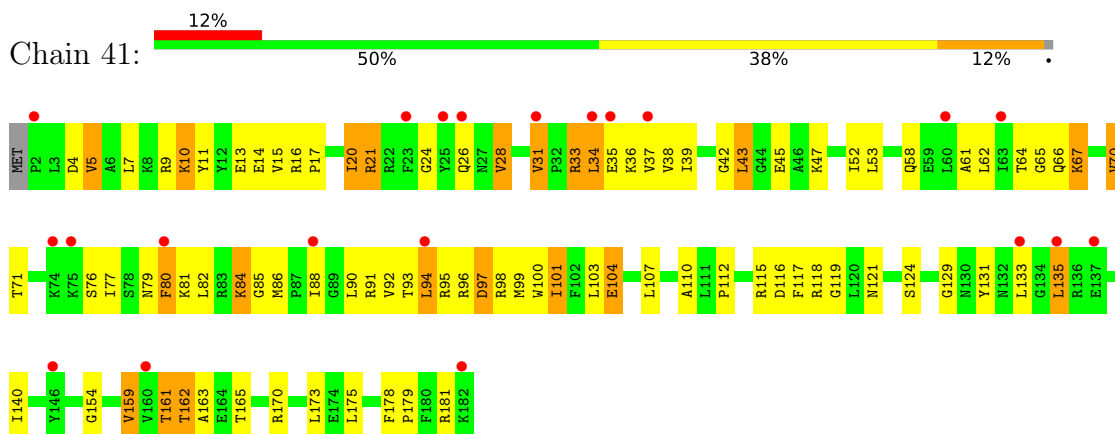




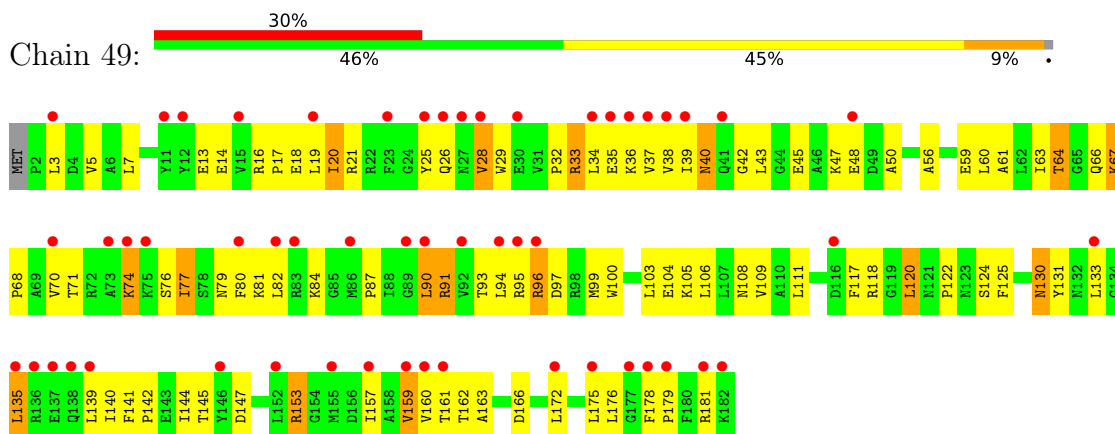
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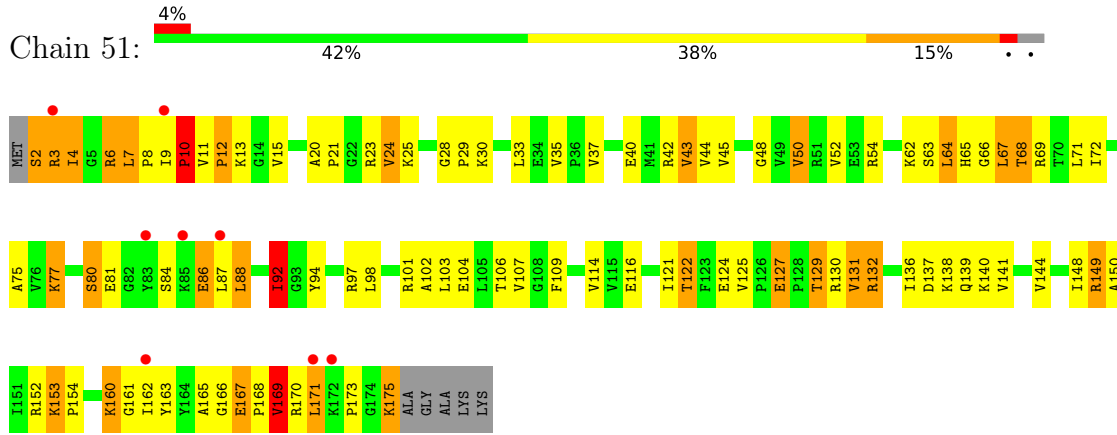
• Molecule 31: 50S ribosomal protein L5



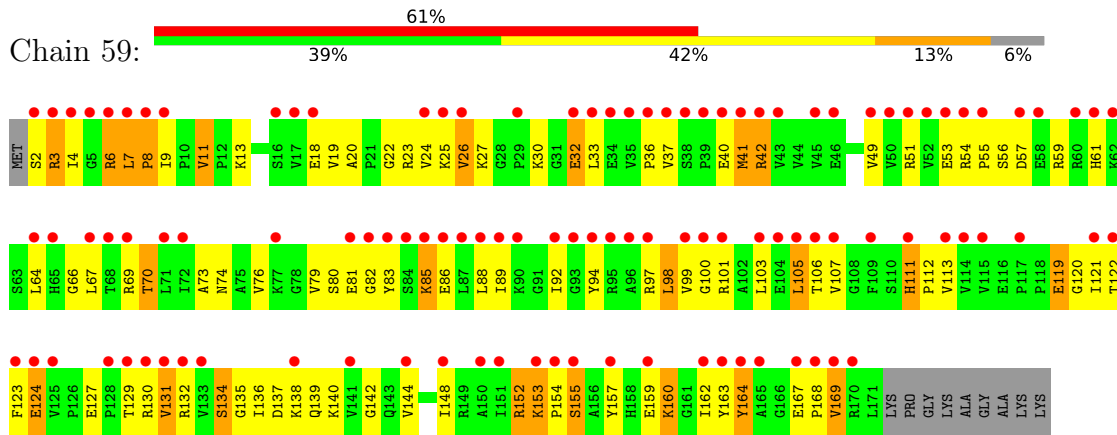
• Molecule 31: 50S ribosomal protein L5



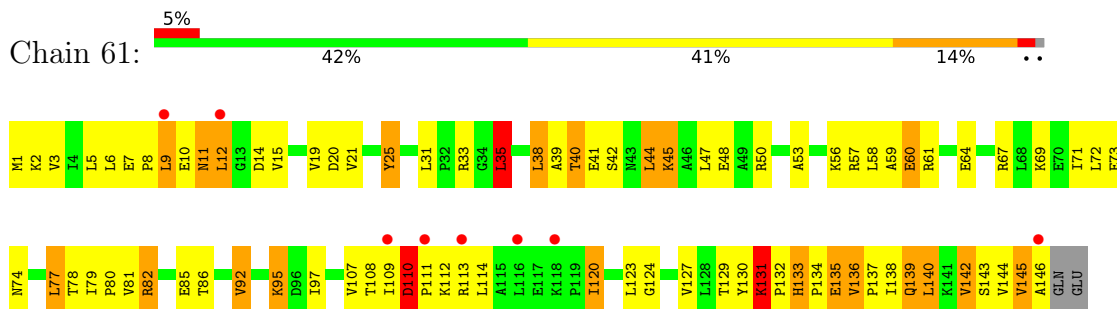
• Molecule 32: 50S ribosomal protein L6



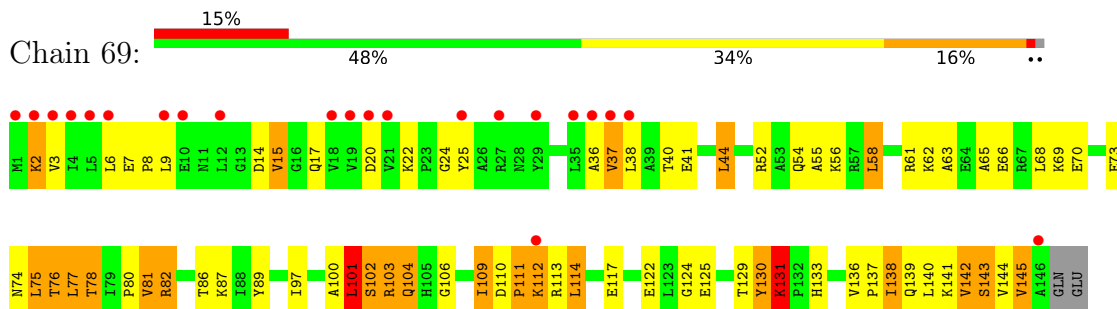
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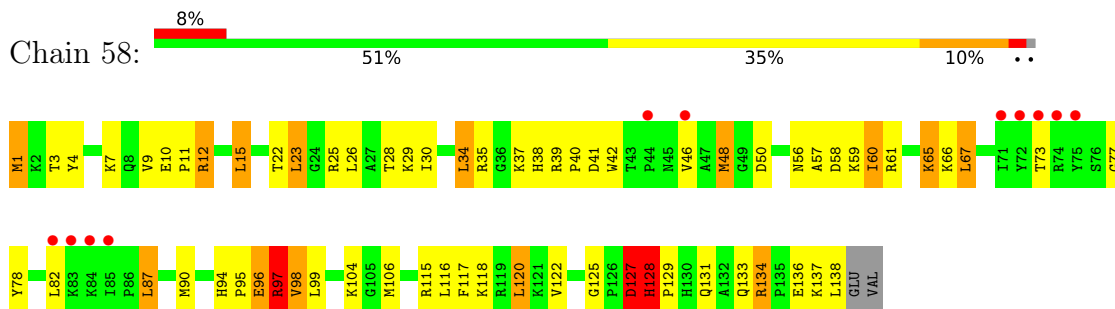
• Molecule 33: 50S ribosomal protein L9



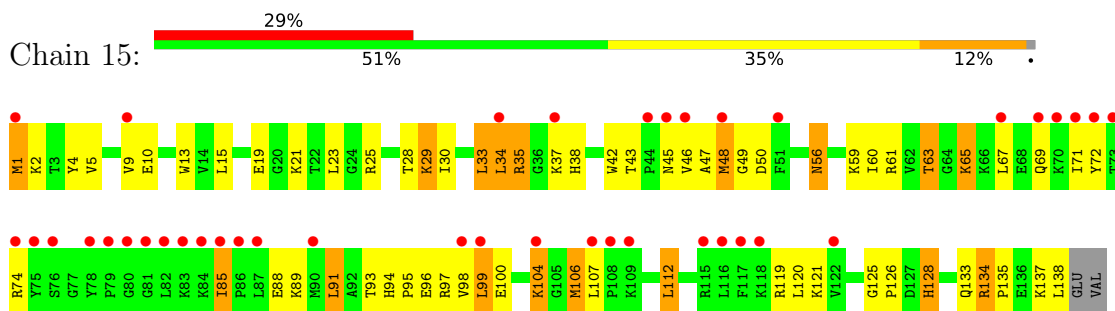
• Molecule 33: 50S ribosomal protein L9



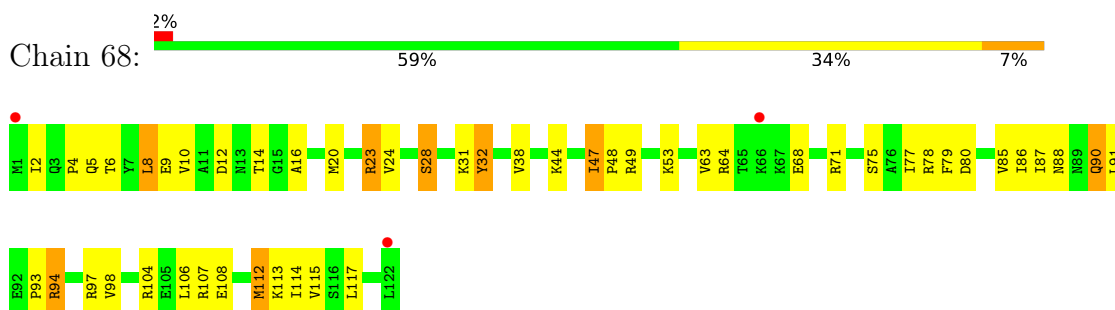
- Molecule 34: 50S ribosomal protein L13



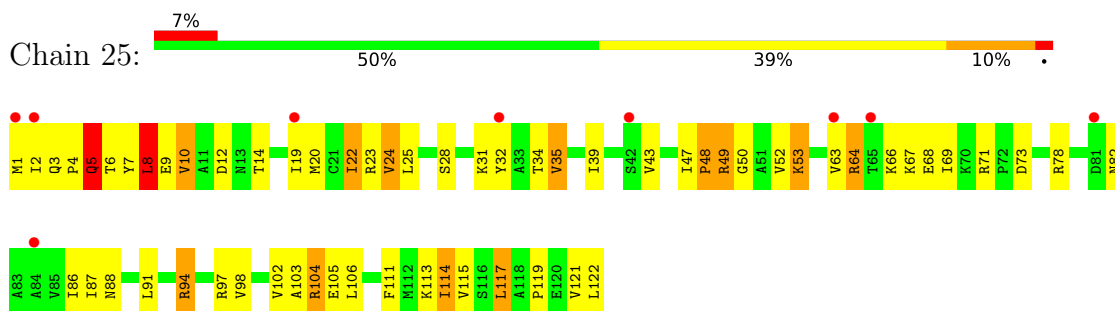
- Molecule 34: 50S ribosomal protein L13



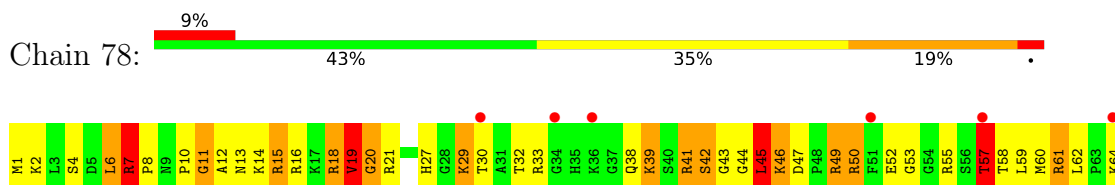
- Molecule 35: 50S ribosomal protein L14

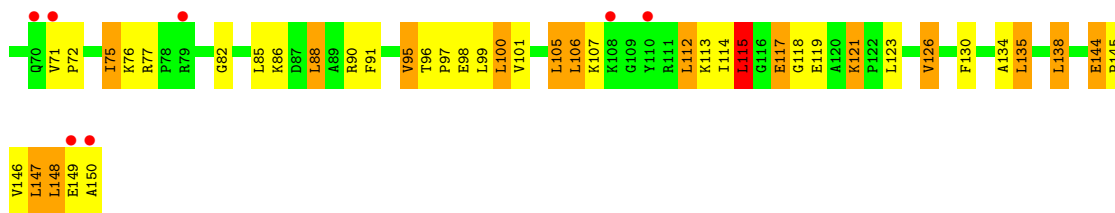


- Molecule 35: 50S ribosomal protein L14

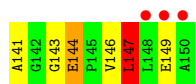
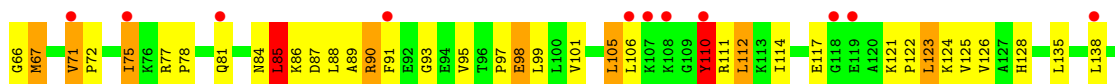
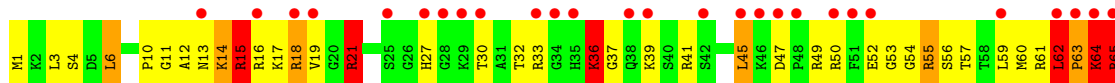
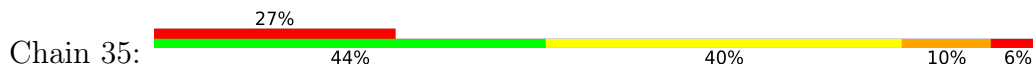


- Molecule 36: 50S ribosomal protein L15

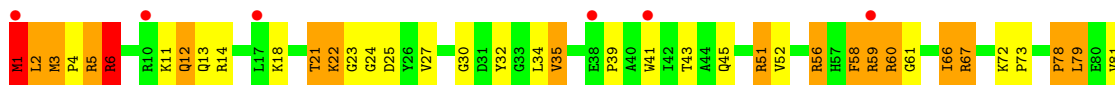




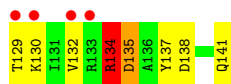
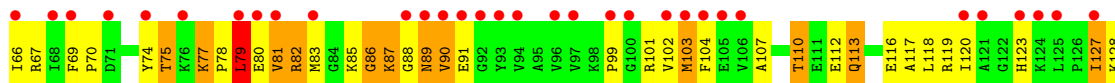
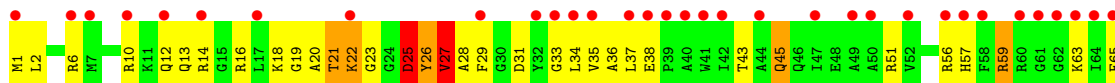
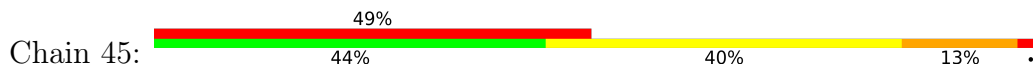
• Molecule 36: 50S ribosomal protein L15



• Molecule 37: 50S ribosomal protein L16

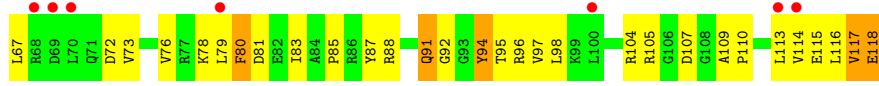
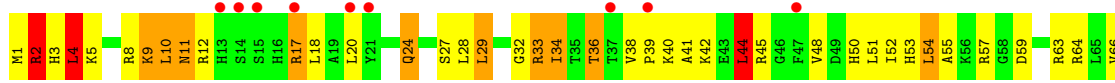


• Molecule 37: 50S ribosomal protein L16

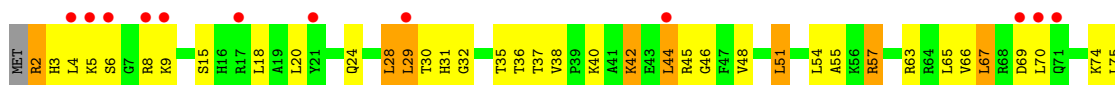


• Molecule 38: 50S ribosomal protein L17

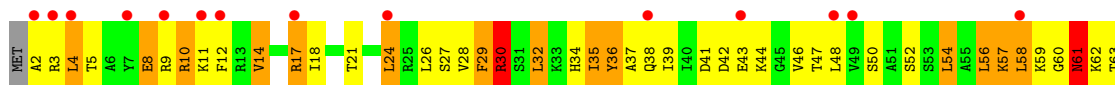
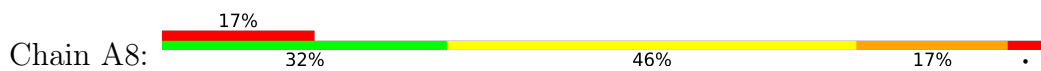




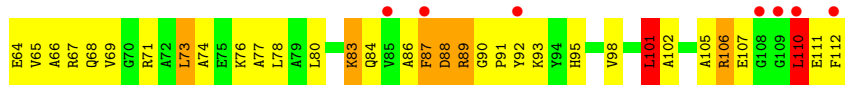
• Molecule 38: 50S ribosomal protein L17



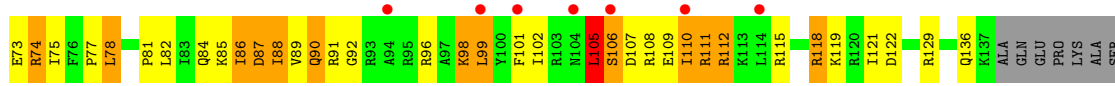
• Molecule 39: 50S ribosomal protein L18



• Molecule 39: 50S ribosomal protein L18

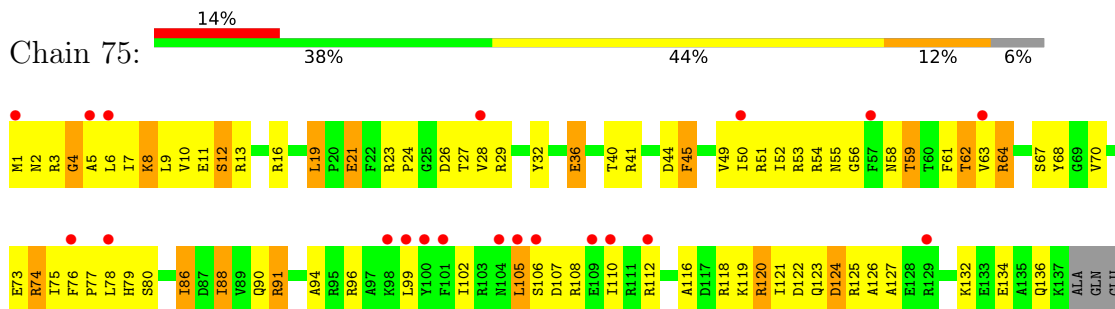


• Molecule 40: 50S ribosomal protein L19

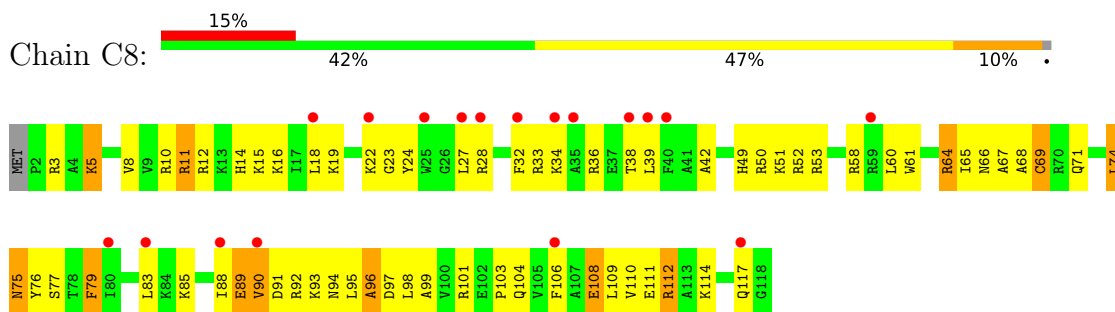


GLN
GLU

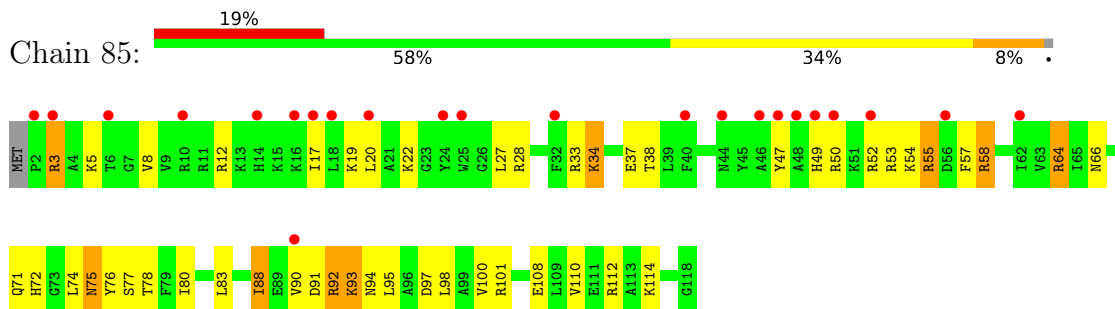
- Molecule 40: 50S ribosomal protein L19

PRO
LYS
ALA
SER
GLN
GLU

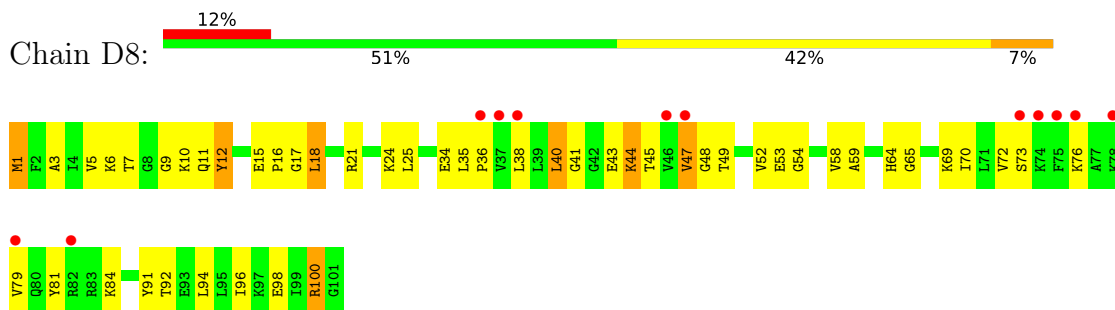
- Molecule 41: 50S ribosomal protein L20



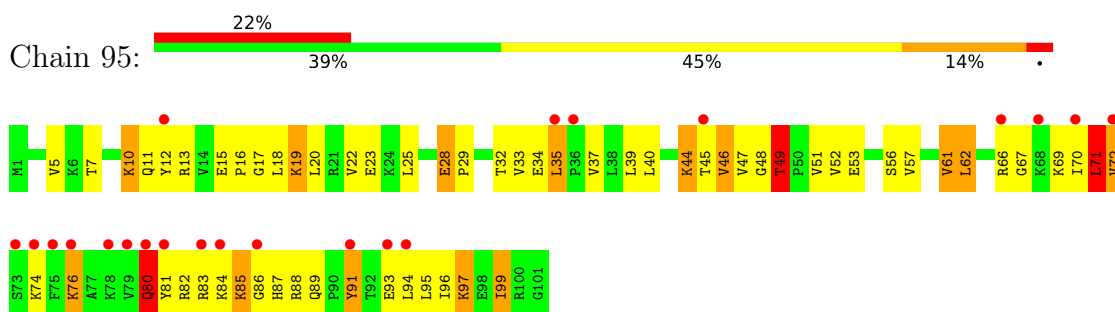
- Molecule 41: 50S ribosomal protein L20



