wwPDB X-ray Structure Validation Summary Report (i)

Oct 30, 2024 – 05:25 AM EDT

PDB ID	:	4V7Y
Title	:	Structure of the Thermus thermophilus 70S ribosome complexed with azithromycin.
Authors	:	Bulkley, D.P.; Innis, C.A.; Blaha, G.; Steitz, T.A.
Deposited on	:	2010-08-18
Resolution	:	3.00 Å(reported)

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

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

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

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

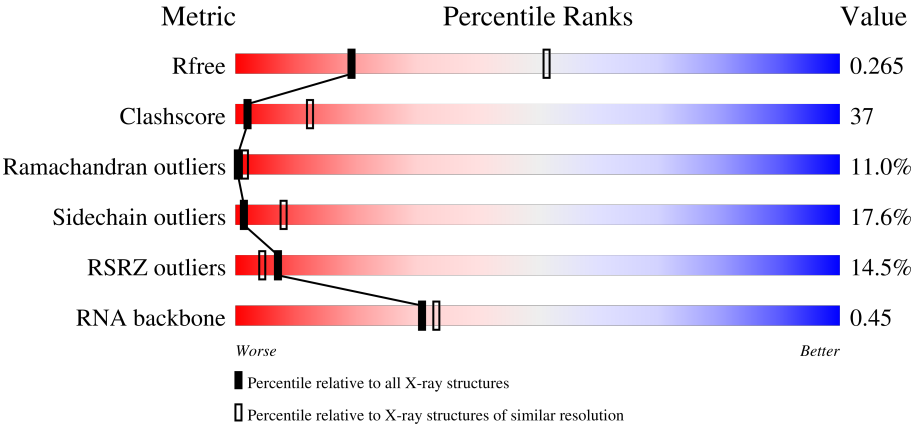
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.00 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}	164625	2511 (3.00-3.00)
Clashscore	180529	2866 (3.00-3.00)
Ramachandran outliers	177936	2778 (3.00-3.00)
Sidechain outliers	177891	2781 (3.00-3.00)
RSRZ outliers	164620	2523 (3.00-3.00)
RNA backbone	3690	1019 (3.20-2.80)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	10% 26% 57% 15% •
1	CA	1522	7% 26% 56% 16% •
2	AB	256	17% 34% 44% 12% • 8%
2	CB	256	15% 36% 43% 12% • 8%

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Mol	Chain	Length	Quality of chain
3	AC	239	10% 38% 41% 8% 13%
3	CC	239	17% 38% 41% 7% 13%
4	AD	209	19% 35% 49% 15%
4	CD	209	18% 34% 50% 14%
5	AE	162	12% 33% 46% 14% 7%
5	CE	162	12% 34% 45% 14% 7%
6	AF	101	13% 29% 57% 14%
6	CF	101	13% 28% 57% 15%
7	AG	156	24% 52% 45%
7	CG	156	23% 51% 45%
8	AH	138	12% 39% 53% 7%
8	CH	138	14% 41% 51% 7%
9	AI	128	32% 38% 53% 9%
9	CI	128	38% 34% 55% 9%
10	AJ	105	31% 37% 50% 8% 6%
10	CJ	105	30% 37% 50% 8% 6%
11	AK	129	22% 39% 47% 5% 8%
11	CK	129	19% 40% 45% 6% 8%
12	AL	135	19% 34% 50% 9% 7%
12	CL	135	23% 35% 49% 9% 7%
13	AM	126	28% 43% 40% 8% 9%
13	CM	126	33% 40% 44% 7% 9%
14	AN	61	34% 46% 46% 7%
14	CN	61	25% 48% 46% 5%
15	AO	89	20% 40% 47% 11%

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Mol	Chain	Length	Quality of chain
15	CO	89	9% 42% 46% 11%
16	AP	88	30% 27% 55% 10% 5%
16	CP	88	27% 26% 56% 11% 5%
17	AQ	105	17% 50% 40% 5% 5%
17	CQ	105	13% 51% 40% 5%
18	AR	88	10% 24% 49% 7% 20%
18	CR	88	3% 26% 45% 8% 20%
19	AS	93	26% 35% 39% 11% 15%
19	CS	93	24% 40% 37% 9% 15%
20	AT	106	26% 28% 53% 12% 7%
20	CT	106	25% 32% 49% 12% 7%
21	AU	27	81% 52% 37% 7%
21	CU	27	74% 52% 37% 7%
22	B0	85	18% 36% 48% 14%
22	D0	85	15% 39% 47% 13%
23	B1	98	30% 22% 38% 24% 6% 9%
23	D1	98	23% 22% 37% 24% 7% 9%
24	B2	72	42% 10% 29% 29% 29%
24	D2	72	32% 8% 35% 24% 29%
25	B3	60	17% 47% 45% 8%
25	D3	60	3% 38% 53% 8%
26	B4	71	17% 18% 13% 14% 55%
26	D4	71	14% 17% 14% 14% 55%
27	B5	60	15% 25% 47% 22% 5%
27	D5	60	12% 27% 47% 20% 5%

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Mol	Chain	Length	Quality of chain
28	B6	54	31% 6% 26% 43% 9% 17%
28	D6	54	28% 6% 28% 43% 7% 17%
29	B7	49	12% 43% 43% 14%
29	D7	49	12% 43% 45% 12%
30	B8	65	32% 23% 43% 28% 5%
30	D8	65	26% 28% 40% 28%
31	BA	2787	5% 26% 44% 23% 5%
31	DA	2787	4% 24% 45% 25%
32	BB	122	26% 20% 48% 26%
32	DB	122	19% 18% 52% 27%
33	BD	276	8% 26% 54% 17%
33	DD	276	5% 30% 49% 18%
34	BE	206	11% 29% 46% 21%
34	DE	206	12% 28% 47% 21%
35	BF	210	9% 34% 47% 17%
35	DF	210	6% 35% 46% 16%
36	BG	182	35% 27% 57% 14%
36	DG	182	33% 27% 55% 16%
37	BH	180	34% 31% 37% 16% 11%
37	DH	180	11% 31% 39% 15% 11%
38	BI	148	29% 24% 52% 20%
38	DI	148	24% 23% 53% 20%
39	BN	140	20% 26% 49% 23%
39	DN	140	10% 28% 47% 23%
40	BO	122	2% 34% 50% 15%

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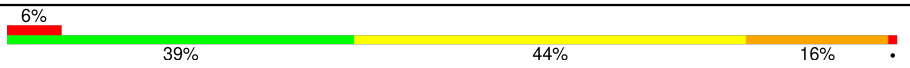
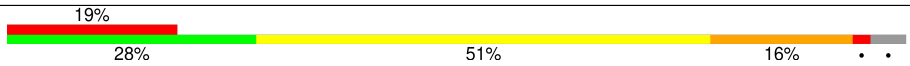
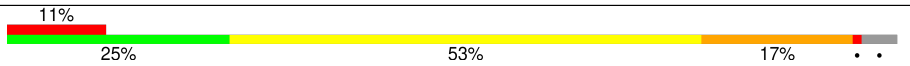
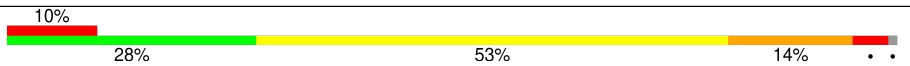
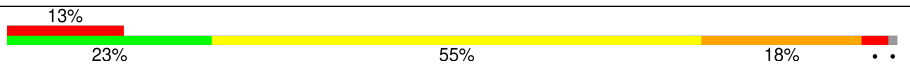
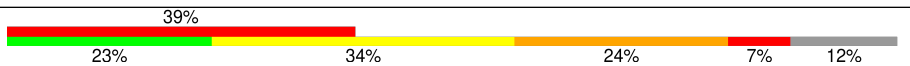
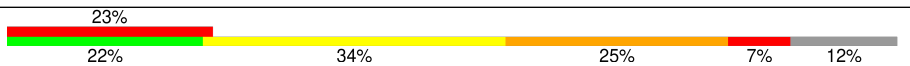
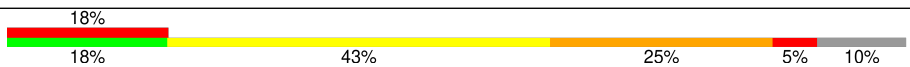
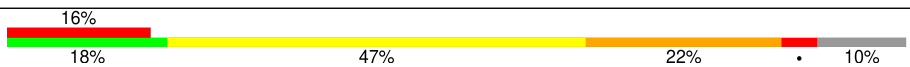
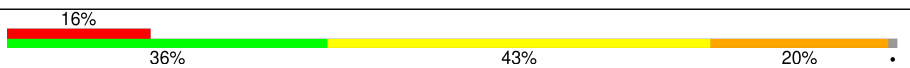
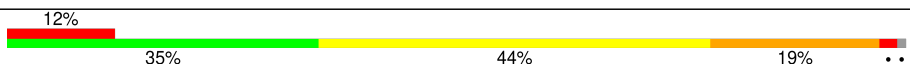
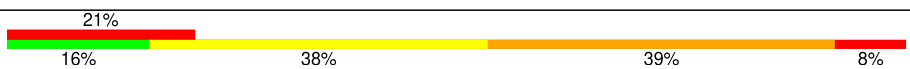
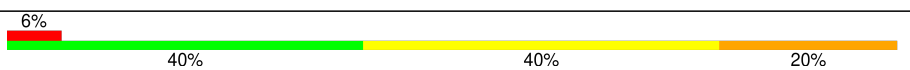
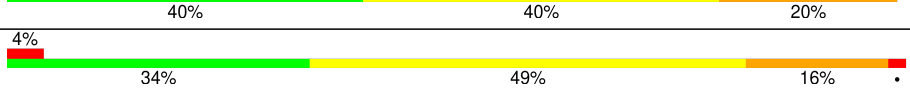
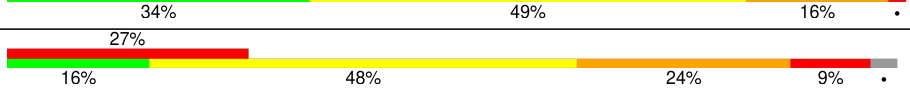
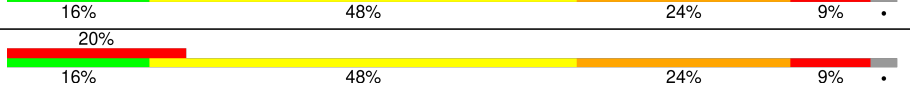
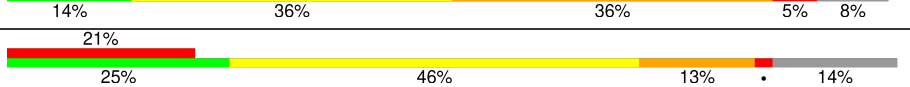
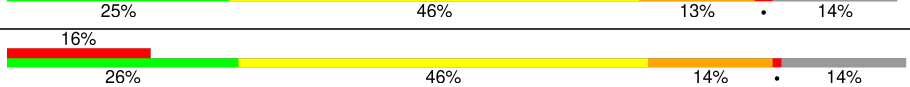
Mol	Chain	Length	Quality of chain
40	DO	122	
41	BP	150	
41	DP	150	
42	BQ	141	
42	DQ	141	
43	BR	118	
43	DR	118	
44	BS	112	
44	DS	112	
45	BT	146	
45	DT	146	
46	BU	118	
46	DU	118	
47	BV	101	
47	DV	101	
48	BW	113	
48	DW	113	
49	BX	96	
49	DX	96	
50	BY	110	
50	DY	110	
51	BZ	206	
51	DZ	206	

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
52	MG	AA	1622	-	-	-	X
52	MG	AA	1646	-	-	-	X
52	MG	BA	3330	-	-	-	X
52	MG	CA	1611	-	-	-	X
52	MG	CA	1633	-	-	-	X
52	MG	CA	1641	-	-	-	X
52	MG	DA	3179	-	-	-	X
52	MG	DA	3216	-	-	-	X
52	MG	DA	3247	-	-	-	X
52	MG	DA	3280	-	-	-	X
52	MG	DA	3289	-	-	-	X
52	MG	DA	3302	-	-	-	X
54	K	DA	3310	-	-	-	X

2 Entry composition (i)

There are 55 unique types of molecules in this entry. The entry contains 278000 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			
1	CA	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			
2	CB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			
3	CC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
4	CD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			
5	CE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	CF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	CG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	CH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	0	0	0
			1011	639	198	174			
9	CI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AI	58	ARG	HIS	conflict	UNP P80374
CI	58	ARG	HIS	conflict	UNP P80374

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			
10	CJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
11	CK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			
12	CL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AL	2	VAL	-	insertion	UNP Q5SHN3
AL	3	ALA	-	insertion	UNP Q5SHN3
AL	4	LEU	-	insertion	UNP Q5SHN3
CL	2	VAL	-	insertion	UNP Q5SHN3
CL	3	ALA	-	insertion	UNP Q5SHN3
CL	4	LEU	-	insertion	UNP Q5SHN3

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	115	Total	C	N	O	S	0	0	0
			921	569	190	160	2			
13	CM	115	Total	C	N	O	S	0	0	0
			921	569	190	160	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	60	Total 492	C 312	N 104	O 72	S 4	0	0	0
14	CN	60	Total 492	C 312	N 104	O 72	S 4	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AO	88	Total 734	C 459	N 147	O 126	S 2	0	0	0
15	CO	88	Total 734	C 459	N 147	O 126	S 2	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	84	Total 701	C 443	N 140	O 117	S 1	0	0	1
16	CP	84	Total 701	C 443	N 140	O 117	S 1	0	0	1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total 824	C 528	N 152	O 142	S 2	0	0	1
17	CQ	100	Total 824	C 528	N 152	O 142	S 2	0	0	1

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	70	Total 574	C 367	N 112	O 95	0	0	0
18	CR	70	Total 574	C 367	N 112	O 95	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total 630	C 403	N 115	O 110	S 2	0	0	1

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	CS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
20	CT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	25	Total	C	N	O	0	0	1
			209	128	51	30			
21	CU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	B0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			
22	D0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			

- Molecule 23 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	B1	89	Total	C	N	O	0	0	1
			693	435	140	118			
23	D1	89	Total	C	N	O	0	0	1
			693	435	140	118			

- Molecule 24 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	B2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			
24	D2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			

- Molecule 25 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			
25	D3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

- Molecule 26 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	B4	32	Total	C	N	O	0	0	0
			157	93	32	32			
26	D4	32	Total	C	N	O	0	0	0
			157	93	32	32			

- Molecule 27 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B5	59	Total	C	N	O	S	9	0	0
			459	288	90	76	5			
27	D5	59	Total	C	N	O	S	9	0	0
			459	288	90	76	5			

- Molecule 28 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			
28	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

- Molecule 29 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			
29	D7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 30 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			
30	D8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 31 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			
31	DA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			

- Molecule 32 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			
32	DB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

- Molecule 33 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			
33	DD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			

- Molecule 34 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			
34	DE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			

- Molecule 35 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BF	208	Total	C	N	O	S	0	0	1
			1624	1035	304	282	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	DF	208	Total	C	N	O	S	0	0	1
			1624	1035	304	282	3			

- Molecule 36 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			
36	DG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 37 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			
37	DH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			

- Molecule 38 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BI	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			
38	DI	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			

- Molecule 39 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			
39	DN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			

- Molecule 40 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			
40	DO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 41 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			
41	DP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 42 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			
42	DQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			

- Molecule 43 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	BR	117	Total	C	N	O	0	0	0
			960	599	202	159			
43	DR	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 44 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BS	99	Total	C	N	O	0	0	1
			771	486	155	130			
44	DS	99	Total	C	N	O	0	0	1
			771	486	155	130			

- Molecule 45 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			
45	DT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			

- Molecule 46 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			
46	DU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			

- Molecule 47 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
47	DV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 48 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			
48	DW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			

- Molecule 49 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	BX	93	Total	C	N	O	0	0	1
			726	471	132	123			
49	DX	93	Total	C	N	O	0	0	1
			726	471	132	123			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			
50	DY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			

- Molecule 51 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	DZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			

- Molecule 52 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
52	AA	51	Total	Mg	0	0
			51	51		
52	B0	1	Total	Mg	0	0
			1	1		
52	B1	1	Total	Mg	0	0
			1	1		
52	B5	2	Total	Mg	0	0
			2	2		
52	B7	1	Total	Mg	0	0
			1	1		
52	BA	349	Total	Mg	0	0
			349	349		
52	BB	5	Total	Mg	0	0
			5	5		
52	BD	1	Total	Mg	0	0
			1	1		
52	BE	1	Total	Mg	0	0
			1	1		
52	BF	1	Total	Mg	0	0
			1	1		
52	BP	3	Total	Mg	0	0
			3	3		
52	BQ	2	Total	Mg	0	0
			2	2		
52	BR	1	Total	Mg	0	0
			1	1		
52	BU	1	Total	Mg	0	0
			1	1		
52	BX	1	Total	Mg	0	0
			1	1		
52	CA	48	Total	Mg	0	0
			48	48		
52	D0	1	Total	Mg	0	0
			1	1		
52	D1	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
52	D5	2	Total Mg 2 2	0	0
52	D7	1	Total Mg 1 1	0	0
52	DA	309	Total Mg 309 309	0	0
52	DB	3	Total Mg 3 3	0	0
52	DD	1	Total Mg 1 1	0	0
52	DE	1	Total Mg 1 1	0	0
52	DF	1	Total Mg 1 1	0	0
52	DP	1	Total Mg 1 1	0	0
52	DQ	1	Total Mg 1 1	0	0
52	DR	1	Total Mg 1 1	0	0
52	DU	1	Total Mg 1 1	0	0
52	DX	1	Total Mg 1 1	0	0

- Molecule 53 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	AD	1	Total Zn 1 1	0	0
53	AN	1	Total Zn 1 1	0	0
53	CD	1	Total Zn 1 1	0	0
53	CN	1	Total Zn 1 1	0	0

- Molecule 54 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	BA	1	Total K 1 1	0	0

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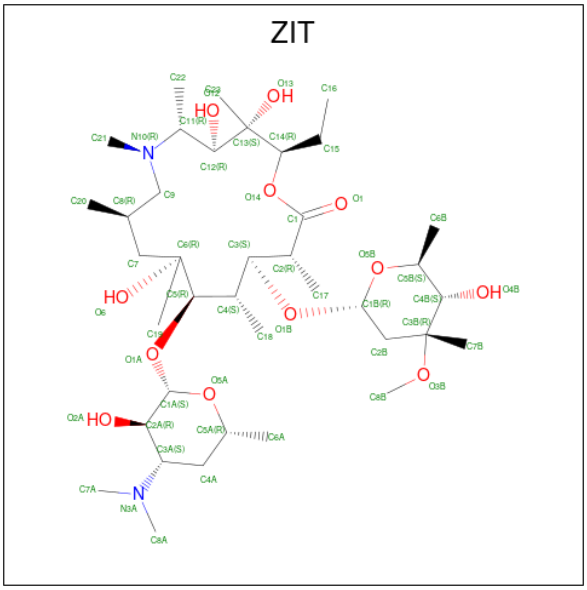
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	DA	1	Total K 1 1	0	0

- Molecule 55 is AZITHROMYCIN (three-letter code: ZIT) (formula: $C_{38}H_{72}N_2O_{12}$).



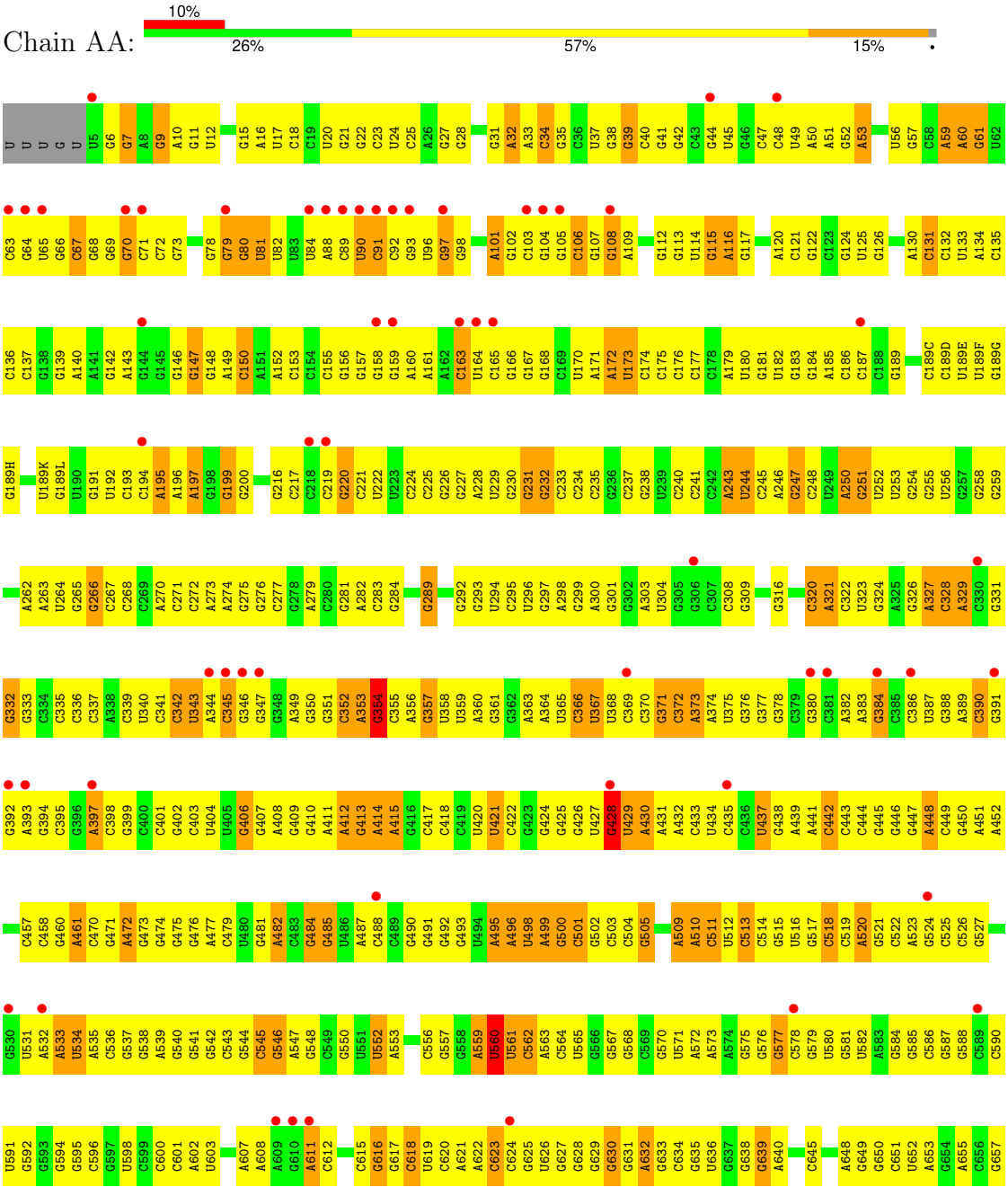
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	BA	1	Total C N O 52 38 2 12	0	0
55	DA	1	Total C N O 52 38 2 12	0	0

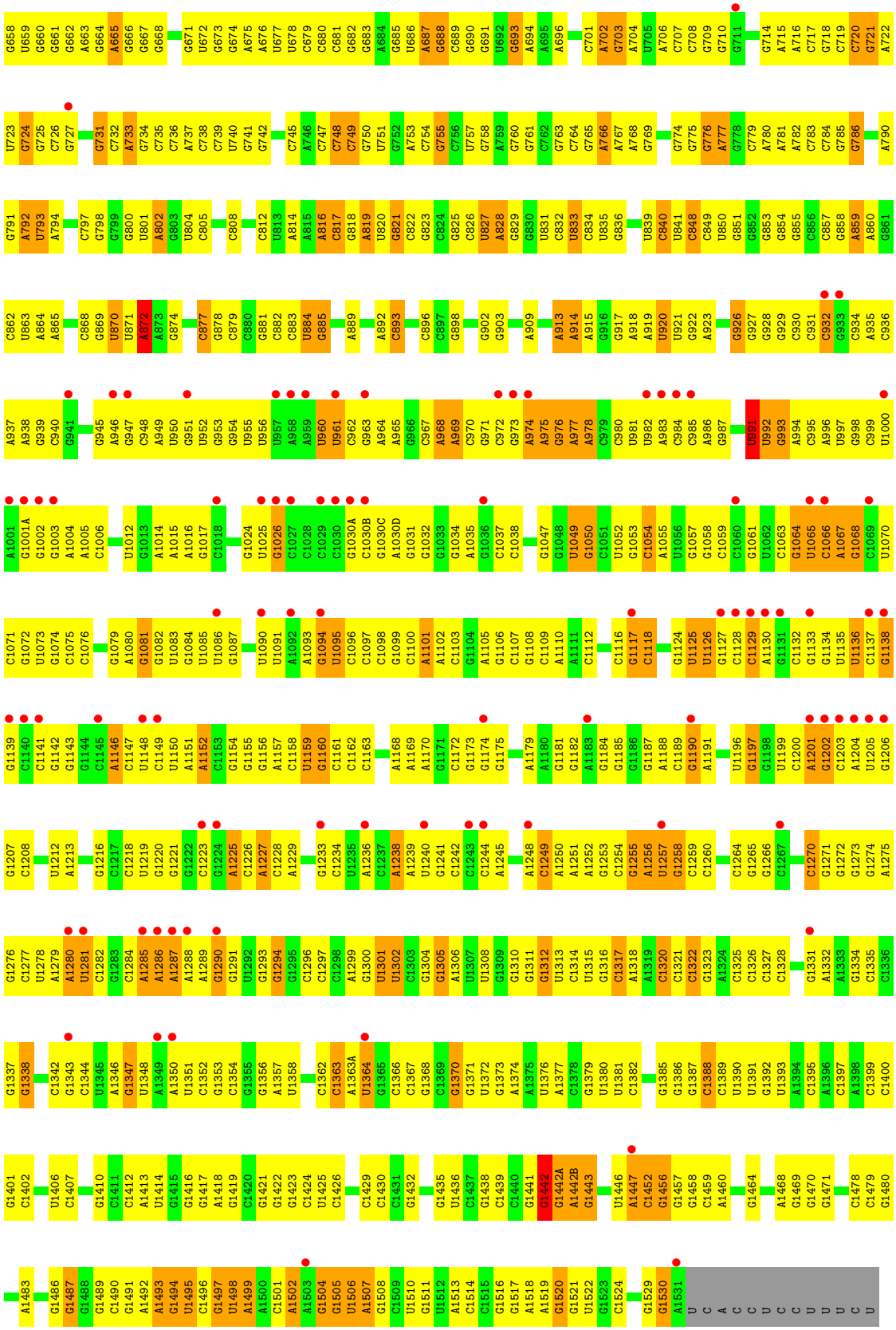
3 Residue-property plots (i)

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

- Molecule 1: 16S rRNA

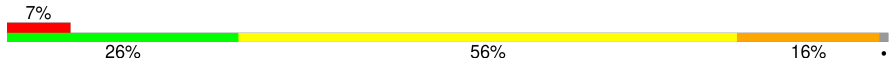
Chain AA:

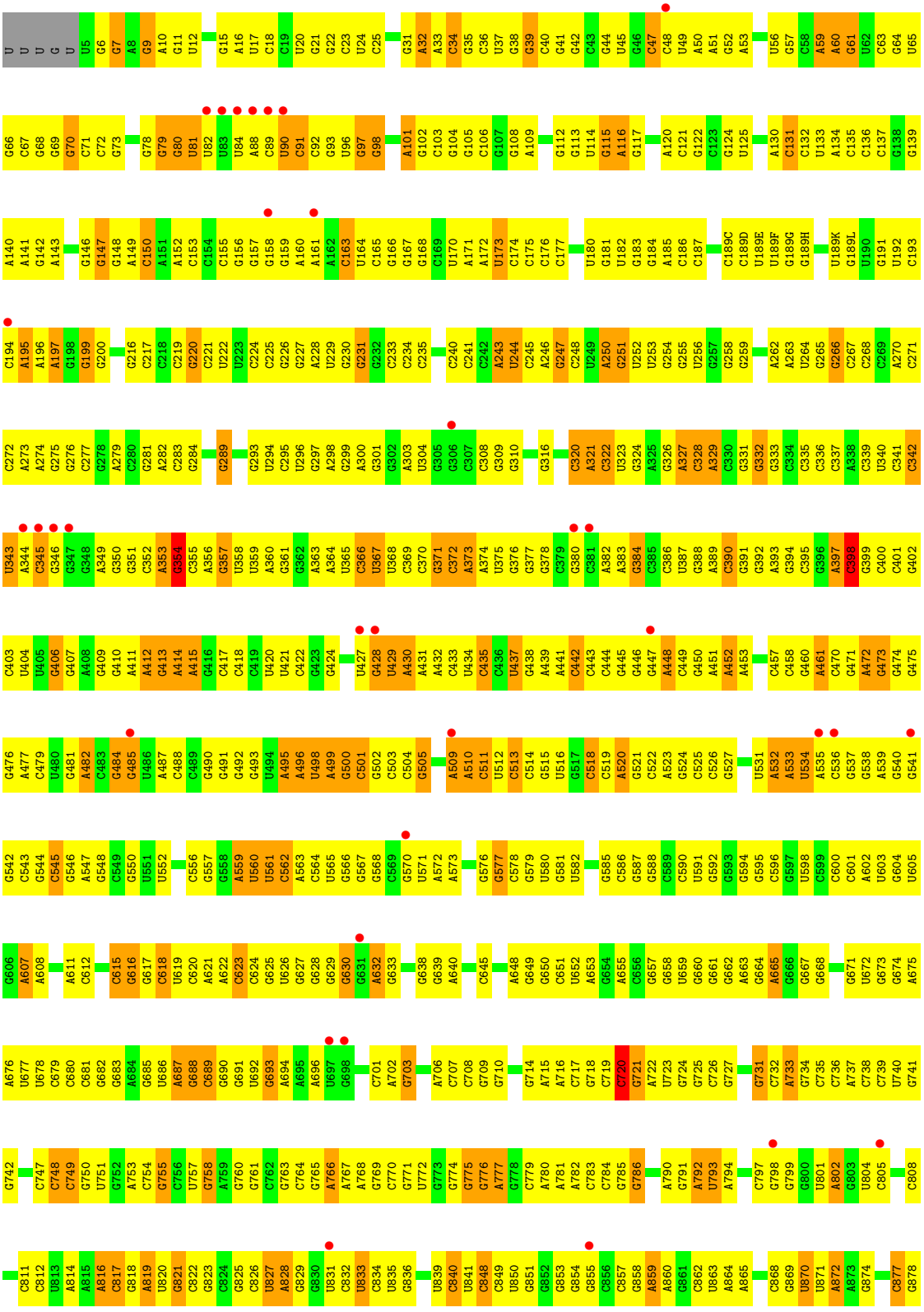


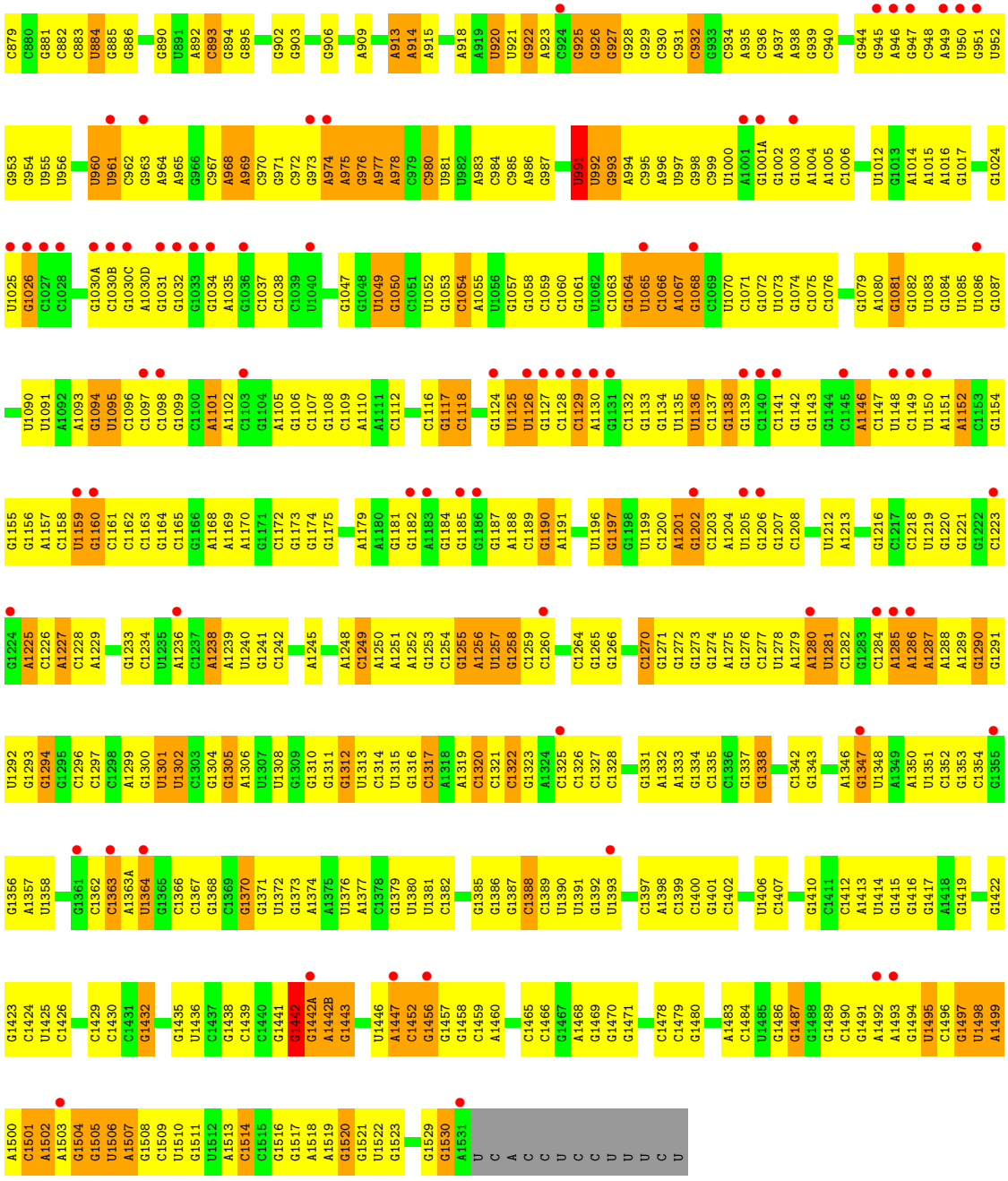


• Molecule 1: 16S rRNA

Chain CA:

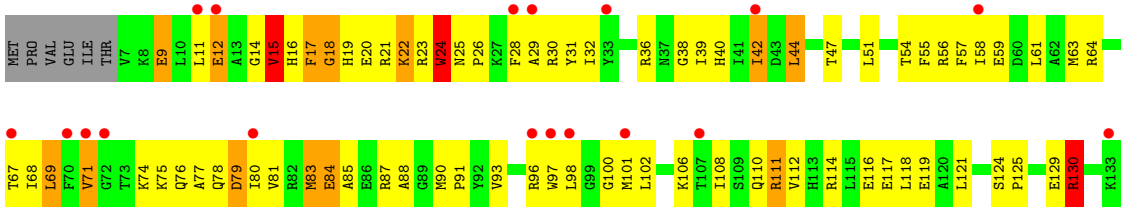

7%
26%
56%
16%

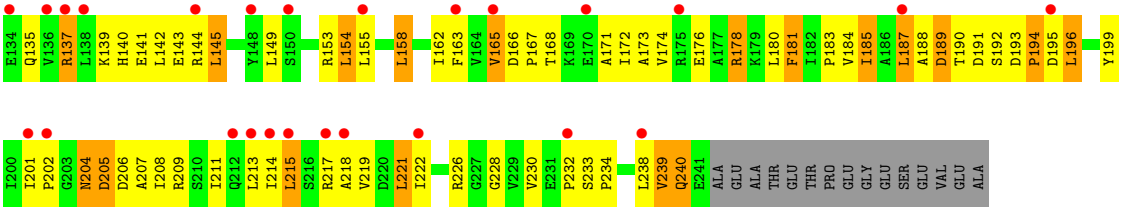

U U U G U U5 G6 G7 A8 G9 A10 G11 U12 G15 A16 U17 C18 C19 U20 G21 G22 C23 U24 C25 G31 A32 A33 C34 G35 C36 U37 G38 G39 C40 G41 G42 C43 G44 U45 G46 C47 C48 U49 A50 A51 G52 A53 U56 G57 C58 A59 A60 G61 U62 C63 G64 U65
G66 C67 G68 G69 G70 C71 C72 G73 G78 G79 G80 U81 U82 U83 U84 A88 C89 U90 C91 C92 G93 U96 G97 G98 A101 G102 C103 G104 G105 C106 G107 G108 A109 G112 G113 U114 G115 A116 G117 A120 C121 G122 C123 G124 U125 A130 C131 C132 U133 A134 C135 C136 C137 G138 G139
A140 A141 G142 A143 G146 G147 G148 A149 C150 A151 A152 C153 C154 C155 G156 G157 G158 G159 A160 A161 A162 C163 U164 C165 G166 G167 G168 C169 U170 A171 A172 U173 C174 C175 C176 C177 U180 G181 U182 G183 G184 A185 C186 C187 C189C C189D U189E U189F G189G G189H U189K G189L U190 G191 U192 C193
C194 A195 A196 A197 G198 G199 G200 G216 C217 C218 C219 G220 C221 U222 U223 C224 C225 G226 G227 A228 U229 G230 G231 G232 C233 C234 C235 C240 C241 C242 A243 U244 C245 A246 G247 C248 U249 A250 G251 U252 U253 G254 G255 U256 G257 G258 C259 A262 A263 U264 C265 G266 C267 C268 C269 A270 C271
C272 A273 A274 G275 G276 C277 G278 A279 C280 G281 A282 C283 G284 G289 G293 U294 C295 U296 G297 A298 U299 A300 G301 G302 A303 U304 G305 G306 C307 C308 G309 G310 G316 C320 A321 C322 U323 G324 A325 G326 A327 C328 A329 C330 G331 G332 G333 C334 C335 C336 C337 A338 C339 U340 C341 C342
U343 A344 C345 G346 G347 G348 A349 G350 G351 C352 A353 G354 C355 A356 G357 U358 U359 A360 G361 G362 A363 A364 U365 C366 U367 U368 C369 C370 G371 C372 A373 A374 U375 G376 G377 G378 C379 G380 C381 A382 A383 G384 C385 C386 U387 G388 A389 C390 G391 G392 A393 G394 C395 G396 A397 C398 G399 C400 C401 G402
C403 U404 U405 G406 G407 A408 G409 G410 A411 A412 G413 A414 A415 G416 C417 C418 C419 U420 U421 C422 G423 G424 U427 G428 U429 A430 A431 A432 C433 U434 C435 C436 U437 G438 A439 A441 C442 C443 C444 G445 G446 G447 A448 C449 G450 A451 A452 A453 C457 C458 G460 A461 C470 G471 A472 G473 G474 G475
G476 A477 C479 U480 G481 A482 C483 G484 G485 U486 A487 C488 C489 G490 G491 G492 G493 U494 A495 A496 U498 A499 G500 C501 G502 C503 C504 G505 A509 A510 C511 U512 C513 C514 G515 U516 G517 C518 C519 A520 G521 C522 A523 G524 C525 C526 G527 U531 A532 A533 U534 A535 C536 G537 G538 A539 G540 G541
G542 C543 G544 C545 G546 A547 G548 C549 G550 U551 U552 C556 G557 G558 A559 U560 U561 C562 A563 C564 U565 G566 G567 G568 C569 G570 U571 A572 A573 G576 G577 C578 G579 U580 G581 U582 G585 C586 G587 G588 C589 C590 U591 G592 G593 G594 G595 C596 G597 U598 C599 C600 C601 A602 U603 G604 U605
G606 A607 A608 A611 C612 C615 G616 G617 C618 U619 C620 A621 A622 C623 C624 G625 U626 G627 G628 G629 G630 G631 A632 G633 G638 G639 A640 C645 A648 G649 G650 C651 U652 A653 G654 A655 C656 G657 G658 U659 G660 G661 G662 A663 G664 A665 G666 G667 G668 G671 U672 G673 G674 A675
A676 U677 U678 C679 C680 C681 G682 G683 A684 G685 U686 A687 G688 C689 G690 G691 U692 G693 A694 A695 A696 U697 G698 C701 A702 G703 A706 C707 C708 G709 G710 G714 A715 A716 C717 G718 C719 C720 G721 A722 U723 G724 G725 C726 G727 G731 C732 A733 G734 C735 C736 A737 C738 C739 U740 G741
G742 C747 C748 C749 G750 U751 G752 A753 C754 G755 C756 U757 G758 A759 G760 G761 C762 G763 C764 G765 A766 A767 A768 G769 C770 G771 U772 G773 G774 G775 G776 A777 G778 C779 A780 A781 A782 C783 C784 G785 G786 A790 G791 A792 U793 A794 C797 G798 G799 G800 U801 A802 G803 U804 C805 C808
C811 C812 U813 A814 A815 A816 C817 G818 A819 U820 G821 C822 G823 C824 G825 C826 U827 A828 G829 G830 U831 C832 U833 C834 U835 G836 U839 C840 U841 C848 C849 U850 G851 G852 G853 G854 G855 C856 C857 G858 A859 A860 G861 C862 U863 A864 A865 C868 G869 U870 U871 A872 A873 G874 C877 G878



• Molecule 2: 30S ribosomal protein S2

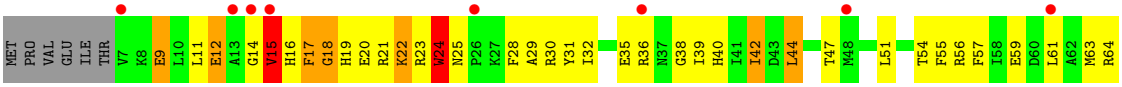
Chain AB:

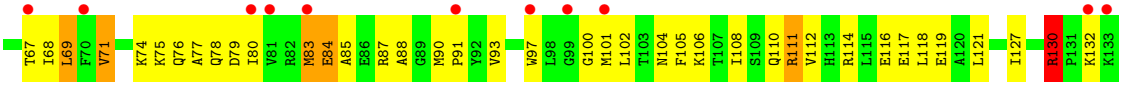


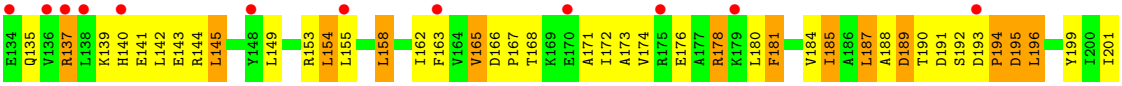


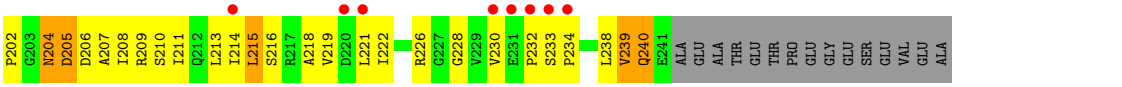
• Molecule 2: 30S ribosomal protein S2

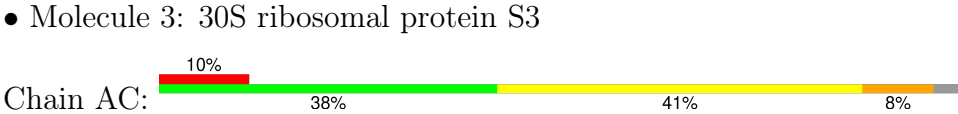
Chain CB:





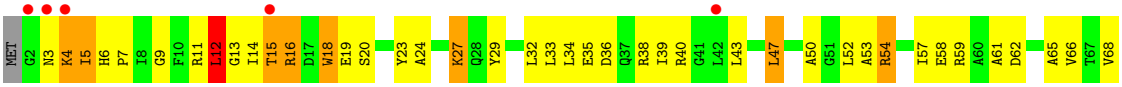


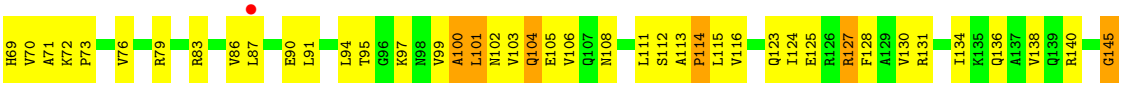


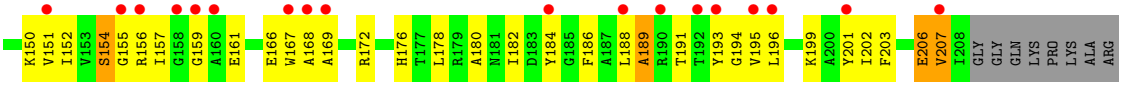


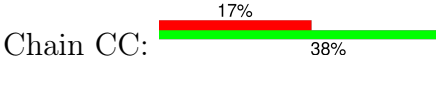
• Molecule 3: 30S ribosomal protein S3

Chain AC:



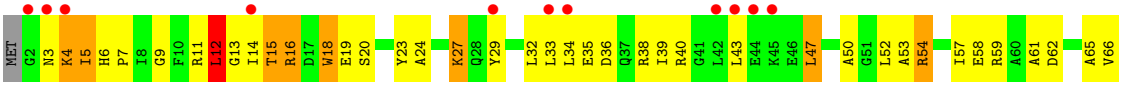


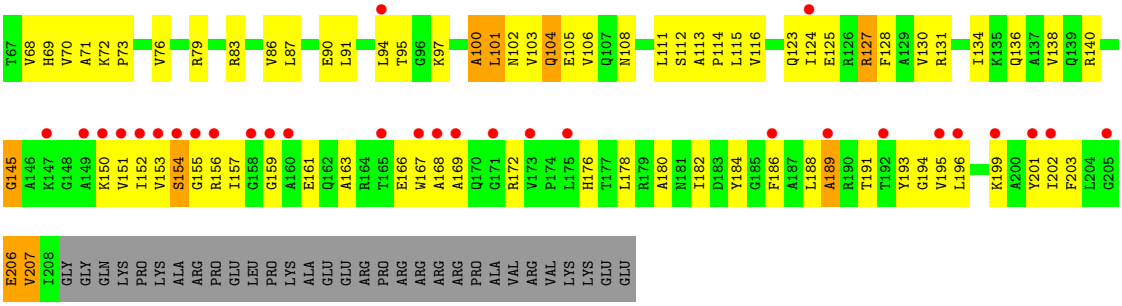




• Molecule 3: 30S ribosomal protein S3

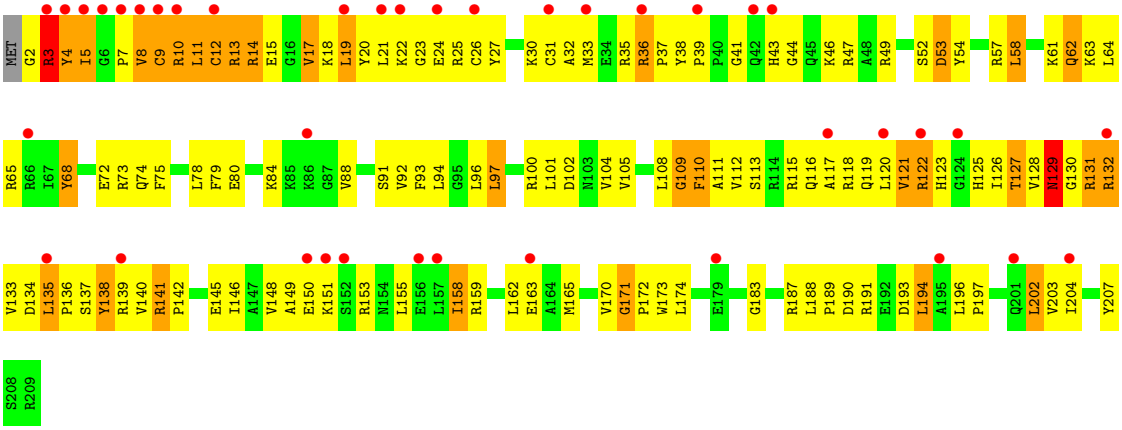
Chain CC:





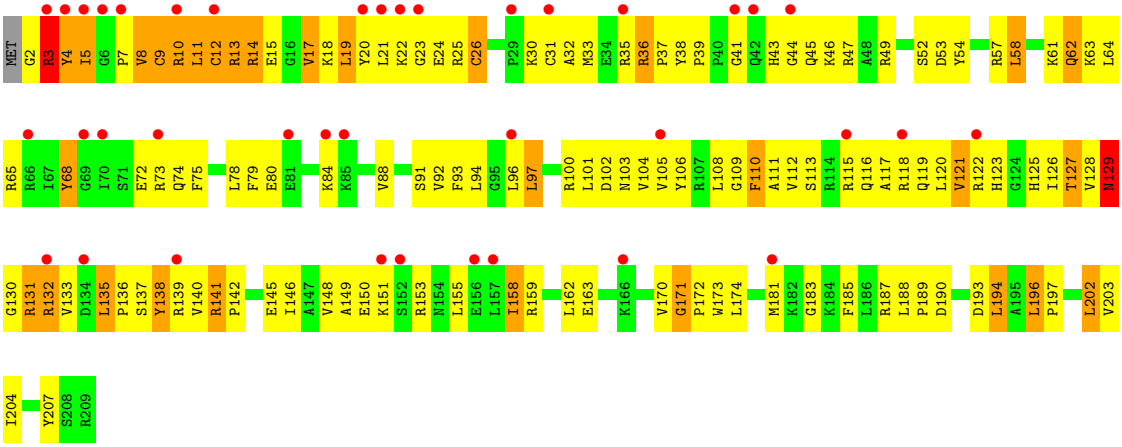
• Molecule 4: 30S ribosomal protein S4

Chain AD:



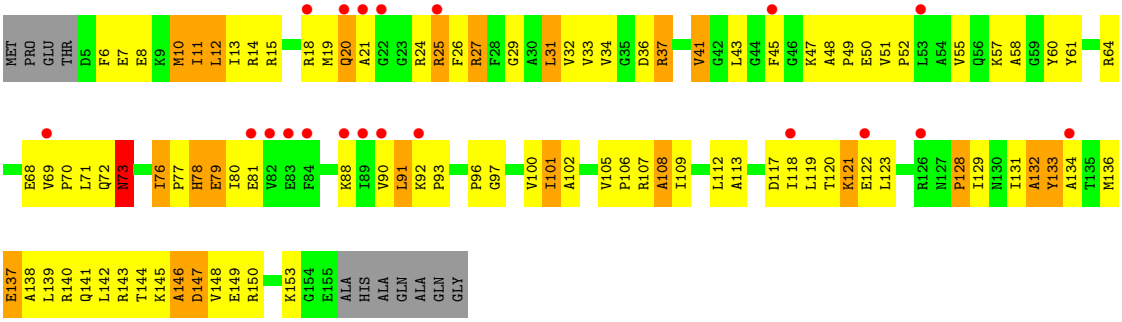
• Molecule 4: 30S ribosomal protein S4

Chain CD:



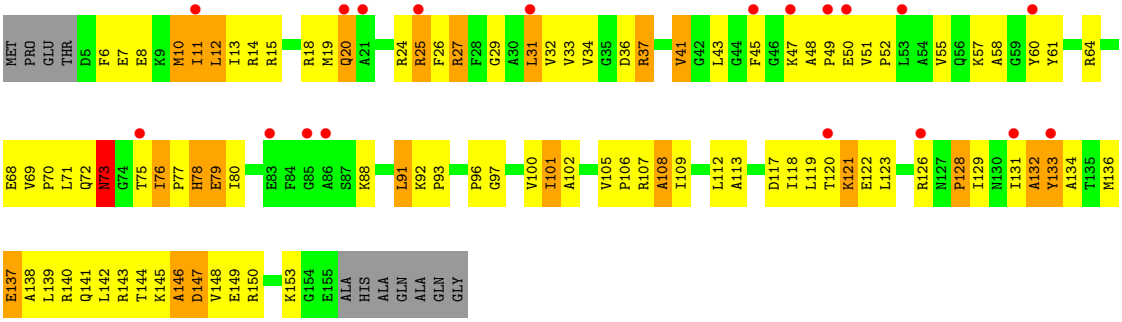
• Molecule 5: 30S ribosomal protein S5

Chain AE:



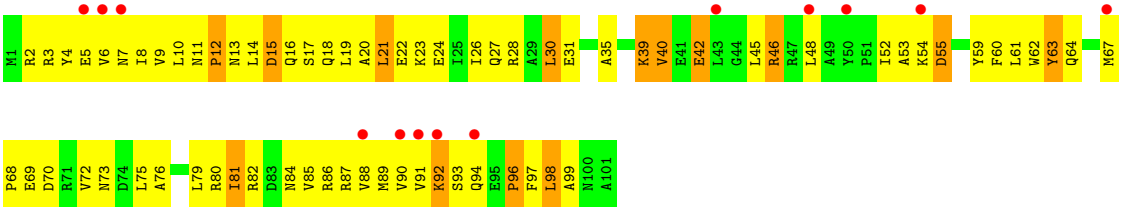
• Molecule 5: 30S ribosomal protein S5

Chain CE:



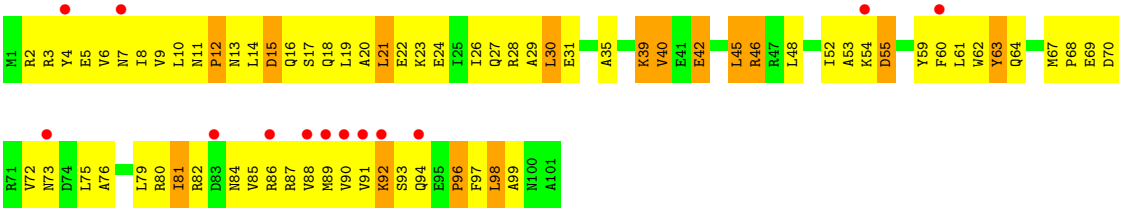
• Molecule 6: 30S ribosomal protein S6

Chain AF:



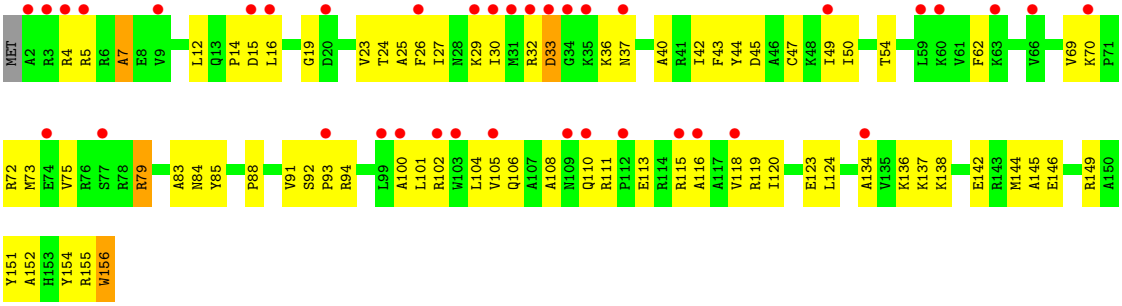
• Molecule 6: 30S ribosomal protein S6

Chain CF:

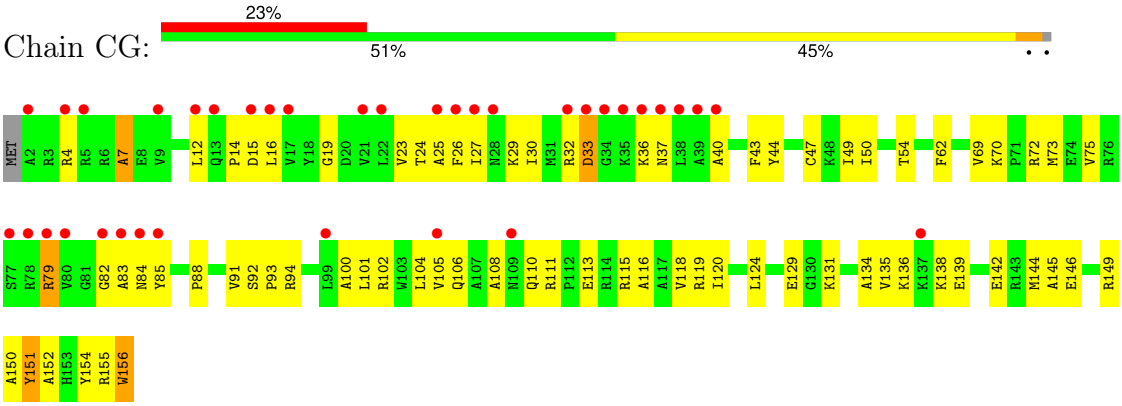


• Molecule 7: 30S ribosomal protein S7

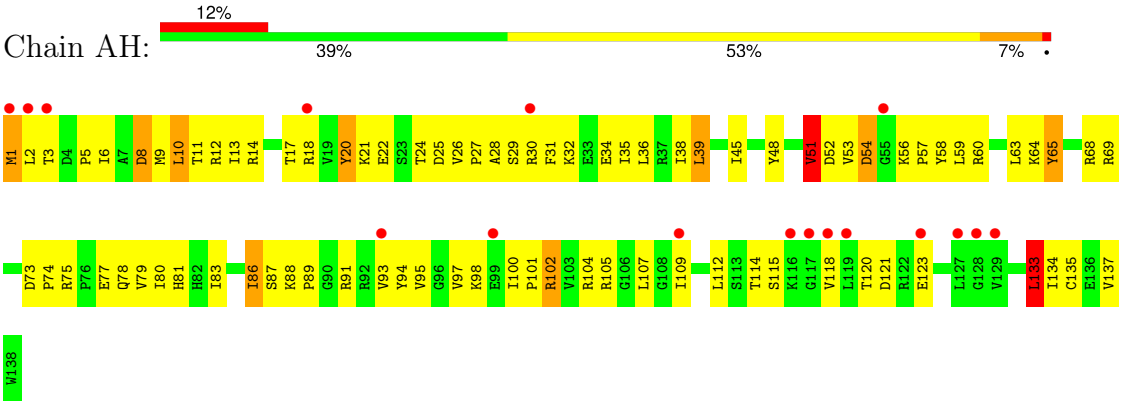
Chain AG:



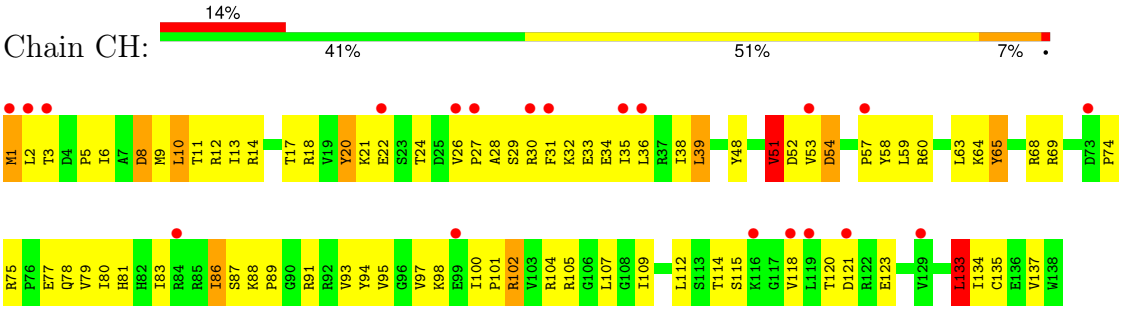
• Molecule 7: 30S ribosomal protein S7



• Molecule 8: 30S ribosomal protein S8

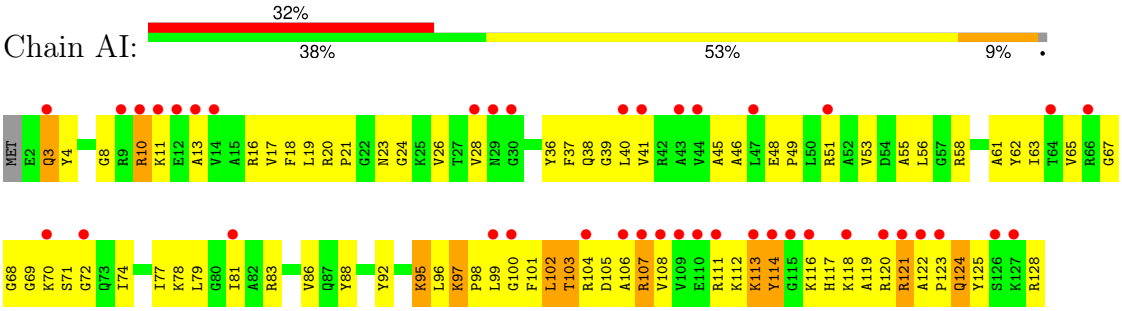


• Molecule 8: 30S ribosomal protein S8



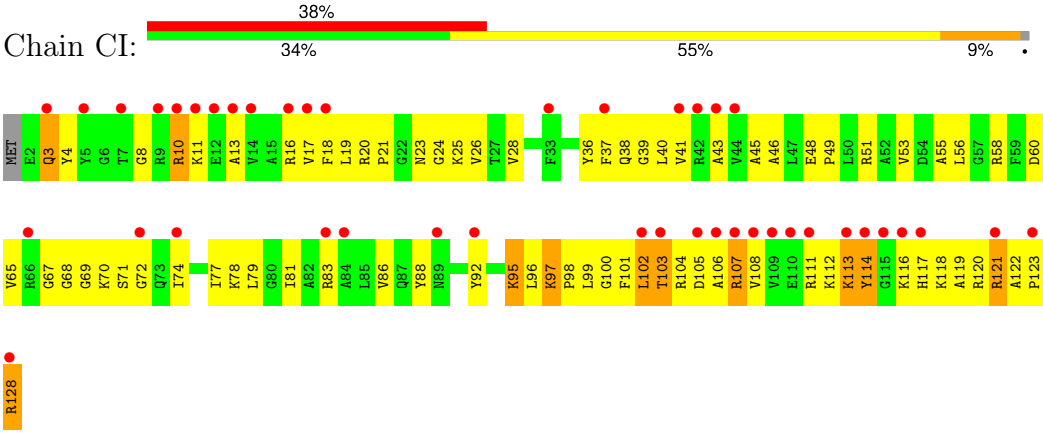
• Molecule 9: 30S ribosomal protein S9

Chain AI:



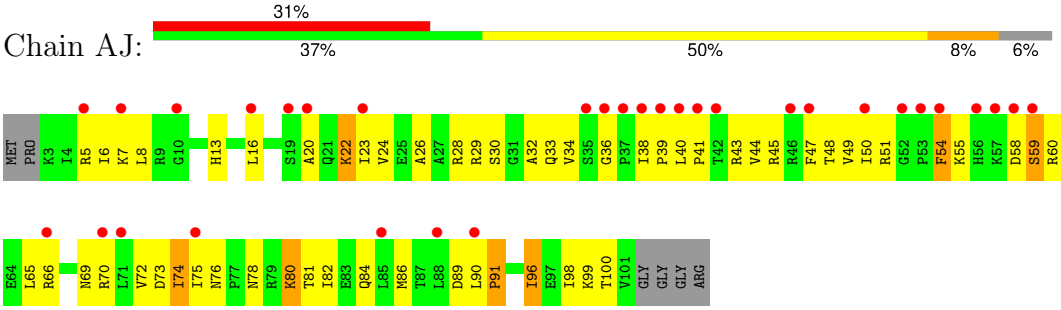
• Molecule 9: 30S ribosomal protein S9

Chain CI:



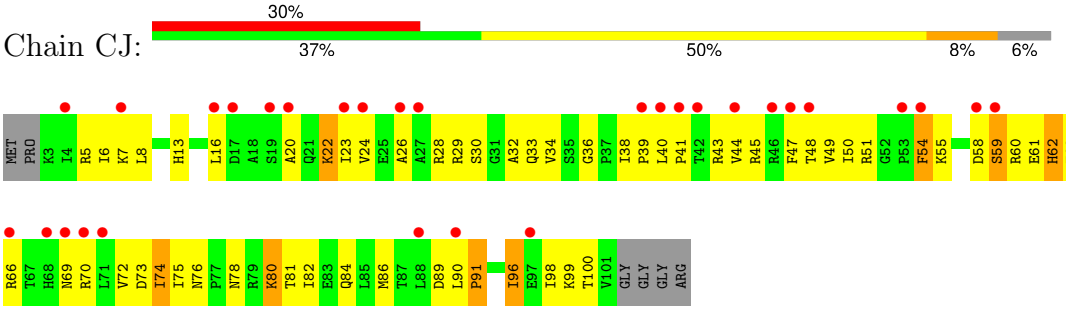
• Molecule 10: 30S ribosomal protein S10

Chain AJ:



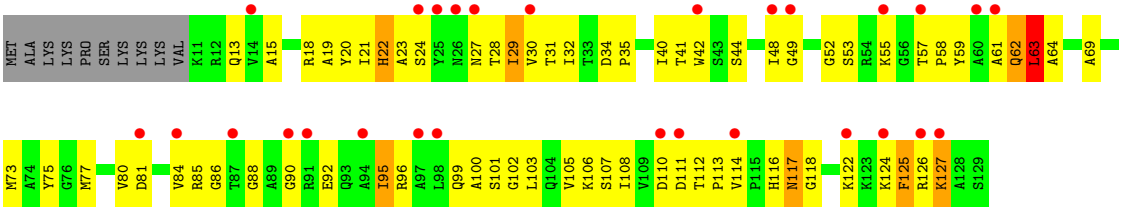
• Molecule 10: 30S ribosomal protein S10

Chain CJ:



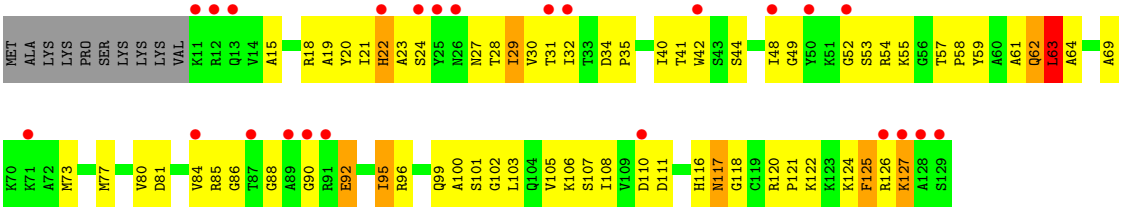
• Molecule 11: 30S ribosomal protein S11

Chain AK:



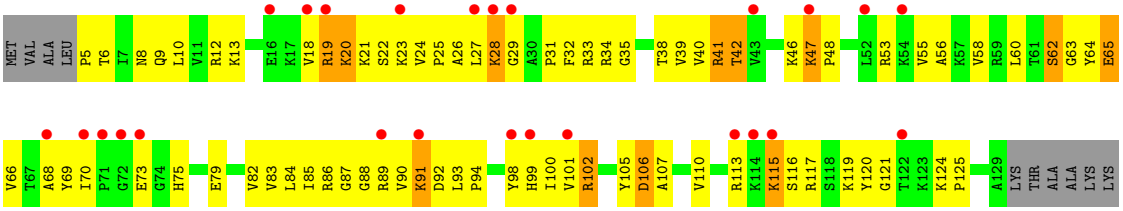
• Molecule 11: 30S ribosomal protein S11

Chain CK:



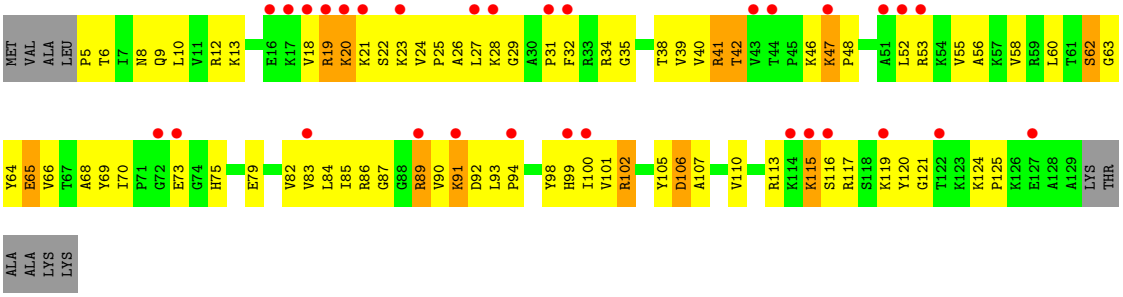
• Molecule 12: 30S ribosomal protein S12

Chain AL:



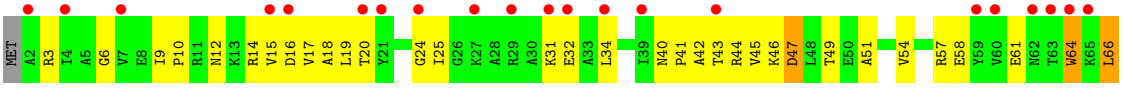
• Molecule 12: 30S ribosomal protein S12

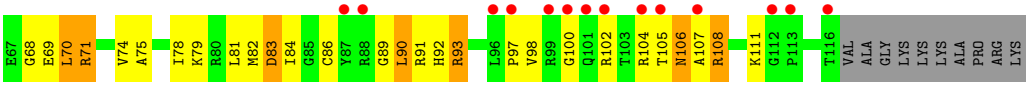
Chain CL:



• Molecule 13: 30S ribosomal protein S13

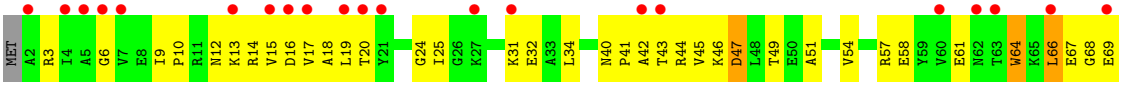
Chain AM:

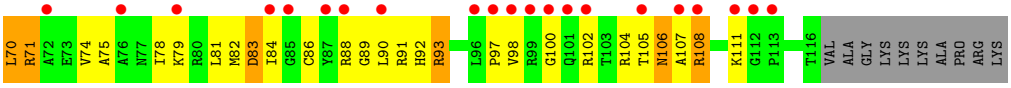




• Molecule 13: 30S ribosomal protein S13

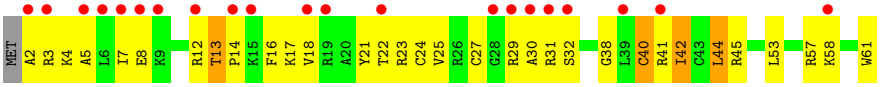
Chain CM:





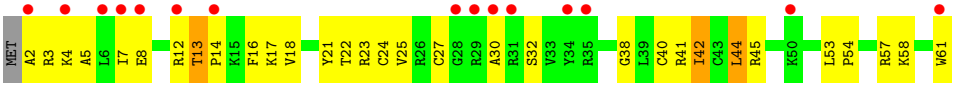
• Molecule 14: 30S ribosomal protein S14

Chain AN:



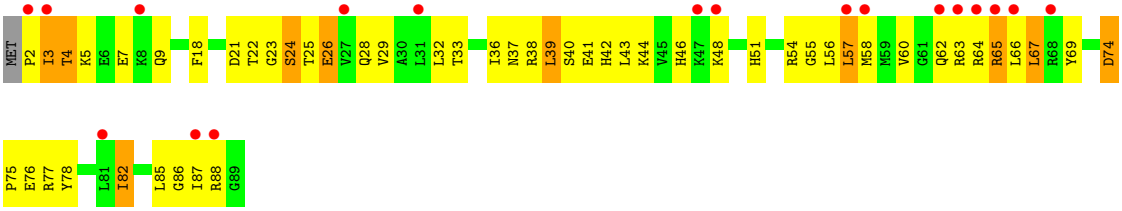
• Molecule 14: 30S ribosomal protein S14

Chain CN:



• Molecule 15: 30S ribosomal protein S15

Chain AO:



• Molecule 15: 30S ribosomal protein S15

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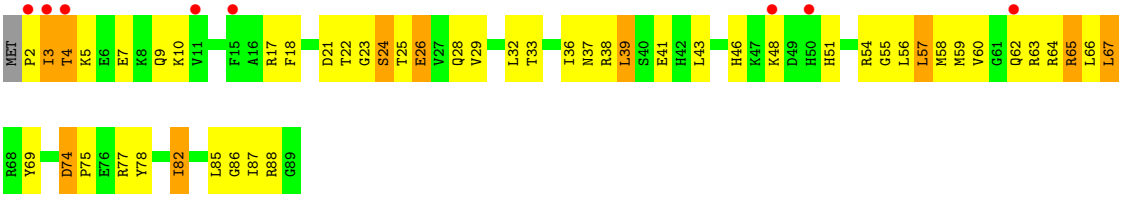
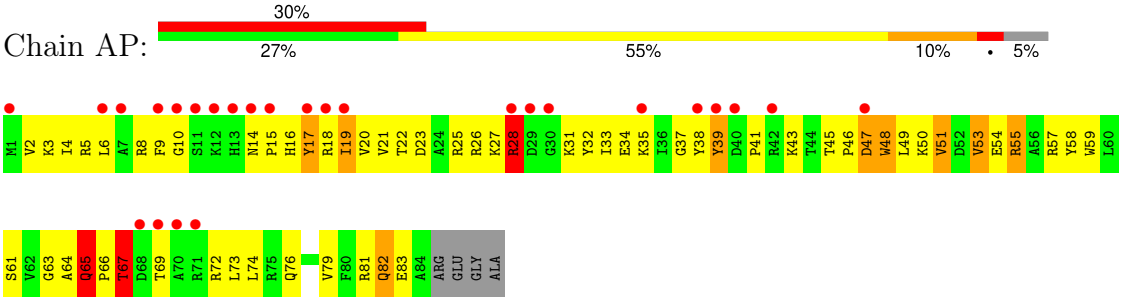


