



wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 14, 2023 – 01:04 PM EDT

PDB ID : 4V7T
Title : Crystal structure of the E. coli ribosome bound to chloramphenicol.
Authors : Dunkle, J.A.; Xiong, L.; Mankin, A.S.; Cate, J.H.D.
Deposited on : 2010-08-14
Resolution : 3.19 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.35.1
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35.1

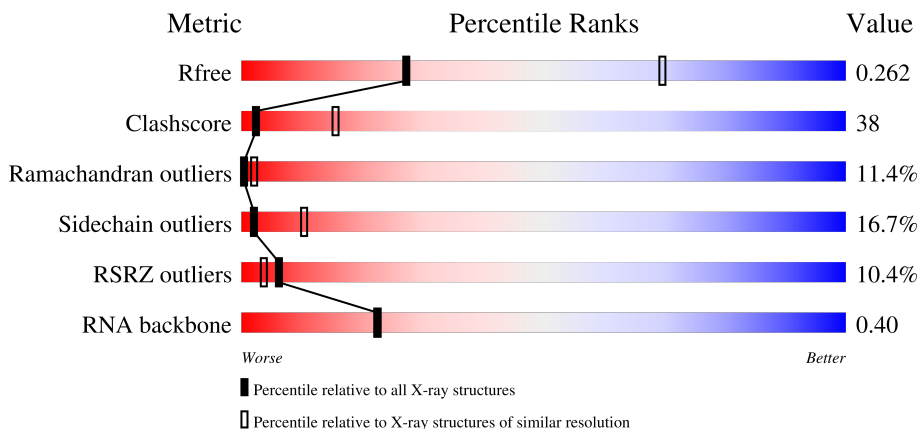
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.19 Å.

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



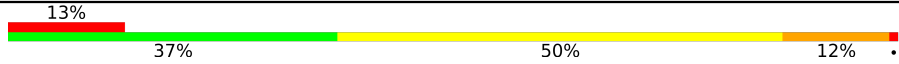
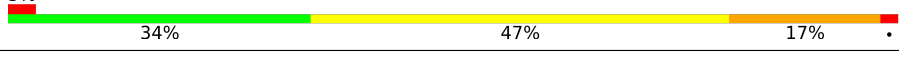

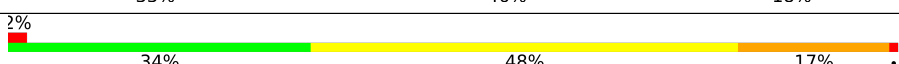
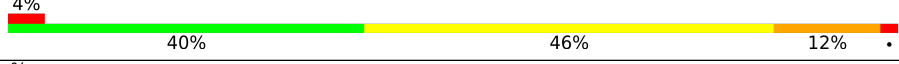

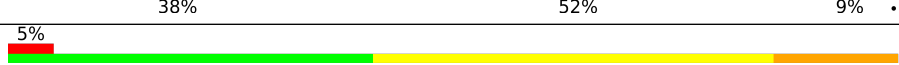
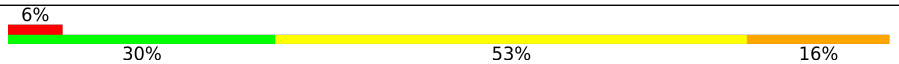
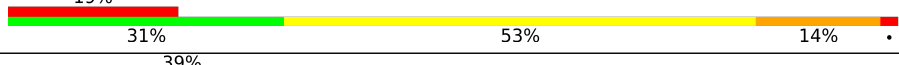

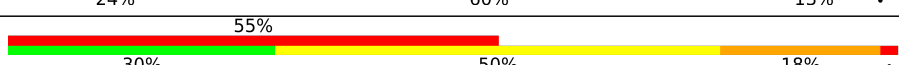

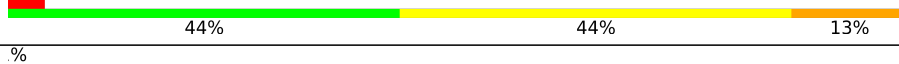
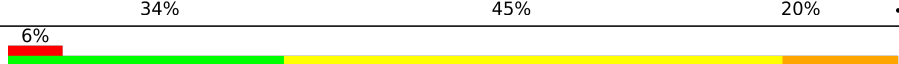
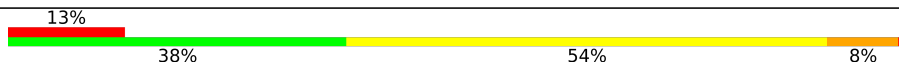


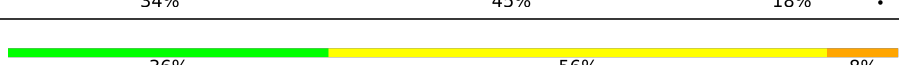

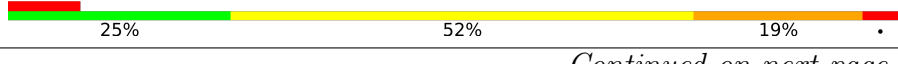



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1133 (3.20-3.20)
Clashscore	141614	1253 (3.20-3.20)
Ramachandran outliers	138981	1234 (3.20-3.20)
Sidechain outliers	138945	1233 (3.20-3.20)
RSRZ outliers	127900	1095 (3.20-3.20)
RNA backbone	3102	1010 (3.50-2.90)

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

Mol	Chain	Length	Quality of chain
1	AA	1533	 6% 24% 44% 16% 17%
2	AB	218	 32% 25% 54% 18%
2	CB	218	 19% 30% 54% 14%
3	AC	206	 6% 36% 52% 10%

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Mol	Chain	Length	Quality of chain
3	CC	206	
4	AD	205	
4	CD	205	
5	AE	150	
5	CE	150	
6	AF	100	
6	CF	100	
7	AG	151	
8	AH	129	
8	CH	129	
9	AI	127	
9	CI	127	
10	AJ	98	
10	CJ	98	
11	AK	117	
11	CK	117	
12	AL	123	
12	CL	123	
13	AM	114	
14	AN	100	
14	CN	100	
15	AO	88	
15	CO	88	
16	AP	82	
17	AQ	80	

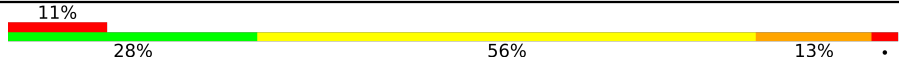
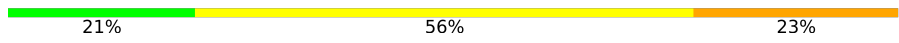
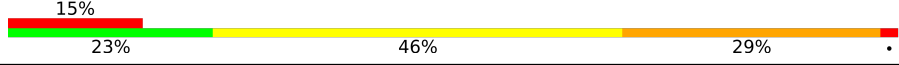
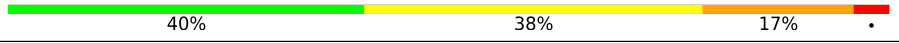
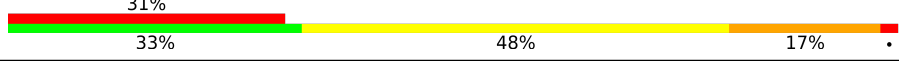
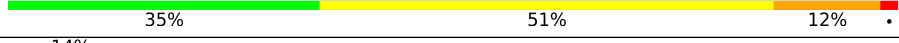
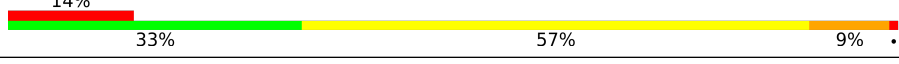
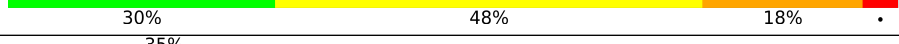
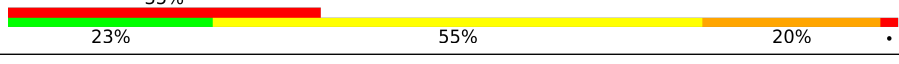

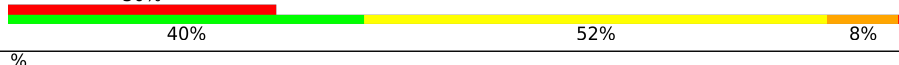
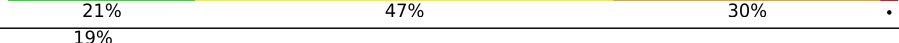
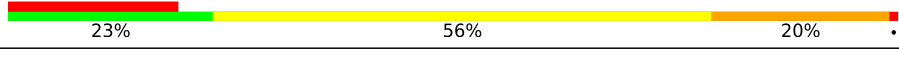
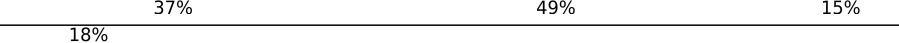
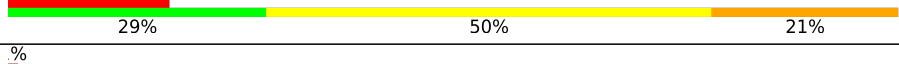



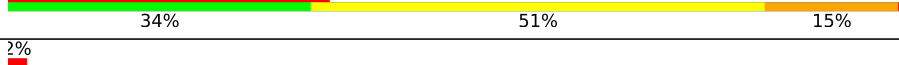
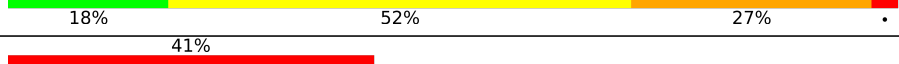
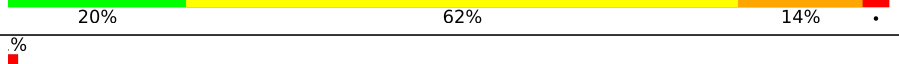

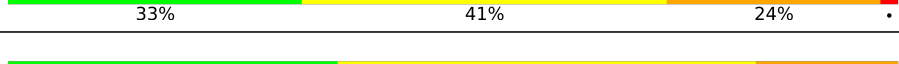
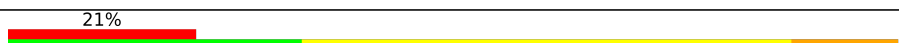

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Mol	Chain	Length	Quality of chain
17	CQ	80	
18	AR	55	
18	CR	55	
19	AS	79	
19	CS	79	
20	AT	85	
20	CT	85	
21	AU	51	
21	CU	51	
22	BA	2903	
23	BB	118	
24	BC	271	
24	DC	271	
25	BD	209	
25	DD	209	
26	BE	201	
26	DE	201	
27	BF	177	
28	BG	176	
28	DG	176	
29	BH	149	
29	DH	149	
30	BI	141	
30	DI	141	
31	BJ	142	

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Mol	Chain	Length	Quality of chain
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	
40	DS	110	
41	BT	93	
41	DT	93	
42	BU	102	
42	DU	102	
43	BV	94	
43	DV	94	

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Mol	Chain	Length	Quality of chain
44	BW	79	
44	DW	79	
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	
53	CA	1530	
54	CG	150	
55	CM	113	
56	CP	80	
57	DA	2904	
58	DB	117	
59	DF	178	

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
60	MG	DA	3007	-	-	-	X
60	MG	DA	3019	-	-	-	X
60	MG	DA	3025	-	-	-	X
60	MG	DA	3061	-	-	-	X
60	MG	DA	3062	-	-	-	X
60	MG	DA	3063	-	-	-	X
60	MG	DA	3073	-	-	-	X
60	MG	DA	3075	-	-	-	X
60	MG	DA	3077	-	-	-	X
60	MG	DA	3107	-	-	-	X
60	MG	DA	3124	-	-	-	X
60	MG	DA	3127	-	-	-	X
60	MG	DA	3130	-	-	-	X
60	MG	DJ	201	-	-	-	X

2 Entry composition [i](#)

There are 63 unique types of molecules in this entry. The entry contains 284499 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	AA	1533	32895	14671	6036	10655	1533	0	0	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- 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			

- 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	95	Total	C	N	O	S	0	0	0
			769	480	159	127	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
			714	439	144	130	1			
15	CO	88	Total	C	N	O	S	0	0	0
			714	439	144	130	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			

- 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	2854	Total	C	N	O	P	0	0	0
			61274	27334	11279	19807	2854			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
23	BB	118	2529	1126	464	821	118	0	0	0

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
29	BH	149	Total	C	N	O	S	0	0	0
			1111	699	197	214	1			
29	DH	149	Total	C	N	O	S	0	0	0
			1111	699	197	214	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
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
			Total	C	N	O	S			
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
			Total	C	N	O	S			
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
			Total	C	N	O	S			
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			

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
44	BW	79	596	367	120	108	1	0	0	0
44	DW	79	596	367	120	108	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	C	N	O	S	0	0	0
			625	388	129	106	2			
45	DX	77	Total	C	N	O	S	0	0	0
			625	388	129	106	2			

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

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

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

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

- 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 RNA chain called 16S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	CA	1530	Total	C	N	O	P	0	0	0
			32831	14642	6024	10635	1530			

- Molecule 54 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	CG	150	Total	C	N	O	S	0	0	0
			1175	730	226	215	4			

- Molecule 55 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	CM	113	Total	C	N	O	S	0	0	0
			877	541	177	156	3			

- Molecule 56 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
56	CP	80	639	400	126	112	1	0	0	0

- Molecule 57 is a RNA chain called 23S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
57	DA	2841	60995	27210	11229	19715	2841	0	0	0

- Molecule 58 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
58	DB	117	2507	1116	459	815	117	0	0	0

- Molecule 59 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
59	DF	178	1420	905	251	258	6	0	0	0

- Molecule 60 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

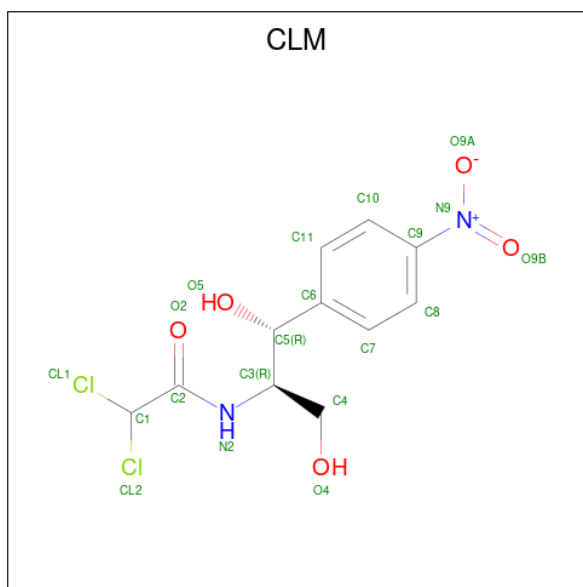
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	AA	42	Total	Mg	0	0
			42	42		
60	AN	1	Total	Mg	0	0
			1	1		
60	BA	135	Total	Mg	0	0
			135	135		
60	BB	4	Total	Mg	0	0
			4	4		
60	BL	1	Total	Mg	0	0
			1	1		
60	CA	42	Total	Mg	0	0
			42	42		
60	DA	133	Total	Mg	0	0
			133	133		
60	DB	1	Total	Mg	0	0
			1	1		
60	DC	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	DE	1	Total Mg 1 1	0	0
60	DJ	1	Total Mg 1 1	0	0

- Molecule 61 is CHLORAMPHENICOL (three-letter code: CLM) (formula: $C_{11}H_{12}Cl_2N_2O_5$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	BA	1	Total C Cl N O 20 11 2 2 5	0	0

- Molecule 62 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 63 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
63	AA	197	Total O 197 197	0	0
63	AL	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
63	AN	6	Total O 6 6	0	0
63	AT	2	Total O 2 2	0	0
63	AU	1	Total O 1 1	0	0
63	BA	608	Total O 608 608	0	0
63	BB	19	Total O 19 19	0	0
63	BC	8	Total O 8 8	0	0
63	BD	2	Total O 2 2	0	0
63	BE	1	Total O 1 1	0	0
63	BL	4	Total O 4 4	0	0
63	BN	2	Total O 2 2	0	0
63	BQ	1	Total O 1 1	0	0
63	BT	2	Total O 2 2	0	0
63	BV	1	Total O 1 1	0	0
63	B2	2	Total O 2 2	0	0
63	B3	2	Total O 2 2	0	0
63	B4	2	Total O 2 2	0	0
63	CA	195	Total O 195 195	0	0
63	CE	3	Total O 3 3	0	0
63	CI	1	Total O 1 1	0	0
63	CL	1	Total O 1 1	0	0
63	CN	3	Total O 3 3	0	0