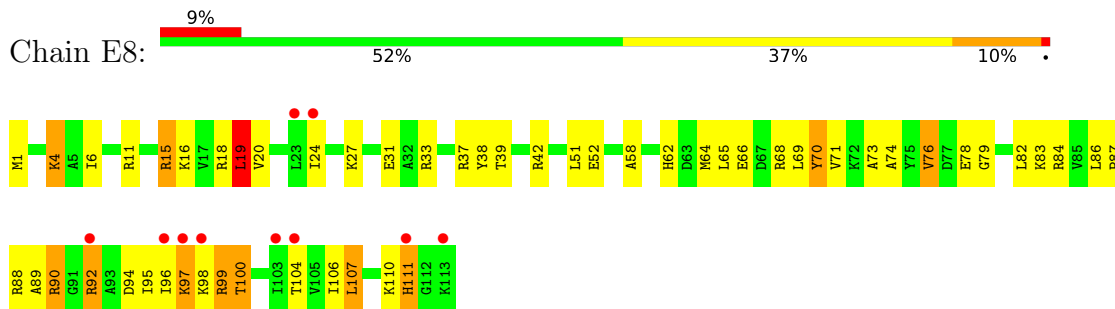
- Molecule 42: 50S ribosomal protein L21



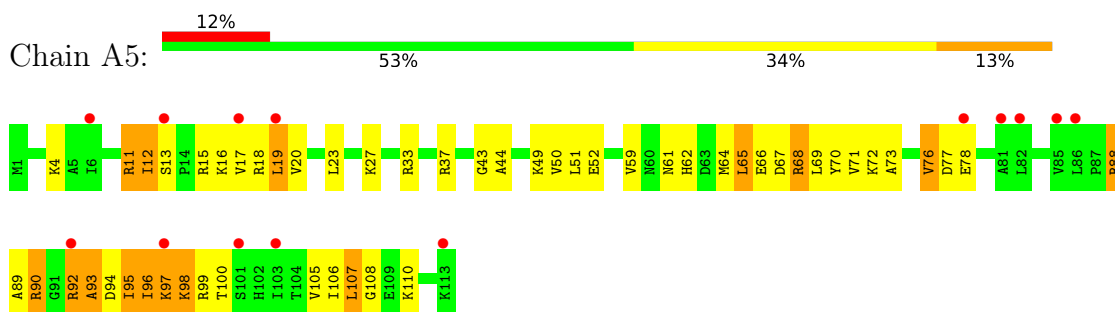
- Molecule 42: 50S ribosomal protein L21



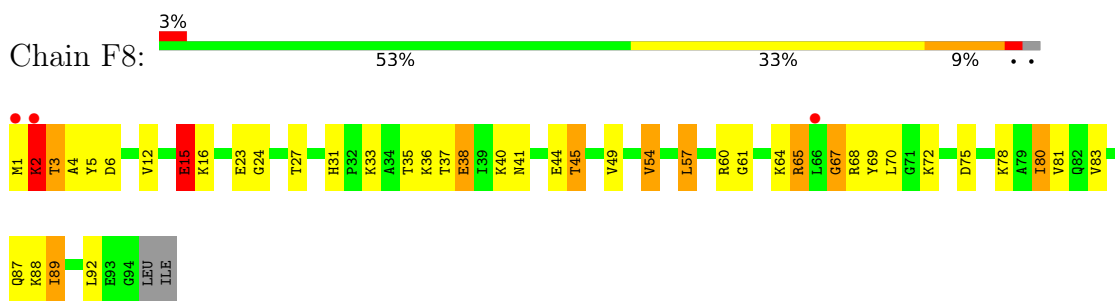
- Molecule 43: 50S ribosomal protein L22



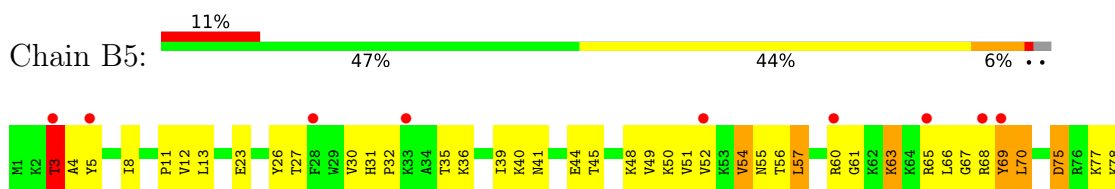
- Molecule 43: 50S ribosomal protein L22

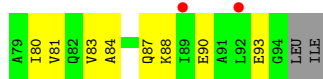


- Molecule 44: 50S ribosomal protein L23



- Molecule 44: 50S ribosomal protein L23

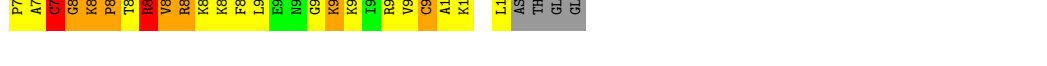




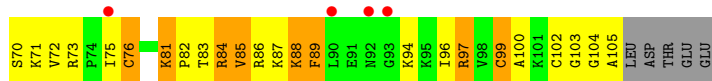
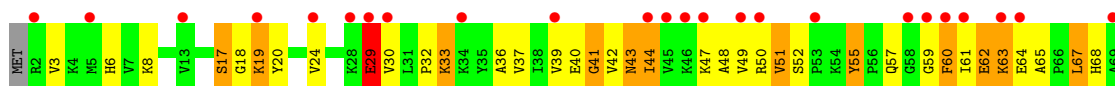
• Molecule 45: 50S ribosomal protein L24



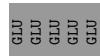
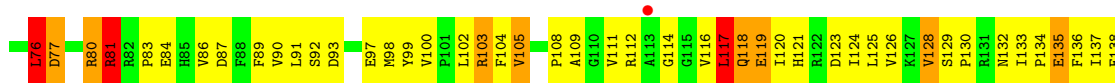
• Molecule 45: 50S ribosomal protein L24



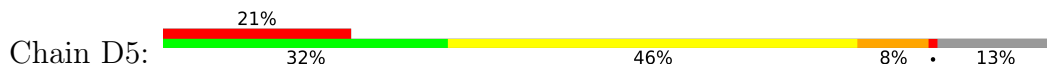
• Molecule 45: 50S ribosomal protein L24

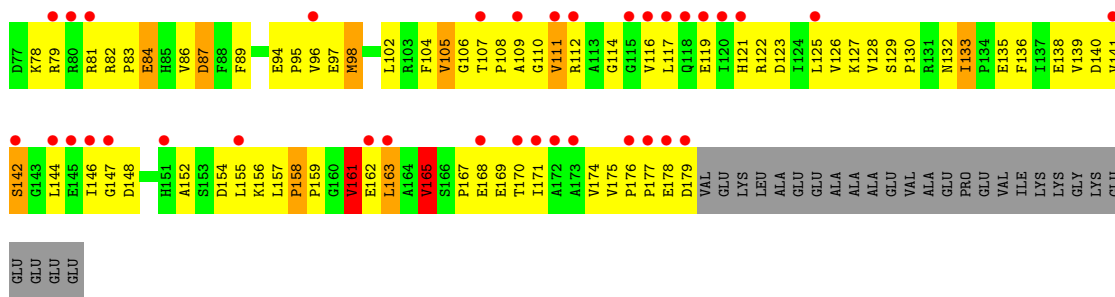


• Molecule 46: 50S ribosomal protein L25

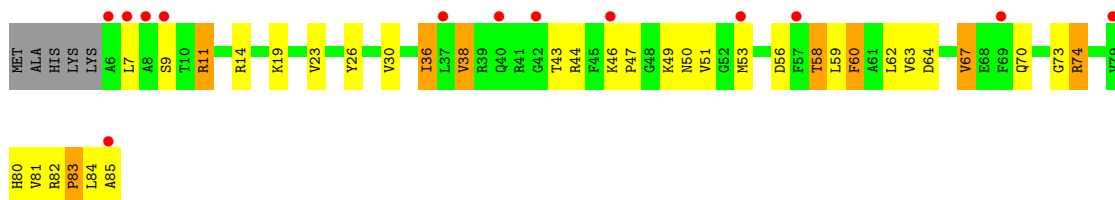


• Molecule 46: 50S ribosomal protein L25

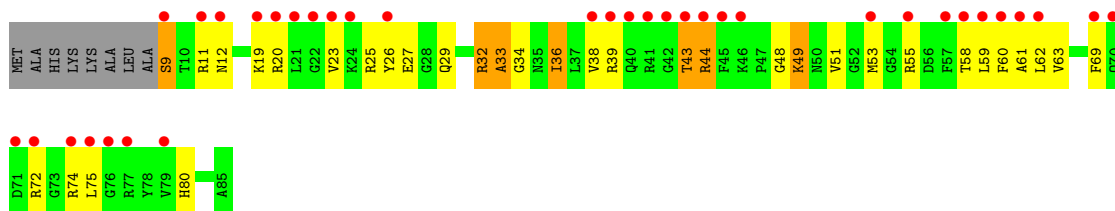
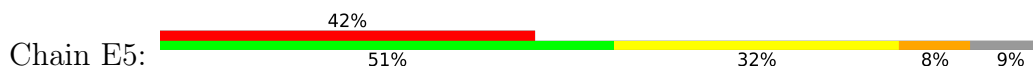




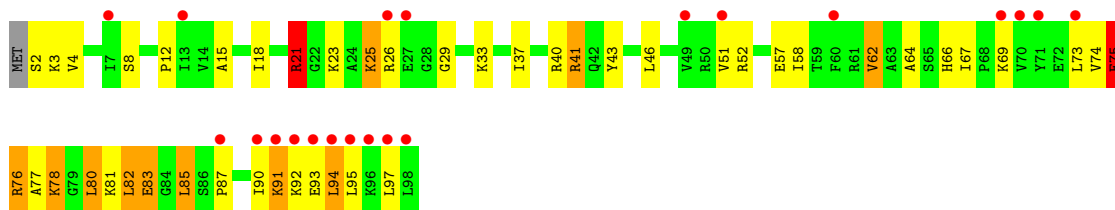
• Molecule 47: 50S ribosomal protein L27



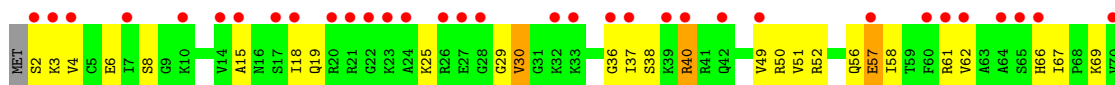
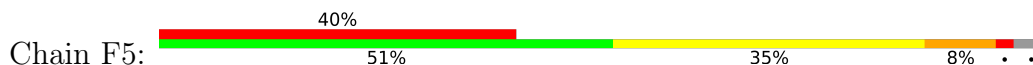
• Molecule 47: 50S ribosomal protein L27

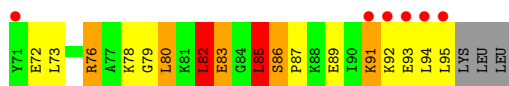


• Molecule 48: 50S ribosomal protein L28

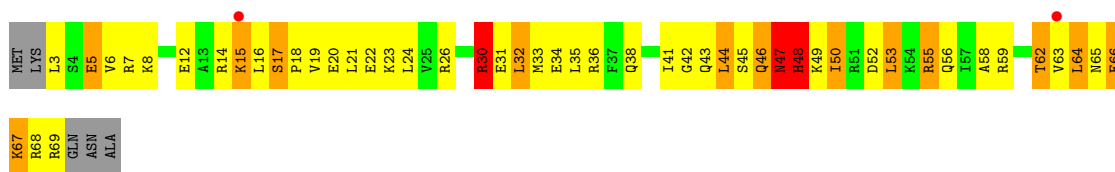


• Molecule 48: 50S ribosomal protein L28

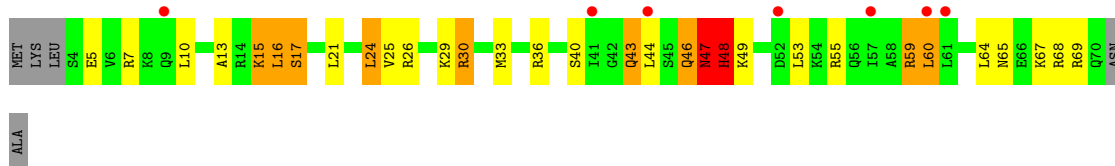




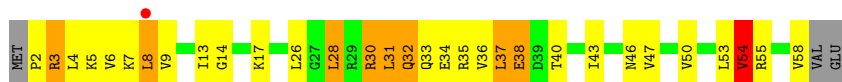
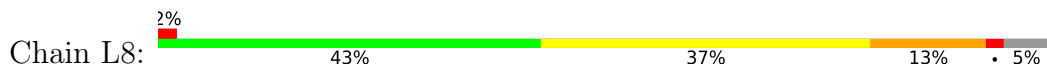
- Molecule 49: 50S ribosomal protein L29



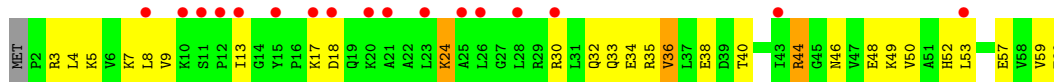
- Molecule 49: 50S ribosomal protein L29



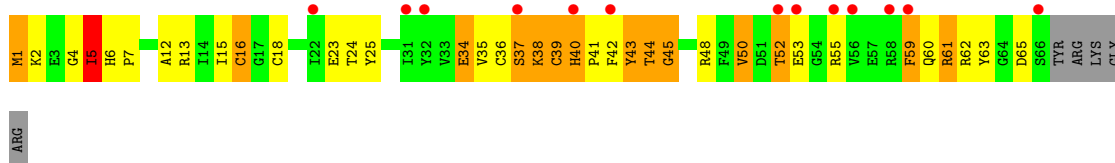
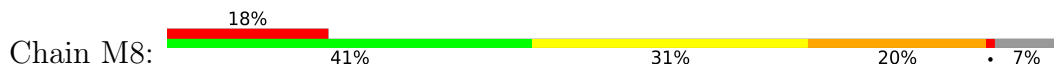
- Molecule 50: 50S ribosomal protein L30



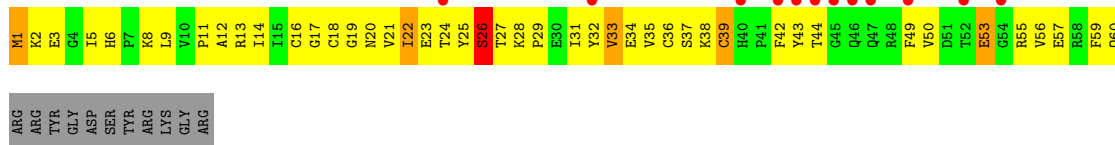
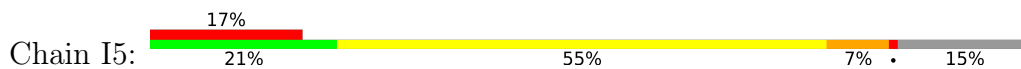
- Molecule 50: 50S ribosomal protein L30



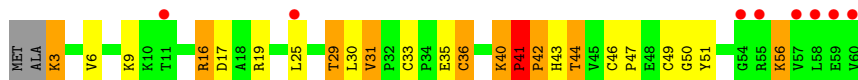
- Molecule 51: 50S ribosomal protein L31



- Molecule 51: 50S ribosomal protein L31



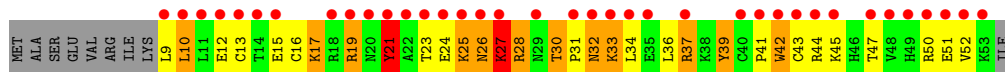
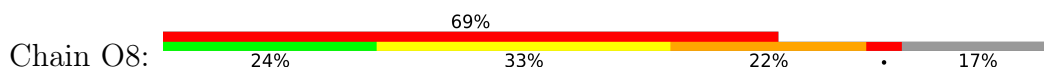
• Molecule 52: 50S ribosomal protein L32



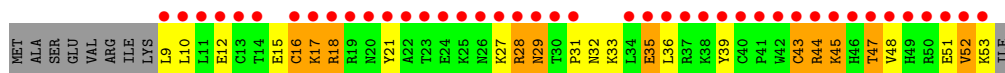
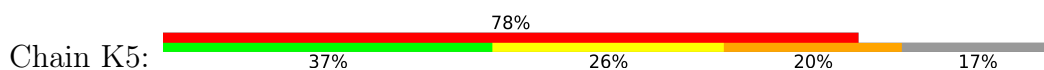
• Molecule 52: 50S ribosomal protein L32



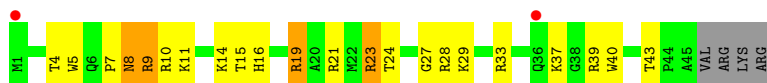
• Molecule 53: 50S ribosomal protein L33



• Molecule 53: 50S ribosomal protein L33

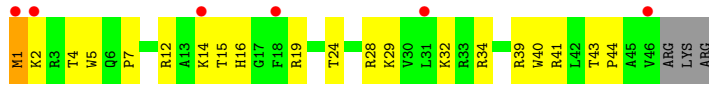


• Molecule 54: 50S ribosomal protein L34

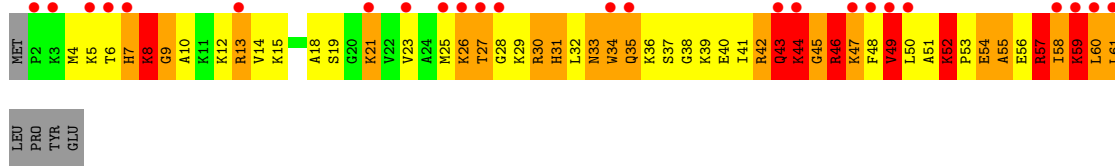


• Molecule 54: 50S ribosomal protein L34

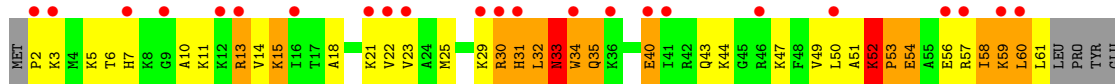




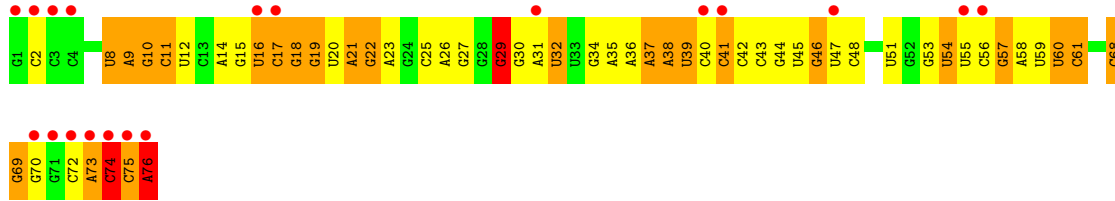
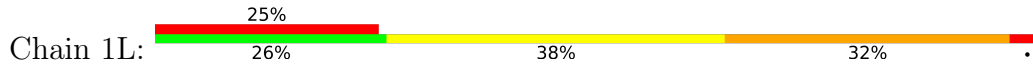
• Molecule 55: 50S ribosomal protein L35



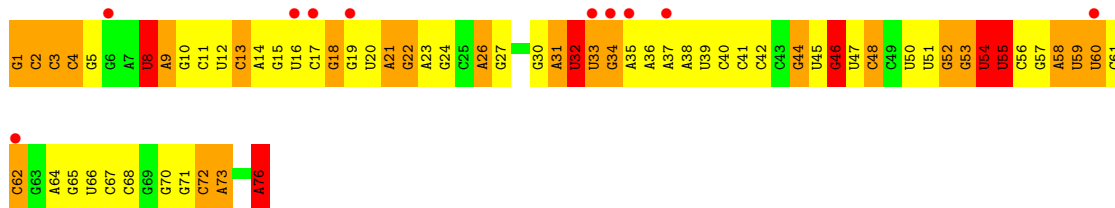
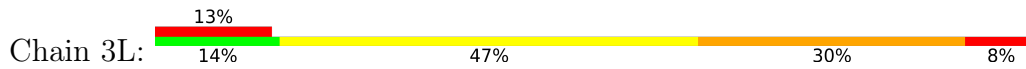
• Molecule 55: 50S ribosomal protein L35



• Molecule 56: tRNA-Phe



• Molecule 57: tRNA-Phe



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.40Å 449.20Å 621.20Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	255.47 – 2.95 255.48 – 2.95	Depositor EDS
% Data completeness (in resolution range)	99.9 (255.47-2.95) 94.1 (255.48-2.95)	Depositor EDS
R_{merge}	0.30	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.89 (at 2.96Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.193 , 0.235 0.194 , 0.235	Depositor DCC
R_{free} test set	1999 reflections (0.16%)	wwPDB-VP
Wilson B-factor (Å ²)	78.0	Xtrriage
Anisotropy	0.287	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 77.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	300252	wwPDB-VP
Average B, all atoms (Å ²)	104.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.47% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, 4SU, 5MU, PAR, PSU, ZN, MIA, 7MG, 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	0.93	27/36052 (0.1%)	1.65	832/56266 (1.5%)
1	1G	0.76	3/36049 (0.0%)	1.45	463/56262 (0.8%)
2	12	0.40	0/1959	0.65	2/2642 (0.1%)
2	1E	0.46	0/1959	0.72	1/2642 (0.0%)
3	22	0.42	0/1636	0.65	1/2205 (0.0%)
3	2E	0.60	0/1629	0.76	0/2195
4	32	0.56	0/1732	0.76	0/2318
4	3E	0.75	2/1732 (0.1%)	0.83	1/2318 (0.0%)
5	42	0.50	0/1171	0.74	1/1576 (0.1%)
5	4E	0.65	0/1171	0.80	0/1576
6	52	0.61	0/855	0.77	1/1154 (0.1%)
6	5E	0.63	0/855	0.78	0/1154
7	62	0.49	0/1261	0.62	0/1689
7	6E	0.55	0/1275	0.68	0/1709
8	72	0.45	0/1135	0.64	0/1527
8	7E	0.62	0/1135	0.83	0/1527
9	82	0.47	0/1002	0.70	0/1346
9	8E	0.54	0/1028	0.75	1/1379 (0.1%)
10	1A	0.41	0/814	0.65	0/1095
10	1I	0.58	0/814	0.73	0/1095
11	2A	0.53	0/879	0.74	1/1187 (0.1%)
11	2I	0.61	0/879	0.80	1/1187 (0.1%)
12	3A	0.62	0/991	0.84	2/1327 (0.2%)
12	3I	0.82	0/991	1.02	3/1327 (0.2%)
13	4A	0.39	0/943	0.63	0/1265
13	4I	0.59	0/948	0.79	1/1272 (0.1%)
14	5A	0.42	0/484	0.69	0/643
14	5I	0.81	1/500 (0.2%)	0.83	0/664
15	6A	0.55	0/744	0.67	1/992 (0.1%)
15	6I	0.62	0/744	0.82	0/992
16	7A	0.59	0/721	0.73	0/970
16	7I	0.58	0/721	0.79	0/970

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	8A	0.60	1/847 (0.1%)	0.70	0/1131
17	8I	0.62	0/847	0.80	0/1131
18	9A	0.57	0/595	0.73	0/790
18	9I	0.61	0/595	0.87	1/790 (0.1%)
19	AA	0.40	0/638	0.64	0/860
19	AI	0.61	0/661	0.87	1/890 (0.1%)
20	BA	0.53	0/764	0.81	0/1007
20	BI	0.48	0/764	0.74	0/1007
21	1B	0.52	0/221	0.64	0/288
21	1F	0.57	0/221	0.81	0/288
22	1K	0.62	3/1673 (0.2%)	1.31	20/2606 (0.8%)
23	2K	1.06	5/1721 (0.3%)	1.71	46/2682 (1.7%)
23	2L	0.81	1/1721 (0.1%)	1.49	33/2682 (1.2%)
24	3K	0.64	1/1712 (0.1%)	1.32	18/2663 (0.7%)
25	4K	1.10	0/313	1.39	1/485 (0.2%)
25	4L	1.01	1/262 (0.4%)	1.64	6/403 (1.5%)
26	14	1.05	136/70167 (0.2%)	1.79	2340/109541 (2.1%)
26	1H	1.28	361/70233 (0.5%)	2.08	3902/109643 (3.6%)
27	16	1.03	6/2928 (0.2%)	1.88	107/4568 (2.3%)
27	1J	0.83	1/2928 (0.0%)	1.52	38/4568 (0.8%)
28	11	0.99	4/2165 (0.2%)	1.09	6/2919 (0.2%)
28	19	0.85	0/2170	1.02	5/2926 (0.2%)
29	21	0.79	0/1601	1.01	4/2160 (0.2%)
29	29	0.75	0/1601	1.02	6/2160 (0.3%)
30	31	0.90	1/1620 (0.1%)	1.05	6/2194 (0.3%)
30	39	0.71	1/1662 (0.1%)	0.96	3/2249 (0.1%)
31	41	0.65	0/1498	0.85	1/2016 (0.0%)
31	49	0.43	0/1498	0.68	0/2016
32	51	0.70	0/1362	0.92	2/1841 (0.1%)
32	59	0.43	0/1332	0.72	1/1802 (0.1%)
33	61	0.57	0/1151	0.83	3/1558 (0.2%)
33	69	0.54	0/1151	0.81	2/1558 (0.1%)
34	15	0.57	0/1131	0.77	0/1525
34	58	0.67	0/1131	0.89	2/1525 (0.1%)
35	25	0.71	0/942	0.88	2/1269 (0.2%)
35	68	0.79	0/942	0.88	1/1269 (0.1%)
36	35	0.76	0/1161	1.19	5/1544 (0.3%)
36	78	0.87	0/1161	1.12	3/1544 (0.2%)
37	45	0.74	1/1142 (0.1%)	0.99	2/1527 (0.1%)
37	88	0.97	3/1106 (0.3%)	1.20	5/1478 (0.3%)
38	55	0.78	0/973	1.02	2/1302 (0.2%)
38	98	0.70	0/981	0.99	1/1312 (0.1%)
39	65	0.61	0/891	0.94	2/1187 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	A8	0.76	0/891	1.01	3/1187 (0.3%)
40	75	0.67	0/1155	0.85	0/1542
40	B8	0.80	0/1155	0.96	2/1542 (0.1%)
41	85	0.66	0/981	0.82	0/1306
41	C8	0.84	1/981 (0.1%)	1.04	3/1306 (0.2%)
42	95	0.71	0/789	0.93	3/1057 (0.3%)
42	D8	0.75	0/789	0.94	1/1057 (0.1%)
43	A5	0.84	1/910 (0.1%)	0.91	0/1220
43	E8	0.78	0/910	0.97	2/1220 (0.2%)
44	B5	0.86	1/749 (0.1%)	0.88	0/1007
44	F8	1.00	1/756 (0.1%)	1.03	3/1014 (0.3%)
45	C5	0.74	0/807	0.97	2/1076 (0.2%)
45	G8	0.84	0/804	1.09	5/1073 (0.5%)
46	D5	0.47	0/1460	0.71	0/1982
46	H8	0.55	0/1427	0.86	3/1935 (0.2%)
47	E5	0.72	0/620	0.88	0/827
47	I8	0.88	0/634	0.97	1/847 (0.1%)
48	F5	0.77	0/744	1.03	2/989 (0.2%)
48	J8	0.87	0/769	0.98	3/1022 (0.3%)
49	G5	0.66	0/565	0.88	0/748
49	K8	1.00	2/565 (0.4%)	1.11	1/748 (0.1%)
50	H5	0.60	0/473	0.77	0/635
50	L8	0.72	0/457	0.99	2/613 (0.3%)
51	I5	0.47	0/492	0.80	0/663
51	M8	0.64	0/545	0.87	1/733 (0.1%)
52	J5	0.73	0/472	0.94	0/639
52	N8	0.74	0/467	0.98	1/632 (0.2%)
53	K5	0.74	0/396	0.98	1/529 (0.2%)
53	O8	0.82	1/396 (0.3%)	1.05	1/529 (0.2%)
54	L5	0.81	0/406	0.94	0/536
54	P8	1.07	0/399	1.26	5/526 (1.0%)
55	M5	1.07	2/483 (0.4%)	1.16	1/634 (0.2%)
55	Q8	1.43	2/486 (0.4%)	1.85	9/638 (1.4%)
56	1L	0.49	0/1717	1.05	5/2674 (0.2%)
57	3L	0.68	2/1698 (0.1%)	1.27	11/2646 (0.4%)
All	All	0.96	572/322340 (0.2%)	1.61	7960/482707 (1.6%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	1E	0	2
4	32	0	2
9	82	0	1
10	1A	0	1
11	2A	0	1
12	3I	0	1
13	4I	0	2
14	5A	0	1
19	AI	0	2
20	BA	0	2
20	BI	0	1
28	11	0	2
28	19	0	5
29	21	0	4
29	29	0	5
30	31	0	3
30	39	0	7
31	41	0	2
31	49	0	1
32	59	0	1
33	61	0	4
33	69	0	3
36	35	0	3
36	78	0	3
37	45	0	6
37	88	0	4
38	55	0	2
38	98	0	2
39	65	0	1
40	75	0	2
40	B8	0	2
41	85	0	2
41	C8	0	1
42	95	0	2
42	D8	0	1
43	A5	0	2
44	B5	0	1
45	C5	0	1
45	G8	0	3
46	D5	0	1
46	H8	0	3
47	I8	0	2
48	F5	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
48	J8	0	2
49	G5	0	4
49	K8	0	2
51	I5	0	1
51	M8	0	2
52	N8	0	1
53	K5	0	4
53	O8	0	2
55	M5	0	3
55	Q8	0	8
All	All	0	127

The worst 5 of 572 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	1H	2430	A	N9-C4	-14.70	1.29	1.37
26	14	783	A	N9-C4	-13.46	1.29	1.37
26	1H	774	A	N9-C4	-13.24	1.29	1.37
26	1H	676	A	N9-C4	-13.22	1.29	1.37
26	1H	783	A	N3-C4	-13.21	1.26	1.34

The worst 5 of 7960 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	1H	783	A	C2-N3-C4	-29.75	95.72	110.60
26	1H	1899	G	N3-C4-N9	-29.71	108.17	126.00
26	1H	945	A	C6-C5-N7	-23.71	115.70	132.30
26	1H	676	A	C2-N3-C4	-23.41	98.89	110.60
26	1H	1899	G	N3-C4-C5	22.92	140.06	128.60

There are no chirality outliers.