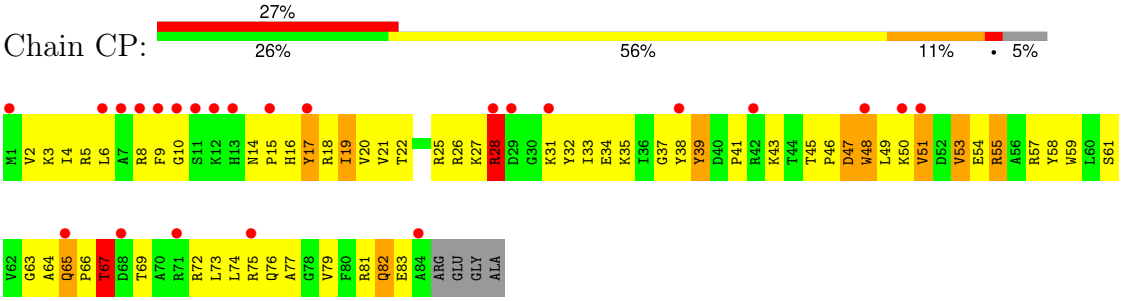
• Molecule 16: 30S ribosomal protein S16

Chain AP:



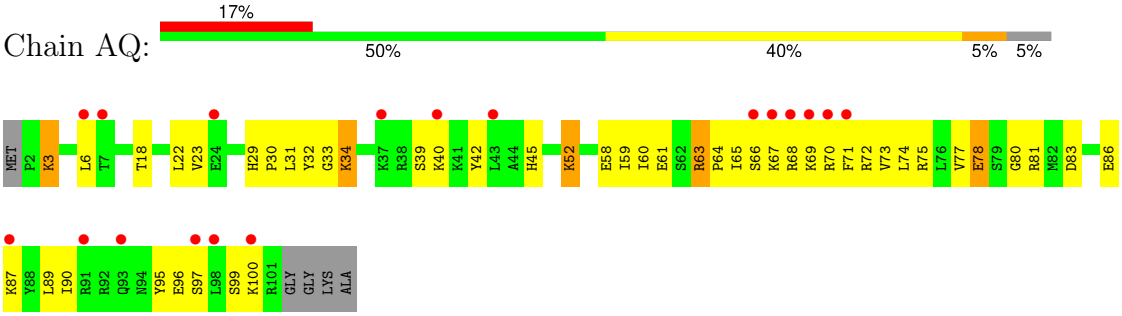
• Molecule 16: 30S ribosomal protein S16

Chain CP:



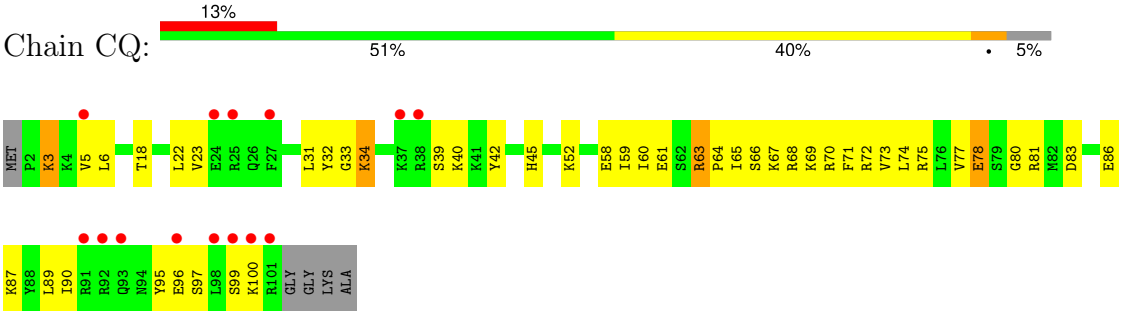
• Molecule 17: 30S ribosomal protein S17

Chain AQ:



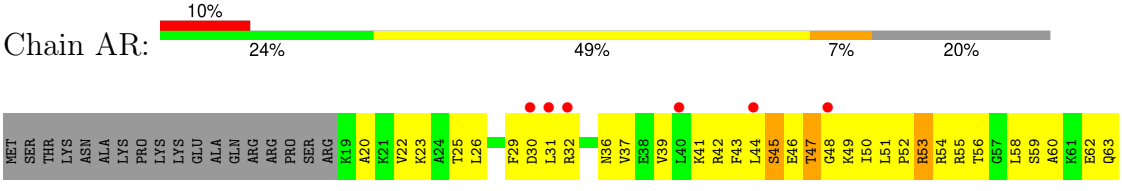
• Molecule 17: 30S ribosomal protein S17

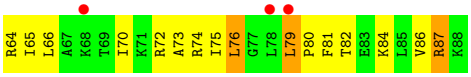
Chain CQ:



• Molecule 18: 30S ribosomal protein S18

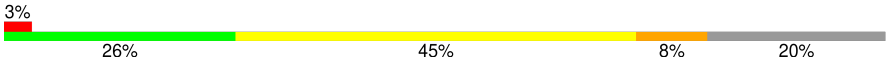
Chain AR:

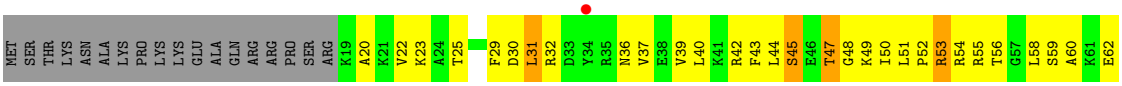




• Molecule 18: 30S ribosomal protein S18

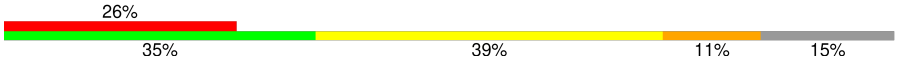
Chain CR:

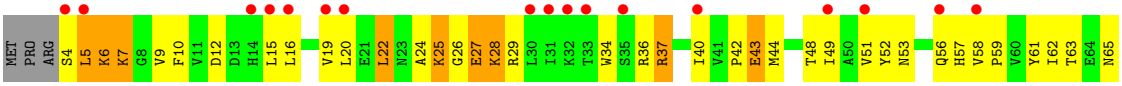


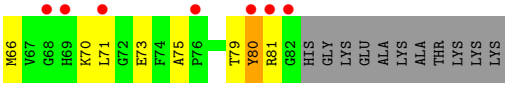


• Molecule 19: 30S ribosomal protein S19

Chain AS:

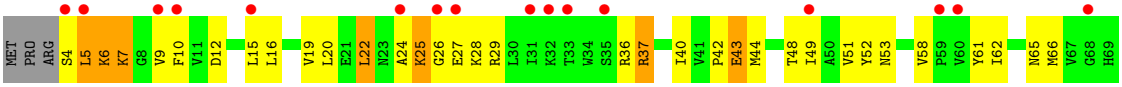


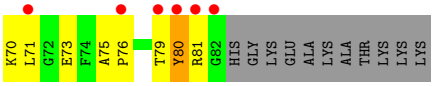




• Molecule 19: 30S ribosomal protein S19

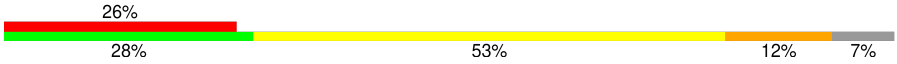
Chain CS:

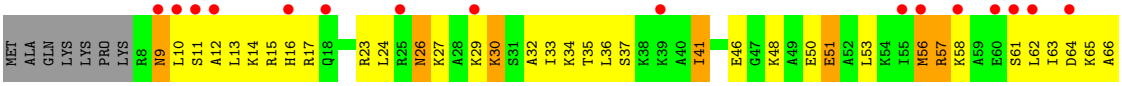


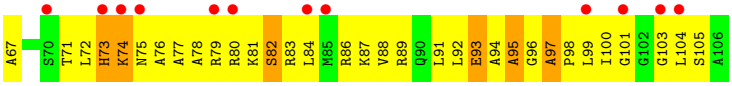


• Molecule 20: 30S ribosomal protein S20

Chain AT:

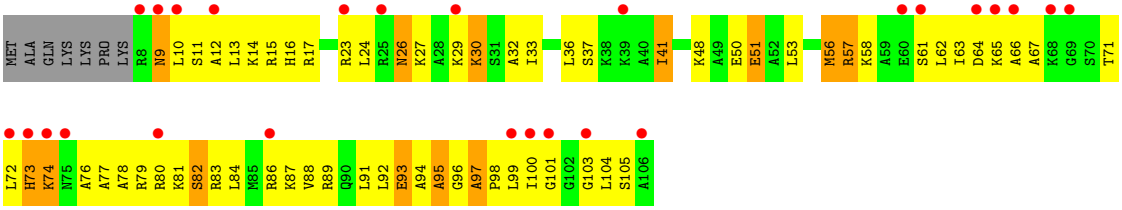






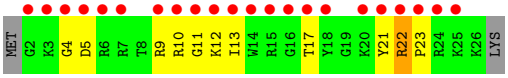
• Molecule 20: 30S ribosomal protein S20

Chain CT:



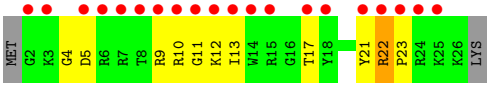
• Molecule 21: 30S ribosomal protein Thx

Chain AU:



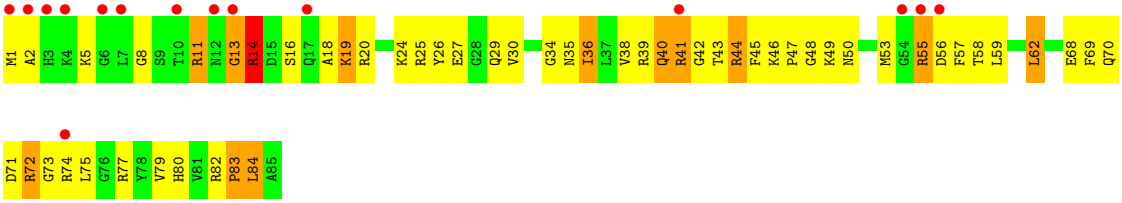
• Molecule 21: 30S ribosomal protein Thx

Chain CU:



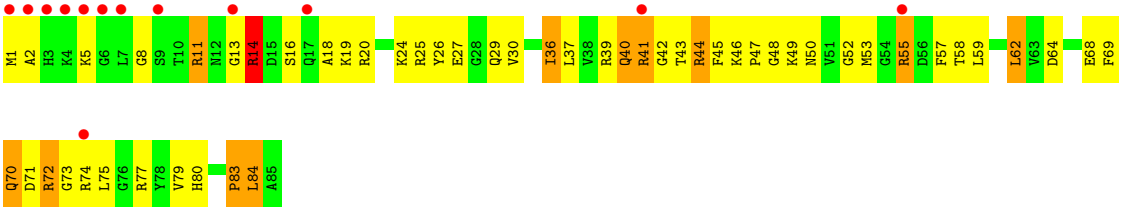
• Molecule 22: 50S ribosomal protein L27

Chain B0:



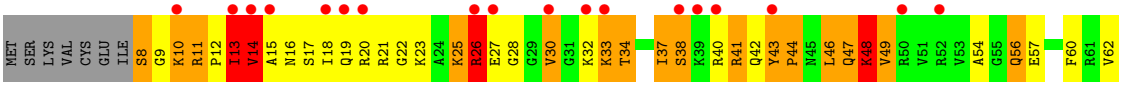
• Molecule 22: 50S ribosomal protein L27

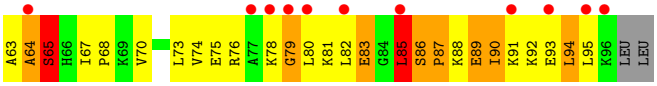
Chain D0:



• Molecule 23: 50S ribosomal protein L28

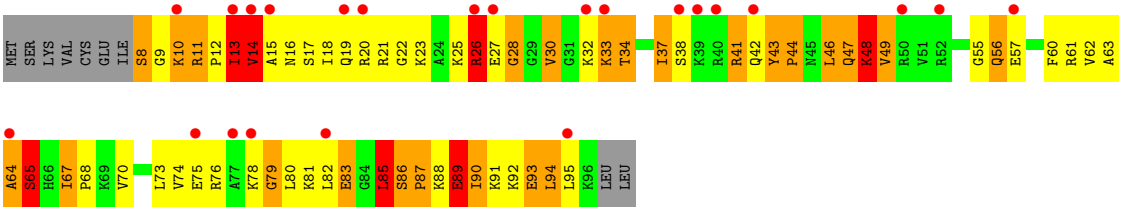
Chain B1:





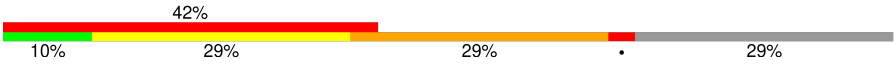
• Molecule 23: 50S ribosomal protein L28

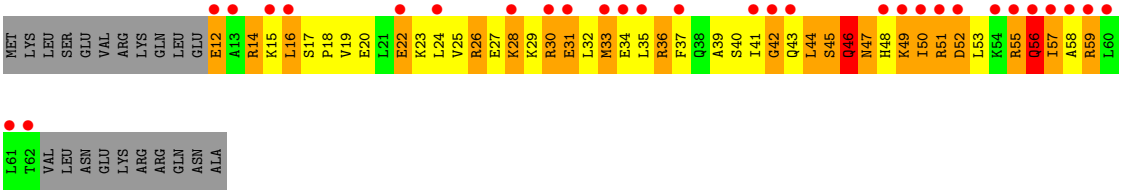
Chain D1:



• Molecule 24: 50S ribosomal protein L29

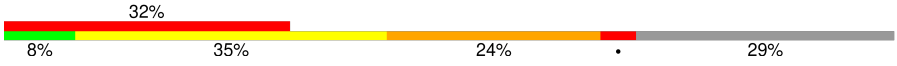
Chain B2:

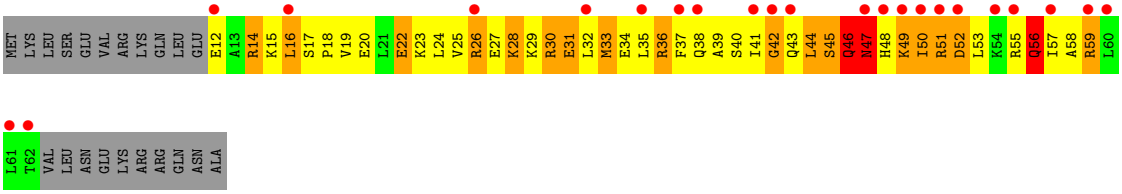




• Molecule 24: 50S ribosomal protein L29

Chain D2:



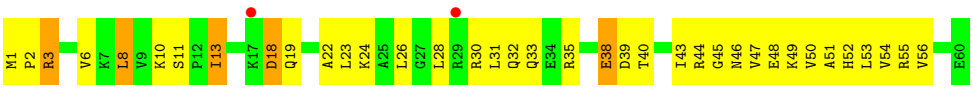


• Molecule 25: 50S ribosomal protein L30

Chain B3:

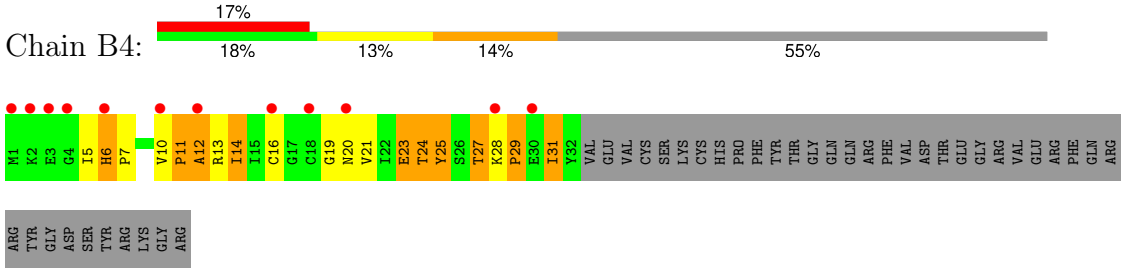
• Molecule 25: 50S ribosomal protein L30

Chain D3:



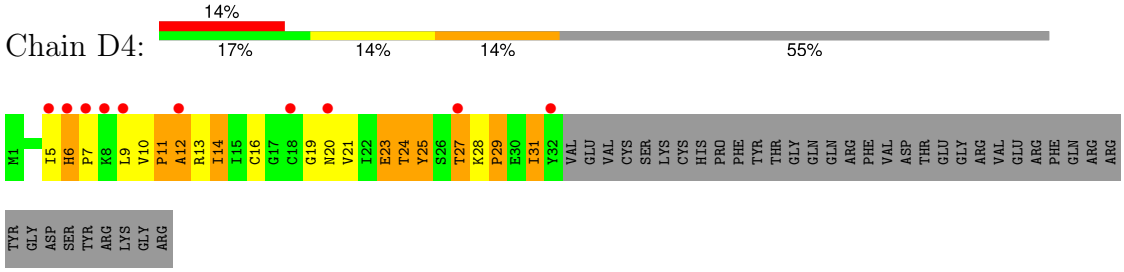
• Molecule 26: 50S ribosomal protein L31

Chain B4:



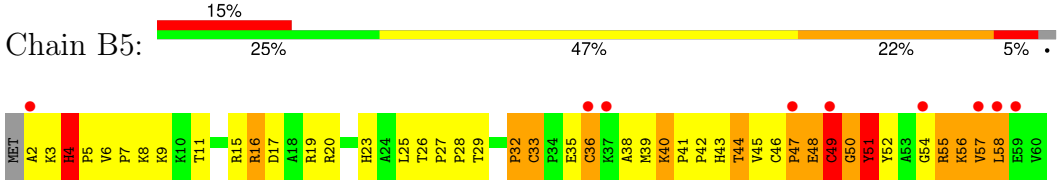
• Molecule 26: 50S ribosomal protein L31

Chain D4:



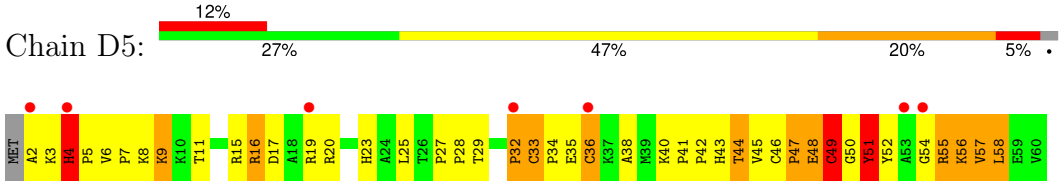
• Molecule 27: 50S ribosomal protein L32

Chain B5:



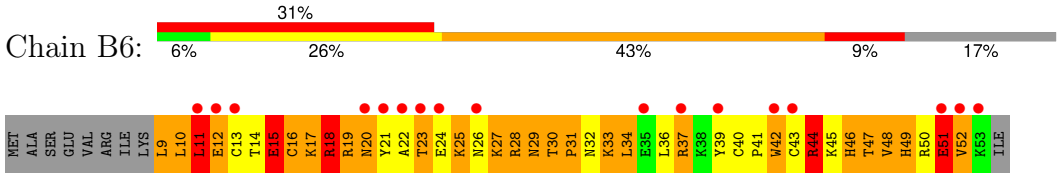
• Molecule 27: 50S ribosomal protein L32

Chain D5:



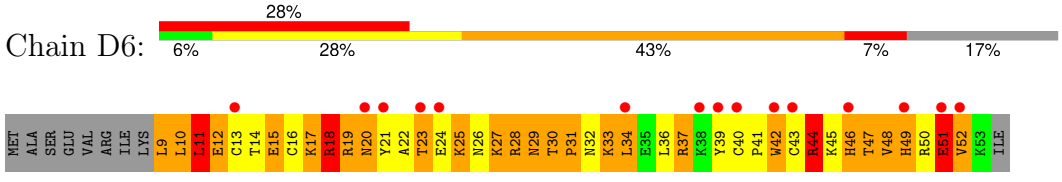
• Molecule 28: 50S ribosomal protein L33

Chain B6:



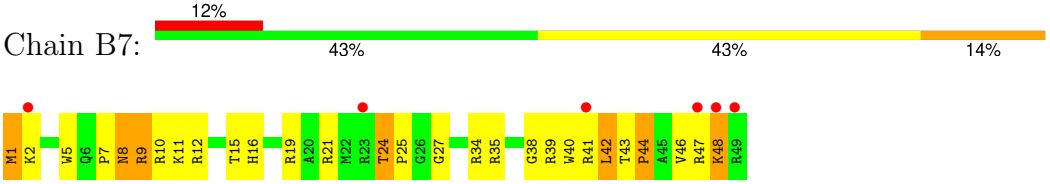
• Molecule 28: 50S ribosomal protein L33

Chain D6:



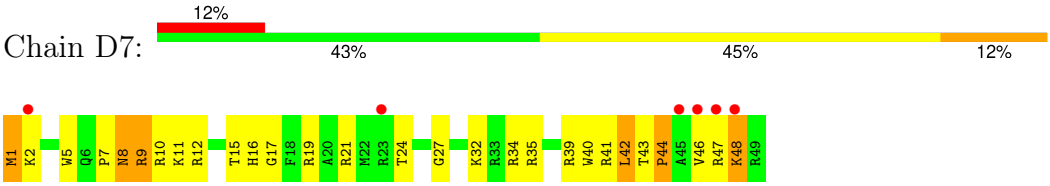
• Molecule 29: 50S ribosomal protein L34

Chain B7:



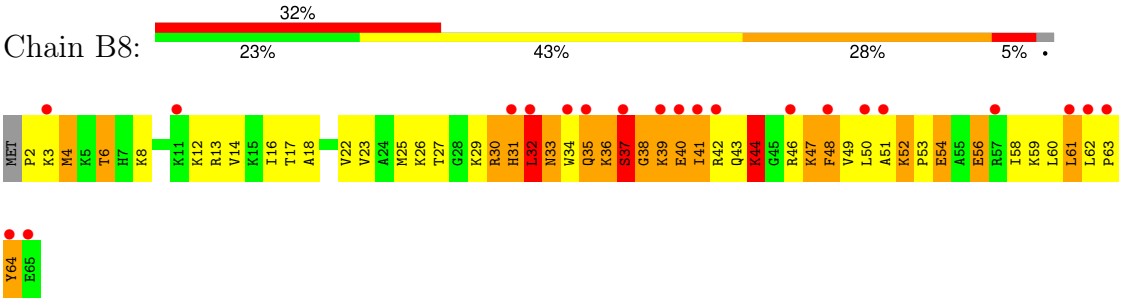
• Molecule 29: 50S ribosomal protein L34

Chain D7:



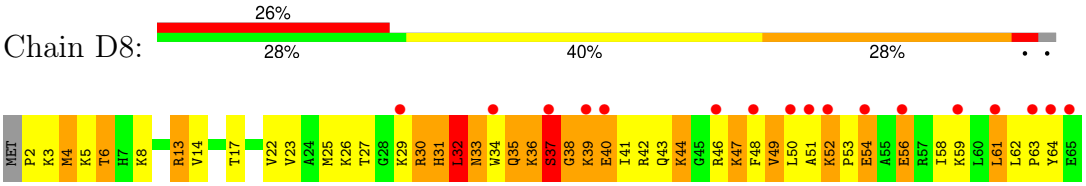
• Molecule 30: 50S ribosomal protein L35

Chain B8:



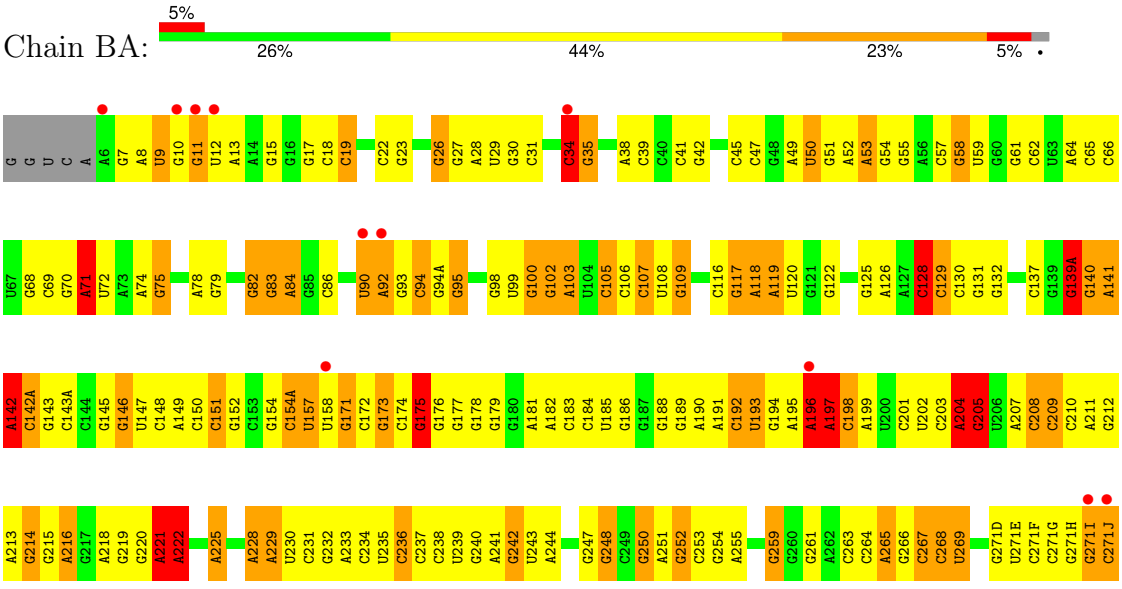
• Molecule 30: 50S ribosomal protein L35

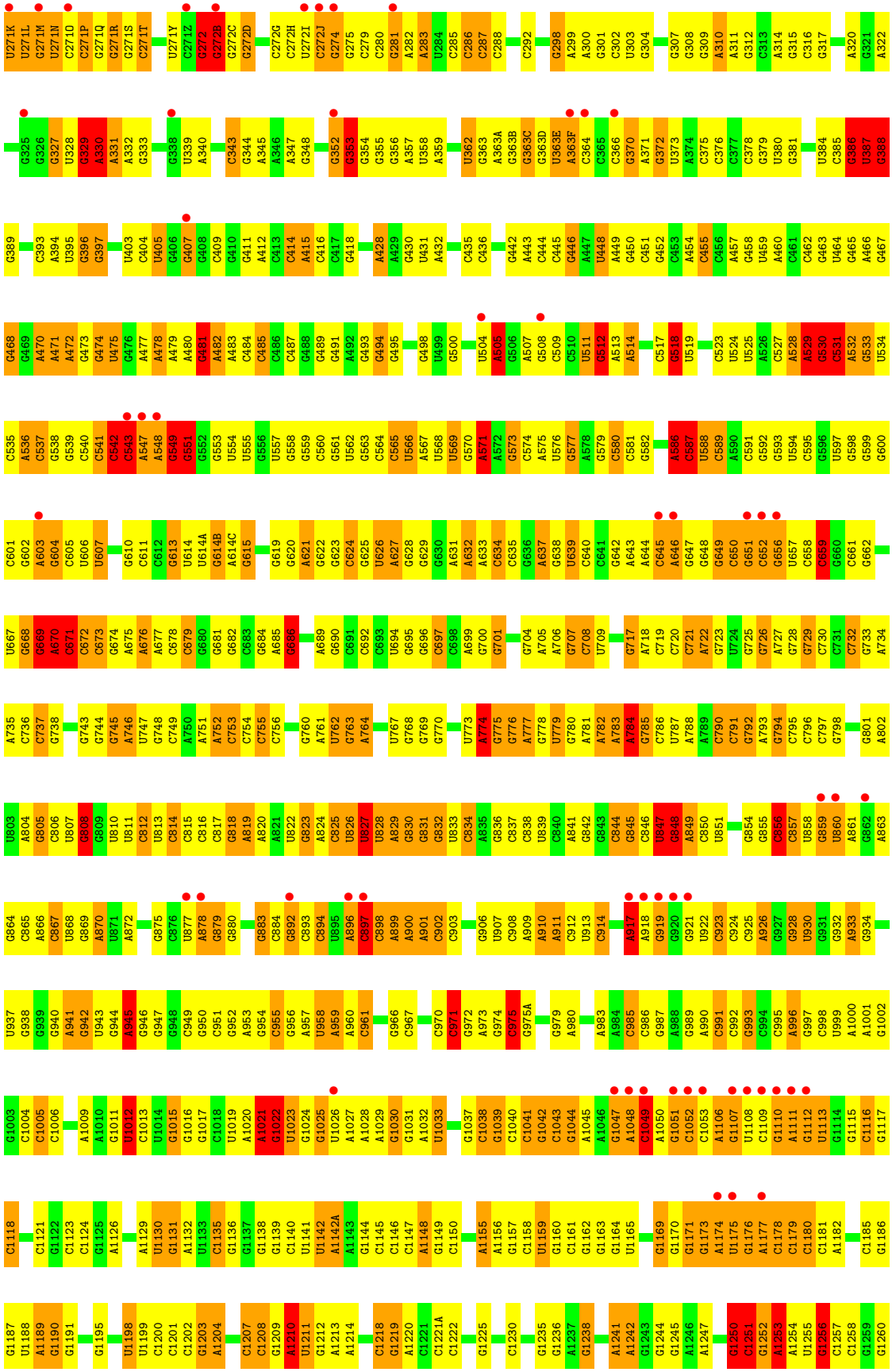
Chain D8:

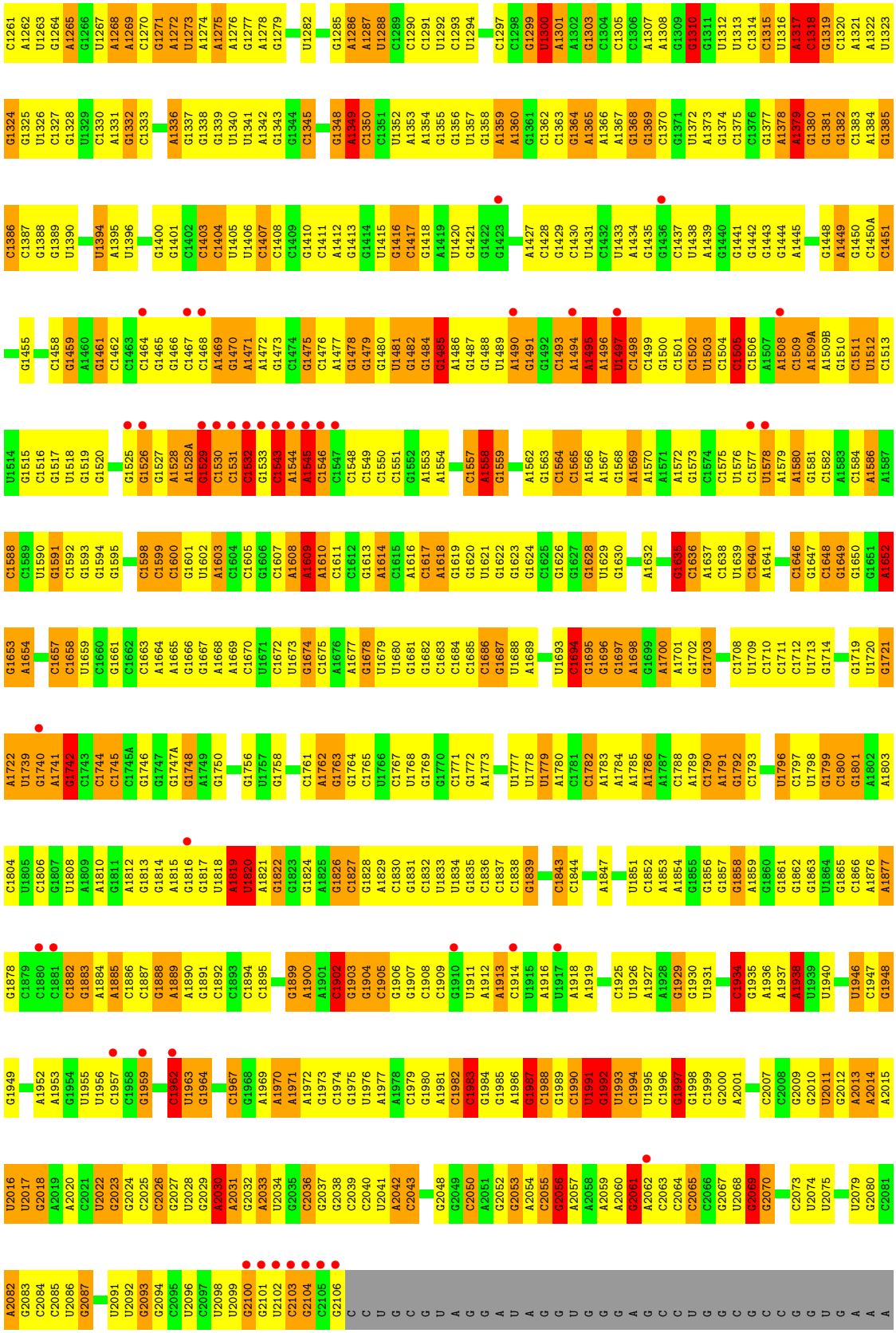


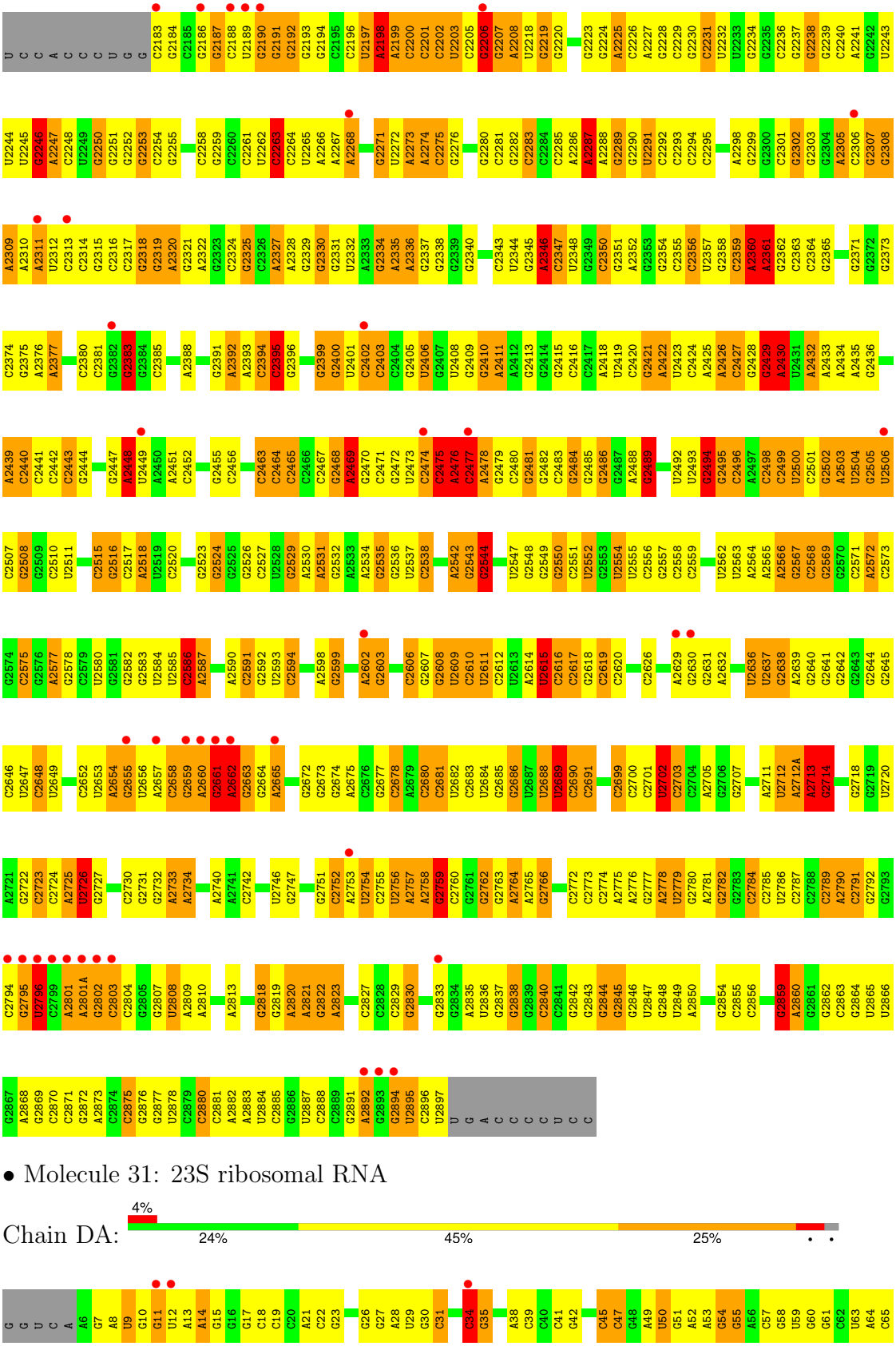
• Molecule 31: 23S ribosomal RNA

Chain BA:



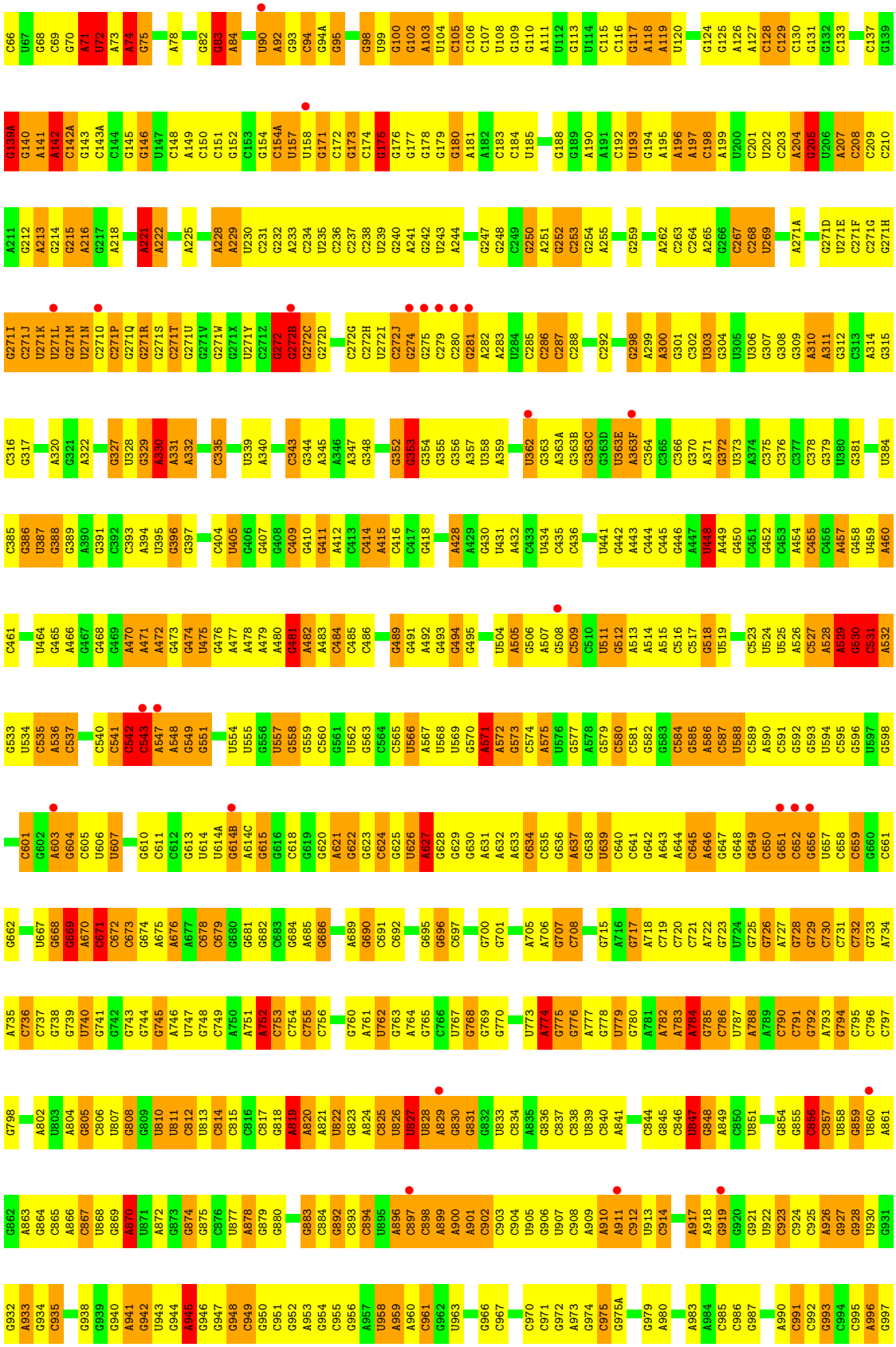






• Molecule 31: 23S ribosomal RNA

Chain DA: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G139A G140 A141 A142 C142A G143 C143A C144 G145 G146 U147 C148 A149 C150 C151 G152 C153 G154 C154A U157 U158 G171 C172 G173 C174 G175 G176 G177 G178 G179 G180 A181 A182 C183 C184 U185 G188 G189 A190 A191 C192 U193 G194 A195 A196 A197 C198 A199 U200 C201 U202 C203 A204 G205 U206 A207 C208 C209 C210
A211 G212 A213 G214 G215 A216 G217 A218 A221 A222 A225 A228 A229 U230 C231 G232 A233 C234 U235 C236 C237 C238 U239 G240 A241 G242 U243 A244 G247 G248 C249 G250 A251 G252 C253 G254 A255 G259 A262 C263 C264 A265 G266 C267 C268 U269 A271A G271D U271E C271F C271G G271H
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C385 G386 U387 G388 G389 A390 G391 C392 C393 A394 U395 G396 G397 C404 U405 G406 G407 G408 C409 G410 G411 A412 C413 C414 A415 C416 C417 G418 A428 A429 G430 U431 A432 C433 U434 C435 C436 U441 G442 A443 C444 C445 G446 A447 U448 A449 G450 C451 G452 C453 A454 C455 C456 A457 G458 U459 A460
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C601 G602 A603 G604 C605 U606 U607 G610 C611 C612 G613 U614 U614A G614B A614C G615 G616 C618 G619 G620 A621 G622 G623 C624 G625 U626 A627 G628 G629 G630 A631 A632 A633 C634 C635 G636 A637 G638 U639 C640 C641 G642 A643 A644 C645 A646 G647 G648 G649 C650 G651 C652 G656 U657 C658 C659 G660 C661
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A735 C736 C737 G738 G739 U740 G741 G742 G743 G744 G745 A746 U747 G748 C749 A750 A751 A752 C753 C754 C755 C756 G760 A761 U762 G763 A764 G765 C766 U767 G768 G769 G770 U773 A774 G775 G776 A777 G778 U779 G780 A781 A782 A783 A784 G785 C786 U787 A788 A789 C790 C791 G792 A793 G794 C795 C796 C797
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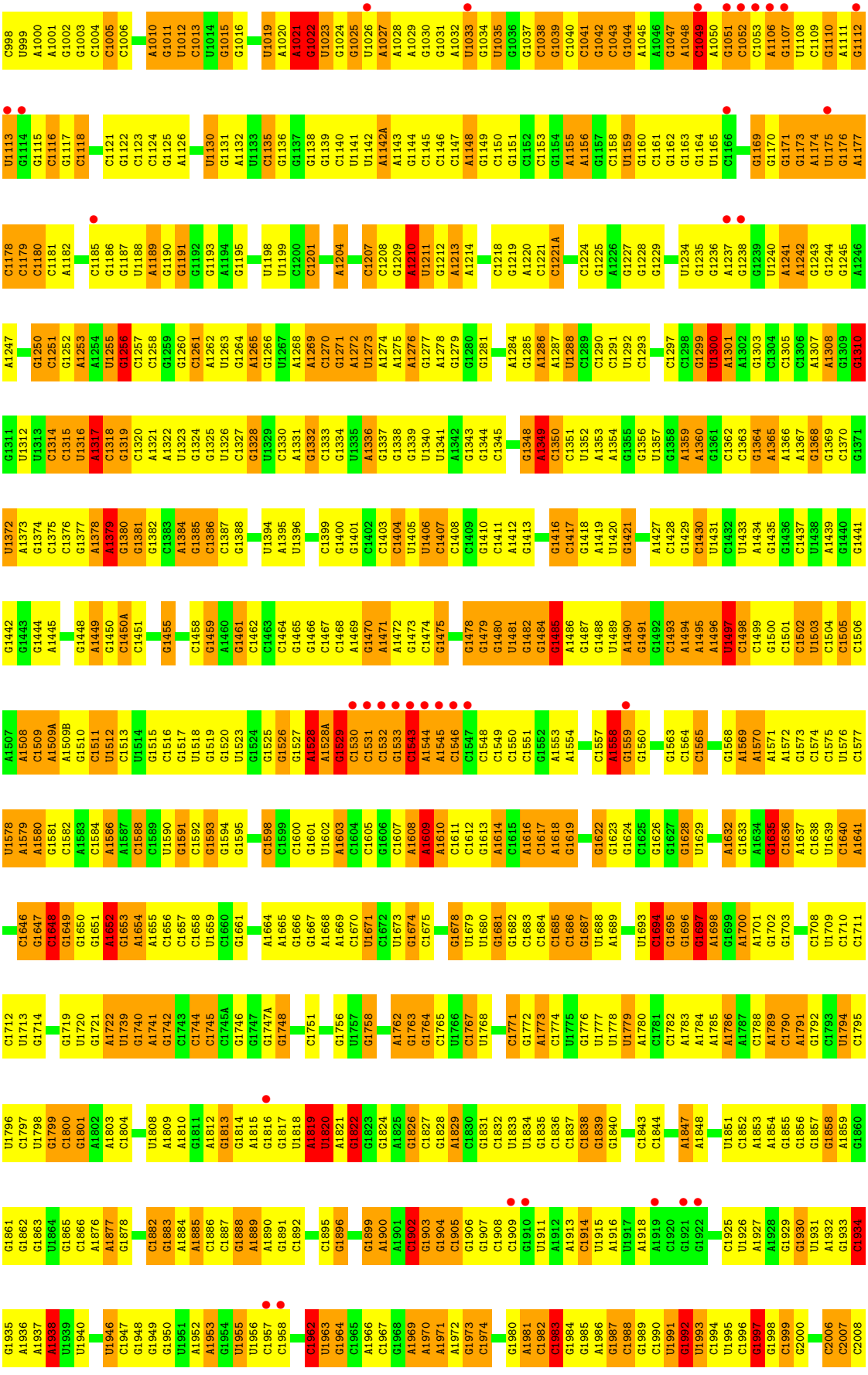
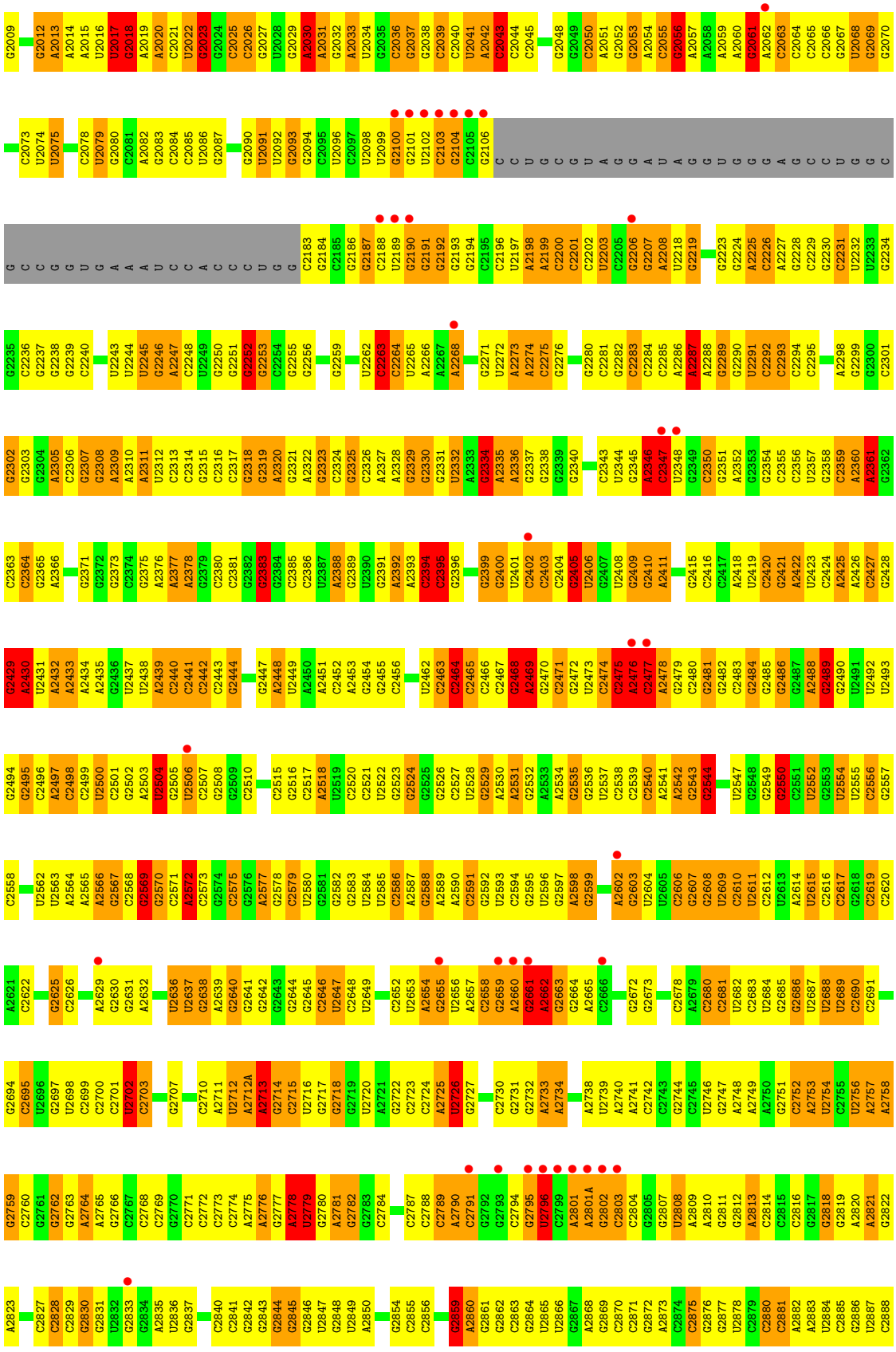
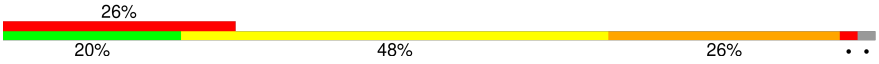
G932 A933 G934 C935 G938 G939 G940 A941 G942 U943 G944 A945 G946 G947 G948 G949 G950 C951 G952 A953 G954 C955 G956 A957 U958 A959 A960 C961 G962 U963 G966 C967 C970 C971 G972 A973 G974 G975 G975A G979 A980 A983 A984 C985 C986 G987 A990 C991 C992 G993 C994 C995 A996 G997

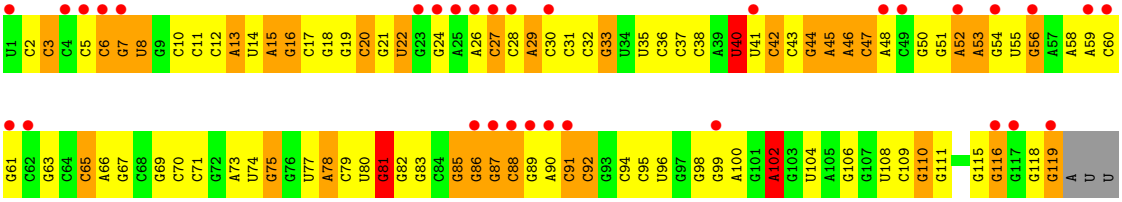




• Molecule 32: 5S ribosomal RNA

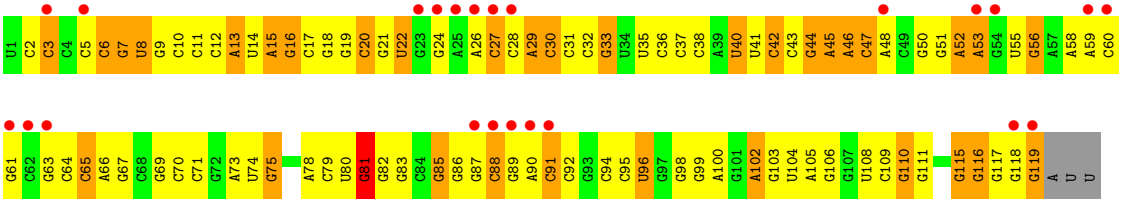
Chain BB:





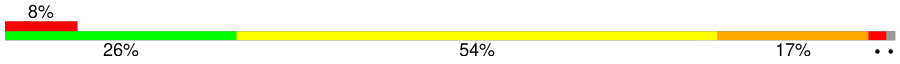
• Molecule 32: 5S ribosomal RNA

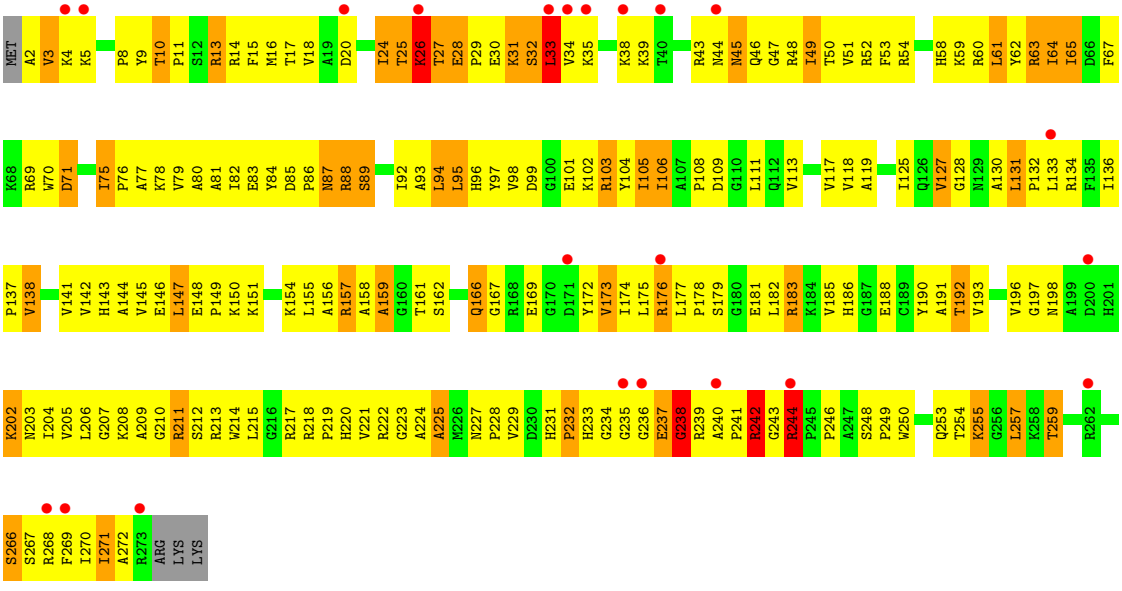
Chain DB:



• Molecule 33: 50S ribosomal protein L2

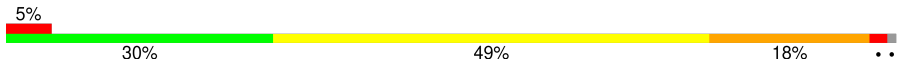
Chain BD:

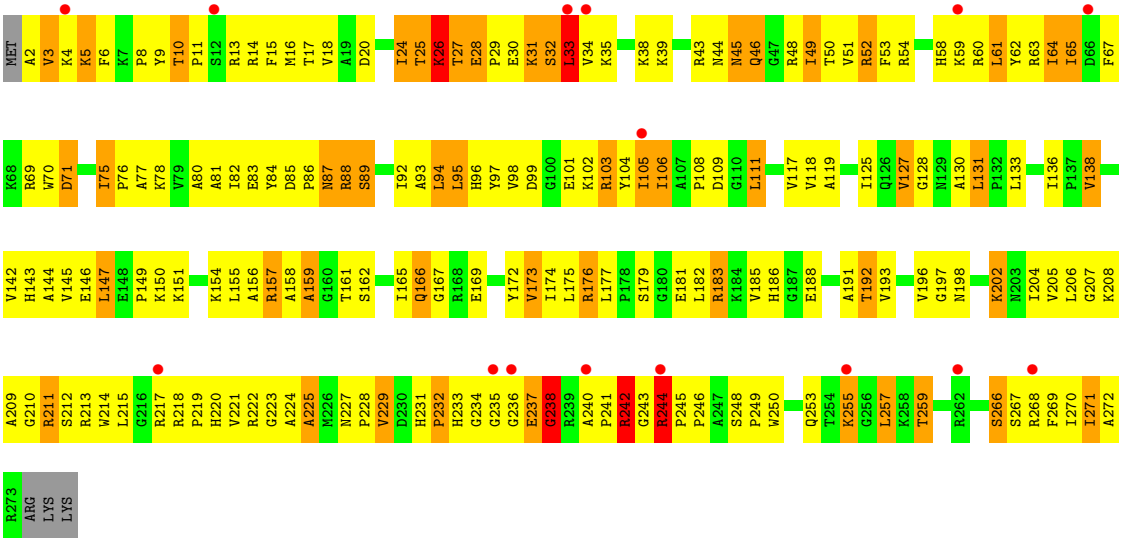




• Molecule 33: 50S ribosomal protein L2

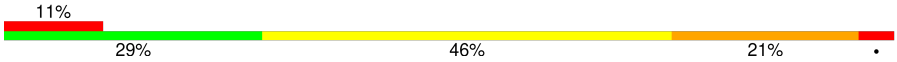
Chain DD:

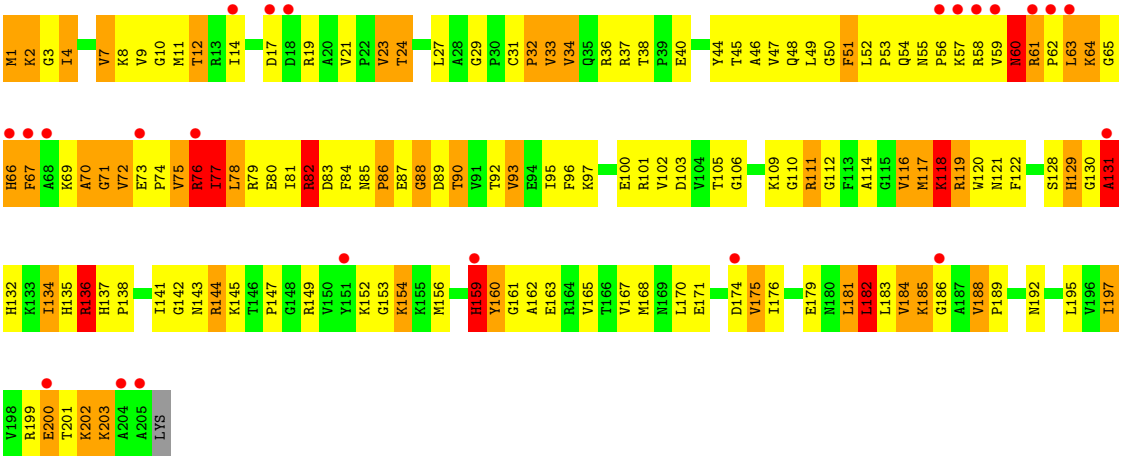




• Molecule 34: 50S ribosomal protein L3

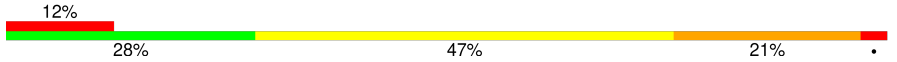
Chain BE:

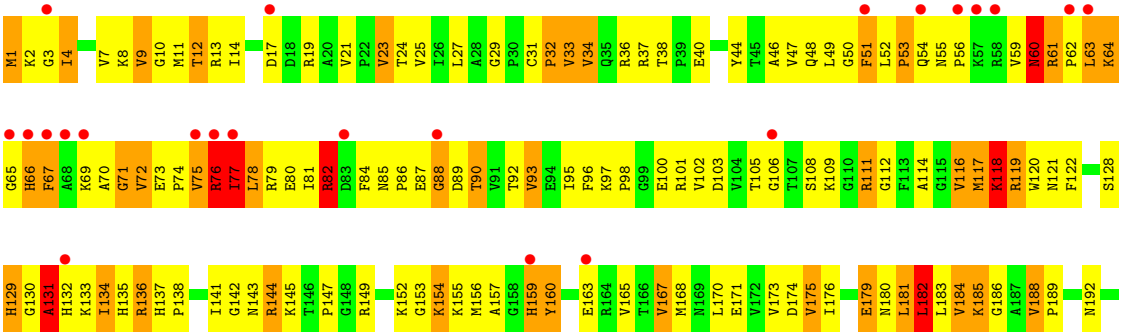


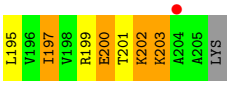


• Molecule 34: 50S ribosomal protein L3

Chain DE:

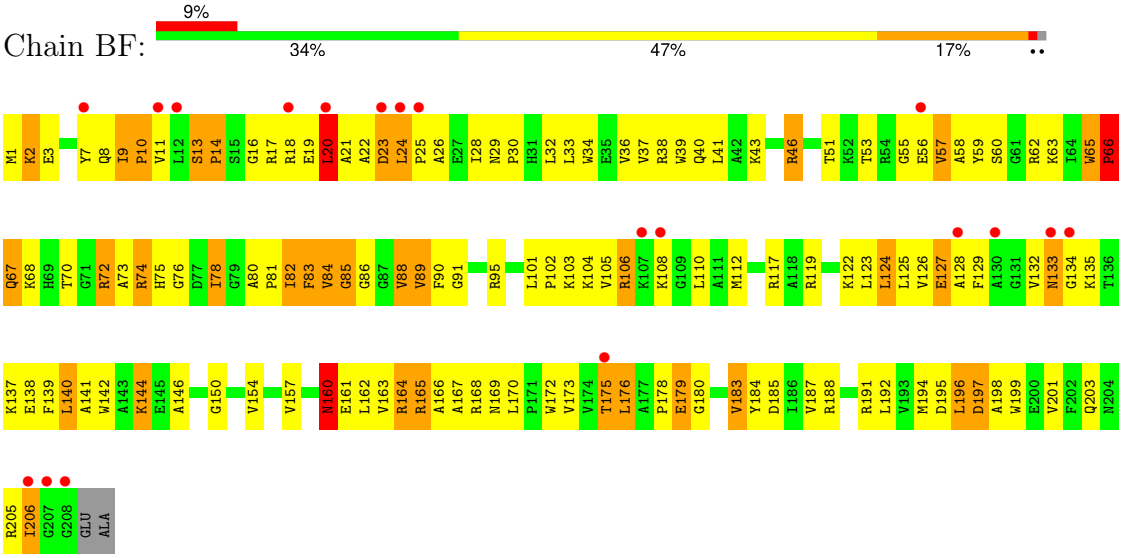






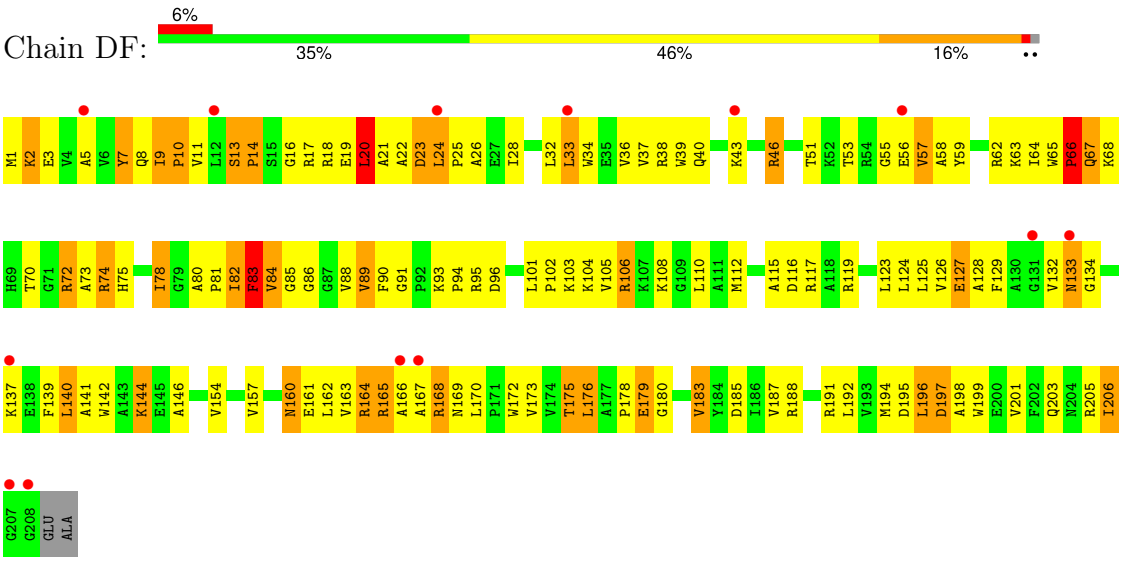
• Molecule 35: 50S ribosomal protein L4

Chain BF:



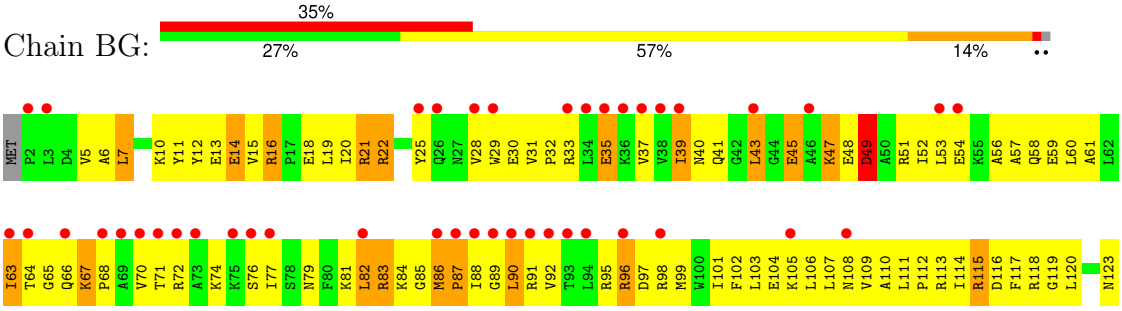
• Molecule 35: 50S ribosomal protein L4

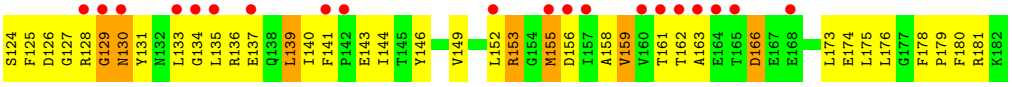
Chain DF:



• Molecule 36: 50S ribosomal protein L5

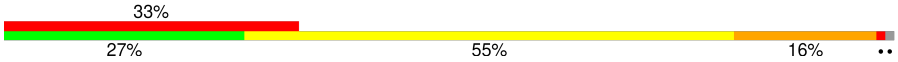
Chain BG:

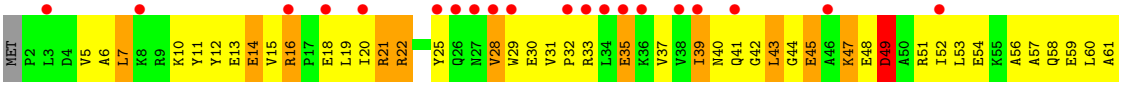


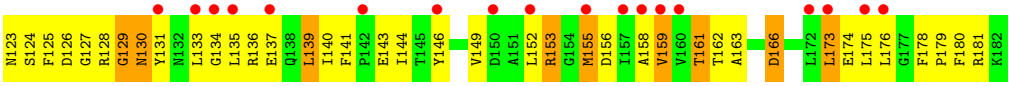


• Molecule 36: 50S ribosomal protein L5

Chain DG:

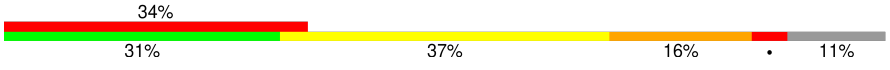


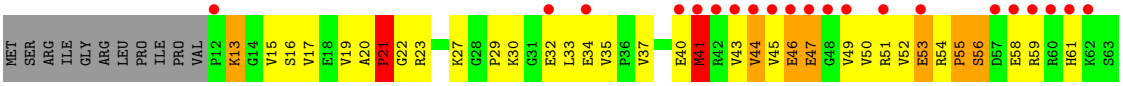


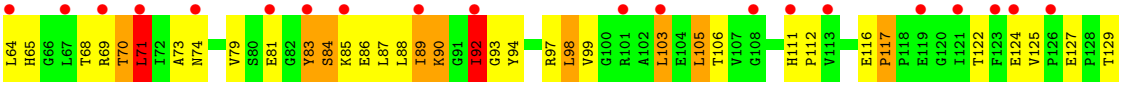


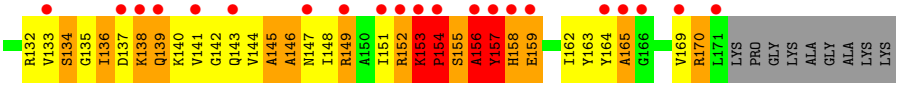
• Molecule 37: 50S ribosomal protein L6

Chain BH:



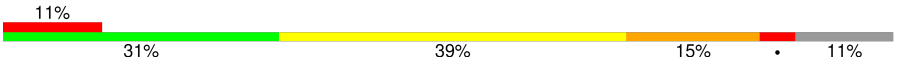


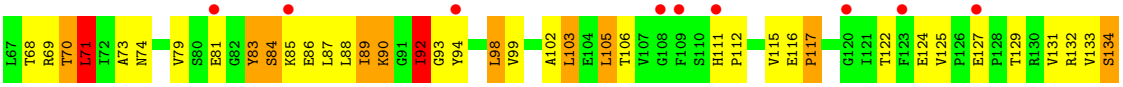




• Molecule 37: 50S ribosomal protein L6

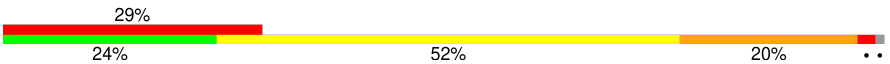
Chain DH:

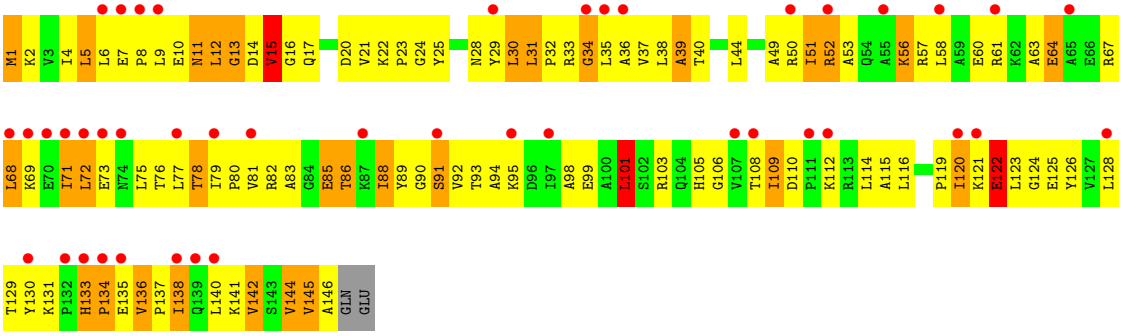




• Molecule 38: 50S ribosomal protein L9

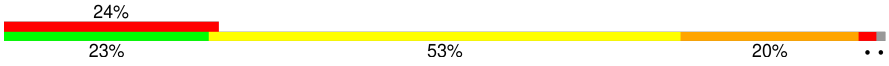
Chain BI:

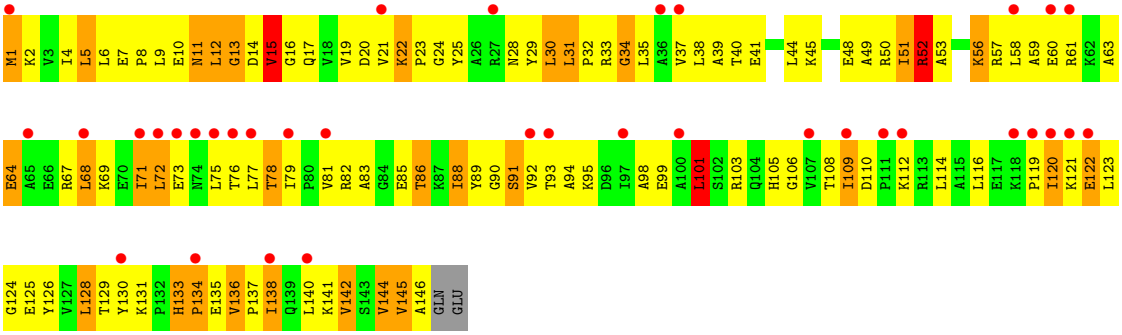




• Molecule 38: 50S ribosomal protein L9

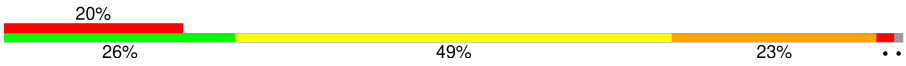
Chain DI:

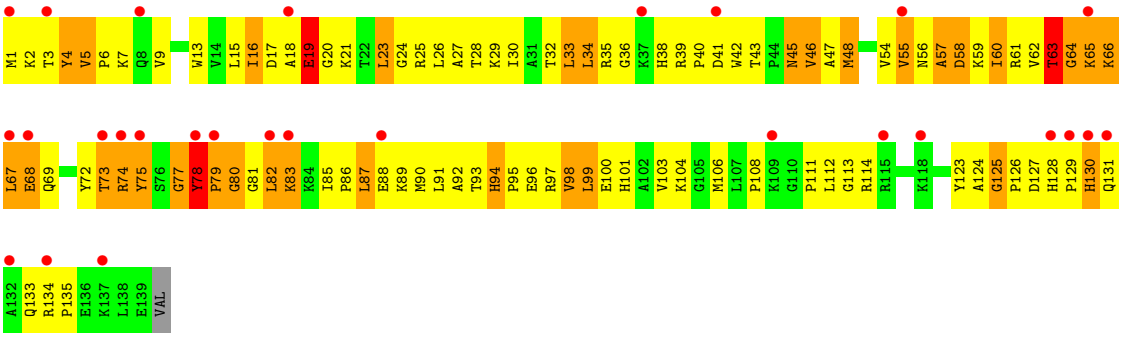




• Molecule 39: 50S ribosomal protein L13

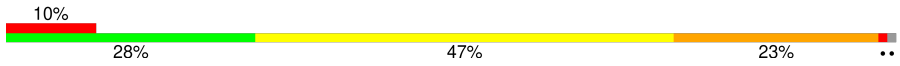
Chain BN:

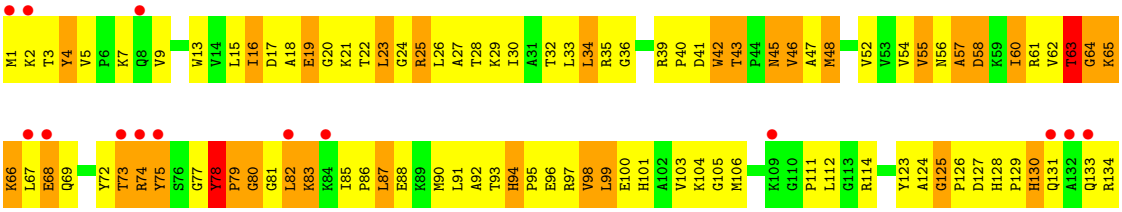




• Molecule 39: 50S ribosomal protein L13

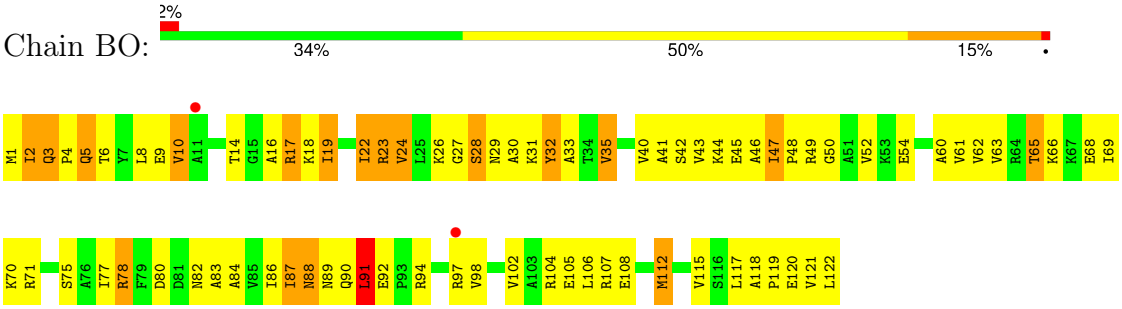
Chain DN:





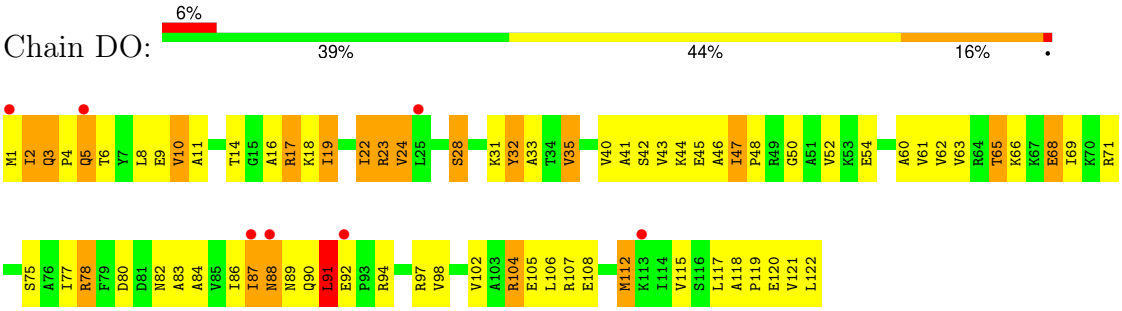
• Molecule 40: 50S ribosomal protein L14

Chain BO:



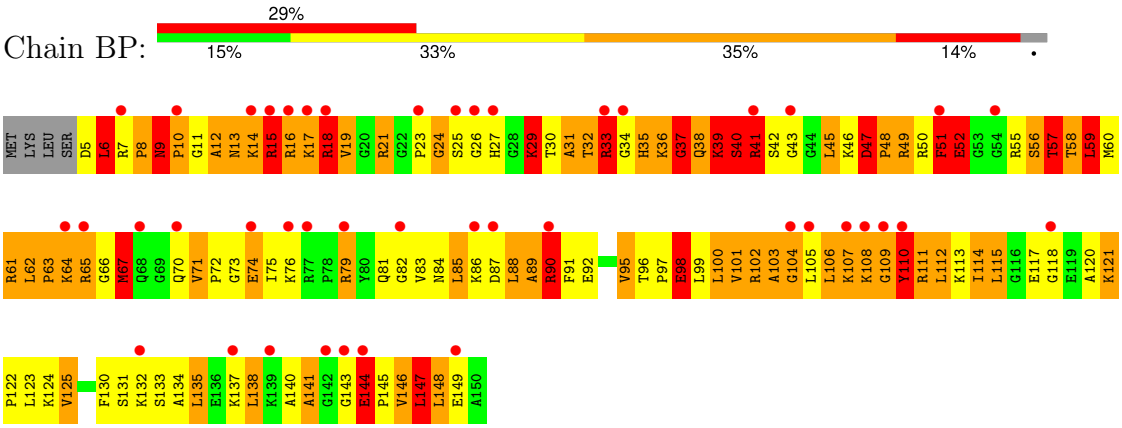
• Molecule 40: 50S ribosomal protein L14

Chain DO:



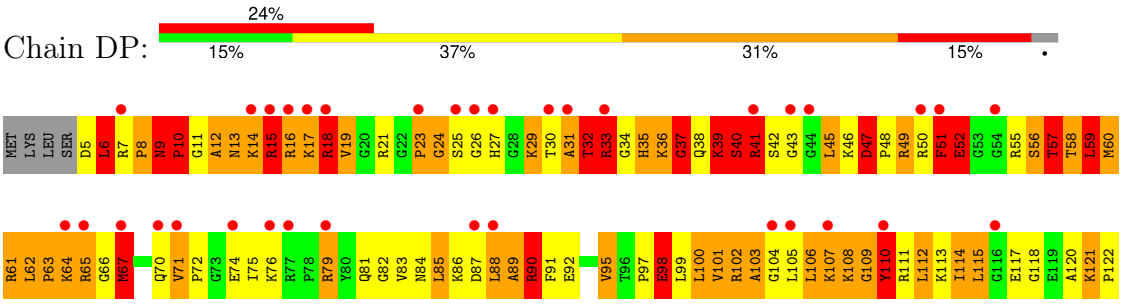
• Molecule 41: 50S ribosomal protein L15

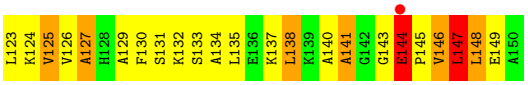
Chain BP:



• Molecule 41: 50S ribosomal protein L15

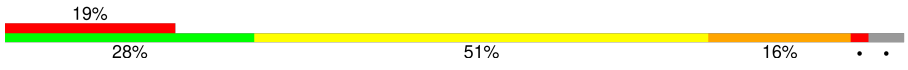
Chain DP:

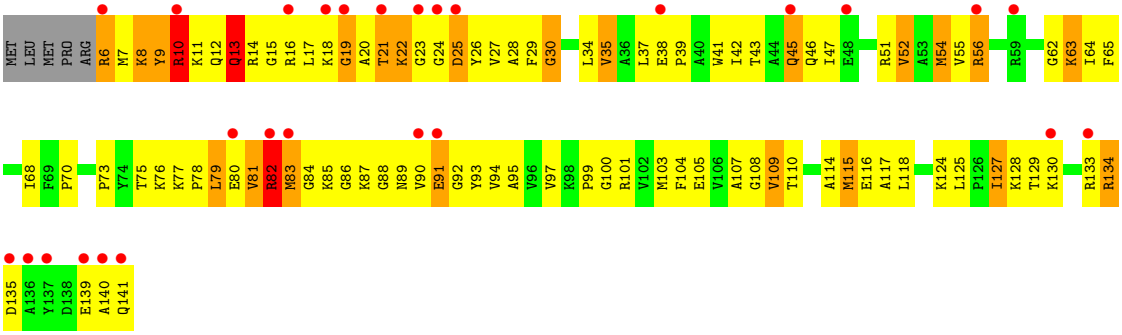




• Molecule 42: 50S ribosomal protein L16

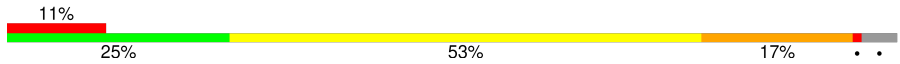
Chain BQ:

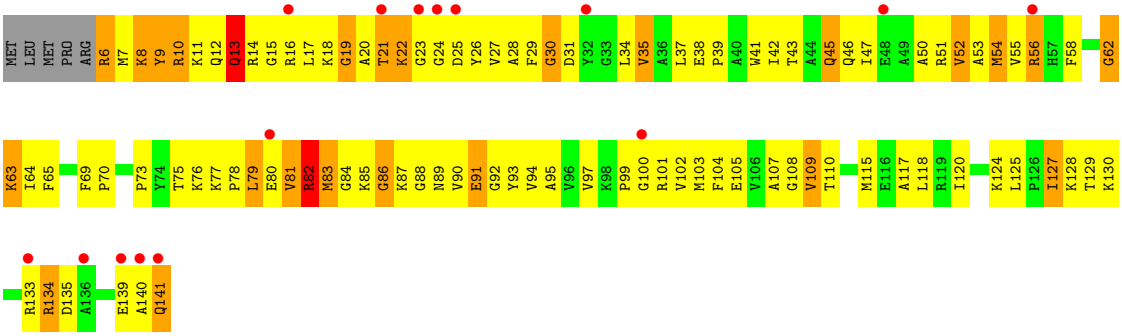




• Molecule 42: 50S ribosomal protein L16

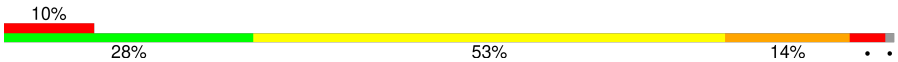
Chain DQ:

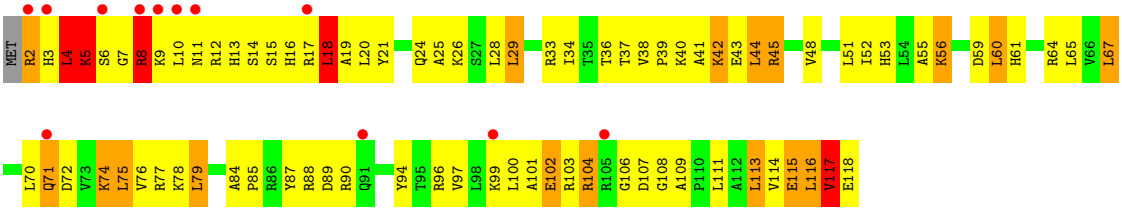




• Molecule 43: 50S ribosomal protein L17

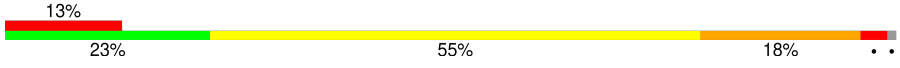
Chain BR:

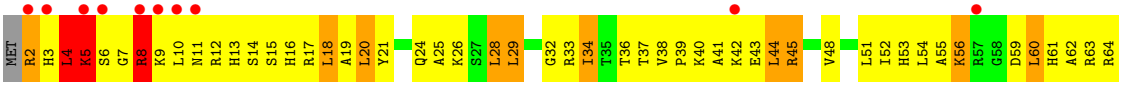




• Molecule 43: 50S ribosomal protein L17

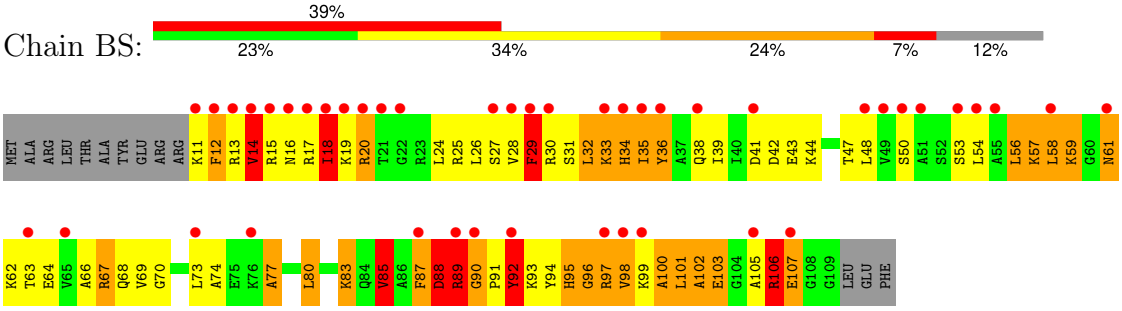
Chain DR:





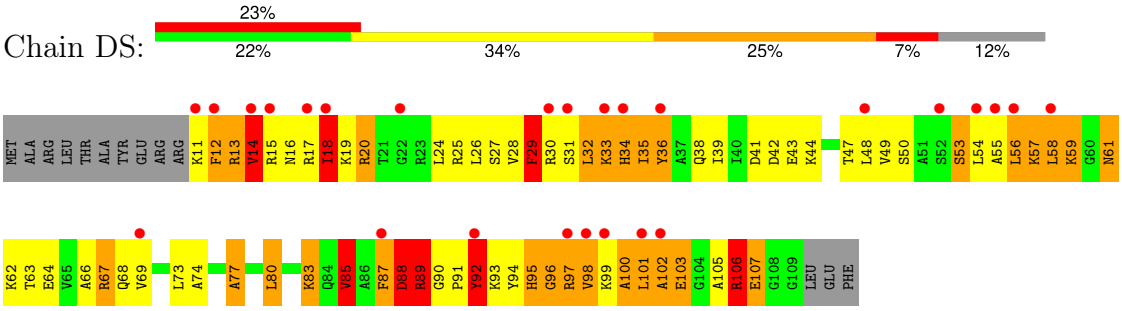
• Molecule 44: 50S ribosomal protein L18

Chain BS:



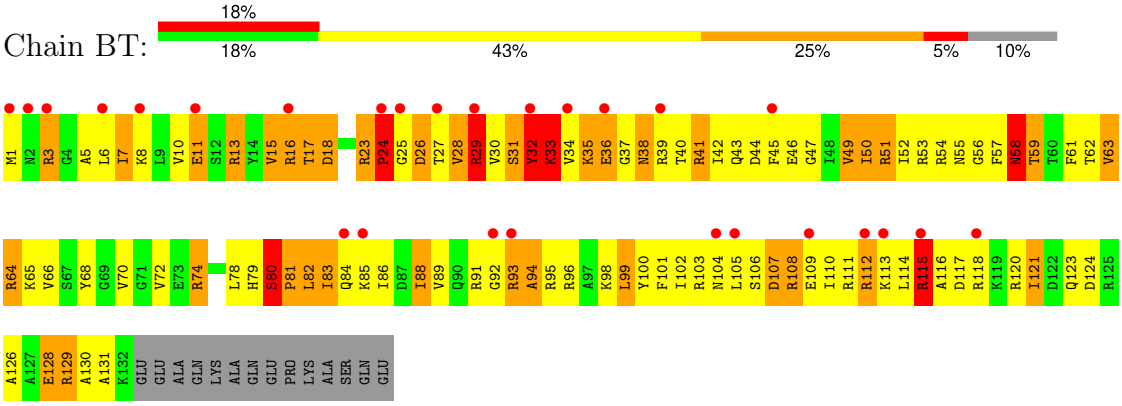
• Molecule 44: 50S ribosomal protein L18

Chain DS:



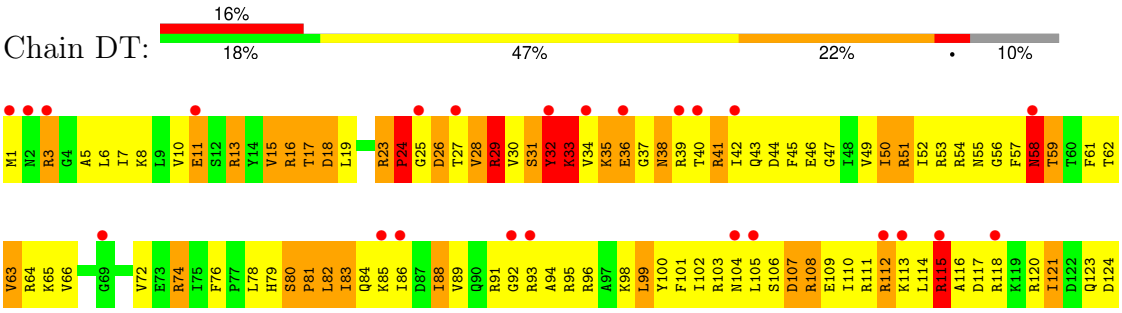
• Molecule 45: 50S ribosomal protein L19

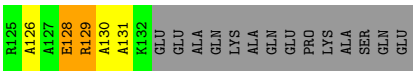
Chain BT:



• Molecule 45: 50S ribosomal protein L19

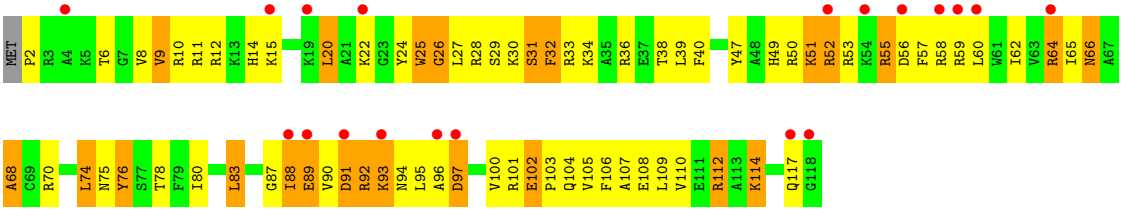
Chain DT:





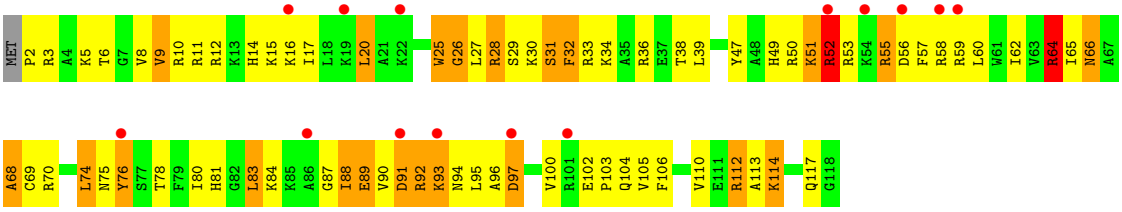
• Molecule 46: 50S ribosomal protein L20

Chain BU:



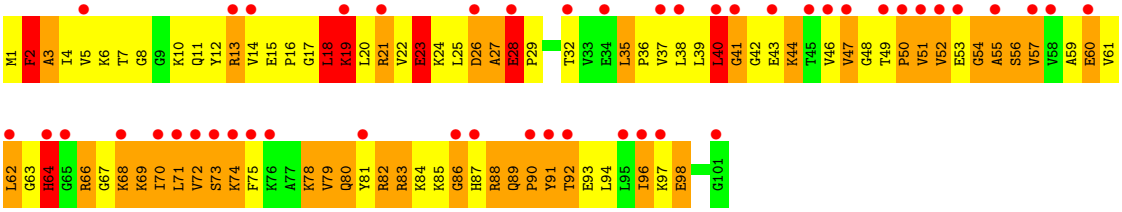
• Molecule 46: 50S ribosomal protein L20

Chain DU:



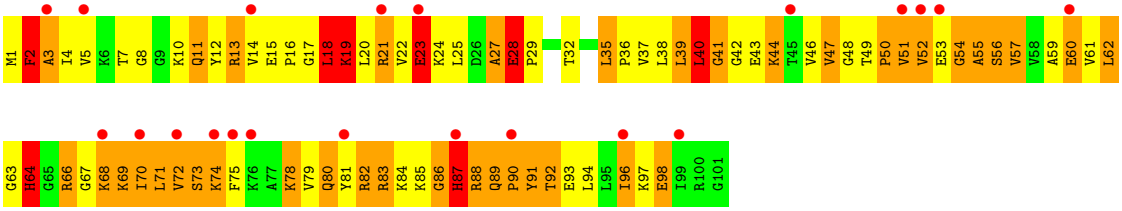
• Molecule 47: 50S ribosomal protein L21

Chain BV:



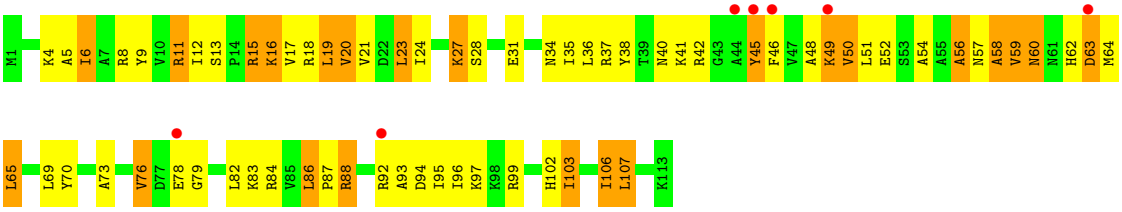
• Molecule 47: 50S ribosomal protein L21

Chain DV:



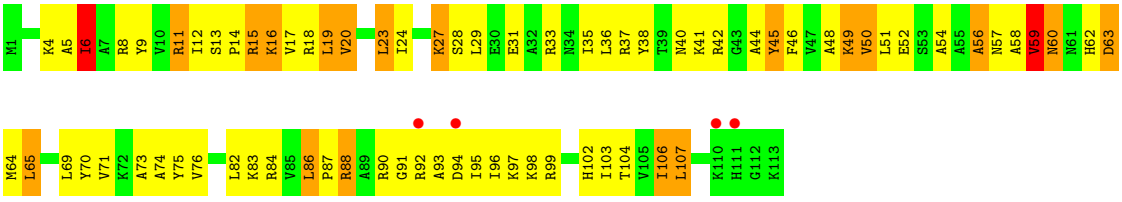
• Molecule 48: 50S ribosomal protein L22

Chain BW:



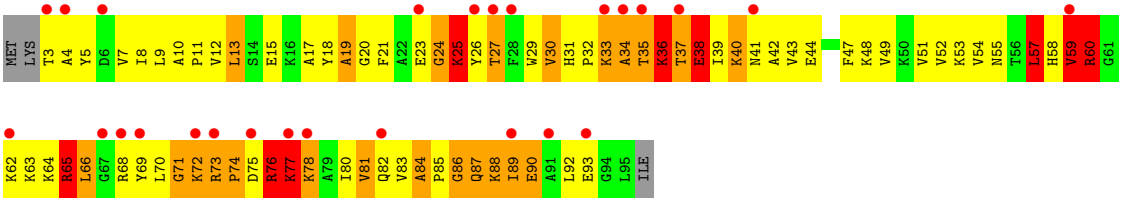
• Molecule 48: 50S ribosomal protein L22

Chain DW:



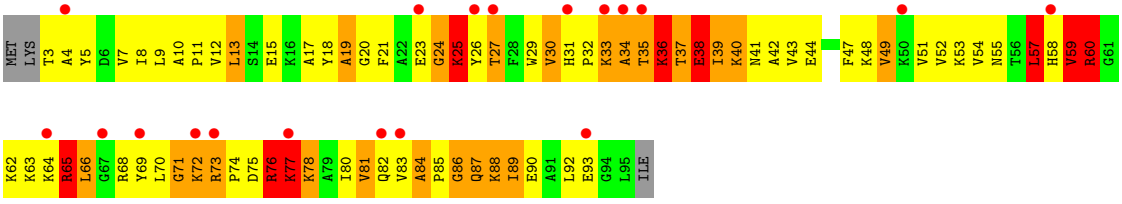
• Molecule 49: 50S ribosomal protein L23

Chain BX:



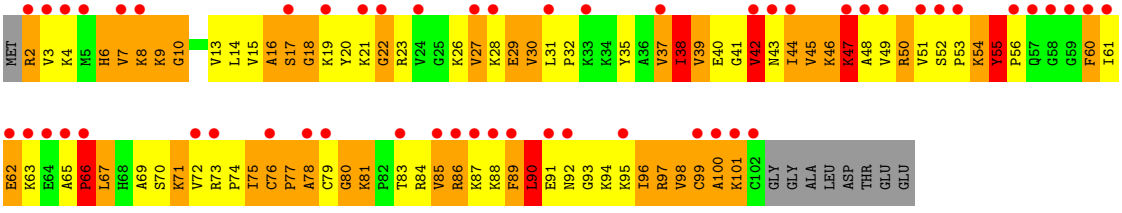
• Molecule 49: 50S ribosomal protein L23

Chain DX:



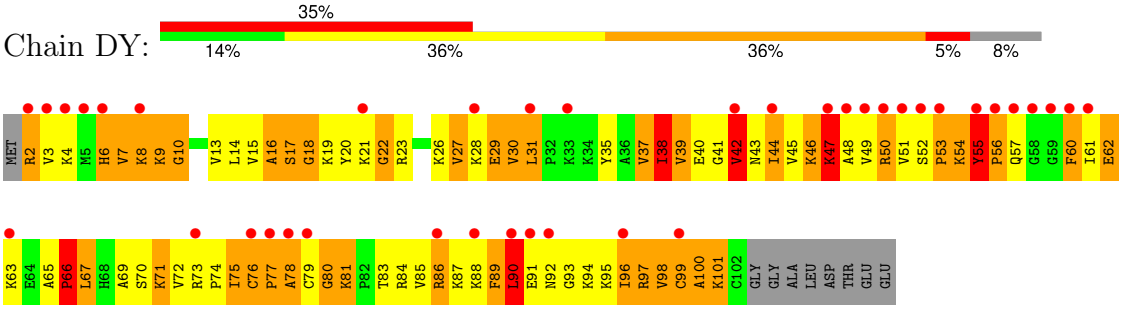
• Molecule 50: 50S ribosomal protein L24

Chain BY:



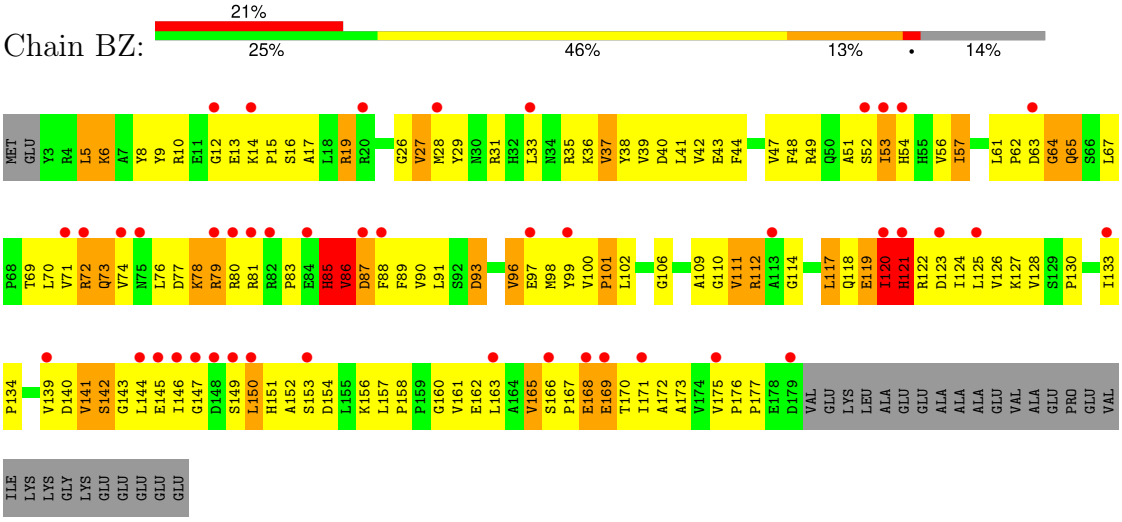
• Molecule 50: 50S ribosomal protein L24

Chain DY:



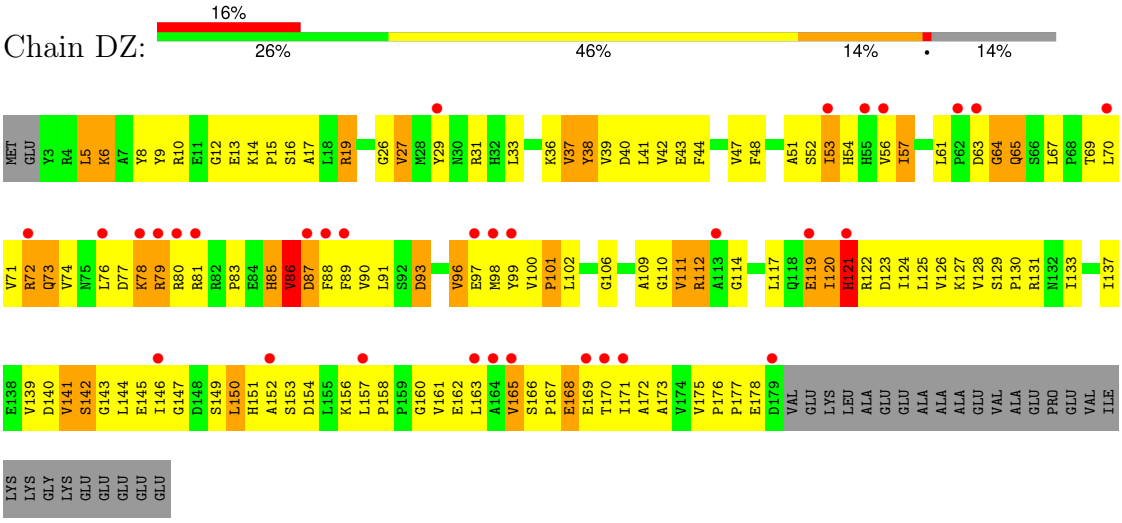
• Molecule 51: 50S ribosomal protein L25

Chain BZ:



• Molecule 51: 50S ribosomal protein L25

Chain DZ:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.22Å 450.25Å 623.81Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.80 – 3.00 49.80 – 3.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (49.80-3.00) 88.7 (49.80-3.00)	Depositor EDS
R_{merge}	0.24	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.09 (at 3.01Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.235 , 0.269 0.232 , 0.265	Depositor DCC
R_{free} test set	51892 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å^2)	73.9	Xtriage
Anisotropy	0.352	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 101.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.43$, $< L^2 > = 0.25$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.90	EDS
Total number of atoms	278000	wwPDB-VP
Average B, all atoms (Å^2)	101.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.49% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: K, ZN, MG, ZIT

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	AA	0.51	0/36190	0.87	34/56486 (0.1%)
1	CA	0.50	0/36190	0.88	40/56486 (0.1%)
2	AB	0.29	0/1936	0.51	0/2611
2	CB	0.29	0/1936	0.50	0/2611
3	AC	0.27	0/1637	0.45	0/2207
3	CC	0.27	0/1637	0.45	0/2207
4	AD	0.34	0/1733	0.52	0/2318
4	CD	0.34	0/1733	0.53	0/2318
5	AE	0.34	0/1163	0.55	0/1566
5	CE	0.34	0/1163	0.55	0/1566
6	AF	0.35	0/856	0.54	0/1154
6	CF	0.36	0/856	0.54	0/1154
7	AG	0.25	0/1276	0.44	0/1709
7	CG	0.26	0/1276	0.44	0/1709
8	AH	0.34	0/1136	0.55	0/1527
8	CH	0.33	0/1136	0.54	0/1527
9	AI	0.27	0/1028	0.44	0/1375
9	CI	0.27	0/1028	0.44	0/1375
10	AJ	0.29	0/808	0.48	0/1087
10	CJ	0.29	0/808	0.48	0/1087
11	AK	0.32	0/900	0.52	0/1213
11	CK	0.32	0/900	0.52	0/1213
12	AL	0.38	0/987	0.61	1/1322 (0.1%)
12	CL	0.39	0/987	0.62	0/1322
13	AM	0.26	0/928	0.47	0/1238
13	CM	0.27	0/928	0.47	0/1238
14	AN	0.27	0/501	0.45	0/664
14	CN	0.28	0/501	0.44	0/664
15	AO	0.35	0/745	0.56	0/992
15	CO	0.33	0/745	0.56	0/992
16	AP	0.33	0/717	0.55	0/965
16	CP	0.33	0/717	0.55	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AQ	0.33	0/837	0.57	0/1119
17	CQ	0.34	0/837	0.56	0/1119
18	AR	0.35	0/579	0.57	0/768
18	CR	0.37	0/579	0.57	0/768
19	AS	0.28	0/643	0.46	0/867
19	CS	0.28	0/643	0.46	0/867
20	AT	0.34	0/765	0.56	0/1007
20	CT	0.34	0/765	0.55	0/1007
21	AU	0.27	0/213	0.43	0/279
21	CU	0.28	0/213	0.43	0/279
22	B0	0.58	0/658	0.76	1/878 (0.1%)
22	D0	0.52	0/658	0.74	0/878
23	B1	0.74	0/700	0.98	0/931
23	D1	0.65	0/700	0.95	1/931 (0.1%)
24	B2	0.68	0/423	0.92	0/560
24	D2	0.59	0/423	0.89	0/560
25	B3	0.62	0/473	0.71	0/636
25	D3	0.47	0/473	0.69	0/636
26	B4	0.31	0/156	0.59	0/215
26	D4	0.33	0/156	0.57	0/215
27	B5	0.86	1/473 (0.2%)	1.17	2/639 (0.3%)
27	D5	0.74	0/473	1.07	2/639 (0.3%)
28	B6	0.86	1/387 (0.3%)	1.05	2/517 (0.4%)
28	D6	0.70	0/387	0.97	1/517 (0.2%)
29	B7	0.65	0/427	0.79	0/563
29	D7	0.59	0/427	0.78	0/563
30	B8	0.76	0/516	1.08	3/681 (0.4%)
30	D8	0.64	0/516	1.02	3/681 (0.4%)
31	BA	1.11	98/65745 (0.1%)	1.45	1072/102639 (1.0%)
31	DA	0.84	36/65745 (0.1%)	1.38	904/102639 (0.9%)
32	BB	0.87	0/2853	1.26	29/4451 (0.7%)
32	DB	0.69	0/2853	1.18	27/4451 (0.6%)
33	BD	0.61	0/2155	0.82	1/2907 (0.0%)
33	DD	0.56	0/2155	0.80	1/2907 (0.0%)
34	BE	0.64	0/1597	0.82	2/2155 (0.1%)
34	DE	0.57	0/1597	0.80	0/2155
35	BF	0.63	1/1659 (0.1%)	0.77	0/2246
35	DF	0.53	0/1659	0.75	2/2246 (0.1%)
36	BG	0.33	0/1498	0.55	0/2013
36	DG	0.31	0/1498	0.53	0/2013
37	BH	0.64	0/1246	0.77	0/1684
37	DH	0.47	0/1246	0.70	0/1684
38	BI	0.39	0/1147	0.64	0/1553

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	DI	0.38	0/1147	0.63	0/1553
39	BN	0.70	0/1132	0.88	1/1527 (0.1%)
39	DN	0.54	0/1132	0.79	0/1527
40	BO	0.57	0/943	0.71	0/1269
40	DO	0.50	0/943	0.69	0/1269
41	BP	0.72	1/1131 (0.1%)	1.03	4/1504 (0.3%)
41	DP	0.63	0/1131	0.95	4/1504 (0.3%)
42	BQ	0.65	0/1100	0.84	1/1470 (0.1%)
42	DQ	0.58	0/1100	0.80	0/1470
43	BR	0.63	0/974	0.91	4/1302 (0.3%)
43	DR	0.56	0/974	0.87	3/1302 (0.2%)
44	BS	0.56	0/779	0.83	0/1038
44	DS	0.49	0/779	0.78	0/1038
45	BT	0.58	0/1114	0.83	1/1488 (0.1%)
45	DT	0.53	0/1114	0.80	0/1488
46	BU	0.71	0/975	0.77	0/1297
46	DU	0.59	0/975	0.71	0/1297
47	BV	0.76	0/789	0.96	1/1054 (0.1%)
47	DV	0.58	0/789	0.89	1/1054 (0.1%)
48	BW	0.67	0/907	0.84	0/1216
48	DW	0.58	0/907	0.79	0/1216
49	BX	0.74	0/740	0.99	3/995 (0.3%)
49	DX	0.64	0/740	0.90	2/995 (0.2%)
50	BY	0.67	1/789 (0.1%)	0.88	1/1053 (0.1%)
50	DY	0.56	0/789	0.82	1/1053 (0.1%)
51	BZ	0.46	0/1436	0.64	2/1951 (0.1%)
51	DZ	0.40	0/1436	0.62	2/1951 (0.1%)
All	All	0.75	139/301000 (0.0%)	1.13	2159/449812 (0.5%)