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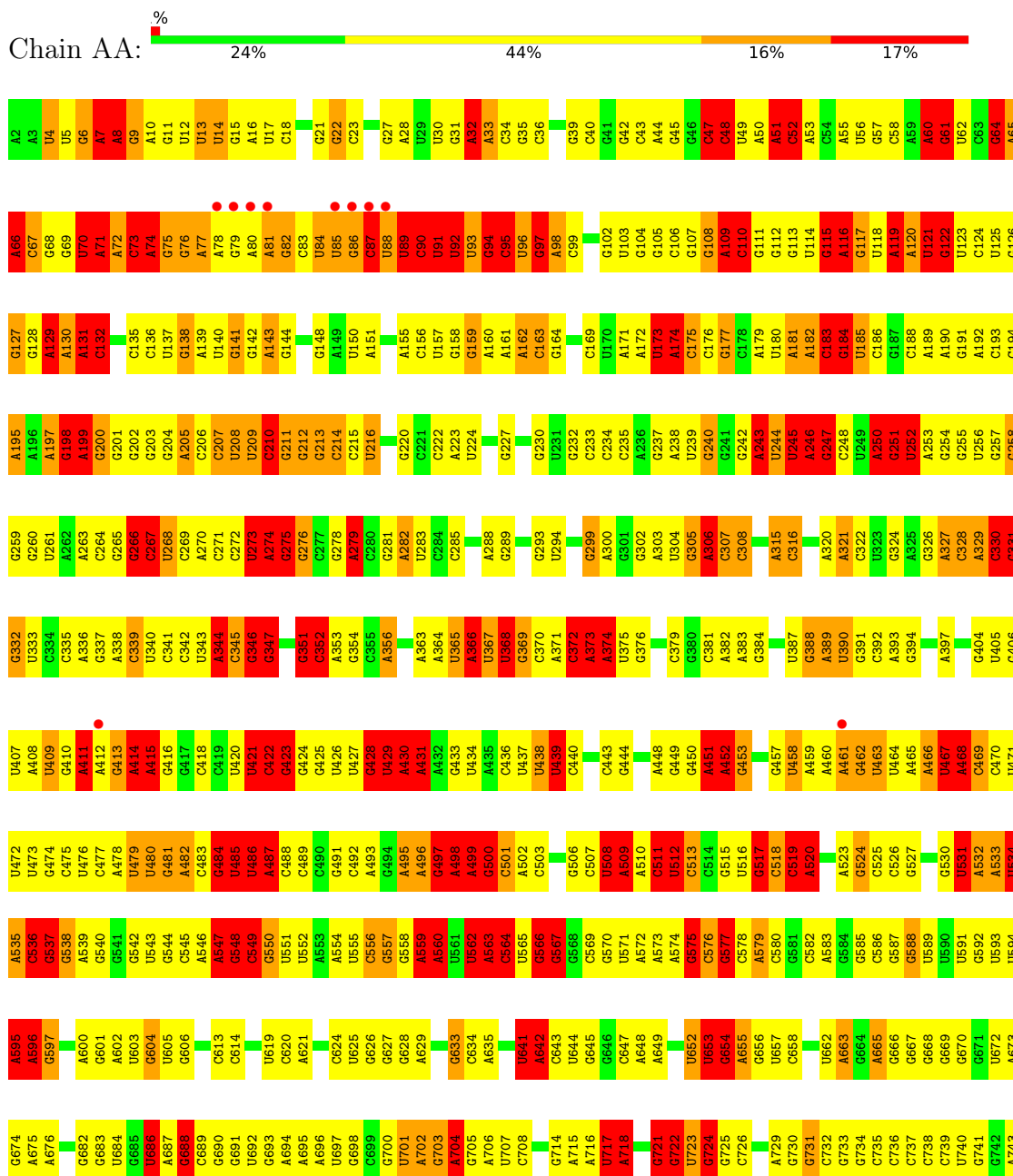
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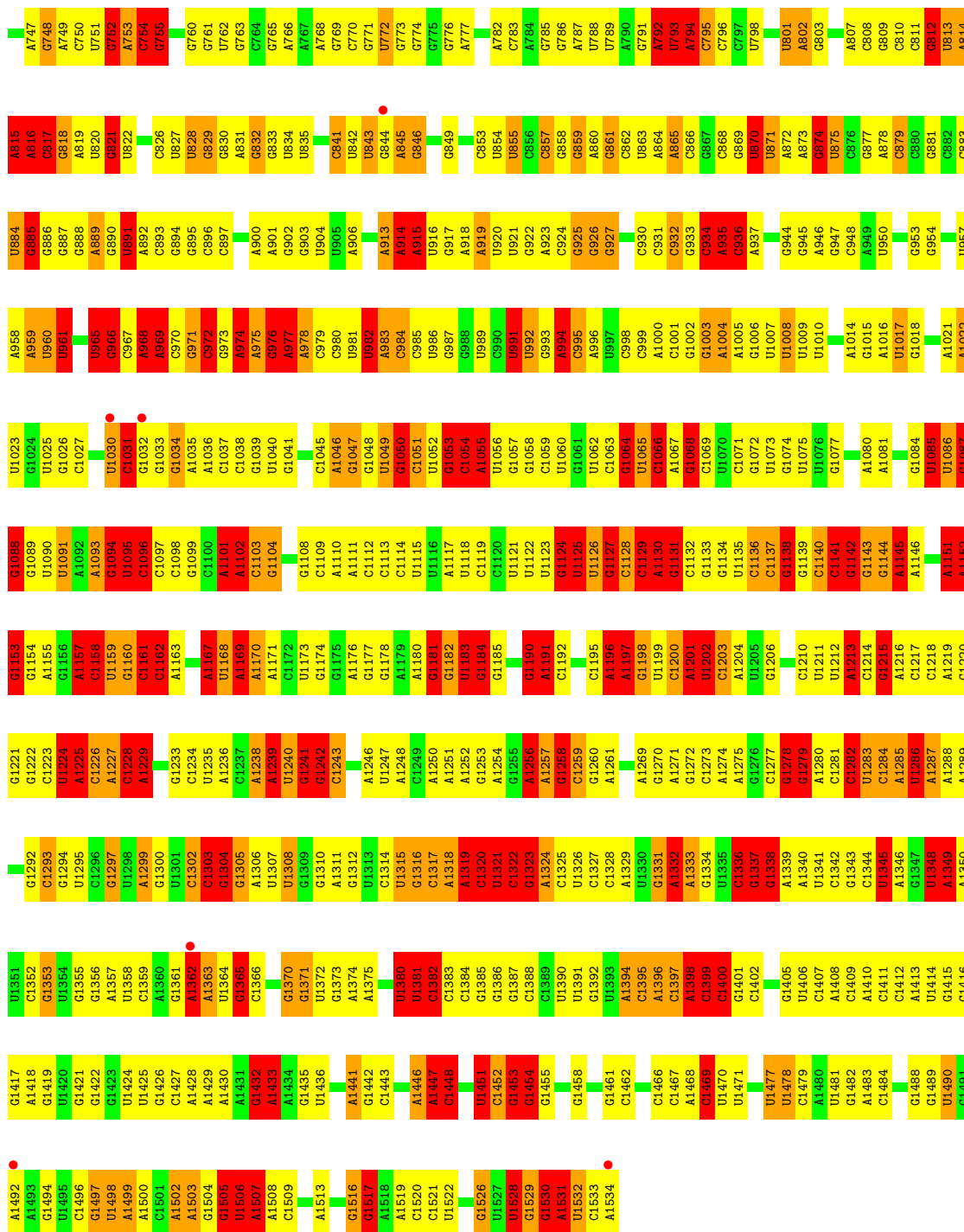
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63	CU	2	Total O 2 2	0	0
63	DA	603	Total O 603 603	0	0
63	DB	4	Total O 4 4	0	0
63	DC	10	Total O 10 10	0	0
63	DD	1	Total O 1 1	0	0
63	DE	3	Total O 3 3	0	0
63	DJ	4	Total O 4 4	0	0
63	DL	5	Total O 5 5	0	0
63	DN	2	Total O 2 2	0	0
63	DT	2	Total O 2 2	0	0
63	DU	2	Total O 2 2	0	0
63	DV	1	Total O 1 1	0	0
63	D2	1	Total O 1 1	0	0
63	D3	1	Total O 1 1	0	0
63	D4	4	Total O 4 4	0	0

3 Residue-property plots [i](#)

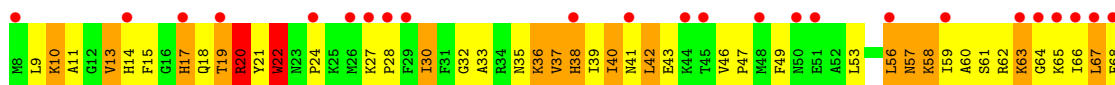
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

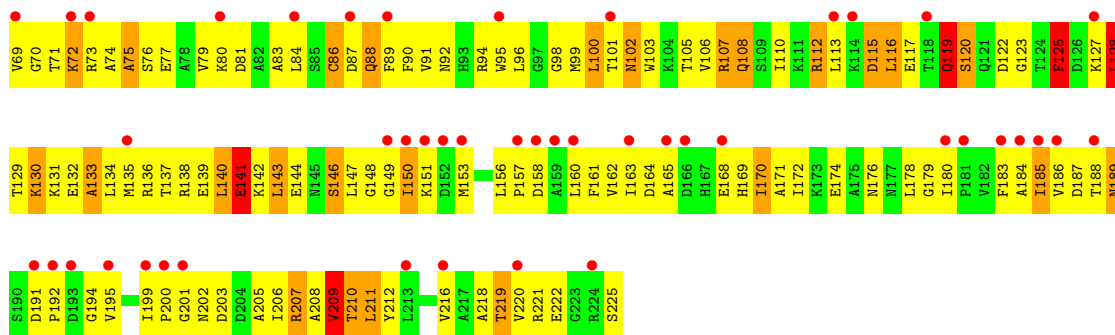
• Molecule 1: 16S rRNA



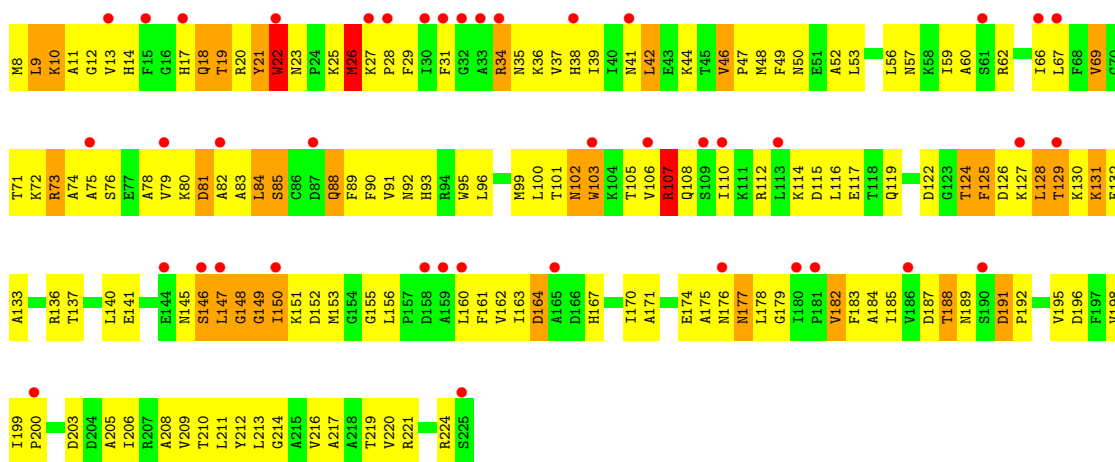


• Molecule 2: 30S ribosomal protein S2

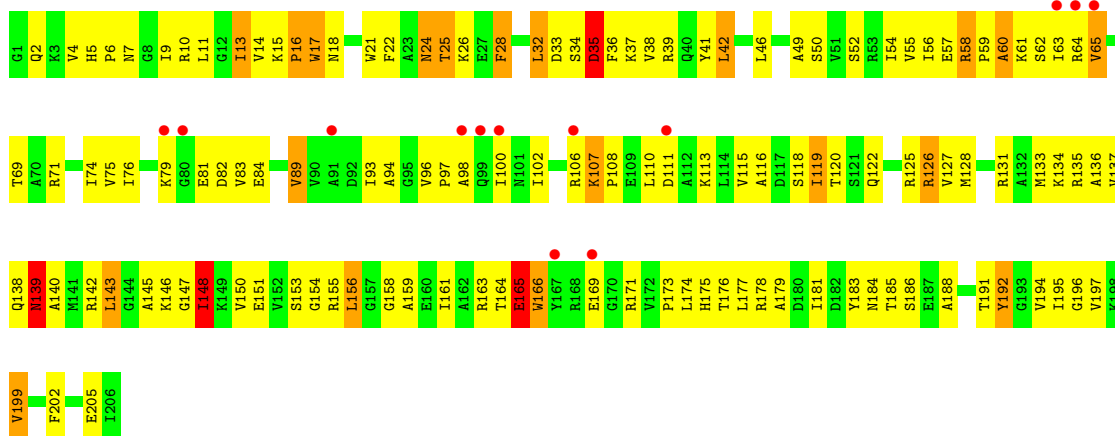




• Molecule 2: 30S ribosomal protein S2

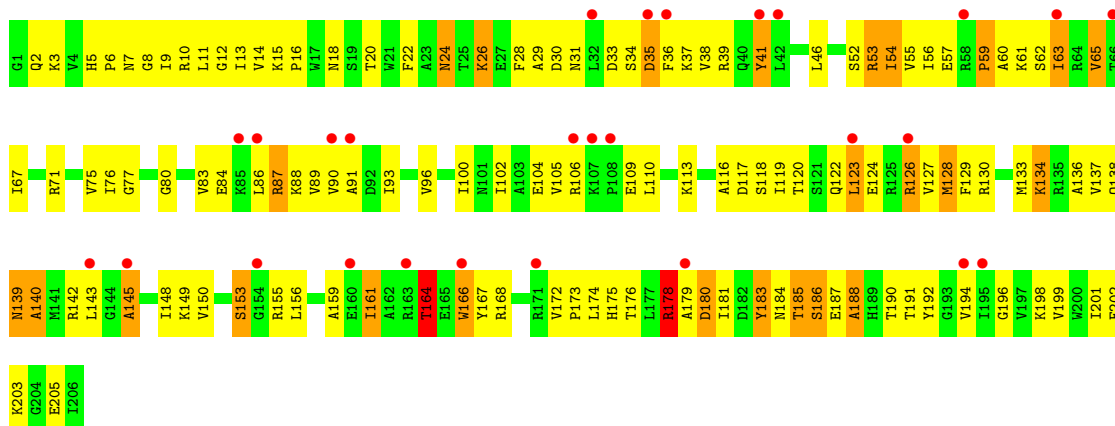


• Molecule 3: 30S ribosomal protein S3

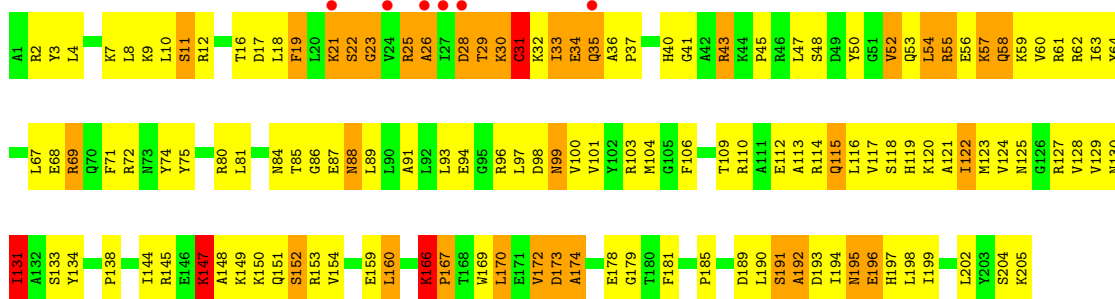


• Molecule 3: 30S ribosomal protein S3

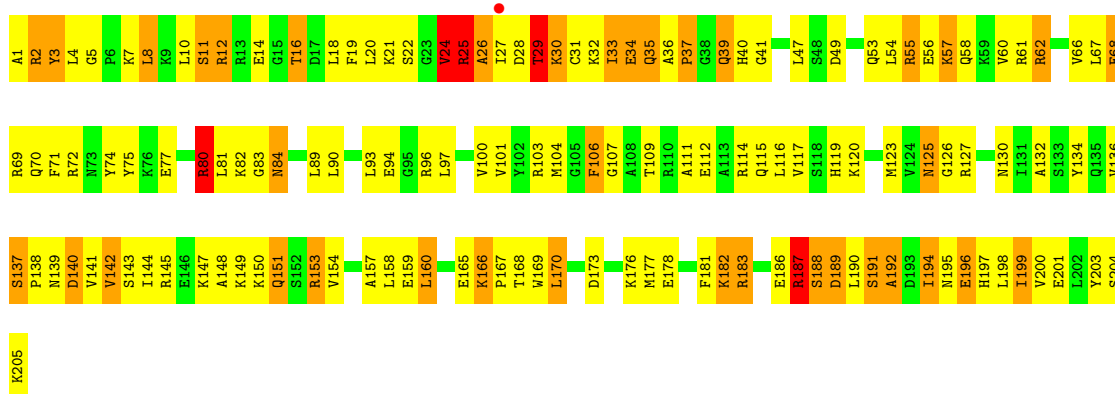




• Molecule 4: 30S ribosomal protein S4

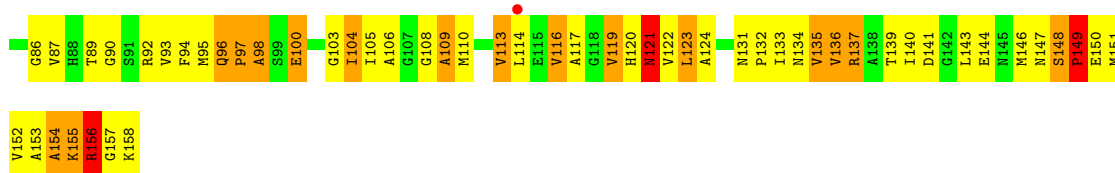


• Molecule 4: 30S ribosomal protein S4

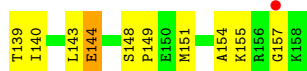
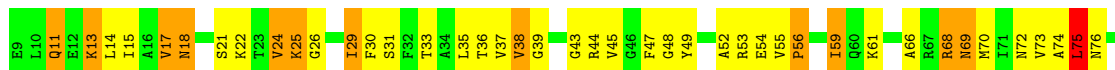