5 of 127 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1E	15	VAL	Peptide
2	1E	237	ALA	Peptide
12	3I	87	GLY	Peptide
13	4I	105	THR	Peptide
13	4I	4	ILE	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	13	32207	0	16256	718	0
1	1G	32204	0	16255	829	0
2	12	1924	0	1975	99	0
2	1E	1924	0	1975	100	0
3	22	1612	0	1677	90	0
3	2E	1605	0	1668	52	0
4	32	1702	0	1763	86	0
4	3E	1702	0	1762	62	0
5	42	1155	0	1213	55	0
5	4E	1155	0	1213	53	0
6	52	842	0	857	31	0
6	5E	842	0	857	26	0
7	62	1243	0	1284	58	0
7	6E	1256	0	1296	42	0
8	72	1115	0	1177	41	0
8	7E	1115	0	1177	57	0
9	82	983	0	1006	61	0
9	8E	1009	0	1037	61	0
10	1A	801	0	849	45	0
10	1I	801	0	849	51	0
11	2A	864	0	881	32	0
11	2I	864	0	881	27	0
12	3A	975	0	1062	47	0
12	3I	975	0	1062	48	0
13	4A	933	0	992	64	0
13	4I	938	0	997	56	0
14	5A	475	0	511	29	0
14	5I	491	0	529	24	0
15	6A	733	0	771	33	0
15	6I	733	0	771	28	0
16	7A	705	0	725	29	0
16	7I	705	0	725	53	0
17	8A	834	0	904	22	0
17	8I	834	0	904	33	0
18	9A	590	0	662	18	0
18	9I	590	0	662	26	0
19	AA	624	0	636	44	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	AI	647	0	665	53	0
20	BA	762	0	861	30	0
20	BI	762	0	861	48	0
21	1B	217	0	234	20	0
21	1F	217	0	234	8	0
22	1K	1627	0	836	35	0
23	2K	1646	0	845	27	0
23	2L	1646	0	845	32	0
24	3K	1603	0	824	57	0
25	4K	279	0	142	4	0
25	4L	235	0	121	14	0
26	14	62647	0	31578	1347	0
26	1H	62707	0	31600	1532	1
27	16	2617	0	1328	54	0
27	1J	2617	0	1328	106	0
28	11	2115	0	2195	85	0
28	19	2120	0	2197	88	0
29	21	1568	0	1634	89	0
29	29	1568	0	1634	92	0
30	31	1585	0	1632	93	0
30	39	1627	0	1680	104	0
31	41	1473	0	1535	80	0
31	49	1473	0	1535	62	0
32	51	1336	0	1418	71	0
32	59	1307	0	1382	63	0
33	61	1136	0	1223	54	0
33	69	1136	0	1223	54	0
34	15	1104	0	1180	53	0
34	58	1104	0	1180	54	0
35	25	932	0	996	48	0
35	68	932	0	996	35	0
36	35	1144	0	1228	101	0
36	78	1144	0	1228	98	0
37	45	1121	0	1179	74	0
37	88	1086	0	1129	64	0
38	55	959	0	1021	45	0
38	98	967	0	1033	53	0
39	65	881	0	943	70	0
39	A8	881	0	943	59	0
40	75	1141	0	1202	63	0
40	B8	1141	0	1202	70	0
41	85	963	0	1022	44	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	C8	963	0	1022	85	0
42	95	778	0	852	70	0
42	D8	778	0	852	34	0
43	A5	899	0	964	31	0
43	E8	899	0	964	33	0
44	B5	735	0	785	31	0
44	F8	742	0	803	42	0
45	C5	794	0	883	57	0
45	G8	791	0	882	59	0
46	D5	1428	0	1454	70	0
46	H8	1397	0	1430	84	0
47	E5	612	0	633	30	0
47	I8	626	0	642	26	0
48	F5	737	0	813	32	0
48	J8	762	0	848	37	0
49	G5	563	0	612	21	1
49	K8	563	0	612	36	0
50	H5	468	0	518	13	0
50	L8	452	0	503	21	0
51	I5	481	0	479	46	0
51	M8	533	0	526	43	0
52	J5	458	0	480	32	0
52	N8	453	0	475	28	0
53	K5	389	0	404	21	0
53	O8	389	0	404	28	0
54	L5	398	0	441	17	0
54	P8	391	0	432	17	0
55	M5	477	0	540	45	0
55	Q8	480	0	549	95	0
56	1L	1627	0	836	40	0
57	3L	1624	0	827	68	0
58	11	4	0	0	0	0
58	13	148	0	0	0	0
58	14	407	0	0	0	0
58	16	13	0	0	0	0
58	1G	96	0	0	0	0
58	1H	520	0	0	0	0
58	1J	5	0	0	0	0
58	1K	2	0	0	0	0
58	21	2	0	0	0	0
58	25	1	0	0	0	0
58	29	4	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	2A	2	0	0	0	0
58	2I	1	0	0	0	0
58	2K	5	0	0	0	0
58	2L	3	0	0	0	0
58	3E	2	0	0	0	0
58	3K	1	0	0	0	0
58	3L	2	0	0	0	0
58	4I	2	0	0	0	0
58	49	1	0	0	0	0
58	4K	1	0	0	0	0
58	55	1	0	0	0	0
58	5E	1	0	0	0	0
58	5I	2	0	0	0	0
58	78	1	0	0	0	0
58	7A	1	0	0	0	0
58	88	2	0	0	0	0
58	98	2	0	0	0	0
58	C5	1	0	0	0	0
58	G8	1	0	0	0	0
58	I8	1	0	0	0	0
58	J5	1	0	0	0	0
58	L8	1	0	0	0	0
58	P8	1	0	0	0	0
59	13	42	0	45	1	0
59	1G	42	0	45	2	0
60	32	1	0	0	0	0
60	3E	1	0	0	0	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	11	13	0	0	3	0
61	13	197	0	0	29	0
61	14	598	0	0	153	0
61	16	21	0	0	4	0
61	19	13	0	0	3	0
61	1G	82	0	0	18	0
61	1H	999	0	0	280	0
61	1I	2	0	0	1	0
61	1K	5	0	0	0	0
61	21	4	0	0	0	0
61	2K	6	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	3I	4	0	0	0	0
61	35	1	0	0	0	0
61	39	7	0	0	1	0
61	3E	3	0	0	0	0
61	3I	1	0	0	0	0
61	3K	1	0	0	0	0
61	3L	6	0	0	1	0
61	4K	2	0	0	0	0
61	58	2	0	0	0	0
61	5I	2	0	0	1	0
61	6I	1	0	0	0	0
61	78	5	0	0	1	0
61	7A	1	0	0	0	0
61	7I	1	0	0	0	0
61	85	1	0	0	0	0
61	8E	2	0	0	0	0
61	A5	1	0	0	0	0
61	B8	1	0	0	0	0
61	BA	1	0	0	0	0
61	C8	3	0	0	0	0
61	D8	1	0	0	0	0
61	G5	1	0	0	0	0
61	G8	4	0	0	1	0
61	I8	7	0	0	0	0
61	L5	1	0	0	0	0
61	L8	1	0	0	1	0
61	P8	1	0	0	0	0
61	Q8	2	0	0	0	0
All	All	300252	0	200448	8632	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 18.

The worst 5 of 8632 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2701:C:H3'	26:14:2702:U:H5''	1.27	1.15
26:1H:2592:G:OP1	61:1H:4524:HOH:O	1.68	1.10
40:B8:50:ILE:HD11	40:B8:102:ILE:HD11	1.32	1.10
26:1H:1614:A:OP1	61:1H:3947:HOH:O	1.70	1.09
26:1H:945:A:OP1	61:1H:4167:HOH:O	1.70	1.09

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:277:C:O2'	49:G5:49:LYS:NZ[2_564]	2.14	0.06

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	12	235/256 (92%)	192 (82%)	37 (16%)	6 (3%)	5	24
2	1E	235/256 (92%)	197 (84%)	37 (16%)	1 (0%)	34	69
3	22	204/239 (85%)	180 (88%)	23 (11%)	1 (0%)	29	64
3	2E	203/239 (85%)	184 (91%)	19 (9%)	0	100	100
4	32	206/209 (99%)	179 (87%)	25 (12%)	2 (1%)	15	48
4	3E	206/209 (99%)	192 (93%)	12 (6%)	2 (1%)	15	48
5	42	149/162 (92%)	140 (94%)	9 (6%)	0	100	100
5	4E	149/162 (92%)	140 (94%)	8 (5%)	1 (1%)	22	56
6	52	99/101 (98%)	96 (97%)	3 (3%)	0	100	100
6	5E	99/101 (98%)	92 (93%)	7 (7%)	0	100	100
7	62	148/156 (95%)	137 (93%)	11 (7%)	0	100	100
7	6E	153/156 (98%)	144 (94%)	9 (6%)	0	100	100
8	72	136/138 (99%)	122 (90%)	12 (9%)	2 (2%)	10	38
8	7E	136/138 (99%)	125 (92%)	10 (7%)	1 (1%)	22	56
9	82	122/128 (95%)	113 (93%)	8 (7%)	1 (1%)	19	53
9	8E	125/128 (98%)	105 (84%)	19 (15%)	1 (1%)	19	53
10	1A	97/105 (92%)	88 (91%)	9 (9%)	0	100	100
10	1I	97/105 (92%)	89 (92%)	8 (8%)	0	100	100
11	2A	114/129 (88%)	102 (90%)	8 (7%)	4 (4%)	3	17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	2I	114/129 (88%)	99 (87%)	14 (12%)	1 (1%)	17	51
12	3A	123/132 (93%)	101 (82%)	18 (15%)	4 (3%)	4	18
12	3I	123/132 (93%)	103 (84%)	20 (16%)	0	100	100
13	4A	115/126 (91%)	96 (84%)	18 (16%)	1 (1%)	17	51
13	4I	116/126 (92%)	96 (83%)	19 (16%)	1 (1%)	17	51
14	5A	56/61 (92%)	46 (82%)	9 (16%)	1 (2%)	8	33
14	5I	58/61 (95%)	47 (81%)	9 (16%)	2 (3%)	3	17
15	6A	86/89 (97%)	79 (92%)	7 (8%)	0	100	100
15	6I	86/89 (97%)	79 (92%)	7 (8%)	0	100	100
16	7A	82/88 (93%)	75 (92%)	7 (8%)	0	100	100
16	7I	82/88 (93%)	75 (92%)	7 (8%)	0	100	100
17	8A	98/105 (93%)	91 (93%)	7 (7%)	0	100	100
17	8I	98/105 (93%)	94 (96%)	4 (4%)	0	100	100
18	9A	70/88 (80%)	65 (93%)	5 (7%)	0	100	100
18	9I	70/88 (80%)	63 (90%)	6 (9%)	1 (1%)	11	39
19	AA	76/93 (82%)	59 (78%)	15 (20%)	2 (3%)	5	24
19	AI	79/93 (85%)	65 (82%)	11 (14%)	3 (4%)	3	15
20	BA	97/106 (92%)	84 (87%)	12 (12%)	1 (1%)	15	48
20	BI	97/106 (92%)	86 (89%)	10 (10%)	1 (1%)	15	48
21	1B	23/27 (85%)	21 (91%)	2 (9%)	0	100	100
21	1F	23/27 (85%)	22 (96%)	1 (4%)	0	100	100
28	11	270/276 (98%)	253 (94%)	12 (4%)	5 (2%)	8	32
28	19	271/276 (98%)	248 (92%)	16 (6%)	7 (3%)	5	24
29	21	203/206 (98%)	164 (81%)	30 (15%)	9 (4%)	2	12
29	29	203/206 (98%)	156 (77%)	35 (17%)	12 (6%)	1	7
30	31	200/210 (95%)	182 (91%)	15 (8%)	3 (2%)	10	38
30	39	206/210 (98%)	165 (80%)	34 (16%)	7 (3%)	3	17
31	41	179/182 (98%)	156 (87%)	21 (12%)	2 (1%)	14	46
31	49	179/182 (98%)	155 (87%)	22 (12%)	2 (1%)	14	46
32	51	172/180 (96%)	146 (85%)	18 (10%)	8 (5%)	2	11
32	59	168/180 (93%)	131 (78%)	30 (18%)	7 (4%)	3	13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
33	61	144/148 (97%)	117 (81%)	23 (16%)	4 (3%)	5	22
33	69	144/148 (97%)	112 (78%)	29 (20%)	3 (2%)	7	29
34	15	136/140 (97%)	120 (88%)	15 (11%)	1 (1%)	22	56
34	58	136/140 (97%)	116 (85%)	16 (12%)	4 (3%)	4	21
35	25	120/122 (98%)	110 (92%)	8 (7%)	2 (2%)	9	34
35	68	120/122 (98%)	113 (94%)	7 (6%)	0	100	100
36	35	148/150 (99%)	117 (79%)	27 (18%)	4 (3%)	5	23
36	78	148/150 (99%)	113 (76%)	29 (20%)	6 (4%)	3	13
37	45	139/141 (99%)	111 (80%)	27 (19%)	1 (1%)	22	56
37	88	134/141 (95%)	112 (84%)	15 (11%)	7 (5%)	2	9
38	55	115/118 (98%)	108 (94%)	5 (4%)	2 (2%)	9	34
38	98	116/118 (98%)	104 (90%)	10 (9%)	2 (2%)	9	34
39	65	109/112 (97%)	88 (81%)	18 (16%)	3 (3%)	5	22
39	A8	109/112 (97%)	91 (84%)	16 (15%)	2 (2%)	8	33
40	75	135/146 (92%)	115 (85%)	17 (13%)	3 (2%)	6	28
40	B8	135/146 (92%)	119 (88%)	15 (11%)	1 (1%)	22	56
41	85	115/118 (98%)	102 (89%)	12 (10%)	1 (1%)	17	51
41	C8	115/118 (98%)	104 (90%)	9 (8%)	2 (2%)	9	34
42	95	99/101 (98%)	77 (78%)	17 (17%)	5 (5%)	2	9
42	D8	99/101 (98%)	94 (95%)	4 (4%)	1 (1%)	15	48
43	A5	111/113 (98%)	102 (92%)	7 (6%)	2 (2%)	8	33
43	E8	111/113 (98%)	100 (90%)	11 (10%)	0	100	100
44	B5	92/96 (96%)	83 (90%)	5 (5%)	4 (4%)	2	12
44	F8	92/96 (96%)	83 (90%)	7 (8%)	2 (2%)	6	28
45	C5	102/110 (93%)	75 (74%)	21 (21%)	6 (6%)	1	7
45	G8	102/110 (93%)	80 (78%)	15 (15%)	7 (7%)	1	4
46	D5	177/206 (86%)	134 (76%)	33 (19%)	10 (6%)	2	8
46	H8	173/206 (84%)	142 (82%)	25 (14%)	6 (4%)	3	17
47	E5	75/85 (88%)	67 (89%)	6 (8%)	2 (3%)	5	23
47	I8	78/85 (92%)	68 (87%)	9 (12%)	1 (1%)	12	41
48	F5	92/98 (94%)	87 (95%)	4 (4%)	1 (1%)	14	46

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
48	J8	95/98 (97%)	85 (90%)	8 (8%)	2 (2%)	7	29
49	G5	65/72 (90%)	61 (94%)	2 (3%)	2 (3%)	4	19
49	K8	65/72 (90%)	58 (89%)	4 (6%)	3 (5%)	2	11
50	H5	57/60 (95%)	53 (93%)	4 (7%)	0	100	100
50	L8	55/60 (92%)	51 (93%)	3 (6%)	1 (2%)	8	33
51	I5	58/71 (82%)	29 (50%)	25 (43%)	4 (7%)	1	4
51	M8	64/71 (90%)	43 (67%)	18 (28%)	3 (5%)	2	11
52	J5	57/60 (95%)	48 (84%)	8 (14%)	1 (2%)	8	33
52	N8	56/60 (93%)	48 (86%)	6 (11%)	2 (4%)	3	16
53	K5	43/54 (80%)	27 (63%)	14 (33%)	2 (5%)	2	11
53	O8	43/54 (80%)	28 (65%)	13 (30%)	2 (5%)	2	11
54	L5	44/49 (90%)	42 (96%)	2 (4%)	0	100	100
54	P8	43/49 (88%)	41 (95%)	2 (5%)	0	100	100
55	M5	58/65 (89%)	49 (84%)	6 (10%)	3 (5%)	2	9
55	Q8	58/65 (89%)	30 (52%)	21 (36%)	7 (12%)	0	1
All	All	11318/12054 (94%)	9776 (86%)	1313 (12%)	229 (2%)	7	30

5 of 229 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
29	21	83	ASP
36	78	57	THR
41	C8	89	GLU
41	C8	90	VAL
45	G8	54	LYS

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	12	205/220 (93%)	161 (78%)	44 (22%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	1E	205/220 (93%)	161 (78%)	44 (22%)	1	4
3	22	160/188 (85%)	128 (80%)	32 (20%)	1	5
3	2E	159/188 (85%)	128 (80%)	31 (20%)	1	6
4	32	180/181 (99%)	150 (83%)	30 (17%)	2	9
4	3E	180/181 (99%)	139 (77%)	41 (23%)	1	3
5	42	116/123 (94%)	90 (78%)	26 (22%)	1	3
5	4E	116/123 (94%)	94 (81%)	22 (19%)	1	6
6	52	90/90 (100%)	71 (79%)	19 (21%)	1	4
6	5E	90/90 (100%)	77 (86%)	13 (14%)	3	13
7	62	126/127 (99%)	106 (84%)	20 (16%)	2	10
7	6E	126/127 (99%)	101 (80%)	25 (20%)	1	6
8	72	119/119 (100%)	99 (83%)	20 (17%)	2	9
8	7E	119/119 (100%)	95 (80%)	24 (20%)	1	5
9	82	95/99 (96%)	79 (83%)	16 (17%)	2	9
9	8E	98/99 (99%)	73 (74%)	25 (26%)	0	2
10	1A	89/92 (97%)	70 (79%)	19 (21%)	1	4
10	1I	89/92 (97%)	72 (81%)	17 (19%)	1	6
11	2A	88/99 (89%)	72 (82%)	16 (18%)	1	7
11	2I	88/99 (89%)	72 (82%)	16 (18%)	1	7
12	3A	104/109 (95%)	81 (78%)	23 (22%)	1	3
12	3I	104/109 (95%)	89 (86%)	15 (14%)	3	13
13	4A	94/101 (93%)	70 (74%)	24 (26%)	0	2
13	4I	94/101 (93%)	73 (78%)	21 (22%)	1	3
14	5A	48/50 (96%)	40 (83%)	8 (17%)	2	9
14	5I	49/50 (98%)	36 (74%)	13 (26%)	0	2
15	6A	79/80 (99%)	66 (84%)	13 (16%)	2	9
15	6I	79/80 (99%)	65 (82%)	14 (18%)	2	8
16	7A	72/74 (97%)	64 (89%)	8 (11%)	6	22
16	7I	72/74 (97%)	58 (81%)	14 (19%)	1	6
17	8A	95/97 (98%)	81 (85%)	14 (15%)	3	12
17	8I	95/97 (98%)	76 (80%)	19 (20%)	1	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	9A	63/77 (82%)	52 (82%)	11 (18%)	2	8
18	9I	63/77 (82%)	55 (87%)	8 (13%)	4	17
19	AA	67/80 (84%)	50 (75%)	17 (25%)	0	2
19	AI	70/80 (88%)	53 (76%)	17 (24%)	0	2
20	BA	76/82 (93%)	64 (84%)	12 (16%)	2	10
20	BI	76/82 (93%)	62 (82%)	14 (18%)	1	7
21	1B	20/22 (91%)	18 (90%)	2 (10%)	7	26
21	1F	20/22 (91%)	19 (95%)	1 (5%)	24	57
28	11	214/218 (98%)	173 (81%)	41 (19%)	1	6
28	19	214/218 (98%)	169 (79%)	45 (21%)	1	4
29	21	165/166 (99%)	124 (75%)	41 (25%)	0	2
29	29	165/166 (99%)	123 (74%)	42 (26%)	0	2
30	31	161/166 (97%)	128 (80%)	33 (20%)	1	5
30	39	165/166 (99%)	127 (77%)	38 (23%)	1	3
31	41	155/156 (99%)	120 (77%)	35 (23%)	1	3
31	49	155/156 (99%)	124 (80%)	31 (20%)	1	5
32	51	145/148 (98%)	108 (74%)	37 (26%)	0	2
32	59	142/148 (96%)	109 (77%)	33 (23%)	1	3
33	61	122/124 (98%)	88 (72%)	34 (28%)	0	1
33	69	122/124 (98%)	88 (72%)	34 (28%)	0	1
34	15	117/119 (98%)	91 (78%)	26 (22%)	1	3
34	58	117/119 (98%)	94 (80%)	23 (20%)	1	6
35	25	100/100 (100%)	79 (79%)	21 (21%)	1	4
35	68	100/100 (100%)	85 (85%)	15 (15%)	3	12
36	35	116/116 (100%)	84 (72%)	32 (28%)	0	1
36	78	116/116 (100%)	78 (67%)	38 (33%)	0	1
37	45	111/111 (100%)	86 (78%)	25 (22%)	1	3
37	88	104/111 (94%)	78 (75%)	26 (25%)	0	2
38	55	100/101 (99%)	79 (79%)	21 (21%)	1	4
38	98	101/101 (100%)	73 (72%)	28 (28%)	0	1
39	65	87/88 (99%)	64 (74%)	23 (26%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	A8	87/88 (99%)	57 (66%)	30 (34%)	0	1
40	75	120/127 (94%)	87 (72%)	33 (28%)	0	1
40	B8	120/127 (94%)	82 (68%)	38 (32%)	0	1
41	85	93/94 (99%)	73 (78%)	20 (22%)	1	4
41	C8	93/94 (99%)	80 (86%)	13 (14%)	3	14
42	95	82/82 (100%)	58 (71%)	24 (29%)	0	1
42	D8	82/82 (100%)	68 (83%)	14 (17%)	2	8
43	A5	92/92 (100%)	71 (77%)	21 (23%)	1	3
43	E8	92/92 (100%)	68 (74%)	24 (26%)	0	2
44	B5	74/78 (95%)	58 (78%)	16 (22%)	1	4
44	F8	76/78 (97%)	60 (79%)	16 (21%)	1	4
45	C5	85/91 (93%)	63 (74%)	22 (26%)	0	2
45	G8	85/91 (93%)	62 (73%)	23 (27%)	0	1
46	D5	158/179 (88%)	123 (78%)	35 (22%)	1	3
46	H8	154/179 (86%)	121 (79%)	33 (21%)	1	4
47	E5	62/67 (92%)	53 (86%)	9 (14%)	3	13
47	I8	61/67 (91%)	48 (79%)	13 (21%)	1	4
48	F5	79/83 (95%)	62 (78%)	17 (22%)	1	4
48	J8	82/83 (99%)	65 (79%)	17 (21%)	1	4
49	G5	62/67 (92%)	44 (71%)	18 (29%)	0	1
49	K8	62/67 (92%)	37 (60%)	25 (40%)	0	0
50	H5	51/52 (98%)	37 (72%)	14 (28%)	0	1
50	L8	49/52 (94%)	35 (71%)	14 (29%)	0	1
51	I5	54/63 (86%)	44 (82%)	10 (18%)	1	7
51	M8	59/63 (94%)	42 (71%)	17 (29%)	0	1
52	J5	51/52 (98%)	39 (76%)	12 (24%)	1	3
52	N8	51/52 (98%)	39 (76%)	12 (24%)	1	3
53	K5	44/52 (85%)	36 (82%)	8 (18%)	1	7
53	O8	44/52 (85%)	29 (66%)	15 (34%)	0	1
54	L5	39/42 (93%)	33 (85%)	6 (15%)	2	11
54	P8	38/42 (90%)	32 (84%)	6 (16%)	2	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
55	M5	49/55 (89%)	34 (69%)	15 (31%)	0	1
55	Q8	50/55 (91%)	32 (64%)	18 (36%)	0	1
All	All	9552/9998 (96%)	7454 (78%)	2098 (22%)	1	4

