wwPDB X-ray Structure Validation Summary Report (i)

Jul 3, 2024 – 05:41 PM EDT

PDB ID	:	4U1V
Title	:	Crystal structure of the E. coli ribosome bound to linopristin.
Authors	:	Noeske, J.; Huang, J.; Olivier, N.B.; Giacobbe, R.A.; Zambrowski, M.; Cate, J.H.D.
Deposited on	:	2014-07-16
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 (1)) were used in the production of this report:

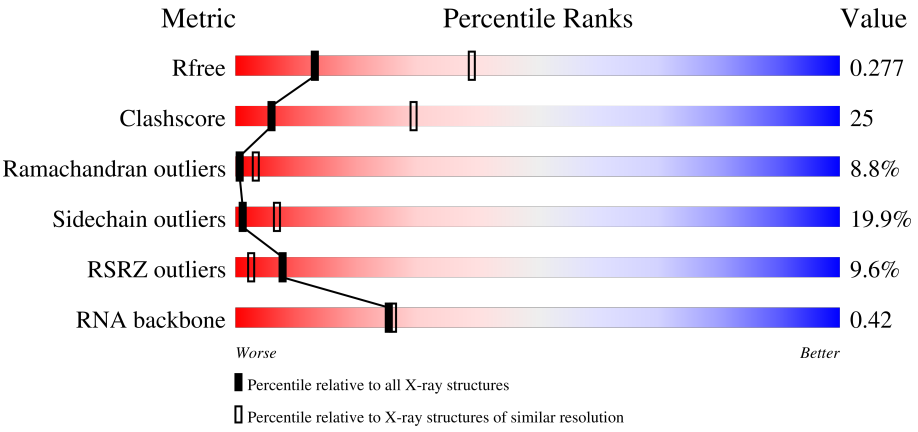
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.37.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

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}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)
RNA backbone	3102	1173 (3.30-2.70)

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

Mol	Chain	Length	Quality of chain
1	AA	1539	23% 58% 19%
1	CA	1539	29% 53% 17%
2	AB	218	24% 22% 48% 25% 5%
2	CB	218	32% 31% 44% 22%

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Mol	Chain	Length	Quality of chain
3	AC	206	2% 40% 46% 12%
3	CC	206	21% 43% 41% 15%
4	AD	205	% 30% 45% 21%
4	CD	205	% 39% 41% 18%
5	AE	150	2% 36% 42% 21%
5	CE	150	% 35% 38% 25%
6	AF	100	30% 39% 25% 6%
6	CF	100	% 34% 43% 15% 8%
7	AG	151	17% 38% 46% 16%
7	CG	151	40% 46% 40% 13%
8	AH	129	% 39% 37% 23%
8	CH	129	3% 45% 41% 12%
9	AI	127	17% 35% 43% 22%
9	CI	127	28% 31% 53% 16%
10	AJ	98	7% 21% 43% 33%
10	CJ	98	42% 41% 40% 19%
11	AK	117	12% 40% 40% 17%
11	CK	117	3% 29% 55% 14%
12	AL	123	2% 42% 42% 12%
12	CL	123	3% 36% 41% 20%
13	AM	114	6% 33% 41% 23%
13	CM	114	48% 44% 41% 14%
14	AN	100	16% 31% 45% 16%
14	CN	100	36% 43% 35% 17%
15	AO	88	% 42% 44% 14%

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Mol	Chain	Length	Quality of chain
15	CO	88	2% 48% 42% 9%
16	AP	82	5% 34% 44% 18%
16	CP	82	15% 49% 37% 15%
17	AQ	80	4% 18% 54% 25%
17	CQ	80	6% 32% 45% 19%
18	AR	55	5% 49% 40% 11%
18	CR	55	2% 49% 38% 11%
19	AS	79	18% 43% 44% 10%
19	CS	79	70% 35% 51% 11%
20	AT	85	4% 34% 49% 13%
20	CT	85	24% 34% 49% 15%
21	AU	51	41% 29% 41% 25%
21	CU	51	12% 18% 47% 27% 8%
22	BA	2903	4% 28% 48% 21%
22	DA	2903	2% 30% 54% 16%
23	BB	119	42% 44% 13%
23	DB	119	29% 59% 12%
24	BC	271	3% 40% 50% 9%
24	DC	271	8% 45% 45% 10%
25	BD	209	54% 39% 7%
25	DD	209	6% 59% 33% 7%
26	BE	201	47% 43% 9%
26	DE	201	16% 44% 41% 14%
27	BF	177	6% 37% 49% 13%
27	DF	177	52% 49% 40% 11%

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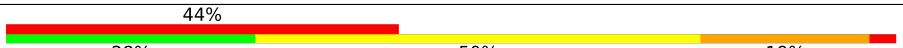
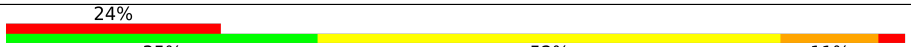
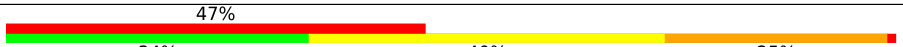
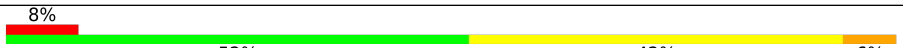
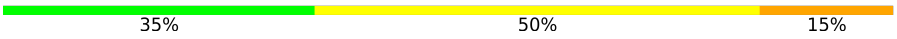
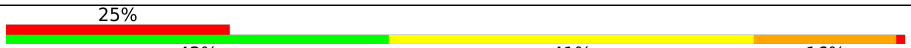
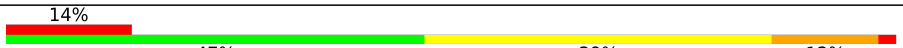
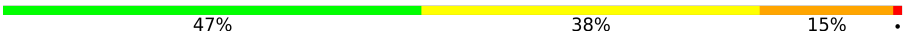
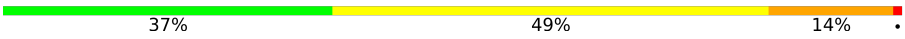
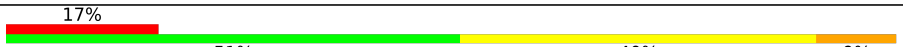
Mol	Chain	Length	Quality of chain
28	BG	176	
28	DG	176	
29	BH	149	
29	DH	149	
30	BI	141	
30	DI	141	
31	BJ	142	
31	DJ	142	
32	BK	122	
32	DK	122	
33	BL	143	
33	DL	143	
34	BM	136	
34	DM	136	
35	BN	120	
35	DN	120	
36	BO	116	
36	DO	116	
37	BP	114	
37	DP	114	
38	BQ	117	
38	DQ	117	
39	BR	103	
39	DR	103	
40	BS	110	

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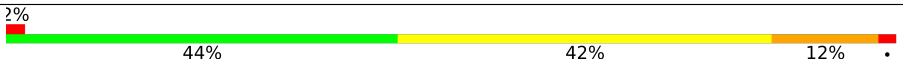
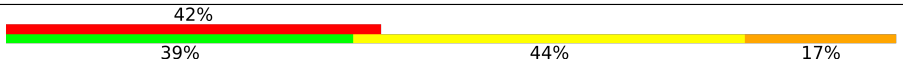
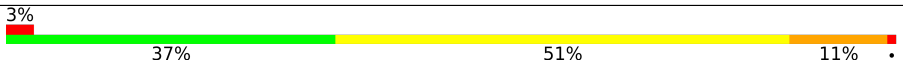
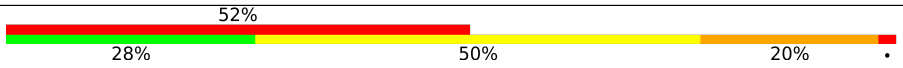
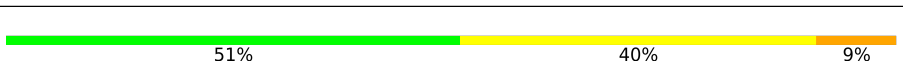
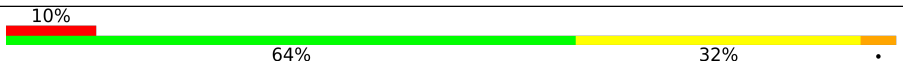
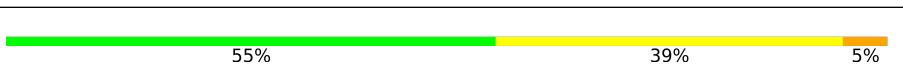
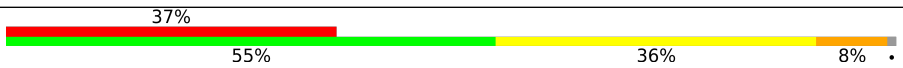
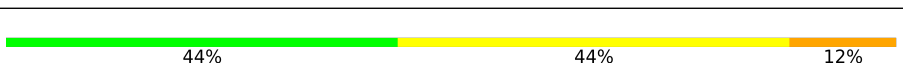
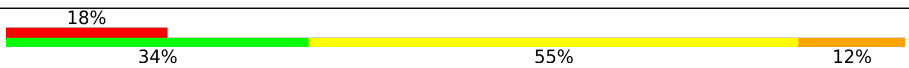
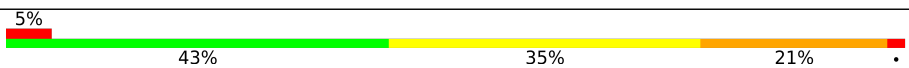
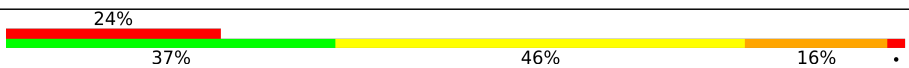
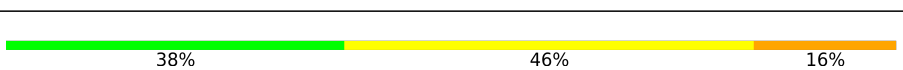
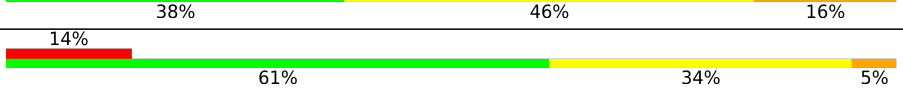
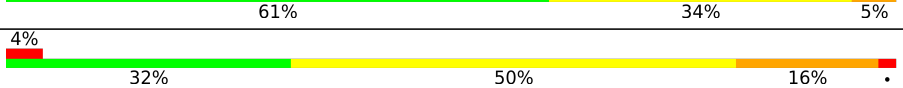
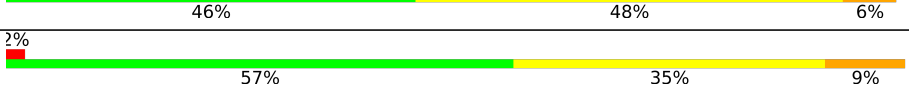
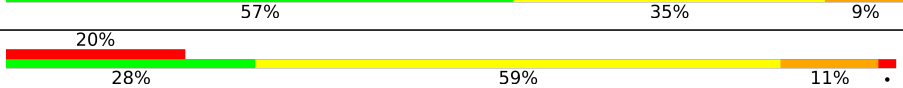
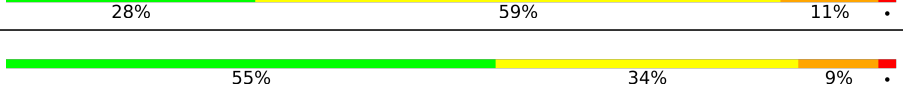
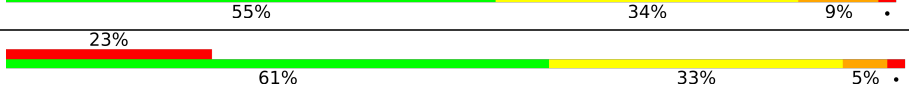
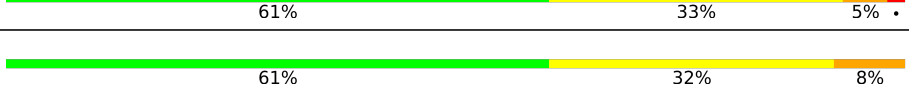
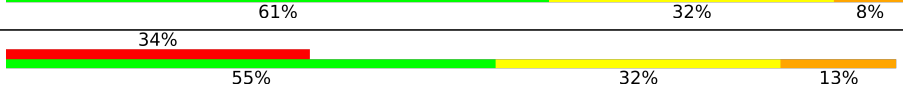
Mol	Chain	Length	Quality of chain
40	DS	110	
41	BT	93	
41	DT	93	
42	BU	102	
42	DU	102	
43	BV	94	
43	DV	94	
44	BW	76	
44	DW	76	
45	BX	77	
45	DX	77	
46	BY	63	
46	DY	63	
47	BZ	58	
47	DZ	58	
48	B0	56	
48	D0	56	
49	B1	50	
49	D1	50	
50	B2	46	
50	D2	46	
51	B3	64	
51	D3	64	
52	B4	38	
52	D4	38	

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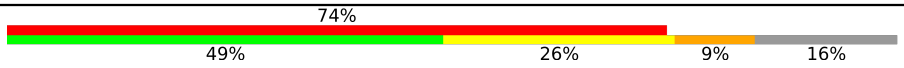
Mol	Chain	Length	Quality of chain
53	B5	228	
54	B6	7	
54	D6	7	

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
54	MHW	B6	1	-	X	-	-
54	MHW	D6	1	-	X	X	-
55	MG	AA	1627	-	-	-	X
55	MG	AA	1644	-	-	-	X
55	MG	AA	1665	-	-	-	X
55	MG	AA	1667	-	-	-	X
55	MG	AA	1670	-	-	-	X
55	MG	BA	3015	-	-	-	X
55	MG	BA	3098	-	-	-	X
55	MG	BA	3115	-	-	-	X
55	MG	BA	3190	-	-	-	X
55	MG	CA	1655	-	-	-	X
55	MG	DA	3002	-	-	-	X
55	MG	DA	3015	-	-	-	X
55	MG	DA	3016	-	-	-	X
55	MG	DA	3028	-	-	-	X
55	MG	DA	3041	-	-	-	X
55	MG	DA	3061	-	-	-	X
55	MG	DA	3062	-	-	-	X
55	MG	DA	3071	-	-	-	X
55	MG	DA	3072	-	-	-	X
55	MG	DA	3092	-	-	-	X
55	MG	DA	3120	-	-	-	X
55	MG	DA	3132	-	-	-	X
55	MG	DA	3134	-	-	-	X
55	MG	DA	3151	-	-	-	X
55	MG	DA	3158	-	-	-	X
55	MG	DA	3164	-	-	-	X

2 Entry composition (i)

There are 57 unique types of molecules in this entry. The entry contains 288320 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	1538	Total	C	N	O	P	0	0	0
			32995	14716	6050	10691	1538			
1	CA	1539	Total	C	N	O	P	0	0	0
			33015	14725	6052	10699	1539			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	218	Total	C	N	O	S	0	0	0
			1705	1081	305	312	7			
2	CB	218	Total	C	N	O	S	0	0	0
			1705	1081	305	312	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	206	Total	C	N	O	S	0	0	0
			1625	1028	305	289	3			
3	CC	206	Total	C	N	O	S	0	0	0
			1625	1028	305	289	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			
4	CD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	150	Total	C	N	O	S	0	0	0
			1106	687	211	202	6			
5	CE	150	Total	C	N	O	S	0	0	0
			1106	687	211	202	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	100	Total	C	N	O	S	0	0	0
			818	515	148	149	6			
6	CF	100	Total	C	N	O	S	0	0	0
			818	515	148	149	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	151	Total	C	N	O	S	0	0	0
			1182	735	227	216	4			
7	CG	151	Total	C	N	O	S	0	0	0
			1182	735	227	216	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			
8	CH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			
9	CI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	98	Total	C	N	O	S	0	0	0
			787	493	150	143	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	CJ	98	Total	C	N	O	S	0	0	0
			787	493	150	143	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			
11	CK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			
12	CL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	114	Total	C	N	O	S	0	0	0
			884	546	178	157	3			
13	CM	114	Total	C	N	O	S	0	0	0
			884	546	178	157	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			
14	CN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AO	88	Total	C	N	O	S	0	0	0
			710	437	143	129	1			
15	CO	88	Total	C	N	O	S	0	0	0
			710	437	143	129	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	82	Total	C	N	O	S	0	0	0
			649	406	128	114	1			
16	CP	82	Total	C	N	O	S	0	0	0
			649	406	128	114	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	80	Total	C	N	O	S	0	0	0
			649	411	121	114	3			
17	CQ	80	Total	C	N	O	S	0	0	0
			649	411	121	114	3			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	55	Total	C	N	O	0	0	0
			456	288	86	82			
18	CR	55	Total	C	N	O	0	0	0
			456	288	86	82			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	0
			638	408	120	108	2			
19	CS	79	Total	C	N	O	S	0	0	0
			638	408	120	108	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			
20	CT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			

- Molecule 21 is a protein called 30S ribosomal protein S21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AU	51	Total	C	N	O	S	0	0	0
			426	265	86	74	1			
21	CU	51	Total	C	N	O	S	0	0	0
			426	265	86	74	1			

- Molecule 22 is a RNA chain called 23S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	BA	2897	Total	C	N	O	P	0	0	0
			62195	27745	11446	20107	2897			
22	DA	2897	Total	C	N	O	P	0	0	0
			62195	27745	11446	20107	2897			

- Molecule 23 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	BB	119	Total	C	N	O	P	0	0	0
			2549	1135	466	829	119			
23	DB	118	Total	C	N	O	P	0	0	0
			2529	1126	464	821	118			

- Molecule 24 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BC	271	Total	C	N	O	S	0	0	0
			2083	1288	423	365	7			
24	DC	271	Total	C	N	O	S	0	0	0
			2083	1288	423	365	7			

- Molecule 25 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			
25	DD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			

- Molecule 26 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	DE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			

- Molecule 27 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BF	177	Total	C	N	O	S	0	0	0
			1411	899	249	257	6			
27	DF	177	Total	C	N	O	S	0	0	0
			1411	899	249	257	6			

- Molecule 28 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			
28	DG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			

- Molecule 29 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BH	149	Total	C	N	O	S	0	0	0
			1110	699	197	213	1			
29	DH	149	Total	C	N	O	S	0	0	0
			1110	699	197	213	1			

- Molecule 30 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			
30	DI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			

- Molecule 31 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BJ	142	Total	C	N	O	S	0	0	0
			1129	714	212	199	4			
31	DJ	142	Total	C	N	O	S	0	0	0
			1129	714	212	199	4			

- Molecule 32 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BK	122	Total	C	N	O	S	0	0	0
			939	587	180	166	6			
32	DK	122	Total	C	N	O	S	0	0	0
			939	587	180	166	6			

- Molecule 33 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BL	143	Total	C	N	O	S	0	0	0
			1045	649	206	189	1			
33	DL	143	Total	C	N	O	S	0	0	0
			1045	649	206	189	1			

- Molecule 34 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			
34	DM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			

- Molecule 35 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BN	120	Total	C	N	O	S	0	0	0
			961	593	196	167	5			
35	DN	120	Total	C	N	O	S	0	0	0
			961	593	196	167	5			

- Molecule 36 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	BO	116	Total	C	N	O	0	0	0
			892	552	178	162			
36	DO	116	Total	C	N	O	0	0	0
			892	552	178	162			

- Molecule 37 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			
37	DP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			

- Molecule 38 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
38	BQ	117	Total	C	N	O	0	0	0
			947	604	192	151			
38	DQ	117	Total	C	N	O	0	0	0
			947	604	192	151			

- Molecule 39 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			
39	DR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			

- Molecule 40 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			
40	DS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			

- Molecule 41 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BT	93	Total	C	N	O	S	0	0	0
			739	466	139	132	2			
41	DT	93	Total	C	N	O	S	0	0	0
			739	466	139	132	2			

- Molecule 42 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	BU	102	Total	C	N	O	0	0	0
			780	492	146	142			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	DU	102	Total 780	C 492	N 146	O 142	0	0	0

- Molecule 43 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BV	94	Total 753	C 479	N 137	O 134	S 3	0	0	0
43	DV	94	Total 753	C 479	N 137	O 134	S 3	0	0	0

- Molecule 44 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BW	76	Total 580	C 359	N 117	O 103	S 1	0	0	0
44	DW	75	Total 569	C 353	N 113	O 102	S 1	0	0	0

- Molecule 45 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BX	77	Total 625	C 388	N 129	O 106	S 2	0	0	0
45	DX	77	Total 625	C 388	N 129	O 106	S 2	0	0	0

- Molecule 46 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BY	63	Total 509	C 313	N 99	O 95	S 2	0	0	0
46	DY	63	Total 509	C 313	N 99	O 95	S 2	0	0	0

- Molecule 47 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BZ	58	Total 449	C 281	N 87	O 79	S 2	0	0	0
47	DZ	58	Total 449	C 281	N 87	O 79	S 2	0	0	0

- Molecule 48 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	B0	56	Total	C	N	O	S	0	0	0
			444	269	94	80	1			
48	D0	56	Total	C	N	O	S	0	0	0
			444	269	94	80	1			

- Molecule 49 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	B1	50	Total	C	N	O	0	0	0
			410	263	75	72			
49	D1	50	Total	C	N	O	0	0	0
			410	263	75	72			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			
50	D2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			

- Molecule 51 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			
51	D3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			

- Molecule 52 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			
52	D4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			

- Molecule 53 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	B5	191	Total 1142	C 691	N 221	O 230	0	0	1

- Molecule 54 is a protein called Linopristin.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
54	B6	7	Total 69	C 50	N 9	O 10	0	0	0
54	D6	7	Total 69	C 50	N 9	O 10	0	0	0

- Molecule 55 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	AA	71	Total 71	Mg 71	0	0
55	AM	1	Total 1	Mg 1	0	0
55	BA	195	Total 195	Mg 195	0	0
55	BB	4	Total 4	Mg 4	0	0
55	CA	55	Total 55	Mg 55	0	0
55	CM	1	Total 1	Mg 1	0	0
55	DA	167	Total 167	Mg 167	0	0
55	DB	3	Total 3	Mg 3	0	0
55	DQ	1	Total 1	Mg 1	0	0

- Molecule 56 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	B4	1	Total 1	Zn 1	0	0
56	D4	1	Total 1	Zn 1	0	0

- Molecule 57 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	AA	194	Total O 194 194	0	0
57	AL	1	Total O 1 1	0	0
57	AN	5	Total O 5 5	0	0
57	AT	2	Total O 2 2	0	0
57	AU	1	Total O 1 1	0	0
57	BA	615	Total O 615 615	0	0
57	BB	14	Total O 14 14	0	0
57	BC	10	Total O 10 10	0	0
57	BD	4	Total O 4 4	0	0
57	BE	4	Total O 4 4	0	0
57	BF	1	Total O 1 1	0	0
57	BG	1	Total O 1 1	0	0
57	BJ	1	Total O 1 1	0	0
57	BL	6	Total O 6 6	0	0
57	BN	2	Total O 2 2	0	0
57	BS	1	Total O 1 1	0	0
57	BU	1	Total O 1 1	0	0
57	B2	1	Total O 1 1	0	0
57	B3	3	Total O 3 3	0	0
57	B4	2	Total O 2 2	0	0
57	CA	189	Total O 189 189	0	0
57	CL	1	Total O 1 1	0	0

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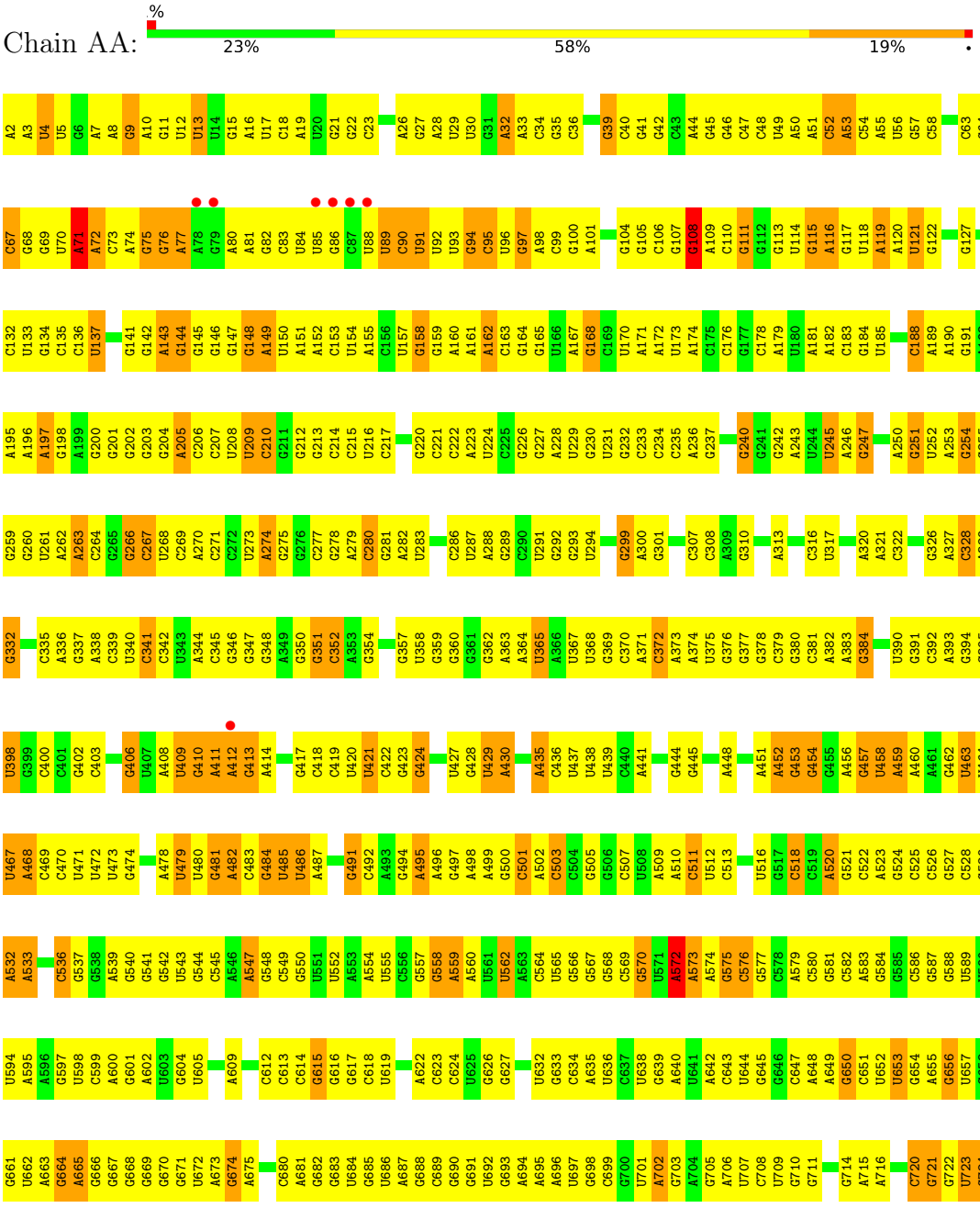
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	CN	3	Total O 3 3	0	0
57	CT	3	Total O 3 3	0	0
57	CU	2	Total O 2 2	0	0
57	DA	607	Total O 607 607	0	0
57	DB	13	Total O 13 13	0	0
57	DC	9	Total O 9 9	0	0
57	DD	4	Total O 4 4	0	0
57	DE	6	Total O 6 6	0	0
57	DL	5	Total O 5 5	0	0
57	DN	2	Total O 2 2	0	0
57	DT	2	Total O 2 2	0	0
57	DU	1	Total O 1 1	0	0
57	DV	1	Total O 1 1	0	0
57	D0	1	Total O 1 1	0	0
57	D2	2	Total O 2 2	0	0
57	D3	2	Total O 2 2	0	0
57	D4	1	Total O 1 1	0	0

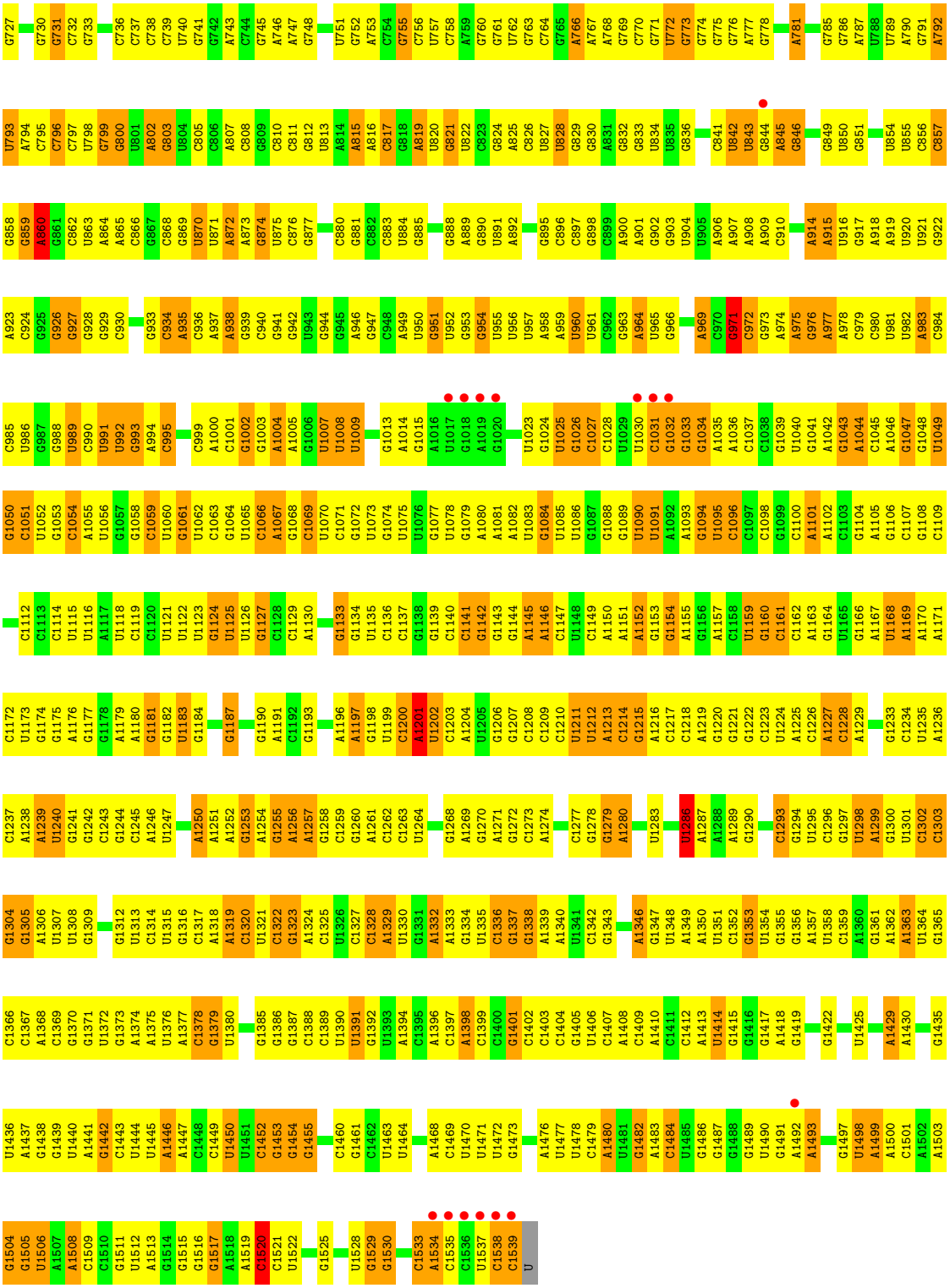
3 Residue-property plots (i)