• Molecule 5: 30S ribosomal protein S5





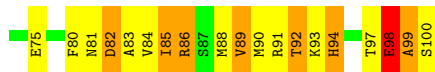
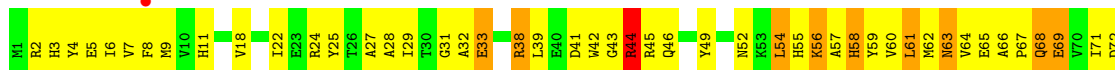
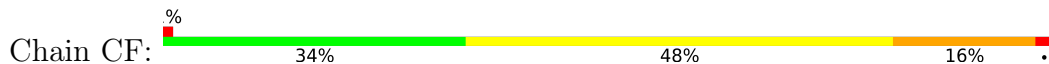
• Molecule 5: 30S ribosomal protein S5



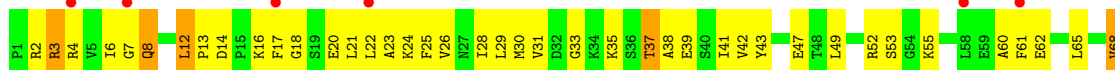
• Molecule 6: 30S ribosomal protein S6

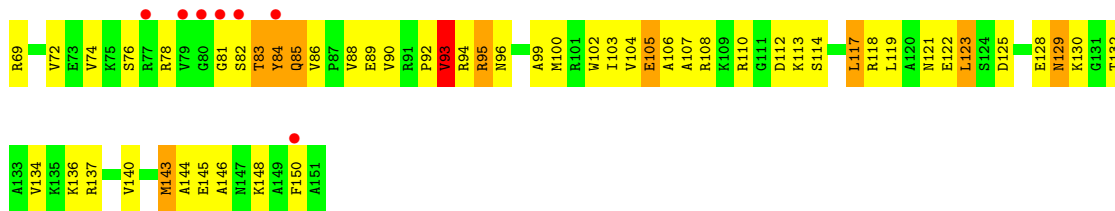


• Molecule 6: 30S ribosomal protein S6

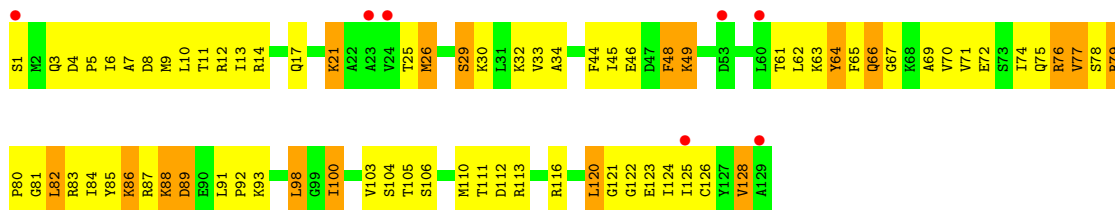
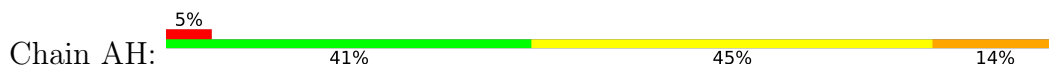


• Molecule 7: 30S ribosomal protein S7

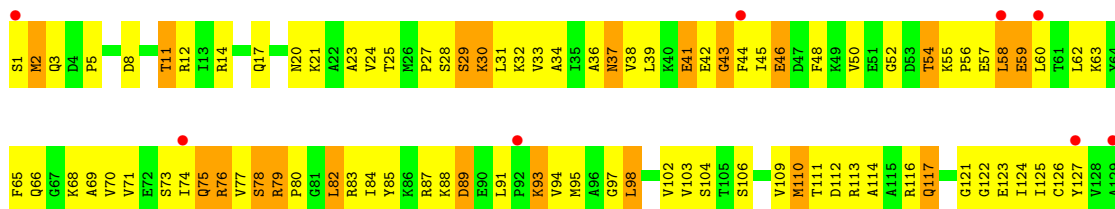




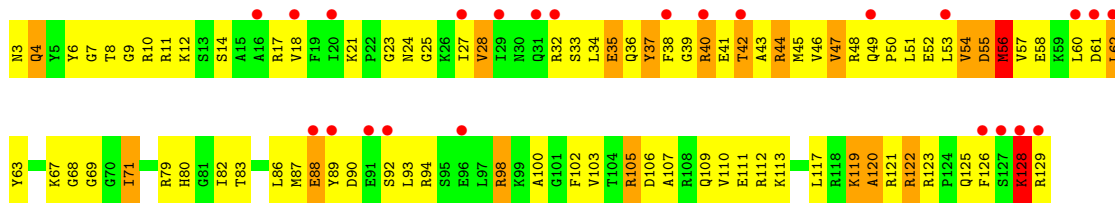
• Molecule 8: 30S ribosomal protein S8



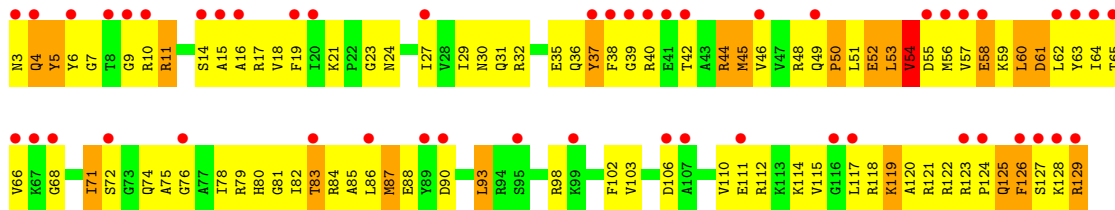
• Molecule 8: 30S ribosomal protein S8



• Molecule 9: 30S ribosomal protein S9

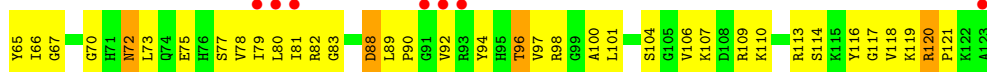


• Molecule 9: 30S ribosomal protein S9

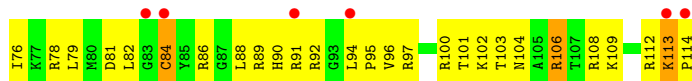
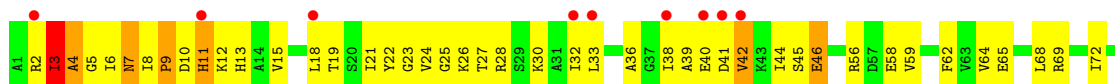
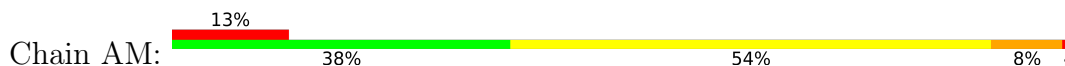




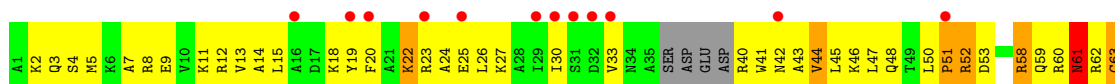
- Molecule 12: 30S ribosomal protein S12



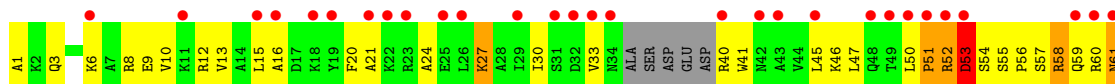
- Molecule 13: 30S ribosomal protein S13



- Molecule 14: 30S ribosomal protein S14

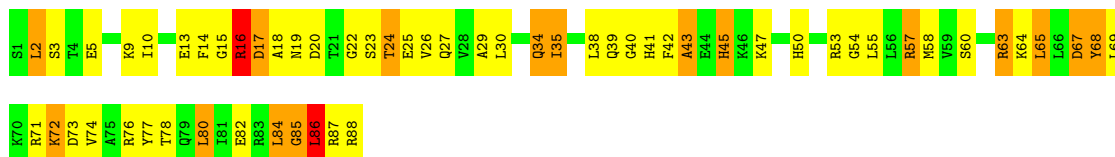


- Molecule 14: 30S ribosomal protein S14



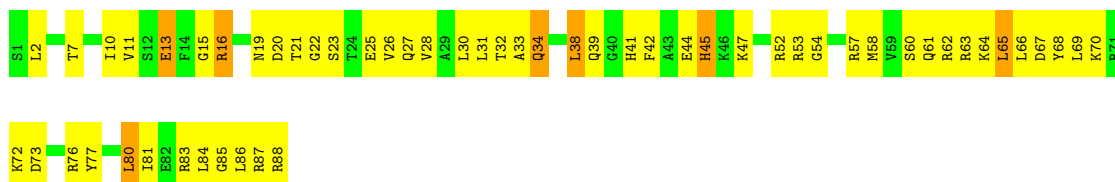
- Molecule 15: 30S ribosomal protein S15





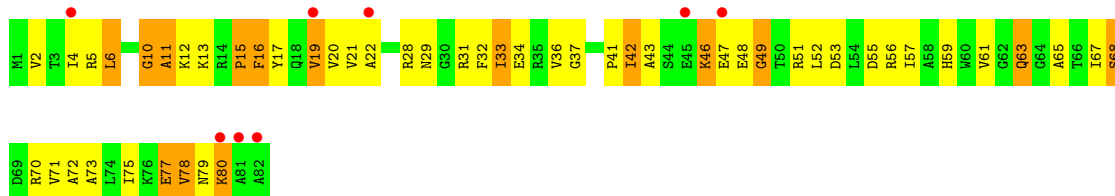
- Molecule 15: 30S ribosomal protein S15

Chain CO: 36% 56% 8%



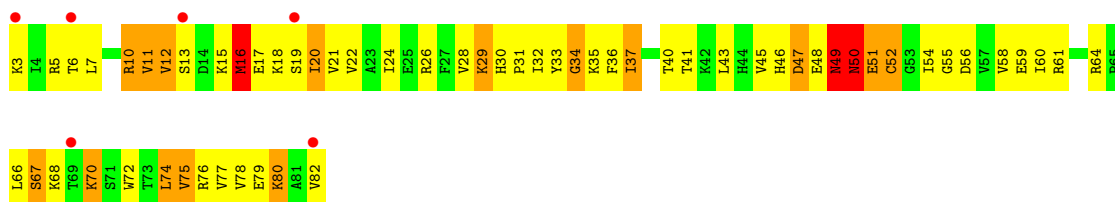
- Molecule 16: 30S ribosomal protein S16

Chain AP: 10% 38% 44% 18%



- Molecule 17: 30S ribosomal protein S17

Chain AQ: 8% 25% 52% 19%

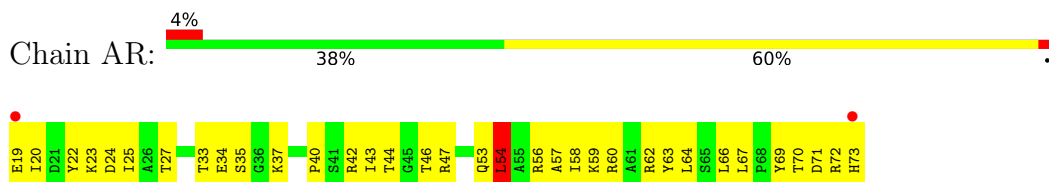


- Molecule 17: 30S ribosomal protein S17

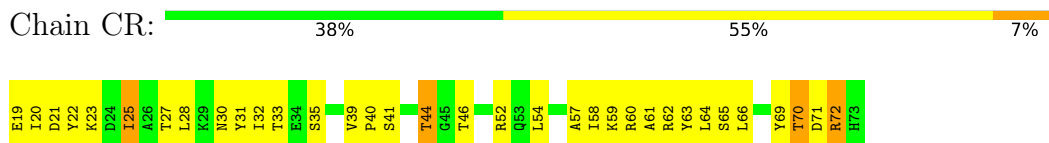
Chain CQ: 12% 31% 48% 20%



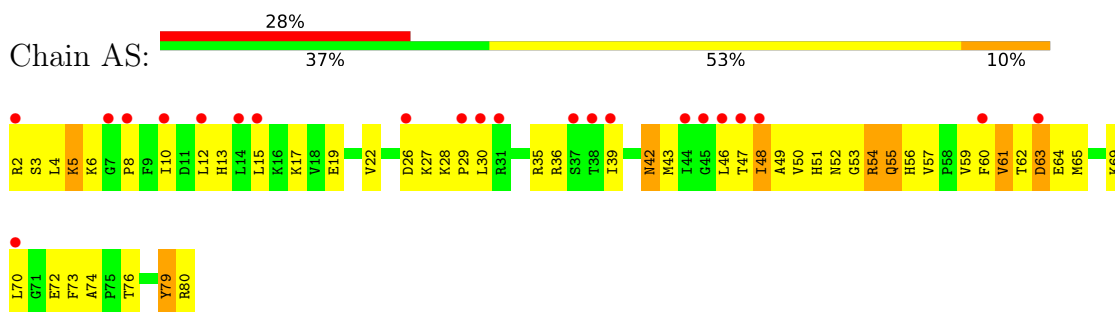
- Molecule 18: 30S ribosomal protein S18



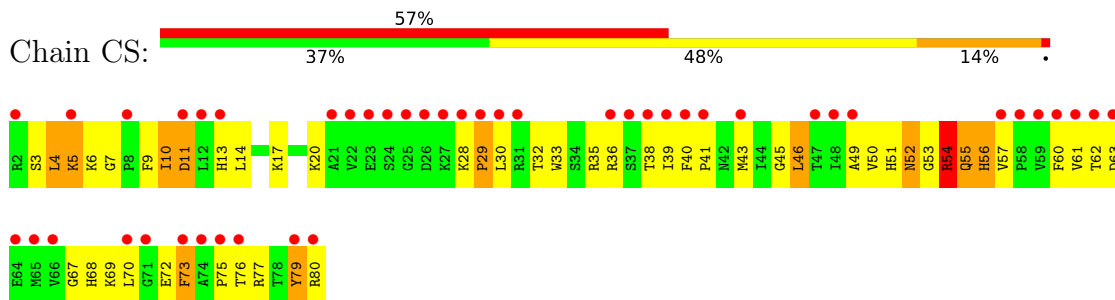
• Molecule 18: 30S ribosomal protein S18



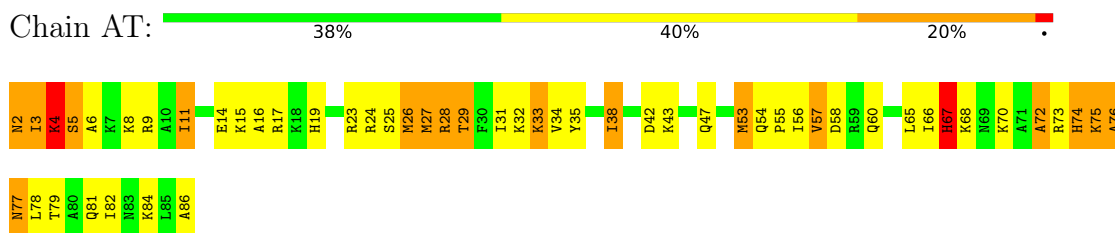
• Molecule 19: 30S ribosomal protein S19



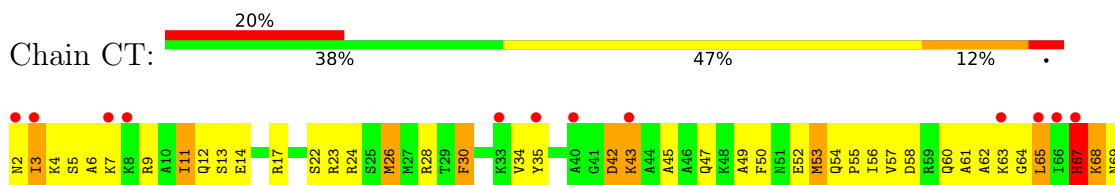
• Molecule 19: 30S ribosomal protein S19