5 of 2098 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
41	85	5	LYS
43	A5	90	ARG
40	75	136	GLN
54	L5	14	LYS
40	B8	11	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 23 such sidechains are listed below:

Mol	Chain	Res	Type
15	6A	53	HIS
34	15	128	HIS
33	69	104	GLN
37	45	89	ASN
41	C8	75	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1495/1522 (98%)	329 (22%)	34 (2%)
1	1G	1495/1522 (98%)	353 (23%)	37 (2%)
22	1K	74/76 (97%)	33 (44%)	3 (4%)
23	2K	76/77 (98%)	21 (27%)	2 (2%)
23	2L	76/77 (98%)	16 (21%)	1 (1%)
24	3K	72/76 (94%)	40 (55%)	6 (8%)
25	4K	12/30 (40%)	4 (33%)	0
25	4L	10/30 (33%)	3 (30%)	1 (10%)
26	14	2908/2917 (99%)	721 (24%)	52 (1%)
26	1H	2911/2917 (99%)	701 (24%)	51 (1%)
27	16	121/122 (99%)	27 (22%)	1 (0%)
27	1J	121/122 (99%)	35 (28%)	2 (1%)
56	1L	74/76 (97%)	34 (45%)	3 (4%)
57	3L	75/76 (98%)	37 (49%)	4 (5%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
All	All	9520/9640 (98%)	2354 (24%)	197 (2%)

5 of 2354 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	5	U
1	13	6	G
1	13	7	G
1	13	8	A
1	13	21	G

5 of 197 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1G	793	U
26	14	34	C
1	1G	992	U
1	1G	1346	A
26	14	503	A

5.4 Non-standard residues in protein, DNA, RNA chains

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	PSU	1K	32	58,22	18,21,22	1.47	2 (11%)	22,30,33	1.72	4 (18%)
22	PSU	1K	55	22	18,21,22	1.39	2 (11%)	22,30,33	1.37	4 (18%)
23	4SU	2K	8	23	18,21,22	1.72	3 (16%)	26,30,33	3.12	5 (19%)
23	5MU	2K	55	58,23	19,22,23	3.98	5 (26%)	28,32,35	3.39	8 (28%)
23	PSU	2K	56	23	18,21,22	1.04	1 (5%)	22,30,33	2.02	4 (18%)
23	OMC	2L	33	23	19,22,23	1.82	3 (15%)	26,31,34	1.29	4 (15%)
22	5MU	1K	54	22	19,22,23	3.93	5 (26%)	28,32,35	3.19	9 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
57	7MG	3L	46	57	22,26,27	3.41	6 (27%)	29,39,42	2.82	12 (41%)
22	MIA	1K	37	22	24,31,32	2.49	4 (16%)	26,44,47	3.34	7 (26%)
22	4SU	1K	8	22	18,21,22	1.82	5 (27%)	26,30,33	2.15	5 (19%)
23	4SU	2L	8	23	18,21,22	1.97	5 (27%)	26,30,33	2.44	5 (19%)
57	PSU	3L	55	57	18,21,22	1.24	1 (5%)	22,30,33	1.46	4 (18%)
23	PSU	2L	56	23	18,21,22	1.43	2 (11%)	22,30,33	1.74	2 (9%)
24	MIA	3K	37	58,24	24,31,32	2.57	5 (20%)	26,44,47	2.48	8 (30%)
57	4SU	3L	8	57	18,21,22	2.05	5 (27%)	26,30,33	1.97	5 (19%)
24	PSU	3K	39	24	18,21,22	1.23	1 (5%)	22,30,33	1.47	3 (13%)
23	7MG	2L	47	23	22,26,27	3.24	5 (22%)	29,39,42	2.74	12 (41%)
56	PSU	1L	32	56	18,21,22	1.22	1 (5%)	22,30,33	1.73	5 (22%)
56	MIA	1L	37	56	24,31,32	2.41	4 (16%)	26,44,47	3.20	7 (26%)
56	PSU	1L	39	56	18,21,22	1.09	1 (5%)	22,30,33	1.46	3 (13%)
56	5MU	1L	54	56	19,22,23	4.04	5 (26%)	28,32,35	3.07	7 (25%)
24	PSU	3K	32	24	18,21,22	1.31	1 (5%)	22,30,33	1.72	4 (18%)
22	PSU	1K	39	22	18,21,22	1.16	1 (5%)	22,30,33	1.76	3 (13%)
23	OMC	2K	33	23	19,22,23	1.93	3 (15%)	26,31,34	1.14	2 (7%)
57	PSU	3L	32	57	18,21,22	1.28	2 (11%)	22,30,33	1.99	7 (31%)
23	5MU	2L	55	23	19,22,23	4.06	5 (26%)	28,32,35	3.41	11 (39%)
23	7MG	2K	47	23	22,26,27	3.10	6 (27%)	29,39,42	2.60	10 (34%)
57	5MU	3L	54	57	19,22,23	3.96	5 (26%)	28,32,35	3.03	11 (39%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	PSU	1K	32	58,22	-	0/7/25/26	0/2/2/2
22	PSU	1K	55	22	-	3/7/25/26	0/2/2/2
23	4SU	2K	8	23	-	0/7/25/26	0/2/2/2
23	5MU	2K	55	58,23	-	0/7/25/26	0/2/2/2
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2
23	OMC	2L	33	23	-	0/9/27/28	0/2/2/2
22	5MU	1K	54	22	-	0/7/25/26	0/2/2/2
57	7MG	3L	46	57	-	0/7/37/38	0/3/3/3
22	MIA	1K	37	22	-	2/11/33/34	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	4SU	1K	8	22	-	0/7/25/26	0/2/2/2
23	4SU	2L	8	23	-	2/7/25/26	0/2/2/2
57	PSU	3L	55	57	-	2/7/25/26	0/2/2/2
23	PSU	2L	56	23	-	0/7/25/26	0/2/2/2
24	MIA	3K	37	58,24	-	6/11/33/34	0/3/3/3
57	4SU	3L	8	57	-	0/7/25/26	0/2/2/2
24	PSU	3K	39	24	-	4/7/25/26	0/2/2/2
23	7MG	2L	47	23	-	0/7/37/38	0/3/3/3
56	PSU	1L	32	56	-	1/7/25/26	0/2/2/2
56	MIA	1L	37	56	-	9/11/33/34	0/3/3/3
56	PSU	1L	39	56	-	0/7/25/26	0/2/2/2
56	5MU	1L	54	56	-	0/7/25/26	0/2/2/2
24	PSU	3K	32	24	-	2/7/25/26	0/2/2/2
22	PSU	1K	39	22	-	0/7/25/26	0/2/2/2
23	OMC	2K	33	23	-	0/9/27/28	0/2/2/2
57	PSU	3L	32	57	-	1/7/25/26	0/2/2/2
23	5MU	2L	55	23	-	3/7/25/26	0/2/2/2
23	7MG	2K	47	23	-	2/7/37/38	0/3/3/3
57	5MU	3L	54	57	-	2/7/25/26	0/2/2/2

The worst 5 of 94 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2K	55	5MU	C2-N1	13.10	1.59	1.38
56	1L	54	5MU	C2-N1	13.08	1.59	1.38
23	2L	55	5MU	C2-N1	13.02	1.59	1.38
22	1K	54	5MU	C2-N1	12.17	1.58	1.38
57	3L	54	5MU	C2-N1	12.03	1.57	1.38

The worst 5 of 171 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	1K	37	MIA	C11-S10-C2	11.81	111.09	102.27
22	1K	54	5MU	C5-C4-N3	11.34	124.99	115.31
23	2K	55	5MU	C5-C4-N3	11.22	124.89	115.31
56	1L	37	MIA	C11-S10-C2	11.02	110.49	102.27
56	1L	54	5MU	C5-C4-N3	10.39	124.18	115.31

There are no chirality outliers.

5 of 39 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
24	3K	32	PSU	C2'-C1'-C5-C6
24	3K	37	MIA	C4'-C5'-O5'-P
24	3K	37	MIA	O4'-C4'-C5'-O5'
24	3K	37	MIA	C3'-C4'-C5'-O5'
24	3K	37	MIA	C5-C6-N6-C12

There are no ring outliers.

22 monomers are involved in 43 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	1K	55	PSU	1	0
23	2K	8	4SU	1	0
23	2K	55	5MU	3	0
23	2K	56	PSU	2	0
23	2L	33	OMC	2	0
22	1K	54	5MU	1	0
57	3L	46	7MG	3	0
22	1K	8	4SU	1	0
23	2L	8	4SU	2	0
57	3L	55	PSU	2	0
23	2L	56	PSU	2	0
24	3K	37	MIA	2	0
57	3L	8	4SU	5	0
24	3K	39	PSU	2	0
23	2L	47	7MG	3	0
56	1L	37	MIA	1	0
56	1L	39	PSU	1	0
56	1L	54	5MU	2	0
57	3L	32	PSU	3	0
23	2L	55	5MU	2	0
23	2K	47	7MG	3	0
57	3L	54	5MU	2	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1246 ligands modelled in this entry, 1244 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	PAR	1G	1697	-	45,45,45	0.87	3 (6%)	64,67,67	1.64	15 (23%)
59	PAR	13	1749	-	45,45,45	0.71	1 (2%)	64,67,67	1.59	15 (23%)

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	PAR	1G	1697	-	-	5/18/94/94	0/4/4/4
59	PAR	13	1749	-	-	5/18/94/94	0/4/4/4

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	1G	1697	PAR	C24-N24	-2.79	1.43	1.47
59	1G	1697	PAR	C34-C24	-2.37	1.50	1.53
59	1G	1697	PAR	C31-C21	-2.02	1.51	1.53
59	13	1749	PAR	C21-N21	-2.02	1.44	1.47

The worst 5 of 30 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	1G	1697	PAR	C13-O52-C52	-4.53	106.75	117.96
59	1G	1697	PAR	C14-O33-C33	-4.08	107.88	117.96
59	13	1749	PAR	C14-O54-C54	3.94	121.42	113.69
59	1G	1697	PAR	C34-C24-N24	-3.36	104.17	111.05
59	1G	1697	PAR	O11-C11-C21	-3.31	102.51	108.22

There are no chirality outliers.

5 of 10 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
59	13	1749	PAR	C33-C43-C53-O53

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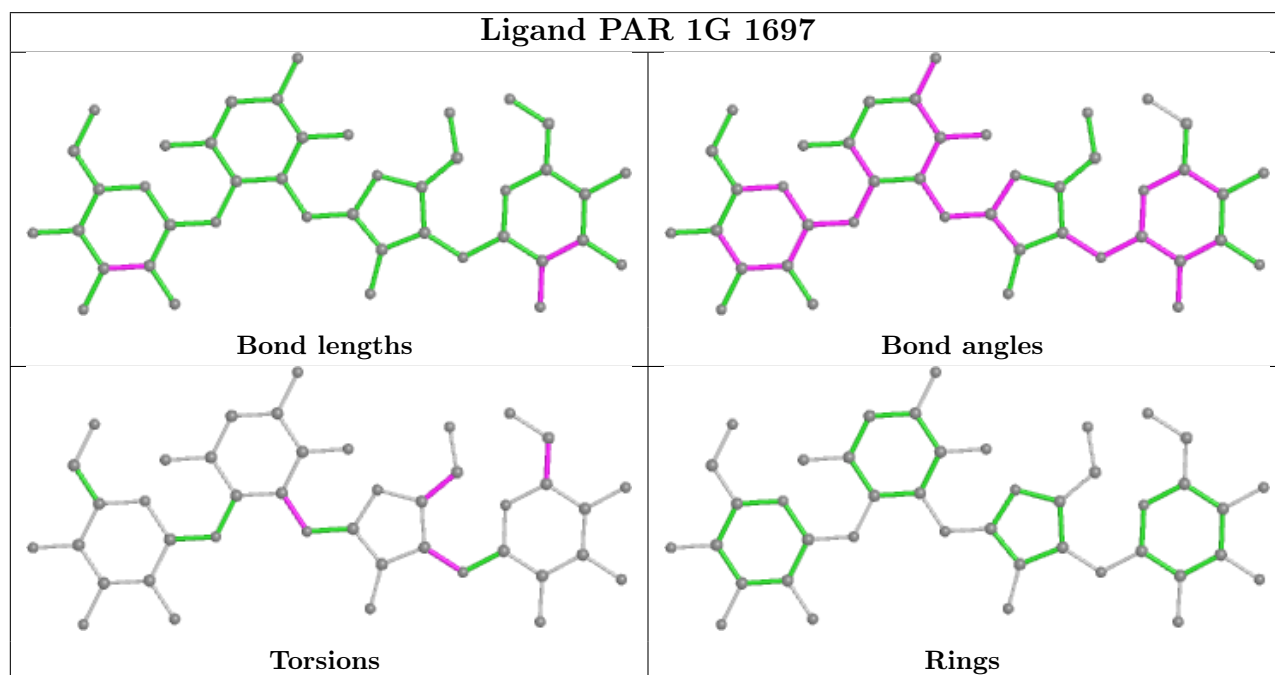
Mol	Chain	Res	Type	Atoms
59	13	1749	PAR	O43-C43-C53-O53
59	1G	1697	PAR	C44-C54-C64-N64
59	13	1749	PAR	O43-C13-O52-C52
59	1G	1697	PAR	O43-C43-C53-O53

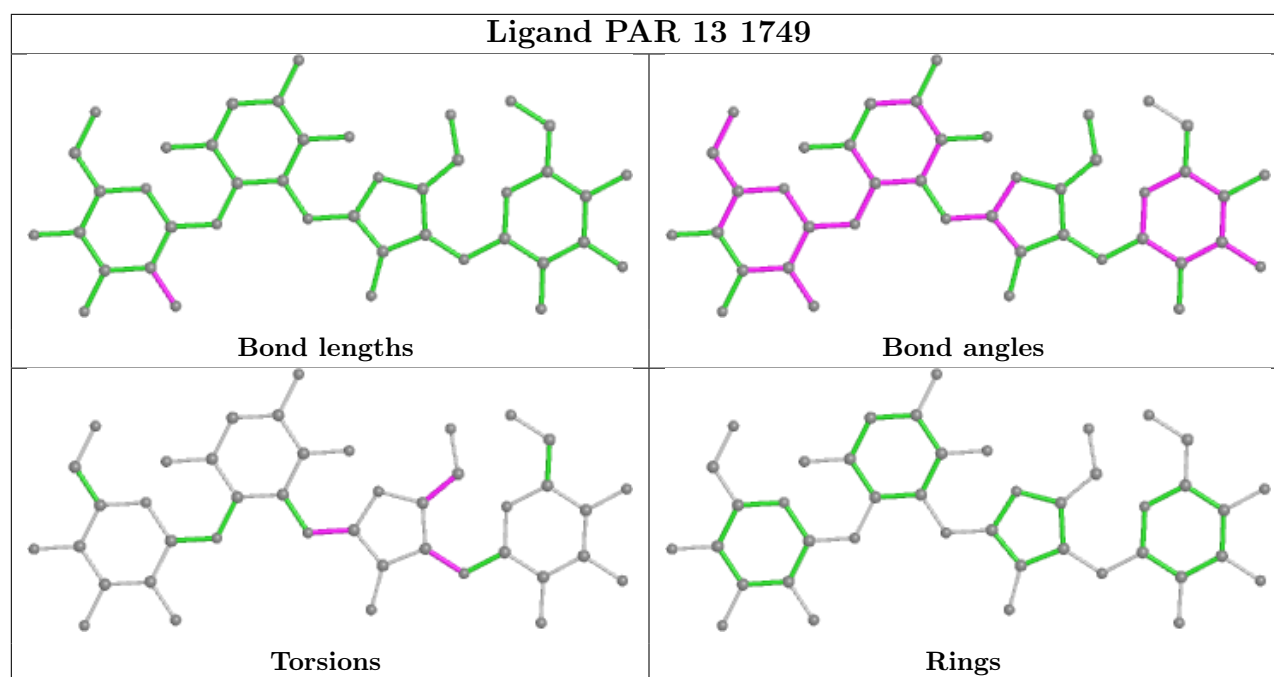
There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
59	1G	1697	PAR	2	0
59	13	1749	PAR	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	13	1
1	1G	1
25	4L	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	13	1530:G	O3'	1531:A	P	3.82
1	1G	1530:G	O3'	1531:A	P	3.28
1	4L	21:C	O3'	22:A	P	3.02

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	1498/1522 (98%)	0.27	14 (0%) 84 71	53, 93, 174, 276	0
1	1G	1498/1522 (98%)	0.40	67 (4%) 33 21	69, 116, 188, 285	0
2	12	237/256 (92%)	0.39	20 (8%) 11 6	141, 173, 195, 205	0
2	1E	237/256 (92%)	0.49	19 (8%) 12 7	105, 141, 169, 176	0
3	22	206/239 (86%)	1.37	63 (30%) 0 0	136, 162, 182, 190	0
3	2E	205/239 (85%)	0.72	19 (9%) 8 5	82, 102, 138, 147	0
4	32	208/209 (99%)	1.28	49 (23%) 0 0	93, 114, 138, 145	0
4	3E	208/209 (99%)	0.84	35 (16%) 1 1	75, 100, 123, 134	0
5	42	151/162 (93%)	1.85	61 (40%) 0 0	111, 135, 154, 184	0
5	4E	151/162 (93%)	1.15	35 (23%) 0 0	72, 93, 117, 160	0
6	52	101/101 (100%)	0.01	0 100 100	82, 100, 119, 142	0
6	5E	101/101 (100%)	0.33	2 (1%) 65 48	77, 96, 118, 141	0
7	62	152/156 (97%)	0.65	19 (12%) 3 2	112, 127, 147, 160	0
7	6E	155/156 (99%)	0.63	18 (11%) 4 2	92, 111, 146, 163	0
8	72	138/138 (100%)	2.12	60 (43%) 0 0	102, 132, 151, 155	0
8	7E	138/138 (100%)	1.25	35 (25%) 0 0	84, 101, 113, 121	0
9	82	124/128 (96%)	2.50	63 (50%) 0 0	115, 150, 165, 171	0
9	8E	127/128 (99%)	0.85	25 (19%) 1 0	80, 127, 148, 158	0
10	1A	99/105 (94%)	2.50	40 (40%) 0 0	131, 155, 176, 184	0
10	1I	99/105 (94%)	1.36	32 (32%) 0 0	73, 125, 159, 162	0
11	2A	116/129 (89%)	0.89	15 (12%) 3 2	85, 108, 130, 159	0
11	2I	116/129 (89%)	0.53	11 (9%) 8 5	69, 100, 127, 165	0
12	3A	125/132 (94%)	1.21	33 (26%) 0 0	83, 106, 134, 167	0
12	3I	125/132 (94%)	0.88	19 (15%) 2 1	60, 71, 107, 165	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9	
13	4A	117/126 (92%)	2.11	52 (44%)	0	0	118, 155, 179, 185	0
13	4I	118/126 (93%)	0.75	19 (16%)	1	1	74, 112, 132, 145	0
14	5A	58/61 (95%)	6.47	53 (91%)	0	0	134, 159, 174, 179	0
14	5I	60/61 (98%)	2.20	33 (55%)	0	0	80, 91, 106, 119	0
15	6A	88/89 (98%)	0.60	11 (12%)	3	2	87, 112, 127, 133	0
15	6I	88/89 (98%)	0.65	10 (11%)	5	3	69, 98, 116, 126	0
16	7A	84/88 (95%)	1.85	34 (40%)	0	0	87, 103, 126, 159	0
16	7I	84/88 (95%)	2.10	42 (50%)	0	0	93, 107, 141, 158	0
17	8A	100/105 (95%)	1.74	41 (41%)	0	0	93, 110, 128, 148	0
17	8I	100/105 (95%)	1.09	22 (22%)	0	0	83, 101, 113, 116	0
18	9A	72/88 (81%)	0.44	5 (6%)	16	10	92, 115, 144, 170	0
18	9I	72/88 (81%)	0.28	0	100	100	83, 100, 136, 168	0
19	AA	78/93 (83%)	1.81	29 (37%)	0	0	150, 182, 192, 196	0
19	AI	81/93 (87%)	0.56	9 (11%)	5	3	88, 113, 138, 146	0
20	BA	99/106 (93%)	1.65	42 (42%)	0	0	85, 111, 137, 149	0
20	BI	99/106 (93%)	0.96	18 (18%)	1	1	102, 117, 153, 161	0
21	1B	25/27 (92%)	5.51	22 (88%)	0	0	119, 140, 152, 167	0
21	1F	25/27 (92%)	2.57	15 (60%)	0	0	88, 97, 113, 142	0
22	1K	70/76 (92%)	0.76	11 (15%)	2	1	76, 203, 246, 250	0
23	2K	72/77 (93%)	0.16	2 (2%)	53	36	68, 91, 119, 138	0
23	2L	72/77 (93%)	-0.08	2 (2%)	53	36	80, 113, 149, 166	0
24	3K	72/76 (94%)	0.31	4 (5%)	24	15	71, 230, 258, 260	0
25	4K	13/30 (43%)	0.91	2 (15%)	2	1	64, 80, 130, 131	0
25	4L	11/30 (36%)	1.08	1 (9%)	9	5	93, 124, 136, 143	0
26	14	2909/2917 (99%)	0.35	53 (1%)	68	51	50, 84, 241, 338	0
26	1H	2912/2917 (99%)	0.38	28 (0%)	82	68	37, 70, 222, 303	0
27	16	122/122 (100%)	-0.03	0	100	100	63, 87, 110, 193	0
27	1J	122/122 (100%)	-0.16	2 (1%)	72	55	86, 120, 149, 192	0
28	11	272/276 (98%)	0.62	11 (4%)	38	25	38, 62, 78, 83	0
28	19	273/276 (98%)	1.21	53 (19%)	1	0	46, 71, 87, 97	0
29	21	205/206 (99%)	1.00	24 (11%)	4	2	50, 88, 129, 144	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	29	205/206 (99%)	1.26	45 (21%) 0 0	61, 93, 141, 174	0
30	31	202/210 (96%)	0.47	6 (2%) 50 34	43, 73, 113, 131	0
30	39	208/210 (99%)	0.64	24 (11%) 4 3	56, 103, 167, 189	0
31	41	181/182 (99%)	0.71	21 (11%) 4 2	78, 98, 131, 148	0
31	49	181/182 (99%)	1.35	54 (29%) 0 0	120, 142, 168, 178	0
32	51	174/180 (96%)	0.54	8 (4%) 32 20	77, 102, 120, 135	0
32	59	170/180 (94%)	3.51	109 (64%) 0 0	142, 193, 215, 227	0
33	61	146/148 (98%)	0.41	8 (5%) 25 15	71, 129, 146, 151	0
33	69	146/148 (98%)	0.77	22 (15%) 2 1	81, 122, 150, 157	0
34	15	138/140 (98%)	1.44	40 (28%) 0 0	77, 106, 136, 163	0
34	58	138/140 (98%)	0.73	11 (7%) 12 7	62, 89, 128, 145	0
35	25	122/122 (100%)	0.72	9 (7%) 14 8	66, 87, 103, 109	0
35	68	122/122 (100%)	0.53	3 (2%) 57 40	57, 72, 89, 100	0
36	35	150/150 (100%)	1.45	41 (27%) 0 0	58, 106, 138, 169	0
36	78	150/150 (100%)	0.71	13 (8%) 10 6	43, 77, 104, 157	0
37	45	141/141 (100%)	2.47	69 (48%) 0 0	75, 107, 136, 152	0
37	88	138/141 (97%)	0.73	7 (5%) 28 17	50, 76, 98, 128	0
38	55	117/118 (99%)	0.82	13 (11%) 5 3	59, 76, 91, 110	0
38	98	118/118 (100%)	0.99	16 (13%) 3 1	61, 81, 102, 110	0
39	65	111/112 (99%)	1.46	39 (35%) 0 0	91, 114, 131, 139	0
39	A8	111/112 (99%)	1.00	19 (17%) 1 1	73, 84, 108, 123	0
40	75	137/146 (93%)	0.84	20 (14%) 2 1	78, 95, 150, 184	0
40	B8	137/146 (93%)	0.59	9 (6%) 18 10	69, 89, 145, 175	0
41	85	117/118 (99%)	0.92	23 (19%) 1 0	66, 94, 138, 155	0
41	C8	117/118 (99%)	0.93	18 (15%) 2 1	52, 79, 111, 129	0
42	95	101/101 (100%)	0.95	22 (21%) 0 0	66, 124, 140, 157	0
42	D8	101/101 (100%)	0.72	12 (11%) 4 2	54, 103, 129, 140	0
43	A5	113/113 (100%)	1.12	14 (12%) 4 2	60, 72, 105, 150	0
43	E8	113/113 (100%)	0.88	10 (8%) 10 5	56, 72, 105, 146	0
44	B5	94/96 (97%)	1.07	11 (11%) 4 2	68, 83, 109, 120	0
44	F8	94/96 (97%)	0.49	3 (3%) 47 31	55, 69, 90, 108	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	C5	104/110 (94%)	1.55	28 (26%) 0 0	92, 115, 146, 153	0
45	G8	104/110 (94%)	0.46	3 (2%) 51 35	70, 90, 131, 142	0
46	D5	179/206 (86%)	1.27	44 (24%) 0 0	113, 151, 230, 237	0
46	H8	175/206 (84%)	0.30	4 (2%) 60 43	80, 119, 203, 216	0
47	E5	77/85 (90%)	2.07	36 (46%) 0 0	67, 88, 106, 145	0
47	I8	80/85 (94%)	1.11	13 (16%) 1 1	54, 67, 101, 108	0
48	F5	94/98 (95%)	1.74	39 (41%) 0 0	60, 79, 122, 132	0
48	J8	97/98 (98%)	1.39	21 (21%) 0 0	50, 69, 122, 149	0
49	G5	67/72 (93%)	0.69	7 (10%) 6 4	80, 100, 121, 144	0
49	K8	67/72 (93%)	0.68	2 (2%) 50 34	61, 77, 95, 125	0
50	H5	59/60 (98%)	1.48	17 (28%) 0 0	77, 100, 140, 153	0
50	L8	57/60 (95%)	0.53	1 (1%) 68 51	57, 78, 102, 109	0
51	I5	60/71 (84%)	1.03	12 (20%) 1 0	151, 187, 203, 206	0
51	M8	66/71 (92%)	0.88	13 (19%) 1 0	104, 144, 179, 189	0
52	J5	59/60 (98%)	1.06	7 (11%) 4 2	57, 81, 150, 183	0
52	N8	58/60 (96%)	1.28	8 (13%) 2 1	48, 97, 160, 163	0
53	K5	45/54 (83%)	7.57	42 (93%) 0 0	123, 152, 165, 172	0
53	O8	45/54 (83%)	4.33	37 (82%) 0 0	107, 137, 157, 161	0
54	L5	46/49 (93%)	1.25	6 (13%) 3 2	45, 58, 72, 85	0
54	P8	45/49 (91%)	0.69	2 (4%) 34 21	40, 48, 61, 75	0
55	M5	60/65 (92%)	1.93	23 (38%) 0 0	71, 79, 100, 124	0
55	Q8	60/65 (92%)	1.99	24 (40%) 0 0	56, 72, 98, 109	0
56	1L	72/76 (94%)	1.69	19 (26%) 0 0	122, 239, 257, 262	0
57	3L	71/76 (93%)	0.72	10 (14%) 2 1	82, 208, 243, 253	0
All	All	21028/21694 (96%)	0.79	2541 (12%) 4 2	37, 97, 186, 338	0