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
23	B1	0	1
23	D1	0	1
24	B2	0	3
24	D2	0	1
27	B5	0	1
27	D5	0	1
31	BA	21	0

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Mol	Chain	#Chirality outliers	#Planarity outliers
31	DA	21	0
33	BD	0	2
33	DD	0	2
34	BE	0	2
34	DE	0	2
35	BF	0	1
37	BH	0	2
37	DH	0	2
41	BP	0	5
41	DP	0	4
42	BQ	0	1
42	DQ	0	1
43	BR	0	1
43	DR	0	1
44	BS	0	1
44	DS	0	1
45	BT	0	1
45	DT	0	1
47	BV	0	1
47	DV	0	2
49	BX	0	3
49	DX	0	3
All	All	42	47

The worst 5 of 139 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	BA	783	A	N9-C4	-12.00	1.30	1.37
31	BA	669	G	C4'-C3'	-11.54	1.40	1.53
31	DA	528	A	N9-C4	-11.40	1.31	1.37
31	BA	2346	A	N3-C4	-10.07	1.28	1.34
31	DA	669	G	C4'-C3'	-9.54	1.42	1.53

The worst 5 of 2159 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	DA	1779	U	C5-C6-N1	-19.83	112.78	122.70
31	DA	2447	G	N1-C6-O6	16.89	130.03	119.90
31	BA	1779	U	C5-C6-N1	-16.70	114.35	122.70
31	DA	2447	G	C5-C6-O6	-16.69	118.58	128.60
31	BA	676	A	C5-N7-C8	-15.75	96.03	103.90

5 of 42 chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
31	BA	100	G	C1'
31	BA	472	A	C3'
31	BA	669	G	C4',C3',C1'
31	BA	945	A	C1'
31	BA	1300	U	C4',C3',C1'

5 of 47 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
23	B1	30	VAL	Peptide
24	B2	55	ARG	Peptide
24	B2	56	GLN	Peptide
24	B2	57	ILE	Peptide
27	B5	51	TYR	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	AA	32329	0	16318	1409	0
1	CA	32329	0	16318	1381	0
2	AB	1901	0	1951	169	0
2	CB	1901	0	1951	167	0
3	AC	1613	0	1677	116	0
3	CC	1613	0	1677	117	0
4	AD	1703	0	1763	158	0
4	CD	1703	0	1763	160	0
5	AE	1147	0	1207	103	0
5	CE	1147	0	1207	107	0
6	AF	843	0	857	80	0
6	CF	843	0	857	86	0
7	AG	1257	0	1296	60	0
7	CG	1257	0	1296	62	0
8	AH	1116	0	1177	83	0
8	CH	1116	0	1177	82	0
9	AI	1011	0	1042	84	0
9	CI	1011	0	1042	85	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	AJ	795	0	840	80	0
10	CJ	795	0	840	82	0
11	AK	885	0	904	64	0
11	CK	885	0	904	69	0
12	AL	971	0	1057	104	0
12	CL	971	0	1057	106	0
13	AM	921	0	976	60	0
13	CM	921	0	976	63	0
14	AN	492	0	530	35	0
14	CN	492	0	529	33	0
15	AO	734	0	771	54	0
15	CO	734	0	771	56	0
16	AP	701	0	720	88	0
16	CP	701	0	720	91	0
17	AQ	824	0	891	46	0
17	CQ	824	0	891	49	0
18	AR	574	0	644	63	0
18	CR	574	0	644	64	0
19	AS	630	0	652	40	0
19	CS	630	0	652	34	0
20	AT	763	0	861	78	0
20	CT	763	0	861	75	0
21	AU	209	0	221	11	0
21	CU	209	0	221	11	0
22	B0	650	0	654	67	0
22	D0	650	0	654	64	0
23	B1	693	0	764	143	0
23	D1	693	0	764	144	0
24	B2	421	0	461	119	1
24	D2	421	0	461	125	0
25	B3	468	0	523	37	0
25	D3	468	0	523	56	0
26	B4	157	0	69	12	0
26	D4	157	0	69	12	0
27	B5	459	0	478	82	0
27	D5	459	0	480	85	0
28	B6	381	0	390	96	0
28	D6	381	0	390	92	0
29	B7	419	0	467	37	0
29	D7	419	0	467	38	0
30	B8	508	0	576	156	0
30	D8	508	0	576	144	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	BA	58698	0	29590	2392	0
31	DA	58698	0	29591	2578	1
32	BB	2551	0	1295	156	0
32	DB	2551	0	1295	173	0
33	BD	2105	0	2182	336	0
33	DD	2105	0	2182	333	0
34	BE	1564	0	1629	214	0
34	DE	1564	0	1629	213	0
35	BF	1624	0	1677	171	0
35	DF	1624	0	1677	178	0
36	BG	1474	0	1534	149	0
36	DG	1474	0	1534	149	0
37	BH	1223	0	1282	141	0
37	DH	1223	0	1282	129	0
38	BI	1132	0	1218	142	0
38	DI	1132	0	1218	156	0
39	BN	1105	0	1180	184	0
39	DN	1105	0	1180	183	0
40	BO	933	0	996	86	0
40	DO	933	0	996	76	0
41	BP	1114	0	1187	271	0
41	DP	1114	0	1187	260	0
42	BQ	1080	0	1127	157	0
42	DQ	1080	0	1127	162	0
43	BR	960	0	1021	115	0
43	DR	960	0	1021	117	0
44	BS	771	0	832	148	0
44	DS	771	0	832	150	0
45	BT	1100	0	1164	173	0
45	DT	1100	0	1164	166	0
46	BU	958	0	1015	142	0
46	DU	958	0	1015	151	0
47	BV	779	0	851	210	0
47	DV	779	0	851	215	0
48	BW	896	0	953	76	0
48	DW	896	0	953	80	0
49	BX	726	0	778	163	0
49	DX	726	0	778	168	0
50	BY	776	0	870	179	0
50	DY	776	0	870	187	0
51	BZ	1404	0	1432	140	0
51	DZ	1404	0	1432	139	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	AA	51	0	0	0	0
52	B0	1	0	0	0	0
52	B1	1	0	0	0	0
52	B5	2	0	0	0	0
52	B7	1	0	0	0	0
52	BA	349	0	0	0	0
52	BB	5	0	0	0	0
52	BD	1	0	0	0	0
52	BE	1	0	0	0	0
52	BF	1	0	0	0	0
52	BP	3	0	0	0	0
52	BQ	2	0	0	0	0
52	BR	1	0	0	0	0
52	BU	1	0	0	0	0
52	BX	1	0	0	0	0
52	CA	48	0	0	0	0
52	D0	1	0	0	0	0
52	D1	1	0	0	0	0
52	D5	2	0	0	0	0
52	D7	1	0	0	0	0
52	DA	309	0	0	0	0
52	DB	3	0	0	0	0
52	DD	1	0	0	0	0
52	DE	1	0	0	0	0
52	DF	1	0	0	0	0
52	DP	1	0	0	0	0
52	DQ	1	0	0	0	0
52	DR	1	0	0	0	0
52	DU	1	0	0	0	0
52	DX	1	0	0	0	0
53	AD	1	0	0	0	0
53	AN	1	0	0	0	0
53	CD	1	0	0	0	0
53	CN	1	0	0	0	0
54	BA	1	0	0	0	0
54	DA	1	0	0	0	0
55	BA	52	0	72	3	0
55	DA	52	0	72	3	0
All	All	278000	0	189246	17418	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 37.

The worst 5 of 17418 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)
42:BQ:81:VAL:O	42:BQ:82:ARG:HG2	1.13	1.31
42:DQ:81:VAL:O	42:DQ:82:ARG:HG2	1.25	1.27
41:BP:59:LEU:HA	41:BP:61:ARG:NH1	1.49	1.25
41:DP:59:LEU:HA	41:DP:61:ARG:NH1	1.55	1.20
31:DA:2206:G:N2	31:DA:2207:G:H5'	1.58	1.19

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)
24:B2:12:GLU:CB	31:DA:306:U:OP1[1_455]	2.15	0.05

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	AB	233/256 (91%)	178 (76%)	38 (16%)	17 (7%)	1 4
2	CB	233/256 (91%)	177 (76%)	39 (17%)	17 (7%)	1 4
3	AC	205/239 (86%)	155 (76%)	36 (18%)	14 (7%)	1 5
3	CC	205/239 (86%)	155 (76%)	37 (18%)	13 (6%)	1 6
4	AD	206/209 (99%)	138 (67%)	52 (25%)	16 (8%)	1 4
4	CD	206/209 (99%)	137 (66%)	55 (27%)	14 (7%)	1 5
5	AE	149/162 (92%)	105 (70%)	31 (21%)	13 (9%)	0 3
5	CE	149/162 (92%)	103 (69%)	33 (22%)	13 (9%)	0 3
6	AF	99/101 (98%)	76 (77%)	15 (15%)	8 (8%)	1 3
6	CF	99/101 (98%)	76 (77%)	14 (14%)	9 (9%)	0 2
7	AG	153/156 (98%)	130 (85%)	19 (12%)	4 (3%)	4 23

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
7	CG	153/156 (98%)	131 (86%)	18 (12%)	4 (3%)	4 23
8	AH	136/138 (99%)	98 (72%)	31 (23%)	7 (5%)	1 10
8	CH	136/138 (99%)	98 (72%)	31 (23%)	7 (5%)	1 10
9	AI	123/128 (96%)	92 (75%)	24 (20%)	7 (6%)	1 8
9	CI	123/128 (96%)	94 (76%)	22 (18%)	7 (6%)	1 8
10	AJ	97/105 (92%)	81 (84%)	11 (11%)	5 (5%)	1 9
10	CJ	97/105 (92%)	81 (84%)	11 (11%)	5 (5%)	1 9
11	AK	117/129 (91%)	87 (74%)	26 (22%)	4 (3%)	3 17
11	CK	117/129 (91%)	86 (74%)	27 (23%)	4 (3%)	3 17
12	AL	123/135 (91%)	82 (67%)	31 (25%)	10 (8%)	1 3
12	CL	123/135 (91%)	83 (68%)	29 (24%)	11 (9%)	0 2
13	AM	107/126 (85%)	84 (78%)	17 (16%)	6 (6%)	1 8
13	CM	107/126 (85%)	84 (78%)	17 (16%)	6 (6%)	1 8
14	AN	58/61 (95%)	45 (78%)	11 (19%)	2 (3%)	3 17
14	CN	58/61 (95%)	44 (76%)	12 (21%)	2 (3%)	3 17
15	AO	86/89 (97%)	62 (72%)	19 (22%)	5 (6%)	1 8
15	CO	86/89 (97%)	61 (71%)	21 (24%)	4 (5%)	2 11
16	AP	82/88 (93%)	48 (58%)	27 (33%)	7 (8%)	0 3
16	CP	82/88 (93%)	47 (57%)	29 (35%)	6 (7%)	1 4
17	AQ	98/105 (93%)	74 (76%)	18 (18%)	6 (6%)	1 7
17	CQ	98/105 (93%)	73 (74%)	19 (19%)	6 (6%)	1 7
18	AR	68/88 (77%)	52 (76%)	11 (16%)	5 (7%)	1 4
18	CR	68/88 (77%)	51 (75%)	13 (19%)	4 (6%)	1 7
19	AS	77/93 (83%)	58 (75%)	13 (17%)	6 (8%)	1 4
19	CS	77/93 (83%)	59 (77%)	12 (16%)	6 (8%)	1 4
20	AT	97/106 (92%)	69 (71%)	19 (20%)	9 (9%)	0 2
20	CT	97/106 (92%)	65 (67%)	23 (24%)	9 (9%)	0 2
21	AU	23/27 (85%)	18 (78%)	4 (17%)	1 (4%)	2 13
21	CU	23/27 (85%)	18 (78%)	4 (17%)	1 (4%)	2 13
22	B0	83/85 (98%)	65 (78%)	14 (17%)	4 (5%)	2 11
22	D0	83/85 (98%)	64 (77%)	15 (18%)	4 (5%)	2 11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
23	B1	87/98 (89%)	48 (55%)	17 (20%)	22 (25%)	0	0
23	D1	87/98 (89%)	45 (52%)	19 (22%)	23 (26%)	0	0
24	B2	49/72 (68%)	23 (47%)	19 (39%)	7 (14%)	0	1
24	D2	49/72 (68%)	23 (47%)	18 (37%)	8 (16%)	0	0
25	B3	58/60 (97%)	52 (90%)	4 (7%)	2 (3%)	3	17
25	D3	58/60 (97%)	51 (88%)	5 (9%)	2 (3%)	3	17
26	B4	30/71 (42%)	5 (17%)	11 (37%)	14 (47%)	0	0
26	D4	30/71 (42%)	5 (17%)	10 (33%)	15 (50%)	0	0
27	B5	57/60 (95%)	38 (67%)	11 (19%)	8 (14%)	0	1
27	D5	57/60 (95%)	36 (63%)	14 (25%)	7 (12%)	0	1
28	B6	41/54 (76%)	21 (51%)	6 (15%)	14 (34%)	0	0
28	D6	41/54 (76%)	19 (46%)	8 (20%)	14 (34%)	0	0
29	B7	47/49 (96%)	41 (87%)	4 (8%)	2 (4%)	2	13
29	D7	47/49 (96%)	40 (85%)	4 (8%)	3 (6%)	1	6
30	B8	62/65 (95%)	42 (68%)	11 (18%)	9 (14%)	0	1
30	D8	62/65 (95%)	41 (66%)	12 (19%)	9 (14%)	0	1
33	BD	270/276 (98%)	208 (77%)	45 (17%)	17 (6%)	1	6
33	DD	270/276 (98%)	207 (77%)	47 (17%)	16 (6%)	1	7
34	BE	203/206 (98%)	138 (68%)	37 (18%)	28 (14%)	0	1
34	DE	203/206 (98%)	138 (68%)	38 (19%)	27 (13%)	0	1
35	BF	206/210 (98%)	160 (78%)	30 (15%)	16 (8%)	1	4
35	DF	206/210 (98%)	156 (76%)	33 (16%)	17 (8%)	0	3
36	BG	177/182 (97%)	128 (72%)	35 (20%)	14 (8%)	1	3
36	DG	177/182 (97%)	127 (72%)	36 (20%)	14 (8%)	1	3
37	BH	158/180 (88%)	92 (58%)	41 (26%)	25 (16%)	0	0
37	DH	158/180 (88%)	93 (59%)	39 (25%)	26 (16%)	0	0
38	BI	144/148 (97%)	88 (61%)	32 (22%)	24 (17%)	0	0
38	DI	144/148 (97%)	87 (60%)	35 (24%)	22 (15%)	0	0
39	BN	137/140 (98%)	87 (64%)	32 (23%)	18 (13%)	0	1
39	DN	137/140 (98%)	88 (64%)	32 (23%)	17 (12%)	0	1
40	BO	120/122 (98%)	101 (84%)	16 (13%)	3 (2%)	4	24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	DO	120/122 (98%)	99 (82%)	17 (14%)	4 (3%)	3	18
41	BP	144/150 (96%)	77 (54%)	17 (12%)	50 (35%)	0	0
41	DP	144/150 (96%)	76 (53%)	18 (12%)	50 (35%)	0	0
42	BQ	134/141 (95%)	92 (69%)	28 (21%)	14 (10%)	0	2
42	DQ	134/141 (95%)	96 (72%)	23 (17%)	15 (11%)	0	1
43	BR	115/118 (98%)	78 (68%)	29 (25%)	8 (7%)	1	4
43	DR	115/118 (98%)	82 (71%)	24 (21%)	9 (8%)	1	4
44	BS	97/112 (87%)	49 (50%)	24 (25%)	24 (25%)	0	0
44	DS	97/112 (87%)	49 (50%)	23 (24%)	25 (26%)	0	0
45	BT	130/146 (89%)	89 (68%)	21 (16%)	20 (15%)	0	0
45	DT	130/146 (89%)	90 (69%)	21 (16%)	19 (15%)	0	1
46	BU	115/118 (98%)	77 (67%)	27 (24%)	11 (10%)	0	2
46	DU	115/118 (98%)	74 (64%)	29 (25%)	12 (10%)	0	2
47	BV	97/101 (96%)	54 (56%)	15 (16%)	28 (29%)	0	0
47	DV	97/101 (96%)	52 (54%)	18 (19%)	27 (28%)	0	0
48	BW	111/113 (98%)	88 (79%)	15 (14%)	8 (7%)	1	4
48	DW	111/113 (98%)	89 (80%)	15 (14%)	7 (6%)	1	6
49	BX	91/96 (95%)	47 (52%)	22 (24%)	22 (24%)	0	0
49	DX	91/96 (95%)	48 (53%)	22 (24%)	21 (23%)	0	0
50	BY	99/110 (90%)	45 (46%)	22 (22%)	32 (32%)	0	0
50	DY	99/110 (90%)	46 (46%)	21 (21%)	32 (32%)	0	0
51	BZ	175/206 (85%)	113 (65%)	43 (25%)	19 (11%)	0	1
51	DZ	175/206 (85%)	113 (65%)	44 (25%)	18 (10%)	0	2
All	All	11148/12060 (92%)	7735 (69%)	2187 (20%)	1226 (11%)	0	1

5 of 1226 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	24	TRP
2	AB	154	LEU
2	AB	165	VAL
2	AB	194	PRO

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	AB	202/220 (92%)	176 (87%)	26 (13%)	3	16
2	CB	202/220 (92%)	176 (87%)	26 (13%)	3	16
3	AC	160/188 (85%)	152 (95%)	8 (5%)	20	53
3	CC	160/188 (85%)	152 (95%)	8 (5%)	20	53
4	AD	180/181 (99%)	157 (87%)	23 (13%)	3	16
4	CD	180/181 (99%)	156 (87%)	24 (13%)	3	15
5	AE	115/123 (94%)	100 (87%)	15 (13%)	3	16
5	CE	115/123 (94%)	100 (87%)	15 (13%)	3	16
6	AF	90/90 (100%)	79 (88%)	11 (12%)	4	18
6	CF	90/90 (100%)	79 (88%)	11 (12%)	4	18
7	AG	126/127 (99%)	121 (96%)	5 (4%)	27	61
7	CG	126/127 (99%)	121 (96%)	5 (4%)	27	61
8	AH	119/119 (100%)	107 (90%)	12 (10%)	6	25
8	CH	119/119 (100%)	107 (90%)	12 (10%)	6	25
9	AI	98/99 (99%)	88 (90%)	10 (10%)	6	24
9	CI	98/99 (99%)	88 (90%)	10 (10%)	6	24
10	AJ	88/92 (96%)	81 (92%)	7 (8%)	10	35
10	CJ	88/92 (96%)	81 (92%)	7 (8%)	10	35
11	AK	90/99 (91%)	79 (88%)	11 (12%)	4	18
11	CK	90/99 (91%)	80 (89%)	10 (11%)	5	21
12	AL	104/111 (94%)	96 (92%)	8 (8%)	10	37
12	CL	104/111 (94%)	96 (92%)	8 (8%)	10	37
13	AM	93/101 (92%)	86 (92%)	7 (8%)	11	38
13	CM	93/101 (92%)	86 (92%)	7 (8%)	11	38
14	AN	49/50 (98%)	46 (94%)	3 (6%)	15	46
14	CN	49/50 (98%)	47 (96%)	2 (4%)	26	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
15	AO	79/80 (99%)	69 (87%)	10 (13%)	3 17
15	CO	79/80 (99%)	69 (87%)	10 (13%)	3 17
16	AP	72/74 (97%)	60 (83%)	12 (17%)	2 9
16	CP	72/74 (97%)	60 (83%)	12 (17%)	2 9
17	AQ	94/97 (97%)	91 (97%)	3 (3%)	34 67
17	CQ	94/97 (97%)	91 (97%)	3 (3%)	34 67
18	AR	61/77 (79%)	56 (92%)	5 (8%)	9 34
18	CR	61/77 (79%)	55 (90%)	6 (10%)	6 26
19	AS	69/80 (86%)	62 (90%)	7 (10%)	6 25
19	CS	69/80 (86%)	62 (90%)	7 (10%)	6 25
20	AT	76/82 (93%)	65 (86%)	11 (14%)	2 13
20	CT	76/82 (93%)	66 (87%)	10 (13%)	3 15
21	AU	19/22 (86%)	19 (100%)	0	100 100
21	CU	19/22 (86%)	19 (100%)	0	100 100
22	B0	61/67 (91%)	49 (80%)	12 (20%)	1 6
22	D0	61/67 (91%)	47 (77%)	14 (23%)	0 3
23	B1	73/83 (88%)	55 (75%)	18 (25%)	0 2
23	D1	73/83 (88%)	55 (75%)	18 (25%)	0 2
24	B2	46/67 (69%)	29 (63%)	17 (37%)	0 0
24	D2	46/67 (69%)	30 (65%)	16 (35%)	0 1
25	B3	51/52 (98%)	44 (86%)	7 (14%)	3 14
25	D3	51/52 (98%)	44 (86%)	7 (14%)	3 14
27	B5	51/52 (98%)	38 (74%)	13 (26%)	0 2
27	D5	51/52 (98%)	36 (71%)	15 (29%)	0 1
28	B6	43/52 (83%)	27 (63%)	16 (37%)	0 0
28	D6	43/52 (83%)	27 (63%)	16 (37%)	0 0
29	B7	41/42 (98%)	35 (85%)	6 (15%)	2 12
29	D7	41/42 (98%)	35 (85%)	6 (15%)	2 12
30	B8	53/55 (96%)	38 (72%)	15 (28%)	0 1
30	D8	53/55 (96%)	41 (77%)	12 (23%)	1 3
33	BD	213/218 (98%)	163 (76%)	50 (24%)	0 3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
33	DD	213/218 (98%)	162 (76%)	51 (24%)	0	3
34	BE	165/166 (99%)	126 (76%)	39 (24%)	0	3
34	DE	165/166 (99%)	126 (76%)	39 (24%)	0	3
35	BF	165/166 (99%)	132 (80%)	33 (20%)	1	5
35	DF	165/166 (99%)	135 (82%)	30 (18%)	1	7
36	BG	155/156 (99%)	132 (85%)	23 (15%)	2	12
36	DG	155/156 (99%)	131 (84%)	24 (16%)	2	11
37	BH	132/148 (89%)	107 (81%)	25 (19%)	1	7
37	DH	132/148 (89%)	108 (82%)	24 (18%)	1	7
38	BI	122/124 (98%)	103 (84%)	19 (16%)	2	11
38	DI	122/124 (98%)	103 (84%)	19 (16%)	2	11
39	BN	117/119 (98%)	93 (80%)	24 (20%)	1	5
39	DN	117/119 (98%)	92 (79%)	25 (21%)	1	4
40	BO	100/100 (100%)	75 (75%)	25 (25%)	0	2
40	DO	100/100 (100%)	74 (74%)	26 (26%)	0	2
41	BP	112/116 (97%)	63 (56%)	49 (44%)	0	0
41	DP	112/116 (97%)	65 (58%)	47 (42%)	0	0
42	BQ	106/111 (96%)	88 (83%)	18 (17%)	1	9
42	DQ	106/111 (96%)	87 (82%)	19 (18%)	1	8
43	BR	100/101 (99%)	76 (76%)	24 (24%)	0	3
43	DR	100/101 (99%)	75 (75%)	25 (25%)	0	2
44	BS	77/88 (88%)	54 (70%)	23 (30%)	0	1
44	DS	77/88 (88%)	54 (70%)	23 (30%)	0	1
45	BT	116/127 (91%)	84 (72%)	32 (28%)	0	1
45	DT	116/127 (91%)	84 (72%)	32 (28%)	0	1
46	BU	92/94 (98%)	75 (82%)	17 (18%)	1	7
46	DU	92/94 (98%)	74 (80%)	18 (20%)	1	6
47	BV	82/82 (100%)	53 (65%)	29 (35%)	0	1
47	DV	82/82 (100%)	52 (63%)	30 (37%)	0	0
48	BW	91/92 (99%)	70 (77%)	21 (23%)	0	3
48	DW	91/92 (99%)	69 (76%)	22 (24%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
49	BX	74/78 (95%)	54 (73%)	20 (27%)	0 2
49	DX	74/78 (95%)	54 (73%)	20 (27%)	0 2
50	BY	84/91 (92%)	58 (69%)	26 (31%)	0 1
50	DY	84/91 (92%)	59 (70%)	25 (30%)	0 1
51	BZ	155/179 (87%)	130 (84%)	25 (16%)	2 10
51	DZ	155/179 (87%)	130 (84%)	25 (16%)	2 10
All	All	9322/9876 (94%)	7681 (82%)	1641 (18%)	1 8

5 of 1641 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
9	CI	102	LEU
33	DD	157	ARG
50	DY	42	VAL
12	CL	85	ILE
9	CI	101	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 272 such sidechains are listed below:

Mol	Chain	Res	Type
40	DO	82	ASN
43	DR	13	HIS
48	DW	34	ASN
41	BP	9	ASN
39	BN	130	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	287 (19%)	31 (2%)
1	CA	1503/1522 (98%)	288 (19%)	31 (2%)
31	BA	2723/2787 (97%)	735 (26%)	71 (2%)
31	DA	2723/2787 (97%)	729 (26%)	70 (2%)
32	BB	118/122 (96%)	35 (29%)	1 (0%)
32	DB	118/122 (96%)	35 (29%)	0
All	All	8688/8862 (98%)	2109 (24%)	204 (2%)

5 of 2109 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C

5 of 204 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	CA	499	A
31	DA	387	U
31	DA	2662	A
1	CA	687	A
1	CA	1285	A

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 802 ligands modelled in this entry, 800 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	$\#\|Z\| > 2$
55	ZIT	BA	3351	-	54,54,54	1.42	7 (12%)	82,83,83	1.10	5 (6%)
55	ZIT	DA	3311	-	54,54,54	1.42	6 (11%)	82,83,83	1.10	5 (6%)

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
55	ZIT	BA	3351	-	-	3/72/107/107	0/3/3/3
55	ZIT	DA	3311	-	-	3/72/107/107	0/3/3/3

The worst 5 of 13 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	DA	3311	ZIT	C13-C14	3.34	1.60	1.55
55	BA	3351	ZIT	C22-C11	3.34	1.58	1.52
55	DA	3311	ZIT	C22-C11	3.32	1.58	1.52
55	BA	3351	ZIT	C13-C14	3.29	1.60	1.55
55	DA	3311	ZIT	O13-C13	2.73	1.48	1.44

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	BA	3351	ZIT	C9-N10-C11	-3.08	106.95	112.06
55	DA	3311	ZIT	C9-N10-C11	-3.05	106.99	112.06
55	DA	3311	ZIT	C7-C8-C9	2.83	116.09	112.10
55	BA	3351	ZIT	C7-C8-C9	2.82	116.09	112.10
55	DA	3311	ZIT	O6-C6-C7	2.20	113.84	108.34

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
55	BA	3351	ZIT	C12-C11-N10-C21
55	BA	3351	ZIT	C22-C11-N10-C21
55	DA	3311	ZIT	C12-C11-N10-C21
55	DA	3311	ZIT	C22-C11-N10-C21
55	BA	3351	ZIT	C12-C11-N10-C9

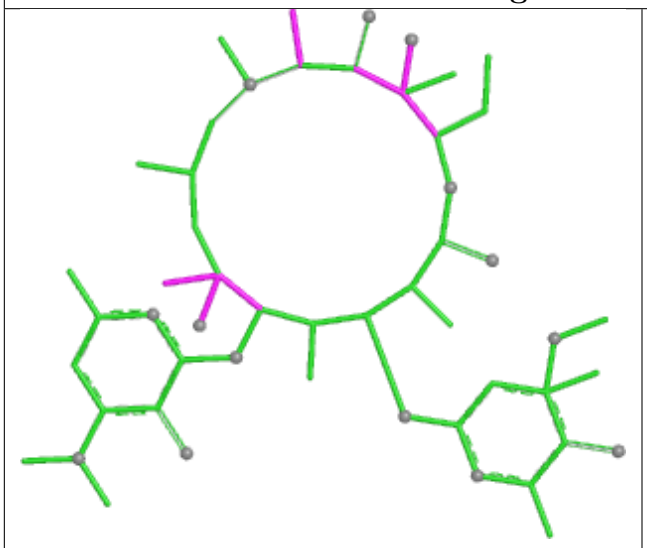
There are no ring outliers.

2 monomers are involved in 6 short contacts:

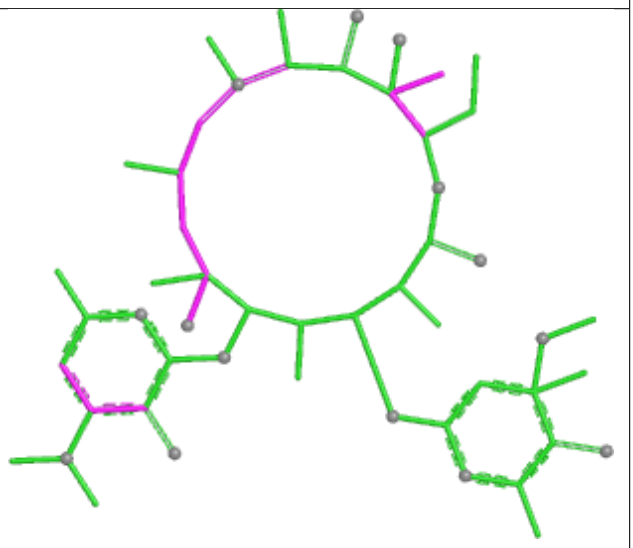
Mol	Chain	Res	Type	Clashes	Symm-Clashes
55	BA	3351	ZIT	3	0
55	DA	3311	ZIT	3	0

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 then 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.

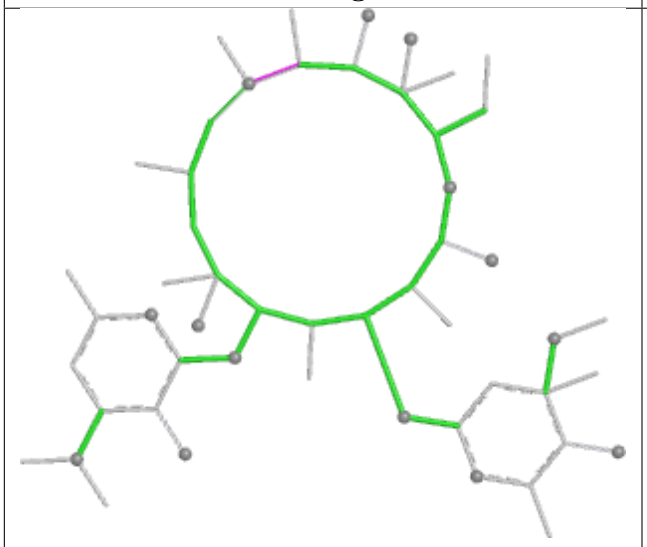
Ligand ZIT BA 3351



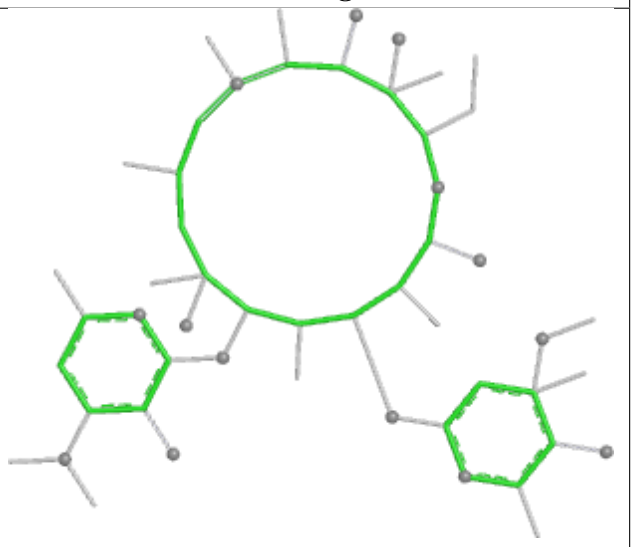
Bond lengths



Bond angles

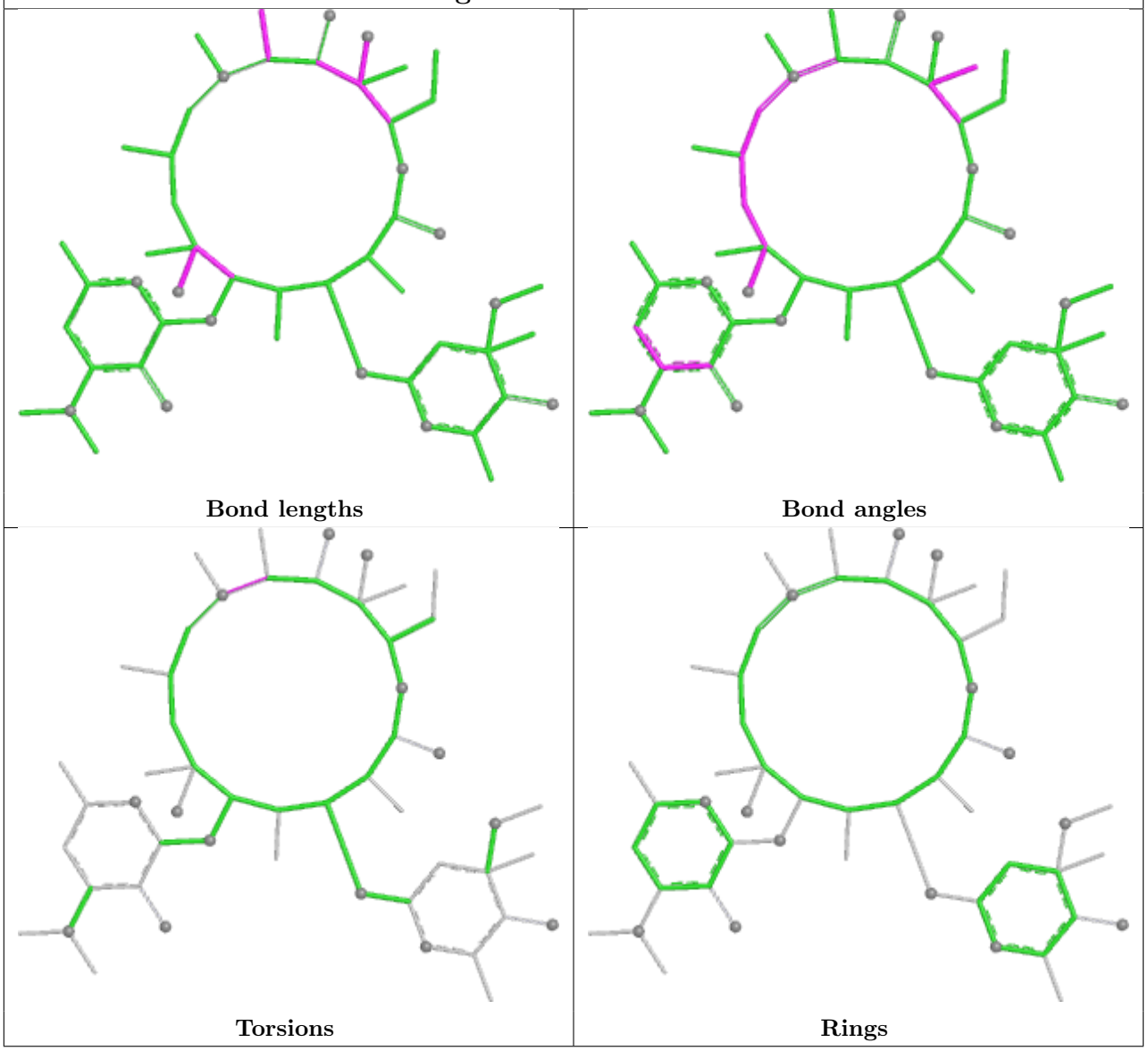


Torsions



Rings

Ligand ZIT DA 3311



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
13	CM	3
13	AM	3
36	DG	1

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Mol	Chain	Number of breaks
36	BG	1
28	B6	1
28	D6	1
9	AI	1
9	CI	1
47	BV	1
47	DV	1

The worst 5 of 14 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	CM	69:GLU	C	70:LEU	N	5.29
1	AM	69:GLU	C	70:LEU	N	5.28
1	DG	112:PRO	C	113:ARG	N	4.77
1	BG	112:PRO	C	113:ARG	N	4.76
1	AM	112:GLY	C	113:PRO	N	4.20