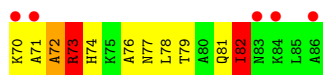


• Molecule 20: 30S ribosomal protein S20

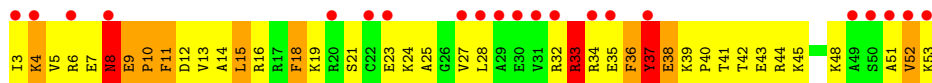
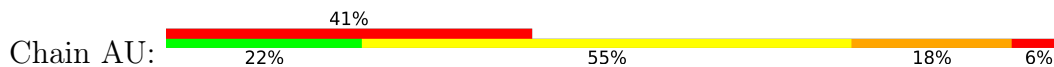


• Molecule 20: 30S ribosomal protein S20

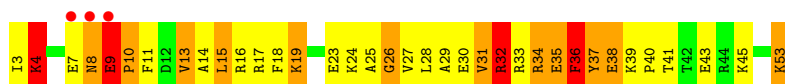
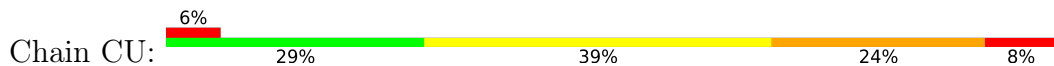




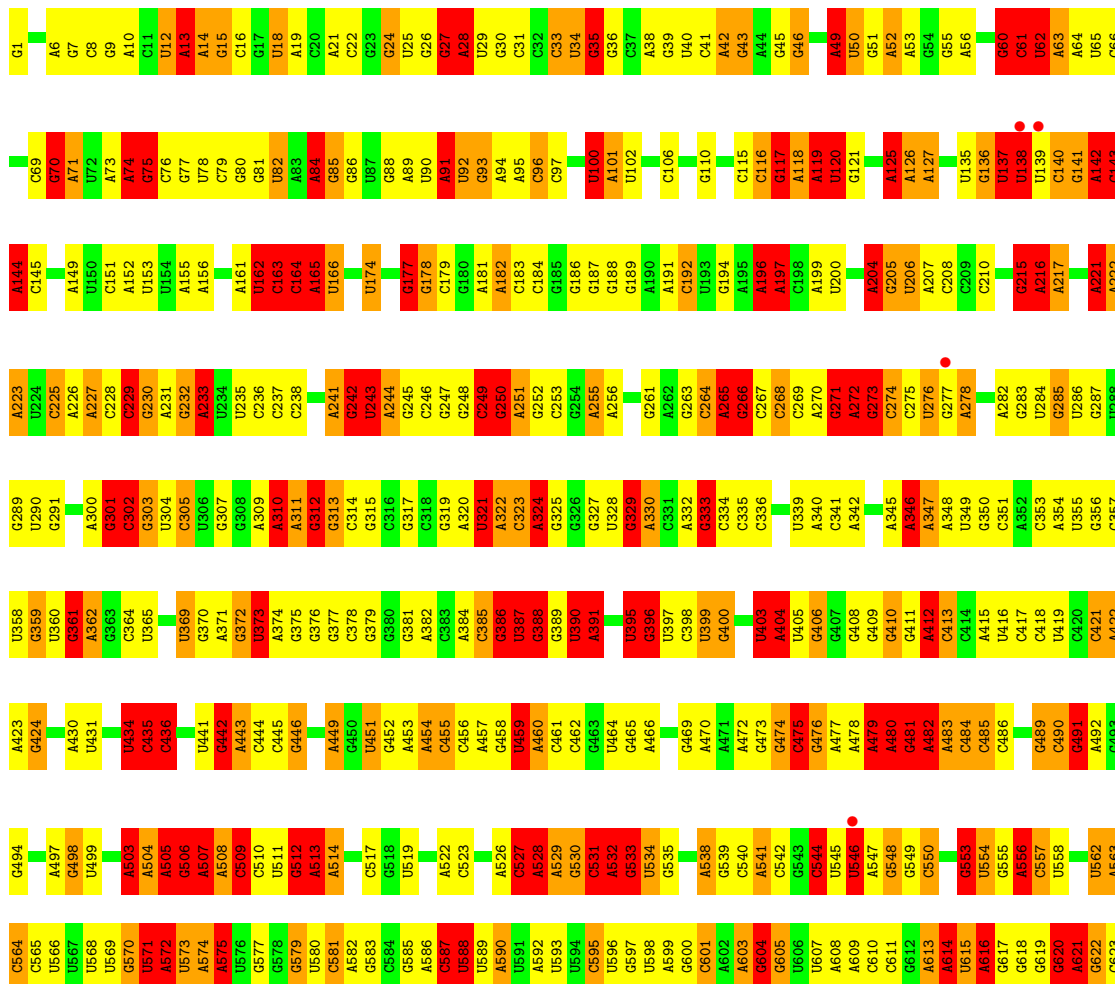
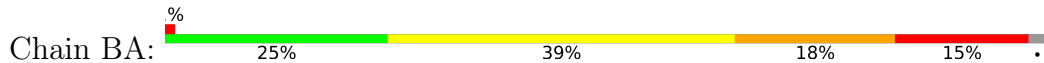
• Molecule 21: 30S ribosomal protein S21



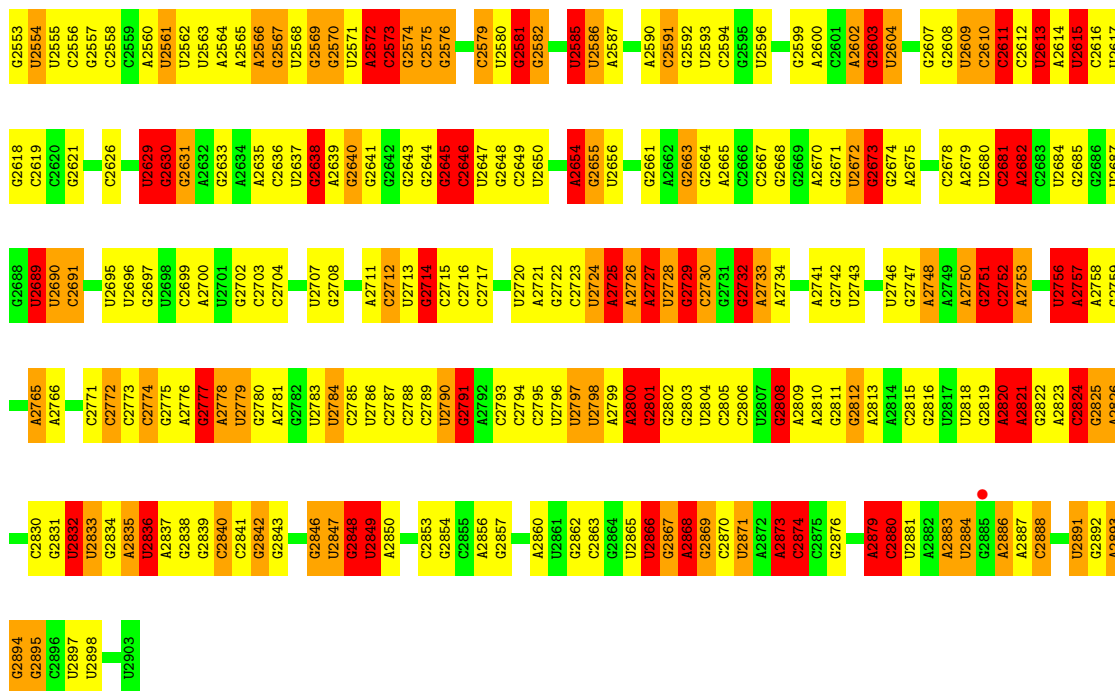
• Molecule 21: 30S ribosomal protein S21



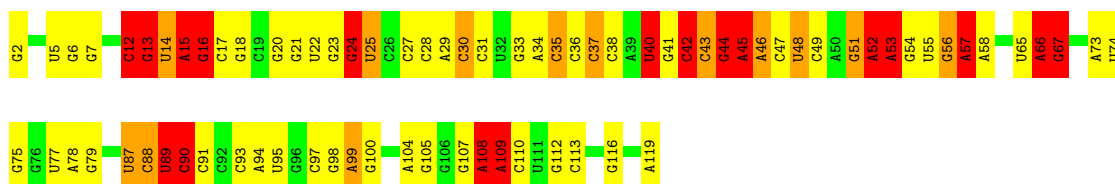
• Molecule 22: 23S rRNA



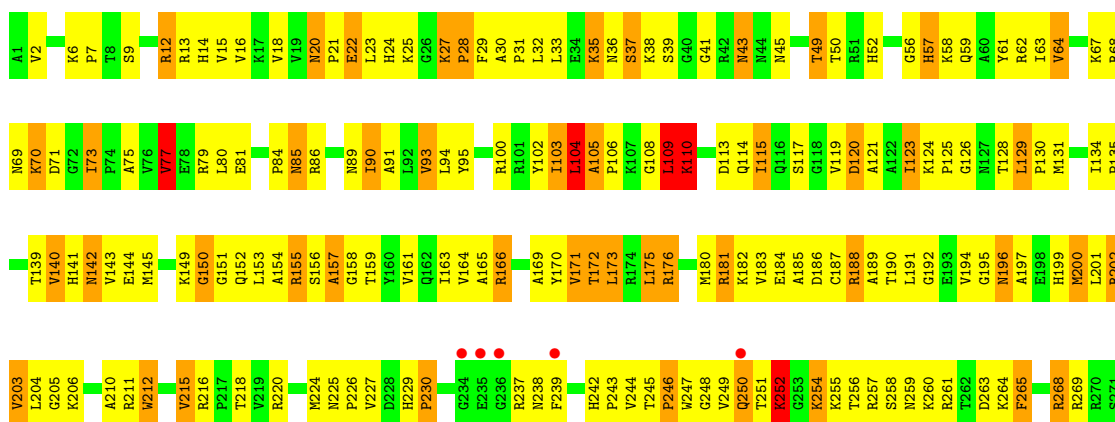
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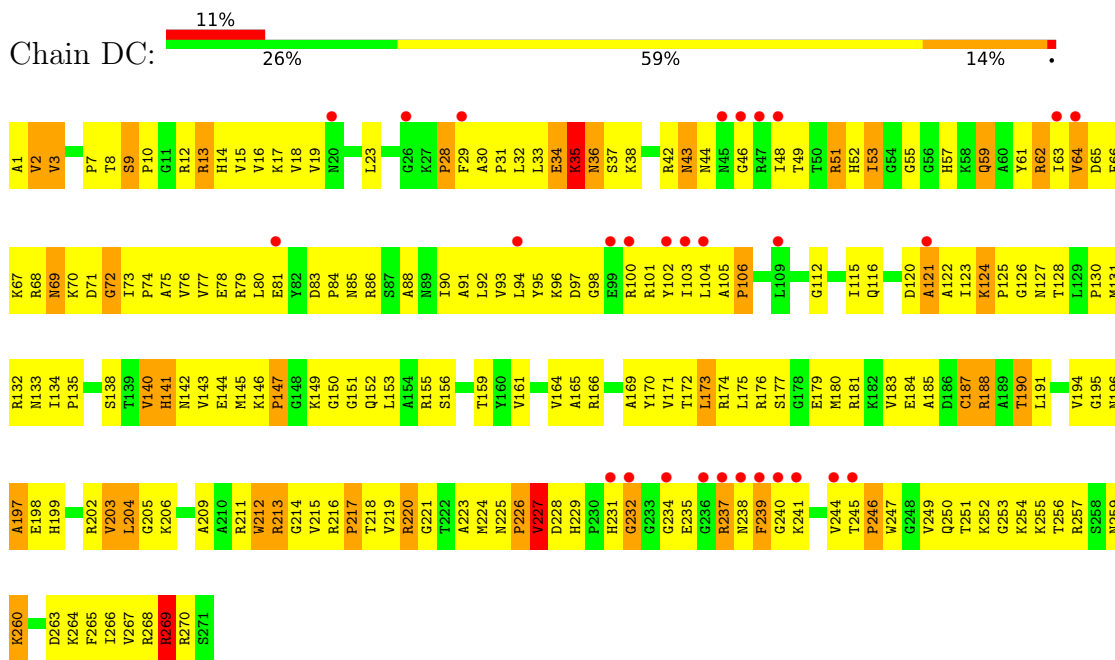
• Molecule 23: 5S rRNA



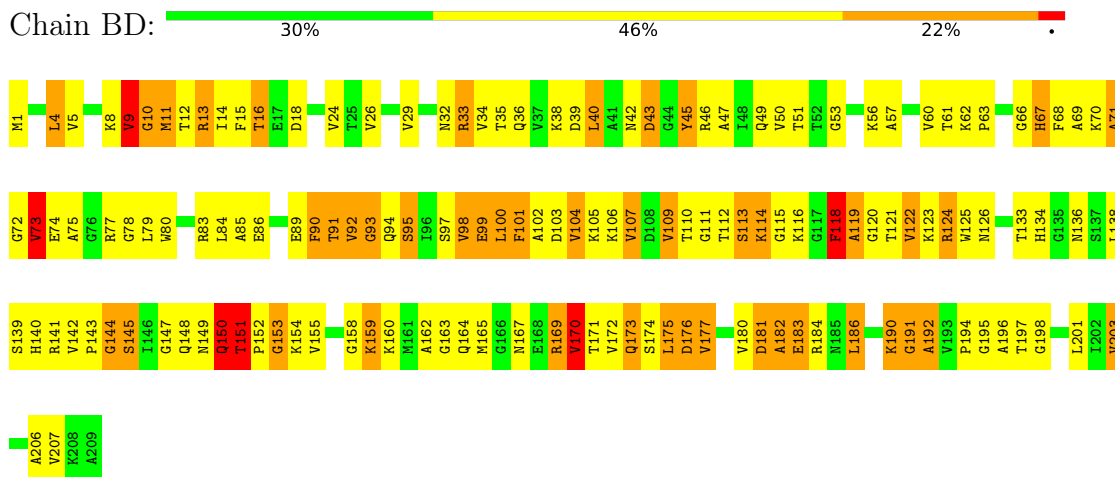
• Molecule 24: 50S ribosomal protein L2



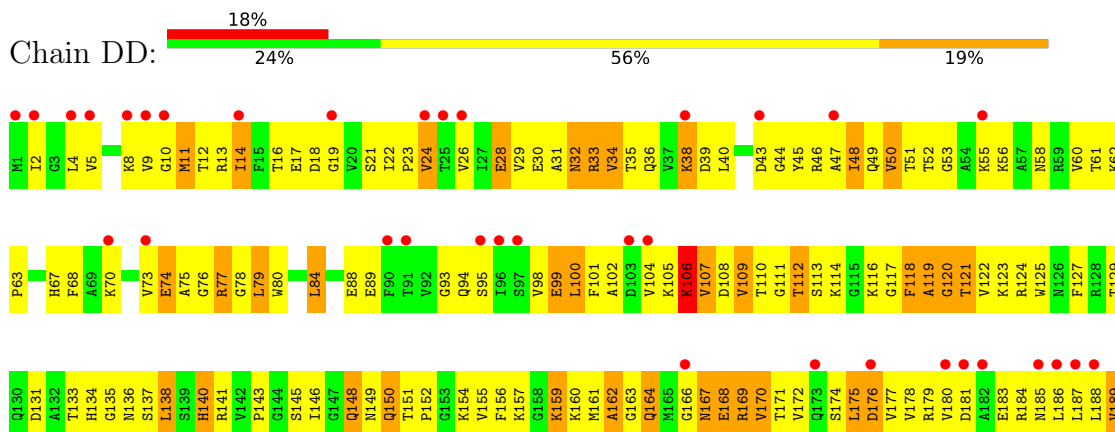
• Molecule 24: 50S ribosomal protein L2

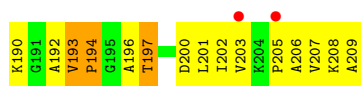


• Molecule 25: 50S ribosomal protein L3

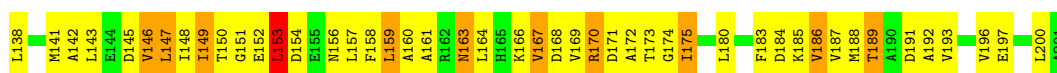


• Molecule 25: 50S ribosomal protein L3

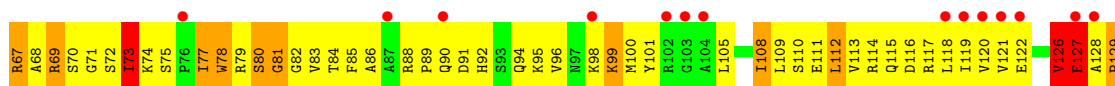
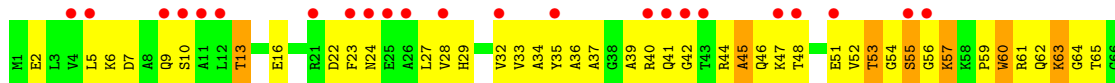