The worst 5 of 2541 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
32	59	100	GLY	23.3
32	59	4	ILE	21.1
53	K5	13	CYS	18.8
53	K5	50	ARG	17.1
53	K5	42	TRP	16.4

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
22	PSU	1K	55	20/21	0.76	0.16	112,129,148,149	0
56	5MU	1L	54	21/22	0.77	0.27	134,151,174,175	0
57	5MU	3L	54	21/22	0.78	0.18	115,149,174,177	0
57	PSU	3L	55	20/21	0.78	0.15	121,143,168,174	0
56	PSU	1L	32	20/21	0.80	0.32	124,129,142,152	0
57	4SU	3L	8	20/21	0.80	0.09	153,160,176,185	0
57	7MG	3L	46	24/25	0.83	0.10	147,158,169,181	0
24	MIA	3K	37	29/30	0.84	0.28	103,119,131,151	0
57	PSU	3L	32	20/21	0.86	0.18	119,134,142,142	0
56	PSU	1L	39	20/21	0.89	0.27	110,121,135,138	0
22	4SU	1K	8	20/21	0.89	0.10	129,144,162,164	0
23	PSU	2L	56	20/21	0.91	0.10	96,107,114,116	0
56	MIA	1L	37	29/30	0.91	0.35	102,116,122,128	0
23	5MU	2L	55	21/22	0.92	0.13	101,107,114,117	0
24	PSU	3K	39	20/21	0.93	0.14	113,120,126,127	0
24	PSU	3K	32	20/21	0.93	0.18	108,124,131,143	0
23	4SU	2L	8	20/21	0.93	0.11	94,105,113,115	0
23	PSU	2K	56	20/21	0.93	0.13	84,91,100,103	0
22	PSU	1K	32	20/21	0.94	0.23	89,96,103,114	0
22	5MU	1K	54	21/22	0.94	0.13	106,112,129,132	0
22	MIA	1K	37	29/30	0.95	0.25	70,75,87,93	0
22	PSU	1K	39	20/21	0.95	0.17	72,86,90,90	0
23	7MG	2K	47	24/25	0.95	0.14	82,93,103,108	0
23	4SU	2K	8	20/21	0.96	0.17	75,84,93,98	0
23	7MG	2L	47	24/25	0.96	0.10	107,115,120,123	0
23	5MU	2K	55	21/22	0.96	0.12	81,93,97,102	0
23	OMC	2L	33	21/22	0.97	0.21	87,93,96,103	0
23	OMC	2K	33	21/22	0.98	0.25	65,68,74,78	0