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

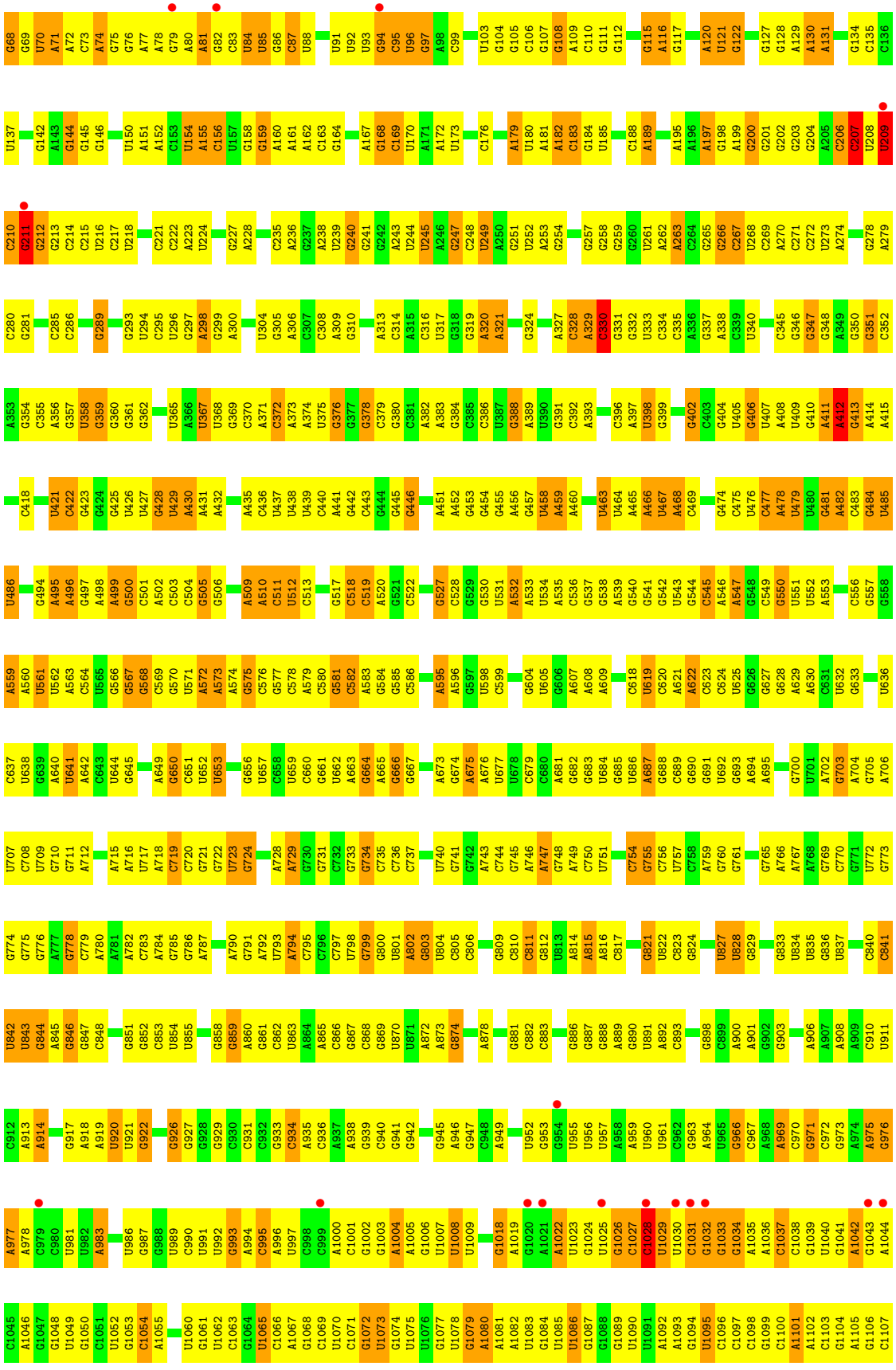
Chain AA:





• Molecule 1: 16S rRNA

Chain CA:


G68 G69 U70 A71 A72 C73 A74 G75 G76 A77 A78 G79 A80 A81 G82 C83 U84 U85 G86 C87 U88 U91 U92 U93 G94 C95 U96 G97 A98 C99 U103 G104 G105 C106 G107 G108 A109 C110 G111 G112 G115 A116 G117 A120 U121 G122 G127 G128 A129 A130 A131 G134 C135 C136
U137 G142 A143 G144 G145 G146 U150 A151 A152 C153 U154 A155 C156 U157 G158 G159 A160 A161 A162 C163 G164 A167 G168 C169 U170 A171 A172 U173 C176 A179 U180 A181 A182 C183 G184 U185 C188 A189 A195 A196 A197 G198 A199 G200 G201 G202 G203 G204 A205 C206 C207 U208 U209
C210 G211 G212 G213 C214 C215 U216 C217 U218 C221 C222 A223 U224 G227 A228 C235 A236 G237 A238 U239 G240 G241 G242 A243 U244 U245 A246 G247 C248 U249 A250 G251 U252 A253 G254 G257 C258 G259 G260 U261 A262 A263 C264 G265 G266 C267 U268 C269 A270 C271 C272 U273 A274 G278 A279
C280 G281 C285 C286 G289 G293 U294 C295 U296 G297 A298 G299 A300 U304 G305 A306 C307 C308 A309 G310 A313 C314 A315 C316 U317 G318 G319 A320 A321 G324 A327 G328 A329 C330 G331 G332 U333 C334 C335 A336 G337 A338 C339 U340 C345 G346 G347 G348 A349 G350 G351 C352
A353 G354 C355 A356 G357 U358 G359 G360 G361 G362 U365 A366 U367 U368 G369 C370 A371 C372 A373 A374 U375 G376 G377 G378 C379 G380 C381 A382 A383 G384 C385 C386 U387 G388 A389 U390 G391 C392 A393 C396 A397 U398 G399 G402 C403 G404 U405 G406 U407 A408 U409 G410 A411 A412 G413 A414 A415
C418 U421 C422 C423 G424 G425 U426 U427 G428 U429 A430 A431 A432 A435 C436 U437 U438 U439 C440 A441 G442 C443 G444 G445 G446 A451 A452 G453 G454 G455 A456 G457 U458 A459 A460 U463 U464 A465 A466 U467 A468 C469 G474 C475 U476 C477 A478 U479 U480 G481 A482 C483 G484 U485
U486 G494 A495 A496 G497 A498 A499 C500 C501 A502 C503 C504 G505 G506 A509 A510 C511 U512 C513 G517 C518 C519 A520 G521 C522 G527 C528 G529 G530 U531 A532 A533 U534 A535 C536 G537 G538 A539 G540 G541 G542 U543 G544 C545 A546 A547 G548 C549 G550 U551 U552 A553 C556 G557 G558
A559 A560 U561 U562 A563 C564 U565 G566 G567 G568 C569 C570 U571 A572 A573 A574 G575 C576 G577 C578 A579 C580 G581 C582 A583 G584 C585 C586 A595 A596 G597 U598 C599 G604 U605 G606 A607 A608 A609 G618 U619 C620 A621 A622 C623 C624 U625 G626 G627 G628 A629 A630 G631 U632 G633 U636
C637 U638 G639 A640 U641 A642 C643 U644 G645 A649 G650 C651 U652 U653 G656 U657 C658 U659 C660 G661 U662 A663 G664 A665 G666 G667 A673 G674 A675 A676 U677 U678 C679 C680 A681 G682 G683 U684 G685 U686 A687 G688 C689 G690 G691 U692 G693 A694 A695 G700 U701 A702 G703 A704 G705 A706
U707 C708 U709 G710 G711 A712 A715 A716 U717 A718 C719 C720 G721 G722 U723 G724 A728 A729 G730 G731 C732 G733 G734 C735 C736 C737 U740 G741 G742 A743 C744 G745 A746 A747 G748 A749 C750 U751 C754 G755 C756 U757 C758 A759 G760 G761 G765 A766 A767 A768 G769 C770 G771 U772 G773
G774 G775 G776 A777 G778 C779 A780 A781 A782 C783 A784 G785 G786 A787 A790 G791 A792 U793 A794 C795 C796 C797 U798 G799 G800 U801 A802 G803 U804 C805 C806 G809 C810 C811 G812 U813 A814 A815 A816 C817 G821 U822 C823 G824 U827 U828 G829 G833 U834 U835 G836 U837 C840 C841
U842 U843 G844 A845 G846 G847 C848 G851 G852 C853 U854 U855 G858 G859 A860 G861 C862 U863 A864 A865 C866 G867 C868 G869 U870 U871 A872 A873 G874 A878 G881 C882 C883 G886 G887 G888 A889 G890 U891 A892 C893 G898 C899 A900 A901 G902 G903 A906 A907 A908 A909 C910 U911
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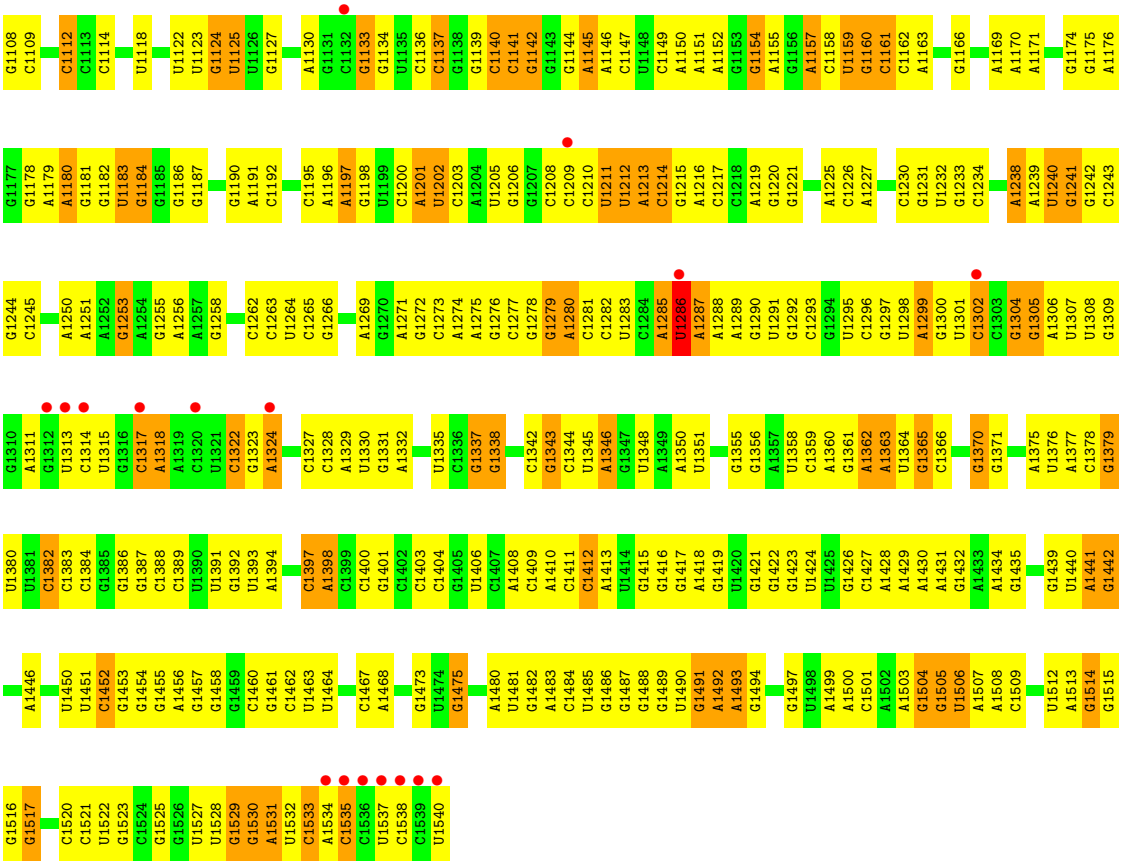
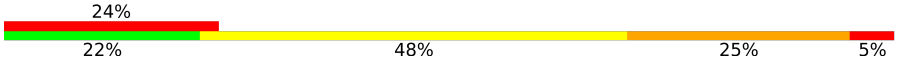
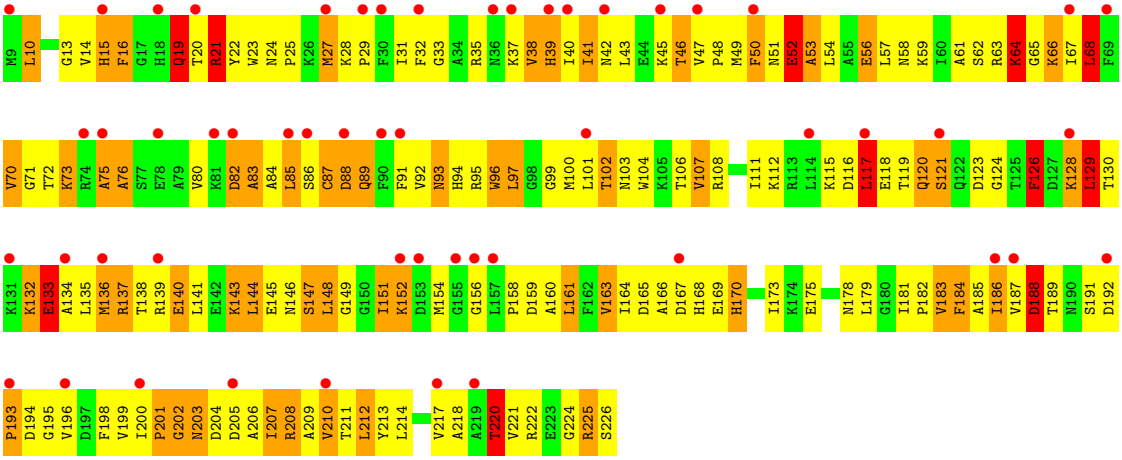


• Molecule 2: 30S ribosomal protein S2

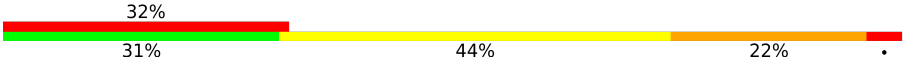
Chain AB:

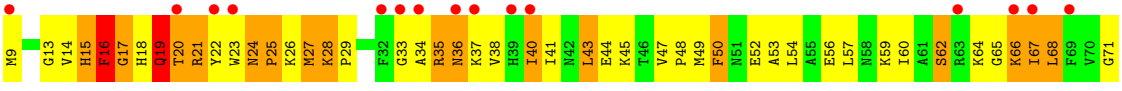


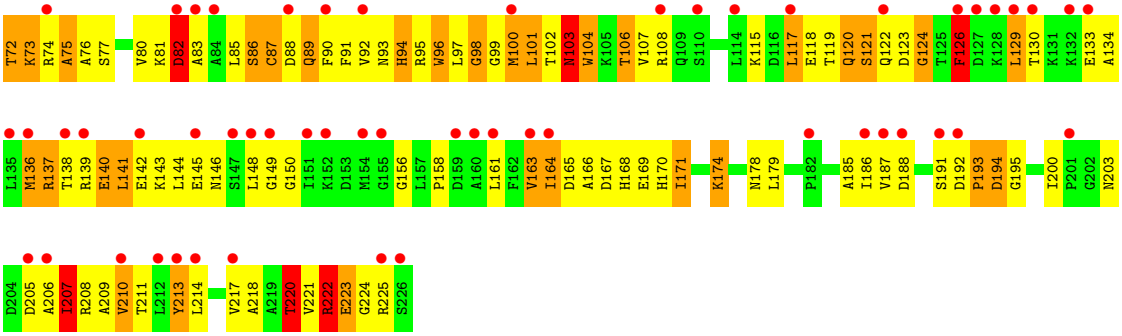


• Molecule 2: 30S ribosomal protein S2

Chain CB:

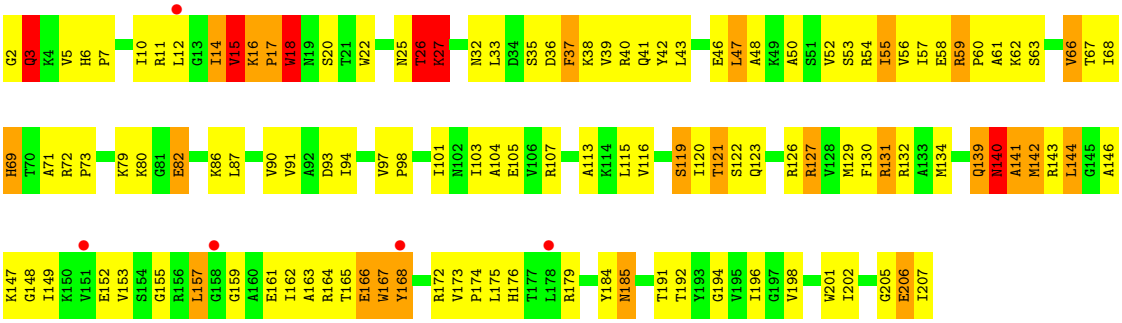






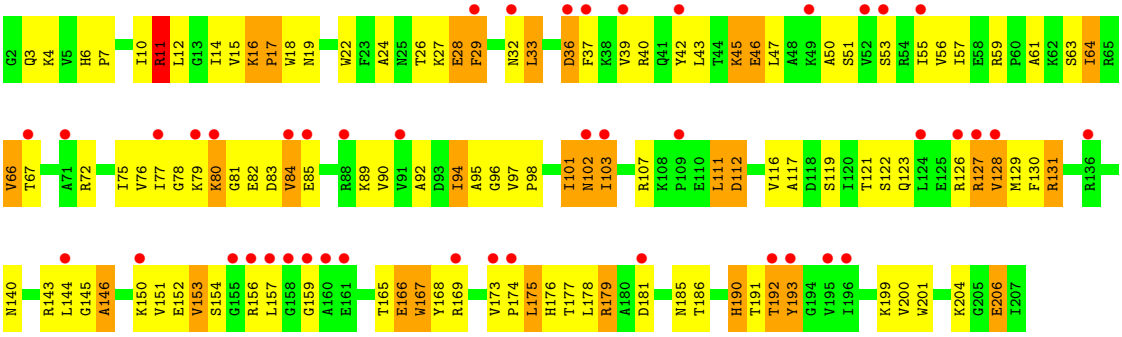
• Molecule 3: 30S ribosomal protein S3

Chain AC:



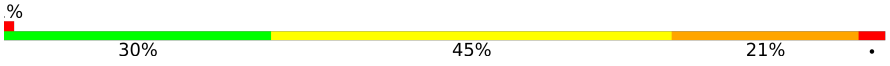
• Molecule 3: 30S ribosomal protein S3

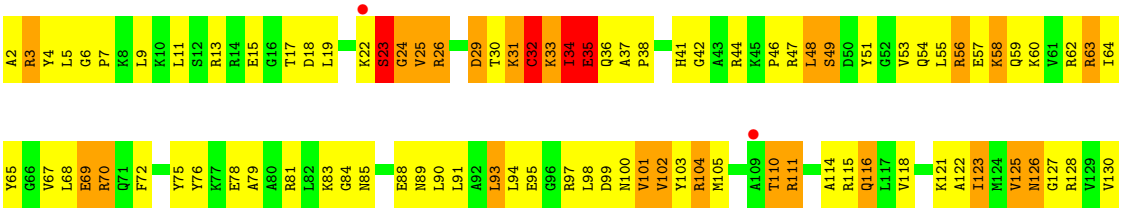
Chain CC:



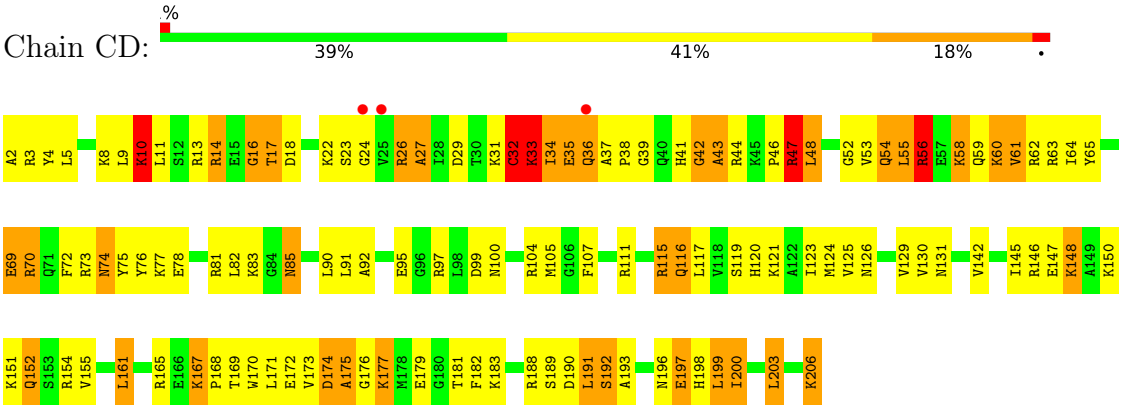
• Molecule 4: 30S ribosomal protein S4

Chain AD:

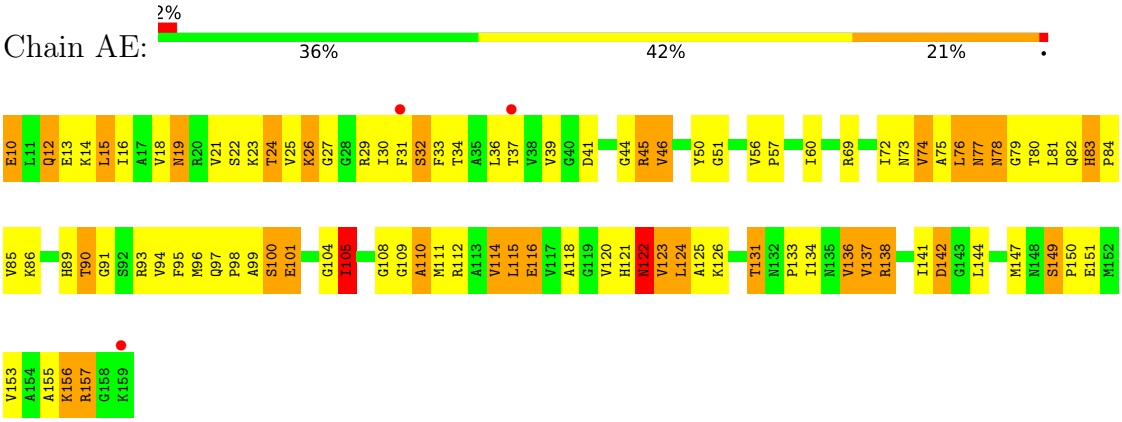




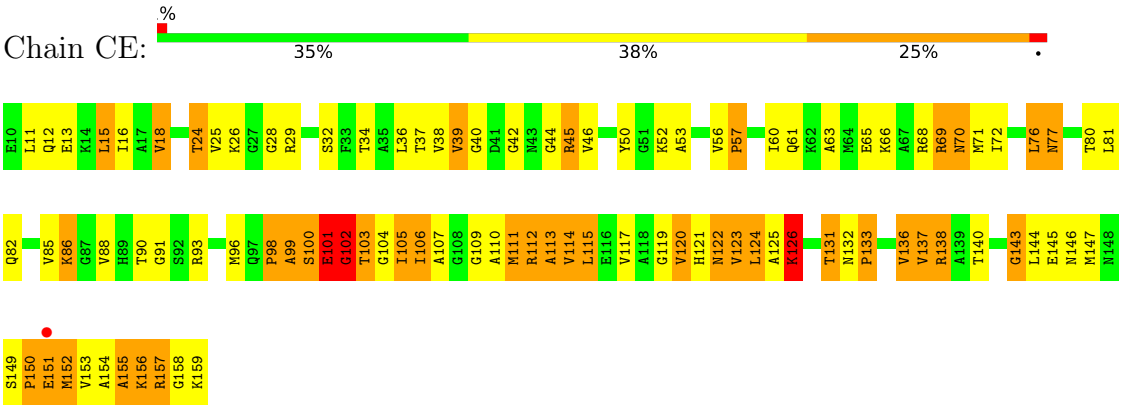
• Molecule 4: 30S ribosomal protein S4



• Molecule 5: 30S ribosomal protein S5

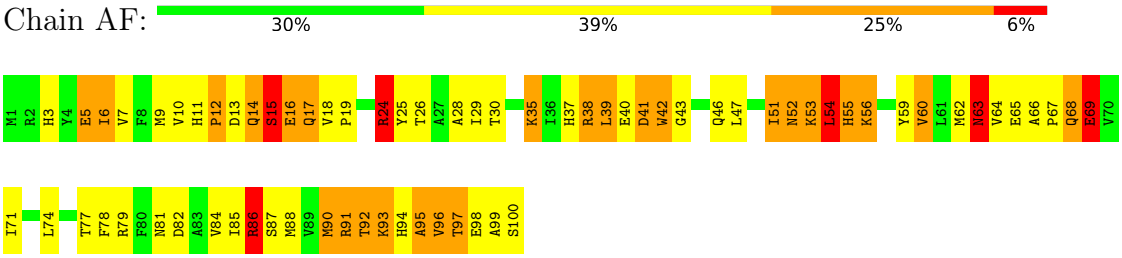


• Molecule 5: 30S ribosomal protein S5



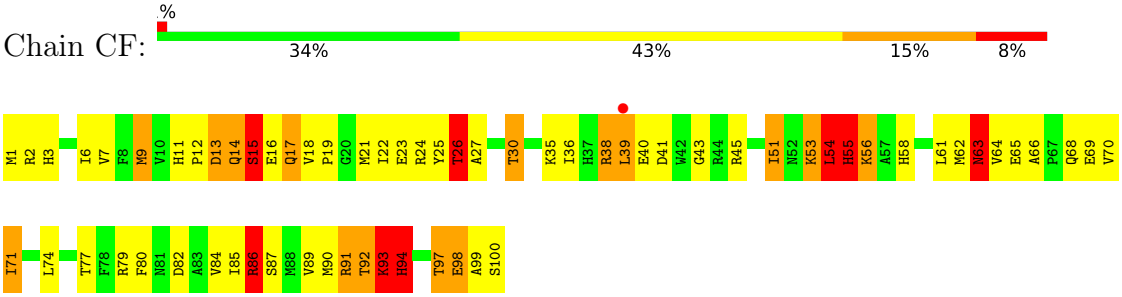
• Molecule 6: 30S ribosomal protein S6

Chain AF:



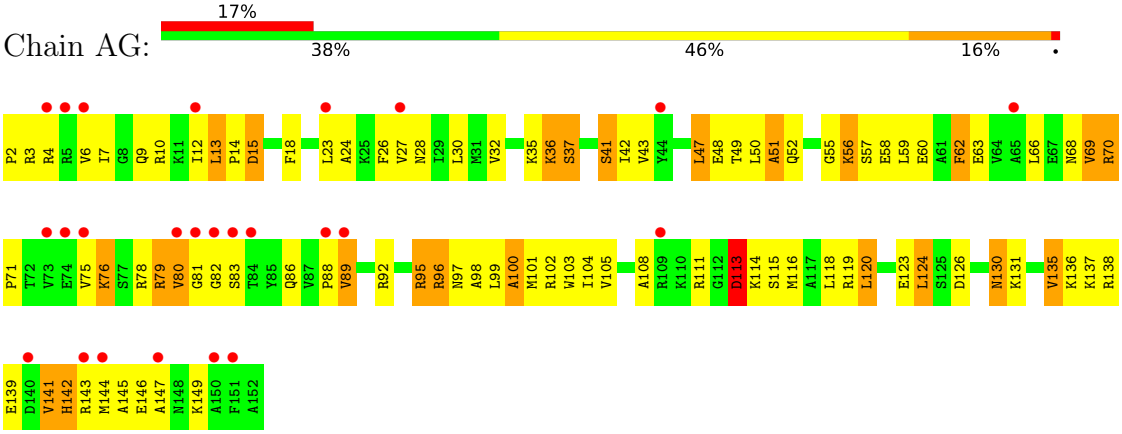
• Molecule 6: 30S ribosomal protein S6

Chain CF:



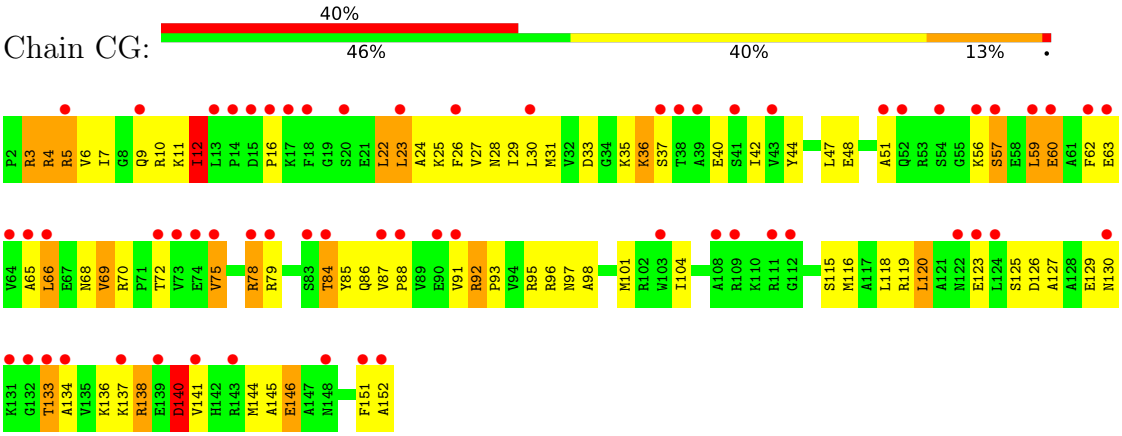
• Molecule 7: 30S ribosomal protein S7

Chain AG:



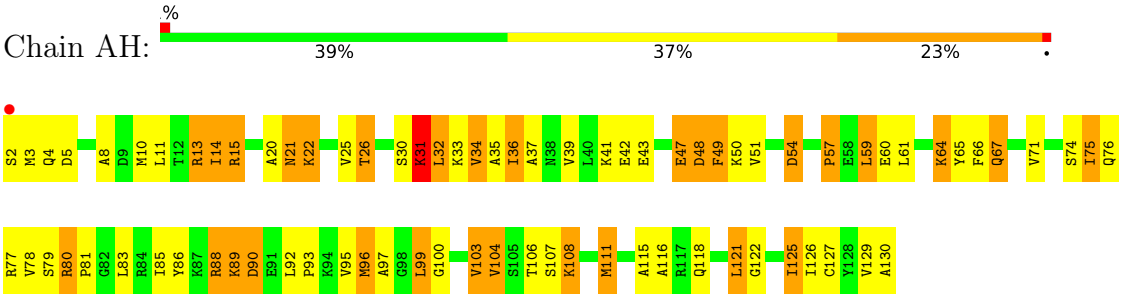
• Molecule 7: 30S ribosomal protein S7

Chain CG:



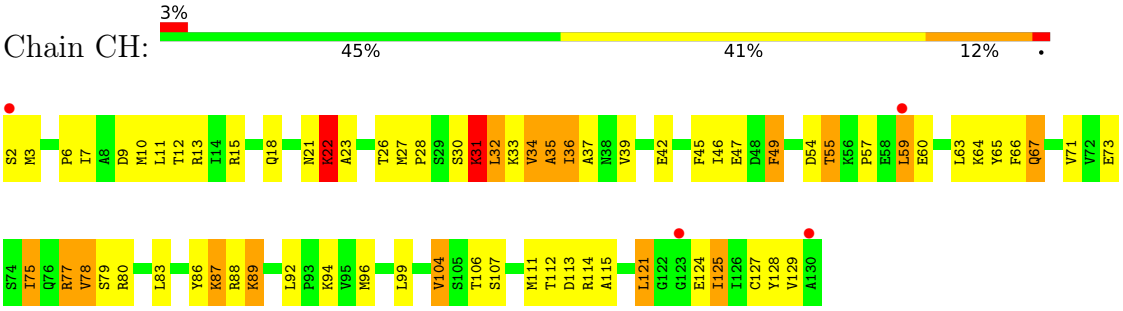
• Molecule 8: 30S ribosomal protein S8

Chain AH:



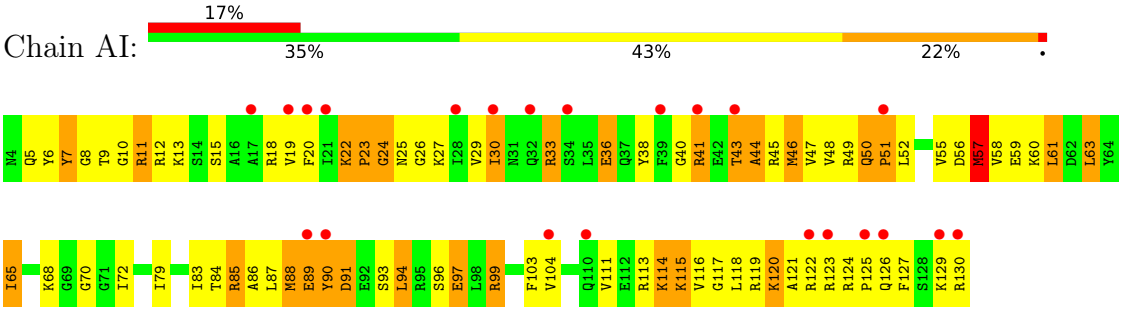
• Molecule 8: 30S ribosomal protein S8

Chain CH:



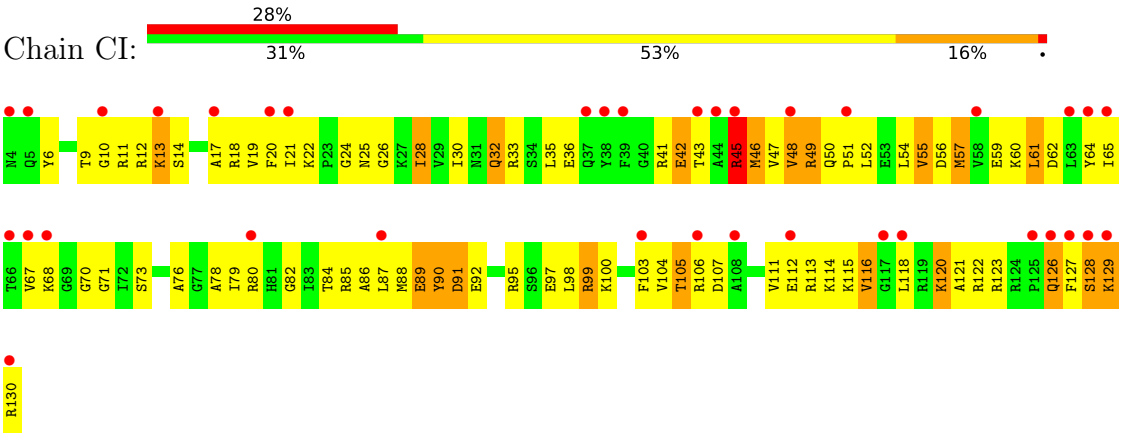
• Molecule 9: 30S ribosomal protein S9

Chain AI:



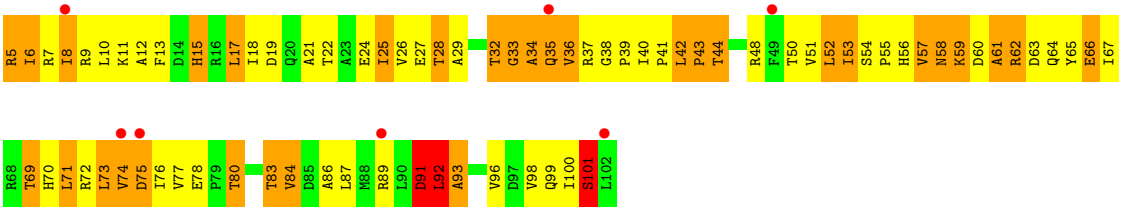
• Molecule 9: 30S ribosomal protein S9

Chain CI:



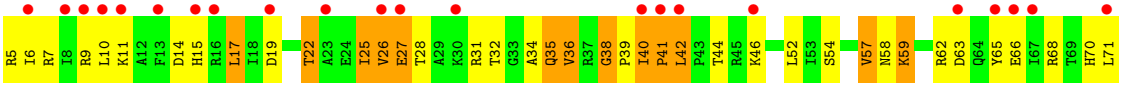
• Molecule 10: 30S ribosomal protein S10

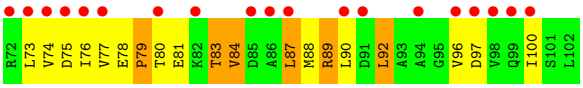
Chain AJ:



• Molecule 10: 30S ribosomal protein S10

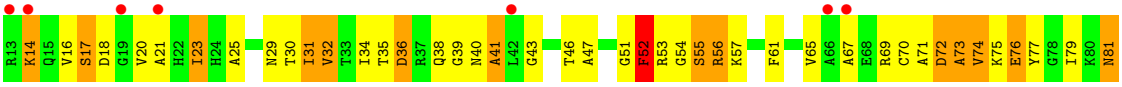
Chain CJ:

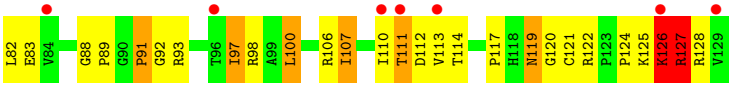




• Molecule 11: 30S ribosomal protein S11

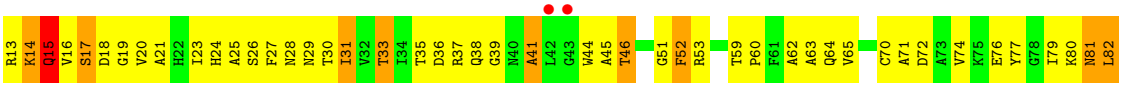
Chain AK:





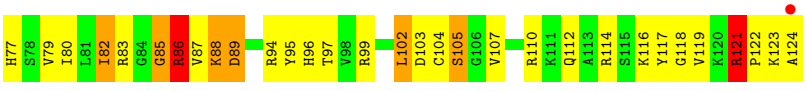
• Molecule 11: 30S ribosomal protein S11

Chain CK:



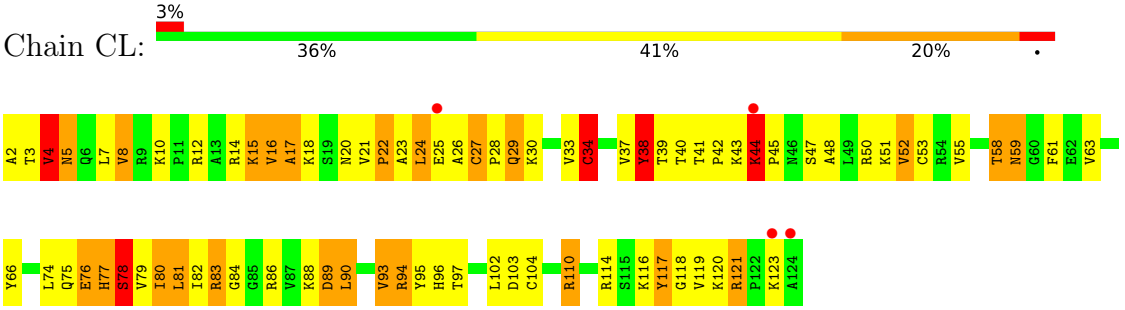
• Molecule 12: 30S ribosomal protein S12

Chain AL:



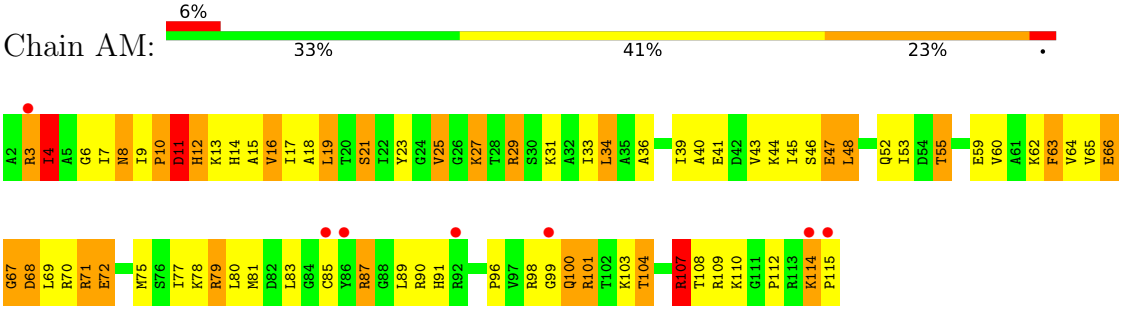
• Molecule 12: 30S ribosomal protein S12

Chain CL:



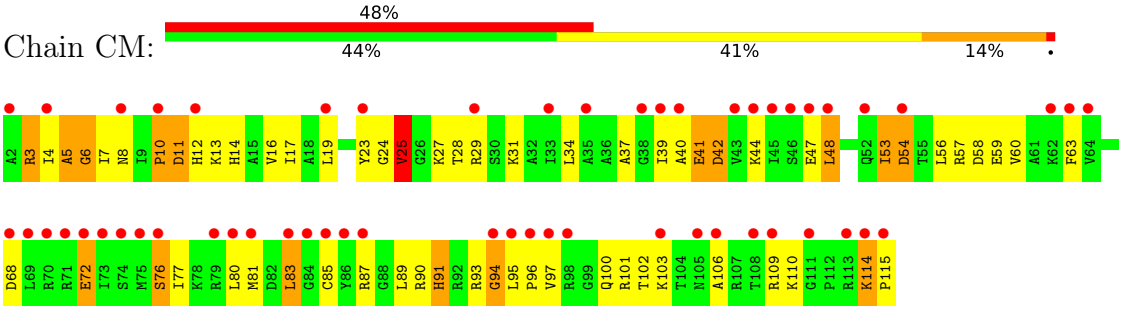
• Molecule 13: 30S ribosomal protein S13

Chain AM:



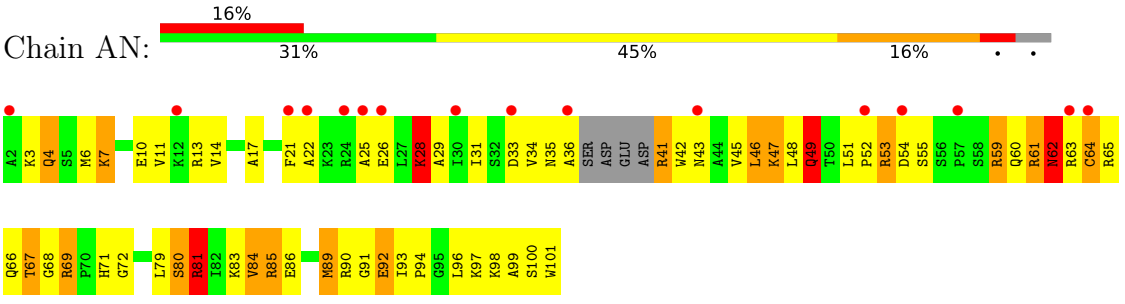
• Molecule 13: 30S ribosomal protein S13

Chain CM:



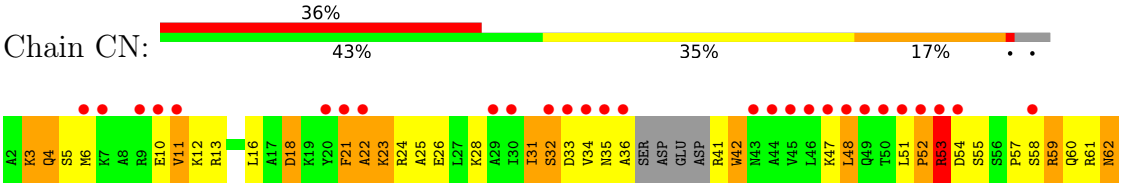
• Molecule 14: 30S ribosomal protein S14

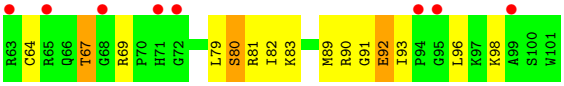
Chain AN:



• Molecule 14: 30S ribosomal protein S14

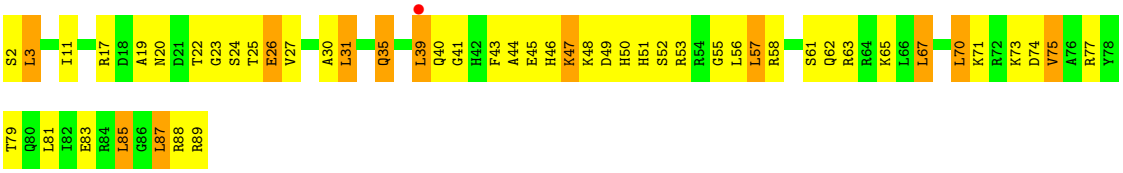
Chain CN:





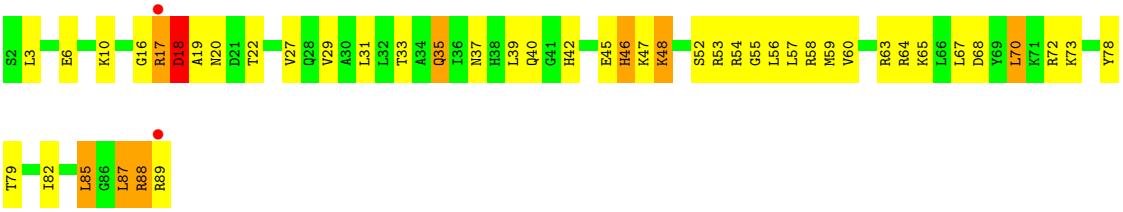
• Molecule 15: 30S ribosomal protein S15

Chain AO:



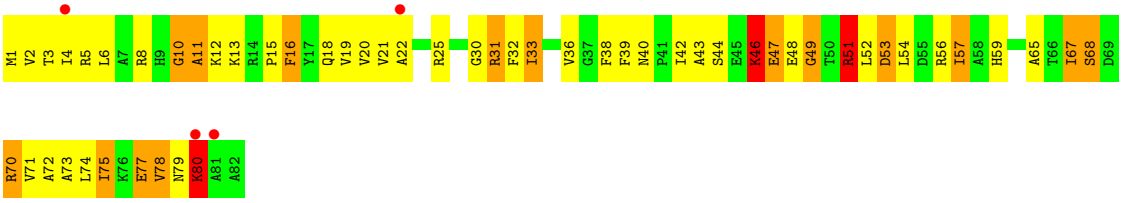
• Molecule 15: 30S ribosomal protein S15

Chain CO:



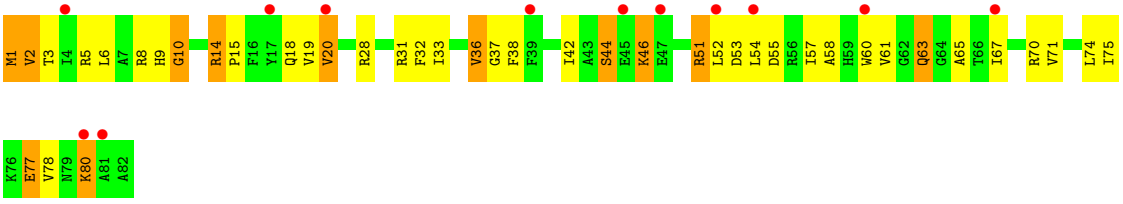
• Molecule 16: 30S ribosomal protein S16

Chain AP:



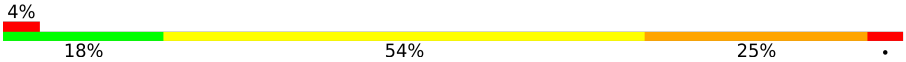
• Molecule 16: 30S ribosomal protein S16

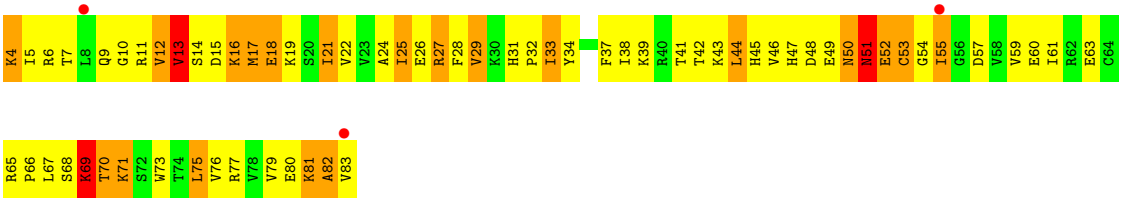
Chain CP:



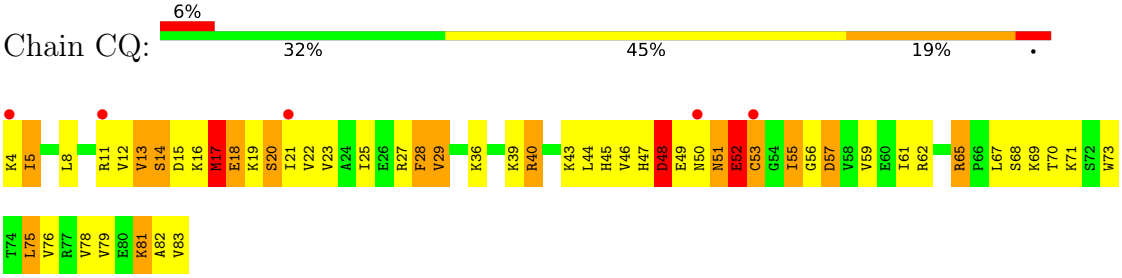
• Molecule 17: 30S ribosomal protein S17

Chain AQ:

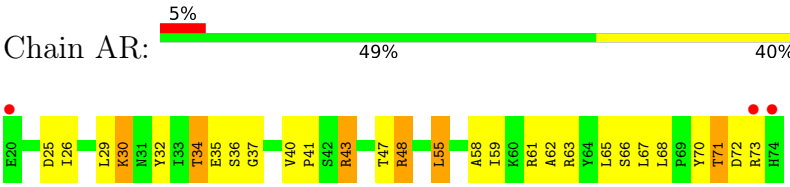




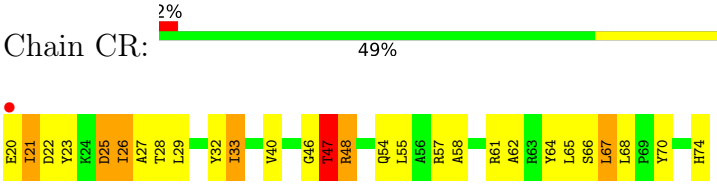
• Molecule 17: 30S ribosomal protein S17



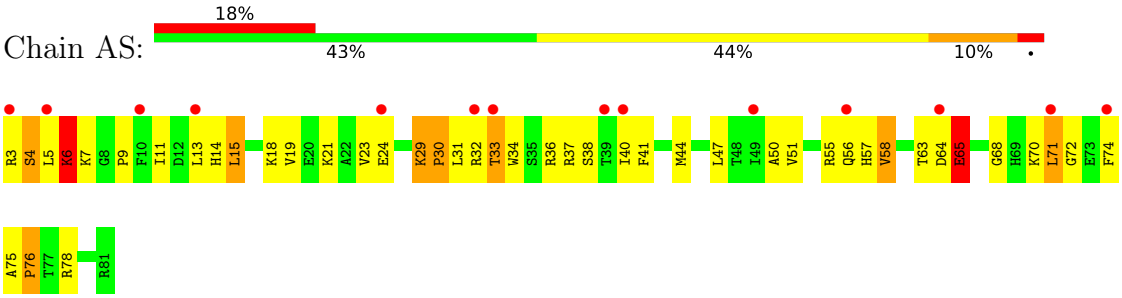
• Molecule 18: 30S ribosomal protein S18



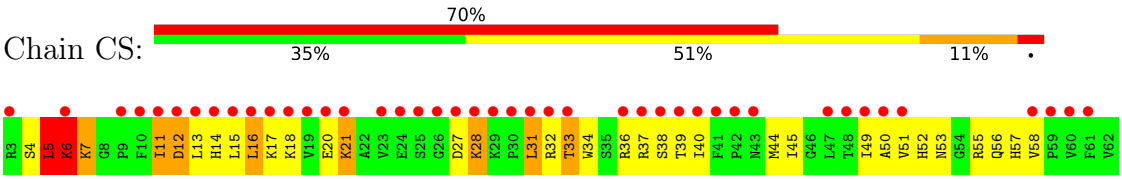
• Molecule 18: 30S ribosomal protein S18



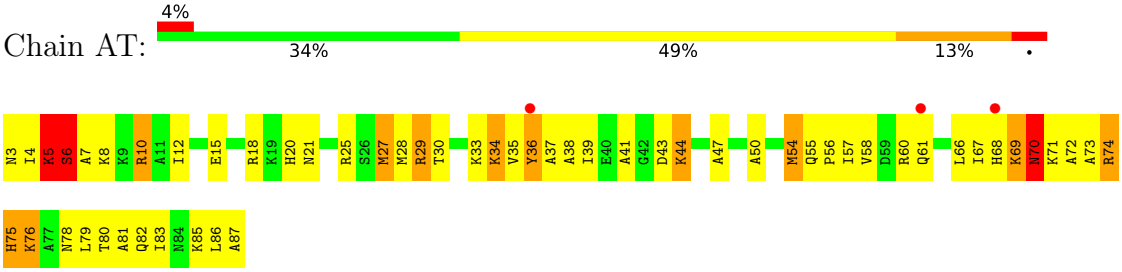
• Molecule 19: 30S ribosomal protein S19



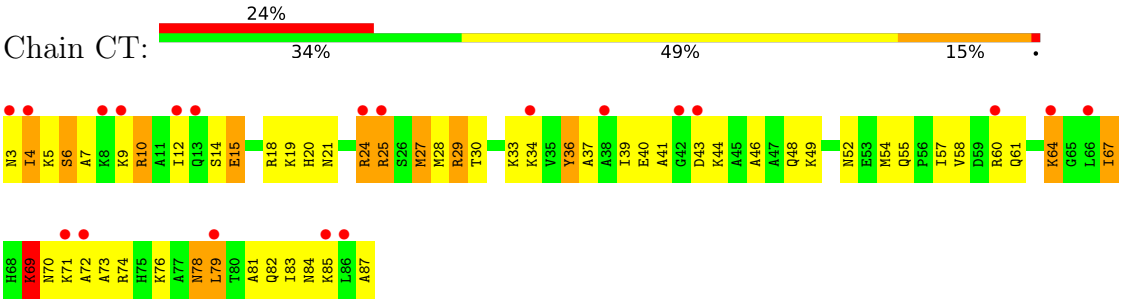
• Molecule 19: 30S ribosomal protein S19



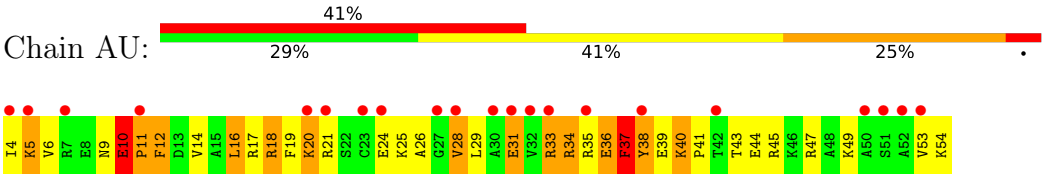
• Molecule 20: 30S ribosomal protein S20



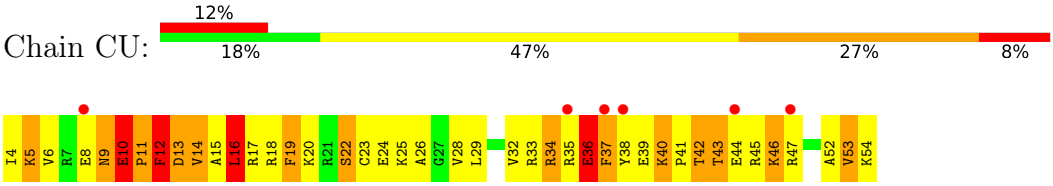
• Molecule 20: 30S ribosomal protein S20



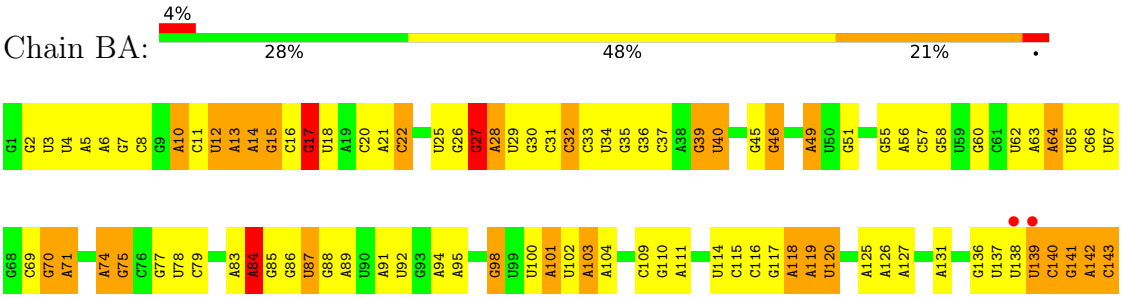
• Molecule 21: 30S ribosomal protein S21

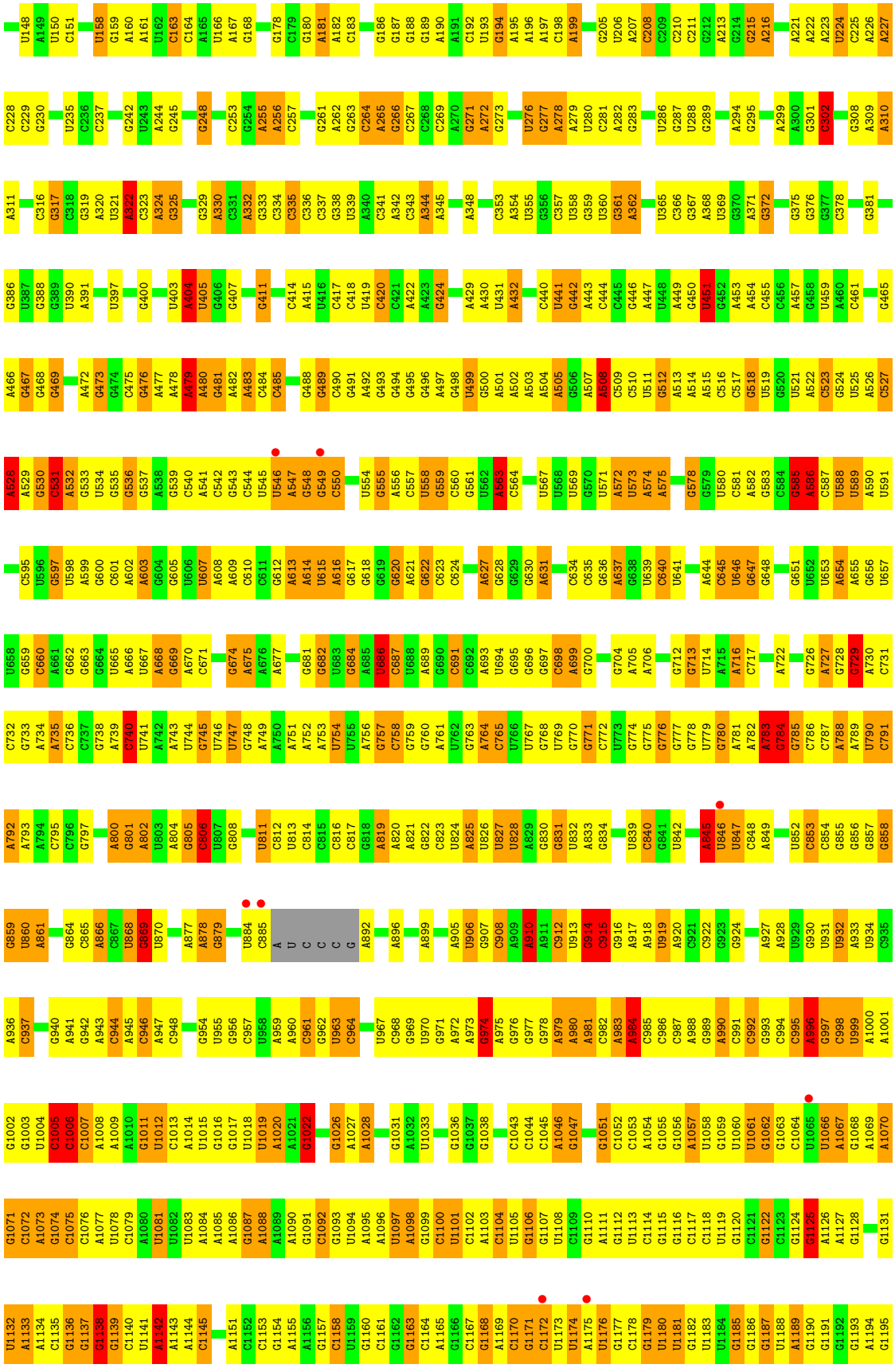


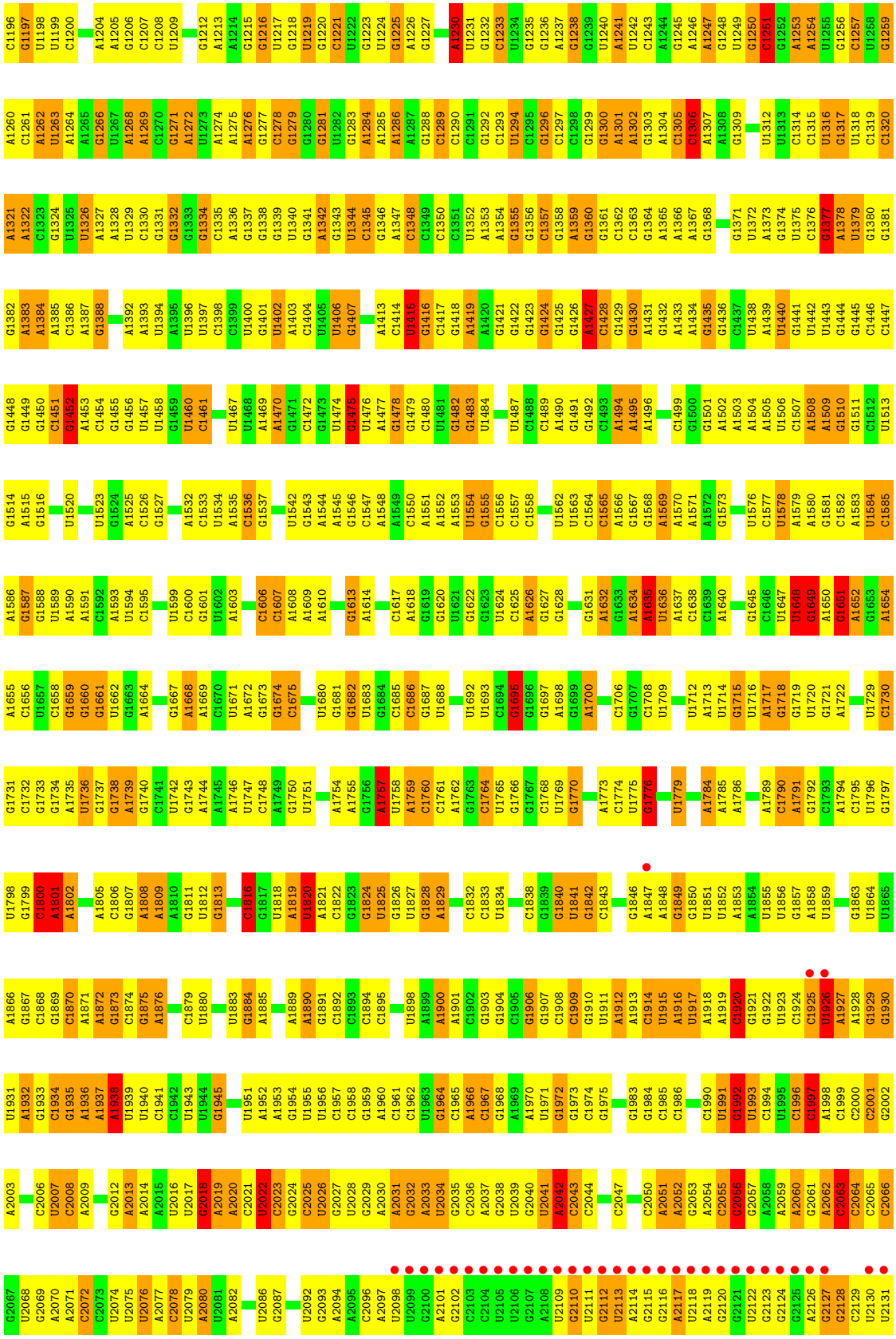
• Molecule 21: 30S ribosomal protein S21