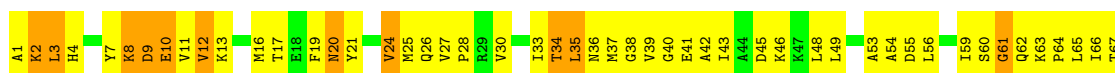
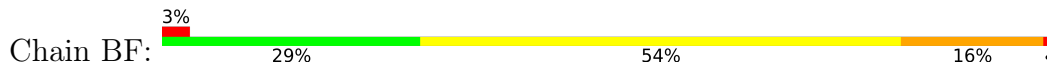
- Molecule 26: 50S ribosomal protein L4



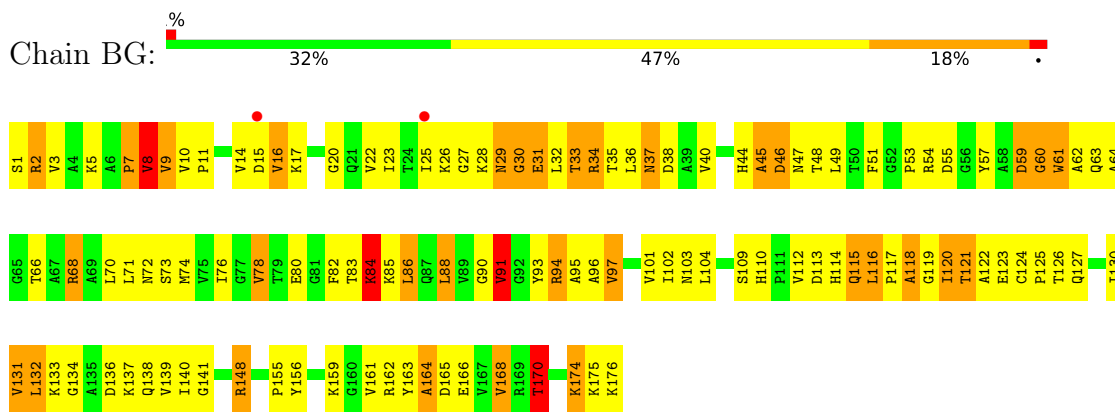
- Molecule 26: 50S ribosomal protein L4



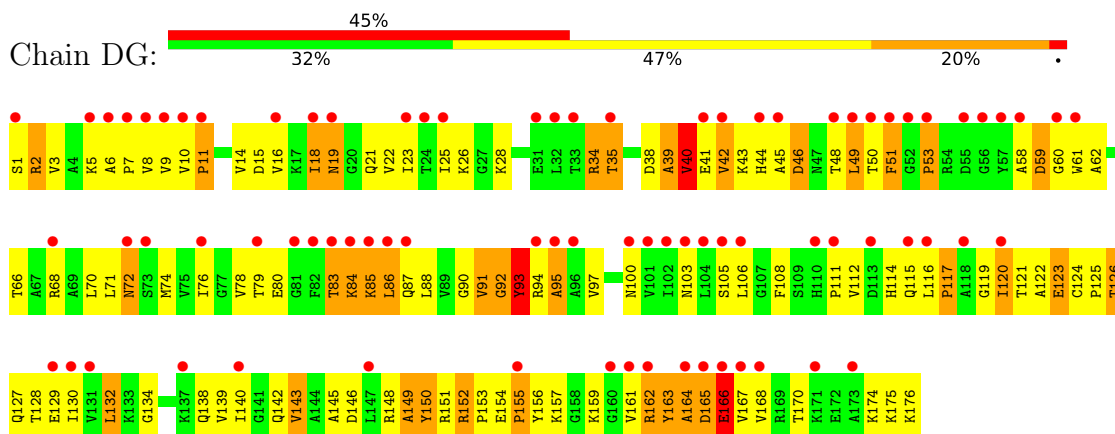
- Molecule 27: 50S ribosomal protein L5



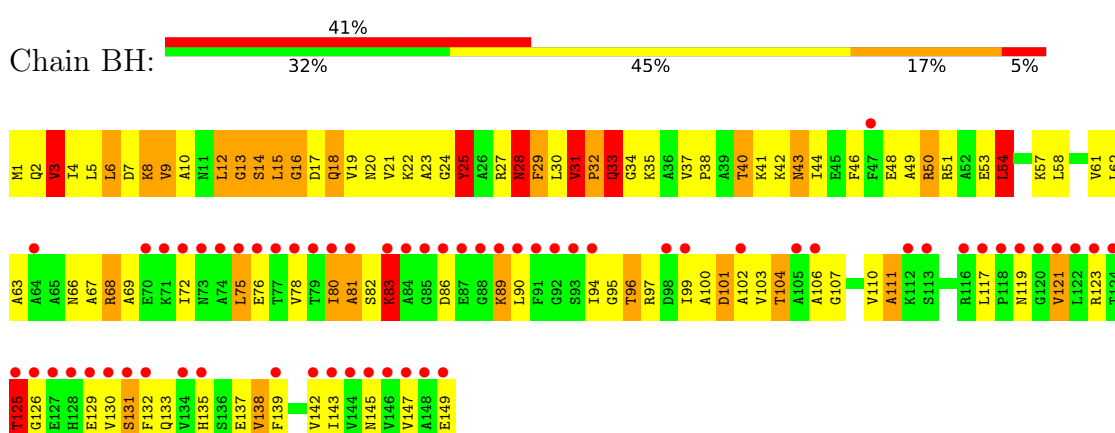
- Molecule 28: 50S ribosomal protein L6



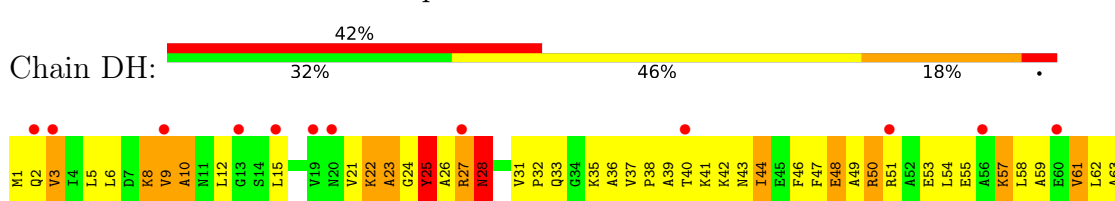
• Molecule 28: 50S ribosomal protein L6

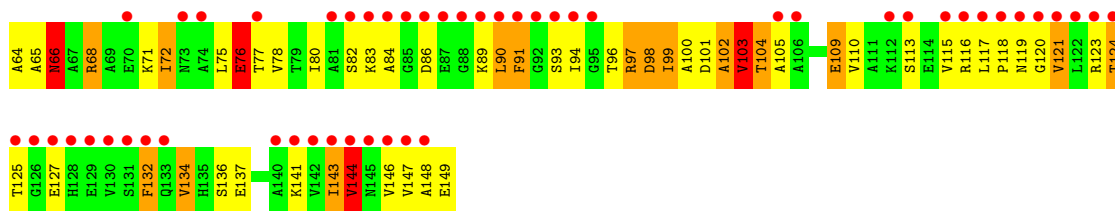


• Molecule 29: 50S ribosomal protein L9

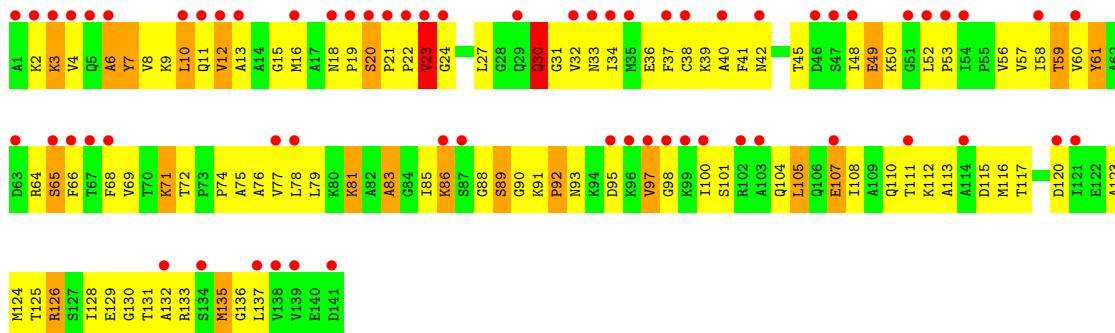


• Molecule 29: 50S ribosomal protein L9

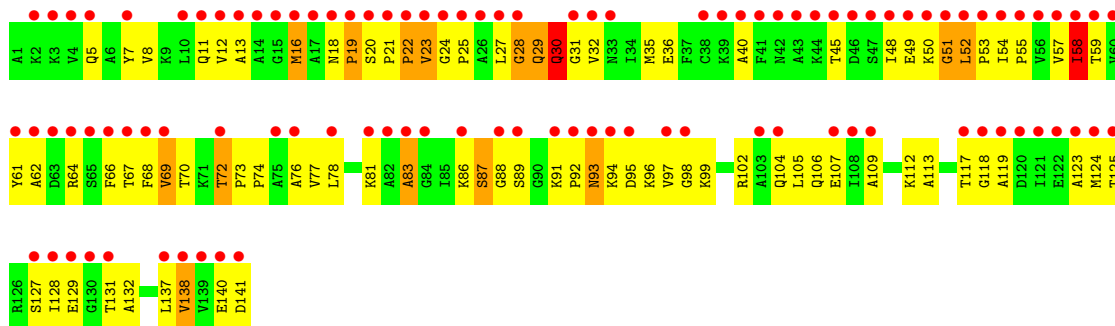
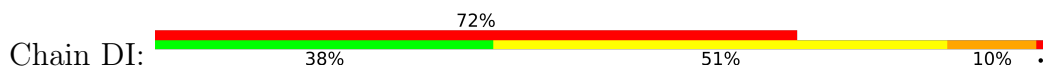




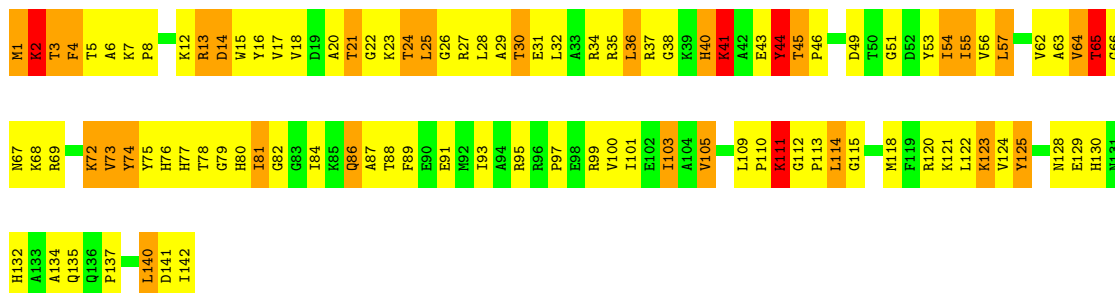
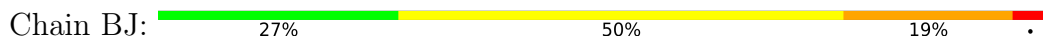
- Molecule 30: 50S ribosomal protein L11



- Molecule 30: 50S ribosomal protein L11

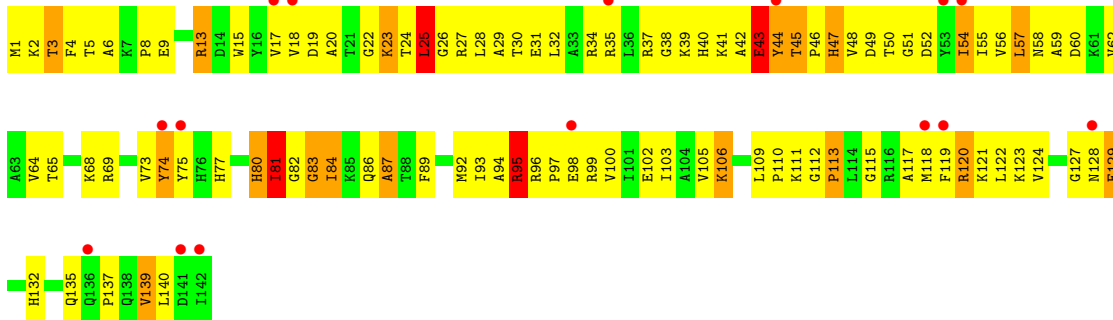


- Molecule 31: 50S ribosomal protein L13



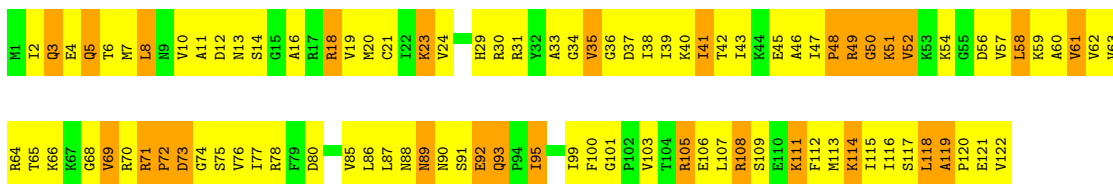
- Molecule 31: 50S ribosomal protein L13

Chain DJ: 



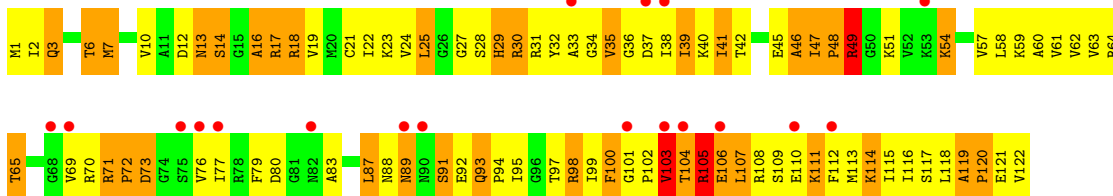
- Molecule 32: 50S ribosomal protein L14

Chain BK: 



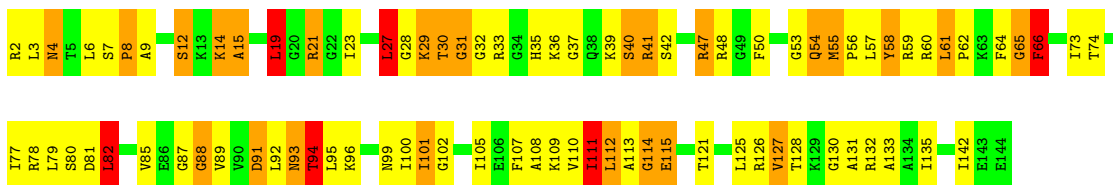
- Molecule 32: 50S ribosomal protein L14

Chain DK: 



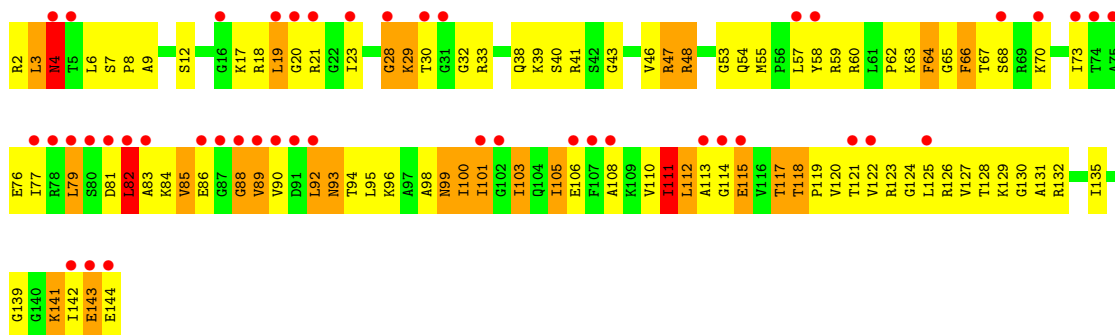
- Molecule 33: 50S ribosomal protein L15

Chain BL: 



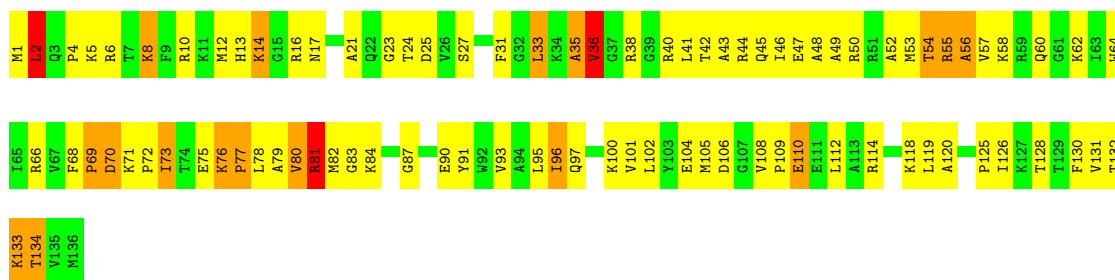
- Molecule 33: 50S ribosomal protein L15

Chain DL: 



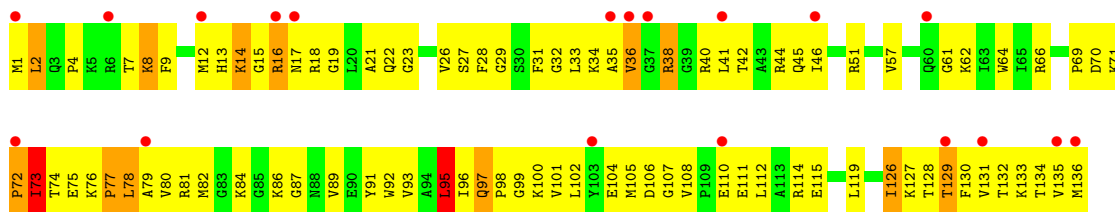
- Molecule 34: 50S ribosomal protein L16