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1H	3491	1/1	0.32	0.13	105,105,105,105	0
60	ZN	G8	202	1/1	0.39	0.17	164,164,164,164	0
58	MG	1G	1607	1/1	0.46	0.26	85,85,85,85	0
58	MG	1G	1661	1/1	0.47	0.17	99,99,99,99	0
58	MG	1H	3292	1/1	0.47	0.38	84,84,84,84	0
58	MG	14	3266	1/1	0.51	0.26	84,84,84,84	0
58	MG	3K	101	1/1	0.52	0.23	80,80,80,80	0
58	MG	1H	3302	1/1	0.53	0.18	77,77,77,77	0
58	MG	14	3143	1/1	0.55	0.45	85,85,85,85	0
58	MG	14	3178	1/1	0.55	0.25	88,88,88,88	0
58	MG	14	3193	1/1	0.55	0.41	89,89,89,89	0
58	MG	1H	3334	1/1	0.55	0.46	95,95,95,95	0
58	MG	1H	3500	1/1	0.55	0.12	54,54,54,54	0
58	MG	14	3039	1/1	0.56	0.18	74,74,74,74	0
58	MG	29	304	1/1	0.56	0.28	95,95,95,95	0
58	MG	1H	3310	1/1	0.56	0.46	105,105,105,105	0
58	MG	14	3269	1/1	0.58	0.27	77,77,77,77	0
58	MG	1H	3214	1/1	0.58	0.26	67,67,67,67	0
58	MG	1H	3012	1/1	0.58	0.38	78,78,78,78	0
58	MG	1H	3392	1/1	0.59	0.09	94,94,94,94	0
58	MG	14	3035	1/1	0.59	0.21	72,72,72,72	0
60	ZN	C5	202	1/1	0.59	0.19	181,181,181,181	0
58	MG	1H	3045	1/1	0.60	0.29	72,72,72,72	0
58	MG	1H	3475	1/1	0.61	0.16	109,109,109,109	0
58	MG	1H	3027	1/1	0.62	0.24	76,76,76,76	0
58	MG	1H	3047	1/1	0.63	0.34	76,76,76,76	0
58	MG	1H	3262	1/1	0.64	0.43	96,96,96,96	0
58	MG	1H	3273	1/1	0.64	0.19	84,84,84,84	0
58	MG	1H	3025	1/1	0.65	0.30	90,90,90,90	0
58	MG	14	3272	1/1	0.66	0.21	85,85,85,85	0
58	MG	13	1666	1/1	0.66	0.32	82,82,82,82	0
58	MG	1H	3051	1/1	0.67	0.24	97,97,97,97	0
58	MG	1H	3314	1/1	0.67	0.34	84,84,84,84	0
58	MG	13	1622	1/1	0.67	0.30	66,66,66,66	0
58	MG	14	3298	1/1	0.67	0.13	93,93,93,93	0
58	MG	14	3337	1/1	0.67	0.10	73,73,73,73	0
58	MG	13	1684	1/1	0.67	0.33	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3185	1/1	0.67	0.18	81,81,81,81	0
58	MG	1H	3403	1/1	0.67	0.11	72,72,72,72	0
58	MG	1H	3205	1/1	0.68	0.18	68,68,68,68	0
58	MG	13	1710	1/1	0.68	0.43	148,148,148,148	0
58	MG	13	1664	1/1	0.68	0.16	74,74,74,74	0
58	MG	14	3049	1/1	0.69	0.22	86,86,86,86	0
58	MG	1H	3249	1/1	0.69	0.33	76,76,76,76	0
58	MG	14	3285	1/1	0.69	0.39	104,104,104,104	0
58	MG	1H	3019	1/1	0.69	0.25	85,85,85,85	0
58	MG	1H	3337	1/1	0.69	0.43	86,86,86,86	0
58	MG	1H	3248	1/1	0.69	0.36	75,75,75,75	0
58	MG	14	3265	1/1	0.69	0.21	90,90,90,90	0
58	MG	14	3048	1/1	0.69	0.23	76,76,76,76	0
58	MG	14	3186	1/1	0.70	0.22	85,85,85,85	0
58	MG	14	3029	1/1	0.70	0.15	87,87,87,87	0
58	MG	14	3077	1/1	0.70	0.14	77,77,77,77	0
58	MG	1H	3081	1/1	0.70	0.33	90,90,90,90	0
58	MG	1H	3345	1/1	0.70	0.26	81,81,81,81	0
58	MG	5I	101	1/1	0.70	0.21	81,81,81,81	0
58	MG	13	1665	1/1	0.71	0.25	88,88,88,88	0
58	MG	1H	3499	1/1	0.71	0.08	105,105,105,105	0
58	MG	1H	3454	1/1	0.72	0.23	67,67,67,67	0
58	MG	1G	1660	1/1	0.72	0.30	98,98,98,98	0
58	MG	1H	3161	1/1	0.72	0.13	89,89,89,89	0
58	MG	14	3010	1/1	0.72	0.23	78,78,78,78	0
58	MG	1H	3056	1/1	0.72	0.54	97,97,97,97	0
58	MG	13	1608	1/1	0.72	0.26	85,85,85,85	0
58	MG	14	3406	1/1	0.72	0.30	112,112,112,112	0
58	MG	1H	3092	1/1	0.72	0.31	57,57,57,57	0
58	MG	14	3255	1/1	0.72	0.32	92,92,92,92	0
58	MG	1H	3513	1/1	0.72	0.21	82,82,82,82	0
58	MG	1H	3275	1/1	0.73	0.35	82,82,82,82	0
58	MG	14	3289	1/1	0.73	0.16	78,78,78,78	0
58	MG	14	3158	1/1	0.73	0.45	95,95,95,95	0
58	MG	14	3160	1/1	0.73	0.14	82,82,82,82	0
58	MG	14	3361	1/1	0.73	0.05	76,76,76,76	0
58	MG	1H	3282	1/1	0.73	0.27	98,98,98,98	0
58	MG	1H	3218	1/1	0.73	0.28	55,55,55,55	0
58	MG	1H	3293	1/1	0.73	0.23	67,67,67,67	0
58	MG	14	3276	1/1	0.73	0.31	80,80,80,80	0
58	MG	13	1704	1/1	0.74	0.32	102,102,102,102	0
58	MG	1H	3254	1/1	0.74	0.43	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1694	1/1	0.74	0.23	78,78,78,78	0
58	MG	14	3038	1/1	0.74	0.35	86,86,86,86	0
58	MG	1H	3269	1/1	0.74	0.29	72,72,72,72	0
58	MG	1H	3247	1/1	0.74	0.54	92,92,92,92	0
58	MG	1G	1635	1/1	0.74	0.33	92,92,92,92	0
58	MG	1H	3208	1/1	0.74	0.22	70,70,70,70	0
58	MG	1H	3326	1/1	0.74	0.19	90,90,90,90	0
58	MG	7A	101	1/1	0.74	0.32	90,90,90,90	0
58	MG	1H	3267	1/1	0.75	0.17	71,71,71,71	0
58	MG	1H	3519	1/1	0.75	0.11	101,101,101,101	0
58	MG	16	203	1/1	0.75	0.22	81,81,81,81	0
58	MG	14	3045	1/1	0.75	0.27	70,70,70,70	0
58	MG	14	3381	1/1	0.75	0.09	91,91,91,91	0
58	MG	14	3271	1/1	0.75	0.19	86,86,86,86	0
58	MG	1J	204	1/1	0.75	0.30	94,94,94,94	0
58	MG	1H	3469	1/1	0.75	0.10	99,99,99,99	0
58	MG	14	3019	1/1	0.75	0.33	84,84,84,84	0
58	MG	1H	3024	1/1	0.75	0.30	77,77,77,77	0
58	MG	14	3051	1/1	0.76	0.33	102,102,102,102	0
58	MG	14	3293	1/1	0.76	0.34	94,94,94,94	0
58	MG	14	3211	1/1	0.76	0.15	81,81,81,81	0
58	MG	1H	3303	1/1	0.76	0.21	76,76,76,76	0
58	MG	1H	3258	1/1	0.76	0.23	64,64,64,64	0
58	MG	14	3144	1/1	0.76	0.34	81,81,81,81	0
58	MG	98	202	1/1	0.76	0.31	95,95,95,95	0
58	MG	1H	3180	1/1	0.76	0.32	77,77,77,77	0
58	MG	14	3015	1/1	0.76	0.21	80,80,80,80	0
58	MG	1H	3271	1/1	0.76	0.37	80,80,80,80	0
58	MG	14	3020	1/1	0.76	0.15	75,75,75,75	0
58	MG	14	3254	1/1	0.77	0.18	92,92,92,92	0
58	MG	1H	3137	1/1	0.77	0.31	71,71,71,71	0
58	MG	1H	3257	1/1	0.77	0.19	69,69,69,69	0
58	MG	1H	3281	1/1	0.77	0.39	98,98,98,98	0
58	MG	1H	3157	1/1	0.77	0.26	84,84,84,84	0
58	MG	14	3392	1/1	0.77	0.23	77,77,77,77	0
58	MG	14	3397	1/1	0.77	0.10	52,52,52,52	0
58	MG	1H	3290	1/1	0.77	0.24	84,84,84,84	0
58	MG	13	1609	1/1	0.77	0.16	81,81,81,81	0
58	MG	1H	3049	1/1	0.77	0.32	69,69,69,69	0
58	MG	1H	3198	1/1	0.77	0.22	70,70,70,70	0
58	MG	1H	3010	1/1	0.77	0.40	87,87,87,87	0
58	MG	11	304	1/1	0.78	0.26	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	3220	1/1	0.78	0.17	74,74,74,74	0
58	MG	1H	3177	1/1	0.78	0.39	86,86,86,86	0
58	MG	1H	3021	1/1	0.78	0.34	68,68,68,68	0
58	MG	1H	3196	1/1	0.78	0.38	102,102,102,102	0
58	MG	1H	3484	1/1	0.78	0.12	73,73,73,73	0
58	MG	1H	3316	1/1	0.78	0.28	81,81,81,81	0
58	MG	3L	101	1/1	0.78	0.25	99,99,99,99	0
58	MG	13	1745	1/1	0.78	0.14	107,107,107,107	0
58	MG	13	1708	1/1	0.78	0.29	90,90,90,90	0
58	MG	1H	3020	1/1	0.78	0.49	90,90,90,90	0
58	MG	1H	3052	1/1	0.78	0.33	83,83,83,83	0
58	MG	1H	3054	1/1	0.78	0.32	92,92,92,92	0
58	MG	1H	3389	1/1	0.79	0.07	74,74,74,74	0
58	MG	3L	102	1/1	0.79	0.11	151,151,151,151	0
58	MG	1H	3321	1/1	0.79	0.25	72,72,72,72	0
58	MG	1H	3162	1/1	0.79	0.43	89,89,89,89	0
58	MG	1H	3426	1/1	0.79	0.12	88,88,88,88	0
58	MG	14	3082	1/1	0.79	0.23	63,63,63,63	0
58	MG	14	3372	1/1	0.79	0.11	76,76,76,76	0
58	MG	14	3379	1/1	0.79	0.07	106,106,106,106	0
58	MG	14	3263	1/1	0.79	0.29	76,76,76,76	0
58	MG	13	1675	1/1	0.79	0.14	78,78,78,78	0
58	MG	1H	3035	1/1	0.79	0.37	89,89,89,89	0
58	MG	14	3268	1/1	0.79	0.14	87,87,87,87	0
58	MG	1G	1675	1/1	0.79	0.18	90,90,90,90	0
58	MG	1G	1688	1/1	0.79	0.10	102,102,102,102	0
58	MG	14	3166	1/1	0.79	0.35	81,81,81,81	0
58	MG	1H	3287	1/1	0.79	0.34	77,77,77,77	0
58	MG	1G	1601	1/1	0.80	0.29	90,90,90,90	0
58	MG	1H	3259	1/1	0.80	0.33	82,82,82,82	0
58	MG	1H	3283	1/1	0.80	0.24	73,73,73,73	0
58	MG	1H	3240	1/1	0.80	0.18	77,77,77,77	0
58	MG	1H	3133	1/1	0.80	0.23	53,53,53,53	0
58	MG	1H	3331	1/1	0.80	0.15	67,67,67,67	0
58	MG	1H	3184	1/1	0.80	0.33	78,78,78,78	0
58	MG	1H	3195	1/1	0.80	0.38	81,81,81,81	0
58	MG	1H	3295	1/1	0.80	0.40	87,87,87,87	0
58	MG	14	3389	1/1	0.80	0.13	75,75,75,75	0
58	MG	1H	3301	1/1	0.80	0.31	59,59,59,59	0
58	MG	14	3116	1/1	0.80	0.26	80,80,80,80	0
58	MG	13	1615	1/1	0.80	0.34	84,84,84,84	0
58	MG	13	1699	1/1	0.80	0.14	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	41	202	1/1	0.80	0.34	81,81,81,81	0
58	MG	14	3159	1/1	0.80	0.11	73,73,73,73	0
58	MG	1H	3234	1/1	0.80	0.32	67,67,67,67	0
58	MG	13	1701	1/1	0.81	0.21	99,99,99,99	0
58	MG	14	3151	1/1	0.81	0.53	91,91,91,91	0
58	MG	14	3274	1/1	0.81	0.23	88,88,88,88	0
58	MG	1H	3339	1/1	0.81	0.33	75,75,75,75	0
58	MG	1G	1606	1/1	0.81	0.17	83,83,83,83	0
58	MG	14	3023	1/1	0.81	0.26	90,90,90,90	0
58	MG	14	3292	1/1	0.81	0.26	84,84,84,84	0
58	MG	1H	3268	1/1	0.81	0.25	71,71,71,71	0
58	MG	14	3172	1/1	0.81	0.13	72,72,72,72	0
58	MG	1H	3492	1/1	0.81	0.28	82,82,82,82	0
58	MG	14	3338	1/1	0.81	0.12	74,74,74,74	0
58	MG	1G	1636	1/1	0.81	0.38	106,106,106,106	0
58	MG	14	3370	1/1	0.81	0.10	106,106,106,106	0
58	MG	1G	1647	1/1	0.81	0.16	94,94,94,94	0
58	MG	14	3376	1/1	0.81	0.06	119,119,119,119	0
58	MG	13	1736	1/1	0.81	0.08	116,116,116,116	0
58	MG	1H	3040	1/1	0.81	0.47	76,76,76,76	0
58	MG	14	3385	1/1	0.81	0.12	91,91,91,91	0
58	MG	14	3229	1/1	0.81	0.34	91,91,91,91	0
58	MG	1H	3155	1/1	0.81	0.10	58,58,58,58	0
58	MG	14	3050	1/1	0.81	0.39	94,94,94,94	0
58	MG	1H	3043	1/1	0.81	0.22	77,77,77,77	0
58	MG	1H	3431	1/1	0.81	0.10	94,94,94,94	0
58	MG	16	206	1/1	0.81	0.21	74,74,74,74	0
58	MG	13	1652	1/1	0.81	0.16	85,85,85,85	0
58	MG	13	1700	1/1	0.81	0.30	92,92,92,92	0
58	MG	1G	1680	1/1	0.82	0.38	101,101,101,101	0
58	MG	13	1712	1/1	0.82	0.14	80,80,80,80	0
58	MG	1H	3308	1/1	0.82	0.26	75,75,75,75	0
58	MG	2L	102	1/1	0.82	0.20	85,85,85,85	0
58	MG	1H	3340	1/1	0.82	0.35	82,82,82,82	0
58	MG	1H	3192	1/1	0.82	0.17	71,71,71,71	0
58	MG	1H	3023	1/1	0.82	0.53	88,88,88,88	0
58	MG	1H	3315	1/1	0.82	0.32	80,80,80,80	0
58	MG	1H	3272	1/1	0.82	0.24	68,68,68,68	0
58	MG	13	1651	1/1	0.82	0.23	79,79,79,79	0
58	MG	14	3220	1/1	0.82	0.30	66,66,66,66	0
58	MG	14	3407	1/1	0.82	0.09	117,117,117,117	0
58	MG	1J	202	1/1	0.82	0.34	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	1H	3174	1/1	0.82	0.25	70,70,70,70	0
58	MG	13	1606	1/1	0.82	0.43	88,88,88,88	0
58	MG	14	3147	1/1	0.82	0.16	81,81,81,81	0
58	MG	1H	3156	1/1	0.82	0.17	78,78,78,78	0
58	MG	14	3148	1/1	0.83	0.19	65,65,65,65	0
58	MG	1H	3077	1/1	0.83	0.18	54,54,54,54	0
58	MG	1H	3457	1/1	0.83	0.15	82,82,82,82	0
58	MG	1H	3246	1/1	0.83	0.27	75,75,75,75	0
58	MG	1H	3474	1/1	0.83	0.10	100,100,100,100	0
58	MG	14	3034	1/1	0.83	0.27	82,82,82,82	0
58	MG	14	3169	1/1	0.83	0.22	92,92,92,92	0
58	MG	14	3300	1/1	0.83	0.20	63,63,63,63	0
58	MG	13	1705	1/1	0.83	0.44	91,91,91,91	0
58	MG	1H	3030	1/1	0.83	0.21	67,67,67,67	0
58	MG	1H	3159	1/1	0.83	0.28	73,73,73,73	0
58	MG	14	3367	1/1	0.83	0.07	103,103,103,103	0
58	MG	1H	3346	1/1	0.83	0.16	80,80,80,80	0
58	MG	14	3047	1/1	0.83	0.15	92,92,92,92	0
58	MG	1H	3348	1/1	0.83	0.33	73,73,73,73	0
58	MG	1H	3187	1/1	0.83	0.17	78,78,78,78	0
58	MG	1H	3188	1/1	0.83	0.31	73,73,73,73	0
58	MG	14	3234	1/1	0.83	0.16	80,80,80,80	0
58	MG	14	3244	1/1	0.83	0.13	68,68,68,68	0
58	MG	13	1723	1/1	0.83	0.13	70,70,70,70	0
58	MG	1H	3421	1/1	0.83	0.15	46,46,46,46	0
58	MG	16	204	1/1	0.83	0.19	67,67,67,67	0
58	MG	1H	3422	1/1	0.83	0.15	66,66,66,66	0
58	MG	14	3121	1/1	0.83	0.30	75,75,75,75	0
58	MG	14	3126	1/1	0.83	0.21	79,79,79,79	0
58	MG	11	301	1/1	0.83	0.26	50,50,50,50	0
58	MG	1H	3327	1/1	0.83	0.35	77,77,77,77	0
58	MG	1H	3075	1/1	0.83	0.19	76,76,76,76	0
58	MG	14	3123	1/1	0.84	0.24	78,78,78,78	0
58	MG	14	3299	1/1	0.84	0.17	76,76,76,76	0
58	MG	14	3227	1/1	0.84	0.11	84,84,84,84	0
58	MG	1G	1646	1/1	0.84	0.37	95,95,95,95	0
58	MG	14	3140	1/1	0.84	0.23	69,69,69,69	0
58	MG	14	3242	1/1	0.84	0.20	78,78,78,78	0
58	MG	14	3025	1/1	0.84	0.21	81,81,81,81	0
58	MG	1H	3333	1/1	0.84	0.28	71,71,71,71	0
58	MG	1G	1649	1/1	0.84	0.23	101,101,101,101	0
58	MG	13	1636	1/1	0.84	0.27	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1692	1/1	0.84	0.18	79,79,79,79	0
58	MG	16	205	1/1	0.84	0.20	81,81,81,81	0
58	MG	13	1680	1/1	0.84	0.18	97,97,97,97	0
58	MG	1H	3277	1/1	0.84	0.27	70,70,70,70	0
58	MG	1H	3224	1/1	0.84	0.49	92,92,92,92	0
58	MG	1H	3136	1/1	0.84	0.18	73,73,73,73	0
58	MG	13	1683	1/1	0.84	0.12	76,76,76,76	0
58	MG	1H	3266	1/1	0.84	0.24	91,91,91,91	0
58	MG	1H	3242	1/1	0.84	0.33	77,77,77,77	0
58	MG	14	3286	1/1	0.84	0.14	71,71,71,71	0
58	MG	1H	3153	1/1	0.84	0.29	72,72,72,72	0
58	MG	1H	3007	1/1	0.84	0.36	64,64,64,64	0
58	MG	1H	3033	1/1	0.84	0.37	78,78,78,78	0
58	MG	13	1706	1/1	0.85	0.38	81,81,81,81	0
58	MG	14	3076	1/1	0.85	0.13	73,73,73,73	0
58	MG	88	202	1/1	0.85	0.22	64,64,64,64	0
58	MG	14	3296	1/1	0.85	0.16	74,74,74,74	0
58	MG	1H	3241	1/1	0.85	0.29	71,71,71,71	0
58	MG	1H	3098	1/1	0.85	0.41	71,71,71,71	0
58	MG	14	3118	1/1	0.85	0.15	72,72,72,72	0
58	MG	1H	3183	1/1	0.85	0.18	60,60,60,60	0
58	MG	1H	3138	1/1	0.85	0.14	65,65,65,65	0
58	MG	1G	1625	1/1	0.85	0.12	129,129,129,129	0
58	MG	14	3236	1/1	0.85	0.21	86,86,86,86	0
58	MG	1G	1630	1/1	0.85	0.14	78,78,78,78	0
58	MG	1H	3322	1/1	0.85	0.22	88,88,88,88	0
58	MG	14	3248	1/1	0.85	0.20	79,79,79,79	0
58	MG	1H	3185	1/1	0.85	0.27	72,72,72,72	0
58	MG	1H	3119	1/1	0.85	0.33	91,91,91,91	0
58	MG	1H	3514	1/1	0.85	0.09	77,77,77,77	0
58	MG	14	3386	1/1	0.85	0.12	94,94,94,94	0
58	MG	1H	3330	1/1	0.85	0.23	75,75,75,75	0
58	MG	1H	3297	1/1	0.85	0.31	78,78,78,78	0
58	MG	1H	3154	1/1	0.85	0.19	59,59,59,59	0
58	MG	14	3404	1/1	0.85	0.12	66,66,66,66	0
58	MG	1H	3440	1/1	0.85	0.09	52,52,52,52	0
58	MG	14	3164	1/1	0.85	0.34	78,78,78,78	0
58	MG	1H	3026	1/1	0.85	0.32	80,80,80,80	0
58	MG	14	3167	1/1	0.85	0.19	86,86,86,86	0
58	MG	1J	205	1/1	0.85	0.20	78,78,78,78	0
58	MG	14	3168	1/1	0.85	0.32	92,92,92,92	0
58	MG	1H	3228	1/1	0.85	0.22	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	3175	1/1	0.85	0.19	65,65,65,65	0
58	MG	1H	3250	1/1	0.86	0.46	86,86,86,86	0
58	MG	1G	1685	1/1	0.86	0.11	88,88,88,88	0
58	MG	14	3231	1/1	0.86	0.21	70,70,70,70	0
58	MG	14	3145	1/1	0.86	0.33	87,87,87,87	0
58	MG	1H	3335	1/1	0.86	0.22	59,59,59,59	0
58	MG	1H	3509	1/1	0.86	0.12	68,68,68,68	0
58	MG	1H	3252	1/1	0.86	0.15	60,60,60,60	0
58	MG	1H	3031	1/1	0.86	0.41	90,90,90,90	0
58	MG	14	3369	1/1	0.86	0.07	102,102,102,102	0
58	MG	1H	3217	1/1	0.86	0.25	54,54,54,54	0
58	MG	1G	1633	1/1	0.86	0.31	82,82,82,82	0
58	MG	14	3258	1/1	0.86	0.12	82,82,82,82	0
58	MG	14	3060	1/1	0.86	0.17	58,58,58,58	0
58	MG	14	3075	1/1	0.86	0.13	89,89,89,89	0
58	MG	14	3012	1/1	0.86	0.13	69,69,69,69	0
58	MG	1H	3341	1/1	0.86	0.16	96,96,96,96	0
58	MG	14	3387	1/1	0.86	0.17	93,93,93,93	0
58	MG	1H	3343	1/1	0.86	0.54	99,99,99,99	0
58	MG	14	3090	1/1	0.86	0.15	68,68,68,68	0
58	MG	1H	3042	1/1	0.86	0.17	64,64,64,64	0
58	MG	14	3273	1/1	0.86	0.12	62,62,62,62	0
58	MG	14	3180	1/1	0.86	0.15	74,74,74,74	0
58	MG	1H	3243	1/1	0.86	0.27	81,81,81,81	0
58	MG	14	3282	1/1	0.86	0.45	88,88,88,88	0
58	MG	1H	3165	1/1	0.86	0.24	60,60,60,60	0
58	MG	14	3190	1/1	0.86	0.14	53,53,53,53	0
58	MG	13	1647	1/1	0.86	0.13	87,87,87,87	0
58	MG	1H	3113	1/1	0.86	0.21	68,68,68,68	0
58	MG	3E	301	1/1	0.86	0.14	109,109,109,109	0
58	MG	14	3281	1/1	0.87	0.30	84,84,84,84	0
58	MG	5I	102	1/1	0.87	0.26	90,90,90,90	0
58	MG	1H	3354	1/1	0.87	0.13	49,49,49,49	0
58	MG	1H	3376	1/1	0.87	0.18	67,67,67,67	0
58	MG	1G	1671	1/1	0.87	0.18	82,82,82,82	0
58	MG	1H	3221	1/1	0.87	0.26	63,63,63,63	0
58	MG	1H	3520	1/1	0.87	0.51	97,97,97,97	0
58	MG	14	3294	1/1	0.87	0.15	94,94,94,94	0
58	MG	14	3201	1/1	0.87	0.19	69,69,69,69	0
58	MG	1H	3284	1/1	0.87	0.25	74,74,74,74	0
58	MG	1H	3285	1/1	0.87	0.12	80,80,80,80	0
58	MG	14	3223	1/1	0.87	0.10	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2K	103	1/1	0.87	0.31	88,88,88,88	0
58	MG	1H	3329	1/1	0.87	0.33	85,85,85,85	0
58	MG	16	209	1/1	0.87	0.26	65,65,65,65	0
58	MG	13	1677	1/1	0.87	0.29	74,74,74,74	0
58	MG	14	3001	1/1	0.87	0.28	89,89,89,89	0
58	MG	14	3239	1/1	0.87	0.37	98,98,98,98	0
58	MG	1H	3430	1/1	0.87	0.09	73,73,73,73	0
58	MG	13	1644	1/1	0.87	0.36	78,78,78,78	0
58	MG	78	201	1/1	0.87	0.25	80,80,80,80	0
58	MG	14	3250	1/1	0.87	0.22	72,72,72,72	0
58	MG	14	3253	1/1	0.87	0.18	151,151,151,151	0
58	MG	13	1630	1/1	0.87	0.16	67,67,67,67	0
58	MG	1H	3044	1/1	0.87	0.21	61,61,61,61	0
58	MG	1H	3199	1/1	0.87	0.19	44,44,44,44	0
58	MG	1H	3200	1/1	0.87	0.17	35,35,35,35	0
58	MG	1H	3338	1/1	0.87	0.34	80,80,80,80	0
58	MG	14	3400	1/1	0.87	0.09	65,65,65,65	0
58	MG	1H	3202	1/1	0.87	0.23	58,58,58,58	0
58	MG	1H	3478	1/1	0.87	0.13	91,91,91,91	0
58	MG	1G	1631	1/1	0.87	0.25	82,82,82,82	0
58	MG	1H	3078	1/1	0.87	0.21	67,67,67,67	0
58	MG	1H	3080	1/1	0.87	0.14	56,56,56,56	0
58	MG	13	1707	1/1	0.87	0.45	80,80,80,80	0
58	MG	13	1648	1/1	0.87	0.36	78,78,78,78	0
58	MG	13	1687	1/1	0.87	0.21	98,98,98,98	0
58	MG	14	3277	1/1	0.87	0.13	104,104,104,104	0
58	MG	1G	1678	1/1	0.88	0.29	108,108,108,108	0
58	MG	1G	1679	1/1	0.88	0.39	120,120,120,120	0
58	MG	13	1738	1/1	0.88	0.07	84,84,84,84	0
58	MG	14	3122	1/1	0.88	0.36	79,79,79,79	0
58	MG	1H	3311	1/1	0.88	0.31	81,81,81,81	0
58	MG	1H	3434	1/1	0.88	0.09	63,63,63,63	0
58	MG	2A	201	1/1	0.88	0.13	91,91,91,91	0
58	MG	2A	202	1/1	0.88	0.27	98,98,98,98	0
58	MG	13	1739	1/1	0.88	0.07	85,85,85,85	0
58	MG	13	1627	1/1	0.88	0.31	90,90,90,90	0
58	MG	2L	103	1/1	0.88	0.21	93,93,93,93	0
58	MG	1H	3342	1/1	0.88	0.30	89,89,89,89	0
58	MG	14	3275	1/1	0.88	0.18	86,86,86,86	0
58	MG	1H	3460	1/1	0.88	0.16	81,81,81,81	0
58	MG	13	1646	1/1	0.88	0.26	61,61,61,61	0
58	MG	1H	3204	1/1	0.88	0.14	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3034	1/1	0.88	0.38	73,73,73,73	0
58	MG	14	3163	1/1	0.88	0.17	71,71,71,71	0
58	MG	13	1643	1/1	0.88	0.35	78,78,78,78	0
58	MG	14	3165	1/1	0.88	0.21	83,83,83,83	0
58	MG	14	3016	1/1	0.88	0.32	91,91,91,91	0
58	MG	1H	3186	1/1	0.88	0.17	74,74,74,74	0
58	MG	1H	3485	1/1	0.88	0.09	87,87,87,87	0
58	MG	1H	3373	1/1	0.88	0.08	75,75,75,75	0
58	MG	1G	1626	1/1	0.88	0.35	99,99,99,99	0
58	MG	14	3176	1/1	0.88	0.19	58,58,58,58	0
58	MG	13	1721	1/1	0.88	0.09	83,83,83,83	0
58	MG	1H	3497	1/1	0.88	0.14	42,42,42,42	0
58	MG	14	3181	1/1	0.88	0.28	79,79,79,79	0
58	MG	1H	3383	1/1	0.88	0.12	61,61,61,61	0
58	MG	13	1669	1/1	0.88	0.11	68,68,68,68	0
58	MG	1H	3503	1/1	0.88	0.28	73,73,73,73	0
58	MG	14	3042	1/1	0.88	0.24	87,87,87,87	0
58	MG	14	3044	1/1	0.88	0.16	57,57,57,57	0
58	MG	13	1725	1/1	0.88	0.08	77,77,77,77	0
58	MG	14	3215	1/1	0.88	0.09	73,73,73,73	0
58	MG	14	3216	1/1	0.88	0.08	63,63,63,63	0
58	MG	14	3046	1/1	0.88	0.24	68,68,68,68	0
58	MG	1H	3398	1/1	0.88	0.10	57,57,57,57	0
58	MG	1H	3169	1/1	0.88	0.37	85,85,85,85	0
58	MG	1H	3515	1/1	0.88	0.05	83,83,83,83	0
58	MG	14	3390	1/1	0.88	0.12	109,109,109,109	0
58	MG	1H	3253	1/1	0.88	0.23	76,76,76,76	0
58	MG	1G	1665	1/1	0.88	0.52	127,127,127,127	0
58	MG	1G	1668	1/1	0.88	0.12	84,84,84,84	0
58	MG	1G	1670	1/1	0.88	0.12	88,88,88,88	0
58	MG	13	1671	1/1	0.88	0.22	95,95,95,95	0
58	MG	14	3243	1/1	0.88	0.35	70,70,70,70	0
58	MG	1H	3309	1/1	0.88	0.17	70,70,70,70	0
58	MG	14	3245	1/1	0.88	0.29	77,77,77,77	0
58	MG	1G	1676	1/1	0.88	0.35	95,95,95,95	0
58	MG	29	303	1/1	0.88	0.19	73,73,73,73	0
58	MG	14	3087	1/1	0.88	0.16	48,48,48,48	0
58	MG	14	3251	1/1	0.88	0.30	84,84,84,84	0
58	MG	1G	1677	1/1	0.88	0.14	97,97,97,97	0
58	MG	14	3196	1/1	0.89	0.12	65,65,65,65	0
58	MG	14	3283	1/1	0.89	0.23	82,82,82,82	0
58	MG	13	1673	1/1	0.89	0.22	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	13	1688	1/1	0.89	0.35	97,97,97,97	0
58	MG	1H	3147	1/1	0.89	0.27	63,63,63,63	0
58	MG	14	3290	1/1	0.89	0.20	79,79,79,79	0
58	MG	1G	1655	1/1	0.89	0.24	86,86,86,86	0
58	MG	1G	1658	1/1	0.89	0.11	92,92,92,92	0
58	MG	13	1654	1/1	0.89	0.15	76,76,76,76	0
58	MG	1H	3453	1/1	0.89	0.08	105,105,105,105	0
58	MG	14	3026	1/1	0.89	0.15	71,71,71,71	0
58	MG	1G	1662	1/1	0.89	0.34	83,83,83,83	0
58	MG	14	3146	1/1	0.89	0.10	64,64,64,64	0
58	MG	14	3334	1/1	0.89	0.09	49,49,49,49	0
58	MG	14	3032	1/1	0.89	0.23	82,82,82,82	0
58	MG	13	1633	1/1	0.89	0.15	49,49,49,49	0
58	MG	14	3352	1/1	0.89	0.18	99,99,99,99	0
58	MG	1H	3209	1/1	0.89	0.10	57,57,57,57	0
58	MG	1H	3211	1/1	0.89	0.39	78,78,78,78	0
58	MG	1H	3279	1/1	0.89	0.25	67,67,67,67	0
58	MG	13	1670	1/1	0.89	0.33	91,91,91,91	0
58	MG	14	3162	1/1	0.89	0.24	81,81,81,81	0
58	MG	13	1709	1/1	0.89	0.32	84,84,84,84	0
58	MG	1H	3015	1/1	0.89	0.16	73,73,73,73	0
58	MG	1H	3480	1/1	0.89	0.11	88,88,88,88	0
58	MG	98	201	1/1	0.89	0.21	56,56,56,56	0
58	MG	1H	3318	1/1	0.89	0.27	85,85,85,85	0
58	MG	1H	3320	1/1	0.89	0.27	71,71,71,71	0
58	MG	13	1634	1/1	0.89	0.17	47,47,47,47	0
58	MG	13	1672	1/1	0.89	0.10	72,72,72,72	0
58	MG	14	3173	1/1	0.89	0.17	79,79,79,79	0
58	MG	1G	1610	1/1	0.89	0.10	88,88,88,88	0
58	MG	1H	3130	1/1	0.89	0.12	59,59,59,59	0
58	MG	1H	3289	1/1	0.89	0.47	89,89,89,89	0
58	MG	13	1713	1/1	0.89	0.40	88,88,88,88	0
58	MG	14	3183	1/1	0.89	0.14	66,66,66,66	0
58	MG	1H	3135	1/1	0.89	0.28	61,61,61,61	0
58	MG	1H	3235	1/1	0.89	0.34	83,83,83,83	0
58	MG	1H	3294	1/1	0.89	0.68	61,61,61,61	0
58	MG	1H	3038	1/1	0.89	0.45	73,73,73,73	0
58	MG	14	3278	1/1	0.89	0.14	89,89,89,89	0
58	MG	14	3279	1/1	0.89	0.15	74,74,74,74	0
58	MG	14	3195	1/1	0.89	0.24	70,70,70,70	0
58	MG	1G	1674	1/1	0.90	0.23	98,98,98,98	0
58	MG	1H	3270	1/1	0.90	0.38	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3471	1/1	0.90	0.08	63,63,63,63	0
58	MG	1H	3018	1/1	0.90	0.37	73,73,73,73	0
58	MG	14	3184	1/1	0.90	0.26	91,91,91,91	0
58	MG	13	1655	1/1	0.90	0.08	77,77,77,77	0
58	MG	1H	3100	1/1	0.90	0.25	64,64,64,64	0
58	MG	1H	3109	1/1	0.90	0.10	46,46,46,46	0
58	MG	1G	1681	1/1	0.90	0.22	75,75,75,75	0
58	MG	1G	1682	1/1	0.90	0.19	103,103,103,103	0
58	MG	P8	101	1/1	0.90	0.29	73,73,73,73	0
58	MG	1G	1687	1/1	0.90	0.09	104,104,104,104	0
58	MG	1H	3110	1/1	0.90	0.13	45,45,45,45	0
58	MG	1G	1692	1/1	0.90	0.09	83,83,83,83	0
58	MG	14	3115	1/1	0.90	0.27	66,66,66,66	0
58	MG	14	3297	1/1	0.90	0.09	75,75,75,75	0
58	MG	1G	1602	1/1	0.90	0.20	93,93,93,93	0
58	MG	1G	1605	1/1	0.90	0.36	83,83,83,83	0
58	MG	1H	3332	1/1	0.90	0.26	74,74,74,74	0
58	MG	1H	3488	1/1	0.90	0.10	69,69,69,69	0
58	MG	1H	3046	1/1	0.90	0.25	84,84,84,84	0
58	MG	14	3232	1/1	0.90	0.58	52,52,52,52	0
58	MG	1H	3306	1/1	0.90	0.45	78,78,78,78	0
58	MG	14	3358	1/1	0.90	0.08	82,82,82,82	0
58	MG	1H	3493	1/1	0.90	0.22	79,79,79,79	0
58	MG	14	3237	1/1	0.90	0.15	79,79,79,79	0
58	MG	1H	3280	1/1	0.90	0.45	82,82,82,82	0
58	MG	14	3240	1/1	0.90	0.11	83,83,83,83	0
58	MG	1H	3230	1/1	0.90	0.52	91,91,91,91	0
58	MG	1H	3423	1/1	0.90	0.11	59,59,59,59	0
58	MG	1H	3009	1/1	0.90	0.49	73,73,73,73	0
58	MG	1H	3428	1/1	0.90	0.15	74,74,74,74	0
58	MG	1G	1637	1/1	0.90	0.23	79,79,79,79	0
58	MG	1H	3127	1/1	0.90	0.12	50,50,50,50	0
58	MG	1H	3207	1/1	0.90	0.17	56,56,56,56	0
58	MG	14	3024	1/1	0.90	0.27	82,82,82,82	0
58	MG	1G	1648	1/1	0.90	0.20	79,79,79,79	0
58	MG	14	3391	1/1	0.90	0.09	97,97,97,97	0
58	MG	13	1682	1/1	0.90	0.22	73,73,73,73	0
58	MG	13	1662	1/1	0.90	0.29	115,115,115,115	0
58	MG	14	3398	1/1	0.90	0.09	70,70,70,70	0
58	MG	14	3261	1/1	0.90	0.13	84,84,84,84	0
58	MG	1H	3448	1/1	0.90	0.09	51,51,51,51	0
58	MG	14	3033	1/1	0.90	0.21	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1653	1/1	0.90	0.28	87,87,87,87	0
58	MG	1H	3344	1/1	0.90	0.28	70,70,70,70	0
58	MG	1H	3245	1/1	0.90	0.32	81,81,81,81	0
58	MG	1H	3459	1/1	0.90	0.21	73,73,73,73	0
58	MG	1H	3091	1/1	0.90	0.23	77,77,77,77	0
58	MG	16	210	1/1	0.90	0.15	73,73,73,73	0
58	MG	25	201	1/1	0.90	0.48	102,102,102,102	0
58	MG	14	3175	1/1	0.90	0.20	87,87,87,87	0
58	MG	1H	3466	1/1	0.90	0.06	67,67,67,67	0
58	MG	11	303	1/1	0.91	0.12	41,41,41,41	0
58	MG	1H	3325	1/1	0.91	0.37	92,92,92,92	0
58	MG	1H	3378	1/1	0.91	0.09	79,79,79,79	0
58	MG	14	3182	1/1	0.91	0.24	86,86,86,86	0
58	MG	14	3280	1/1	0.91	0.40	87,87,87,87	0
58	MG	1G	1672	1/1	0.91	0.26	88,88,88,88	0
58	MG	1H	3120	1/1	0.91	0.36	70,70,70,70	0
58	MG	1H	3265	1/1	0.91	0.22	79,79,79,79	0
58	MG	13	1661	1/1	0.91	0.22	97,97,97,97	0
58	MG	2K	102	1/1	0.91	0.15	80,80,80,80	0
58	MG	14	3191	1/1	0.91	0.12	70,70,70,70	0
58	MG	L8	101	1/1	0.91	0.42	79,79,79,79	0
58	MG	14	3070	1/1	0.91	0.11	79,79,79,79	0
58	MG	14	3074	1/1	0.91	0.16	73,73,73,73	0
58	MG	1H	3236	1/1	0.91	0.26	79,79,79,79	0
58	MG	14	3206	1/1	0.91	0.14	50,50,50,50	0
58	MG	1H	3016	1/1	0.91	0.41	97,97,97,97	0
58	MG	1H	3017	1/1	0.91	0.41	66,66,66,66	0
58	MG	1G	1604	1/1	0.91	0.17	98,98,98,98	0
58	MG	13	1702	1/1	0.91	0.38	81,81,81,81	0
58	MG	14	3326	1/1	0.91	0.16	61,61,61,61	0
58	MG	1H	3494	1/1	0.91	0.11	82,82,82,82	0
58	MG	1H	3206	1/1	0.91	0.13	54,54,54,54	0
58	MG	1H	3305	1/1	0.91	0.21	75,75,75,75	0
58	MG	1G	1613	1/1	0.91	0.08	87,87,87,87	0
58	MG	1G	1614	1/1	0.91	0.24	91,91,91,91	0
58	MG	1G	1618	1/1	0.91	0.17	78,78,78,78	0
58	MG	14	3365	1/1	0.91	0.19	83,83,83,83	0
58	MG	14	3366	1/1	0.91	0.10	94,94,94,94	0
58	MG	1G	1624	1/1	0.91	0.14	85,85,85,85	0
58	MG	1H	3178	1/1	0.91	0.10	63,63,63,63	0
58	MG	13	1703	1/1	0.91	0.15	89,89,89,89	0
58	MG	1G	1628	1/1	0.91	0.37	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	3508	1/1	0.91	0.12	55,55,55,55	0
58	MG	1H	3048	1/1	0.91	0.42	81,81,81,81	0
58	MG	14	3011	1/1	0.91	0.24	70,70,70,70	0
58	MG	1H	3510	1/1	0.91	0.25	51,51,51,51	0
58	MG	14	3246	1/1	0.91	0.16	85,85,85,85	0
58	MG	13	1733	1/1	0.91	0.10	104,104,104,104	0
58	MG	3E	302	1/1	0.91	0.25	108,108,108,108	0
58	MG	14	3154	1/1	0.91	0.12	68,68,68,68	0
58	MG	1H	3105	1/1	0.91	0.22	71,71,71,71	0
58	MG	13	1696	1/1	0.91	0.10	70,70,70,70	0
58	MG	1H	3039	1/1	0.91	0.39	75,75,75,75	0
58	MG	16	202	1/1	0.91	0.29	81,81,81,81	0
58	MG	14	3259	1/1	0.91	0.17	102,102,102,102	0
58	MG	14	3402	1/1	0.91	0.11	76,76,76,76	0
58	MG	14	3403	1/1	0.91	0.08	66,66,66,66	0
58	MG	1H	3011	1/1	0.91	0.13	72,72,72,72	0
58	MG	1G	1650	1/1	0.91	0.33	81,81,81,81	0
58	MG	1H	3223	1/1	0.91	0.26	60,60,60,60	0
58	MG	14	3031	1/1	0.91	0.20	78,78,78,78	0
58	MG	1G	1657	1/1	0.91	0.22	107,107,107,107	0
58	MG	1H	3464	1/1	0.91	0.11	84,84,84,84	0
58	MG	1H	3118	1/1	0.91	0.17	53,53,53,53	0
58	MG	1H	3371	1/1	0.91	0.09	45,45,45,45	0
58	MG	1H	3059	1/1	0.91	0.26	56,56,56,56	0
58	MG	1H	3472	1/1	0.91	0.07	72,72,72,72	0
60	ZN	5A	101	1/1	0.91	0.12	143,143,143,143	0
58	MG	1G	1667	1/1	0.91	0.21	92,92,92,92	0
58	MG	1H	3288	1/1	0.92	0.18	58,58,58,58	0
58	MG	13	1642	1/1	0.92	0.24	64,64,64,64	0
58	MG	13	1657	1/1	0.92	0.28	89,89,89,89	0
58	MG	14	3171	1/1	0.92	0.26	80,80,80,80	0
58	MG	1G	1643	1/1	0.92	0.28	74,74,74,74	0
58	MG	1H	3146	1/1	0.92	0.32	67,67,67,67	0
58	MG	1H	3261	1/1	0.92	0.21	64,64,64,64	0
58	MG	1H	3101	1/1	0.92	0.28	72,72,72,72	0
58	MG	1H	3436	1/1	0.92	0.09	67,67,67,67	0
58	MG	1H	3264	1/1	0.92	0.18	67,67,67,67	0
58	MG	1G	1651	1/1	0.92	0.17	77,77,77,77	0
58	MG	1H	3447	1/1	0.92	0.14	55,55,55,55	0
58	MG	1G	1656	1/1	0.92	0.14	140,140,140,140	0
58	MG	1H	3150	1/1	0.92	0.35	69,69,69,69	0
58	MG	1H	3449	1/1	0.92	0.08	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1G	1659	1/1	0.92	0.20	95,95,95,95	0
58	MG	1H	3298	1/1	0.92	0.22	68,68,68,68	0
58	MG	1H	3299	1/1	0.92	0.56	98,98,98,98	0
58	MG	16	208	1/1	0.92	0.29	77,77,77,77	0
58	MG	13	1698	1/1	0.92	0.15	80,80,80,80	0
58	MG	1H	3233	1/1	0.92	0.25	70,70,70,70	0
58	MG	1H	3041	1/1	0.92	0.19	88,88,88,88	0
58	MG	14	3321	1/1	0.92	0.11	55,55,55,55	0
58	MG	14	3204	1/1	0.92	0.23	63,63,63,63	0
58	MG	1H	3463	1/1	0.92	0.15	66,66,66,66	0
58	MG	13	1691	1/1	0.92	0.26	75,75,75,75	0
58	MG	41	201	1/1	0.92	0.15	67,67,67,67	0
58	MG	1H	3112	1/1	0.92	0.22	71,71,71,71	0
58	MG	14	3353	1/1	0.92	0.12	82,82,82,82	0
58	MG	13	1737	1/1	0.92	0.06	93,93,93,93	0
58	MG	14	3221	1/1	0.92	0.27	72,72,72,72	0
58	MG	88	201	1/1	0.92	0.16	84,84,84,84	0
58	MG	1H	3470	1/1	0.92	0.06	73,73,73,73	0
58	MG	14	3084	1/1	0.92	0.10	81,81,81,81	0
58	MG	13	1686	1/1	0.92	0.19	80,80,80,80	0
58	MG	13	1693	1/1	0.92	0.42	94,94,94,94	0
58	MG	14	3371	1/1	0.92	0.08	79,79,79,79	0