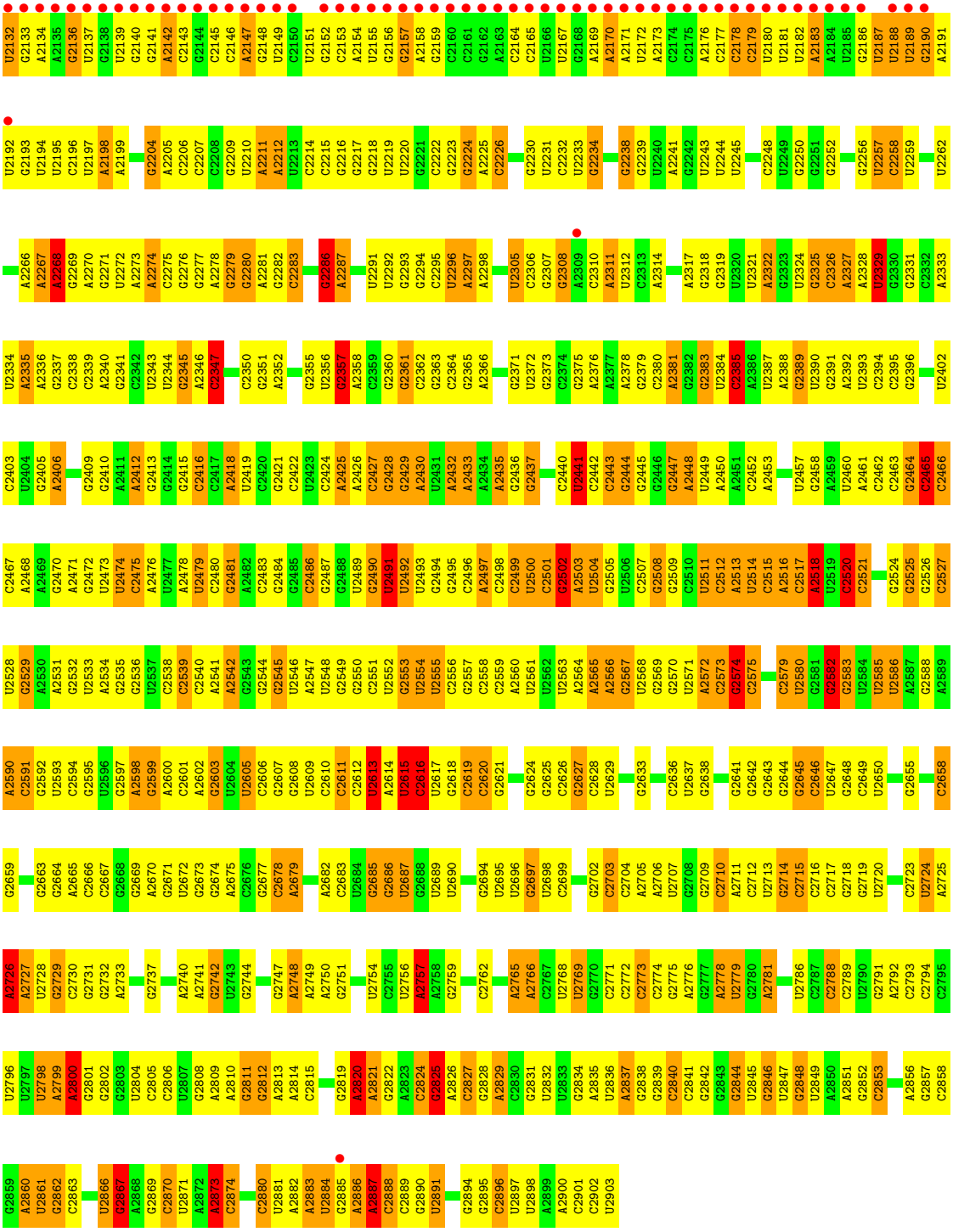


• Molecule 22: 23S rRNA

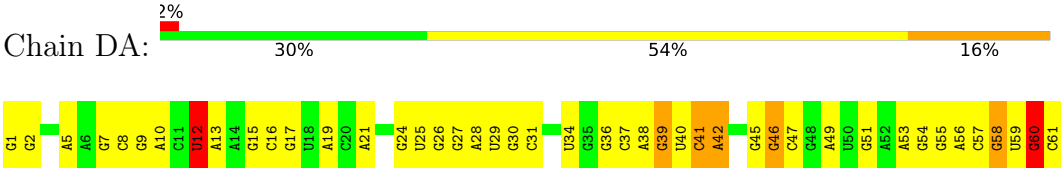


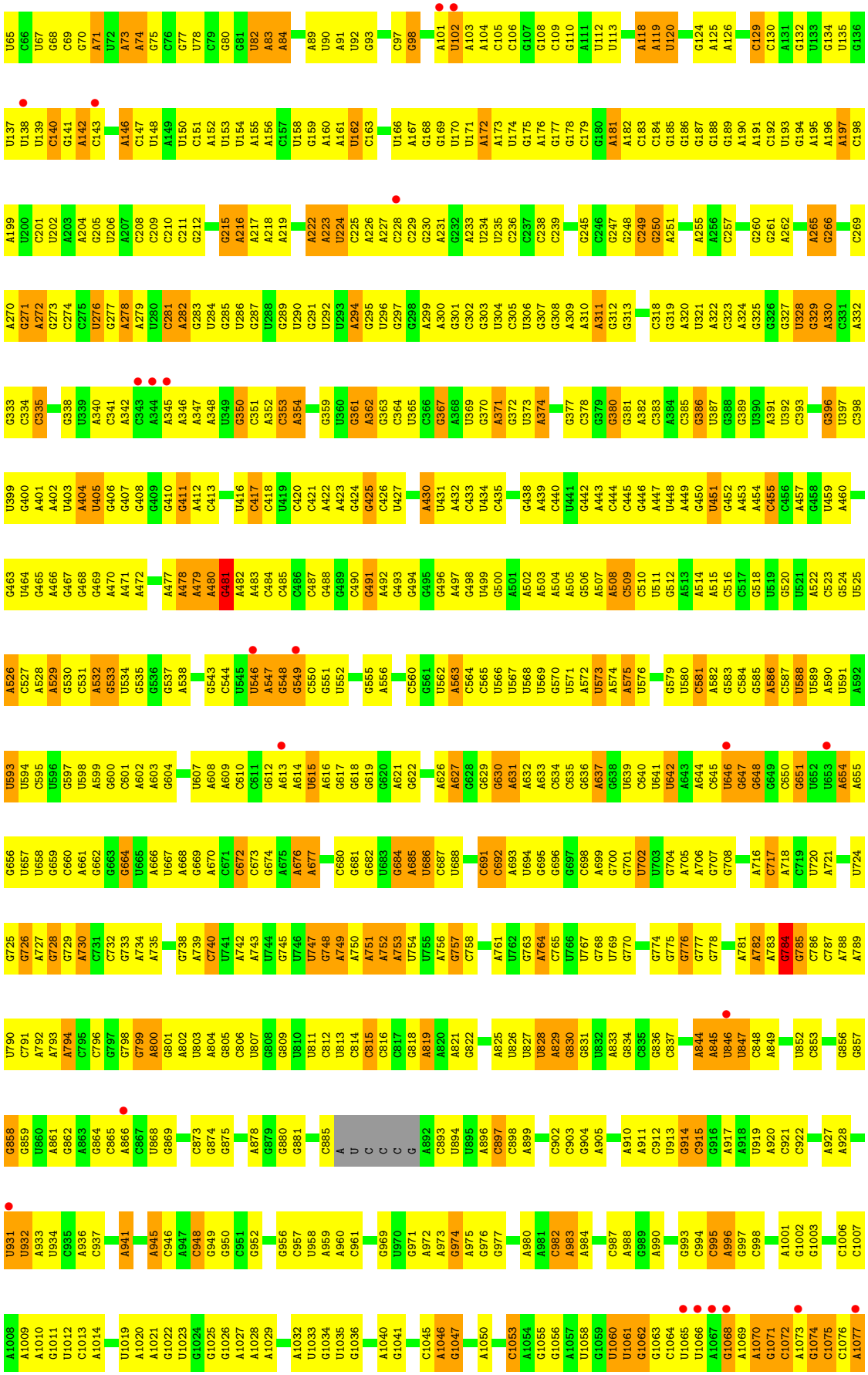






• Molecule 22: 23S rRNA

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U137 U138 U139 C140 G141 A142 C143 A146 C147 U148 A149 U150 C151 A152 U153 U154 A155 A156 C157 U158 G159 A160 A161 U162 C163 U166 A167 G168 G169 U170 U171 A172 A173 U174 G175 A176 G177 G178 C179 G180 A181 A182 C183 C184 G185 G186 G187 G188 G189 A190 A191 C192 U193 G194 A195 A196 A197 C198
A199 U200 C201 U202 A203 A204 G205 U206 A207 C208 C209 C210 C211 G212 G215 A216 A217 A218 A219 A222 A223 U224 C225 A226 A227 C228 C229 G230 A231 G232 A233 U234 U235 C236 C237 C238 C239 G245 G246 G247 G248 C249 G250 A251 A255 A256 C257 C260 G261 A262 A265 G266 C269
A270 G271 A272 G273 C274 C275 U276 G277 A278 A279 U280 C281 A282 G283 U284 G285 U286 G287 U288 G289 U290 G291 U292 U293 A294 G295 U296 G297 G298 A299 A300 G301 C302 G303 U304 C305 U306 G307 G308 A309 A310 A311 G312 G313 C318 G319 A320 U321 A322 C323 A324 G325 G326 G327 U328 G329 A330 C331 A332
G333 C334 C335 G338 U339 A340 C341 A342 C343 A344 A345 A346 A347 A348 U349 G350 C351 A352 C353 A354 G359 U360 G361 A362 G363 C364 U365 C366 G367 A368 U369 G370 A371 G372 U373 A374 G377 C378 G379 G380 G381 A382 C383 A384 C385 G386 U387 G388 G389 U390 A391 U392 C393 G396 U397 C398
U399 G400 A401 A402 U403 A404 U405 C406 G407 G408 G409 G410 G411 A412 C413 U416 C417 C418 U419 C420 C421 A422 A423 G424 G425 C426 U427 A430 U431 A432 C433 U434 C435 G438 A439 C440 U441 G442 A443 C444 C445 G446 A447 U448 A449 G450 U451 G452 A453 A454 C455 C456 A457 G458 U459 A460
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A526 C527 A528 A529 G530 C531 A532 G533 U534 G535 G536 G537 A538 G543 C544 U545 U546 A547 G548 G549 C550 G551 U552 G555 A556 C560 G561 U562 A563 C564 C565 U566 U567 U568 U569 G570 U571 A572 U573 A574 A575 U576 G579 U580 C581 A582 G583 C584 G585 A586 C587 U588 U589 A590 U591 A592
U593 U594 C595 U596 G597 U598 A599 G600 C601 A602 A603 G604 U607 A608 A609 C610 C611 G612 A613 A614 U615 A616 G617 G618 G619 G620 A621 G622 A626 A627 G628 G629 G630 A631 A632 A633 C634 C635 G636 A637 G638 U639 C640 U641 U642 A643 A644 C645 U646 G647 G648 G649 C650 G651 U652 U653 A654 A655
G656 U657 U658 G659 C660 A661 G662 G663 G664 U665 A666 U667 A668 G669 A670 C671 C672 C673 G674 A675 A676 A677 C680 G681 G682 U683 G684 A685 U686 C687 U688 C691 C692 A693 U694 G695 G696 G697 C698 A699 G700 G701 U702 U703 G704 A705 A706 G707 G708 A716 C717 A718 C719 U720 A721 U724
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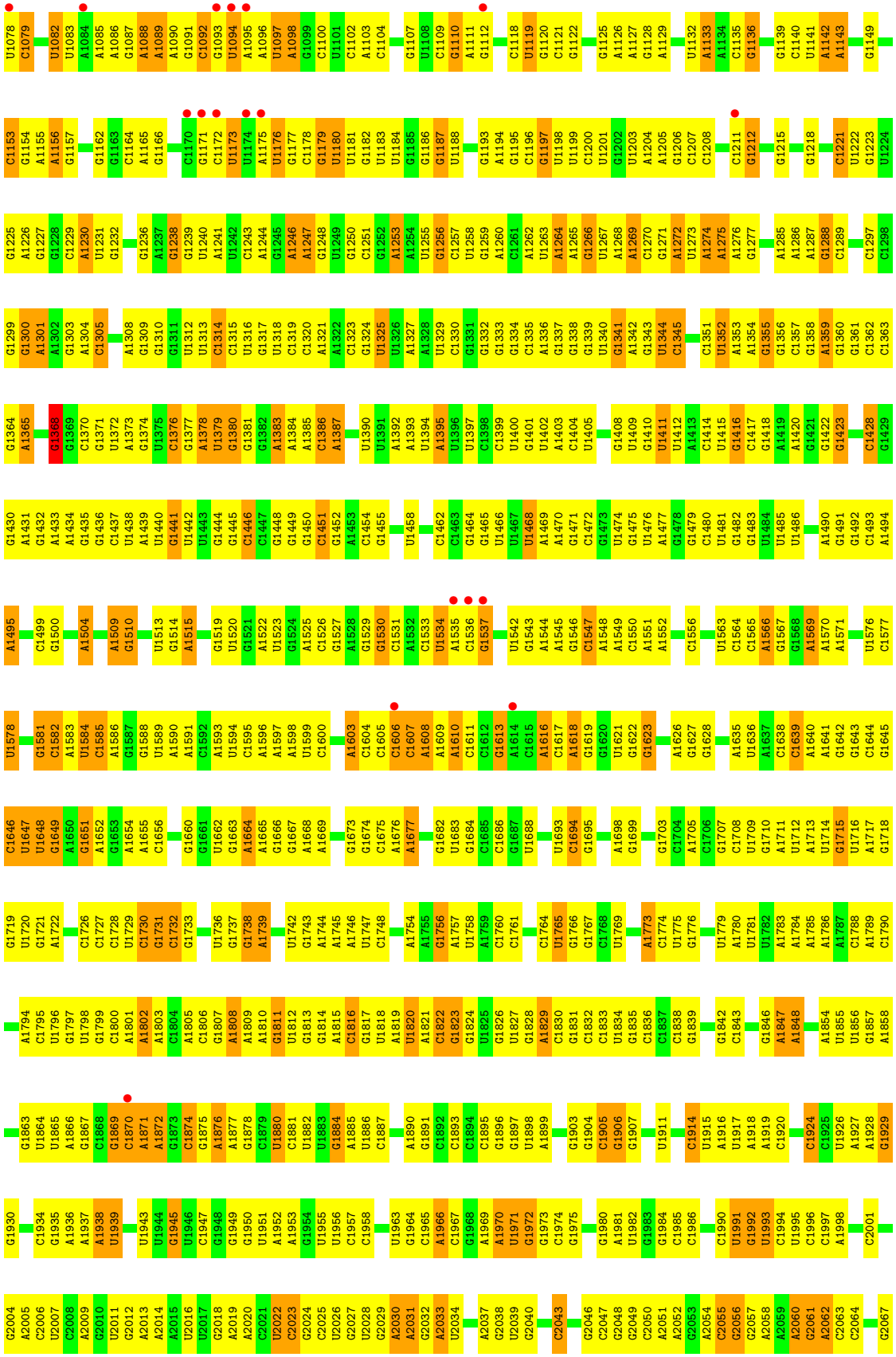
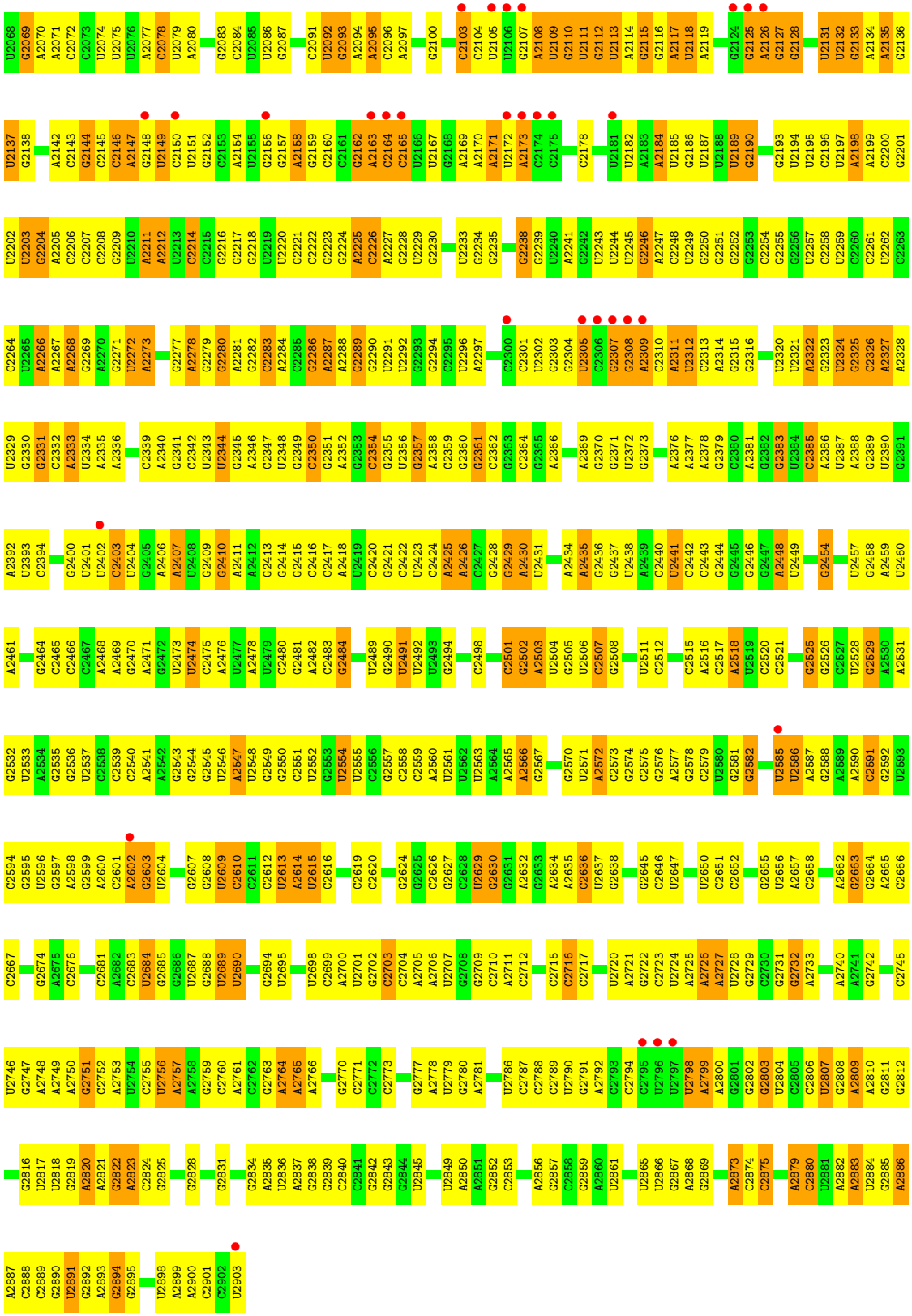
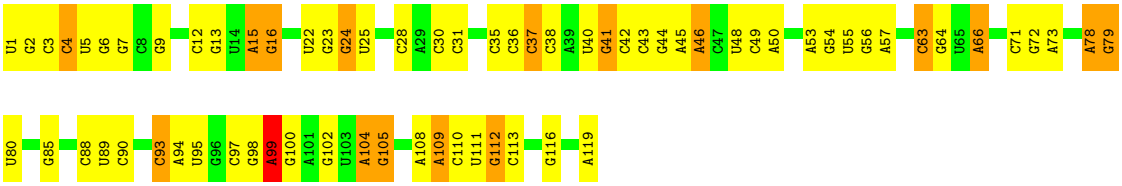
A1008 A1009 A1010 G1011 U1012 C1013 A1014 U1019 A1020 A1021 G1022 U1023 G1024 G1025 G1026 A1027 A1028 A1029 A1032 U1033 G1034 U1035 G1036 A1040 G1041 C1045 A1046 G1047 A1050 C1053 A1054 G1055 G1056 A1057 U1058 G1059 U1060 U1061 G1062 G1063 C1064 U1065 U1066 A1067 G1068 A1069 A1070 G1071 C1072 A1073 G1074 C1075 C1076 A1077





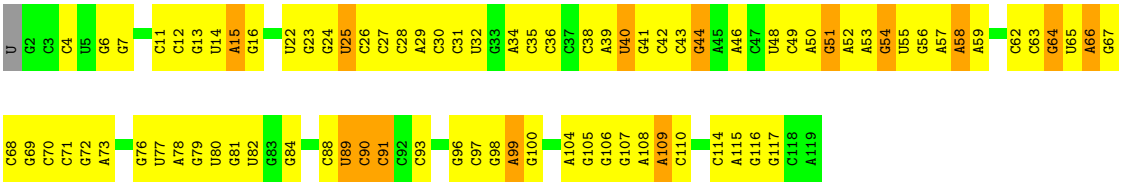
• Molecule 23: 5S rRNA

Chain BB:



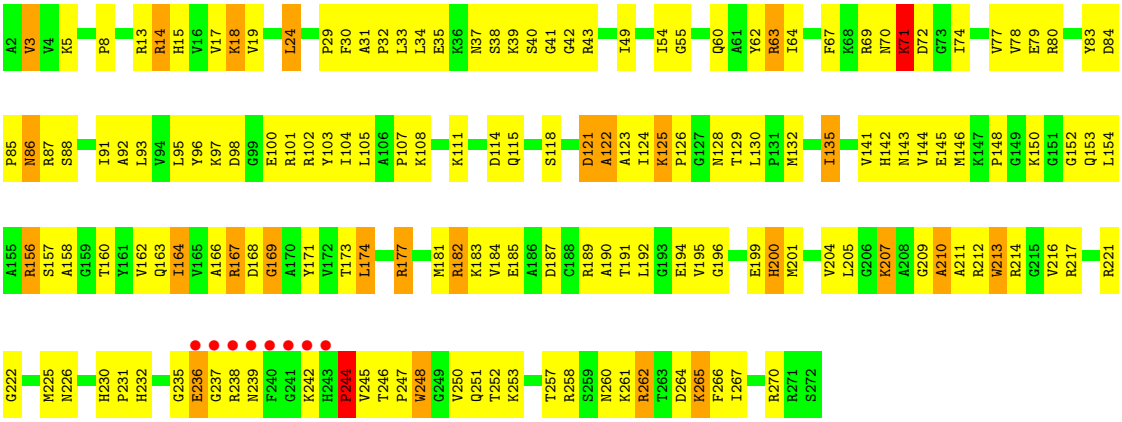
• Molecule 23: 5S rRNA

Chain DB:



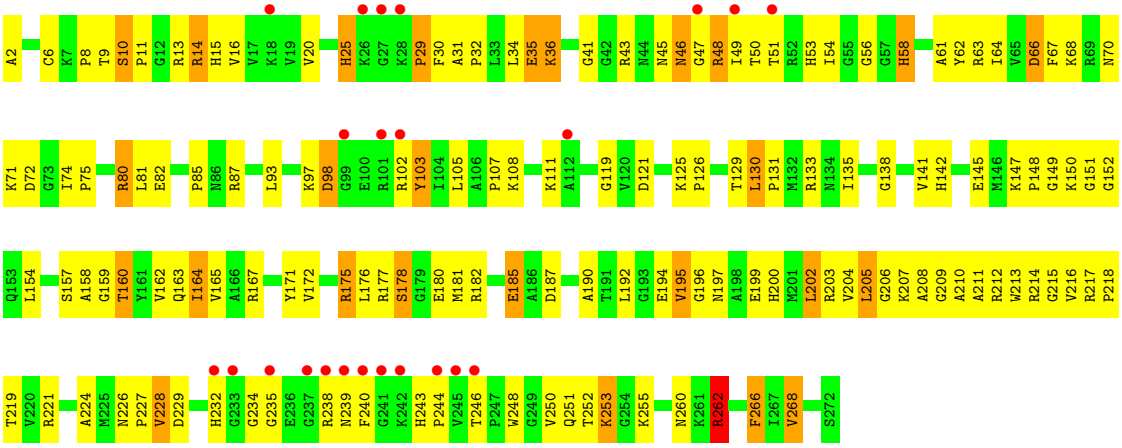
• Molecule 24: 50S ribosomal protein L2

Chain BC:



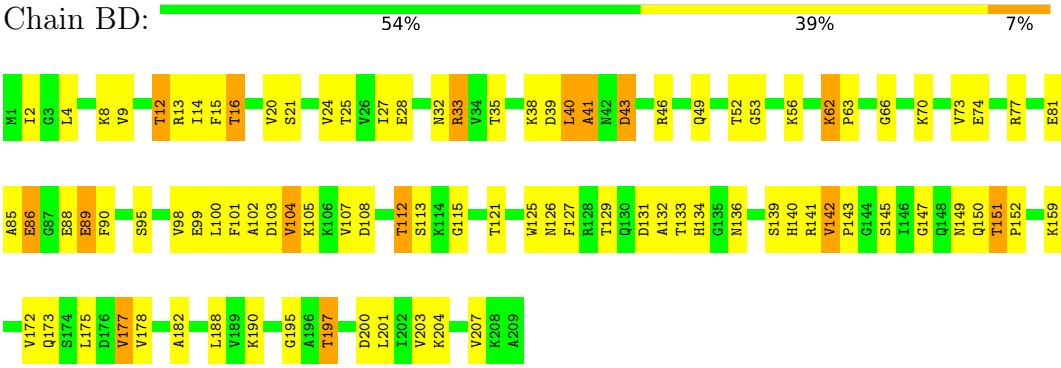
• Molecule 24: 50S ribosomal protein L2

Chain DC:



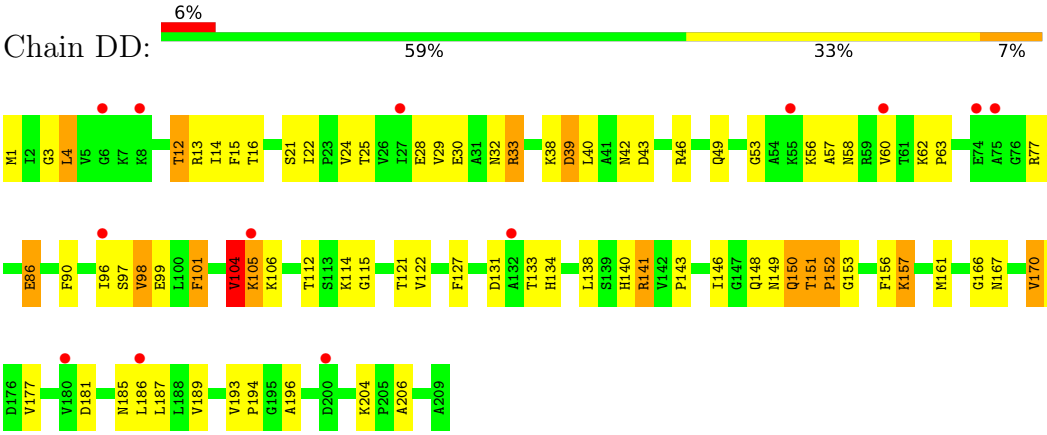
• Molecule 25: 50S ribosomal protein L3

Chain BD:



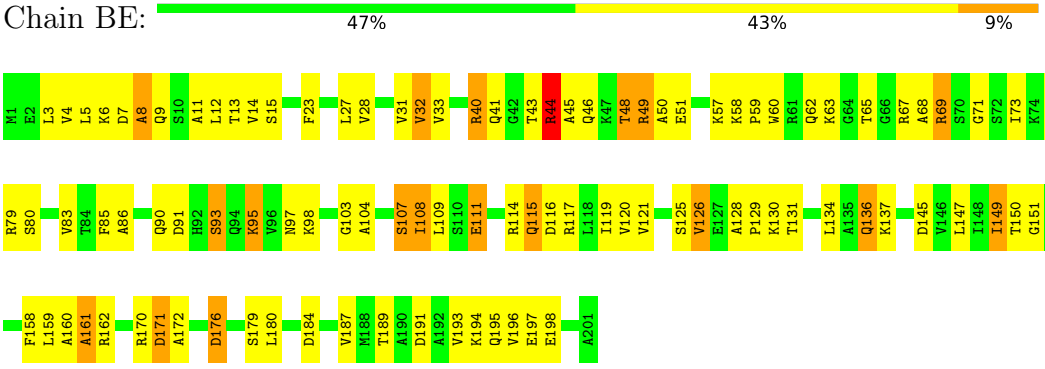
• Molecule 25: 50S ribosomal protein L3

Chain DD:



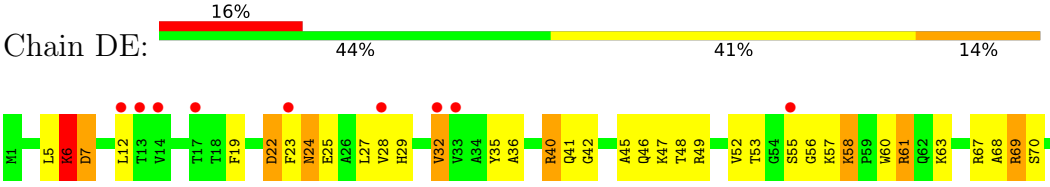
• Molecule 26: 50S ribosomal protein L4

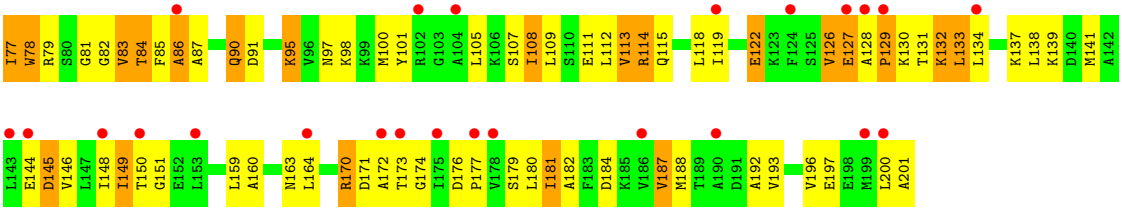
Chain BE:



• Molecule 26: 50S ribosomal protein L4

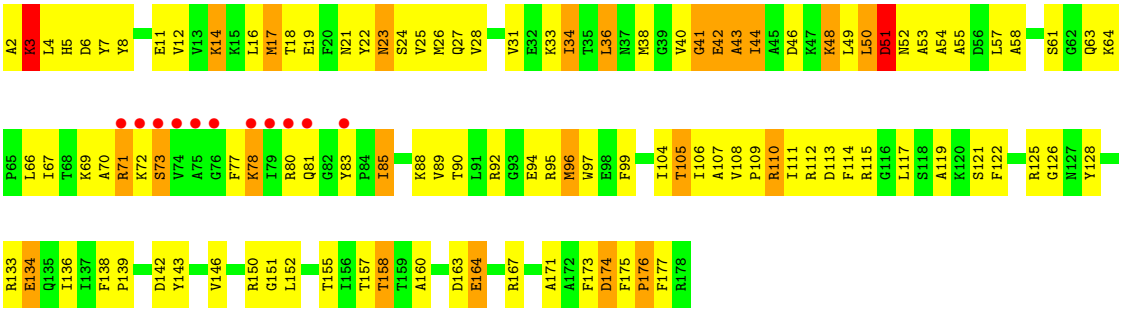
Chain DE:





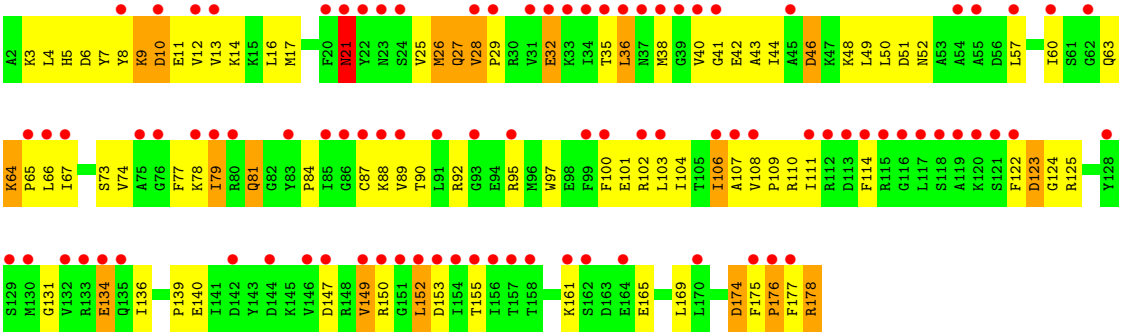
• Molecule 27: 50S ribosomal protein L5

Chain BF:



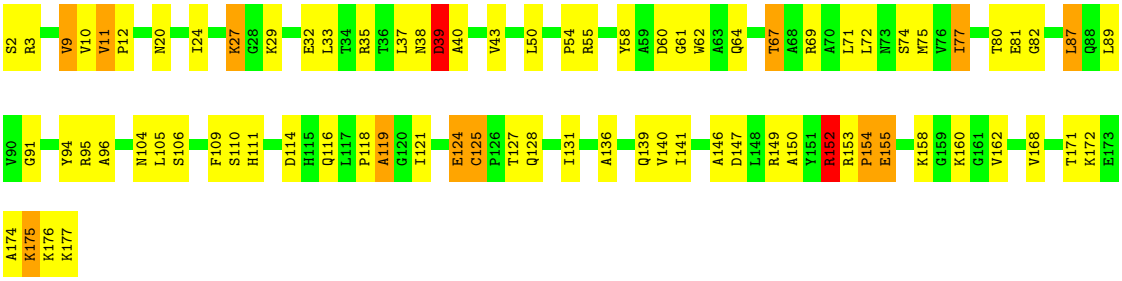
• Molecule 27: 50S ribosomal protein L5

Chain DF:



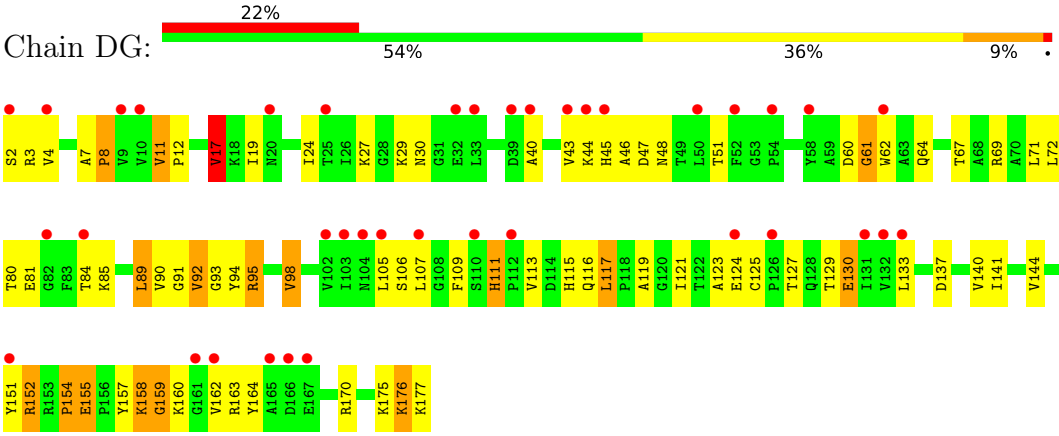
• Molecule 28: 50S ribosomal protein L6

Chain BG:



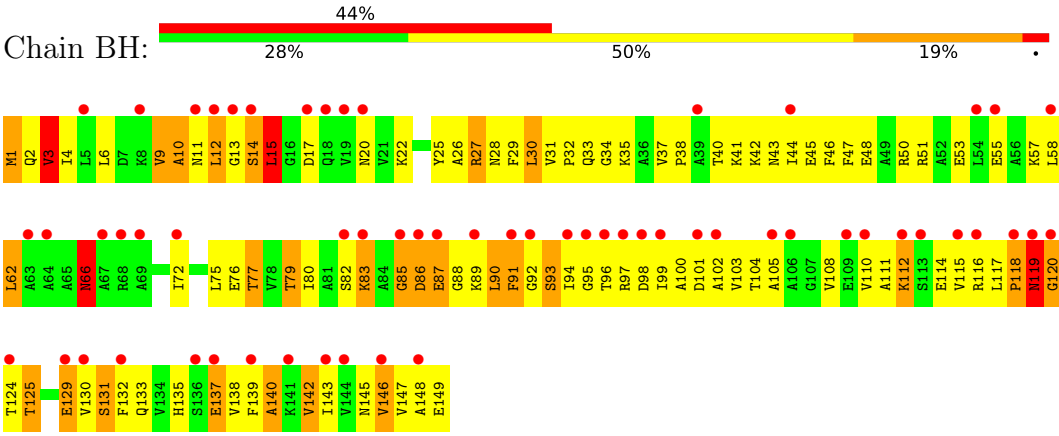
• Molecule 28: 50S ribosomal protein L6

Chain DG:



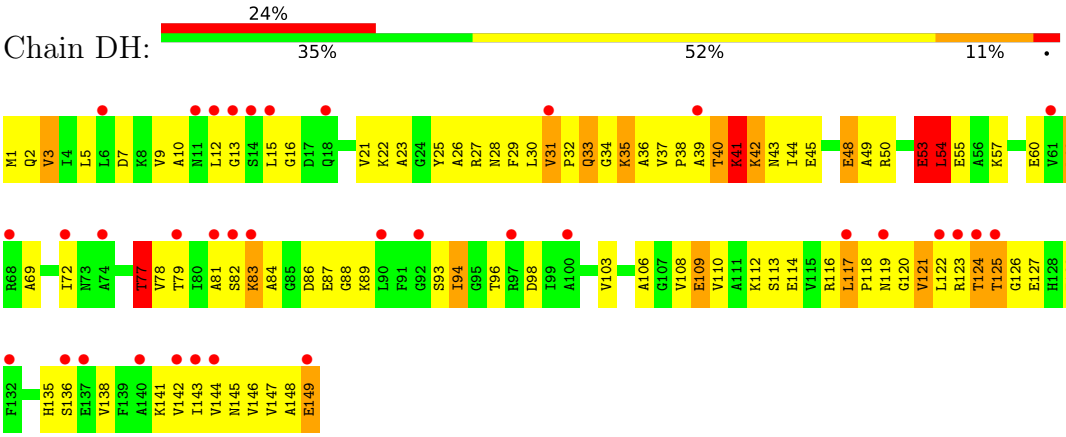
• Molecule 29: 50S ribosomal protein L9

Chain BH:



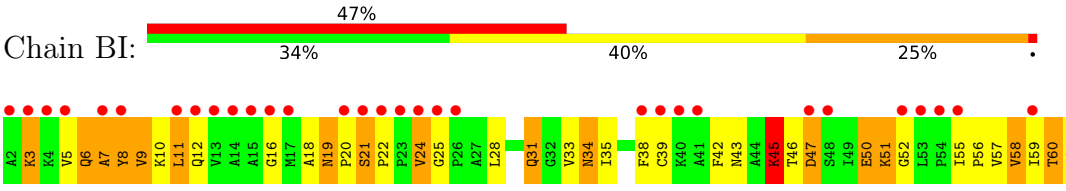
• Molecule 29: 50S ribosomal protein L9

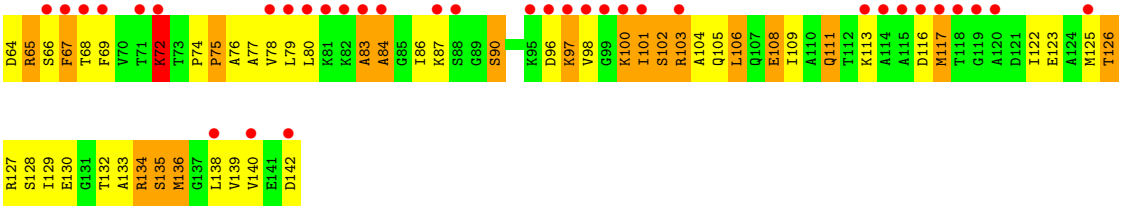
Chain DH:



• Molecule 30: 50S ribosomal protein L11

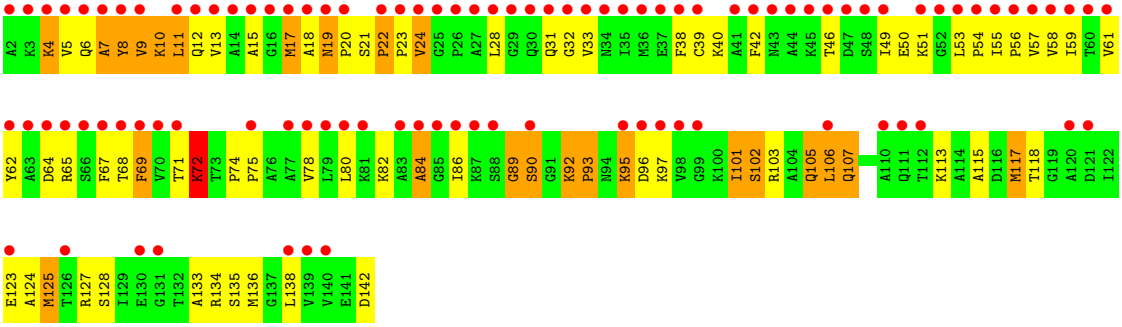
Chain BI:





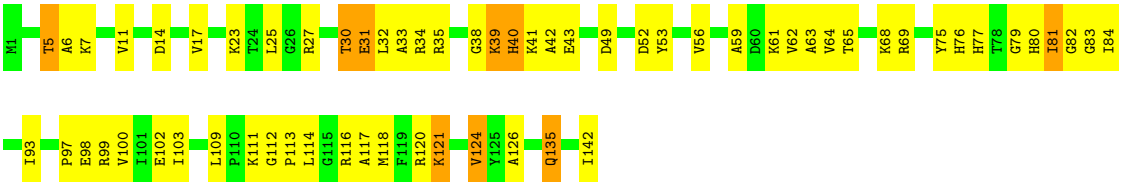
• Molecule 30: 50S ribosomal protein L11

Chain DI:



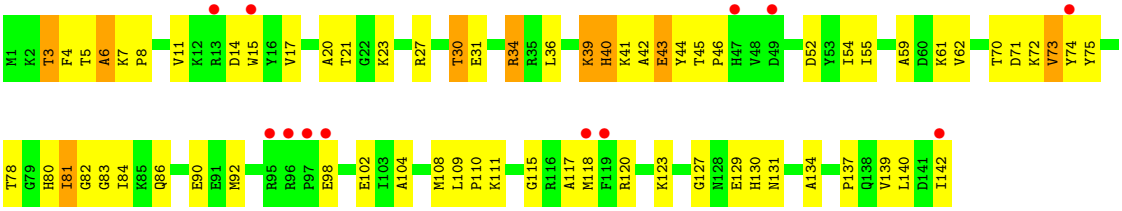
• Molecule 31: 50S ribosomal protein L13

Chain BJ:



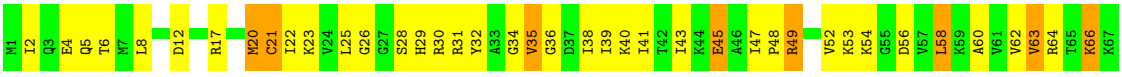
• Molecule 31: 50S ribosomal protein L13

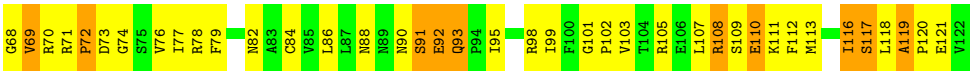
Chain DJ:



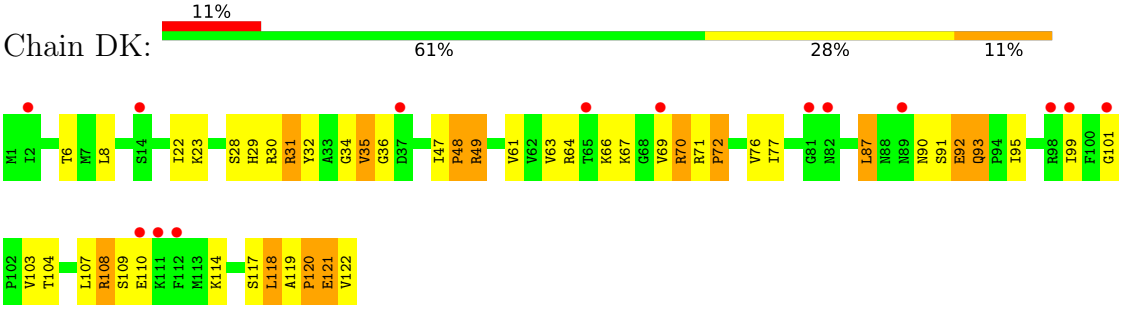
• Molecule 32: 50S ribosomal protein L14

Chain BK:

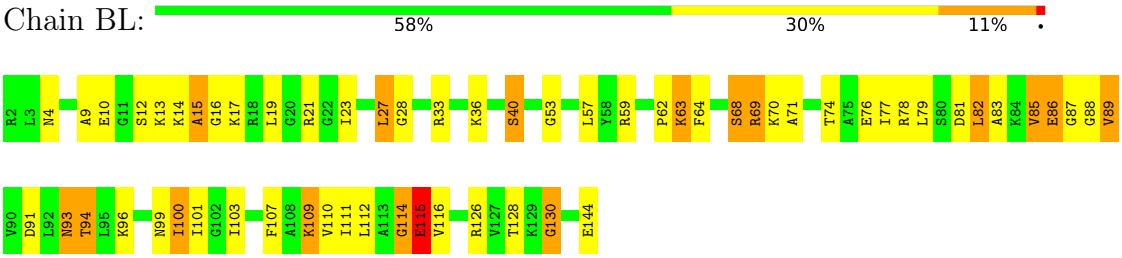




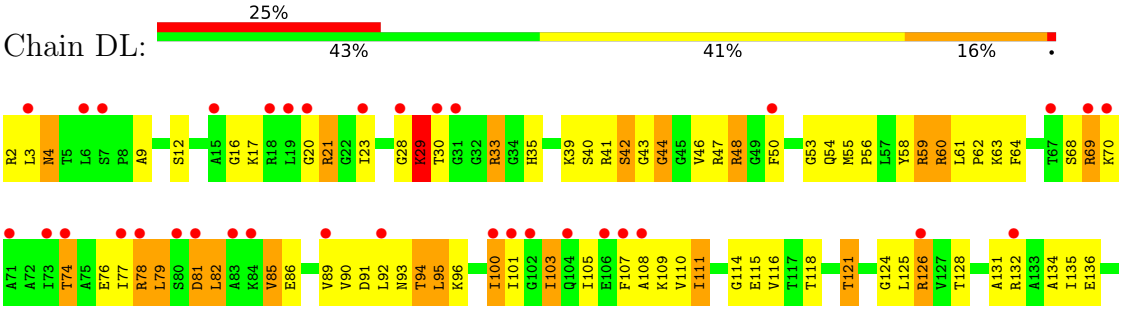
• Molecule 32: 50S ribosomal protein L14



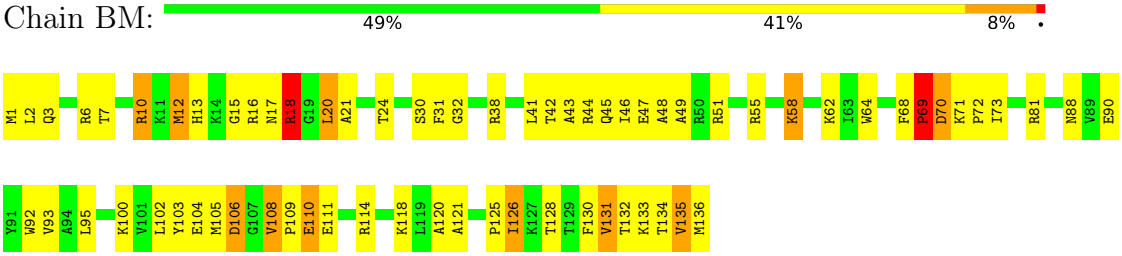
• Molecule 33: 50S ribosomal protein L15



• Molecule 33: 50S ribosomal protein L15

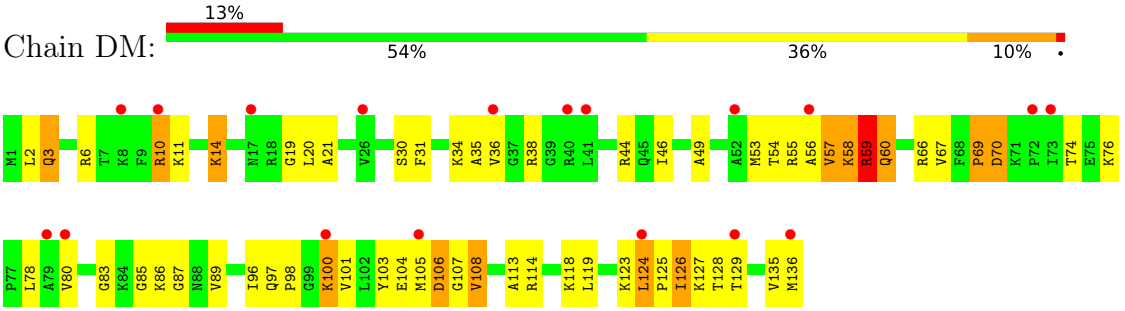


• Molecule 34: 50S ribosomal protein L16



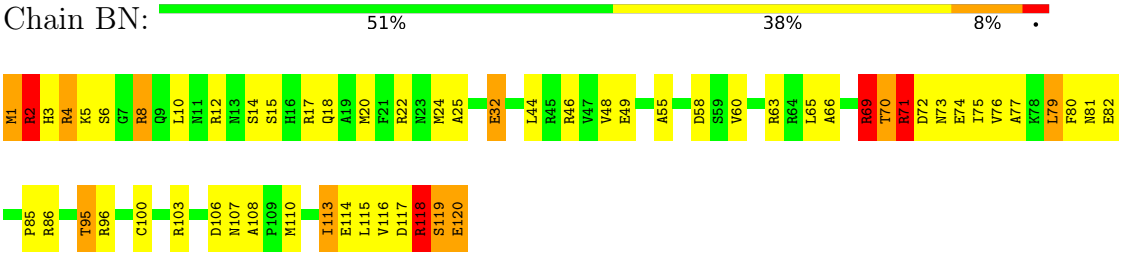
• Molecule 34: 50S ribosomal protein L16

Chain DM:



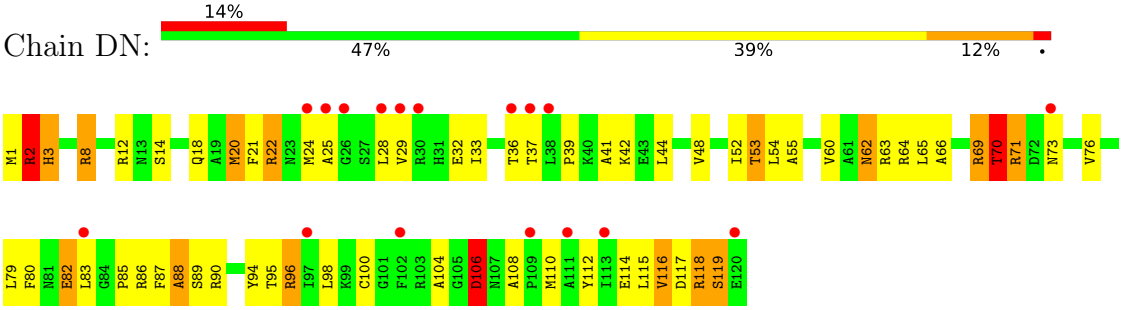
• Molecule 35: 50S ribosomal protein L17

Chain BN:



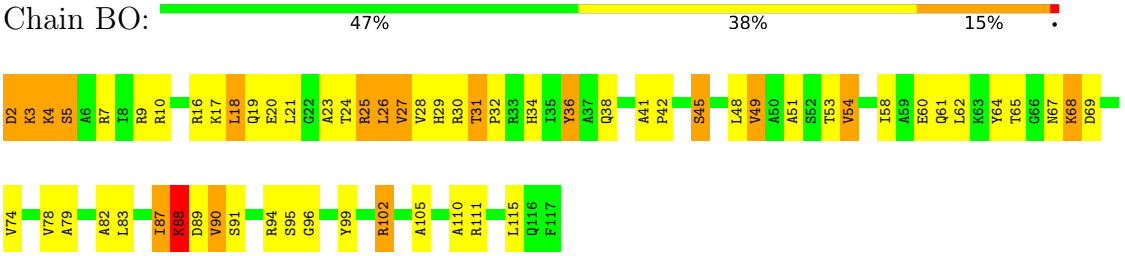
• Molecule 35: 50S ribosomal protein L17

Chain DN:



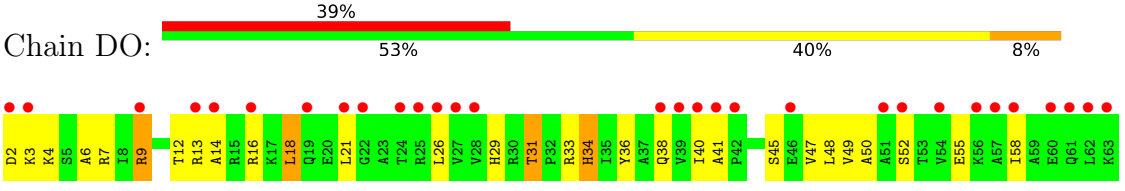
• Molecule 36: 50S ribosomal protein L18

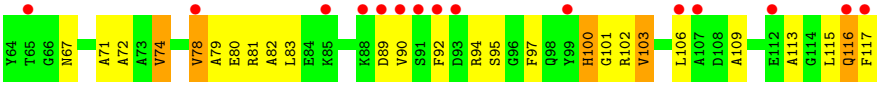
Chain BO:



• Molecule 36: 50S ribosomal protein L18

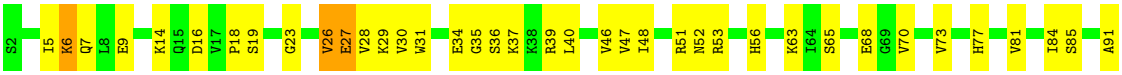
Chain DO:





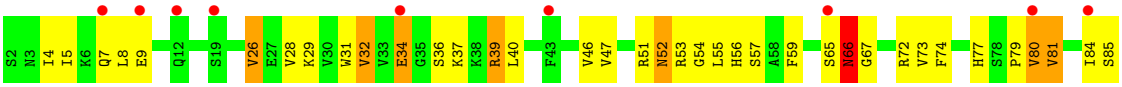
• Molecule 37: 50S ribosomal protein L19

Chain BP:



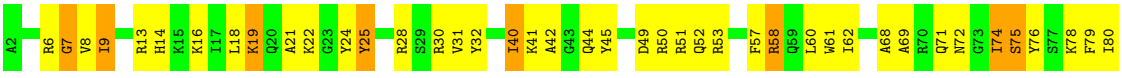
• Molecule 37: 50S ribosomal protein L19

Chain DP:



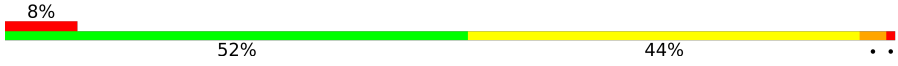
• Molecule 38: 50S ribosomal protein L20

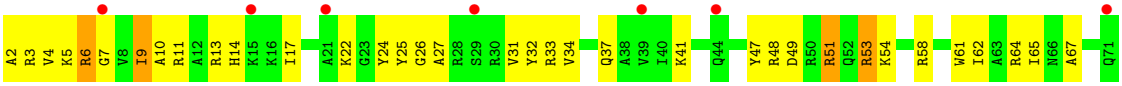
Chain BQ:

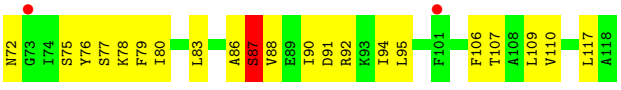


• Molecule 38: 50S ribosomal protein L20

Chain DQ:

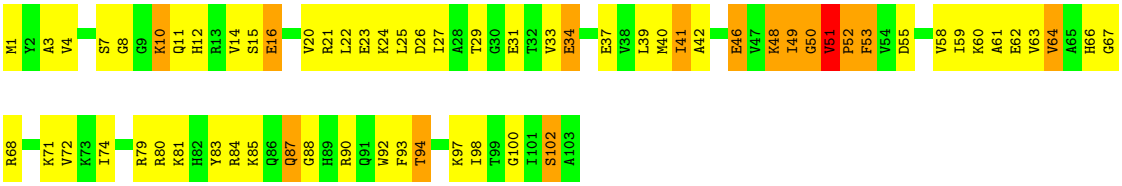




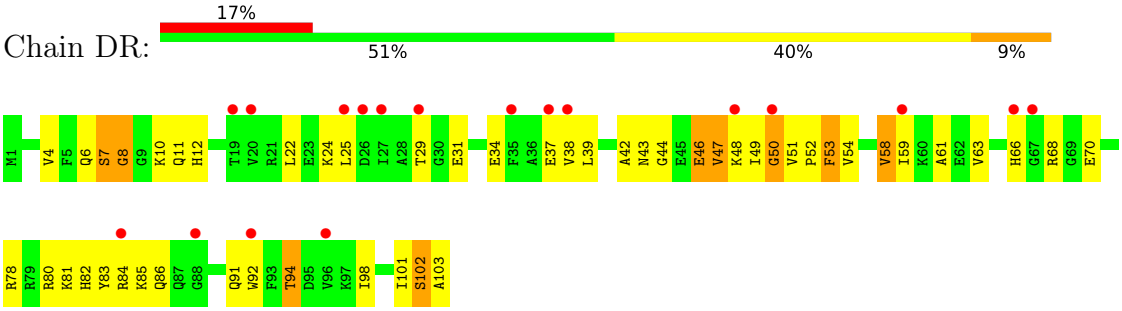


• Molecule 39: 50S ribosomal protein L21

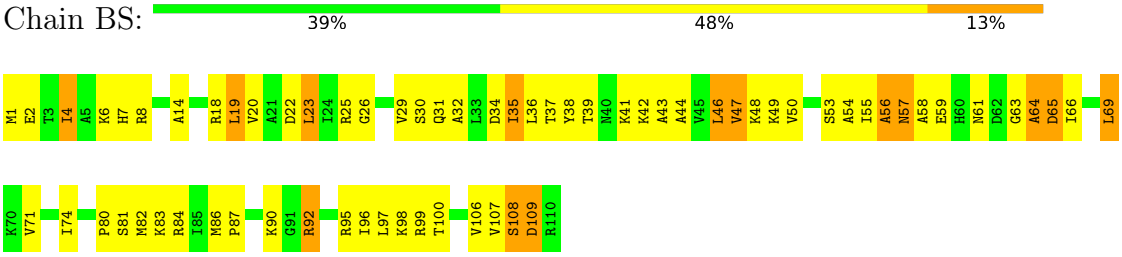
Chain BR:



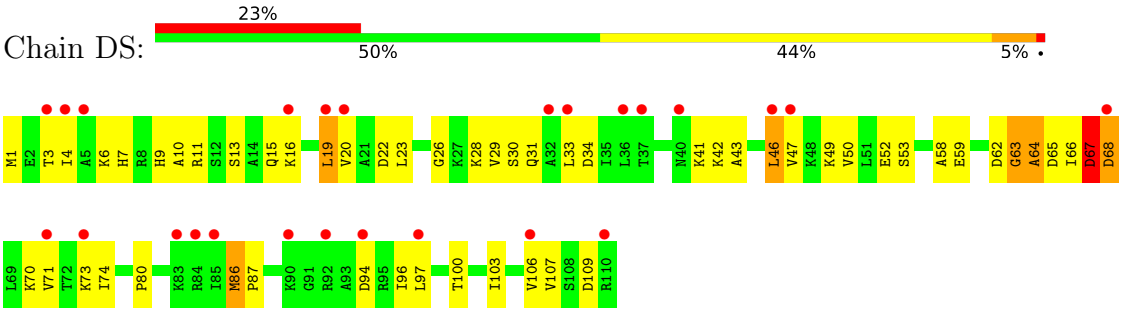
• Molecule 39: 50S ribosomal protein L21



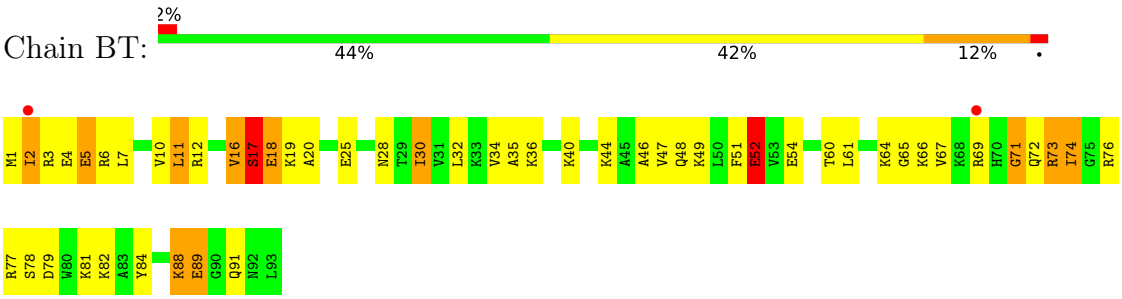
• Molecule 40: 50S ribosomal protein L22



• Molecule 40: 50S ribosomal protein L22

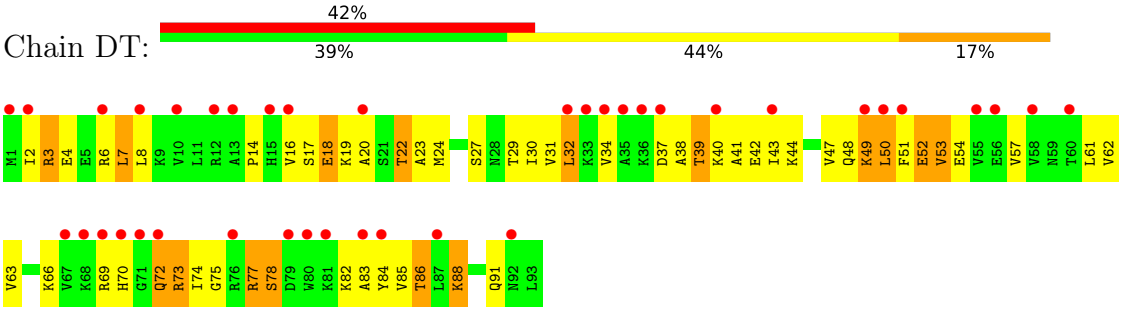


• Molecule 41: 50S ribosomal protein L23



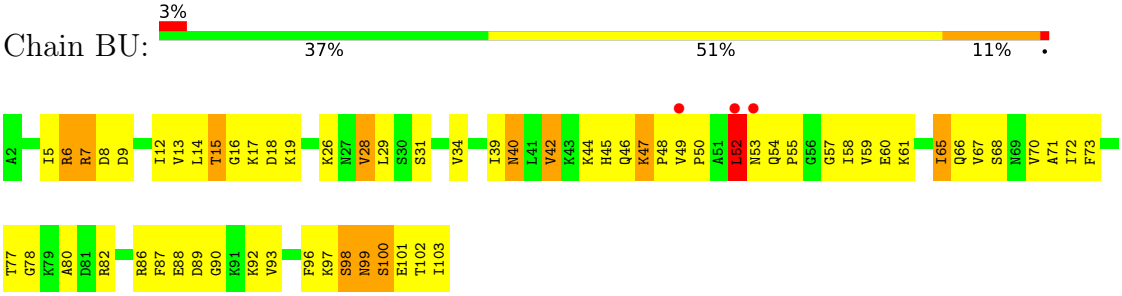
• Molecule 41: 50S ribosomal protein L23

Chain DT:



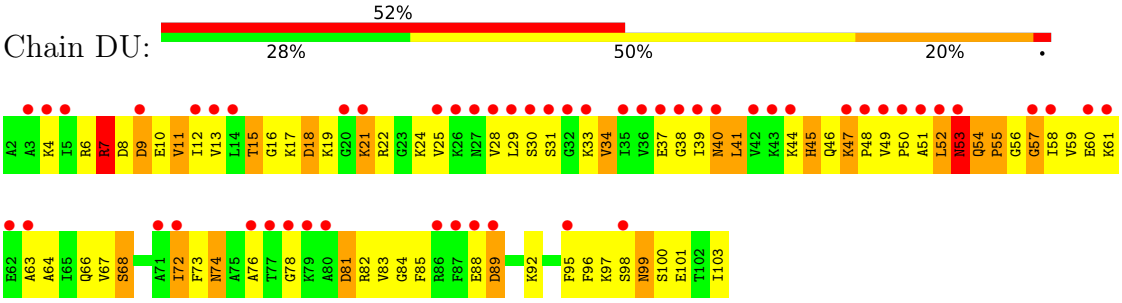
• Molecule 42: 50S ribosomal protein L24

Chain BU:



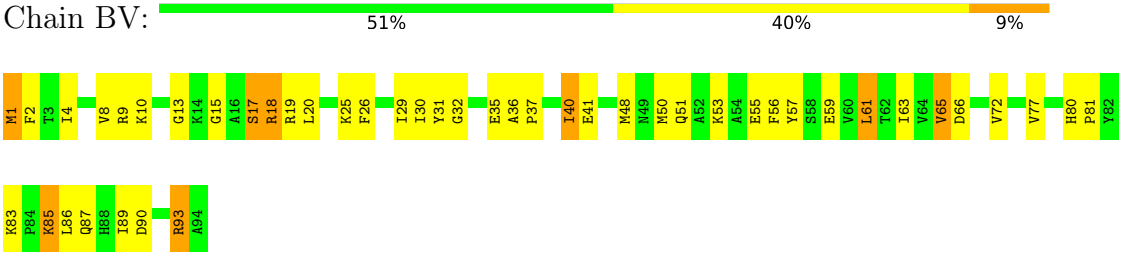
• Molecule 42: 50S ribosomal protein L24

Chain DU:



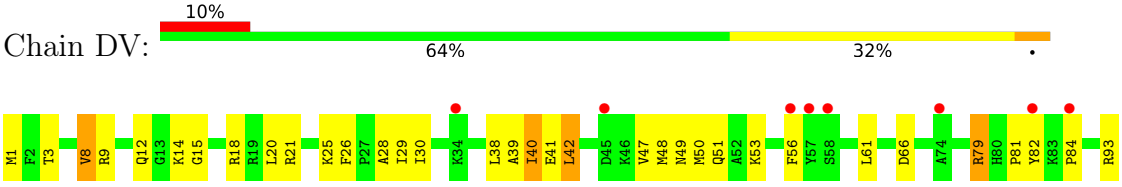
• Molecule 43: 50S ribosomal protein L25

Chain BV:



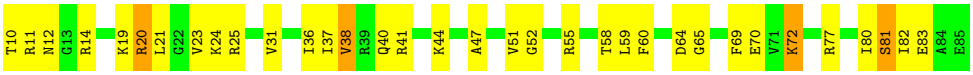
• Molecule 43: 50S ribosomal protein L25

Chain DV:



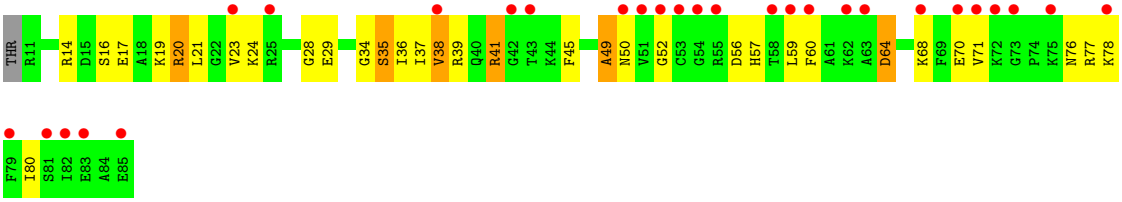
• Molecule 44: 50S ribosomal protein L27

Chain BW:



• Molecule 44: 50S ribosomal protein L27

Chain DW:

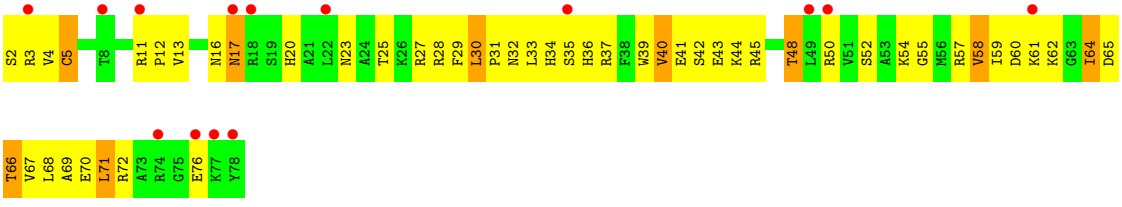


• Molecule 45: 50S ribosomal protein L28

Chain BX:

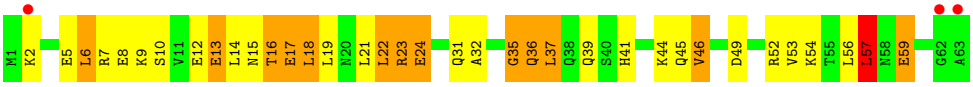
• Molecule 45: 50S ribosomal protein L28

Chain DX:



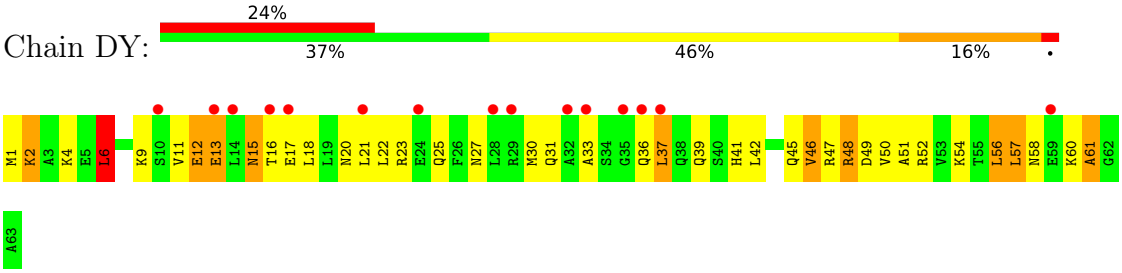
• Molecule 46: 50S ribosomal protein L29

Chain BY:



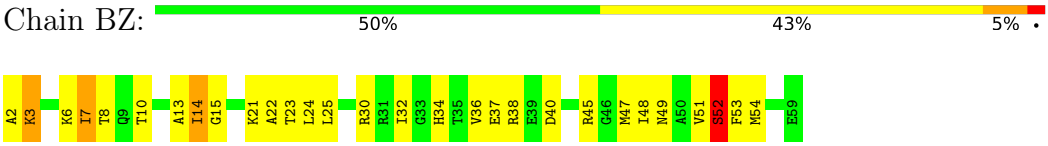
• Molecule 46: 50S ribosomal protein L29

Chain DY:



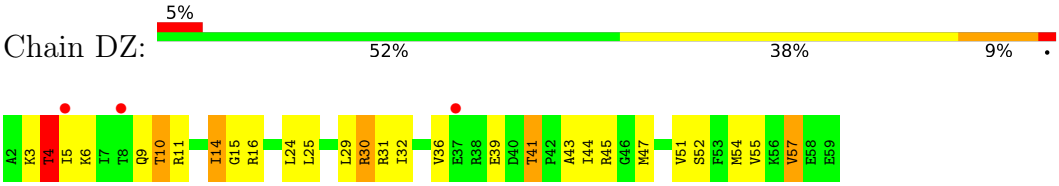
• Molecule 47: 50S ribosomal protein L30

Chain BZ:



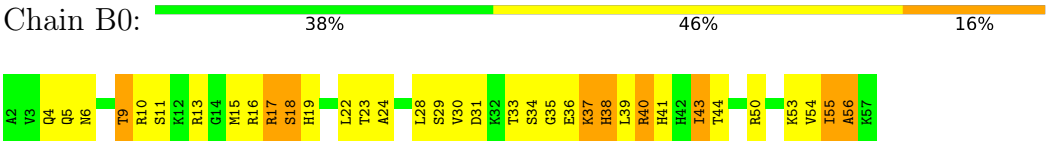
• Molecule 47: 50S ribosomal protein L30

Chain DZ:



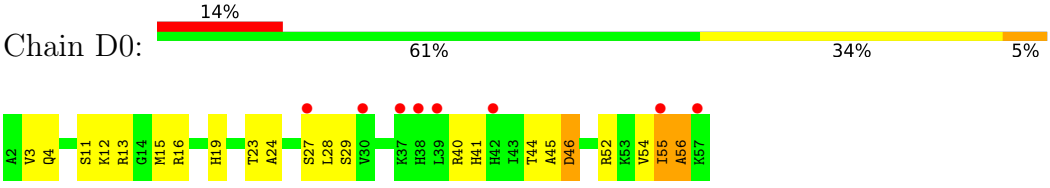
• Molecule 48: 50S ribosomal protein L32

Chain B0:



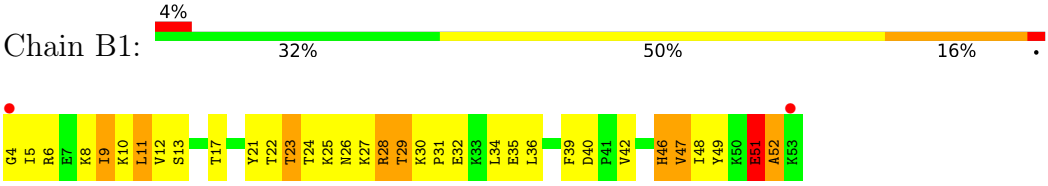
• Molecule 48: 50S ribosomal protein L32

Chain D0:



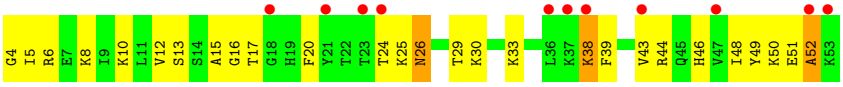
• Molecule 49: 50S ribosomal protein L33

Chain B1:



• Molecule 49: 50S ribosomal protein L33

Chain D1:

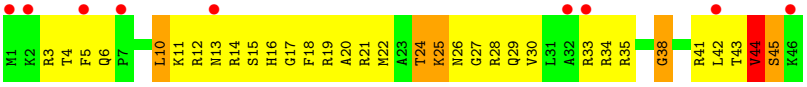


• Molecule 50: 50S ribosomal protein L34

Chain B2:

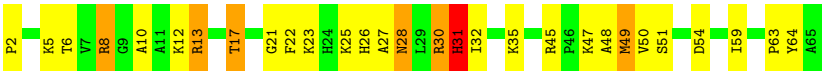
• Molecule 50: 50S ribosomal protein L34

Chain D2:



• Molecule 51: 50S ribosomal protein L35

Chain B3:



• Molecule 51: 50S ribosomal protein L35

Chain D3:

• Molecule 52: 50S ribosomal protein L36

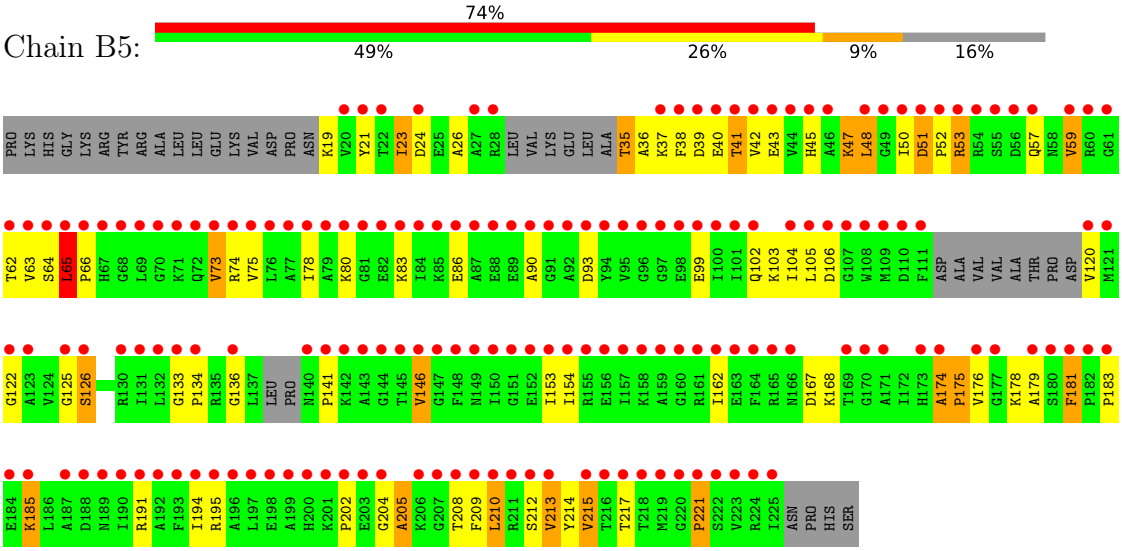
Chain B4:

• Molecule 52: 50S ribosomal protein L36

Chain D4:

• Molecule 53: 50S ribosomal protein L1

Chain B5:



• Molecule 54: Linopristin

Chain B6:

• Molecule 54: Linopristin

Chain D6:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	211.49Å 433.90Å 621.76Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	69.15 – 3.00 69.15 – 3.00	Depositor EDS
% Data completeness (in resolution range)	90.2 (69.15-3.00) 90.2 (69.15-3.00)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.46 (at 3.01Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.1_1168)	Depositor
R, R_{free}	0.225 , 0.274 0.228 , 0.277	Depositor DCC
R_{free} test set	4092 reflections (0.40%)	wwPDB-VP
Wilson B-factor (Å^2)	57.2	Xtriage
Anisotropy	0.316	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.25 , 49.7	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	0.92	EDS
Total number of atoms	288320	wwPDB-VP
Average B, all atoms (Å^2)	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.64% 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: MHW, MHU, DBB, ZN, MG, 004, 04X

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	0.52	0/36944	1.02	48/57632 (0.1%)
1	CA	0.45	0/36966	0.96	27/57666 (0.0%)
2	AB	0.44	0/1736	0.65	0/2338
2	CB	0.38	0/1736	0.59	0/2338
3	AC	0.39	0/1652	0.61	0/2225
3	CC	0.37	0/1652	0.58	1/2225 (0.0%)
4	AD	0.39	0/1665	0.64	0/2227
4	CD	0.43	0/1665	0.65	0/2227
5	AE	0.41	0/1119	0.75	0/1504
5	CE	0.41	0/1119	0.73	0/1504
6	AF	0.41	0/836	0.77	2/1128 (0.2%)
6	CF	0.35	0/836	0.64	1/1128 (0.1%)
7	AG	0.37	0/1196	0.60	0/1602
7	CG	0.38	0/1196	0.54	0/1602
8	AH	0.40	0/989	0.63	0/1326
8	CH	0.34	0/989	0.57	0/1326
9	AI	0.39	0/1034	0.65	0/1375
9	CI	0.36	0/1034	0.59	0/1375
10	AJ	0.37	0/797	0.62	0/1077
10	CJ	0.36	0/797	0.61	0/1077
11	AK	0.38	0/893	0.63	0/1205
11	CK	0.37	0/893	0.61	0/1205
12	AL	0.41	0/969	0.71	0/1300
12	CL	0.41	0/969	0.73	0/1300
13	AM	0.38	0/893	0.70	1/1193 (0.1%)
13	CM	0.39	0/893	0.62	0/1193
14	AN	0.38	0/785	0.61	0/1043
14	CN	0.34	0/785	0.52	0/1043
15	AO	0.34	0/718	0.59	0/959
15	CO	0.32	0/718	0.57	0/959
16	AP	0.40	0/659	0.70	1/884 (0.1%)
16	CP	0.36	0/659	0.60	0/884

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AQ	0.37	0/658	0.66	0/881
17	CQ	0.39	0/658	0.61	0/881
18	AR	0.37	0/463	0.61	0/621
18	CR	0.37	0/463	0.58	0/621
19	AS	0.43	0/653	0.66	0/877
19	CS	0.38	0/653	0.58	0/877
20	AT	0.43	0/671	0.63	0/888
20	CT	0.35	0/671	0.56	0/888
21	AU	0.50	0/431	0.71	0/570
21	CU	0.44	0/431	0.66	0/570
22	BA	0.90	44/69659 (0.1%)	1.39	725/108672 (0.7%)
22	DA	0.45	0/69659	0.95	28/108672 (0.0%)
23	BB	0.78	2/2850 (0.1%)	1.29	20/4444 (0.5%)
23	DB	0.39	0/2828	0.89	0/4410
24	BC	0.56	1/2122 (0.0%)	0.75	1/2852 (0.0%)
24	DC	0.37	0/2122	0.61	0/2852
25	BD	0.62	0/1586	0.80	1/2134 (0.0%)
25	DD	0.34	0/1586	0.55	0/2134
26	BE	0.54	0/1571	0.70	0/2113
26	DE	0.38	0/1571	0.60	0/2113
27	BF	0.41	0/1435	0.62	0/1926
27	DF	0.37	0/1435	0.53	0/1926
28	BG	0.45	0/1343	0.67	0/1816
28	DG	0.34	0/1343	0.52	0/1816
29	BH	0.36	0/1121	0.66	1/1515 (0.1%)
29	DH	0.35	0/1121	0.56	0/1515
30	BI	0.44	0/1046	0.62	0/1410
30	DI	0.43	0/1046	0.59	0/1410
31	BJ	0.61	0/1152	0.75	1/1551 (0.1%)
31	DJ	0.35	0/1152	0.57	0/1551
32	BK	0.64	0/948	0.81	0/1268
32	DK	0.37	0/948	0.57	0/1268
33	BL	0.52	0/1054	0.75	0/1403
33	DL	0.38	0/1054	0.62	0/1403
34	BM	0.62	0/1093	0.80	1/1460 (0.1%)
34	DM	0.33	0/1093	0.56	0/1460
35	BN	0.61	0/974	0.88	3/1301 (0.2%)
35	DN	0.36	0/974	0.56	0/1301
36	BO	0.48	0/902	0.71	0/1209
36	DO	0.34	0/902	0.53	0/1209
37	BP	0.54	0/929	0.75	1/1242 (0.1%)
37	DP	0.37	0/929	0.58	0/1242
38	BQ	0.73	0/960	0.82	1/1278 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	DQ	0.36	0/960	0.54	0/1278
39	BR	0.66	0/829	0.91	2/1107 (0.2%)
39	DR	0.36	0/829	0.59	0/1107
40	BS	0.72	0/864	0.81	0/1156
40	DS	0.36	0/864	0.63	0/1156
41	BT	0.49	0/745	0.68	0/994
41	DT	0.38	0/745	0.60	0/994
42	BU	0.48	0/788	0.72	0/1051
42	DU	0.43	0/788	0.61	0/1051
43	BV	0.52	0/766	0.70	0/1025
43	DV	0.32	0/766	0.48	0/1025
44	BW	0.64	0/587	0.79	0/776
44	DW	0.33	0/576	0.54	0/762
45	BX	0.45	0/635	0.73	0/848
45	DX	0.36	0/635	0.60	0/848
46	BY	0.46	0/510	0.71	0/677
46	DY	0.39	0/510	0.61	0/677
47	BZ	0.61	0/453	0.82	1/605 (0.2%)
47	DZ	0.32	0/453	0.58	0/605
48	B0	0.64	0/450	0.91	2/599 (0.3%)
48	D0	0.35	0/450	0.58	0/599
49	B1	0.46	0/417	0.67	0/554
49	D1	0.35	0/417	0.51	0/554
50	B2	0.55	0/380	0.83	0/498
50	D2	0.38	0/380	0.61	0/498
51	B3	0.58	0/513	0.75	0/676
51	D3	0.33	0/513	0.57	0/676
52	B4	0.60	0/303	0.71	0/397
52	D4	0.32	0/303	0.54	0/397
53	B5	0.39	0/1145	0.56	0/1556
54	B6	3.67	4/13 (30.8%)	4.12	3/15 (20.0%)
54	D6	3.86	3/13 (23.1%)	3.82	4/15 (26.7%)
All	All	0.59	54/310652 (0.0%)	1.02	876/464396 (0.2%)

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
5	CE	0	1
6	CF	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
11	AK	0	1
12	CL	0	2
21	AU	0	1
25	BD	0	1
25	DD	0	1
33	BL	0	1
48	B0	0	1
All	All	0	10

The worst 5 of 54 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	BA	1142	A	N9-C4	-12.83	1.30	1.37
22	BA	528	A	N9-C4	-10.27	1.31	1.37
22	BA	528	A	N3-C4	-8.70	1.29	1.34
22	BA	974	G	N9-C4	-8.12	1.31	1.38
22	BA	979	A	N9-C4	-7.80	1.33	1.37

The worst 5 of 876 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	BA	974	G	C4-C5-N7	15.39	116.95	110.80
22	BA	974	G	C5-N7-C8	-15.02	96.79	104.30
22	BA	752	A	N1-C6-N6	14.90	127.54	118.60
22	BA	974	G	N1-C6-O6	14.51	128.61	119.90
22	BA	1779	U	N3-C4-O4	-13.09	110.24	119.40

There are no chirality outliers.

5 of 10 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
11	AK	126	LYS	Peptide
21	AU	39	GLU	Peptide
48	B0	24	ALA	Peptide
25	BD	151	THR	Peptide
33	BL	28	GLY	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	32995	0	16607	1338	4
1	CA	33015	0	16617	1198	0
2	AB	1705	0	1732	164	0
2	CB	1705	0	1732	121	0
3	AC	1625	0	1696	89	0
3	CC	1625	0	1696	80	0
4	AD	1643	0	1707	133	0
4	CD	1643	0	1707	144	0
5	AE	1106	0	1148	83	0
5	CE	1106	0	1148	104	0
6	AF	818	0	808	62	0
6	CF	818	0	808	56	0
7	AG	1182	0	1238	65	0
7	CG	1182	0	1238	59	0
8	AH	979	0	1031	67	0
8	CH	979	0	1031	47	0
9	AI	1022	0	1070	77	0
9	CI	1022	0	1070	69	0
10	AJ	787	0	828	87	0
10	CJ	787	0	828	48	0
11	AK	877	0	887	79	0
11	CK	877	0	887	72	0
12	AL	955	0	1016	65	0
12	CL	955	0	1016	61	0
13	AM	884	0	941	80	0
13	CM	884	0	941	46	0
14	AN	774	0	824	66	0
14	CN	774	0	824	44	0
15	AO	710	0	728	35	0
15	CO	710	0	728	42	0
16	AP	649	0	666	53	0
16	CP	649	0	666	30	0
17	AQ	649	0	691	69	0
17	CQ	649	0	691	50	0
18	AR	456	0	478	22	0
18	CR	456	0	478	23	0
19	AS	638	0	665	48	0
19	CS	638	0	665	38	0
20	AT	665	0	714	54	0
20	CT	665	0	714	38	0
21	AU	426	0	449	61	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
21	CU	426	0	449	37	0
22	BA	62195	0	31280	2134	0
22	DA	62195	0	31280	2174	0
23	BB	2549	0	1291	56	0
23	DB	2529	0	1281	72	0
24	BC	2083	0	2154	157	0
24	DC	2083	0	2154	123	0
25	BD	1565	0	1616	92	0
25	DD	1565	0	1616	81	0
26	BE	1552	0	1619	75	0
26	DE	1552	0	1619	103	0
27	BF	1411	0	1444	105	0
27	DF	1411	0	1444	63	0
28	BG	1323	0	1371	61	0
28	DG	1323	0	1371	56	0
29	BH	1110	0	1147	154	0
29	DH	1110	0	1148	90	4
30	BI	1032	0	1085	82	0
30	DI	1032	0	1085	72	0
31	BJ	1129	0	1162	64	0
31	DJ	1129	0	1162	55	0
32	BK	939	0	1012	75	0
32	DK	939	0	1012	38	0
33	BL	1045	0	1117	51	0
33	DL	1045	0	1117	81	0
34	BM	1074	0	1157	47	0
34	DM	1074	0	1157	43	0
35	BN	961	0	1000	51	0
35	DN	961	0	1000	55	0
36	BO	892	0	923	57	0
36	DO	892	0	923	50	0
37	BP	917	0	962	48	0
37	DP	917	0	962	47	0
38	BQ	947	0	1019	61	0
38	DQ	947	0	1019	55	0
39	BR	816	0	839	84	0
39	DR	816	0	839	47	0
40	BS	857	0	922	64	0
40	DS	857	0	922	39	0
41	BT	739	0	807	46	0
41	DT	739	0	807	44	0
42	BU	780	0	831	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	DU	780	0	831	65	0
43	BV	753	0	780	31	0
43	DV	753	0	780	25	0
44	BW	580	0	594	23	0
44	DW	569	0	581	26	0
45	BX	625	0	652	35	0
45	DX	625	0	652	55	0
46	BY	509	0	543	29	0
46	DY	509	0	543	38	0
47	BZ	449	0	488	19	0
47	DZ	449	0	488	14	0
48	B0	444	0	458	33	0
48	D0	444	0	458	18	0
49	B1	410	0	440	32	0
49	D1	410	0	440	19	0
50	B2	377	0	418	19	0
50	D2	377	0	418	34	0
51	B3	504	0	572	22	0
51	D3	504	0	572	29	0
52	B4	302	0	340	12	0
52	D4	302	0	342	17	0
53	B5	1142	0	865	49	0
54	B6	69	0	60	5	0
54	D6	69	0	60	14	0
55	AA	71	0	0	0	0
55	AM	1	0	0	0	0
55	BA	195	0	0	0	0
55	BB	4	0	0	0	0
55	CA	55	0	0	0	0
55	CM	1	0	0	0	0
55	DA	167	0	0	0	0
55	DB	3	0	0	0	0
55	DQ	1	0	0	0	0
56	B4	1	0	0	0	0
56	D4	1	0	0	0	0
57	AA	194	0	0	23	0
57	AL	1	0	0	0	0
57	AN	5	0	0	1	0
57	AT	2	0	0	1	0
57	AU	1	0	0	1	0
57	B2	1	0	0	0	0
57	B3	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	B4	2	0	0	0	0
57	BA	615	0	0	101	0
57	BB	14	0	0	0	0
57	BC	10	0	0	0	0
57	BD	4	0	0	2	0
57	BE	4	0	0	0	0
57	BF	1	0	0	1	0
57	BG	1	0	0	0	0
57	BJ	1	0	0	0	0
57	BL	6	0	0	0	0
57	BN	2	0	0	0	0
57	BS	1	0	0	0	0
57	BU	1	0	0	0	0
57	CA	189	0	0	20	0
57	CL	1	0	0	0	0
57	CN	3	0	0	2	0
57	CT	3	0	0	0	0
57	CU	2	0	0	0	0
57	D0	1	0	0	0	0
57	D2	2	0	0	0	0
57	D3	2	0	0	0	0
57	D4	1	0	0	0	0
57	DA	607	0	0	82	0
57	DB	13	0	0	3	0
57	DC	9	0	0	1	0
57	DD	4	0	0	2	0
57	DE	6	0	0	1	0
57	DL	5	0	0	1	0
57	DN	2	0	0	0	0
57	DT	2	0	0	0	0
57	DU	1	0	0	1	0
57	DV	1	0	0	0	0
All	All	288320	0	192909	11780	4

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 25.

The worst 5 of 11780 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)
22:BA:1006:C:OP2	57:BA:3781:HOH:O	1.56	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BH:117:LEU:O	29:BH:121:VAL:HG23	1.34	1.22
22:BA:2714:G:OP2	57:BA:3548:HOH:O	1.61	1.18
22:BA:1603:A:OP1	57:BA:3411:HOH:O	1.61	1.15
54:D6:4:PRO:HB2	54:D6:5:MHU:HM1	1.15	1.14

All (4) 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)
1:AA:368:U:OP2	29:DH:123:ARG:NE[4_455]	1.78	0.42
1:AA:368:U:OP1	29:DH:93:SER:OG[4_455]	1.93	0.27
1:AA:368:U:OP2	29:DH:123:ARG:NH2[4_455]	2.03	0.17
1:AA:368:U:OP2	29:DH:123:ARG:CZ[4_455]	2.07	0.13

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	216/218 (99%)	135 (62%)	36 (17%)	45 (21%)	0	0
2	CB	216/218 (99%)	143 (66%)	36 (17%)	37 (17%)	0	0
3	AC	204/206 (99%)	142 (70%)	42 (21%)	20 (10%)	0	2
3	CC	204/206 (99%)	145 (71%)	41 (20%)	18 (9%)	1	3
4	AD	203/205 (99%)	133 (66%)	36 (18%)	34 (17%)	0	0
4	CD	203/205 (99%)	129 (64%)	48 (24%)	26 (13%)	0	1
5	AE	148/150 (99%)	98 (66%)	33 (22%)	17 (12%)	0	2
5	CE	148/150 (99%)	96 (65%)	29 (20%)	23 (16%)	0	1
6	AF	98/100 (98%)	61 (62%)	19 (19%)	18 (18%)	0	0
6	CF	98/100 (98%)	64 (65%)	18 (18%)	16 (16%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
7	AG	149/151 (99%)	110 (74%)	27 (18%)	12 (8%)	1 4
7	CG	149/151 (99%)	120 (80%)	21 (14%)	8 (5%)	2 11
8	AH	127/129 (98%)	80 (63%)	29 (23%)	18 (14%)	0 1
8	CH	127/129 (98%)	100 (79%)	19 (15%)	8 (6%)	1 7
9	AI	125/127 (98%)	90 (72%)	24 (19%)	11 (9%)	1 3
9	CI	125/127 (98%)	89 (71%)	27 (22%)	9 (7%)	1 5
10	AJ	96/98 (98%)	68 (71%)	7 (7%)	21 (22%)	0 0
10	CJ	96/98 (98%)	69 (72%)	18 (19%)	9 (9%)	0 3
11	AK	115/117 (98%)	83 (72%)	17 (15%)	15 (13%)	0 1
11	CK	115/117 (98%)	77 (67%)	28 (24%)	10 (9%)	1 3
12	AL	121/123 (98%)	92 (76%)	19 (16%)	10 (8%)	1 4
12	CL	121/123 (98%)	89 (74%)	17 (14%)	15 (12%)	0 1
13	AM	112/114 (98%)	79 (70%)	22 (20%)	11 (10%)	0 2
13	CM	112/114 (98%)	86 (77%)	15 (13%)	11 (10%)	0 2
14	AN	92/100 (92%)	57 (62%)	20 (22%)	15 (16%)	0 1
14	CN	92/100 (92%)	59 (64%)	20 (22%)	13 (14%)	0 1
15	AO	86/88 (98%)	60 (70%)	21 (24%)	5 (6%)	1 10
15	CO	86/88 (98%)	65 (76%)	18 (21%)	3 (4%)	3 20
16	AP	80/82 (98%)	52 (65%)	16 (20%)	12 (15%)	0 1
16	CP	80/82 (98%)	54 (68%)	20 (25%)	6 (8%)	1 5
17	AQ	78/80 (98%)	52 (67%)	16 (20%)	10 (13%)	0 1
17	CQ	78/80 (98%)	55 (70%)	13 (17%)	10 (13%)	0 1
18	AR	53/55 (96%)	40 (76%)	12 (23%)	1 (2%)	8 36
18	CR	53/55 (96%)	45 (85%)	4 (8%)	4 (8%)	1 5
19	AS	77/79 (98%)	52 (68%)	19 (25%)	6 (8%)	1 4
19	CS	77/79 (98%)	59 (77%)	14 (18%)	4 (5%)	2 12
20	AT	83/85 (98%)	51 (61%)	23 (28%)	9 (11%)	0 2
20	CT	83/85 (98%)	66 (80%)	11 (13%)	6 (7%)	1 5
21	AU	49/51 (96%)	23 (47%)	18 (37%)	8 (16%)	0 1
21	CU	49/51 (96%)	25 (51%)	10 (20%)	14 (29%)	0 0
24	BC	269/271 (99%)	208 (77%)	49 (18%)	12 (4%)	2 14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
24	DC	269/271 (99%)	206 (77%)	42 (16%)	21 (8%)	1 4
25	BD	207/209 (99%)	176 (85%)	22 (11%)	9 (4%)	2 15
25	DD	207/209 (99%)	175 (84%)	24 (12%)	8 (4%)	3 17
26	BE	199/201 (99%)	164 (82%)	26 (13%)	9 (4%)	2 14
26	DE	199/201 (99%)	160 (80%)	27 (14%)	12 (6%)	1 9
27	BF	175/177 (99%)	136 (78%)	24 (14%)	15 (9%)	1 3
27	DF	175/177 (99%)	141 (81%)	23 (13%)	11 (6%)	1 7
28	BG	174/176 (99%)	146 (84%)	20 (12%)	8 (5%)	2 14
28	DG	174/176 (99%)	132 (76%)	33 (19%)	9 (5%)	2 12
29	BH	147/149 (99%)	89 (60%)	37 (25%)	21 (14%)	0 1
29	DH	147/149 (99%)	100 (68%)	32 (22%)	15 (10%)	0 2
30	BI	139/141 (99%)	79 (57%)	34 (24%)	26 (19%)	0 0
30	DI	139/141 (99%)	79 (57%)	42 (30%)	18 (13%)	0 1
31	BJ	140/142 (99%)	120 (86%)	17 (12%)	3 (2%)	7 33
31	DJ	140/142 (99%)	116 (83%)	18 (13%)	6 (4%)	2 15
32	BK	120/122 (98%)	94 (78%)	15 (12%)	11 (9%)	1 3
32	DK	120/122 (98%)	96 (80%)	14 (12%)	10 (8%)	1 4
33	BL	141/143 (99%)	108 (77%)	23 (16%)	10 (7%)	1 5
33	DL	141/143 (99%)	104 (74%)	28 (20%)	9 (6%)	1 7
34	BM	134/136 (98%)	114 (85%)	16 (12%)	4 (3%)	4 24
34	DM	134/136 (98%)	115 (86%)	13 (10%)	6 (4%)	2 14
35	BN	118/120 (98%)	97 (82%)	18 (15%)	3 (2%)	5 28
35	DN	118/120 (98%)	94 (80%)	16 (14%)	8 (7%)	1 6
36	BO	114/116 (98%)	87 (76%)	22 (19%)	5 (4%)	2 15
36	DO	114/116 (98%)	97 (85%)	15 (13%)	2 (2%)	8 37
37	BP	112/114 (98%)	97 (87%)	10 (9%)	5 (4%)	2 14
37	DP	112/114 (98%)	86 (77%)	19 (17%)	7 (6%)	1 7
38	BQ	115/117 (98%)	96 (84%)	15 (13%)	4 (4%)	3 20
38	DQ	115/117 (98%)	105 (91%)	9 (8%)	1 (1%)	17 55
39	BR	101/103 (98%)	89 (88%)	5 (5%)	7 (7%)	1 6
39	DR	101/103 (98%)	77 (76%)	17 (17%)	7 (7%)	1 6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
40	BS	108/110 (98%)	91 (84%)	11 (10%)	6 (6%)	2 10
40	DS	108/110 (98%)	87 (81%)	14 (13%)	7 (6%)	1 7
41	BT	91/93 (98%)	69 (76%)	13 (14%)	9 (10%)	0 2
41	DT	91/93 (98%)	62 (68%)	19 (21%)	10 (11%)	0 2
42	BU	100/102 (98%)	75 (75%)	17 (17%)	8 (8%)	1 4
42	DU	100/102 (98%)	72 (72%)	15 (15%)	13 (13%)	0 1
43	BV	92/94 (98%)	83 (90%)	9 (10%)	0	100 100
43	DV	92/94 (98%)	76 (83%)	12 (13%)	4 (4%)	2 15
44	BW	74/76 (97%)	65 (88%)	9 (12%)	0	100 100
44	DW	73/76 (96%)	58 (80%)	10 (14%)	5 (7%)	1 6
45	BX	75/77 (97%)	64 (85%)	7 (9%)	4 (5%)	2 11
45	DX	75/77 (97%)	56 (75%)	15 (20%)	4 (5%)	2 11
46	BY	61/63 (97%)	38 (62%)	13 (21%)	10 (16%)	0 1
46	DY	61/63 (97%)	44 (72%)	11 (18%)	6 (10%)	0 2
47	BZ	56/58 (97%)	49 (88%)	4 (7%)	3 (5%)	2 11
47	DZ	56/58 (97%)	48 (86%)	5 (9%)	3 (5%)	2 11
48	B0	54/56 (96%)	42 (78%)	7 (13%)	5 (9%)	0 3
48	D0	54/56 (96%)	42 (78%)	8 (15%)	4 (7%)	1 5
49	B1	48/50 (96%)	39 (81%)	4 (8%)	5 (10%)	0 2
49	D1	48/50 (96%)	39 (81%)	6 (12%)	3 (6%)	1 7
50	B2	44/46 (96%)	36 (82%)	6 (14%)	2 (4%)	2 14
50	D2	44/46 (96%)	37 (84%)	4 (9%)	3 (7%)	1 6
51	B3	62/64 (97%)	51 (82%)	9 (14%)	2 (3%)	4 22
51	D3	62/64 (97%)	50 (81%)	9 (14%)	3 (5%)	2 13
52	B4	36/38 (95%)	33 (92%)	3 (8%)	0	100 100
52	D4	36/38 (95%)	29 (81%)	6 (17%)	1 (3%)	5 25
53	B5	183/228 (80%)	100 (55%)	53 (29%)	30 (16%)	0 1
54	B6	2/7 (29%)	2 (100%)	0	0	100 100
54	D6	2/7 (29%)	1 (50%)	0	1 (50%)	0 0
All	All	11422/11686 (98%)	8514 (74%)	1907 (17%)	1001 (9%)	1 3