Chain BM: 35% 51% 12%



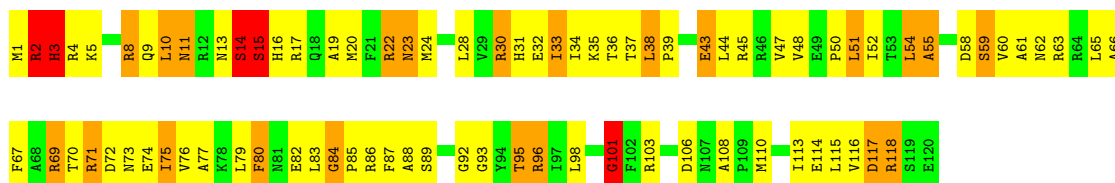
- Molecule 34: 50S ribosomal protein L16

Chain DM: 14% 33% 57% 9%



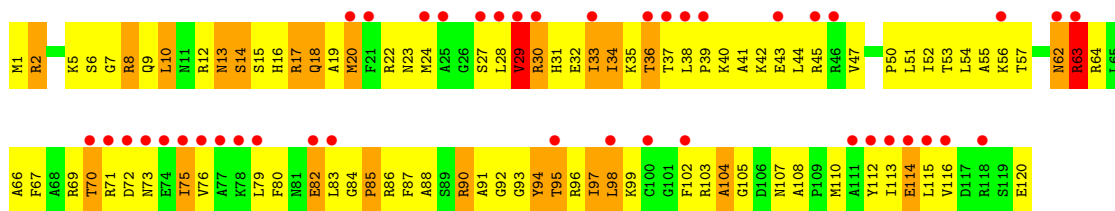
- Molecule 35: 50S ribosomal protein L17

Chain BN: 30% 48% 18%

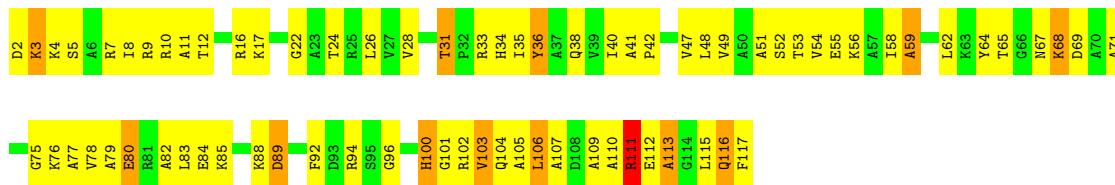


- Molecule 35: 50S ribosomal protein L17

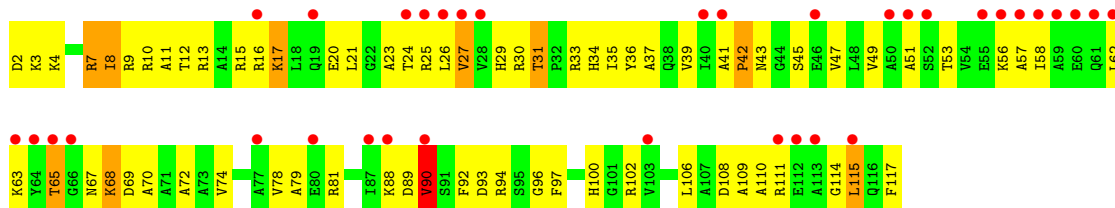
Chain DN: 35% 23% 55% 20%



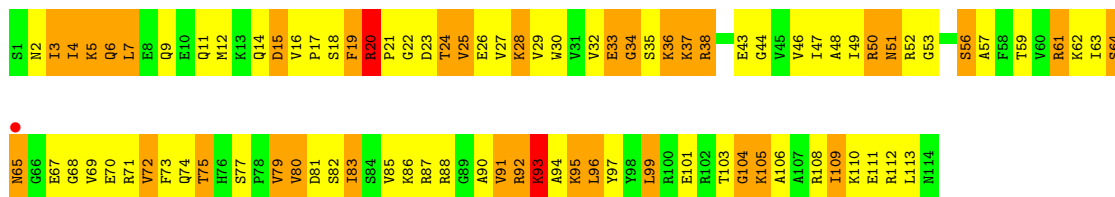
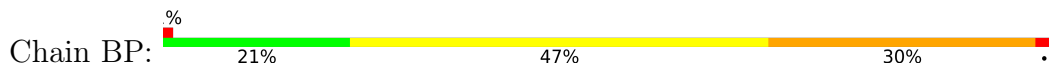
• Molecule 36: 50S ribosomal protein L18



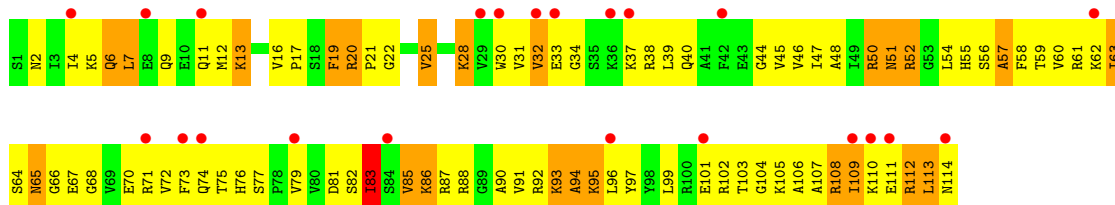
• Molecule 36: 50S ribosomal protein L18



• Molecule 37: 50S ribosomal protein L19



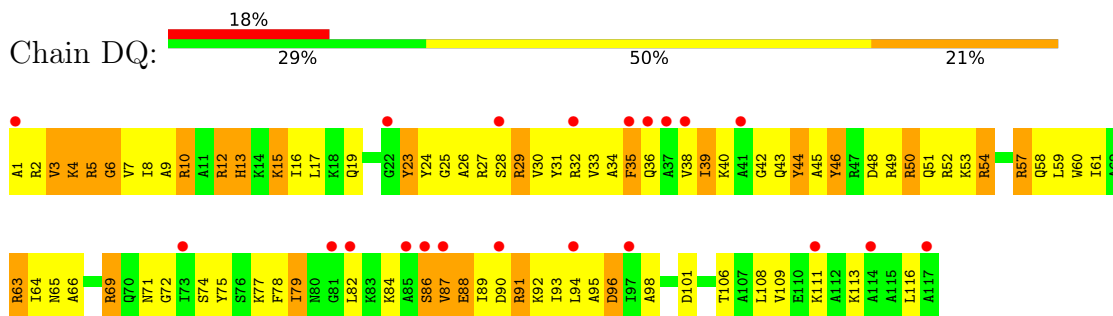
• Molecule 37: 50S ribosomal protein L19



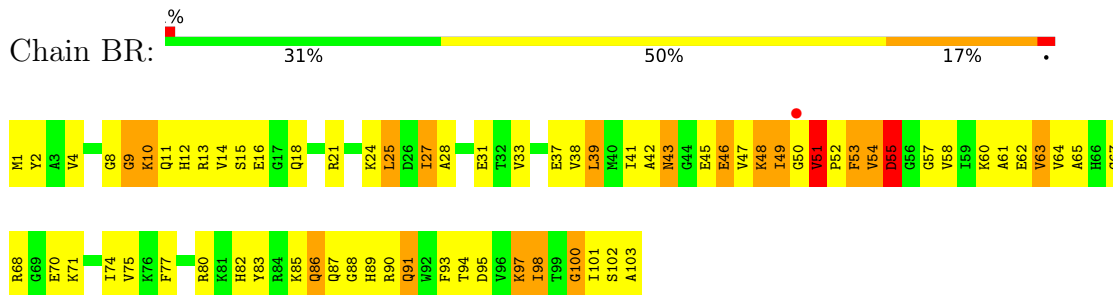
- Molecule 38: 50S ribosomal protein L20



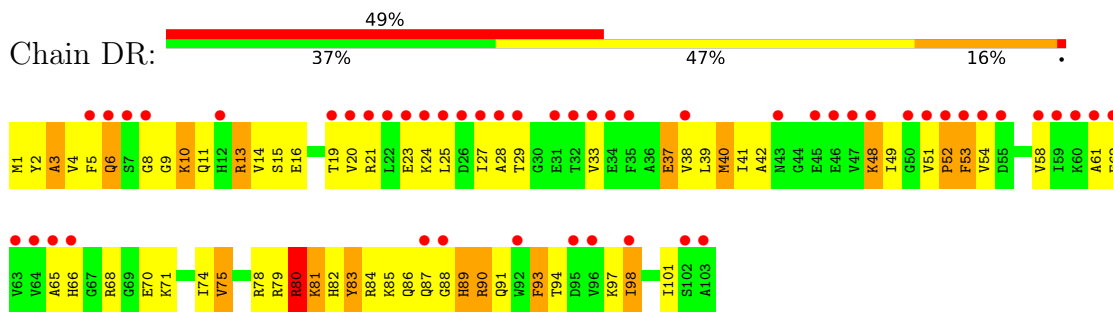
- Molecule 38: 50S ribosomal protein L20



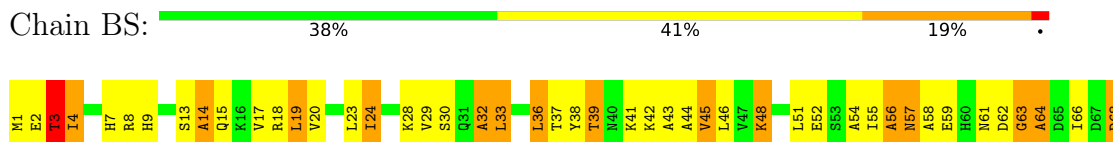
- Molecule 39: 50S ribosomal protein L21



- Molecule 39: 50S ribosomal protein L21

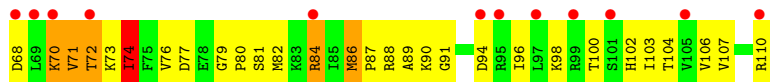
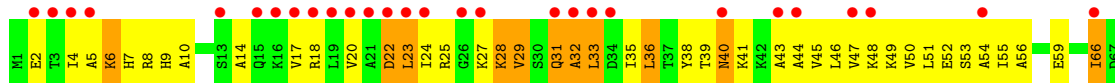


- Molecule 40: 50S ribosomal protein L22

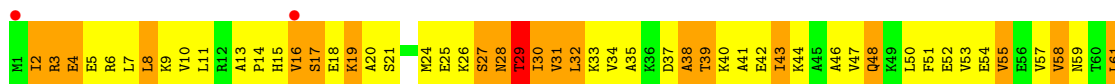
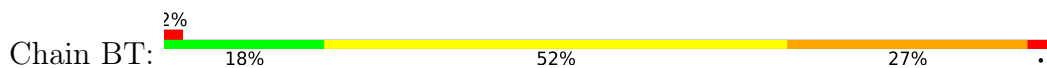




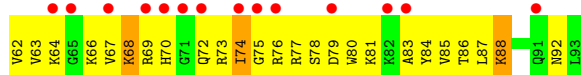
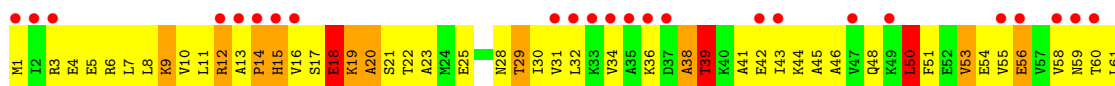
- Molecule 40: 50S ribosomal protein L22



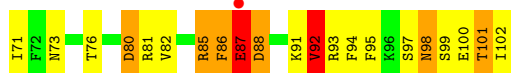
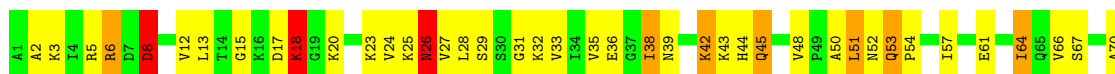
- Molecule 41: 50S ribosomal protein L23



- Molecule 41: 50S ribosomal protein L23

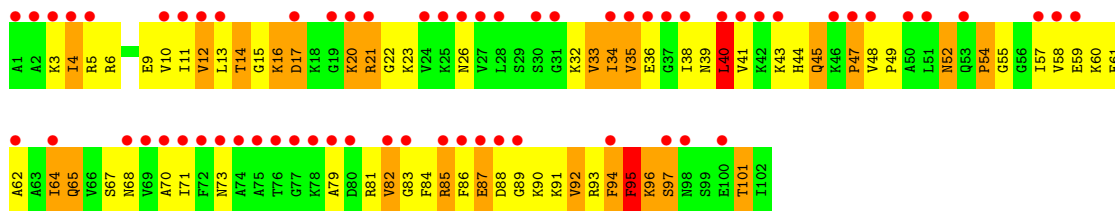


- Molecule 42: 50S ribosomal protein L24

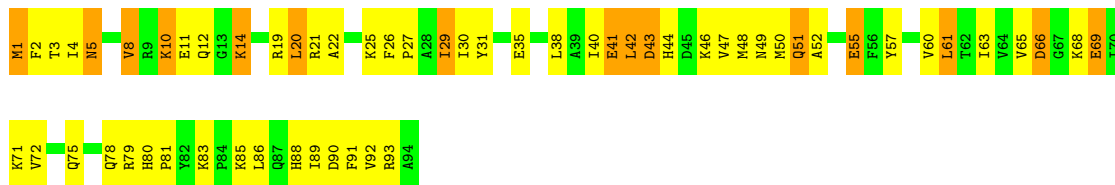


- Molecule 42: 50S ribosomal protein L24

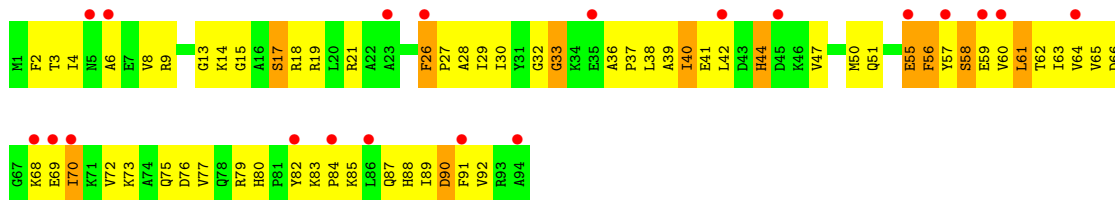




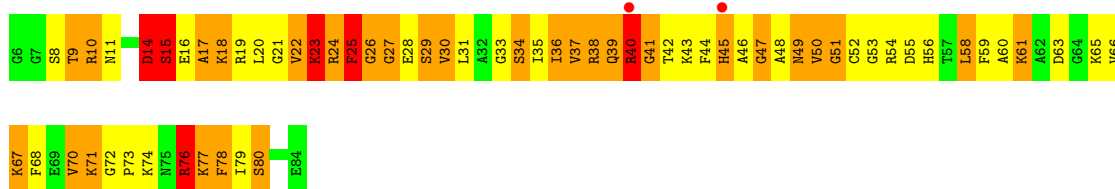
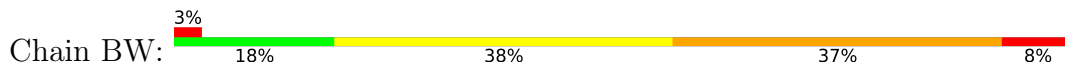
• Molecule 43: 50S ribosomal protein L25



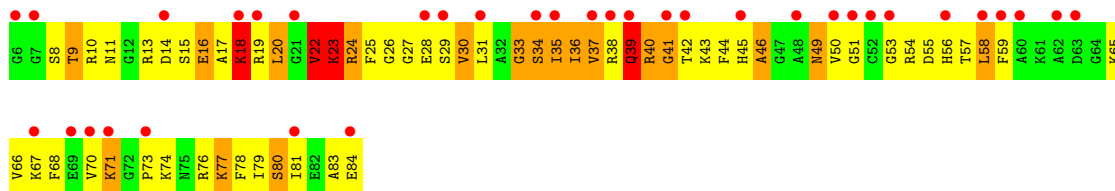
• Molecule 43: 50S ribosomal protein L25




• Molecule 44: 50S ribosomal protein L27

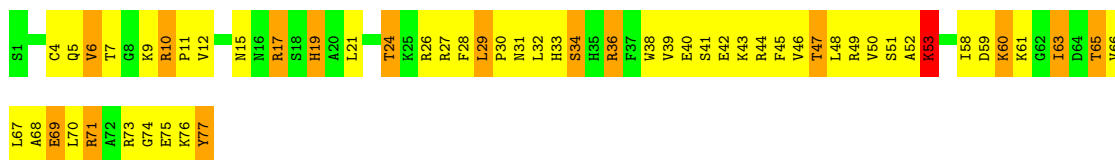


• Molecule 44: 50S ribosomal protein L27



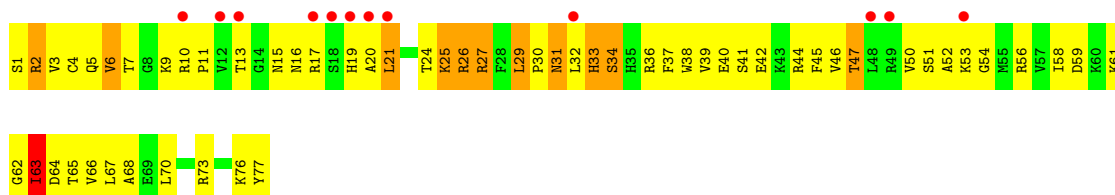
• Molecule 45: 50S ribosomal protein L28