58	MG	14	3106	1/1	0.92	0.19	62,62,62,62	0
58	MG	14	3235	1/1	0.92	0.19	80,80,80,80	0
58	MG	I8	101	1/1	0.92	0.08	56,56,56,56	0
58	MG	1H	3473	1/1	0.92	0.07	85,85,85,85	0
58	MG	14	3383	1/1	0.92	0.09	66,66,66,66	0
58	MG	1H	3352	1/1	0.92	0.13	45,45,45,45	0
58	MG	1H	3274	1/1	0.92	0.28	83,83,83,83	0
58	MG	1H	3313	1/1	0.92	0.30	78,78,78,78	0
58	MG	1H	3079	1/1	0.92	0.15	53,53,53,53	0
58	MG	1H	3481	1/1	0.92	0.09	132,132,132,132	0
58	MG	14	3129	1/1	0.92	0.25	69,69,69,69	0
58	MG	1H	3164	1/1	0.92	0.30	58,58,58,58	0
58	MG	14	3394	1/1	0.92	0.12	53,53,53,53	0
58	MG	14	3395	1/1	0.92	0.24	75,75,75,75	0
58	MG	1H	3121	1/1	0.92	0.23	35,35,35,35	0
58	MG	1H	3487	1/1	0.92	0.12	100,100,100,100	0
58	MG	1H	3122	1/1	0.92	0.20	68,68,68,68	0
58	MG	2K	105	1/1	0.92	0.06	81,81,81,81	0
58	MG	1G	1616	1/1	0.92	0.29	86,86,86,86	0
58	MG	13	1742	1/1	0.92	0.21	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1G	1620	1/1	0.92	0.18	77,77,77,77	0
58	MG	14	3004	1/1	0.92	0.23	78,78,78,78	0
58	MG	14	3156	1/1	0.92	0.21	63,63,63,63	0
58	MG	1H	3131	1/1	0.92	0.28	57,57,57,57	0
58	MG	1H	3400	1/1	0.92	0.20	54,54,54,54	0
58	MG	1H	3496	1/1	0.92	0.12	59,59,59,59	0
58	MG	1H	3082	1/1	0.92	0.17	61,61,61,61	0
58	MG	1H	3417	1/1	0.92	0.11	66,66,66,66	0
58	MG	C5	201	1/1	0.92	0.32	105,105,105,105	0
58	MG	14	3018	1/1	0.92	0.16	50,50,50,50	0
58	MG	4K	101	1/1	0.92	0.21	73,73,73,73	0
58	MG	1H	3006	1/1	0.92	0.23	57,57,57,57	0
58	MG	1G	1609	1/1	0.93	0.11	81,81,81,81	0
58	MG	1H	3149	1/1	0.93	0.22	61,61,61,61	0
58	MG	14	3179	1/1	0.93	0.27	72,72,72,72	0
58	MG	1H	3439	1/1	0.93	0.13	51,51,51,51	0
58	MG	1H	3222	1/1	0.93	0.11	58,58,58,58	0
58	MG	1H	3443	1/1	0.93	0.11	66,66,66,66	0
58	MG	14	3284	1/1	0.93	0.43	94,94,94,94	0
58	MG	13	1676	1/1	0.93	0.09	88,88,88,88	0
58	MG	13	1660	1/1	0.93	0.30	86,86,86,86	0
58	MG	13	1678	1/1	0.93	0.11	89,89,89,89	0
58	MG	1H	3191	1/1	0.93	0.45	70,70,70,70	0
58	MG	13	1610	1/1	0.93	0.20	66,66,66,66	0
58	MG	1G	1627	1/1	0.93	0.18	88,88,88,88	0
58	MG	1G	1695	1/1	0.93	0.08	96,96,96,96	0
58	MG	1G	1696	1/1	0.93	0.04	109,109,109,109	0
58	MG	1H	3193	1/1	0.93	0.14	60,60,60,60	0
58	MG	14	3197	1/1	0.93	0.19	73,73,73,73	0
58	MG	14	3083	1/1	0.93	0.18	88,88,88,88	0
58	MG	13	1612	1/1	0.93	0.29	89,89,89,89	0
58	MG	14	3307	1/1	0.93	0.12	49,49,49,49	0
58	MG	13	1728	1/1	0.93	0.13	95,95,95,95	0
58	MG	1H	3237	1/1	0.93	0.28	72,72,72,72	0
58	MG	14	3333	1/1	0.93	0.13	67,67,67,67	0
58	MG	14	3213	1/1	0.93	0.19	75,75,75,75	0
58	MG	14	3097	1/1	0.93	0.21	77,77,77,77	0
58	MG	14	3098	1/1	0.93	0.16	71,71,71,71	0
58	MG	14	3217	1/1	0.93	0.17	101,101,101,101	0
58	MG	14	3219	1/1	0.93	0.18	51,51,51,51	0
58	MG	14	3354	1/1	0.93	0.15	56,56,56,56	0
58	MG	14	3104	1/1	0.93	0.15	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3089	1/1	0.93	0.31	72,72,72,72	0
58	MG	14	3362	1/1	0.93	0.06	56,56,56,56	0
58	MG	14	3363	1/1	0.93	0.12	54,54,54,54	0
58	MG	14	3110	1/1	0.93	0.10	55,55,55,55	0
58	MG	1H	3465	1/1	0.93	0.14	76,76,76,76	0
58	MG	16	207	1/1	0.93	0.25	88,88,88,88	0
58	MG	14	3368	1/1	0.93	0.06	89,89,89,89	0
58	MG	14	3230	1/1	0.93	0.60	82,82,82,82	0
58	MG	1H	3359	1/1	0.93	0.13	60,60,60,60	0
58	MG	13	1695	1/1	0.93	0.19	83,83,83,83	0
58	MG	14	3007	1/1	0.93	0.33	68,68,68,68	0
58	MG	14	3373	1/1	0.93	0.06	64,64,64,64	0
58	MG	14	3375	1/1	0.93	0.11	89,89,89,89	0
58	MG	14	3009	1/1	0.93	0.15	66,66,66,66	0
58	MG	14	3124	1/1	0.93	0.23	76,76,76,76	0
58	MG	1H	3128	1/1	0.93	0.20	66,66,66,66	0
58	MG	16	212	1/1	0.93	0.04	81,81,81,81	0
58	MG	14	3138	1/1	0.93	0.11	94,94,94,94	0
58	MG	1H	3163	1/1	0.93	0.28	65,65,65,65	0
58	MG	14	3014	1/1	0.93	0.17	77,77,77,77	0
58	MG	13	1607	1/1	0.93	0.28	71,71,71,71	0
58	MG	1H	3319	1/1	0.93	0.22	83,83,83,83	0
58	MG	1H	3094	1/1	0.93	0.21	54,54,54,54	0
58	MG	1H	3095	1/1	0.93	0.18	49,49,49,49	0
58	MG	14	3393	1/1	0.93	0.17	76,76,76,76	0
58	MG	13	1656	1/1	0.93	0.25	79,79,79,79	0
58	MG	14	3022	1/1	0.93	0.20	78,78,78,78	0
58	MG	1H	3036	1/1	0.93	0.30	65,65,65,65	0
58	MG	13	1674	1/1	0.93	0.16	77,77,77,77	0
58	MG	1H	3413	1/1	0.93	0.09	50,50,50,50	0
58	MG	1H	3414	1/1	0.93	0.28	64,64,64,64	0
58	MG	14	3027	1/1	0.93	0.31	81,81,81,81	0
58	MG	14	3161	1/1	0.93	0.21	74,74,74,74	0
58	MG	14	3028	1/1	0.93	0.17	99,99,99,99	0
58	MG	1H	3251	1/1	0.93	0.28	79,79,79,79	0
58	MG	14	3030	1/1	0.93	0.16	70,70,70,70	0
58	MG	1G	1663	1/1	0.93	0.14	112,112,112,112	0
58	MG	13	1641	1/1	0.93	0.11	69,69,69,69	0
58	MG	1H	3212	1/1	0.93	0.29	70,70,70,70	0
58	MG	1H	3179	1/1	0.93	0.39	67,67,67,67	0
58	MG	1H	3255	1/1	0.93	0.34	83,83,83,83	0
58	MG	1H	3215	1/1	0.93	0.12	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	3022	1/1	0.93	0.12	88,88,88,88	0
60	ZN	32	301	1/1	0.93	0.38	112,112,112,112	0
58	MG	13	1711	1/1	0.93	0.26	76,76,76,76	0
58	MG	1H	3148	1/1	0.93	0.24	78,78,78,78	0
58	MG	1H	3381	1/1	0.94	0.16	62,62,62,62	0
58	MG	1H	3382	1/1	0.94	0.09	71,71,71,71	0
58	MG	1G	1632	1/1	0.94	0.30	83,83,83,83	0
58	MG	13	1679	1/1	0.94	0.15	75,75,75,75	0
58	MG	1H	3387	1/1	0.94	0.14	65,65,65,65	0
58	MG	1H	3076	1/1	0.94	0.24	51,51,51,51	0
58	MG	14	3086	1/1	0.94	0.17	67,67,67,67	0
58	MG	14	3287	1/1	0.94	0.15	96,96,96,96	0
58	MG	1H	3468	1/1	0.94	0.11	63,63,63,63	0
58	MG	14	3089	1/1	0.94	0.24	81,81,81,81	0
58	MG	14	3003	1/1	0.94	0.24	77,77,77,77	0
58	MG	14	3091	1/1	0.94	0.12	57,57,57,57	0
58	MG	14	3096	1/1	0.94	0.24	73,73,73,73	0
58	MG	14	3295	1/1	0.94	0.18	79,79,79,79	0
58	MG	1G	1642	1/1	0.94	0.18	92,92,92,92	0
58	MG	14	3198	1/1	0.94	0.26	94,94,94,94	0
58	MG	1H	3210	1/1	0.94	0.34	67,67,67,67	0
58	MG	14	3202	1/1	0.94	0.25	64,64,64,64	0
58	MG	1H	3393	1/1	0.94	0.10	58,58,58,58	0
58	MG	14	3301	1/1	0.94	0.15	87,87,87,87	0
58	MG	14	3305	1/1	0.94	0.09	69,69,69,69	0
58	MG	14	3205	1/1	0.94	0.16	58,58,58,58	0
58	MG	14	3312	1/1	0.94	0.12	88,88,88,88	0
58	MG	14	3317	1/1	0.94	0.12	48,48,48,48	0
58	MG	1H	3394	1/1	0.94	0.15	70,70,70,70	0
58	MG	14	3208	1/1	0.94	0.14	83,83,83,83	0
58	MG	14	3332	1/1	0.94	0.16	64,64,64,64	0
58	MG	14	3209	1/1	0.94	0.17	81,81,81,81	0
58	MG	13	1616	1/1	0.94	0.22	65,65,65,65	0
58	MG	14	3335	1/1	0.94	0.16	80,80,80,80	0
58	MG	14	3111	1/1	0.94	0.18	92,92,92,92	0
58	MG	14	3214	1/1	0.94	0.25	75,75,75,75	0
58	MG	14	3344	1/1	0.94	0.13	64,64,64,64	0
58	MG	14	3346	1/1	0.94	0.10	74,74,74,74	0
58	MG	14	3348	1/1	0.94	0.08	76,76,76,76	0
58	MG	13	1690	1/1	0.94	0.28	90,90,90,90	0
58	MG	2K	101	1/1	0.94	0.22	66,66,66,66	0
58	MG	1H	3406	1/1	0.94	0.19	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3355	1/1	0.94	0.09	64,64,64,64	0
58	MG	14	3218	1/1	0.94	0.15	71,71,71,71	0
58	MG	21	302	1/1	0.94	0.17	68,68,68,68	0
58	MG	13	1618	1/1	0.94	0.20	63,63,63,63	0
58	MG	1H	3216	1/1	0.94	0.27	71,71,71,71	0
58	MG	13	1717	1/1	0.94	0.07	76,76,76,76	0
58	MG	1H	3420	1/1	0.94	0.14	50,50,50,50	0
58	MG	14	3127	1/1	0.94	0.14	54,54,54,54	0
58	MG	1H	3141	1/1	0.94	0.14	40,40,40,40	0
58	MG	14	3134	1/1	0.94	0.17	62,62,62,62	0
58	MG	14	3137	1/1	0.94	0.20	78,78,78,78	0
58	MG	14	3233	1/1	0.94	0.10	63,63,63,63	0
58	MG	1H	3219	1/1	0.94	0.12	70,70,70,70	0
58	MG	1H	3144	1/1	0.94	0.30	49,49,49,49	0
58	MG	14	3141	1/1	0.94	0.11	46,46,46,46	0
58	MG	1H	3197	1/1	0.94	0.21	63,63,63,63	0
58	MG	14	3377	1/1	0.94	0.14	107,107,107,107	0
58	MG	14	3378	1/1	0.94	0.07	71,71,71,71	0
58	MG	1H	3312	1/1	0.94	0.13	73,73,73,73	0
58	MG	14	3380	1/1	0.94	0.07	76,76,76,76	0
58	MG	1H	3114	1/1	0.94	0.16	66,66,66,66	0
58	MG	13	1605	1/1	0.94	0.31	76,76,76,76	0
58	MG	1H	3495	1/1	0.94	0.09	47,47,47,47	0
58	MG	13	1722	1/1	0.94	0.10	76,76,76,76	0
58	MG	13	1743	1/1	0.94	0.07	60,60,60,60	0
58	MG	14	3153	1/1	0.94	0.34	60,60,60,60	0
58	MG	1H	3347	1/1	0.94	0.45	78,78,78,78	0
58	MG	1H	3317	1/1	0.94	0.22	84,84,84,84	0
58	MG	14	3157	1/1	0.94	0.15	71,71,71,71	0
58	MG	14	3252	1/1	0.94	0.34	91,91,91,91	0
58	MG	1H	3229	1/1	0.94	0.20	50,50,50,50	0
58	MG	1H	3203	1/1	0.94	0.38	79,79,79,79	0
58	MG	14	3396	1/1	0.94	0.11	53,53,53,53	0
58	MG	1G	1611	1/1	0.94	0.10	91,91,91,91	0
58	MG	14	3256	1/1	0.94	0.42	57,57,57,57	0
58	MG	1H	3231	1/1	0.94	0.26	74,74,74,74	0
58	MG	14	3043	1/1	0.94	0.25	76,76,76,76	0
58	MG	1H	3367	1/1	0.94	0.10	54,54,54,54	0
58	MG	1H	3511	1/1	0.94	0.11	82,82,82,82	0
58	MG	1H	3005	1/1	0.94	0.31	53,53,53,53	0
58	MG	1G	1619	1/1	0.94	0.24	92,92,92,92	0
58	MG	13	1624	1/1	0.94	0.29	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	13	1747	1/1	0.94	0.07	96,96,96,96	0
58	MG	1G	1691	1/1	0.94	0.19	89,89,89,89	0
58	MG	1H	3518	1/1	0.94	0.13	94,94,94,94	0
58	MG	14	3053	1/1	0.94	0.19	45,45,45,45	0
58	MG	49	201	1/1	0.94	0.22	128,128,128,128	0
58	MG	1H	3458	1/1	0.94	0.12	45,45,45,45	0
58	MG	14	3062	1/1	0.94	0.35	75,75,75,75	0
58	MG	13	1625	1/1	0.94	0.15	82,82,82,82	0
58	MG	14	3177	1/1	0.94	0.20	84,84,84,84	0
58	MG	14	3073	1/1	0.94	0.25	91,91,91,91	0
58	MG	16	201	1/1	0.94	0.41	79,79,79,79	0
58	MG	13	1716	1/1	0.95	0.08	73,73,73,73	0
58	MG	14	3152	1/1	0.95	0.21	75,75,75,75	0
58	MG	1H	3369	1/1	0.95	0.18	55,55,55,55	0
58	MG	1H	3476	1/1	0.95	0.11	70,70,70,70	0
58	MG	14	3017	1/1	0.95	0.20	63,63,63,63	0
58	MG	1H	3300	1/1	0.95	0.31	72,72,72,72	0
58	MG	1H	3479	1/1	0.95	0.09	79,79,79,79	0
58	MG	13	1628	1/1	0.95	0.18	58,58,58,58	0
58	MG	1H	3375	1/1	0.95	0.05	81,81,81,81	0
58	MG	13	1740	1/1	0.95	0.10	70,70,70,70	0
58	MG	1H	3151	1/1	0.95	0.28	73,73,73,73	0
58	MG	1H	3380	1/1	0.95	0.12	77,77,77,77	0
58	MG	13	1635	1/1	0.95	0.19	48,48,48,48	0
58	MG	13	1649	1/1	0.95	0.17	79,79,79,79	0
58	MG	1H	3307	1/1	0.95	0.24	60,60,60,60	0
58	MG	1H	3028	1/1	0.95	0.32	64,64,64,64	0
58	MG	1G	1634	1/1	0.95	0.15	84,84,84,84	0
58	MG	1H	3106	1/1	0.95	0.17	49,49,49,49	0
58	MG	1H	3390	1/1	0.95	0.12	56,56,56,56	0
58	MG	1H	3256	1/1	0.95	0.15	58,58,58,58	0
58	MG	1G	1638	1/1	0.95	0.30	84,84,84,84	0
58	MG	1H	3029	1/1	0.95	0.31	72,72,72,72	0
58	MG	14	3036	1/1	0.95	0.19	67,67,67,67	0
58	MG	1H	3158	1/1	0.95	0.11	44,44,44,44	0
58	MG	1G	1644	1/1	0.95	0.21	110,110,110,110	0
58	MG	1H	3053	1/1	0.95	0.37	66,66,66,66	0
58	MG	13	1744	1/1	0.95	0.08	89,89,89,89	0
58	MG	1H	3504	1/1	0.95	0.12	66,66,66,66	0
58	MG	14	3303	1/1	0.95	0.14	53,53,53,53	0
58	MG	1H	3505	1/1	0.95	0.09	41,41,41,41	0
58	MG	1H	3506	1/1	0.95	0.09	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3507	1/1	0.95	0.10	43,43,43,43	0
58	MG	1G	1653	1/1	0.95	0.29	78,78,78,78	0
58	MG	1H	3213	1/1	0.95	0.15	43,43,43,43	0
58	MG	13	1689	1/1	0.95	0.20	118,118,118,118	0
58	MG	14	3329	1/1	0.95	0.09	54,54,54,54	0
58	MG	14	3330	1/1	0.95	0.11	53,53,53,53	0
58	MG	13	1746	1/1	0.95	0.07	84,84,84,84	0
58	MG	1H	3066	1/1	0.95	0.25	48,48,48,48	0
58	MG	14	3194	1/1	0.95	0.13	61,61,61,61	0
58	MG	14	3057	1/1	0.95	0.21	62,62,62,62	0
58	MG	14	3059	1/1	0.95	0.13	55,55,55,55	0
58	MG	1H	3415	1/1	0.95	0.12	63,63,63,63	0
58	MG	14	3339	1/1	0.95	0.09	62,62,62,62	0
58	MG	14	3340	1/1	0.95	0.09	67,67,67,67	0
58	MG	1H	3068	1/1	0.95	0.17	50,50,50,50	0
58	MG	14	3063	1/1	0.95	0.22	70,70,70,70	0
58	MG	1H	3418	1/1	0.95	0.10	70,70,70,70	0
58	MG	14	3203	1/1	0.95	0.28	83,83,83,83	0
58	MG	14	3071	1/1	0.95	0.15	42,42,42,42	0
58	MG	1H	3071	1/1	0.95	0.18	39,39,39,39	0
58	MG	1H	3170	1/1	0.95	0.41	77,77,77,77	0
58	MG	1H	3173	1/1	0.95	0.24	65,65,65,65	0
58	MG	14	3360	1/1	0.95	0.07	69,69,69,69	0
58	MG	1H	3323	1/1	0.95	0.34	78,78,78,78	0
58	MG	1H	3324	1/1	0.95	0.18	76,76,76,76	0
58	MG	14	3081	1/1	0.95	0.21	80,80,80,80	0
58	MG	14	3364	1/1	0.95	0.08	75,75,75,75	0
58	MG	1G	1669	1/1	0.95	0.12	80,80,80,80	0
58	MG	1H	3073	1/1	0.95	0.24	73,73,73,73	0
58	MG	1H	3074	1/1	0.95	0.40	88,88,88,88	0
58	MG	1H	3124	1/1	0.95	0.18	39,39,39,39	0
58	MG	13	1650	1/1	0.95	0.27	72,72,72,72	0
58	MG	1H	3226	1/1	0.95	0.17	89,89,89,89	0
58	MG	1H	3276	1/1	0.95	0.12	55,55,55,55	0
58	MG	13	1727	1/1	0.95	0.09	55,55,55,55	0
58	MG	14	3094	1/1	0.95	0.12	76,76,76,76	0
58	MG	14	3224	1/1	0.95	0.19	77,77,77,77	0
58	MG	14	3225	1/1	0.95	0.20	57,57,57,57	0
58	MG	13	1681	1/1	0.95	0.11	66,66,66,66	0
58	MG	1H	3444	1/1	0.95	0.09	82,82,82,82	0
58	MG	1H	3037	1/1	0.95	0.30	62,62,62,62	0
58	MG	14	3099	1/1	0.95	0.17	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3102	1/1	0.95	0.19	73,73,73,73	0
58	MG	14	3382	1/1	0.95	0.09	81,81,81,81	0
58	MG	14	3103	1/1	0.95	0.32	78,78,78,78	0
58	MG	11	302	1/1	0.95	0.12	35,35,35,35	0
58	MG	2I	201	1/1	0.95	0.17	77,77,77,77	0
58	MG	1H	3232	1/1	0.95	0.11	72,72,72,72	0
58	MG	1H	3452	1/1	0.95	0.08	74,74,74,74	0
58	MG	1H	3134	1/1	0.95	0.22	50,50,50,50	0
58	MG	13	1730	1/1	0.95	0.07	67,67,67,67	0
58	MG	1H	3455	1/1	0.95	0.15	66,66,66,66	0
58	MG	1H	3456	1/1	0.95	0.08	80,80,80,80	0
58	MG	13	1613	1/1	0.95	0.27	83,83,83,83	0
58	MG	13	1734	1/1	0.95	0.07	100,100,100,100	0
58	MG	1H	3083	1/1	0.95	0.30	68,68,68,68	0
58	MG	14	3247	1/1	0.95	0.26	85,85,85,85	0
58	MG	1H	3139	1/1	0.95	0.25	52,52,52,52	0
58	MG	14	3249	1/1	0.95	0.23	65,65,65,65	0
58	MG	1H	3462	1/1	0.95	0.09	79,79,79,79	0
58	MG	1H	3085	1/1	0.95	0.13	69,69,69,69	0
58	MG	14	3130	1/1	0.95	0.29	85,85,85,85	0
58	MG	14	3405	1/1	0.95	0.17	75,75,75,75	0
58	MG	1H	3142	1/1	0.95	0.21	39,39,39,39	0
58	MG	1H	3143	1/1	0.95	0.22	50,50,50,50	0
58	MG	1H	3244	1/1	0.95	0.38	98,98,98,98	0
58	MG	14	3002	1/1	0.95	0.23	64,64,64,64	0
58	MG	1H	3467	1/1	0.95	0.18	69,69,69,69	0
58	MG	14	3142	1/1	0.95	0.36	88,88,88,88	0
58	MG	13	1667	1/1	0.95	0.22	82,82,82,82	0
58	MG	1H	3351	1/1	0.95	0.15	53,53,53,53	0
58	MG	1H	3296	1/1	0.95	0.22	72,72,72,72	0
58	MG	13	1611	1/1	0.95	0.28	71,71,71,71	0
58	MG	14	3267	1/1	0.95	0.13	79,79,79,79	0
58	MG	2K	104	1/1	0.95	0.12	80,80,80,80	0
58	MG	1H	3361	1/1	0.95	0.09	64,64,64,64	0
58	MG	14	3150	1/1	0.95	0.18	50,50,50,50	0
58	MG	14	3041	1/1	0.96	0.18	66,66,66,66	0
58	MG	1G	1654	1/1	0.96	0.23	85,85,85,85	0
58	MG	1H	3168	1/1	0.96	0.20	64,64,64,64	0
58	MG	1H	3450	1/1	0.96	0.10	62,62,62,62	0
58	MG	1H	3357	1/1	0.96	0.10	35,35,35,35	0
58	MG	1H	3129	1/1	0.96	0.09	63,63,63,63	0
58	MG	1H	3088	1/1	0.96	0.18	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	14	3174	1/1	0.96	0.17	84,84,84,84	0
58	MG	1H	3364	1/1	0.96	0.14	47,47,47,47	0
58	MG	1H	3171	1/1	0.96	0.15	58,58,58,58	0
58	MG	1H	3172	1/1	0.96	0.35	79,79,79,79	0
58	MG	13	1639	1/1	0.96	0.16	55,55,55,55	0
58	MG	1G	1664	1/1	0.96	0.14	92,92,92,92	0
58	MG	13	1729	1/1	0.96	0.12	86,86,86,86	0
58	MG	1G	1666	1/1	0.96	0.15	84,84,84,84	0
58	MG	1H	3374	1/1	0.96	0.07	90,90,90,90	0
58	MG	1H	3461	1/1	0.96	0.13	51,51,51,51	0
58	MG	1H	3055	1/1	0.96	0.31	85,85,85,85	0
58	MG	14	3068	1/1	0.96	0.16	60,60,60,60	0
58	MG	14	3069	1/1	0.96	0.18	60,60,60,60	0
58	MG	14	3187	1/1	0.96	0.14	47,47,47,47	0
58	MG	13	1626	1/1	0.96	0.33	90,90,90,90	0
58	MG	1H	3377	1/1	0.96	0.09	61,61,61,61	0
58	MG	14	3310	1/1	0.96	0.07	56,56,56,56	0
58	MG	14	3192	1/1	0.96	0.11	59,59,59,59	0
58	MG	14	3313	1/1	0.96	0.08	48,48,48,48	0
58	MG	13	1629	1/1	0.96	0.24	69,69,69,69	0
58	MG	14	3318	1/1	0.96	0.10	47,47,47,47	0
58	MG	14	3319	1/1	0.96	0.16	65,65,65,65	0
58	MG	1H	3096	1/1	0.96	0.21	50,50,50,50	0
58	MG	1H	3064	1/1	0.96	0.18	43,43,43,43	0
58	MG	14	3327	1/1	0.96	0.06	58,58,58,58	0
58	MG	1H	3181	1/1	0.96	0.23	63,63,63,63	0
58	MG	1H	3182	1/1	0.96	0.34	61,61,61,61	0
58	MG	14	3331	1/1	0.96	0.09	56,56,56,56	0
58	MG	14	3078	1/1	0.96	0.18	63,63,63,63	0
58	MG	14	3199	1/1	0.96	0.35	96,96,96,96	0
58	MG	1H	3386	1/1	0.96	0.14	50,50,50,50	0
58	MG	1H	3225	1/1	0.96	0.19	79,79,79,79	0
58	MG	13	1614	1/1	0.96	0.23	86,86,86,86	0
58	MG	1H	3227	1/1	0.96	0.35	87,87,87,87	0
58	MG	14	3085	1/1	0.96	0.21	52,52,52,52	0
58	MG	13	1735	1/1	0.96	0.12	84,84,84,84	0
58	MG	14	3207	1/1	0.96	0.12	68,68,68,68	0
58	MG	1G	1683	1/1	0.96	0.07	61,61,61,61	0
58	MG	1H	3102	1/1	0.96	0.24	60,60,60,60	0
58	MG	1G	1686	1/1	0.96	0.10	84,84,84,84	0
58	MG	14	3212	1/1	0.96	0.17	75,75,75,75	0
58	MG	1H	3104	1/1	0.96	0.17	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1G	1603	1/1	0.96	0.18	87,87,87,87	0
58	MG	14	3357	1/1	0.96	0.10	69,69,69,69	0
58	MG	14	3095	1/1	0.96	0.13	83,83,83,83	0
58	MG	1G	1690	1/1	0.96	0.12	104,104,104,104	0
58	MG	1H	3396	1/1	0.96	0.07	69,69,69,69	0
58	MG	1H	3070	1/1	0.96	0.31	68,68,68,68	0
58	MG	13	1748	1/1	0.96	0.10	82,82,82,82	0
58	MG	1H	3402	1/1	0.96	0.09	53,53,53,53	0
58	MG	1G	1608	1/1	0.96	0.16	72,72,72,72	0
58	MG	1H	3189	1/1	0.96	0.14	61,61,61,61	0
58	MG	1H	3107	1/1	0.96	0.18	52,52,52,52	0
58	MG	14	3107	1/1	0.96	0.20	58,58,58,58	0
58	MG	1H	3486	1/1	0.96	0.14	50,50,50,50	0
58	MG	1H	3408	1/1	0.96	0.14	49,49,49,49	0
58	MG	14	3114	1/1	0.96	0.36	79,79,79,79	0
58	MG	1H	3410	1/1	0.96	0.10	33,33,33,33	0
58	MG	1G	1615	1/1	0.96	0.17	85,85,85,85	0
58	MG	14	3374	1/1	0.96	0.10	86,86,86,86	0
58	MG	1H	3412	1/1	0.96	0.09	50,50,50,50	0
58	MG	14	3120	1/1	0.96	0.07	54,54,54,54	0
58	MG	1H	3108	1/1	0.96	0.12	50,50,50,50	0
58	MG	1H	3072	1/1	0.96	0.26	61,61,61,61	0
58	MG	1H	3004	1/1	0.96	0.35	68,68,68,68	0
58	MG	1G	1622	1/1	0.96	0.21	81,81,81,81	0
58	MG	14	3125	1/1	0.96	0.20	70,70,70,70	0
58	MG	14	3008	1/1	0.96	0.19	65,65,65,65	0
58	MG	1H	3416	1/1	0.96	0.11	67,67,67,67	0
58	MG	1H	3238	1/1	0.96	0.65	52,52,52,52	0
58	MG	1H	3239	1/1	0.96	0.10	67,67,67,67	0
58	MG	14	3132	1/1	0.96	0.15	44,44,44,44	0
58	MG	14	3388	1/1	0.96	0.10	79,79,79,79	0
58	MG	1H	3498	1/1	0.96	0.11	47,47,47,47	0
58	MG	14	3136	1/1	0.96	0.25	49,49,49,49	0
58	MG	1H	3111	1/1	0.96	0.27	44,44,44,44	0
58	MG	1G	1629	1/1	0.96	0.28	96,96,96,96	0
58	MG	1H	3152	1/1	0.96	0.27	71,71,71,71	0
58	MG	13	1658	1/1	0.96	0.26	92,92,92,92	0
58	MG	13	1659	1/1	0.96	0.36	68,68,68,68	0
58	MG	1H	3425	1/1	0.96	0.16	49,49,49,49	0
58	MG	5E	201	1/1	0.96	0.21	67,67,67,67	0
58	MG	1H	3201	1/1	0.96	0.16	41,41,41,41	0
58	MG	1H	3115	1/1	0.96	0.21	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1632	1/1	0.96	0.24	71,71,71,71	0
58	MG	13	1645	1/1	0.96	0.26	69,69,69,69	0
58	MG	1G	1640	1/1	0.96	0.14	83,83,83,83	0
58	MG	1H	3435	1/1	0.96	0.08	82,82,82,82	0
58	MG	13	1637	1/1	0.96	0.12	66,66,66,66	0
58	MG	1K	101	1/1	0.96	0.08	85,85,85,85	0
58	MG	1J	201	1/1	0.96	0.40	76,76,76,76	0
58	MG	1G	1645	1/1	0.96	0.19	142,142,142,142	0
58	MG	1H	3013	1/1	0.96	0.23	52,52,52,52	0
58	MG	14	3270	1/1	0.96	0.20	95,95,95,95	0
58	MG	1H	3516	1/1	0.96	0.07	86,86,86,86	0
58	MG	1H	3517	1/1	0.96	0.13	57,57,57,57	0
58	MG	1H	3050	1/1	0.96	0.27	63,63,63,63	0
58	MG	1H	3349	1/1	0.96	0.14	40,40,40,40	0
58	MG	1H	3032	1/1	0.96	0.23	82,82,82,82	0
58	MG	J5	101	1/1	0.96	0.11	52,52,52,52	0
59	PAR	1G	1697	42/42	0.96	0.19	75,80,88,91	0
60	ZN	5I	103	1/1	0.96	0.18	91,91,91,91	0
58	MG	14	3037	1/1	0.96	0.16	82,82,82,82	0
58	MG	1G	1652	1/1	0.96	0.19	81,81,81,81	0
58	MG	1K	102	1/1	0.96	0.21	72,72,72,72	0
58	MG	14	3040	1/1	0.96	0.15	82,82,82,82	0
58	MG	1H	3362	1/1	0.97	0.15	41,41,41,41	0
58	MG	1H	3363	1/1	0.97	0.14	40,40,40,40	0
58	MG	16	211	1/1	0.97	0.09	70,70,70,70	0
58	MG	13	1724	1/1	0.97	0.11	96,96,96,96	0
58	MG	14	3072	1/1	0.97	0.22	74,74,74,74	0
58	MG	1H	3366	1/1	0.97	0.14	56,56,56,56	0
58	MG	14	3238	1/1	0.97	0.11	86,86,86,86	0
58	MG	1H	3116	1/1	0.97	0.37	51,51,51,51	0
58	MG	1H	3145	1/1	0.97	0.38	76,76,76,76	0
58	MG	14	3241	1/1	0.97	0.28	80,80,80,80	0
58	MG	1H	3482	1/1	0.97	0.10	54,54,54,54	0
58	MG	14	3342	1/1	0.97	0.09	49,49,49,49	0
58	MG	14	3005	1/1	0.97	0.28	60,60,60,60	0
58	MG	21	301	1/1	0.97	0.27	54,54,54,54	0
58	MG	14	3080	1/1	0.97	0.21	62,62,62,62	0
58	MG	14	3351	1/1	0.97	0.18	87,87,87,87	0
58	MG	1H	3483	1/1	0.97	0.07	90,90,90,90	0
58	MG	1H	3370	1/1	0.97	0.07	55,55,55,55	0
58	MG	13	1638	1/1	0.97	0.25	62,62,62,62	0
58	MG	1H	3069	1/1	0.97	0.15	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	3432	1/1	0.97	0.10	70,70,70,70	0
58	MG	1H	3260	1/1	0.97	0.22	35,35,35,35	0
58	MG	1H	3490	1/1	0.97	0.10	64,64,64,64	0
58	MG	13	1621	1/1	0.97	0.14	74,74,74,74	0
58	MG	1H	3328	1/1	0.97	0.25	56,56,56,56	0
58	MG	1H	3437	1/1	0.97	0.18	54,54,54,54	0
58	MG	14	3093	1/1	0.97	0.18	63,63,63,63	0
58	MG	1H	3014	1/1	0.97	0.15	58,58,58,58	0
58	MG	1H	3263	1/1	0.97	0.49	56,56,56,56	0
58	MG	14	3260	1/1	0.97	0.20	100,100,100,100	0
58	MG	14	3021	1/1	0.97	0.23	73,73,73,73	0
58	MG	13	1603	1/1	0.97	0.34	50,50,50,50	0
58	MG	14	3264	1/1	0.97	0.19	77,77,77,77	0
58	MG	13	1663	1/1	0.97	0.34	62,62,62,62	0
58	MG	13	1623	1/1	0.97	0.23	62,62,62,62	0
58	MG	14	3101	1/1	0.97	0.15	65,65,65,65	0
58	MG	13	1714	1/1	0.97	0.12	45,45,45,45	0
58	MG	1H	3103	1/1	0.97	0.20	58,58,58,58	0
58	MG	1H	3501	1/1	0.97	0.09	42,42,42,42	0
58	MG	1H	3336	1/1	0.97	0.13	62,62,62,62	0
58	MG	14	3189	1/1	0.97	0.15	46,46,46,46	0
58	MG	1H	3451	1/1	0.97	0.10	55,55,55,55	0
58	MG	14	3108	1/1	0.97	0.23	50,50,50,50	0
58	MG	13	1602	1/1	0.97	0.27	49,49,49,49	0
58	MG	1H	3003	1/1	0.97	0.24	49,49,49,49	0
58	MG	14	3113	1/1	0.97	0.23	62,62,62,62	0
58	MG	1G	1612	1/1	0.97	0.22	83,83,83,83	0
58	MG	1H	3391	1/1	0.97	0.05	60,60,60,60	0
58	MG	1G	1673	1/1	0.97	0.09	92,92,92,92	0
58	MG	1H	3304	1/1	0.97	0.12	71,71,71,71	0
58	MG	13	1620	1/1	0.97	0.30	72,72,72,72	0
58	MG	13	1719	1/1	0.97	0.10	67,67,67,67	0
58	MG	1G	1617	1/1	0.97	0.12	74,74,74,74	0
58	MG	1H	3395	1/1	0.97	0.14	36,36,36,36	0
58	MG	1H	3512	1/1	0.97	0.09	44,44,44,44	0
58	MG	13	1720	1/1	0.97	0.12	82,82,82,82	0
58	MG	1H	3397	1/1	0.97	0.08	49,49,49,49	0
58	MG	1H	3160	1/1	0.97	0.35	79,79,79,79	0
58	MG	13	1685	1/1	0.97	0.18	74,74,74,74	0
58	MG	1H	3190	1/1	0.97	0.25	69,69,69,69	0
58	MG	14	3210	1/1	0.97	0.14	51,51,51,51	0
58	MG	14	3131	1/1	0.97	0.28	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	1H	3058	1/1	0.97	0.24	36,36,36,36	0
58	MG	1H	3278	1/1	0.97	0.21	106,106,106,106	0
58	MG	14	3135	1/1	0.97	0.12	54,54,54,54	0
58	MG	13	1631	1/1	0.97	0.22	82,82,82,82	0
58	MG	1G	1689	1/1	0.97	0.10	84,84,84,84	0
58	MG	1H	3060	1/1	0.97	0.30	52,52,52,52	0
58	MG	1H	3350	1/1	0.97	0.09	51,51,51,51	0
58	MG	1J	203	1/1	0.97	0.18	100,100,100,100	0
58	MG	1H	3194	1/1	0.97	0.15	40,40,40,40	0
58	MG	1H	3140	1/1	0.97	0.30	69,69,69,69	0
58	MG	29	301	1/1	0.97	0.21	64,64,64,64	0
58	MG	29	302	1/1	0.97	0.19	57,57,57,57	0
58	MG	1H	3166	1/1	0.97	0.24	64,64,64,64	0
58	MG	1H	3061	1/1	0.97	0.28	56,56,56,56	0
58	MG	13	1668	1/1	0.97	0.18	66,66,66,66	0
58	MG	14	3315	1/1	0.97	0.16	57,57,57,57	0
58	MG	55	201	1/1	0.97	0.18	58,58,58,58	0
58	MG	1H	3286	1/1	0.97	0.15	71,71,71,71	0
58	MG	14	3226	1/1	0.97	0.20	67,67,67,67	0
59	PAR	13	1749	42/42	0.97	0.23	52,62,69,75	0
58	MG	14	3064	1/1	0.97	0.20	86,86,86,86	0
58	MG	14	3065	1/1	0.97	0.17	62,62,62,62	0
58	MG	14	3323	1/1	0.97	0.10	65,65,65,65	0
58	MG	14	3066	1/1	0.97	0.20	59,59,59,59	0
58	MG	14	3067	1/1	0.97	0.15	81,81,81,81	0
58	MG	14	3328	1/1	0.97	0.11	49,49,49,49	0
58	MG	1H	3065	1/1	0.98	0.21	43,43,43,43	0
58	MG	1H	3409	1/1	0.98	0.11	41,41,41,41	0
58	MG	14	3336	1/1	0.98	0.10	60,60,60,60	0
58	MG	G8	201	1/1	0.98	0.21	73,73,73,73	0
58	MG	1H	3502	1/1	0.98	0.11	66,66,66,66	0
58	MG	14	3112	1/1	0.98	0.19	65,65,65,65	0
58	MG	13	1715	1/1	0.98	0.12	89,89,89,89	0
58	MG	14	3341	1/1	0.98	0.14	41,41,41,41	0
58	MG	1H	3411	1/1	0.98	0.12	46,46,46,46	0
58	MG	1H	3067	1/1	0.98	0.25	46,46,46,46	0
58	MG	14	3052	1/1	0.98	0.23	59,59,59,59	0
58	MG	14	3347	1/1	0.98	0.11	48,48,48,48	0
58	MG	14	3117	1/1	0.98	0.22	57,57,57,57	0
58	MG	14	3349	1/1	0.98	0.14	62,62,62,62	0
58	MG	14	3350	1/1	0.98	0.08	92,92,92,92	0
58	MG	1H	3372	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	14	3119	1/1	0.98	0.14	49,49,49,49	0
58	MG	14	3188	1/1	0.98	0.11	53,53,53,53	0
58	MG	14	3054	1/1	0.98	0.15	51,51,51,51	0
58	MG	14	3262	1/1	0.98	0.07	78,78,78,78	0
58	MG	14	3356	1/1	0.98	0.08	65,65,65,65	0
58	MG	14	3055	1/1	0.98	0.21	54,54,54,54	0
58	MG	1H	3008	1/1	0.98	0.33	68,68,68,68	0
58	MG	14	3359	1/1	0.98	0.08	73,73,73,73	0
58	MG	1H	3084	1/1	0.98	0.33	69,69,69,69	0
58	MG	1H	3132	1/1	0.98	0.27	62,62,62,62	0
58	MG	14	3061	1/1	0.98	0.20	58,58,58,58	0
58	MG	13	1732	1/1	0.98	0.07	78,78,78,78	0
58	MG	1H	3086	1/1	0.98	0.19	54,54,54,54	0
58	MG	14	3128	1/1	0.98	0.16	58,58,58,58	0
58	MG	14	3006	1/1	0.98	0.21	62,62,62,62	0
58	MG	1H	3087	1/1	0.98	0.22	75,75,75,75	0
58	MG	14	3200	1/1	0.98	0.22	94,94,94,94	0
58	MG	1H	3379	1/1	0.98	0.04	72,72,72,72	0
58	MG	13	1604	1/1	0.98	0.41	81,81,81,81	0
58	MG	1H	3291	1/1	0.98	0.14	86,86,86,86	0
58	MG	13	1640	1/1	0.98	0.10	64,64,64,64	0
58	MG	13	1718	1/1	0.98	0.09	69,69,69,69	0
58	MG	1H	3384	1/1	0.98	0.12	34,34,34,34	0
58	MG	1H	3429	1/1	0.98	0.05	72,72,72,72	0
58	MG	14	3139	1/1	0.98	0.22	63,63,63,63	0
58	MG	1H	3385	1/1	0.98	0.12	45,45,45,45	0
58	MG	1H	3057	1/1	0.98	0.18	44,44,44,44	0
58	MG	1H	3093	1/1	0.98	0.20	53,53,53,53	0
58	MG	1H	3433	1/1	0.98	0.04	73,73,73,73	0
58	MG	1H	3001	1/1	0.98	0.38	53,53,53,53	0
58	MG	1G	1621	1/1	0.98	0.10	90,90,90,90	0
58	MG	14	3079	1/1	0.98	0.20	73,73,73,73	0
58	MG	14	3384	1/1	0.98	0.07	68,68,68,68	0
58	MG	13	1726	1/1	0.98	0.08	93,93,93,93	0
58	MG	14	3291	1/1	0.98	0.18	70,70,70,70	0
58	MG	1H	3167	1/1	0.98	0.20	56,56,56,56	0
58	MG	14	3149	1/1	0.98	0.10	62,62,62,62	0
58	MG	1H	3353	1/1	0.98	0.15	40,40,40,40	0
58	MG	1H	3438	1/1	0.98	0.14	55,55,55,55	0
58	MG	1H	3117	1/1	0.98	0.14	43,43,43,43	0
58	MG	14	3222	1/1	0.98	0.21	75,75,75,75	0
58	MG	1H	3355	1/1	0.98	0.14	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	13	1697	1/1	0.98	0.13	73,73,73,73	0
58	MG	14	3155	1/1	0.98	0.22	65,65,65,65	0
58	MG	1H	3097	1/1	0.98	0.33	69,69,69,69	0
58	MG	14	3302	1/1	0.98	0.24	83,83,83,83	0
58	MG	16	213	1/1	0.98	0.12	66,66,66,66	0
58	MG	14	3399	1/1	0.98	0.11	77,77,77,77	0
58	MG	14	3304	1/1	0.98	0.11	50,50,50,50	0
58	MG	14	3401	1/1	0.98	0.08	45,45,45,45	0
58	MG	14	3228	1/1	0.98	0.26	85,85,85,85	0
58	MG	1H	3489	1/1	0.98	0.17	53,53,53,53	0
58	MG	14	3308	1/1	0.98	0.07	46,46,46,46	0
58	MG	14	3309	1/1	0.98	0.14	59,59,59,59	0
58	MG	1H	3446	1/1	0.98	0.09	59,59,59,59	0
58	MG	14	3311	1/1	0.98	0.09	65,65,65,65	0
58	MG	14	3092	1/1	0.98	0.16	48,48,48,48	0
58	MG	13	1619	1/1	0.98	0.15	75,75,75,75	0
58	MG	14	3314	1/1	0.98	0.12	58,58,58,58	0
58	MG	1G	1684	1/1	0.98	0.09	70,70,70,70	0
58	MG	14	3316	1/1	0.98	0.10	62,62,62,62	0
58	MG	1H	3099	1/1	0.98	0.33	63,63,63,63	0
58	MG	1H	3062	1/1	0.98	0.17	44,44,44,44	0
58	MG	1H	3401	1/1	0.98	0.18	47,47,47,47	0
58	MG	14	3320	1/1	0.98	0.10	42,42,42,42	0
58	MG	13	1617	1/1	0.98	0.17	60,60,60,60	0
58	MG	14	3322	1/1	0.98	0.06	72,72,72,72	0
58	MG	1G	1639	1/1	0.98	0.16	80,80,80,80	0
58	MG	14	3325	1/1	0.98	0.09	76,76,76,76	0
58	MG	14	3100	1/1	0.98	0.23	66,66,66,66	0
58	MG	1H	3125	1/1	0.98	0.19	47,47,47,47	0
58	MG	14	3170	1/1	0.98	0.10	84,84,84,84	0
60	ZN	3E	303	1/1	0.98	0.44	97,97,97,97	0
58	MG	1H	3404	1/1	0.98	0.15	48,48,48,48	0
58	MG	1H	3176	1/1	0.98	0.30	82,82,82,82	0
58	MG	1G	1693	1/1	0.98	0.12	82,82,82,82	0
58	MG	14	3105	1/1	0.98	0.27	45,45,45,45	0
58	MG	1H	3407	1/1	0.98	0.12	43,43,43,43	0
58	MG	1H	3360	1/1	0.99	0.12	46,46,46,46	0
58	MG	1H	3126	1/1	0.99	0.28	60,60,60,60	0
58	MG	1H	3399	1/1	0.99	0.10	52,52,52,52	0
58	MG	13	1741	1/1	0.99	0.14	82,82,82,82	0
58	MG	1H	3090	1/1	0.99	0.11	37,37,37,37	0
58	MG	1H	3477	1/1	0.99	0.17	62,62,62,62	0