5 of 1001 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	22	TYR
2	AB	64	LYS
2	AB	68	LEU
2	AB	73	LYS
2	AB	75	ALA

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	180/180 (100%)	125 (69%)	55 (31%)	0	1
2	CB	180/180 (100%)	126 (70%)	54 (30%)	0	1
3	AC	170/170 (100%)	137 (81%)	33 (19%)	1	7
3	CC	170/170 (100%)	130 (76%)	40 (24%)	1	3
4	AD	172/172 (100%)	128 (74%)	44 (26%)	0	3
4	CD	172/172 (100%)	140 (81%)	32 (19%)	1	8
5	AE	113/113 (100%)	85 (75%)	28 (25%)	0	3
5	CE	113/113 (100%)	83 (74%)	30 (26%)	0	2
6	AF	87/87 (100%)	63 (72%)	24 (28%)	0	2
6	CF	87/87 (100%)	58 (67%)	29 (33%)	0	1
7	AG	124/124 (100%)	88 (71%)	36 (29%)	0	2
7	CG	124/124 (100%)	92 (74%)	32 (26%)	0	2
8	AH	104/104 (100%)	80 (77%)	24 (23%)	1	4
8	CH	104/104 (100%)	79 (76%)	25 (24%)	0	3
9	AI	105/105 (100%)	73 (70%)	32 (30%)	0	1
9	CI	105/105 (100%)	73 (70%)	32 (30%)	0	1
10	AJ	86/86 (100%)	61 (71%)	25 (29%)	0	2
10	CJ	86/86 (100%)	70 (81%)	16 (19%)	1	8
11	AK	90/90 (100%)	70 (78%)	20 (22%)	1	4
11	CK	90/90 (100%)	67 (74%)	23 (26%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
12	AL	103/103 (100%)	78 (76%)	25 (24%)	0 3
12	CL	103/103 (100%)	78 (76%)	25 (24%)	0 3
13	AM	92/92 (100%)	65 (71%)	27 (29%)	0 2
13	CM	92/92 (100%)	69 (75%)	23 (25%)	0 3
14	AN	79/83 (95%)	63 (80%)	16 (20%)	1 6
14	CN	79/83 (95%)	69 (87%)	10 (13%)	4 19
15	AO	75/76 (99%)	61 (81%)	14 (19%)	1 8
15	CO	75/76 (99%)	64 (85%)	11 (15%)	3 15
16	AP	65/65 (100%)	50 (77%)	15 (23%)	1 4
16	CP	65/65 (100%)	52 (80%)	13 (20%)	1 7
17	AQ	74/74 (100%)	50 (68%)	24 (32%)	0 1
17	CQ	74/74 (100%)	54 (73%)	20 (27%)	0 2
18	AR	48/48 (100%)	40 (83%)	8 (17%)	2 11
18	CR	48/48 (100%)	43 (90%)	5 (10%)	7 27
19	AS	70/70 (100%)	59 (84%)	11 (16%)	2 13
19	CS	70/70 (100%)	53 (76%)	17 (24%)	0 3
20	AT	65/65 (100%)	49 (75%)	16 (25%)	0 3
20	CT	65/65 (100%)	49 (75%)	16 (25%)	0 3
21	AU	44/44 (100%)	29 (66%)	15 (34%)	0 1
21	CU	44/44 (100%)	29 (66%)	15 (34%)	0 1
24	BC	216/216 (100%)	182 (84%)	34 (16%)	2 13
24	DC	216/216 (100%)	189 (88%)	27 (12%)	4 20
25	BD	164/164 (100%)	145 (88%)	19 (12%)	5 23
25	DD	164/164 (100%)	145 (88%)	19 (12%)	5 23
26	BE	165/165 (100%)	137 (83%)	28 (17%)	2 10
26	DE	165/165 (100%)	131 (79%)	34 (21%)	1 6
27	BF	148/148 (100%)	121 (82%)	27 (18%)	1 9
27	DF	148/148 (100%)	116 (78%)	32 (22%)	1 5
28	BG	137/137 (100%)	118 (86%)	19 (14%)	3 16
28	DG	137/137 (100%)	119 (87%)	18 (13%)	4 18
29	BH	114/114 (100%)	88 (77%)	26 (23%)	1 4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
29	DH	114/114 (100%)	88 (77%)	26 (23%)	1 4
30	BI	109/109 (100%)	80 (73%)	29 (27%)	0 2
30	DI	109/109 (100%)	85 (78%)	24 (22%)	1 4
31	BJ	116/116 (100%)	106 (91%)	10 (9%)	10 37
31	DJ	116/116 (100%)	103 (89%)	13 (11%)	6 24
32	BK	103/103 (100%)	90 (87%)	13 (13%)	4 20
32	DK	103/103 (100%)	93 (90%)	10 (10%)	8 31
33	BL	102/102 (100%)	86 (84%)	16 (16%)	2 13
33	DL	102/102 (100%)	80 (78%)	22 (22%)	1 5
34	BM	109/109 (100%)	92 (84%)	17 (16%)	2 13
34	DM	109/109 (100%)	93 (85%)	16 (15%)	3 15
35	BN	100/100 (100%)	83 (83%)	17 (17%)	2 10
35	DN	100/100 (100%)	77 (77%)	23 (23%)	1 4
36	BO	86/86 (100%)	63 (73%)	23 (27%)	0 2
36	DO	86/86 (100%)	71 (83%)	15 (17%)	2 10
37	BP	99/99 (100%)	84 (85%)	15 (15%)	3 14
37	DP	99/99 (100%)	83 (84%)	16 (16%)	2 12
38	BQ	89/89 (100%)	75 (84%)	14 (16%)	2 13
38	DQ	89/89 (100%)	76 (85%)	13 (15%)	3 15
39	BR	84/84 (100%)	69 (82%)	15 (18%)	2 9
39	DR	84/84 (100%)	73 (87%)	11 (13%)	4 18
40	BS	93/93 (100%)	75 (81%)	18 (19%)	1 7
40	DS	93/93 (100%)	80 (86%)	13 (14%)	3 16
41	BT	80/80 (100%)	68 (85%)	12 (15%)	3 14
41	DT	80/80 (100%)	64 (80%)	16 (20%)	1 7
42	BU	83/83 (100%)	66 (80%)	17 (20%)	1 6
42	DU	83/83 (100%)	60 (72%)	23 (28%)	0 2
43	BV	78/78 (100%)	62 (80%)	16 (20%)	1 6
43	DV	78/78 (100%)	67 (86%)	11 (14%)	3 16
44	BW	57/58 (98%)	50 (88%)	7 (12%)	4 21
44	DW	56/58 (97%)	51 (91%)	5 (9%)	9 35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
45	BX	67/67 (100%)	56 (84%)	11 (16%)	2 11
45	DX	67/67 (100%)	57 (85%)	10 (15%)	3 14
46	BY	55/55 (100%)	47 (86%)	8 (14%)	3 15
46	DY	55/55 (100%)	45 (82%)	10 (18%)	1 9
47	BZ	48/48 (100%)	42 (88%)	6 (12%)	4 20
47	DZ	48/48 (100%)	35 (73%)	13 (27%)	0 2
48	B0	47/47 (100%)	40 (85%)	7 (15%)	3 14
48	D0	47/47 (100%)	43 (92%)	4 (8%)	10 38
49	B1	45/45 (100%)	37 (82%)	8 (18%)	2 9
49	D1	45/45 (100%)	39 (87%)	6 (13%)	4 17
50	B2	38/38 (100%)	33 (87%)	5 (13%)	4 18
50	D2	38/38 (100%)	32 (84%)	6 (16%)	2 12
51	B3	51/51 (100%)	40 (78%)	11 (22%)	1 5
51	D3	51/51 (100%)	47 (92%)	4 (8%)	12 42
52	B4	34/34 (100%)	29 (85%)	5 (15%)	3 15
52	D4	34/34 (100%)	29 (85%)	5 (15%)	3 15
53	B5	61/180 (34%)	47 (77%)	14 (23%)	1 4
54	B6	2/2 (100%)	2 (100%)	0	100 100
54	D6	2/2 (100%)	2 (100%)	0	100 100
All	All	9390/9522 (99%)	7518 (80%)	1872 (20%)	1 7

5 of 1872 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
50	B2	24	THR
41	DT	86	THR
7	CG	5	ARG
40	DS	68	ASP
30	DI	96	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 38 such sidechains are listed below:

Mol	Chain	Res	Type
18	CR	52	GLN

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Mol	Chain	Res	Type
37	DP	41	GLN
20	CT	68	HIS
28	DG	115	HIS
51	D3	31	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1537/1539 (99%)	361 (23%)	17 (1%)
1	CA	1538/1539 (99%)	335 (21%)	16 (1%)
22	BA	2895/2903 (99%)	672 (23%)	36 (1%)
22	DA	2895/2903 (99%)	609 (21%)	33 (1%)
23	BB	118/119 (99%)	27 (22%)	1 (0%)
23	DB	117/119 (98%)	25 (21%)	0
All	All	9100/9122 (99%)	2029 (22%)	103 (1%)

5 of 2029 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	4	U
1	AA	5	U
1	AA	9	G
1	AA	13	U
1	AA	32	A

5 of 103 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	CA	209	U
22	DA	83	A
22	DA	2501	C
1	CA	429	U
1	CA	873	A

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

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

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The

Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
54	MHU	D6	5	54	14,15,16	2.80	6 (42%)	18,19,21	2.69	4 (22%)
54	DBB	B6	3	54	4,5,6	0.86	0	1,5,7	0.96	0
54	04X	D6	6	54	14,16,17	1.14	2 (14%)	11,20,22	5.43	7 (63%)
54	MHW	D6	1	54	9,9,10	3.18	4 (44%)	10,11,13	2.22	7 (70%)
54	DBB	D6	3	54	4,5,6	0.76	0	1,5,7	0.74	0
54	MHU	B6	5	54	14,15,16	2.87	7 (50%)	18,19,21	2.71	5 (27%)
54	004	D6	7	54	9,10,11	3.28	7 (77%)	9,12,14	2.38	2 (22%)
54	MHW	B6	1	54	9,9,10	2.88	4 (44%)	10,11,13	3.44	8 (80%)
54	004	B6	7	54	9,10,11	3.36	6 (66%)	9,12,14	1.59	2 (22%)
54	04X	B6	6	54	14,16,17	1.22	1 (7%)	11,20,22	4.65	6 (54%)

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
54	MHU	D6	5	54	-	3/9/12/14	0/1/1/1
54	DBB	B6	3	54	-	1/3/4/6	-
54	04X	D6	6	54	-	3/4/24/26	0/2/2/2
54	MHW	D6	1	54	-	0/2/2/4	0/1/1/1
54	DBB	D6	3	54	-	2/3/4/6	-
54	MHU	B6	5	54	-	2/9/12/14	0/1/1/1
54	004	D6	7	54	-	2/4/6/8	0/1/1/1
54	MHW	B6	1	54	-	2/2/2/4	0/1/1/1
54	004	B6	7	54	-	3/4/6/8	0/1/1/1
54	04X	B6	6	54	-	2/4/24/26	0/2/2/2

The worst 5 of 37 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	B6	7	004	CB-CA	-6.34	1.45	1.52
54	D6	5	MHU	CE1-CD1	6.06	1.49	1.38
54	D6	7	004	CB-CA	-5.93	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	D6	1	MHW	CG2-CB	-5.61	1.29	1.39
54	B6	1	MHW	CG2-CB	-5.54	1.29	1.39

The worst 5 of 41 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	D6	6	04X	C0-N1-C1	15.71	135.46	111.09
54	B6	6	04X	C0-N1-C1	13.07	131.37	111.09
54	D6	5	MHU	CB-CA-N	7.71	122.60	110.65
54	B6	1	MHW	O-C-CA	-7.51	117.11	124.22
54	B6	5	MHU	CB-CA-N	7.43	122.16	110.65

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
54	B6	1	MHW	O-C-CA-N
54	B6	3	DBB	C-CA-CB-CG
54	D6	3	DBB	O-C-CA-CB
54	D6	3	DBB	C-CA-CB-CG
54	D6	5	MHU	O-C-CA-CB

There are no ring outliers.

8 monomers are involved in 18 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
54	D6	5	MHU	5	0
54	B6	3	DBB	1	0
54	D6	6	04X	1	0
54	D6	1	MHW	4	0
54	D6	3	DBB	2	0
54	B6	5	MHU	2	0
54	D6	7	004	2	0
54	B6	7	004	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry

Of 500 ligands modelled in this entry, 500 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
54	B6	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B6	2:THR	C	3:DBB	N	1.61

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	1538/1539 (99%)	-0.39	22 (1%) 75 49	14, 54, 137, 179	0
1	CA	1539/1539 (100%)	-0.19	35 (2%) 60 31	27, 72, 145, 177	0
2	AB	218/218 (100%)	1.16	53 (24%) 0 0	43, 76, 100, 125	0
2	CB	218/218 (100%)	1.54	69 (31%) 0 0	63, 86, 106, 126	0
3	AC	206/206 (100%)	0.10	5 (2%) 59 30	39, 61, 83, 96	0
3	CC	206/206 (100%)	1.24	44 (21%) 0 0	57, 79, 97, 109	0
4	AD	205/205 (100%)	0.04	3 (1%) 73 46	35, 58, 79, 106	0
4	CD	205/205 (100%)	-0.20	3 (1%) 73 46	21, 40, 71, 90	0
5	AE	150/150 (100%)	0.01	3 (2%) 65 36	27, 51, 82, 106	0
5	CE	150/150 (100%)	0.02	1 (0%) 87 69	34, 59, 87, 104	0
6	AF	100/100 (100%)	-0.31	0 100 100	38, 59, 76, 84	0
6	CF	100/100 (100%)	-0.14	1 (1%) 82 59	46, 74, 96, 104	0
7	AG	151/151 (100%)	0.82	25 (16%) 1 0	54, 78, 98, 108	0
7	CG	151/151 (100%)	1.77	61 (40%) 0 0	77, 97, 107, 113	0
8	AH	129/129 (100%)	-0.07	1 (0%) 86 65	30, 50, 73, 81	0
8	CH	129/129 (100%)	0.08	4 (3%) 49 21	45, 65, 81, 90	0
9	AI	127/127 (100%)	1.01	22 (17%) 1 0	51, 73, 97, 113	0
9	CI	127/127 (100%)	1.42	36 (28%) 0 0	71, 91, 109, 126	0
10	AJ	98/98 (100%)	0.44	7 (7%) 16 5	46, 68, 92, 122	0
10	CJ	98/98 (100%)	1.87	41 (41%) 0 0	71, 93, 110, 124	0
11	AK	117/117 (100%)	0.58	14 (11%) 4 1	32, 64, 91, 110	0
11	CK	117/117 (100%)	0.11	3 (2%) 56 27	44, 68, 82, 91	0
12	AL	123/123 (100%)	0.11	3 (2%) 59 30	23, 39, 68, 94	0
12	CL	123/123 (100%)	0.07	4 (3%) 46 20	39, 52, 79, 99	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	AM	114/114 (100%)	0.42	7 (6%) 21 7	49, 71, 92, 105	0
13	CM	114/114 (100%)	1.96	55 (48%) 0 0	90, 103, 116, 120	0
14	AN	96/100 (96%)	0.83	16 (16%) 1 0	43, 63, 94, 106	0
14	CN	96/100 (96%)	1.89	36 (37%) 0 0	69, 91, 110, 118	0
15	AO	88/88 (100%)	-0.01	1 (1%) 80 56	31, 51, 68, 98	0
15	CO	88/88 (100%)	-0.02	2 (2%) 60 31	43, 63, 81, 105	0
16	AP	82/82 (100%)	0.48	4 (4%) 29 11	35, 49, 84, 100	0
16	CP	82/82 (100%)	0.66	12 (14%) 2 1	45, 62, 88, 106	0
17	AQ	80/80 (100%)	-0.03	3 (3%) 40 16	27, 54, 81, 124	0
17	CQ	80/80 (100%)	0.49	5 (6%) 20 6	44, 72, 96, 105	0
18	AR	55/55 (100%)	-0.14	3 (5%) 25 9	39, 53, 81, 112	0
18	CR	55/55 (100%)	0.01	1 (1%) 68 40	46, 56, 82, 111	0
19	AS	79/79 (100%)	1.00	14 (17%) 1 0	55, 72, 92, 101	0
19	CS	79/79 (100%)	3.08	55 (69%) 0 0	87, 103, 114, 123	0
20	AT	85/85 (100%)	0.10	3 (3%) 44 18	35, 51, 74, 111	0
20	CT	85/85 (100%)	1.25	20 (23%) 0 0	53, 72, 93, 96	0
21	AU	51/51 (100%)	1.69	21 (41%) 0 0	56, 76, 95, 108	0
21	CU	51/51 (100%)	0.40	6 (11%) 4 1	48, 72, 94, 108	0
22	BA	2897/2903 (99%)	-0.13	105 (3%) 42 17	0, 14, 130, 195	0
22	DA	2897/2903 (99%)	-0.07	71 (2%) 57 29	42, 83, 144, 183	0
23	BB	119/119 (100%)	-0.52	0 100 100	1, 24, 54, 90	0
23	DB	118/119 (99%)	-0.35	0 100 100	66, 111, 133, 141	0
24	BC	271/271 (100%)	-0.24	8 (2%) 50 22	3, 21, 43, 55	0
24	DC	271/271 (100%)	0.42	23 (8%) 10 3	42, 62, 76, 91	0
25	BD	209/209 (100%)	-0.45	0 100 100	0, 9, 38, 71	0
25	DD	209/209 (100%)	0.38	13 (6%) 20 7	46, 66, 81, 99	0
26	BE	201/201 (100%)	-0.43	0 100 100	0, 24, 56, 91	0
26	DE	201/201 (100%)	0.93	33 (16%) 1 0	45, 81, 98, 106	0
27	BF	177/177 (100%)	0.26	11 (6%) 20 7	15, 46, 88, 97	0
27	DF	177/177 (100%)	2.38	92 (51%) 0 0	85, 102, 117, 125	0
28	BG	176/176 (100%)	-0.16	0 100 100	15, 38, 64, 88	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	DG	176/176 (100%)	1.19	39 (22%) 0 0	71, 90, 104, 117	0
29	BH	149/149 (100%)	2.29	65 (43%) 0 0	25, 102, 121, 129	0
29	DH	149/149 (100%)	1.15	36 (24%) 0 0	25, 92, 107, 115	0
30	BI	141/141 (100%)	2.43	66 (46%) 0 0	84, 108, 121, 136	0
30	DI	141/141 (100%)	3.62	97 (68%) 0 0	96, 114, 123, 127	0
31	BJ	142/142 (100%)	-0.46	0 100 100	1, 5, 23, 43	0
31	DJ	142/142 (100%)	0.41	12 (8%) 10 3	48, 64, 79, 96	0
32	BK	122/122 (100%)	-0.54	0 100 100	2, 11, 37, 67	0
32	DK	122/122 (100%)	0.64	14 (11%) 4 1	48, 61, 81, 96	0
33	BL	143/143 (100%)	-0.35	0 100 100	0, 21, 48, 76	0
33	DL	143/143 (100%)	1.25	36 (25%) 0 0	42, 77, 91, 113	0
34	BM	136/136 (100%)	-0.49	0 100 100	1, 9, 30, 87	0
34	DM	136/136 (100%)	0.80	18 (13%) 3 1	42, 67, 82, 108	0
35	BN	120/120 (100%)	-0.47	0 100 100	1, 6, 17, 62	0
35	DN	120/120 (100%)	0.58	17 (14%) 2 1	54, 74, 88, 110	0
36	BO	116/116 (100%)	-0.26	0 100 100	14, 27, 46, 52	0
36	DO	116/116 (100%)	1.68	45 (38%) 0 0	74, 91, 102, 114	0
37	BP	114/114 (100%)	-0.31	0 100 100	5, 19, 48, 70	0
37	DP	114/114 (100%)	0.58	13 (11%) 5 1	56, 68, 84, 93	0
38	BQ	117/117 (100%)	-0.45	0 100 100	0, 3, 11, 42	0
38	DQ	117/117 (100%)	0.40	9 (7%) 13 4	52, 66, 77, 84	0
39	BR	103/103 (100%)	-0.48	0 100 100	0, 9, 31, 63	0
39	DR	103/103 (100%)	0.87	18 (17%) 1 0	50, 75, 87, 97	0
40	BS	110/110 (100%)	-0.38	0 100 100	1, 3, 23, 84	0
40	DS	110/110 (100%)	1.07	25 (22%) 0 0	56, 73, 89, 96	0
41	BT	93/93 (100%)	-0.02	2 (2%) 62 33	10, 27, 80, 101	0
41	DT	93/93 (100%)	1.82	39 (41%) 0 0	63, 83, 103, 110	0
42	BU	102/102 (100%)	-0.10	3 (2%) 51 23	10, 30, 61, 92	0
42	DU	102/102 (100%)	2.61	53 (51%) 0 0	70, 88, 106, 112	0
43	BV	94/94 (100%)	-0.36	0 100 100	4, 22, 43, 54	0
43	DV	94/94 (100%)	0.46	9 (9%) 8 2	65, 82, 94, 99	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	BW	76/76 (100%)	-0.42	0 100 100	3, 10, 27, 48	0
44	DW	75/76 (98%)	1.49	28 (37%) 0 0	54, 79, 88, 108	0
45	BX	77/77 (100%)	-0.36	0 100 100	6, 24, 52, 77	0
45	DX	77/77 (100%)	0.61	14 (18%) 1 0	49, 69, 86, 89	0
46	BY	63/63 (100%)	0.05	3 (4%) 30 11	22, 44, 74, 96	0
46	DY	63/63 (100%)	1.28	15 (23%) 0 0	71, 90, 99, 103	0
47	BZ	58/58 (100%)	-0.38	0 100 100	2, 7, 29, 41	0
47	DZ	58/58 (100%)	0.26	3 (5%) 27 10	52, 70, 84, 89	0
48	B0	56/56 (100%)	-0.53	0 100 100	0, 8, 35, 70	0
48	D0	56/56 (100%)	0.86	8 (14%) 2 1	53, 74, 91, 104	0
49	B1	50/50 (100%)	-0.28	2 (4%) 38 15	13, 31, 54, 87	0
49	D1	50/50 (100%)	1.17	11 (22%) 0 0	68, 84, 93, 105	0
50	B2	46/46 (100%)	-0.31	1 (2%) 62 33	3, 9, 17, 90	0
50	D2	46/46 (100%)	1.18	9 (19%) 1 0	53, 66, 79, 100	0
51	B3	64/64 (100%)	-0.32	0 100 100	4, 9, 18, 31	0
51	D3	64/64 (100%)	0.94	15 (23%) 0 0	58, 71, 79, 85	0
52	B4	38/38 (100%)	-0.08	0 100 100	11, 20, 35, 52	0
52	D4	38/38 (100%)	1.59	13 (34%) 0 0	63, 74, 85, 99	0
53	B5	191/228 (83%)	4.42	168 (87%) 0 0	85, 111, 123, 134	0
54	B6	2/7 (28%)	0.27	0 100 100	5, 5, 5, 9	0
54	D6	2/7 (28%)	0.74	0 100 100	53, 53, 53, 62	0
All	All	20738/20808 (99%)	0.28	1986 (9%) 8 2	0, 64, 119, 195	0

The worst 5 of 1986 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
30	DI	6	GLN	16.5
30	BI	53	LEU	16.3
22	BA	2100	G	15.9
30	DI	2	ALA	15.0
22	BA	2104	C	14.5