Chain BX:  27% 52% 19%



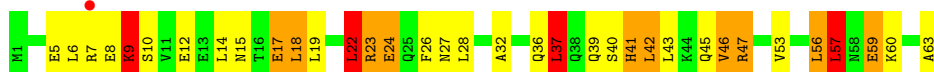
- Molecule 45: 50S ribosomal protein L28

Chain DX:  16% 25% 60% 14%



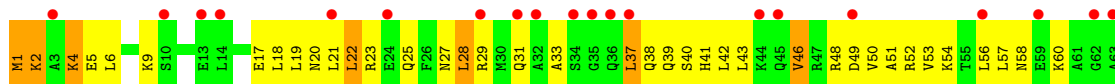
- Molecule 46: 50S ribosomal protein L29

Chain BY:  2% 44% 33% 16% 6%



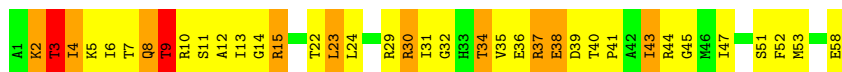
- Molecule 46: 50S ribosomal protein L29

Chain DY:  32% 40% 49% 11%



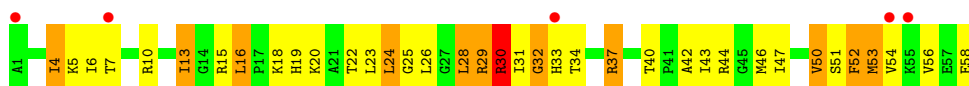
- Molecule 47: 50S ribosomal protein L30

Chain BZ:  36% 43% 17%



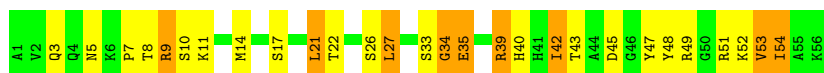
- Molecule 47: 50S ribosomal protein L30

Chain DZ:  9% 36% 43% 19%



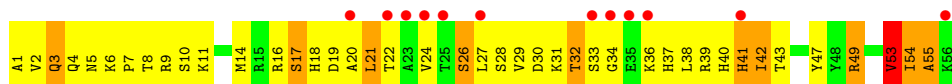
- Molecule 48: 50S ribosomal protein L32

Chain B0:  50% 34% 16%



• Molecule 48: 50S ribosomal protein L32

Chain D0:  21% 25% 55% 18%



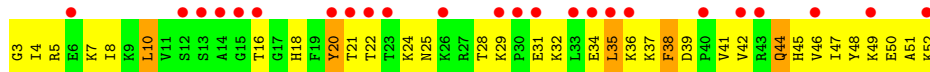
• Molecule 49: 50S ribosomal protein L33

Chain B1:  6% 34% 44% 20%

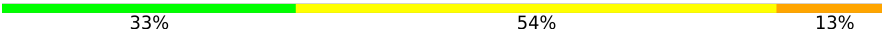


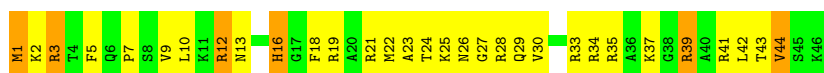
• Molecule 49: 50S ribosomal protein L33

Chain D1:  48% 32% 58% 10%



• Molecule 50: 50S ribosomal protein L34

Chain B2:  33% 54% 13%



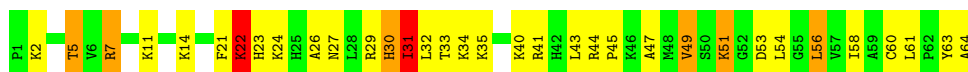
• Molecule 50: 50S ribosomal protein L34

Chain D2:  20% 39% 57%

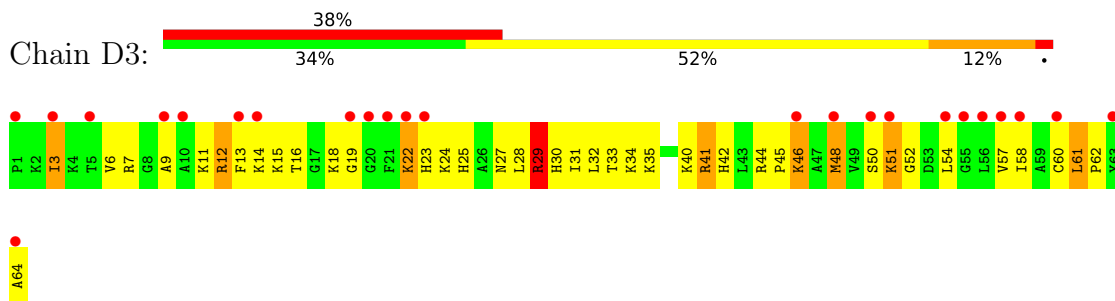


• Molecule 51: 50S ribosomal protein L35

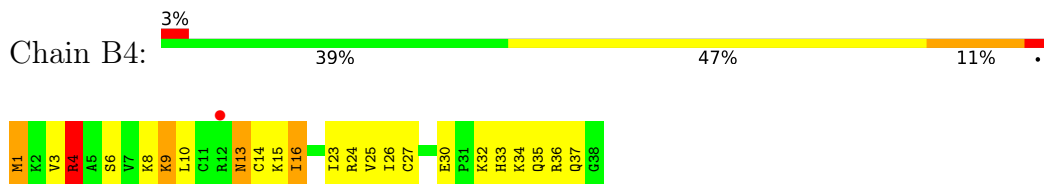
Chain B3:  47% 41% 9%



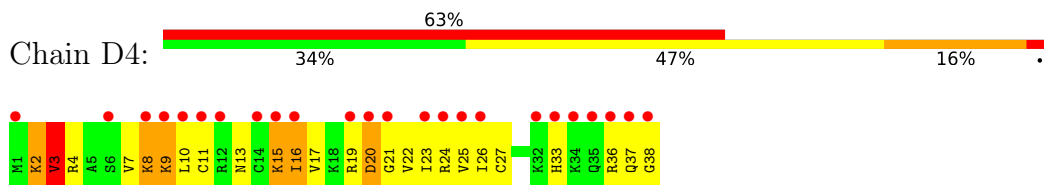
• Molecule 51: 50S ribosomal protein L35



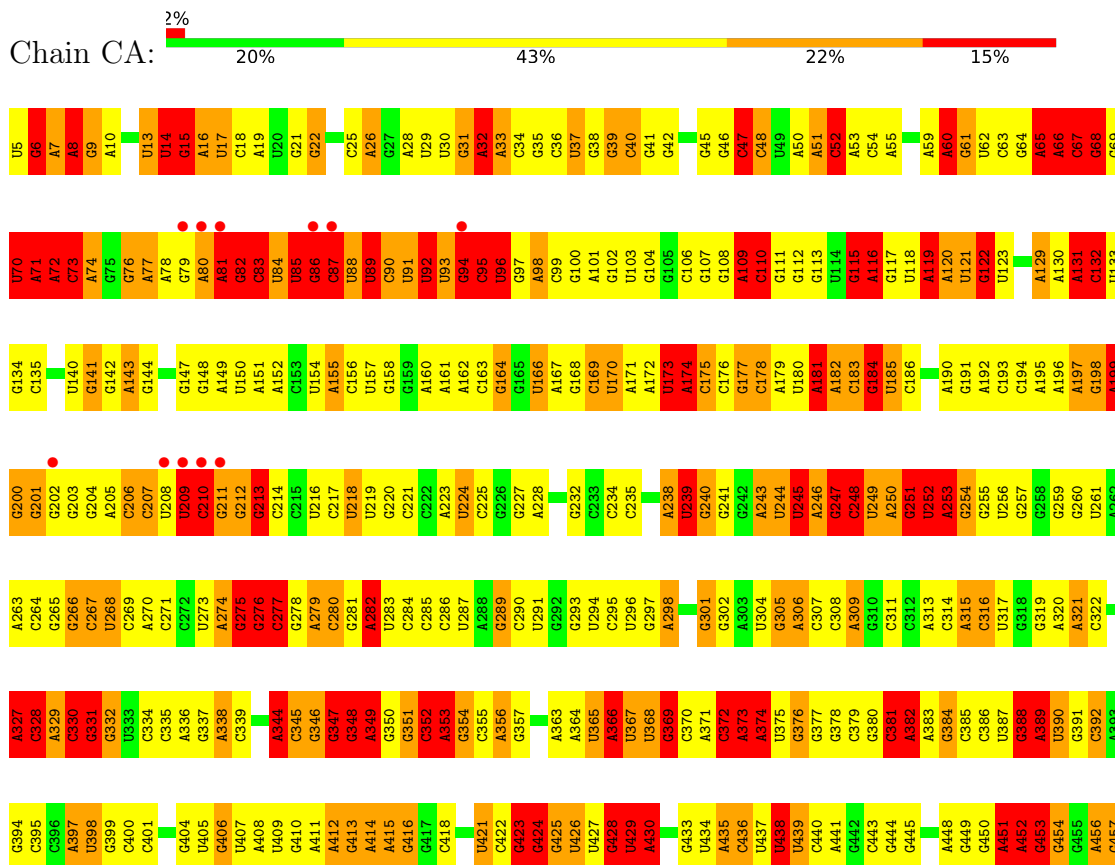
• Molecule 52: 50S ribosomal protein L36



• Molecule 52: 50S ribosomal protein L36



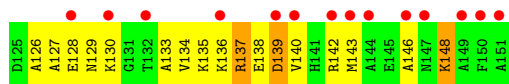
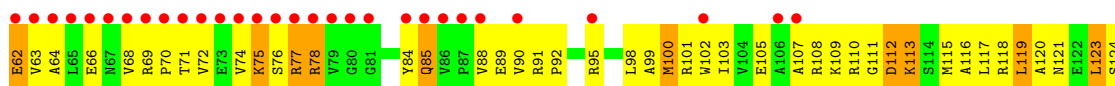
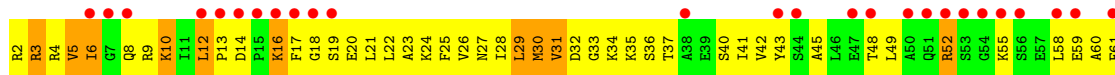
• Molecule 53: 16S rRNA



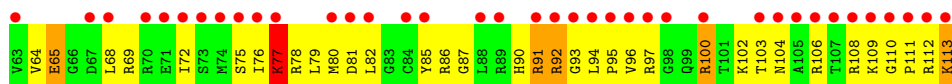
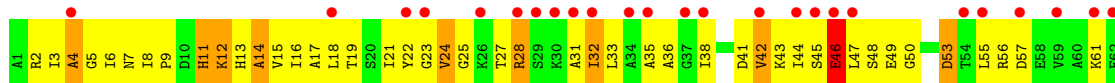
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C1237	C1238	C1239	C1240	C1241	C1242	C1243	C1244	C1245	C1246	C1247	C1248	C1249	C1250	C1251	C1252	C1253	C1254	C1255	C1256	C1257	C1258	C1259	C1260	C1261	C1262	C1263	C1264	C1265	C1266	C1267	C1268	C1269	C1270	C1271	C1272	C1273	C1274	C1275	C1276	C1277	C1278	C1279	C1280	C1281	C1282	C1283	C1284	C1285	C1286	C1287	C1288	C1289	C1290	C1291	C1292	C1293	C1294	C1295	C1296	C1297																																																																																																																																																																																																																																																																																										
G1175	G1176	G1177	G1178	G1179	G1180	G1181	G1182	G1183	G1184	G1185	G1186	G1187	G1188	G1189	G1190	G1191	G1192	G1193	G1194	G1195	G1196	G1197	G1198	G1199	G1200	G1201	G1202	G1203	G1204	G1205	G1206	G1207	G1208	G1209	G1210	G1211	G1212	G1213	G1214	G1215	G1216	G1217	G1218	G1219	G1220	G1221	G1222	G1223	G1224	G1225	G1226	G1227	G1228	G1229	G1230	G1231	G1232	G1233	G1234	G1235	G1236	G1237																																																																																																																																																																																																																																																																																								
A1111	A1112	A1113	A1114	A1115	A1116	A1117	A1118	A1119	A1120	A1121	A1122	A1123	A1124	A1125	A1126	A1127	A1128	A1129	A1130	A1131	A1132	A1133	A1134	A1135	A1136	A1137	A1138	A1139	A1140	A1141	A1142	A1143	A1144	A1145	A1146	A1147	A1148	A1149	A1150	A1151	A1152	A1153	A1154	A1155	A1156	A1157	A1158	A1159	A1160	A1161	A1162	A1163	A1164	A1165	A1166	A1167	A1168	A1169	A1170	A1171	A1172	A1173	A1174																																																																																																																																																																																																																																																																																							
G1050	G1051	G1052	G1053	G1054	G1055	G1056	G1057	G1058	G1059	G1060	G1061	G1062	G1063	G1064	G1065	G1066	G1067	G1068	G1069	G1070	G1071	G1072	G1073	G1074	G1075	G1076	G1077	G1078	G1079	G1080	G1081	G1082	G1083	G1084	G1085	G1086	G1087	G1088	G1089	G1090	G1091	G1092	G1093	G1094	G1095	G1096	G1097	G1098	G1099	G1100	G1101	G1102	G1103	G1104	G1105	G1106	G1107	G1108																																																																																																																																																																																																																																																																																												
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C852	C853	C854	C855	C856	C857	C858	C859	C860	C861	C862	C863	C864	C865	C866	C867	C868	C869	C870	C871	C872	C873	C874	C875	C876	C877	C878	C879	C880	C881	C882	C883	C884	C885	C886	C887	C888	C889	C890	C891	C892	C893	C894	C895	C896	C897	C898	C899	C900	C901	C902	C903	C904	C905	C906	C907	C908	C909	C910	C911	C912	C913	C914	C915	C916	C917	C918	C919	C920																																																																																																																																																																																																																																																																																		
A783	A784	A785	A786	A787	A788	A789	A790	A791	A792	A793	A794	A795	A796	A797	A798	A799	A800	A801	A802	A803	A804	A805	A806	A807	A808	A809	A810	A811	A812	A813	A814	A815	A816	A817	A818	A819	A820	A821	A822	A823	A824	A825	A826	A827	A828	A829	A830	A831	A832	A833	A834	A835	A836	A837	A838	A839	A840	A841	A842	A843	A844	A845	A846	A847	A848	A849	A850	A851	A852	A853	A854	A855	A856	A857	A858	A859	A860	A861	A862	A863	A864	A865	A866	A867	A868	A869	A870	A871	A872	A873	A874	A875	A876	A877	A878	A879	A880	A881	A882	A883	A884	A885	A886	A887	A888	A889	A890	A891	A892	A893	A894	A895	A896	A897	A898	A899	A900	A901	A902	A903	A904	A905	A906	A907	A908	A909	A910	A911	A912	A913	A914	A915	A916	A917	A918	A919	A920	A921	A922	A923	A924	A925	A926	A927	A928	A929	A930	A931	A932	A933	A934	A935	A936	A937	A938	A939	A940	A941	A942	A943	A944	A945	A946	A947	A948	A949	A950	A951	A952	A953	A954	A955	A956	A957	A958	A959	A960	A961	A962	A963	A964	A965	A966	A967	A968	A969	A970	A971	A972	A973	A974	A975	A976	A977	A978	A979	A980	A981	A982	A983	A984	A985	A986	A987	A988	A989	A990	A991	A992	A993	A994	A995	A996	A997	A998	A999	A1000																																																																																																																													
U458	U459	U460	U461	U462	U463	U464	U465	U466	U467	U468	U469	U470	U471	U472	U473	U474	U475	U476	U477	U478	U479	U480	U481	U482	U483	U484	U485	U486	U487	U488	U489	U490	U491	U492	U493	U494	U495	U496	U497	U498	U499	U500	U501	U502	U503	U504	U505	U506	U507	U508	U509	U510	U511	U512	U513	U514	U515	U516	U517	U518	U519	U520	U521	U522	U523	U524	U525	U526	U527	U528	U529	U530	U531	U532	U533	U534	U535	U536	U537	U538	U539	U540	U541	U542	U543	U544	U545	U546	U547	U548	U549	U550	U551	U552	U553	U554	U555	U556	U557	U558	U559	U560	U561	U562	U563	U564	U565	U566	U567	U568	U569	U570	U571	U572	U573	U574	U575	U576	U577	U578	U579	U580	U581	U582	U583	U584	U585	U586	U587	U588	U589	U590	U591	U592	U593	U594	U595	U596	U597	U598	U599	U600	U601	U602	U603	U604	U605	U606	U607	U608	U609	U610	U611	U612	U613	U614	U615	U616	U617	U618	U619	U620	U621	U622	U623	U624	U625	U626	U627	U628	U629	U630	U631	U632	U633	U634	U635	U636	U637	U638	U639	U640	U641	U642	U643	U644	U645	U646	U647	U648	U649	U650	U651	U652	U653	U654	U655	U656	U657	U658	U659	U660	U661	U662	U663	U664	U665	U666	U667	U668	U669	U670	U671	U672	U673	U674	U675	U676	U677	U678	U679	U680	U681	U682	U683	U684	U685	U686	U687	U688	U689	U690	U691	U692	U693	U694	U695	U696	U697	U698	U699	U700	U701	U702	U703	U704	U705	U706	U707	U708	U709	U710	U711	U712	U713	U714	U715	U716	U717	U718	U719	U720	U721	U722	U723	U724	U725	U726	U727	U728	U729	U730	U731	U732	U733	U734	U735	U736	U737	U738	U739	U740	U741	U742	U743	U744	U745	U746	U747	U748	U749	U750	U751	U752	U753	U754	U755	U756	U757	U758	U759	U760	U761	U762	U763	U764	U765	U766	U767	U768	U769	U770	U771	U772	U773	U774	U775	U776	U777	U778	U779	U780	U781	U782	U783	U784	U785	U786	U787	U788	U789	U790	U791	U792	U793	U794	U795	U796	U797	U798	U799	U800