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	AA	1504/1522 (98%)	0.74	149 (9%)	14	8	60, 125, 191, 194	0
1	CA	1504/1522 (98%)	0.66	111 (7%)	22	12	61, 125, 191, 194	0
2	AB	235/256 (91%)	1.04	43 (18%)	4	3	107, 156, 184, 191	0
2	CB	235/256 (91%)	1.12	39 (16%)	5	3	107, 158, 185, 191	0
3	AC	207/239 (86%)	0.89	24 (11%)	11	6	115, 163, 184, 189	0
3	CC	207/239 (86%)	1.18	41 (19%)	3	3	119, 166, 184, 191	0
4	AD	208/209 (99%)	1.21	39 (18%)	4	3	83, 131, 170, 181	0
4	CD	208/209 (99%)	1.27	38 (18%)	4	3	82, 131, 168, 182	0
5	AE	151/162 (93%)	0.88	20 (13%)	8	5	83, 116, 160, 188	0
5	CE	151/162 (93%)	0.87	19 (12%)	9	5	84, 117, 162, 189	0
6	AF	101/101 (100%)	0.89	13 (12%)	9	5	85, 132, 164, 180	0
6	CF	101/101 (100%)	1.04	13 (12%)	9	5	86, 132, 165, 182	0
7	AG	155/156 (99%)	1.35	38 (24%)	2	2	140, 171, 188, 191	0
7	CG	155/156 (99%)	1.24	36 (23%)	2	2	140, 171, 188, 190	0
8	AH	138/138 (100%)	0.86	17 (12%)	9	5	85, 121, 155, 164	0
8	CH	138/138 (100%)	0.94	20 (14%)	7	4	85, 123, 156, 162	0
9	AI	127/128 (99%)	1.64	41 (32%)	1	1	142, 182, 190, 192	0
9	CI	127/128 (99%)	1.76	49 (38%)	1	1	143, 183, 190, 191	0
10	AJ	99/105 (94%)	1.76	33 (33%)	1	1	130, 176, 189, 191	0
10	CJ	99/105 (94%)	1.58	31 (31%)	1	1	130, 177, 190, 193	0
11	AK	119/129 (92%)	1.17	28 (23%)	2	2	82, 123, 164, 187	0
11	CK	119/129 (92%)	1.12	24 (20%)	3	2	84, 123, 165, 186	0
12	AL	125/135 (92%)	1.27	25 (20%)	3	2	80, 108, 163, 189	0
12	CL	125/135 (92%)	1.35	31 (24%)	2	2	82, 109, 164, 188	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
13	AM	115/126 (91%)	1.79	35 (30%)	1	1	150, 185, 190, 193	0
13	CM	115/126 (91%)	1.78	42 (36%)	1	1	149, 185, 190, 192	0
14	AN	60/61 (98%)	1.69	21 (35%)	1	1	131, 168, 185, 189	0
14	CN	60/61 (98%)	1.68	15 (25%)	2	2	132, 170, 186, 189	0
15	AO	88/89 (98%)	1.08	18 (20%)	3	2	74, 111, 157, 162	0
15	CO	88/89 (98%)	0.68	8 (9%)	16	9	74, 112, 159, 165	0
16	AP	84/88 (95%)	1.71	26 (30%)	1	1	91, 118, 161, 179	0
16	CP	84/88 (95%)	1.48	24 (28%)	1	2	89, 116, 160, 180	0
17	AQ	100/105 (95%)	1.00	18 (18%)	4	3	80, 109, 153, 163	0
17	CQ	100/105 (95%)	1.14	14 (14%)	7	4	85, 110, 153, 159	0
18	AR	70/88 (79%)	0.98	9 (12%)	9	5	93, 121, 170, 183	0
18	CR	70/88 (79%)	0.64	3 (4%)	40	23	93, 122, 171, 183	0
19	AS	79/93 (84%)	1.59	24 (30%)	1	1	142, 186, 190, 191	0
19	CS	79/93 (84%)	1.49	22 (27%)	2	2	142, 186, 191, 192	0
20	AT	99/106 (93%)	1.54	28 (28%)	1	2	84, 119, 157, 177	0
20	CT	99/106 (93%)	1.26	26 (26%)	2	2	84, 119, 157, 179	0
21	AU	25/27 (92%)	3.60	22 (88%)	0	0	143, 174, 188, 190	0
21	CU	25/27 (92%)	3.67	20 (80%)	0	0	141, 172, 188, 189	0
22	B0	85/85 (100%)	1.00	15 (17%)	4	3	49, 70, 175, 187	0
22	D0	85/85 (100%)	0.69	13 (15%)	6	4	54, 74, 173, 188	0
23	B1	89/98 (90%)	1.78	29 (32%)	1	1	50, 79, 150, 187	0
23	D1	89/98 (90%)	1.41	23 (25%)	2	2	51, 81, 151, 190	0
24	B2	51/72 (70%)	2.67	30 (58%)	0	0	59, 99, 175, 186	0
24	D2	51/72 (70%)	2.17	23 (45%)	1	1	62, 100, 175, 188	0
25	B3	60/60 (100%)	0.78	10 (16%)	5	3	46, 69, 132, 168	0
25	D3	60/60 (100%)	0.29	2 (3%)	49	29	51, 72, 136, 161	0
26	B4	32/71 (45%)	1.81	12 (37%)	1	1	133, 161, 182, 184	0
26	D4	32/71 (45%)	1.55	10 (31%)	1	1	133, 164, 182, 186	0
27	B5	58/60 (96%)	0.85	9 (15%)	6	4	34, 61, 165, 188	0
27	D5	58/60 (96%)	0.66	7 (12%)	10	6	39, 63, 163, 190	0
28	B6	45/54 (83%)	2.15	17 (37%)	1	1	49, 85, 141, 173	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
28	D6	45/54 (83%)	1.64	15 (33%)	1	1	52, 87, 142, 172	0
29	B7	49/49 (100%)	0.35	6 (12%)	10	6	36, 45, 119, 172	0
29	D7	49/49 (100%)	0.36	6 (12%)	10	6	38, 49, 120, 173	0
30	B8	64/65 (98%)	1.66	21 (32%)	1	1	46, 68, 140, 165	0
30	D8	64/65 (98%)	1.35	17 (26%)	2	2	49, 73, 141, 169	0
31	BA	2725/2787 (97%)	0.03	147 (5%)	32	18	33, 59, 153, 194	0
31	DA	2725/2787 (97%)	-0.07	100 (3%)	45	27	38, 64, 157, 194	0
32	BB	119/122 (97%)	1.33	32 (26%)	2	2	50, 101, 149, 184	0
32	DB	119/122 (97%)	1.03	23 (19%)	4	2	59, 105, 157, 184	0
33	BD	272/276 (98%)	0.32	22 (8%)	19	11	37, 62, 120, 168	0
33	DD	272/276 (98%)	0.31	15 (5%)	32	18	40, 65, 122, 165	0
34	BE	205/206 (99%)	0.68	23 (11%)	11	7	36, 65, 153, 181	0
34	DE	205/206 (99%)	0.57	24 (11%)	10	6	40, 69, 154, 182	0
35	BF	208/210 (99%)	0.64	19 (9%)	16	9	35, 77, 175, 189	0
35	DF	208/210 (99%)	0.48	13 (6%)	27	15	39, 79, 176, 188	0
36	BG	181/182 (99%)	1.82	63 (34%)	1	1	100, 152, 186, 192	0
36	DG	181/182 (99%)	1.64	60 (33%)	1	1	106, 159, 189, 191	0
37	BH	160/180 (88%)	2.01	62 (38%)	1	1	69, 111, 151, 182	0
37	DH	160/180 (88%)	1.01	20 (12%)	9	5	74, 114, 157, 185	0
38	BI	146/148 (98%)	1.59	43 (29%)	1	1	67, 152, 187, 190	0
38	DI	146/148 (98%)	1.49	36 (24%)	2	2	69, 156, 189, 191	0
39	BN	139/140 (99%)	1.20	28 (20%)	3	2	45, 75, 143, 182	0
39	DN	139/140 (99%)	0.61	14 (10%)	14	8	49, 78, 143, 183	0
40	BO	122/122 (100%)	0.23	2 (1%)	70	49	45, 67, 123, 147	0
40	DO	122/122 (100%)	0.21	7 (5%)	30	17	48, 69, 125, 149	0
41	BP	146/150 (97%)	1.58	43 (29%)	1	1	29, 93, 149, 190	0
41	DP	146/150 (97%)	1.10	36 (24%)	2	2	38, 95, 152, 188	0
42	BQ	136/141 (96%)	1.52	27 (19%)	3	2	50, 77, 147, 183	0
42	DQ	136/141 (96%)	1.05	15 (11%)	12	7	52, 79, 147, 183	0
43	BR	117/118 (99%)	0.55	12 (10%)	13	8	40, 60, 130, 139	0
43	DR	117/118 (99%)	0.41	15 (12%)	9	5	42, 62, 131, 140	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
44	BS	99/112 (88%)	1.99	44 (44%)	1	1	54, 111, 148, 165	0
44	DS	99/112 (88%)	1.55	26 (26%)	2	2	62, 113, 154, 170	0
45	BT	132/146 (90%)	1.15	27 (20%)	3	2	55, 87, 154, 181	0
45	DT	132/146 (90%)	0.90	24 (18%)	4	3	58, 90, 156, 179	0
46	BU	117/118 (99%)	0.88	19 (16%)	5	4	40, 62, 124, 176	0
46	DU	117/118 (99%)	0.78	14 (11%)	10	6	44, 67, 130, 175	0
47	BV	101/101 (100%)	2.07	47 (46%)	0	1	38, 103, 176, 188	0
47	DV	101/101 (100%)	1.08	21 (20%)	3	2	44, 109, 177, 188	0
48	BW	113/113 (100%)	0.16	7 (6%)	28	15	38, 51, 112, 179	0
48	DW	113/113 (100%)	0.02	4 (3%)	47	28	41, 54, 119, 181	0
49	BX	93/96 (96%)	1.46	26 (27%)	2	2	47, 74, 145, 179	0
49	DX	93/96 (96%)	1.24	19 (20%)	3	2	52, 76, 146, 179	0
50	BY	101/110 (91%)	2.40	54 (53%)	0	0	57, 107, 184, 192	0
50	DY	101/110 (91%)	1.87	39 (38%)	1	1	60, 108, 183, 193	0
51	BZ	177/206 (85%)	1.47	44 (24%)	2	2	68, 113, 158, 169	0
51	DZ	177/206 (85%)	1.07	32 (18%)	4	3	74, 117, 161, 168	0
All	All	20062/20922 (95%)	0.76	2910 (14%)	7	4	29, 99, 187, 194	0

The worst 5 of 2910 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
42	BQ	140	ALA	31.5
42	BQ	141	GLN	22.9
39	BN	68	GLU	15.9
42	DQ	24	GLY	15.5
42	BQ	24	GLY	14.9