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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
54	MHU	D6	5	15/16	0.82	0.38	45,58,69,72	0
54	DBB	D6	3	6/7	0.88	0.50	45,50,65,70	0
54	04X	D6	6	15/16	0.90	0.27	47,59,67,73	0
54	MHU	B6	5	15/16	0.93	0.24	3,7,15,15	0
54	MHW	D6	1	9/10	0.94	0.18	55,59,63,66	0
54	DBB	B6	3	6/7	0.94	0.28	8,14,20,33	0
54	004	D6	7	10/11	0.95	0.23	47,52,61,64	0
54	MHW	B6	1	9/10	0.97	0.20	8,13,21,30	0
54	004	B6	7	10/11	0.97	0.28	2,4,6,6	0
54	04X	B6	6	15/16	0.97	0.19	6,11,15,20	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1627	1/1	0.17	0.55	76,76,76,76	0
55	MG	DA	3071	1/1	0.18	0.59	93,93,93,93	0
55	MG	DA	3072	1/1	0.23	0.50	89,89,89,89	0
55	MG	AA	1644	1/1	0.24	0.69	49,49,49,49	0
55	MG	DA	3061	1/1	0.25	1.80	97,97,97,97	0
55	MG	DA	3093	1/1	0.26	0.35	99,99,99,99	0
55	MG	CA	1631	1/1	0.35	0.26	98,98,98,98	0
55	MG	DA	3011	1/1	0.41	0.30	74,74,74,74	0
55	MG	DA	3057	1/1	0.41	0.29	82,82,82,82	0
55	MG	DA	3116	1/1	0.43	0.34	92,92,92,92	0
55	MG	DA	3005	1/1	0.44	0.12	90,90,90,90	0
55	MG	DA	3041	1/1	0.46	0.42	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	CA	1629	1/1	0.49	0.10	84,84,84,84	0
55	MG	CA	1621	1/1	0.51	0.09	67,67,67,67	0
55	MG	CA	1637	1/1	0.52	0.37	80,80,80,80	0
55	MG	DA	3132	1/1	0.53	0.79	85,85,85,85	0
55	MG	DA	3027	1/1	0.55	0.12	82,82,82,82	0
55	MG	DA	3104	1/1	0.56	0.18	76,76,76,76	0
55	MG	BA	3055	1/1	0.58	0.25	50,50,50,50	0
55	MG	DA	3120	1/1	0.58	0.56	95,95,95,95	0
55	MG	DA	3085	1/1	0.58	0.19	78,78,78,78	0
55	MG	DA	3134	1/1	0.58	0.58	87,87,87,87	0
55	MG	CA	1628	1/1	0.59	0.28	100,100,100,100	0
55	MG	DA	3070	1/1	0.60	0.11	93,93,93,93	0
55	MG	DA	3016	1/1	0.60	0.42	84,84,84,84	0
55	MG	CA	1627	1/1	0.61	0.29	88,88,88,88	0
55	MG	DA	3077	1/1	0.62	0.26	76,76,76,76	0
55	MG	AA	1665	1/1	0.63	0.74	53,53,53,53	0
55	MG	AA	1635	1/1	0.63	0.27	76,76,76,76	0
55	MG	BA	3119	1/1	0.64	0.36	49,49,49,49	0
55	MG	BA	3135	1/1	0.65	0.27	48,48,48,48	0
55	MG	CA	1609	1/1	0.67	0.09	78,78,78,78	0
55	MG	DA	3032	1/1	0.67	0.20	78,78,78,78	0
55	MG	DA	3062	1/1	0.68	0.77	70,70,70,70	0
55	MG	DA	3079	1/1	0.68	0.08	94,94,94,94	0
55	MG	DA	3056	1/1	0.68	0.28	80,80,80,80	0
55	MG	DA	3028	1/1	0.69	0.56	86,86,86,86	0
55	MG	DA	3111	1/1	0.69	0.12	81,81,81,81	0
55	MG	DA	3008	1/1	0.70	0.16	80,80,80,80	0
55	MG	CA	1636	1/1	0.70	0.29	97,97,97,97	0
55	MG	BA	3016	1/1	0.70	0.22	31,31,31,31	0
55	MG	DA	3021	1/1	0.70	0.34	62,62,62,62	0
55	MG	AA	1651	1/1	0.70	0.34	55,55,55,55	0
55	MG	DA	3137	1/1	0.70	0.27	84,84,84,84	0
55	MG	DA	3153	1/1	0.70	0.12	68,68,68,68	0
55	MG	DA	3078	1/1	0.71	0.20	95,95,95,95	0
55	MG	AA	1667	1/1	0.72	0.68	54,54,54,54	0
55	MG	DA	3082	1/1	0.72	0.11	65,65,65,65	0
55	MG	BA	3011	1/1	0.72	0.16	30,30,30,30	0
55	MG	BA	3115	1/1	0.73	0.51	76,76,76,76	0
55	MG	BA	3048	1/1	0.73	0.08	26,26,26,26	0
55	MG	BA	3090	1/1	0.73	0.20	33,33,33,33	0
55	MG	BA	3098	1/1	0.73	0.59	73,73,73,73	0
55	MG	DA	3024	1/1	0.73	0.17	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1670	1/1	0.74	0.40	45,45,45,45	0
55	MG	BA	3047	1/1	0.74	0.11	40,40,40,40	0
55	MG	DA	3121	1/1	0.74	0.16	60,60,60,60	0
55	MG	DA	3122	1/1	0.74	0.08	64,64,64,64	0
55	MG	DA	3155	1/1	0.74	0.28	37,37,37,37	0
55	MG	DA	3165	1/1	0.74	0.38	43,43,43,43	0
55	MG	CA	1635	1/1	0.75	0.10	94,94,94,94	0
55	MG	AA	1634	1/1	0.75	0.09	49,49,49,49	0
55	MG	DA	3150	1/1	0.75	0.21	50,50,50,50	0
55	MG	DA	3151	1/1	0.75	0.47	40,40,40,40	0
55	MG	DA	3094	1/1	0.75	0.20	83,83,83,83	0
55	MG	BA	3154	1/1	0.75	0.23	21,21,21,21	0
55	MG	CA	1605	1/1	0.75	0.25	78,78,78,78	0
55	MG	CA	1655	1/1	0.76	1.02	67,67,67,67	0
55	MG	DA	3010	1/1	0.76	0.10	64,64,64,64	0
55	MG	AA	1601	1/1	0.76	0.11	61,61,61,61	0
55	MG	DA	3145	1/1	0.76	0.09	68,68,68,68	0
55	MG	DA	3164	1/1	0.76	0.76	56,56,56,56	0
55	MG	DA	3149	1/1	0.76	0.19	49,49,49,49	0
55	MG	DB	201	1/1	0.76	0.05	96,96,96,96	0
55	MG	AA	1646	1/1	0.77	0.21	50,50,50,50	0
55	MG	AA	1648	1/1	0.77	0.26	39,39,39,39	0
55	MG	DA	3019	1/1	0.77	0.15	84,84,84,84	0
55	MG	DA	3091	1/1	0.77	0.13	79,79,79,79	0
55	MG	DA	3029	1/1	0.77	0.37	66,66,66,66	0
55	MG	DA	3002	1/1	0.77	0.52	81,81,81,81	0
55	MG	DA	3106	1/1	0.78	0.31	70,70,70,70	0
55	MG	BA	3031	1/1	0.78	0.11	7,7,7,7	0
55	MG	DA	3038	1/1	0.78	0.14	63,63,63,63	0
55	MG	DA	3084	1/1	0.78	0.15	75,75,75,75	0
55	MG	BA	3190	1/1	0.78	0.53	42,42,42,42	0
55	MG	DA	3042	1/1	0.78	0.14	69,69,69,69	0
55	MG	DA	3158	1/1	0.78	0.46	58,58,58,58	0
55	MG	DA	3160	1/1	0.78	0.20	47,47,47,47	0
55	MG	DA	3048	1/1	0.78	0.22	93,93,93,93	0
55	MG	CA	1602	1/1	0.78	0.12	69,69,69,69	0
55	MG	CA	1626	1/1	0.78	0.26	66,66,66,66	0
55	MG	DA	3092	1/1	0.79	0.44	94,94,94,94	0
55	MG	BA	3015	1/1	0.79	0.41	61,61,61,61	0
55	MG	AA	1623	1/1	0.79	0.17	49,49,49,49	0
55	MG	DA	3161	1/1	0.79	0.33	48,48,48,48	0
55	MG	DA	3014	1/1	0.79	0.36	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3015	1/1	0.79	0.57	77,77,77,77	0
55	MG	BA	3025	1/1	0.79	0.18	40,40,40,40	0
55	MG	DA	3126	1/1	0.80	0.17	61,61,61,61	0
55	MG	DA	3040	1/1	0.80	0.21	66,66,66,66	0
55	MG	DA	3136	1/1	0.81	0.42	81,81,81,81	0
55	MG	CA	1652	1/1	0.81	0.11	62,62,62,62	0
55	MG	DA	3044	1/1	0.81	0.21	83,83,83,83	0
55	MG	BA	3004	1/1	0.81	0.14	52,52,52,52	0
55	MG	BA	3070	1/1	0.81	0.11	37,37,37,37	0
55	MG	DA	3133	1/1	0.81	0.19	55,55,55,55	0
55	MG	BA	3019	1/1	0.81	0.26	1,1,1,1	0
55	MG	BA	3029	1/1	0.82	0.12	35,35,35,35	0
55	MG	DA	3090	1/1	0.82	0.08	59,59,59,59	0
55	MG	DA	3154	1/1	0.82	0.24	40,40,40,40	0
55	MG	DA	3033	1/1	0.82	0.09	54,54,54,54	0
55	MG	DA	3098	1/1	0.82	0.08	50,50,50,50	0
55	MG	DB	203	1/1	0.82	0.09	90,90,90,90	0
55	MG	DA	3013	1/1	0.83	0.11	64,64,64,64	0
55	MG	BA	3157	1/1	0.83	0.34	34,34,34,34	0
55	MG	AA	1652	1/1	0.83	0.13	40,40,40,40	0
55	MG	AA	1657	1/1	0.83	0.34	37,37,37,37	0
55	MG	AA	1662	1/1	0.83	0.27	49,49,49,49	0
55	MG	CA	1638	1/1	0.83	0.16	74,74,74,74	0
55	MG	DA	3058	1/1	0.83	0.16	70,70,70,70	0
55	MG	DA	3166	1/1	0.83	0.19	44,44,44,44	0
55	MG	AA	1630	1/1	0.83	0.15	67,67,67,67	0
55	MG	DA	3099	1/1	0.83	0.41	82,82,82,82	0
55	MG	DA	3009	1/1	0.84	0.09	69,69,69,69	0
55	MG	DA	3055	1/1	0.84	0.07	57,57,57,57	0
55	MG	DA	3115	1/1	0.84	0.09	79,79,79,79	0
55	MG	BA	3161	1/1	0.84	0.17	15,15,15,15	0
55	MG	BA	3168	1/1	0.84	0.24	21,21,21,21	0
55	MG	DA	3006	1/1	0.84	0.22	98,98,98,98	0
55	MG	CA	1611	1/1	0.84	0.17	69,69,69,69	0
55	MG	DA	3060	1/1	0.85	0.22	72,72,72,72	0
55	MG	BA	3113	1/1	0.85	0.12	2,2,2,2	0
55	MG	CA	1615	1/1	0.85	0.23	56,56,56,56	0
55	MG	AA	1659	1/1	0.85	0.48	32,32,32,32	0
55	MG	BA	3045	1/1	0.85	0.12	4,4,4,4	0
55	MG	DA	3046	1/1	0.85	0.11	62,62,62,62	0
55	MG	DA	3127	1/1	0.85	0.13	88,88,88,88	0
55	MG	AA	1671	1/1	0.85	0.34	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	CA	1604	1/1	0.85	0.07	78,78,78,78	0
55	MG	DA	3100	1/1	0.85	0.31	73,73,73,73	0
55	MG	CM	201	1/1	0.85	0.38	50,50,50,50	0
55	MG	AA	1617	1/1	0.85	0.11	62,62,62,62	0
55	MG	DA	3144	1/1	0.85	0.30	58,58,58,58	0
55	MG	BA	3109	1/1	0.85	0.21	1,1,1,1	0
55	MG	CA	1620	1/1	0.86	0.13	81,81,81,81	0
55	MG	BA	3076	1/1	0.86	0.28	56,56,56,56	0
55	MG	DA	3102	1/1	0.86	0.31	72,72,72,72	0
55	MG	DA	3018	1/1	0.86	0.11	68,68,68,68	0
55	MG	BA	3129	1/1	0.86	0.13	0,0,0,0	0
55	MG	DA	3004	1/1	0.86	0.48	87,87,87,87	0
55	MG	DA	3112	1/1	0.86	0.13	64,64,64,64	0
55	MG	DA	3054	1/1	0.87	0.08	62,62,62,62	0
55	MG	DA	3135	1/1	0.87	0.08	46,46,46,46	0
55	MG	AA	1624	1/1	0.87	0.10	50,50,50,50	0
55	MG	DA	3063	1/1	0.87	0.12	53,53,53,53	0
55	MG	DA	3069	1/1	0.87	0.20	77,77,77,77	0
55	MG	BA	3150	1/1	0.87	0.20	37,37,37,37	0
55	MG	BA	3093	1/1	0.87	0.10	26,26,26,26	0
55	MG	BA	3028	1/1	0.87	0.10	3,3,3,3	0
55	MG	DA	3073	1/1	0.87	0.10	35,35,35,35	0
55	MG	BA	3080	1/1	0.87	0.09	24,24,24,24	0
55	MG	BA	3003	1/1	0.88	0.10	29,29,29,29	0
55	MG	AA	1607	1/1	0.88	0.12	48,48,48,48	0
55	MG	BA	3061	1/1	0.88	0.64	66,66,66,66	0
55	MG	CA	1606	1/1	0.88	0.25	76,76,76,76	0
55	MG	BA	3160	1/1	0.88	0.20	5,5,5,5	0
55	MG	BA	3124	1/1	0.88	0.09	9,9,9,9	0
55	MG	BA	3166	1/1	0.88	0.20	37,37,37,37	0
55	MG	CA	1646	1/1	0.88	0.23	36,36,36,36	0
55	MG	DA	3103	1/1	0.88	0.28	67,67,67,67	0
55	MG	CA	1650	1/1	0.88	0.63	50,50,50,50	0
55	MG	BA	3167	1/1	0.88	0.17	22,22,22,22	0
55	MG	DA	3152	1/1	0.88	0.32	55,55,55,55	0
55	MG	CA	1654	1/1	0.88	0.20	26,26,26,26	0
55	MG	AA	1639	1/1	0.88	0.10	67,67,67,67	0
55	MG	DA	3081	1/1	0.88	0.12	62,62,62,62	0
55	MG	CA	1622	1/1	0.88	0.12	57,57,57,57	0
55	MG	DA	3118	1/1	0.88	0.11	73,73,73,73	0
55	MG	BA	3180	1/1	0.88	0.62	25,25,25,25	0
55	MG	DA	3025	1/1	0.88	0.12	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3088	1/1	0.88	0.08	69,69,69,69	0
55	MG	DA	3125	1/1	0.88	0.17	86,86,86,86	0
55	MG	DA	3089	1/1	0.88	0.62	91,91,91,91	0
55	MG	BA	3002	1/1	0.88	0.09	18,18,18,18	0
55	MG	DQ	201	1/1	0.88	0.30	40,40,40,40	0
55	MG	BA	3118	1/1	0.89	0.14	34,34,34,34	0
55	MG	AA	1636	1/1	0.89	0.18	42,42,42,42	0
55	MG	DA	3113	1/1	0.89	0.46	75,75,75,75	0
55	MG	DA	3157	1/1	0.89	0.14	29,29,29,29	0
55	MG	CA	1608	1/1	0.89	0.12	65,65,65,65	0
55	MG	CA	1648	1/1	0.89	0.14	51,51,51,51	0
55	MG	BA	3056	1/1	0.89	0.19	22,22,22,22	0
55	MG	BA	3020	1/1	0.89	0.13	5,5,5,5	0
55	MG	DA	3045	1/1	0.89	0.21	61,61,61,61	0
55	MG	BB	202	1/1	0.89	0.10	4,4,4,4	0
55	MG	CA	1633	1/1	0.89	0.80	82,82,82,82	0
55	MG	BA	3133	1/1	0.89	0.34	57,57,57,57	0
55	MG	AA	1614	1/1	0.89	0.19	66,66,66,66	0
55	MG	BA	3026	1/1	0.90	0.10	6,6,6,6	0
55	MG	AA	1658	1/1	0.90	0.16	35,35,35,35	0
55	MG	BA	3077	1/1	0.90	0.07	38,38,38,38	0
55	MG	AA	1643	1/1	0.90	0.15	23,23,23,23	0
55	MG	DA	3138	1/1	0.90	0.36	37,37,37,37	0
55	MG	DA	3139	1/1	0.90	0.56	47,47,47,47	0
55	MG	BA	3088	1/1	0.90	0.08	29,29,29,29	0
55	MG	DA	3043	1/1	0.90	0.07	67,67,67,67	0
55	MG	BA	3052	1/1	0.90	0.09	21,21,21,21	0
55	MG	BA	3091	1/1	0.90	0.05	48,48,48,48	0
55	MG	CA	1624	1/1	0.90	0.07	52,52,52,52	0
55	MG	DA	3047	1/1	0.90	0.14	71,71,71,71	0
55	MG	BA	3007	1/1	0.90	0.09	32,32,32,32	0
55	MG	DA	3049	1/1	0.90	0.10	69,69,69,69	0
55	MG	DA	3083	1/1	0.90	0.24	65,65,65,65	0
55	MG	DA	3053	1/1	0.90	0.13	39,39,39,39	0
55	MG	BB	203	1/1	0.90	0.09	7,7,7,7	0
55	MG	DA	3087	1/1	0.90	0.05	58,58,58,58	0
55	MG	BA	3145	1/1	0.90	0.16	26,26,26,26	0
55	MG	BA	3036	1/1	0.90	0.15	23,23,23,23	0
55	MG	CA	1630	1/1	0.90	0.65	102,102,102,102	0
55	MG	BA	3099	1/1	0.90	0.16	21,21,21,21	0
55	MG	DA	3130	1/1	0.90	0.19	43,43,43,43	0
55	MG	DB	202	1/1	0.90	0.13	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	CA	1632	1/1	0.90	0.07	75,75,75,75	0
55	MG	BA	3044	1/1	0.90	0.21	8,8,8,8	0
55	MG	DA	3142	1/1	0.91	0.40	39,39,39,39	0
55	MG	BA	3050	1/1	0.91	0.07	7,7,7,7	0
55	MG	AA	1631	1/1	0.91	0.16	52,52,52,52	0
55	MG	DA	3147	1/1	0.91	0.15	35,35,35,35	0
55	MG	DA	3065	1/1	0.91	0.07	41,41,41,41	0
55	MG	BA	3054	1/1	0.91	0.08	7,7,7,7	0
55	MG	CA	1645	1/1	0.91	0.12	32,32,32,32	0
55	MG	BA	3112	1/1	0.91	0.09	20,20,20,20	0
55	MG	BA	3073	1/1	0.91	0.15	9,9,9,9	0
55	MG	BA	3173	1/1	0.91	0.29	30,30,30,30	0
55	MG	BA	3075	1/1	0.91	0.14	6,6,6,6	0
55	MG	DA	3035	1/1	0.91	0.13	71,71,71,71	0
55	MG	DA	3128	1/1	0.91	0.07	74,74,74,74	0
55	MG	CA	1653	1/1	0.91	0.38	48,48,48,48	0
55	MG	DA	3101	1/1	0.91	0.08	63,63,63,63	0
55	MG	DA	3163	1/1	0.91	0.21	47,47,47,47	0
55	MG	DA	3080	1/1	0.91	0.10	91,91,91,91	0
55	MG	BA	3152	1/1	0.91	0.27	8,8,8,8	0
55	MG	CA	1618	1/1	0.91	0.21	35,35,35,35	0
55	MG	DA	3059	1/1	0.91	0.09	42,42,42,42	0
55	MG	DA	3107	1/1	0.91	0.19	56,56,56,56	0
55	MG	BA	3092	1/1	0.91	0.19	42,42,42,42	0
55	MG	BA	3040	1/1	0.91	0.39	2,2,2,2	0
55	MG	BA	3178	1/1	0.92	0.35	12,12,12,12	0
55	MG	AA	1668	1/1	0.92	0.38	33,33,33,33	0
55	MG	BA	3059	1/1	0.92	0.12	5,5,5,5	0
55	MG	DA	3108	1/1	0.92	0.14	55,55,55,55	0
55	MG	AA	1669	1/1	0.92	0.27	34,34,34,34	0
55	MG	DA	3146	1/1	0.92	0.11	41,41,41,41	0
55	MG	BA	3136	1/1	0.92	0.57	43,43,43,43	0
55	MG	DA	3148	1/1	0.92	0.22	51,51,51,51	0
55	MG	CA	1601	1/1	0.92	0.17	52,52,52,52	0
55	MG	DA	3031	1/1	0.92	0.14	59,59,59,59	0
55	MG	BA	3144	1/1	0.92	0.24	24,24,24,24	0
55	MG	BA	3095	1/1	0.92	0.08	14,14,14,14	0
55	MG	DA	3007	1/1	0.92	0.37	80,80,80,80	0
55	MG	BA	3066	1/1	0.92	0.14	2,2,2,2	0
55	MG	AA	1610	1/1	0.92	0.15	51,51,51,51	0
55	MG	DA	3064	1/1	0.92	0.19	48,48,48,48	0
55	MG	AA	1604	1/1	0.92	0.08	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3111	1/1	0.92	0.08	27,27,27,27	0
55	MG	DA	3095	1/1	0.92	0.24	69,69,69,69	0
55	MG	DA	3129	1/1	0.92	0.13	70,70,70,70	0
55	MG	DA	3096	1/1	0.92	0.09	54,54,54,54	0
55	MG	AA	1661	1/1	0.92	0.35	23,23,23,23	0
55	MG	AA	1616	1/1	0.92	0.09	62,62,62,62	0
55	MG	AA	1663	1/1	0.92	0.23	49,49,49,49	0
55	MG	AA	1602	1/1	0.92	0.38	53,53,53,53	0
55	MG	AA	1609	1/1	0.92	0.08	33,33,33,33	0
55	MG	BA	3034	1/1	0.92	0.13	5,5,5,5	0
55	MG	AA	1655	1/1	0.93	0.14	20,20,20,20	0
55	MG	BA	3179	1/1	0.93	0.34	30,30,30,30	0
55	MG	BA	3057	1/1	0.93	0.21	20,20,20,20	0
55	MG	BA	3181	1/1	0.93	0.12	26,26,26,26	0
55	MG	BA	3038	1/1	0.93	0.14	1,1,1,1	0
55	MG	BA	3023	1/1	0.93	0.17	0,0,0,0	0
55	MG	AA	1605	1/1	0.93	0.20	29,29,29,29	0
55	MG	AA	1606	1/1	0.93	0.06	58,58,58,58	0
55	MG	BA	3071	1/1	0.93	0.14	17,17,17,17	0
55	MG	BA	3102	1/1	0.93	0.18	17,17,17,17	0
55	MG	BA	3151	1/1	0.93	0.14	23,23,23,23	0
55	MG	BA	3027	1/1	0.93	0.35	36,36,36,36	0
55	MG	CA	1639	1/1	0.93	0.13	43,43,43,43	0
55	MG	CA	1640	1/1	0.93	0.15	36,36,36,36	0
55	MG	BA	3074	1/1	0.93	0.21	32,32,32,32	0
55	MG	BA	3014	1/1	0.93	0.19	26,26,26,26	0
55	MG	DA	3159	1/1	0.93	0.26	57,57,57,57	0
55	MG	BA	3001	1/1	0.93	0.05	21,21,21,21	0
55	MG	AA	1619	1/1	0.93	0.15	65,65,65,65	0
55	MG	BA	3032	1/1	0.93	0.12	2,2,2,2	0
55	MG	CA	1619	1/1	0.93	0.12	27,27,27,27	0
55	MG	AA	1629	1/1	0.93	0.17	54,54,54,54	0
55	MG	BA	3120	1/1	0.93	0.12	11,11,11,11	0
55	MG	BA	3171	1/1	0.93	0.17	20,20,20,20	0
55	MG	DA	3036	1/1	0.93	0.12	57,57,57,57	0
55	MG	CA	1623	1/1	0.93	0.17	66,66,66,66	0
55	MG	BA	3123	1/1	0.93	0.13	11,11,11,11	0
55	MG	BA	3138	1/1	0.94	0.30	0,0,0,0	0
55	MG	DA	3030	1/1	0.94	0.27	61,61,61,61	0
55	MG	BA	3140	1/1	0.94	0.15	7,7,7,7	0
55	MG	AM	201	1/1	0.94	0.61	50,50,50,50	0
55	MG	CA	1641	1/1	0.94	0.40	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1650	1/1	0.94	0.25	20,20,20,20	0
55	MG	AA	1638	1/1	0.94	0.11	63,63,63,63	0
55	MG	BA	3108	1/1	0.94	0.16	5,5,5,5	0
55	MG	BA	3053	1/1	0.94	0.18	0,0,0,0	0
55	MG	AA	1613	1/1	0.94	0.07	23,23,23,23	0
55	MG	BA	3155	1/1	0.94	0.18	2,2,2,2	0
55	MG	CA	1610	1/1	0.94	0.07	58,58,58,58	0
55	MG	AA	1640	1/1	0.94	0.10	57,57,57,57	0
55	MG	DA	3141	1/1	0.94	0.42	45,45,45,45	0
55	MG	CA	1614	1/1	0.94	0.05	52,52,52,52	0
55	MG	DA	3001	1/1	0.94	0.08	37,37,37,37	0
55	MG	BA	3159	1/1	0.94	0.14	24,24,24,24	0
55	MG	CA	1616	1/1	0.94	0.10	38,38,38,38	0
55	MG	BA	3079	1/1	0.94	0.09	21,21,21,21	0
55	MG	AA	1608	1/1	0.94	0.15	20,20,20,20	0
55	MG	BA	3087	1/1	0.94	0.09	27,27,27,27	0
55	MG	BA	3041	1/1	0.94	0.10	11,11,11,11	0
55	MG	BA	3089	1/1	0.94	0.14	1,1,1,1	0
55	MG	BA	3122	1/1	0.94	0.17	0,0,0,0	0
55	MG	AA	1625	1/1	0.94	0.09	51,51,51,51	0
55	MG	BA	3174	1/1	0.94	0.14	5,5,5,5	0
55	MG	BA	3175	1/1	0.94	0.10	9,9,9,9	0
55	MG	BA	3177	1/1	0.94	0.10	9,9,9,9	0
55	MG	AA	1615	1/1	0.94	0.13	63,63,63,63	0
55	MG	BA	3065	1/1	0.94	0.12	1,1,1,1	0
55	MG	BA	3046	1/1	0.94	0.17	3,3,3,3	0
55	MG	AA	1620	1/1	0.94	0.06	55,55,55,55	0
55	MG	DA	3068	1/1	0.94	0.07	60,60,60,60	0
55	MG	DA	3022	1/1	0.94	0.13	43,43,43,43	0
55	MG	BA	3183	1/1	0.94	0.26	22,22,22,22	0
55	MG	DA	3119	1/1	0.94	0.07	58,58,58,58	0
55	MG	DA	3167	1/1	0.94	0.13	30,30,30,30	0
55	MG	BA	3097	1/1	0.94	0.12	0,0,0,0	0
55	MG	DA	3026	1/1	0.94	0.70	75,75,75,75	0
55	MG	BA	3193	1/1	0.94	0.17	12,12,12,12	0
55	MG	BB	201	1/1	0.94	0.08	28,28,28,28	0
55	MG	DA	3051	1/1	0.95	0.05	33,33,33,33	0
55	MG	DA	3052	1/1	0.95	0.06	47,47,47,47	0
55	MG	CA	1642	1/1	0.95	0.20	25,25,25,25	0
55	MG	BA	3182	1/1	0.95	0.22	14,14,14,14	0
55	MG	AA	1660	1/1	0.95	0.09	41,41,41,41	0
55	MG	CA	1647	1/1	0.95	0.31	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3184	1/1	0.95	0.13	8,8,8,8	0
55	MG	BA	3039	1/1	0.95	0.22	1,1,1,1	0
55	MG	DA	3097	1/1	0.95	0.15	67,67,67,67	0
55	MG	CA	1651	1/1	0.95	0.25	72,72,72,72	0
55	MG	BA	3084	1/1	0.95	0.10	7,7,7,7	0
55	MG	DA	3143	1/1	0.95	0.18	35,35,35,35	0
55	MG	BA	3194	1/1	0.95	0.19	22,22,22,22	0
55	MG	BA	3195	1/1	0.95	0.14	36,36,36,36	0
55	MG	BA	3137	1/1	0.95	0.29	2,2,2,2	0
55	MG	BA	3096	1/1	0.95	0.18	2,2,2,2	0
55	MG	AA	1666	1/1	0.95	0.25	32,32,32,32	0
55	MG	DA	3066	1/1	0.95	0.12	45,45,45,45	0
55	MG	BA	3169	1/1	0.95	0.10	4,4,4,4	0
55	MG	DA	3034	1/1	0.95	0.20	58,58,58,58	0
55	MG	BA	3064	1/1	0.95	0.15	0,0,0,0	0
55	MG	CA	1603	1/1	0.95	0.15	45,45,45,45	0
55	MG	DA	3037	1/1	0.95	0.08	76,76,76,76	0
55	MG	DA	3114	1/1	0.95	0.09	52,52,52,52	0
55	MG	BA	3024	1/1	0.95	0.07	3,3,3,3	0
55	MG	DA	3039	1/1	0.95	0.10	53,53,53,53	0
55	MG	BA	3101	1/1	0.95	0.09	11,11,11,11	0
55	MG	AA	1618	1/1	0.95	0.09	34,34,34,34	0
55	MG	BA	3176	1/1	0.95	0.27	24,24,24,24	0
55	MG	BA	3104	1/1	0.95	0.26	0,0,0,0	0
55	MG	BA	3105	1/1	0.95	0.22	0,0,0,0	0
55	MG	DA	3123	1/1	0.95	0.15	44,44,44,44	0
55	MG	DA	3124	1/1	0.95	0.16	41,41,41,41	0
55	MG	DA	3012	1/1	0.95	0.14	39,39,39,39	0
55	MG	BA	3125	1/1	0.95	0.17	2,2,2,2	0
55	MG	CA	1612	1/1	0.95	0.05	43,43,43,43	0
55	MG	BA	3156	1/1	0.95	0.15	9,9,9,9	0
55	MG	BA	3068	1/1	0.95	0.17	1,1,1,1	0
55	MG	BA	3117	1/1	0.96	0.16	1,1,1,1	0
55	MG	AA	1633	1/1	0.96	0.08	35,35,35,35	0
55	MG	DA	3003	1/1	0.96	0.13	66,66,66,66	0
55	MG	BA	3082	1/1	0.96	0.07	6,6,6,6	0
55	MG	BA	3083	1/1	0.96	0.22	34,34,34,34	0
55	MG	BA	3185	1/1	0.96	0.14	5,5,5,5	0
55	MG	BA	3186	1/1	0.96	0.23	12,12,12,12	0
55	MG	BA	3188	1/1	0.96	0.10	35,35,35,35	0
55	MG	BA	3121	1/1	0.96	0.06	14,14,14,14	0
55	MG	BA	3191	1/1	0.96	0.18	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3192	1/1	0.96	0.23	11,11,11,11	0
55	MG	BA	3069	1/1	0.96	0.15	64,64,64,64	0
55	MG	BA	3100	1/1	0.96	0.10	9,9,9,9	0
55	MG	BA	3085	1/1	0.96	0.17	11,11,11,11	0
55	MG	AA	1626	1/1	0.96	0.21	26,26,26,26	0
55	MG	CA	1634	1/1	0.96	0.06	58,58,58,58	0
55	MG	BA	3163	1/1	0.96	0.14	27,27,27,27	0
55	MG	BA	3165	1/1	0.96	0.12	3,3,3,3	0
55	MG	BA	3126	1/1	0.96	0.15	3,3,3,3	0
55	MG	BA	3103	1/1	0.96	0.07	7,7,7,7	0
55	MG	DA	3023	1/1	0.96	0.10	60,60,60,60	0
55	MG	BA	3012	1/1	0.96	0.16	0,0,0,0	0
55	MG	DA	3105	1/1	0.96	0.12	52,52,52,52	0
55	MG	BA	3049	1/1	0.96	0.14	3,3,3,3	0
55	MG	BA	3170	1/1	0.96	0.26	22,22,22,22	0
55	MG	BA	3022	1/1	0.96	0.15	0,0,0,0	0
55	MG	DA	3110	1/1	0.96	0.24	45,45,45,45	0
55	MG	CA	1644	1/1	0.96	0.38	36,36,36,36	0
55	MG	DA	3156	1/1	0.96	0.13	58,58,58,58	0
55	MG	CA	1607	1/1	0.96	0.14	55,55,55,55	0
55	MG	BA	3172	1/1	0.96	0.12	16,16,16,16	0
55	MG	BA	3013	1/1	0.96	0.17	0,0,0,0	0
55	MG	BA	3110	1/1	0.96	0.11	26,26,26,26	0
55	MG	AA	1637	1/1	0.96	0.14	16,16,16,16	0
55	MG	DA	3117	1/1	0.96	0.12	55,55,55,55	0
55	MG	BA	3143	1/1	0.96	0.32	3,3,3,3	0
55	MG	DA	3075	1/1	0.96	0.26	61,61,61,61	0
55	MG	DA	3076	1/1	0.96	0.13	59,59,59,59	0
55	MG	CA	1613	1/1	0.96	0.14	17,17,17,17	0
55	MG	BA	3005	1/1	0.96	0.17	43,43,43,43	0
55	MG	BA	3094	1/1	0.96	0.12	20,20,20,20	0
55	MG	BA	3146	1/1	0.96	0.21	22,22,22,22	0
55	MG	BA	3067	1/1	0.96	0.20	0,0,0,0	0
55	MG	BA	3127	1/1	0.97	0.10	2,2,2,2	0
55	MG	BA	3162	1/1	0.97	0.14	23,23,23,23	0
55	MG	BA	3062	1/1	0.97	0.11	4,4,4,4	0
55	MG	BB	204	1/1	0.97	0.36	0,0,0,0	0
55	MG	BA	3130	1/1	0.97	0.17	2,2,2,2	0
55	MG	DA	3020	1/1	0.97	0.19	44,44,44,44	0
55	MG	BA	3131	1/1	0.97	0.32	37,37,37,37	0
55	MG	BA	3132	1/1	0.97	0.20	32,32,32,32	0
55	MG	DA	3140	1/1	0.97	0.23	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3043	1/1	0.97	0.06	23,23,23,23	0
55	MG	BA	3134	1/1	0.97	0.09	3,3,3,3	0
55	MG	BA	3009	1/1	0.97	0.08	2,2,2,2	0
55	MG	CA	1643	1/1	0.97	0.37	41,41,41,41	0
55	MG	AA	1649	1/1	0.97	0.12	28,28,28,28	0
55	MG	AA	1603	1/1	0.97	0.21	57,57,57,57	0
55	MG	AA	1641	1/1	0.97	0.12	7,7,7,7	0
55	MG	AA	1611	1/1	0.97	0.07	21,21,21,21	0
55	MG	DA	3109	1/1	0.97	0.19	30,30,30,30	0
55	MG	BA	3142	1/1	0.97	0.21	0,0,0,0	0
55	MG	BA	3030	1/1	0.97	0.16	3,3,3,3	0
55	MG	AA	1653	1/1	0.97	0.18	34,34,34,34	0
55	MG	BA	3116	1/1	0.97	0.19	30,30,30,30	0
55	MG	BA	3072	1/1	0.97	0.19	2,2,2,2	0
55	MG	BA	3147	1/1	0.97	0.14	11,11,11,11	0
55	MG	CA	1617	1/1	0.97	0.09	41,41,41,41	0
55	MG	BA	3148	1/1	0.97	0.14	13,13,13,13	0
55	MG	BA	3149	1/1	0.97	0.23	0,0,0,0	0
55	MG	AA	1664	1/1	0.97	0.13	51,51,51,51	0
55	MG	BA	3018	1/1	0.97	0.08	10,10,10,10	0
55	MG	AA	1654	1/1	0.97	0.14	41,41,41,41	0
55	MG	DA	3162	1/1	0.97	0.11	48,48,48,48	0
55	MG	BA	3153	1/1	0.97	0.16	2,2,2,2	0
55	MG	AA	1632	1/1	0.97	0.13	40,40,40,40	0
55	MG	BA	3189	1/1	0.97	0.20	0,0,0,0	0
55	MG	AA	1628	1/1	0.97	0.04	39,39,39,39	0
55	MG	BA	3006	1/1	0.97	0.07	13,13,13,13	0
55	MG	BA	3058	1/1	0.97	0.07	15,15,15,15	0
55	MG	BA	3158	1/1	0.97	0.12	15,15,15,15	0
55	MG	AA	1622	1/1	0.97	0.22	21,21,21,21	0
55	MG	BA	3042	1/1	0.97	0.14	1,1,1,1	0
56	ZN	D4	101	1/1	0.97	0.07	74,74,74,74	0
55	MG	CA	1625	1/1	0.98	0.17	18,18,18,18	0
55	MG	BA	3106	1/1	0.98	0.24	0,0,0,0	0
55	MG	BA	3081	1/1	0.98	0.10	0,0,0,0	0
55	MG	BA	3021	1/1	0.98	0.15	2,2,2,2	0
55	MG	BA	3139	1/1	0.98	0.27	0,0,0,0	0
55	MG	CA	1649	1/1	0.98	0.22	24,24,24,24	0
55	MG	BA	3060	1/1	0.98	0.13	29,29,29,29	0
55	MG	BA	3051	1/1	0.98	0.14	4,4,4,4	0
55	MG	DA	3131	1/1	0.98	0.13	50,50,50,50	0
55	MG	BA	3035	1/1	0.98	0.07	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3017	1/1	0.98	0.18	39,39,39,39	0
55	MG	BA	3008	1/1	0.98	0.13	0,0,0,0	0
55	MG	DA	3086	1/1	0.98	0.12	61,61,61,61	0
55	MG	BA	3128	1/1	0.98	0.19	3,3,3,3	0
55	MG	BA	3114	1/1	0.98	0.09	28,28,28,28	0
55	MG	BA	3037	1/1	0.98	0.19	0,0,0,0	0
55	MG	BA	3164	1/1	0.98	0.30	6,6,6,6	0
55	MG	BA	3017	1/1	0.98	0.16	0,0,0,0	0
55	MG	AA	1612	1/1	0.98	0.13	38,38,38,38	0
55	MG	BA	3078	1/1	0.98	0.04	38,38,38,38	0
55	MG	BA	3010	1/1	0.98	0.09	1,1,1,1	0
55	MG	AA	1621	1/1	0.98	0.09	37,37,37,37	0
55	MG	BA	3187	1/1	0.98	0.21	3,3,3,3	0
55	MG	DA	3050	1/1	0.98	0.12	52,52,52,52	0
55	MG	DA	3074	1/1	0.98	0.08	47,47,47,47	0
55	MG	AA	1642	1/1	0.99	0.07	25,25,25,25	0
55	MG	BA	3107	1/1	0.99	0.14	3,3,3,3	0
55	MG	BA	3086	1/1	0.99	0.20	0,0,0,0	0
55	MG	BA	3141	1/1	0.99	0.40	0,0,0,0	0
55	MG	DA	3067	1/1	0.99	0.18	43,43,43,43	0
55	MG	AA	1656	1/1	0.99	0.07	32,32,32,32	0
55	MG	BA	3063	1/1	0.99	0.13	2,2,2,2	0
55	MG	BA	3033	1/1	0.99	0.20	0,0,0,0	0
55	MG	AA	1647	1/1	0.99	0.17	44,44,44,44	0
55	MG	AA	1645	1/1	0.99	0.09	42,42,42,42	0
56	ZN	B4	101	1/1	1.00	0.08	76,76,76,76	0

6.5 Other polymers (i)

There are no such residues in this entry.