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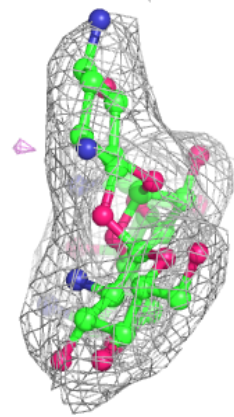
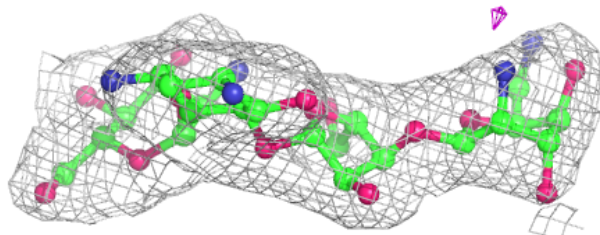
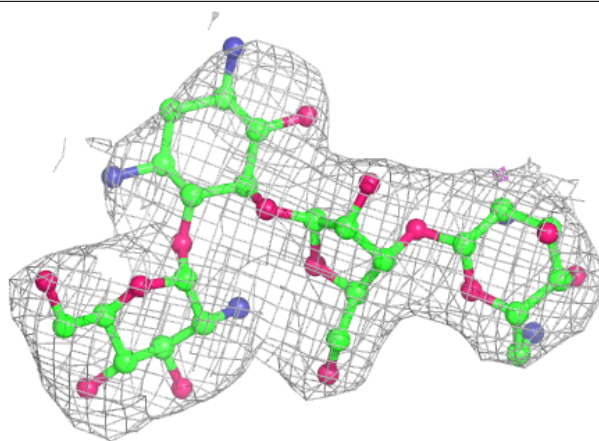
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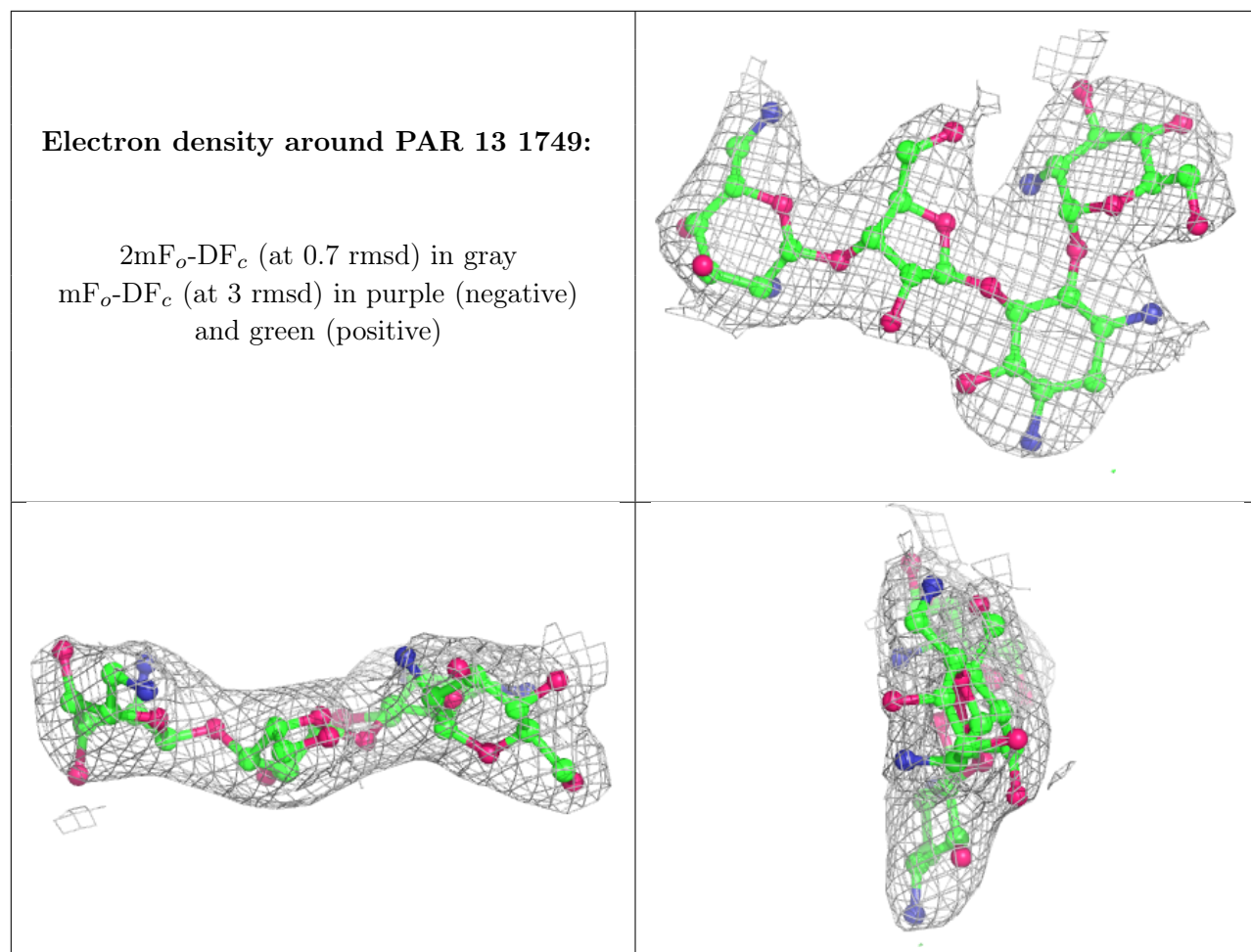
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1H	3388	1/1	0.99	0.08	59,59,59,59	0
58	MG	14	3288	1/1	0.99	0.13	78,78,78,78	0
58	MG	14	3324	1/1	0.99	0.14	62,62,62,62	0
58	MG	13	1731	1/1	0.99	0.10	68,68,68,68	0
58	MG	1G	1641	1/1	0.99	0.13	98,98,98,98	0
58	MG	14	3257	1/1	0.99	0.17	58,58,58,58	0
58	MG	1H	3419	1/1	0.99	0.10	47,47,47,47	0
58	MG	14	3013	1/1	0.99	0.25	56,56,56,56	0
58	MG	1H	3365	1/1	0.99	0.10	44,44,44,44	0
58	MG	1H	3405	1/1	0.99	0.11	43,43,43,43	0
58	MG	14	3133	1/1	0.99	0.21	77,77,77,77	0
58	MG	13	1601	1/1	0.99	0.20	52,52,52,52	0
58	MG	1G	1694	1/1	0.99	0.12	67,67,67,67	0
58	MG	1H	3441	1/1	0.99	0.08	51,51,51,51	0
58	MG	1G	1623	1/1	0.99	0.22	91,91,91,91	0
58	MG	1H	3442	1/1	0.99	0.14	54,54,54,54	0
58	MG	1H	3123	1/1	0.99	0.29	49,49,49,49	0
58	MG	1H	3424	1/1	0.99	0.15	73,73,73,73	0
58	MG	14	3109	1/1	0.99	0.19	62,62,62,62	0
58	MG	2L	101	1/1	0.99	0.15	88,88,88,88	0
58	MG	14	3306	1/1	0.99	0.12	52,52,52,52	0
58	MG	14	3343	1/1	0.99	0.08	47,47,47,47	0
58	MG	1H	3445	1/1	0.99	0.11	44,44,44,44	0
58	MG	14	3345	1/1	0.99	0.14	51,51,51,51	0
58	MG	1H	3368	1/1	0.99	0.14	56,56,56,56	0
58	MG	1H	3356	1/1	0.99	0.12	52,52,52,52	0
58	MG	1H	3427	1/1	0.99	0.12	41,41,41,41	0
58	MG	1H	3002	1/1	0.99	0.22	60,60,60,60	0
58	MG	14	3056	1/1	0.99	0.26	58,58,58,58	0
58	MG	1H	3063	1/1	0.99	0.17	64,64,64,64	0
58	MG	14	3058	1/1	0.99	0.22	58,58,58,58	0
58	MG	14	3088	1/1	0.99	0.20	45,45,45,45	0
58	MG	1H	3358	1/1	1.00	0.09	43,43,43,43	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around PAR 1G 1697:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers [i](#)

There are no such residues in this entry.