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3291	1/1	0.56	0.33	86,86,86,86	0
52	MG	BA	3246	1/1	0.59	0.33	75,75,75,75	0
52	MG	DA	3126	1/1	0.62	0.35	73,73,73,73	0
52	MG	CA	1623	1/1	0.65	0.25	67,67,67,67	0
52	MG	DA	3306	1/1	0.66	0.40	87,87,87,87	0
52	MG	AA	1604	1/1	0.67	0.34	95,95,95,95	0
52	MG	BA	3312	1/1	0.68	0.33	87,87,87,87	0
52	MG	AA	1646	1/1	0.69	0.50	82,82,82,82	0
52	MG	DA	3302	1/1	0.70	0.50	86,86,86,86	0
52	MG	DA	3280	1/1	0.71	0.43	77,77,77,77	0
52	MG	DA	3264	1/1	0.71	0.39	80,80,80,80	0
52	MG	DA	3261	1/1	0.72	0.32	95,95,95,95	0
52	MG	DA	3255	1/1	0.72	0.23	75,75,75,75	0
52	MG	BA	3303	1/1	0.73	0.27	68,68,68,68	0
52	MG	DA	3298	1/1	0.73	0.31	71,71,71,71	0
52	MG	DA	3191	1/1	0.73	0.32	91,91,91,91	0
52	MG	CA	1633	1/1	0.73	0.57	87,87,87,87	0
52	MG	AA	1640	1/1	0.74	0.34	83,83,83,83	0
52	MG	DA	3179	1/1	0.74	0.47	77,77,77,77	0
52	MG	CA	1647	1/1	0.74	0.24	84,84,84,84	0
52	MG	DA	3223	1/1	0.74	0.23	65,65,65,65	0
52	MG	CA	1611	1/1	0.75	0.42	81,81,81,81	0
52	MG	DA	3216	1/1	0.75	0.56	85,85,85,85	0
52	MG	DA	3219	1/1	0.75	0.31	75,75,75,75	0
52	MG	CA	1646	1/1	0.76	0.24	80,80,80,80	0
52	MG	DA	3245	1/1	0.76	0.25	78,78,78,78	0
52	MG	DF	301	1/1	0.76	0.27	92,92,92,92	0
52	MG	AA	1627	1/1	0.77	0.25	66,66,66,66	0
52	MG	AA	1641	1/1	0.77	0.17	69,69,69,69	0
52	MG	DA	3146	1/1	0.77	0.26	69,69,69,69	0
54	K	DA	3310	1/1	0.77	0.40	106,106,106,106	0
52	MG	DA	3105	1/1	0.78	0.36	47,47,47,47	0
52	MG	CA	1641	1/1	0.78	0.61	87,87,87,87	0
52	MG	DA	3240	1/1	0.78	0.25	89,89,89,89	0
52	MG	CA	1632	1/1	0.78	0.34	79,79,79,79	0
52	MG	AA	1622	1/1	0.78	0.46	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3308	1/1	0.78	0.31	81,81,81,81	0
52	MG	DA	3020	1/1	0.78	0.29	64,64,64,64	0
52	MG	DA	3102	1/1	0.78	0.27	80,80,80,80	0
52	MG	DA	3289	1/1	0.79	0.41	92,92,92,92	0
52	MG	AA	1645	1/1	0.79	0.28	81,81,81,81	0
52	MG	CA	1620	1/1	0.79	0.29	66,66,66,66	0
52	MG	DA	3250	1/1	0.79	0.17	75,75,75,75	0
52	MG	AA	1633	1/1	0.79	0.17	81,81,81,81	0
52	MG	BA	3097	1/1	0.79	0.15	70,70,70,70	0
52	MG	BA	3330	1/1	0.79	0.46	71,71,71,71	0
52	MG	CA	1607	1/1	0.79	0.36	82,82,82,82	0
52	MG	CA	1630	1/1	0.80	0.30	77,77,77,77	0
52	MG	DA	3294	1/1	0.80	0.15	67,67,67,67	0
52	MG	DA	3001	1/1	0.80	0.32	76,76,76,76	0
52	MG	DA	3247	1/1	0.80	0.42	87,87,87,87	0
52	MG	CA	1609	1/1	0.81	0.14	94,94,94,94	0
52	MG	BA	3031	1/1	0.81	0.31	77,77,77,77	0
52	MG	CA	1637	1/1	0.81	0.37	80,80,80,80	0
52	MG	CA	1638	1/1	0.81	0.28	71,71,71,71	0
52	MG	BA	3148	1/1	0.81	0.24	58,58,58,58	0
52	MG	BA	3082	1/1	0.81	0.34	49,49,49,49	0
52	MG	BA	3302	1/1	0.81	0.22	72,72,72,72	0
52	MG	BA	3076	1/1	0.82	0.25	43,43,43,43	0
52	MG	DA	3246	1/1	0.82	0.31	87,87,87,87	0
52	MG	DA	3211	1/1	0.82	0.31	79,79,79,79	0
52	MG	DA	3125	1/1	0.82	0.42	58,58,58,58	0
52	MG	BA	3307	1/1	0.82	0.41	76,76,76,76	0
52	MG	DA	3222	1/1	0.82	0.30	67,67,67,67	0
52	MG	AA	1636	1/1	0.82	0.25	63,63,63,63	0
52	MG	DA	3266	1/1	0.82	0.28	75,75,75,75	0
54	K	BA	3350	1/1	0.82	0.34	95,95,95,95	0
52	MG	AA	1619	1/1	0.82	0.31	56,56,56,56	0
52	MG	DA	3111	1/1	0.83	0.38	71,71,71,71	0
52	MG	DA	3124	1/1	0.83	0.41	83,83,83,83	0
52	MG	BA	3341	1/1	0.83	0.23	63,63,63,63	0
52	MG	BA	3092	1/1	0.83	0.50	52,52,52,52	0
52	MG	BA	3195	1/1	0.83	0.48	58,58,58,58	0
52	MG	BA	3214	1/1	0.83	0.42	66,66,66,66	0
52	MG	DA	3037	1/1	0.83	0.25	74,74,74,74	0
52	MG	DA	3207	1/1	0.83	0.38	78,78,78,78	0
52	MG	DA	3062	1/1	0.83	0.33	65,65,65,65	0
52	MG	BA	3332	1/1	0.83	0.26	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3336	1/1	0.83	0.32	65,65,65,65	0
52	MG	BA	3039	1/1	0.84	0.37	60,60,60,60	0
52	MG	DA	3115	1/1	0.84	0.42	72,72,72,72	0
52	MG	AA	1651	1/1	0.84	0.25	75,75,75,75	0
52	MG	BA	3249	1/1	0.84	0.15	40,40,40,40	0
52	MG	BA	3259	1/1	0.84	0.30	46,46,46,46	0
52	MG	CA	1605	1/1	0.84	0.36	61,61,61,61	0
52	MG	DA	3265	1/1	0.84	0.35	79,79,79,79	0
52	MG	BA	3298	1/1	0.84	0.27	61,61,61,61	0
52	MG	DA	3190	1/1	0.84	0.31	63,63,63,63	0
52	MG	DA	3288	1/1	0.84	0.25	72,72,72,72	0
52	MG	AA	1638	1/1	0.84	0.18	82,82,82,82	0
52	MG	BA	3157	1/1	0.84	0.41	74,74,74,74	0
52	MG	DA	3208	1/1	0.84	0.39	62,62,62,62	0
52	MG	BA	3190	1/1	0.84	0.21	53,53,53,53	0
52	MG	DA	3029	1/1	0.84	0.23	87,87,87,87	0
52	MG	BA	3087	1/1	0.84	0.23	58,58,58,58	0
52	MG	CA	1625	1/1	0.84	0.40	74,74,74,74	0
52	MG	DA	3100	1/1	0.84	0.24	50,50,50,50	0
52	MG	CA	1628	1/1	0.84	0.34	75,75,75,75	0
52	MG	BA	3321	1/1	0.84	0.35	75,75,75,75	0
52	MG	DA	3178	1/1	0.85	0.23	65,65,65,65	0
52	MG	AA	1650	1/1	0.85	0.21	68,68,68,68	0
52	MG	DA	3070	1/1	0.85	0.47	74,74,74,74	0
52	MG	BA	3229	1/1	0.85	0.20	50,50,50,50	0
52	MG	CA	1644	1/1	0.85	0.35	74,74,74,74	0
52	MG	DA	3279	1/1	0.85	0.21	64,64,64,64	0
52	MG	BA	3235	1/1	0.85	0.34	72,72,72,72	0
52	MG	DA	3209	1/1	0.85	0.23	59,59,59,59	0
52	MG	BA	3180	1/1	0.85	0.30	64,64,64,64	0
52	MG	BA	3121	1/1	0.85	0.31	57,57,57,57	0
52	MG	DA	3013	1/1	0.85	0.46	77,77,77,77	0
52	MG	BA	3074	1/1	0.85	0.31	36,36,36,36	0
52	MG	BA	3289	1/1	0.85	0.23	55,55,55,55	0
52	MG	CA	1616	1/1	0.85	0.30	73,73,73,73	0
52	MG	DA	3149	1/1	0.85	0.19	55,55,55,55	0
52	MG	DA	3309	1/1	0.85	0.29	84,84,84,84	0
52	MG	DA	3153	1/1	0.85	0.29	59,59,59,59	0
52	MG	DA	3166	1/1	0.85	0.28	46,46,46,46	0
52	MG	DA	3175	1/1	0.85	0.48	67,67,67,67	0
52	MG	DA	3079	1/1	0.86	0.24	59,59,59,59	0
52	MG	DA	3249	1/1	0.86	0.41	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3081	1/1	0.86	0.27	43,43,43,43	0
52	MG	CA	1645	1/1	0.86	0.19	97,97,97,97	0
52	MG	BA	3263	1/1	0.86	0.42	62,62,62,62	0
52	MG	BA	3280	1/1	0.86	0.35	75,75,75,75	0
52	MG	DA	3198	1/1	0.86	0.51	70,70,70,70	0
52	MG	BA	3320	1/1	0.86	0.15	54,54,54,54	0
52	MG	DA	3267	1/1	0.86	0.42	72,72,72,72	0
52	MG	AA	1644	1/1	0.86	0.31	99,99,99,99	0
52	MG	CA	1636	1/1	0.86	0.38	79,79,79,79	0
52	MG	DA	3027	1/1	0.86	0.32	61,61,61,61	0
52	MG	AA	1603	1/1	0.86	0.32	62,62,62,62	0
52	MG	DA	3145	1/1	0.86	0.43	88,88,88,88	0
52	MG	AA	1643	1/1	0.86	0.13	78,78,78,78	0
52	MG	BA	3230	1/1	0.86	0.31	38,38,38,38	0
52	MG	DA	3300	1/1	0.86	0.13	75,75,75,75	0
52	MG	DA	3233	1/1	0.86	0.32	68,68,68,68	0
52	MG	DA	3305	1/1	0.86	0.36	76,76,76,76	0
52	MG	DA	3235	1/1	0.86	0.32	79,79,79,79	0
52	MG	DA	3236	1/1	0.86	0.33	67,67,67,67	0
52	MG	DA	3067	1/1	0.86	0.29	81,81,81,81	0
52	MG	DA	3243	1/1	0.86	0.34	70,70,70,70	0
52	MG	BA	3306	1/1	0.86	0.11	56,56,56,56	0
52	MG	DA	3167	1/1	0.86	0.25	48,48,48,48	0
52	MG	DA	3164	1/1	0.87	0.18	71,71,71,71	0
52	MG	BA	3192	1/1	0.87	0.35	58,58,58,58	0
52	MG	BA	3080	1/1	0.87	0.32	34,34,34,34	0
52	MG	BA	3334	1/1	0.87	0.27	53,53,53,53	0
52	MG	AA	1637	1/1	0.87	0.33	69,69,69,69	0
52	MG	CA	1634	1/1	0.87	0.51	87,87,87,87	0
52	MG	DA	3189	1/1	0.87	0.35	63,63,63,63	0
52	MG	BA	3073	1/1	0.87	0.29	53,53,53,53	0
52	MG	BA	3300	1/1	0.87	0.25	59,59,59,59	0
52	MG	DA	3090	1/1	0.87	0.34	76,76,76,76	0
52	MG	CA	1606	1/1	0.87	0.40	72,72,72,72	0
52	MG	DA	3282	1/1	0.87	0.28	62,62,62,62	0
52	MG	DA	3284	1/1	0.87	0.33	65,65,65,65	0
52	MG	CA	1640	1/1	0.87	0.23	68,68,68,68	0
52	MG	BA	3162	1/1	0.87	0.15	47,47,47,47	0
52	MG	BA	3232	1/1	0.87	0.31	70,70,70,70	0
52	MG	DA	3292	1/1	0.87	0.36	75,75,75,75	0
52	MG	BA	3178	1/1	0.87	0.28	78,78,78,78	0
52	MG	DA	3120	1/1	0.87	0.31	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3299	1/1	0.87	0.20	66,66,66,66	0
52	MG	BA	3238	1/1	0.87	0.19	49,49,49,49	0
52	MG	CA	1618	1/1	0.87	0.27	62,62,62,62	0
52	MG	DA	3303	1/1	0.87	0.32	49,49,49,49	0
52	MG	D5	102	1/1	0.87	0.28	79,79,79,79	0
52	MG	DA	3135	1/1	0.87	0.24	71,71,71,71	0
52	MG	CA	1619	1/1	0.87	0.35	75,75,75,75	0
52	MG	AA	1632	1/1	0.87	0.46	72,72,72,72	0
52	MG	BA	3181	1/1	0.87	0.21	51,51,51,51	0
52	MG	DA	3152	1/1	0.87	0.26	43,43,43,43	0
52	MG	AA	1639	1/1	0.87	0.27	95,95,95,95	0
52	MG	DA	3158	1/1	0.88	0.23	61,61,61,61	0
52	MG	DA	3160	1/1	0.88	0.14	59,59,59,59	0
52	MG	BA	3349	1/1	0.88	0.23	61,61,61,61	0
52	MG	DA	3075	1/1	0.88	0.33	55,55,55,55	0
52	MG	DA	3078	1/1	0.88	0.29	46,46,46,46	0
52	MG	BQ	202	1/1	0.88	0.28	59,59,59,59	0
52	MG	CA	1626	1/1	0.88	0.28	78,78,78,78	0
52	MG	DA	3089	1/1	0.88	0.37	47,47,47,47	0
52	MG	DA	3273	1/1	0.88	0.35	75,75,75,75	0
52	MG	DA	3184	1/1	0.88	0.32	63,63,63,63	0
52	MG	BA	3027	1/1	0.88	0.34	42,42,42,42	0
52	MG	DA	3281	1/1	0.88	0.11	30,30,30,30	0
52	MG	DA	3094	1/1	0.88	0.32	56,56,56,56	0
52	MG	BA	3292	1/1	0.88	0.30	60,60,60,60	0
52	MG	DA	3285	1/1	0.88	0.37	66,66,66,66	0
52	MG	D7	101	1/1	0.88	0.22	62,62,62,62	0
52	MG	BA	3240	1/1	0.88	0.34	60,60,60,60	0
52	MG	DA	3110	1/1	0.88	0.34	73,73,73,73	0
52	MG	AA	1613	1/1	0.88	0.19	70,70,70,70	0
52	MG	DA	3114	1/1	0.88	0.33	65,65,65,65	0
52	MG	BA	3034	1/1	0.88	0.29	62,62,62,62	0
52	MG	DA	3025	1/1	0.88	0.40	50,50,50,50	0
52	MG	CA	1615	1/1	0.88	0.38	67,67,67,67	0
52	MG	BA	3095	1/1	0.88	0.32	38,38,38,38	0
52	MG	AA	1649	1/1	0.88	0.20	86,86,86,86	0
52	MG	DA	3129	1/1	0.88	0.19	87,87,87,87	0
52	MG	DA	3039	1/1	0.88	0.25	43,43,43,43	0
52	MG	DA	3043	1/1	0.88	0.28	35,35,35,35	0
52	MG	DA	3057	1/1	0.88	0.29	40,40,40,40	0
52	MG	BA	3237	1/1	0.88	0.18	61,61,61,61	0
52	MG	DA	3066	1/1	0.88	0.25	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3346	1/1	0.88	0.34	80,80,80,80	0
52	MG	BA	3272	1/1	0.89	0.22	51,51,51,51	0
52	MG	DA	3084	1/1	0.89	0.17	54,54,54,54	0
52	MG	DA	3248	1/1	0.89	0.37	74,74,74,74	0
52	MG	DA	3087	1/1	0.89	0.29	55,55,55,55	0
52	MG	CA	1622	1/1	0.89	0.16	78,78,78,78	0
52	MG	BA	3274	1/1	0.89	0.25	81,81,81,81	0
52	MG	DA	3172	1/1	0.89	0.40	64,64,64,64	0
52	MG	DA	3173	1/1	0.89	0.25	65,65,65,65	0
52	MG	BA	3279	1/1	0.89	0.20	50,50,50,50	0
52	MG	DA	3176	1/1	0.89	0.19	78,78,78,78	0
52	MG	BA	3151	1/1	0.89	0.27	74,74,74,74	0
52	MG	DA	3270	1/1	0.89	0.42	65,65,65,65	0
52	MG	DA	3024	1/1	0.89	0.27	61,61,61,61	0
52	MG	DA	3182	1/1	0.89	0.14	55,55,55,55	0
52	MG	BA	3284	1/1	0.89	0.27	71,71,71,71	0
52	MG	BA	3120	1/1	0.89	0.30	52,52,52,52	0
52	MG	BA	3182	1/1	0.89	0.22	68,68,68,68	0
52	MG	DA	3113	1/1	0.89	0.31	62,62,62,62	0
52	MG	BA	3060	1/1	0.89	0.24	40,40,40,40	0
52	MG	DA	3203	1/1	0.89	0.38	67,67,67,67	0
52	MG	CA	1602	1/1	0.89	0.36	70,70,70,70	0
52	MG	DA	3040	1/1	0.89	0.19	43,43,43,43	0
52	MG	BA	3166	1/1	0.89	0.27	39,39,39,39	0
52	MG	BA	3170	1/1	0.89	0.18	69,69,69,69	0
52	MG	DA	3297	1/1	0.89	0.32	74,74,74,74	0
52	MG	BA	3197	1/1	0.89	0.25	52,52,52,52	0
52	MG	BA	3200	1/1	0.89	0.42	59,59,59,59	0
52	MG	BA	3254	1/1	0.89	0.18	53,53,53,53	0
52	MG	BA	3310	1/1	0.89	0.14	47,47,47,47	0
52	MG	DA	3226	1/1	0.89	0.29	64,64,64,64	0
52	MG	DA	3230	1/1	0.89	0.18	56,56,56,56	0
52	MG	BA	3176	1/1	0.89	0.28	48,48,48,48	0
52	MG	DA	3307	1/1	0.89	0.34	80,80,80,80	0
52	MG	DA	3076	1/1	0.89	0.31	55,55,55,55	0
52	MG	DA	3150	1/1	0.89	0.54	77,77,77,77	0
52	MG	BA	3110	1/1	0.89	0.45	45,45,45,45	0
52	MG	BA	3270	1/1	0.89	0.13	50,50,50,50	0
52	MG	DA	3155	1/1	0.89	0.25	62,62,62,62	0
52	MG	BA	3122	1/1	0.90	0.28	40,40,40,40	0
52	MG	BA	3126	1/1	0.90	0.31	50,50,50,50	0
52	MG	BA	3137	1/1	0.90	0.27	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	CA	1601	1/1	0.90	0.29	83,83,83,83	0
52	MG	BA	3275	1/1	0.90	0.27	47,47,47,47	0
52	MG	DA	3117	1/1	0.90	0.08	59,59,59,59	0
52	MG	BA	3196	1/1	0.90	0.25	65,65,65,65	0
52	MG	BA	3138	1/1	0.90	0.18	74,74,74,74	0
52	MG	BA	3140	1/1	0.90	0.23	40,40,40,40	0
52	MG	BA	3288	1/1	0.90	0.24	72,72,72,72	0
52	MG	DA	3127	1/1	0.90	0.29	35,35,35,35	0
52	MG	BA	3209	1/1	0.90	0.31	56,56,56,56	0
52	MG	DA	3134	1/1	0.90	0.26	47,47,47,47	0
52	MG	CA	1614	1/1	0.90	0.33	76,76,76,76	0
52	MG	DA	3141	1/1	0.90	0.36	61,61,61,61	0
52	MG	DA	3143	1/1	0.90	0.28	57,57,57,57	0
52	MG	DA	3031	1/1	0.90	0.22	47,47,47,47	0
52	MG	AA	1611	1/1	0.90	0.21	75,75,75,75	0
52	MG	DA	3251	1/1	0.90	0.38	63,63,63,63	0
52	MG	BA	3295	1/1	0.90	0.24	70,70,70,70	0
52	MG	DA	3257	1/1	0.90	0.35	63,63,63,63	0
52	MG	DA	3260	1/1	0.90	0.42	73,73,73,73	0
52	MG	BA	3093	1/1	0.90	0.36	43,43,43,43	0
52	MG	DA	3262	1/1	0.90	0.26	77,77,77,77	0
52	MG	DA	3042	1/1	0.90	0.23	47,47,47,47	0
52	MG	BA	3058	1/1	0.90	0.28	39,39,39,39	0
52	MG	DA	3154	1/1	0.90	0.39	62,62,62,62	0
52	MG	AA	1634	1/1	0.90	0.30	58,58,58,58	0
52	MG	BA	3103	1/1	0.90	0.16	42,42,42,42	0
52	MG	DA	3159	1/1	0.90	0.24	61,61,61,61	0
52	MG	DA	3275	1/1	0.90	0.26	62,62,62,62	0
52	MG	BA	3104	1/1	0.90	0.28	37,37,37,37	0
52	MG	BA	3171	1/1	0.90	0.32	62,62,62,62	0
52	MG	BA	3081	1/1	0.90	0.16	37,37,37,37	0
52	MG	DA	3074	1/1	0.90	0.24	53,53,53,53	0
52	MG	DA	3168	1/1	0.90	0.09	53,53,53,53	0
52	MG	BA	3245	1/1	0.90	0.30	45,45,45,45	0
52	MG	CA	1629	1/1	0.90	0.16	82,82,82,82	0
52	MG	BA	3319	1/1	0.90	0.17	40,40,40,40	0
52	MG	BA	3114	1/1	0.90	0.27	56,56,56,56	0
52	MG	BA	3179	1/1	0.90	0.26	59,59,59,59	0
52	MG	BA	3252	1/1	0.90	0.22	50,50,50,50	0
52	MG	DA	3085	1/1	0.90	0.26	54,54,54,54	0
52	MG	BA	3253	1/1	0.90	0.19	51,51,51,51	0
52	MG	DA	3188	1/1	0.90	0.17	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3116	1/1	0.90	0.23	51,51,51,51	0
52	MG	BA	3066	1/1	0.90	0.26	43,43,43,43	0
52	MG	BA	3338	1/1	0.90	0.22	73,73,73,73	0
52	MG	DA	3197	1/1	0.90	0.24	75,75,75,75	0
52	MG	DA	3098	1/1	0.90	0.14	49,49,49,49	0
52	MG	DA	3201	1/1	0.90	0.22	59,59,59,59	0
52	MG	AA	1614	1/1	0.90	0.12	77,77,77,77	0
52	MG	DA	3205	1/1	0.90	0.40	54,54,54,54	0
52	MG	DD	301	1/1	0.90	0.08	35,35,35,35	0
52	MG	BA	3343	1/1	0.90	0.25	58,58,58,58	0
52	MG	BA	3345	1/1	0.90	0.28	60,60,60,60	0
52	MG	DA	3109	1/1	0.90	0.46	71,71,71,71	0
52	MG	DA	3142	1/1	0.91	0.34	41,41,41,41	0
52	MG	DA	3231	1/1	0.91	0.25	79,79,79,79	0
52	MG	BA	3158	1/1	0.91	0.20	49,49,49,49	0
52	MG	BA	3159	1/1	0.91	0.26	45,45,45,45	0
52	MG	DA	3072	1/1	0.91	0.23	46,46,46,46	0
52	MG	CA	1603	1/1	0.91	0.35	63,63,63,63	0
52	MG	DA	3242	1/1	0.91	0.14	69,69,69,69	0
52	MG	AA	1618	1/1	0.91	0.43	72,72,72,72	0
52	MG	DA	3244	1/1	0.91	0.23	86,86,86,86	0
52	MG	BA	3009	1/1	0.91	0.34	38,38,38,38	0
52	MG	BA	3198	1/1	0.91	0.24	44,44,44,44	0
52	MG	BA	3101	1/1	0.91	0.24	39,39,39,39	0
52	MG	BA	3315	1/1	0.91	0.33	69,69,69,69	0
52	MG	D5	101	1/1	0.91	0.31	47,47,47,47	0
52	MG	CA	1613	1/1	0.91	0.27	80,80,80,80	0
52	MG	BA	3316	1/1	0.91	0.17	56,56,56,56	0
52	MG	DA	3163	1/1	0.91	0.29	68,68,68,68	0
52	MG	BA	3204	1/1	0.91	0.23	46,46,46,46	0
52	MG	DA	3005	1/1	0.91	0.19	73,73,73,73	0
52	MG	DA	3091	1/1	0.91	0.32	41,41,41,41	0
52	MG	DA	3093	1/1	0.91	0.30	64,64,64,64	0
52	MG	DA	3169	1/1	0.91	0.41	51,51,51,51	0
52	MG	AA	1625	1/1	0.91	0.18	73,73,73,73	0
52	MG	DA	3095	1/1	0.91	0.35	53,53,53,53	0
52	MG	DA	3019	1/1	0.91	0.36	42,42,42,42	0
52	MG	BA	3174	1/1	0.91	0.41	57,57,57,57	0
52	MG	BA	3219	1/1	0.91	0.06	38,38,38,38	0
52	MG	DA	3274	1/1	0.91	0.17	63,63,63,63	0
52	MG	DA	3104	1/1	0.91	0.45	48,48,48,48	0
52	MG	DA	3277	1/1	0.91	0.28	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3278	1/1	0.91	0.31	68,68,68,68	0
52	MG	BA	3067	1/1	0.91	0.29	37,37,37,37	0
52	MG	BA	3071	1/1	0.91	0.32	47,47,47,47	0
52	MG	BA	3112	1/1	0.91	0.16	43,43,43,43	0
52	MG	BA	3049	1/1	0.91	0.37	41,41,41,41	0
52	MG	DA	3036	1/1	0.91	0.32	39,39,39,39	0
52	MG	BA	3149	1/1	0.91	0.17	51,51,51,51	0
52	MG	DA	3287	1/1	0.91	0.09	51,51,51,51	0
52	MG	DA	3195	1/1	0.91	0.29	56,56,56,56	0
52	MG	BA	3057	1/1	0.91	0.22	44,44,44,44	0
52	MG	BA	3344	1/1	0.91	0.29	48,48,48,48	0
52	MG	DA	3041	1/1	0.91	0.15	37,37,37,37	0
52	MG	BA	3186	1/1	0.91	0.16	66,66,66,66	0
52	MG	DA	3295	1/1	0.91	0.19	88,88,88,88	0
52	MG	DA	3296	1/1	0.91	0.13	60,60,60,60	0
52	MG	DA	3204	1/1	0.91	0.29	45,45,45,45	0
52	MG	BA	3189	1/1	0.91	0.27	45,45,45,45	0
52	MG	DA	3048	1/1	0.91	0.18	40,40,40,40	0
52	MG	DA	3056	1/1	0.91	0.28	60,60,60,60	0
52	MG	BA	3119	1/1	0.91	0.23	52,52,52,52	0
52	MG	DA	3132	1/1	0.91	0.30	43,43,43,43	0
52	MG	DA	3212	1/1	0.91	0.26	68,68,68,68	0
52	MG	DA	3133	1/1	0.91	0.36	53,53,53,53	0
52	MG	DA	3061	1/1	0.91	0.28	57,57,57,57	0
52	MG	DA	3221	1/1	0.91	0.23	53,53,53,53	0
52	MG	BB	205	1/1	0.91	0.19	78,78,78,78	0
52	MG	DB	202	1/1	0.91	0.28	63,63,63,63	0
52	MG	DA	3140	1/1	0.91	0.20	49,49,49,49	0
52	MG	DA	3225	1/1	0.91	0.12	54,54,54,54	0
52	MG	DR	201	1/1	0.91	0.09	43,43,43,43	0
52	MG	BA	3301	1/1	0.91	0.24	57,57,57,57	0
52	MG	DA	3227	1/1	0.91	0.24	74,74,74,74	0
52	MG	DA	3254	1/1	0.92	0.12	65,65,65,65	0
52	MG	DA	3185	1/1	0.92	0.26	61,61,61,61	0
52	MG	BA	3293	1/1	0.92	0.26	55,55,55,55	0
52	MG	DA	3259	1/1	0.92	0.39	74,74,74,74	0
52	MG	DA	3069	1/1	0.92	0.36	51,51,51,51	0
52	MG	BA	3202	1/1	0.92	0.19	41,41,41,41	0
52	MG	BA	3132	1/1	0.92	0.27	55,55,55,55	0
52	MG	BA	3339	1/1	0.92	0.21	41,41,41,41	0
52	MG	DA	3196	1/1	0.92	0.19	51,51,51,51	0
52	MG	BA	3160	1/1	0.92	0.27	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	CA	1621	1/1	0.92	0.22	68,68,68,68	0
52	MG	DA	3268	1/1	0.92	0.54	81,81,81,81	0
52	MG	DA	3077	1/1	0.92	0.40	49,49,49,49	0
52	MG	DA	3017	1/1	0.92	0.16	47,47,47,47	0
52	MG	BA	3183	1/1	0.92	0.24	72,72,72,72	0
52	MG	BA	3184	1/1	0.92	0.24	50,50,50,50	0
52	MG	DA	3083	1/1	0.92	0.24	47,47,47,47	0
52	MG	CA	1624	1/1	0.92	0.31	65,65,65,65	0
52	MG	BA	3223	1/1	0.92	0.29	36,36,36,36	0
52	MG	DA	3026	1/1	0.92	0.41	43,43,43,43	0
52	MG	DA	3147	1/1	0.92	0.12	63,63,63,63	0
52	MG	BA	3304	1/1	0.92	0.49	86,86,86,86	0
52	MG	DA	3283	1/1	0.92	0.49	72,72,72,72	0
52	MG	DA	3218	1/1	0.92	0.34	78,78,78,78	0
52	MG	BA	3134	1/1	0.92	0.23	46,46,46,46	0
52	MG	AA	1626	1/1	0.92	0.33	76,76,76,76	0
52	MG	DA	3092	1/1	0.92	0.16	61,61,61,61	0
52	MG	DA	3032	1/1	0.92	0.36	69,69,69,69	0
52	MG	BA	3309	1/1	0.92	0.28	61,61,61,61	0
52	MG	AA	1608	1/1	0.92	0.26	54,54,54,54	0
52	MG	BA	3233	1/1	0.92	0.11	63,63,63,63	0
52	MG	DA	3228	1/1	0.92	0.10	60,60,60,60	0
52	MG	DA	3229	1/1	0.92	0.07	45,45,45,45	0
52	MG	BA	3277	1/1	0.92	0.36	62,62,62,62	0
52	MG	DA	3161	1/1	0.92	0.33	72,72,72,72	0
52	MG	CA	1604	1/1	0.92	0.21	86,86,86,86	0
52	MG	AA	1629	1/1	0.92	0.30	67,67,67,67	0
52	MG	BA	3007	1/1	0.92	0.26	48,48,48,48	0
52	MG	DA	3238	1/1	0.92	0.37	73,73,73,73	0
52	MG	DA	3108	1/1	0.92	0.18	48,48,48,48	0
52	MG	BA	3041	1/1	0.92	0.23	29,29,29,29	0
52	MG	BA	3068	1/1	0.92	0.26	54,54,54,54	0
52	MG	CA	1610	1/1	0.92	0.12	61,61,61,61	0
52	MG	DA	3112	1/1	0.92	0.28	68,68,68,68	0
52	MG	DA	3058	1/1	0.92	0.18	58,58,58,58	0
52	MG	DA	3059	1/1	0.92	0.23	53,53,53,53	0
52	MG	BA	3329	1/1	0.92	0.26	68,68,68,68	0
52	MG	DA	3116	1/1	0.92	0.24	41,41,41,41	0
52	MG	DX	101	1/1	0.92	0.12	77,77,77,77	0
52	MG	BA	3085	1/1	0.92	0.21	40,40,40,40	0
52	MG	AA	1616	1/1	0.92	0.19	77,77,77,77	0
52	MG	DA	3014	1/1	0.93	0.26	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3150	1/1	0.93	0.36	50,50,50,50	0
52	MG	AA	1615	1/1	0.93	0.34	76,76,76,76	0
52	MG	DA	3162	1/1	0.93	0.26	69,69,69,69	0
52	MG	BA	3152	1/1	0.93	0.33	61,61,61,61	0
52	MG	DA	3023	1/1	0.93	0.13	47,47,47,47	0
52	MG	CA	1617	1/1	0.93	0.27	61,61,61,61	0
52	MG	BA	3324	1/1	0.93	0.25	59,59,59,59	0
52	MG	BA	3328	1/1	0.93	0.20	65,65,65,65	0
52	MG	B5	102	1/1	0.93	0.20	56,56,56,56	0
52	MG	BA	3187	1/1	0.93	0.28	42,42,42,42	0
52	MG	DA	3096	1/1	0.93	0.19	45,45,45,45	0
52	MG	BA	3282	1/1	0.93	0.18	67,67,67,67	0
52	MG	BA	3283	1/1	0.93	0.14	53,53,53,53	0
52	MG	DA	3035	1/1	0.93	0.38	54,54,54,54	0
52	MG	BA	3234	1/1	0.93	0.26	45,45,45,45	0
52	MG	BA	3285	1/1	0.93	0.31	57,57,57,57	0
52	MG	DA	3106	1/1	0.93	0.32	76,76,76,76	0
52	MG	DA	3038	1/1	0.93	0.25	48,48,48,48	0
52	MG	BA	3005	1/1	0.93	0.22	47,47,47,47	0
52	MG	BA	3096	1/1	0.93	0.21	55,55,55,55	0
52	MG	BA	3047	1/1	0.93	0.23	21,21,21,21	0
52	MG	BA	3129	1/1	0.93	0.07	18,18,18,18	0
52	MG	BA	3244	1/1	0.93	0.21	40,40,40,40	0
52	MG	DA	3045	1/1	0.93	0.31	39,39,39,39	0
52	MG	DA	3047	1/1	0.93	0.29	45,45,45,45	0
52	MG	BA	3296	1/1	0.93	0.41	67,67,67,67	0
52	MG	DA	3052	1/1	0.93	0.28	63,63,63,63	0
52	MG	DA	3119	1/1	0.93	0.11	64,64,64,64	0
52	MG	DA	3054	1/1	0.93	0.19	36,36,36,36	0
52	MG	DA	3122	1/1	0.93	0.20	61,61,61,61	0
52	MG	AA	1606	1/1	0.93	0.36	73,73,73,73	0
52	MG	BA	3008	1/1	0.93	0.30	34,34,34,34	0
52	MG	BP	201	1/1	0.93	0.14	13,13,13,13	0
52	MG	AA	1647	1/1	0.93	0.19	66,66,66,66	0
52	MG	BA	3250	1/1	0.93	0.26	54,54,54,54	0
52	MG	DA	3290	1/1	0.93	0.28	52,52,52,52	0
52	MG	DA	3214	1/1	0.93	0.13	65,65,65,65	0
52	MG	DA	3215	1/1	0.93	0.27	59,59,59,59	0
52	MG	BA	3013	1/1	0.93	0.19	21,21,21,21	0
52	MG	DA	3064	1/1	0.93	0.23	68,68,68,68	0
52	MG	DA	3065	1/1	0.93	0.12	49,49,49,49	0
52	MG	CA	1642	1/1	0.93	0.20	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3138	1/1	0.93	0.21	50,50,50,50	0
52	MG	AA	1605	1/1	0.93	0.23	75,75,75,75	0
52	MG	DA	3068	1/1	0.93	0.30	49,49,49,49	0
52	MG	BA	3305	1/1	0.93	0.26	54,54,54,54	0
52	MG	BA	3142	1/1	0.93	0.37	39,39,39,39	0
52	MG	DA	3071	1/1	0.93	0.22	40,40,40,40	0
52	MG	BA	3257	1/1	0.93	0.19	48,48,48,48	0
52	MG	BA	3258	1/1	0.93	0.22	61,61,61,61	0
52	MG	BA	3205	1/1	0.93	0.21	55,55,55,55	0
52	MG	BA	3144	1/1	0.93	0.21	53,53,53,53	0
52	MG	DA	3234	1/1	0.93	0.22	60,60,60,60	0
52	MG	DB	203	1/1	0.93	0.31	56,56,56,56	0
52	MG	DA	3151	1/1	0.93	0.31	72,72,72,72	0
52	MG	AA	1609	1/1	0.93	0.27	51,51,51,51	0
52	MG	DQ	201	1/1	0.93	0.28	78,78,78,78	0
52	MG	DA	3004	1/1	0.93	0.28	49,49,49,49	0
52	MG	CA	1612	1/1	0.93	0.15	77,77,77,77	0
52	MG	DA	3012	1/1	0.93	0.13	23,23,23,23	0
52	MG	BA	3088	1/1	0.93	0.11	10,10,10,10	0
55	ZIT	DA	3311	52/52	0.93	0.20	100,100,100,100	0
52	MG	BB	203	1/1	0.94	0.21	41,41,41,41	0
52	MG	BA	3023	1/1	0.94	0.20	34,34,34,34	0
52	MG	BF	301	1/1	0.94	0.07	62,62,62,62	0
52	MG	DA	3009	1/1	0.94	0.28	54,54,54,54	0
52	MG	DA	3082	1/1	0.94	0.11	17,17,17,17	0
52	MG	BA	3217	1/1	0.94	0.25	50,50,50,50	0
52	MG	AA	1607	1/1	0.94	0.31	74,74,74,74	0
52	MG	BA	3164	1/1	0.94	0.20	47,47,47,47	0
52	MG	BA	3224	1/1	0.94	0.07	40,40,40,40	0
52	MG	DA	3088	1/1	0.94	0.30	34,34,34,34	0
52	MG	BA	3227	1/1	0.94	0.07	39,39,39,39	0
52	MG	DA	3252	1/1	0.94	0.39	66,66,66,66	0
52	MG	DA	3165	1/1	0.94	0.15	52,52,52,52	0
52	MG	BA	3228	1/1	0.94	0.34	69,69,69,69	0
52	MG	DA	3022	1/1	0.94	0.33	47,47,47,47	0
52	MG	DA	3258	1/1	0.94	0.09	61,61,61,61	0
52	MG	BA	3165	1/1	0.94	0.29	50,50,50,50	0
52	MG	BA	3297	1/1	0.94	0.31	61,61,61,61	0
52	MG	DA	3171	1/1	0.94	0.26	43,43,43,43	0
52	MG	BA	3028	1/1	0.94	0.36	28,28,28,28	0
52	MG	AA	1635	1/1	0.94	0.42	63,63,63,63	0
52	MG	AA	1628	1/1	0.94	0.31	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3097	1/1	0.94	0.18	44,44,44,44	0
52	MG	DA	3177	1/1	0.94	0.37	61,61,61,61	0
52	MG	BA	3125	1/1	0.94	0.17	46,46,46,46	0
52	MG	DA	3269	1/1	0.94	0.09	61,61,61,61	0
52	MG	DA	3099	1/1	0.94	0.34	46,46,46,46	0
52	MG	DA	3272	1/1	0.94	0.22	74,74,74,74	0
52	MG	BA	3038	1/1	0.94	0.32	25,25,25,25	0
52	MG	BA	3236	1/1	0.94	0.49	70,70,70,70	0
52	MG	DA	3034	1/1	0.94	0.29	39,39,39,39	0
52	MG	DA	3276	1/1	0.94	0.16	70,70,70,70	0
52	MG	BA	3128	1/1	0.94	0.30	54,54,54,54	0
52	MG	B7	101	1/1	0.94	0.07	37,37,37,37	0
52	MG	BA	3001	1/1	0.94	0.27	49,49,49,49	0
52	MG	BA	3133	1/1	0.94	0.27	35,35,35,35	0
52	MG	BA	3003	1/1	0.94	0.12	43,43,43,43	0
52	MG	BA	3089	1/1	0.94	0.21	26,26,26,26	0
52	MG	BA	3313	1/1	0.94	0.30	54,54,54,54	0
52	MG	AA	1623	1/1	0.94	0.27	54,54,54,54	0
52	MG	BA	3139	1/1	0.94	0.22	24,24,24,24	0
52	MG	DA	3286	1/1	0.94	0.23	58,58,58,58	0
52	MG	DA	3202	1/1	0.94	0.17	40,40,40,40	0
52	MG	BA	3054	1/1	0.94	0.17	68,68,68,68	0
52	MG	BA	3188	1/1	0.94	0.30	62,62,62,62	0
52	MG	BA	3141	1/1	0.94	0.23	27,27,27,27	0
52	MG	DA	3049	1/1	0.94	0.25	35,35,35,35	0
52	MG	BA	3094	1/1	0.94	0.29	52,52,52,52	0
52	MG	DA	3121	1/1	0.94	0.12	37,37,37,37	0
52	MG	BA	3326	1/1	0.94	0.10	54,54,54,54	0
52	MG	DA	3055	1/1	0.94	0.23	42,42,42,42	0
52	MG	BA	3327	1/1	0.94	0.20	47,47,47,47	0
52	MG	AA	1631	1/1	0.94	0.11	60,60,60,60	0
52	MG	AA	1617	1/1	0.94	0.36	64,64,64,64	0
52	MG	BA	3262	1/1	0.94	0.27	75,75,75,75	0
52	MG	DA	3301	1/1	0.94	0.22	57,57,57,57	0
52	MG	BA	3331	1/1	0.94	0.21	46,46,46,46	0
52	MG	AA	1648	1/1	0.94	0.39	62,62,62,62	0
52	MG	DA	3304	1/1	0.94	0.24	52,52,52,52	0
52	MG	BA	3063	1/1	0.94	0.26	48,48,48,48	0
52	MG	BA	3271	1/1	0.94	0.25	46,46,46,46	0
52	MG	DA	3224	1/1	0.94	0.17	68,68,68,68	0
52	MG	BA	3010	1/1	0.94	0.27	38,38,38,38	0
52	MG	BA	3011	1/1	0.94	0.14	7,7,7,7	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3156	1/1	0.94	0.28	53,53,53,53	0
52	MG	BA	3342	1/1	0.94	0.20	49,49,49,49	0
52	MG	AA	1621	1/1	0.94	0.30	46,46,46,46	0
52	MG	DA	3144	1/1	0.94	0.18	47,47,47,47	0
52	MG	BA	3069	1/1	0.94	0.22	18,18,18,18	0
52	MG	BA	3208	1/1	0.94	0.06	23,23,23,23	0
52	MG	DA	3073	1/1	0.94	0.20	42,42,42,42	0
52	MG	BA	3015	1/1	0.94	0.20	48,48,48,48	0
52	MG	BA	3348	1/1	0.94	0.20	61,61,61,61	0
55	ZIT	BA	3351	52/52	0.94	0.20	100,100,100,100	0
52	MG	BA	3211	1/1	0.94	0.13	39,39,39,39	0
52	MG	BA	3194	1/1	0.95	0.34	44,44,44,44	0
52	MG	BA	3078	1/1	0.95	0.20	34,34,34,34	0
52	MG	AA	1610	1/1	0.95	0.31	65,65,65,65	0
52	MG	BA	3098	1/1	0.95	0.24	46,46,46,46	0
52	MG	BA	3019	1/1	0.95	0.24	24,24,24,24	0
52	MG	BA	3311	1/1	0.95	0.15	46,46,46,46	0
52	MG	BA	3161	1/1	0.95	0.21	42,42,42,42	0
52	MG	DA	3030	1/1	0.95	0.29	42,42,42,42	0
52	MG	BA	3255	1/1	0.95	0.16	45,45,45,45	0
52	MG	BA	3256	1/1	0.95	0.33	63,63,63,63	0
52	MG	DA	3033	1/1	0.95	0.21	44,44,44,44	0
52	MG	BA	3102	1/1	0.95	0.15	24,24,24,24	0
52	MG	DA	3174	1/1	0.95	0.40	63,63,63,63	0
52	MG	DA	3101	1/1	0.95	0.25	43,43,43,43	0
52	MG	BA	3203	1/1	0.95	0.26	35,35,35,35	0
52	MG	BA	3065	1/1	0.95	0.22	32,32,32,32	0
52	MG	AA	1624	1/1	0.95	0.35	56,56,56,56	0
52	MG	BA	3135	1/1	0.95	0.15	8,8,8,8	0
52	MG	DA	3181	1/1	0.95	0.20	50,50,50,50	0
52	MG	BA	3269	1/1	0.95	0.11	55,55,55,55	0
52	MG	BA	3167	1/1	0.95	0.41	52,52,52,52	0
52	MG	BA	3210	1/1	0.95	0.21	37,37,37,37	0
52	MG	DA	3186	1/1	0.95	0.19	63,63,63,63	0
52	MG	DA	3187	1/1	0.95	0.12	52,52,52,52	0
52	MG	BA	3105	1/1	0.95	0.33	46,46,46,46	0
52	MG	BA	3273	1/1	0.95	0.26	58,58,58,58	0
52	MG	BA	3107	1/1	0.95	0.11	34,34,34,34	0
52	MG	CA	1627	1/1	0.95	0.08	66,66,66,66	0
52	MG	DA	3194	1/1	0.95	0.29	60,60,60,60	0
52	MG	BA	3045	1/1	0.95	0.21	26,26,26,26	0
52	MG	BA	3333	1/1	0.95	0.27	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3111	1/1	0.95	0.08	19,19,19,19	0
52	MG	DA	3118	1/1	0.95	0.16	66,66,66,66	0
52	MG	DA	3199	1/1	0.95	0.13	47,47,47,47	0
52	MG	DA	3200	1/1	0.95	0.26	50,50,50,50	0
52	MG	BA	3335	1/1	0.95	0.28	52,52,52,52	0
52	MG	BA	3278	1/1	0.95	0.13	41,41,41,41	0
52	MG	BA	3337	1/1	0.95	0.37	58,58,58,58	0
52	MG	CA	1635	1/1	0.95	0.08	86,86,86,86	0
52	MG	BA	3177	1/1	0.95	0.22	52,52,52,52	0
52	MG	AA	1601	1/1	0.95	0.21	58,58,58,58	0
52	MG	BA	3226	1/1	0.95	0.14	32,32,32,32	0
52	MG	BA	3113	1/1	0.95	0.25	26,26,26,26	0
52	MG	BA	3143	1/1	0.95	0.18	30,30,30,30	0
52	MG	B1	101	1/1	0.95	0.14	39,39,39,39	0
52	MG	BA	3287	1/1	0.95	0.33	58,58,58,58	0
52	MG	BA	3145	1/1	0.95	0.24	40,40,40,40	0
52	MG	BA	3347	1/1	0.95	0.21	66,66,66,66	0
52	MG	DA	3217	1/1	0.95	0.34	62,62,62,62	0
52	MG	BA	3146	1/1	0.95	0.23	42,42,42,42	0
52	MG	DA	3139	1/1	0.95	0.21	68,68,68,68	0
52	MG	CA	1648	1/1	0.95	0.21	79,79,79,79	0
52	MG	D0	101	1/1	0.95	0.18	62,62,62,62	0
52	MG	D1	101	1/1	0.95	0.19	50,50,50,50	0
52	MG	BA	3090	1/1	0.95	0.19	38,38,38,38	0
52	MG	BA	3185	1/1	0.95	0.18	14,14,14,14	0
52	MG	BA	3118	1/1	0.95	0.29	59,59,59,59	0
52	MG	BD	301	1/1	0.95	0.14	43,43,43,43	0
52	MG	BA	3050	1/1	0.95	0.24	38,38,38,38	0
52	MG	AA	1612	1/1	0.95	0.24	66,66,66,66	0
52	MG	DA	3006	1/1	0.95	0.28	39,39,39,39	0
52	MG	DB	201	1/1	0.95	0.28	52,52,52,52	0
52	MG	BA	3014	1/1	0.95	0.28	32,32,32,32	0
52	MG	DA	3232	1/1	0.95	0.17	72,72,72,72	0
52	MG	BX	101	1/1	0.95	0.12	61,61,61,61	0
52	MG	BA	3155	1/1	0.95	0.19	41,41,41,41	0
52	MG	DP	201	1/1	0.95	0.10	50,50,50,50	0
52	MG	BA	3241	1/1	0.95	0.24	79,79,79,79	0
52	MG	BA	3242	1/1	0.95	0.17	48,48,48,48	0
52	MG	DA	3237	1/1	0.95	0.12	53,53,53,53	0
52	MG	DA	3157	1/1	0.95	0.41	65,65,65,65	0
52	MG	DA	3086	1/1	0.95	0.24	38,38,38,38	0
52	MG	BA	3191	1/1	0.95	0.33	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3036	1/1	0.95	0.06	0,0,0,0	0
52	MG	DA	3256	1/1	0.96	0.13	57,57,57,57	0
52	MG	BA	3084	1/1	0.96	0.04	14,14,14,14	0
52	MG	DA	3010	1/1	0.96	0.22	31,31,31,31	0
52	MG	DA	3011	1/1	0.96	0.27	50,50,50,50	0
52	MG	BA	3070	1/1	0.96	0.23	35,35,35,35	0
52	MG	DA	3128	1/1	0.96	0.42	51,51,51,51	0
52	MG	BA	3216	1/1	0.96	0.32	43,43,43,43	0
52	MG	DA	3263	1/1	0.96	0.19	67,67,67,67	0
52	MG	DA	3130	1/1	0.96	0.26	43,43,43,43	0
52	MG	BA	3294	1/1	0.96	0.32	65,65,65,65	0
52	MG	BA	3044	1/1	0.96	0.20	26,26,26,26	0
52	MG	DA	3018	1/1	0.96	0.31	32,32,32,32	0
52	MG	BA	3072	1/1	0.96	0.16	24,24,24,24	0
52	MG	DA	3136	1/1	0.96	0.30	59,59,59,59	0
52	MG	DA	3137	1/1	0.96	0.27	38,38,38,38	0
52	MG	BA	3221	1/1	0.96	0.33	40,40,40,40	0
52	MG	AA	1630	1/1	0.96	0.33	59,59,59,59	0
52	MG	BA	3299	1/1	0.96	0.36	58,58,58,58	0
52	MG	DA	3206	1/1	0.96	0.08	48,48,48,48	0
52	MG	DA	3080	1/1	0.96	0.32	40,40,40,40	0
52	MG	BA	3029	1/1	0.96	0.15	26,26,26,26	0
52	MG	BA	3163	1/1	0.96	0.32	47,47,47,47	0
52	MG	DA	3210	1/1	0.96	0.17	63,63,63,63	0
52	MG	BA	3124	1/1	0.96	0.07	42,42,42,42	0
52	MG	BA	3025	1/1	0.96	0.20	54,54,54,54	0
52	MG	DA	3028	1/1	0.96	0.19	39,39,39,39	0
52	MG	BA	3265	1/1	0.96	0.32	63,63,63,63	0
52	MG	BA	3268	1/1	0.96	0.09	40,40,40,40	0
52	MG	BA	3109	1/1	0.96	0.31	34,34,34,34	0
52	MG	BA	3077	1/1	0.96	0.27	28,28,28,28	0
52	MG	CA	1631	1/1	0.96	0.45	70,70,70,70	0
52	MG	BA	3308	1/1	0.96	0.34	64,64,64,64	0
52	MG	BB	201	1/1	0.96	0.28	42,42,42,42	0
52	MG	BB	202	1/1	0.96	0.18	30,30,30,30	0
52	MG	BA	3231	1/1	0.96	0.33	52,52,52,52	0
52	MG	BA	3168	1/1	0.96	0.12	43,43,43,43	0
52	MG	BA	3169	1/1	0.96	0.24	46,46,46,46	0
52	MG	BA	3040	1/1	0.96	0.41	51,51,51,51	0
52	MG	CA	1639	1/1	0.96	0.25	64,64,64,64	0
52	MG	BA	3130	1/1	0.96	0.15	26,26,26,26	0
52	MG	BA	3314	1/1	0.96	0.11	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3044	1/1	0.96	0.24	46,46,46,46	0
52	MG	BU	201	1/1	0.96	0.17	26,26,26,26	0
52	MG	DA	3103	1/1	0.96	0.50	70,70,70,70	0
52	MG	DA	3046	1/1	0.96	0.21	28,28,28,28	0
52	MG	CA	1643	1/1	0.96	0.32	62,62,62,62	0
52	MG	BA	3276	1/1	0.96	0.34	55,55,55,55	0
52	MG	DA	3170	1/1	0.96	0.24	53,53,53,53	0
52	MG	BA	3172	1/1	0.96	0.25	64,64,64,64	0
52	MG	DA	3239	1/1	0.96	0.17	59,59,59,59	0
52	MG	DA	3050	1/1	0.96	0.21	42,42,42,42	0
52	MG	DA	3241	1/1	0.96	0.20	60,60,60,60	0
52	MG	BA	3317	1/1	0.96	0.10	41,41,41,41	0
52	MG	BA	3051	1/1	0.96	0.19	14,14,14,14	0
52	MG	BA	3201	1/1	0.96	0.20	29,29,29,29	0
52	MG	BA	3175	1/1	0.96	0.18	49,49,49,49	0
52	MG	BA	3323	1/1	0.96	0.11	64,64,64,64	0
52	MG	BA	3022	1/1	0.96	0.24	49,49,49,49	0
52	MG	CA	1608	1/1	0.96	0.27	51,51,51,51	0
52	MG	BA	3043	1/1	0.96	0.10	36,36,36,36	0
52	MG	DU	201	1/1	0.96	0.19	60,60,60,60	0
52	MG	BA	3153	1/1	0.96	0.27	25,25,25,25	0
53	ZN	AD	301	1/1	0.96	0.22	108,108,108,108	0
52	MG	BA	3154	1/1	0.96	0.14	32,32,32,32	0
52	MG	BA	3115	1/1	0.96	0.29	49,49,49,49	0
52	MG	BA	3136	1/1	0.96	0.28	32,32,32,32	0
52	MG	DA	3007	1/1	0.96	0.16	39,39,39,39	0
52	MG	BA	3239	1/1	0.97	0.24	48,48,48,48	0
52	MG	BA	3206	1/1	0.97	0.21	29,29,29,29	0
52	MG	BA	3325	1/1	0.97	0.26	43,43,43,43	0
52	MG	BA	3207	1/1	0.97	0.10	23,23,23,23	0
52	MG	AA	1620	1/1	0.97	0.15	73,73,73,73	0
52	MG	DA	3271	1/1	0.97	0.08	46,46,46,46	0
52	MG	DA	3213	1/1	0.97	0.25	36,36,36,36	0
52	MG	DA	3003	1/1	0.97	0.28	56,56,56,56	0
52	MG	BA	3243	1/1	0.97	0.10	58,58,58,58	0
52	MG	BA	3064	1/1	0.97	0.16	28,28,28,28	0
52	MG	DA	3107	1/1	0.97	0.28	38,38,38,38	0
52	MG	BA	3086	1/1	0.97	0.13	18,18,18,18	0
52	MG	BA	3018	1/1	0.97	0.11	26,26,26,26	0
52	MG	DA	3220	1/1	0.97	0.18	62,62,62,62	0
52	MG	BA	3291	1/1	0.97	0.38	54,54,54,54	0
52	MG	BA	3248	1/1	0.97	0.05	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3063	1/1	0.97	0.18	47,47,47,47	0
52	MG	BA	3212	1/1	0.97	0.24	30,30,30,30	0
52	MG	BA	3213	1/1	0.97	0.29	32,32,32,32	0
52	MG	BA	3251	1/1	0.97	0.08	35,35,35,35	0
52	MG	B5	101	1/1	0.97	0.09	27,27,27,27	0
52	MG	DA	3016	1/1	0.97	0.34	56,56,56,56	0
52	MG	BA	3046	1/1	0.97	0.19	37,37,37,37	0
52	MG	BA	3020	1/1	0.97	0.28	38,38,38,38	0
52	MG	BA	3340	1/1	0.97	0.30	62,62,62,62	0
52	MG	BA	3218	1/1	0.97	0.25	33,33,33,33	0
52	MG	BA	3048	1/1	0.97	0.26	30,30,30,30	0
52	MG	DA	3293	1/1	0.97	0.23	53,53,53,53	0
52	MG	DA	3123	1/1	0.97	0.13	61,61,61,61	0
52	MG	BA	3220	1/1	0.97	0.23	27,27,27,27	0
52	MG	BA	3004	1/1	0.97	0.17	23,23,23,23	0
52	MG	BA	3117	1/1	0.97	0.30	39,39,39,39	0
52	MG	BA	3037	1/1	0.97	0.15	14,14,14,14	0
52	MG	BA	3225	1/1	0.97	0.20	33,33,33,33	0
52	MG	DA	3183	1/1	0.97	0.22	44,44,44,44	0
52	MG	BA	3264	1/1	0.97	0.16	35,35,35,35	0
52	MG	AA	1602	1/1	0.97	0.27	37,37,37,37	0
52	MG	DA	3131	1/1	0.97	0.26	47,47,47,47	0
52	MG	BA	3267	1/1	0.97	0.23	38,38,38,38	0
52	MG	BA	3052	1/1	0.97	0.17	15,15,15,15	0
52	MG	BA	3053	1/1	0.97	0.19	15,15,15,15	0
52	MG	BA	3006	1/1	0.97	0.23	29,29,29,29	0
52	MG	BA	3123	1/1	0.97	0.20	22,22,22,22	0
52	MG	DA	3192	1/1	0.97	0.27	55,55,55,55	0
52	MG	DA	3193	1/1	0.97	0.31	50,50,50,50	0
52	MG	BE	301	1/1	0.97	0.22	29,29,29,29	0
52	MG	BA	3100	1/1	0.97	0.15	21,21,21,21	0
52	MG	BA	3173	1/1	0.97	0.21	24,24,24,24	0
52	MG	DE	301	1/1	0.97	0.17	40,40,40,40	0
52	MG	BP	202	1/1	0.97	0.25	58,58,58,58	0
52	MG	BQ	201	1/1	0.97	0.04	32,32,32,32	0
52	MG	BA	3026	1/1	0.97	0.12	49,49,49,49	0
52	MG	BR	201	1/1	0.97	0.10	20,20,20,20	0
52	MG	AA	1642	1/1	0.97	0.24	51,51,51,51	0
52	MG	BA	3127	1/1	0.97	0.10	50,50,50,50	0
52	MG	BA	3059	1/1	0.97	0.24	39,39,39,39	0
53	ZN	AN	101	1/1	0.97	0.05	159,159,159,159	0
53	ZN	CD	301	1/1	0.97	0.17	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	ZN	CN	101	1/1	0.97	0.06	157,157,157,157	0
52	MG	BA	3042	1/1	0.97	0.18	15,15,15,15	0
52	MG	DA	3148	1/1	0.97	0.21	48,48,48,48	0
52	MG	BA	3062	1/1	0.97	0.32	44,44,44,44	0
52	MG	BA	3322	1/1	0.97	0.13	20,20,20,20	0
52	MG	BA	3033	1/1	0.98	0.06	20,20,20,20	0
52	MG	BA	3290	1/1	0.98	0.24	47,47,47,47	0
52	MG	B0	101	1/1	0.98	0.17	34,34,34,34	0
52	MG	BA	3247	1/1	0.98	0.03	40,40,40,40	0
52	MG	BA	3061	1/1	0.98	0.06	23,23,23,23	0
52	MG	DA	3021	1/1	0.98	0.23	47,47,47,47	0
52	MG	BA	3035	1/1	0.98	0.11	21,21,21,21	0
52	MG	BA	3099	1/1	0.98	0.15	26,26,26,26	0
52	MG	DA	3053	1/1	0.98	0.45	51,51,51,51	0
52	MG	BA	3318	1/1	0.98	0.28	60,60,60,60	0
52	MG	BA	3147	1/1	0.98	0.04	12,12,12,12	0
52	MG	BA	3002	1/1	0.98	0.20	20,20,20,20	0
52	MG	BA	3016	1/1	0.98	0.13	21,21,21,21	0
52	MG	BA	3199	1/1	0.98	0.32	49,49,49,49	0
52	MG	DA	3180	1/1	0.98	0.25	52,52,52,52	0
52	MG	BA	3075	1/1	0.98	0.17	26,26,26,26	0
52	MG	DA	3060	1/1	0.98	0.04	34,34,34,34	0
52	MG	DA	3002	1/1	0.98	0.34	38,38,38,38	0
52	MG	BA	3030	1/1	0.98	0.11	17,17,17,17	0
52	MG	BA	3056	1/1	0.98	0.07	20,20,20,20	0
52	MG	BA	3091	1/1	0.98	0.15	9,9,9,9	0
52	MG	BA	3281	1/1	0.98	0.33	46,46,46,46	0
52	MG	DA	3156	1/1	0.98	0.34	44,44,44,44	0
52	MG	DA	3253	1/1	0.98	0.26	50,50,50,50	0
52	MG	BA	3222	1/1	0.98	0.16	23,23,23,23	0
52	MG	DA	3008	1/1	0.98	0.42	52,52,52,52	0
52	MG	BA	3261	1/1	0.98	0.13	38,38,38,38	0
52	MG	BB	204	1/1	0.98	0.38	56,56,56,56	0
52	MG	BA	3106	1/1	0.98	0.11	12,12,12,12	0
52	MG	BA	3021	1/1	0.98	0.14	16,16,16,16	0
52	MG	BA	3079	1/1	0.98	0.13	0,0,0,0	0
52	MG	BA	3032	1/1	0.98	0.20	15,15,15,15	0
52	MG	DA	3015	1/1	0.98	0.11	23,23,23,23	0
52	MG	BA	3266	1/1	0.99	0.22	35,35,35,35	0
52	MG	BA	3108	1/1	0.99	0.29	56,56,56,56	0
52	MG	BA	3012	1/1	0.99	0.13	22,22,22,22	0
52	MG	BA	3017	1/1	0.99	0.26	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3260	1/1	0.99	0.18	42,42,42,42	0
52	MG	BA	3131	1/1	0.99	0.11	45,45,45,45	0
52	MG	BA	3055	1/1	0.99	0.19	19,19,19,19	0
52	MG	BP	203	1/1	0.99	0.09	0,0,0,0	0
52	MG	DA	3051	1/1	0.99	0.20	26,26,26,26	0
52	MG	BA	3193	1/1	0.99	0.20	28,28,28,28	0
52	MG	BA	3215	1/1	0.99	0.18	36,36,36,36	0
52	MG	BA	3083	1/1	0.99	0.07	5,5,5,5	0
52	MG	BA	3286	1/1	0.99	0.03	45,45,45,45	0
52	MG	BA	3024	1/1	1.00	0.04	2,2,2,2	0

6.5 Other polymers (i)

There are no such residues in this entry.