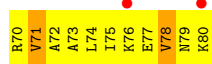
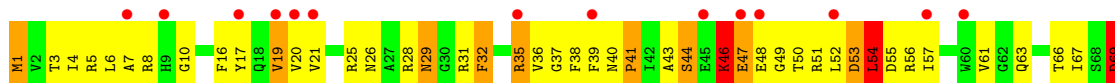
• Molecule 54: 30S ribosomal protein S7



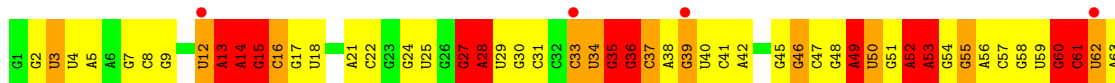
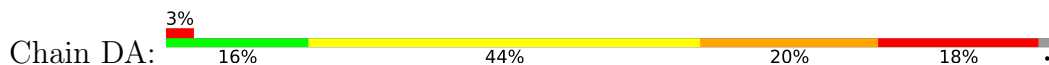
• Molecule 55: 30S ribosomal protein S13



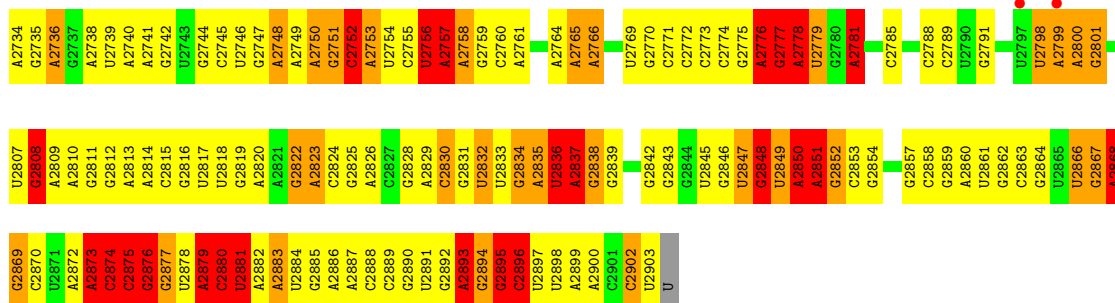
• Molecule 56: 30S ribosomal protein S16



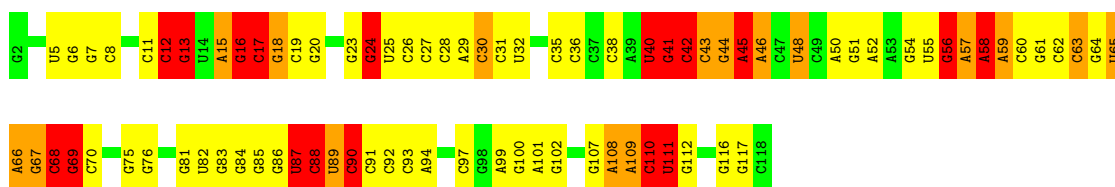
• Molecule 57: 23S rRNA



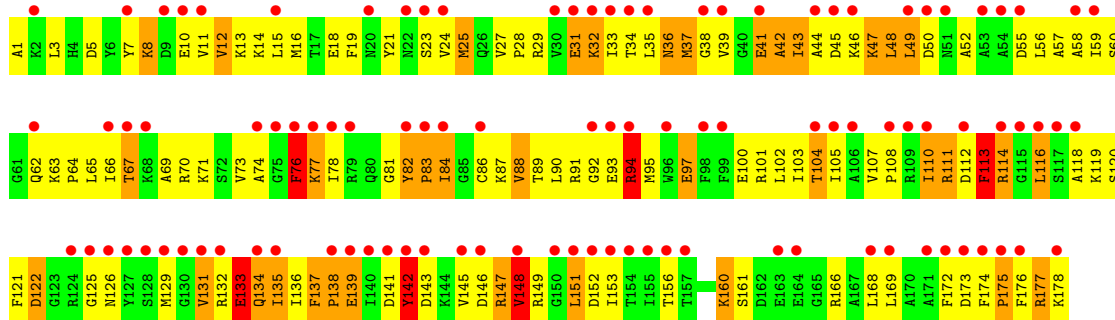
G	A819	U755	G629	U569	A497	U437	G376	G315	G247	G185	A125	A64
G	A820	A756	G630	G570	G498	G438	G377	C316	G248	G186	A126	U65
G	A821	G757	A631	U571	U499	A439	G378	G317	C249	G187	A127	G66
G	G822	G696	A632	A572	A502	C440	G379	C318	C250	G188	C128	U67
U	C823	A699	A633	A573	A503	U441	G380	G319	A251	G189	C129	G68
C	U824	G700	C634	A574	A504	G442	G381	A320	A190	A190	C130	G69
A	A825	G701	C635	A575	A504	A443	A382	A321	A191	A191	A131	G70
U	U826	G702	G636	U576	A505	C444	C383	A322	A192	A192	G132	A71
C	U827	U703	A637	G577	G506	A445	A384	C323	A256	U193	U133	U72
C	U828	G704	G638	A578	A507	A446	C385	A324	G260	G194	G134	A73
C	A829	A705	U639	G579	A508	A447	G386	A195	G261	A195	U135	A74
G	G830	A706	C640	U580	C509	U448	U387	A196	A262	A196	G136	G75
A	U832	G707	U641	C581	G510	A449	G388	U197	G263	A197	U137	G76
C	U833	G708	U642	A582	U511	G450	C389	U198	C264	C198	U138	G77
U	A834	U709	A643	G583	U512	G451	U390	G329	A265	A199	C139	U78
U	C835	G710	A644	C584	A513	U452	A391	U200	G266	U200	C140	C79
A	C836	G711	C645	A585	A514	A453	U392	C331	G141	G141	G141	G80
C	C837	G712	U646	A586	A515	A454	U393	U202	U202	U202	A142	G81
C	C838	G713	G647	C587	C516	C455	G394	C332	C203	C203	C143	U82
C	C839	G714	G648	U588	C517	C456	C395	C333	A204	A204	A144	A83
U	U839	A715	G649	U589	G518	A457	U397	C334	G205	G205	A145	A84
U	C840	A716	C650	A590	U519	A458	C398	C335	U206	U206	C146	A85
U	G843	A718	U652	U591	G524	U459	U399	C337	C274	C274	A147	G86
A	A844	A719	U653	A592	A624	A460	G400	G338	A207	A207	C147	G86
A	A845	U720	A654	U594	A526	C461	G401	G339	U276	U276	U148	U87
C	U846	A721	A655	C595	A527	A462	A402	A340	A278	C208	A149	G88
C	U847	G785	U656	C596	C528	G463	U403	C341	A279	C210	U150	A89
C	C848	G787	U657	U596	U464	U464	U404	A342	U280	G212	C151	U90
U	A849	A788	U658	G597	G465	G465	U405	A343	C281	U151	A152	A91
U	U850	A789	G659	U598	G530	A466	G406	C344	G215	G215	U153	U92
C	C851	U790	C660	A599	G531	A467	G407	A345	A216	A216	U154	G93
C	U852	A727	A661	G600	A532	G468	G408	A346	A217	A217	A155	A94
C	U853	G791	G662	C601	G533	G469	G409	A347	C157	C157	A156	A95
C	C854	A792	U663	A602	A470	A470	G410	A348	A218	A218	U158	C96
U	A855	A793	G664	G604	G471	A471	G411	U349	A221	A221	G159	C97
U	G856	A794	U665	G605	A472	A472	A412	G350	A222	A222	A160	U99
U	G857	C795	A666	G606	G473	G473	C413	C351	A161	A161	A161	U100
C	C858	G796	A667	U607	A538	C474	C414	A352	U162	U162	U162	A101
C	C859	G797	U668	C607	C544	C475	A415	C353	C225	C225	C163	U102
C	U860	A798	A669	A608	U545	G476	U416	A354	A226	A226	C164	A103
C	U861	G799	G669	A609	U546	A477	C417	U355	A227	A227	A165	A104
C	A862	A800	A670	C610	A547	A478	C418	G356	U296	U296	U166	C105
C	A863	G801	C671	C611	G548	A479	U419	C357	G297	G297	A167	C106
C	A864	A802	C672	G612	G549	A480	C420	U358	C229	C229	G168	G107
C	C865	U803	C673	A613	C550	G481	C421	G366	A299	A299	G169	G108
C	A866	C740	G674	A614	G551	A482	A422	G367	A300	A300	U170	C109
C	A867	U741	A675	U615	G552	A483	A423	A362	G301	G301	U171	G110
C	C868	A742	A676	A616	U553	C484	C424	G363	C302	C302	U172	G111
C	U868	A743	A677	G617	U554	C485	G425	C364	U234	U234	A173	A111
C	C869	U744	C678	G618	G555	C486	C426	U365	U304	U304	U174	U112
C	U870	G745	C679	G619	G556	C487	U427	C366	C237	C237	G175	C115
C	U871	U746	G682	G620	U558	G488	A428	G367	U306	U306	A176	C116
C	U872	U747	U683	A621	G559	C489	A429	A368	C238	C238	G177	G117
C	C873	G748	G684	G622	U562	A490	A430	U369	G307	G307	U178	A118
C	A874	U749	G685	C623	A563	C491	U431	G370	G240	G240	C179	A119
C	G875	C814	A750	C624	C564	A492	A432	A371	A241	A241	C180	U120
C	C876	C815	A751	G625	C565	G493	C433	G372	G181	G181	A181	G121
C	A877	C816	A752	U566	G566	G494	U434	U373	A244	A244	A182	G122
C	A878	C817	A753	U567	U567	G495	C435	G312	G245	G245	C183	G123
G	G	C818	U754	U568	C496	C496	C436	C314	C246	C246	C184	G124



• Molecule 58: 5S rRNA



• Molecule 59: 50S ribosomal protein L5



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	211.46Å 434.08Å 621.23Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	82.15 – 3.19 82.15 – 3.19	Depositor EDS
% Data completeness (in resolution range)	75.8 (82.15-3.19) 75.8 (82.15-3.19)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.61 (at 3.19Å)	Xtrriage
Refinement program	PHENIX, PHENIX (phenix.refine)	Depositor
R, R_{free}	0.191 , 0.252 0.203 , 0.262	Depositor DCC
R_{free} test set	15290 reflections (2.01%)	wwPDB-VP
Wilson B-factor (Å ²)	62.8	Xtrriage
Anisotropy	0.366	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.23 , 85.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	284499	wwPDB-VP
Average B, all atoms (Å ²)	113.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.14% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

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

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	0.50	6/36834 (0.0%)	1.27	532/57462 (0.9%)
2	AB	0.40	2/1736 (0.1%)	0.57	4/2338 (0.2%)
2	CB	0.37	2/1736 (0.1%)	0.54	4/2338 (0.2%)
3	AC	0.26	0/1652	0.50	0/2225
3	CC	0.23	0/1652	0.44	0/2225
4	AD	0.29	0/1665	0.52	0/2227
4	CD	0.34	0/1665	0.57	0/2227
5	AE	0.37	1/1119 (0.1%)	0.59	0/1504
5	CE	0.31	0/1119	0.55	0/1504
6	AF	0.28	0/836	0.49	0/1128
6	CF	0.27	0/836	0.50	0/1128
7	AG	0.23	0/1196	0.46	0/1602
8	AH	0.29	0/989	0.54	0/1326
8	CH	0.26	0/989	0.49	0/1326
9	AI	0.23	0/1034	0.47	0/1375
9	CI	0.22	0/1034	0.42	0/1375
10	AJ	0.24	0/797	0.49	0/1077
10	CJ	0.22	0/797	0.47	0/1077
11	AK	0.27	0/893	0.52	0/1205
11	CK	0.25	0/893	0.51	0/1205
12	AL	0.36	0/969	0.67	0/1300
12	CL	0.40	1/969 (0.1%)	0.56	0/1300
13	AM	0.22	0/893	0.47	0/1193
14	AN	0.25	0/785	0.49	0/1043
14	CN	0.21	0/780	0.39	0/1036
15	AO	0.27	0/722	0.47	0/964
15	CO	0.25	0/722	0.45	0/964
16	AP	0.28	0/659	0.49	0/884
17	AQ	0.35	0/658	0.56	0/881
17	CQ	0.27	0/658	0.51	0/881
18	AR	0.28	0/463	0.50	0/621
18	CR	0.28	0/463	0.46	0/621

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
19	AS	0.23	0/653	0.47	0/877
19	CS	0.21	0/653	0.42	0/877
20	AT	0.30	0/671	0.57	0/888
20	CT	0.25	0/671	0.50	0/888
21	AU	0.28	0/431	0.49	0/570
21	CU	0.31	0/431	0.60	0/570
22	BA	0.71	8/68626 (0.0%)	1.50	1274/107056 (1.2%)
23	BB	0.64	0/2828	1.43	38/4410 (0.9%)
24	BC	0.41	0/2122	0.69	1/2852 (0.0%)
24	DC	0.29	0/2122	0.53	0/2852
25	BD	0.48	0/1586	0.76	2/2134 (0.1%)
25	DD	0.28	0/1586	0.57	0/2134
26	BE	0.40	0/1571	0.66	1/2113 (0.0%)
26	DE	0.25	0/1571	0.47	0/2113
27	BF	0.31	0/1435	0.54	0/1926
28	BG	0.33	0/1343	0.60	0/1816
28	DG	0.22	0/1343	0.46	0/1816
29	BH	0.30	0/1122	0.50	0/1515
29	DH	0.34	1/1122 (0.1%)	0.50	0/1515
30	BI	0.23	0/1046	0.47	0/1410
30	DI	0.21	0/1046	0.43	0/1410
31	BJ	0.51	0/1152	0.75	0/1551
31	DJ	0.26	0/1152	0.57	1/1551 (0.1%)
32	BK	0.46	0/948	0.78	0/1268
32	DK	0.29	0/948	0.55	0/1268
33	BL	0.42	0/1054	0.75	1/1403 (0.1%)
33	DL	0.24	0/1054	0.51	0/1403
34	BM	0.44	0/1093	0.67	0/1460
34	DM	0.27	0/1093	0.48	0/1460
35	BN	0.45	0/974	0.70	1/1301 (0.1%)
35	DN	0.27	0/974	0.51	0/1301
36	BO	0.38	0/902	0.60	0/1209
36	DO	0.22	0/902	0.42	0/1209
37	BP	0.43	0/929	0.71	0/1242
37	DP	0.28	0/929	0.49	0/1242
38	BQ	0.52	0/960	0.76	0/1278
38	DQ	0.26	0/960	0.44	0/1278
39	BR	0.54	0/829	0.77	1/1107 (0.1%)
39	DR	0.25	0/829	0.48	0/1107
40	BS	0.50	0/864	0.73	0/1156
40	DS	0.27	0/864	0.51	0/1156
41	BT	0.43	0/745	0.71	0/994
41	DT	0.22	0/745	0.48	0/994

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
42	BU	0.39	0/788	0.70	0/1051
42	DU	0.23	0/788	0.46	0/1051
43	BV	0.39	0/766	0.61	0/1025
43	DV	0.23	0/766	0.43	0/1025
44	BW	0.53	0/603	0.82	0/797
44	DW	0.25	0/603	0.49	0/797
45	BX	0.37	0/635	0.66	0/848
45	DX	0.27	0/635	0.56	0/848
46	BY	0.33	0/510	0.62	0/677
46	DY	0.21	0/510	0.43	0/677
47	BZ	0.45	0/453	0.80	0/605
47	DZ	0.25	0/453	0.50	0/605
48	B0	0.43	0/450	0.71	0/599
48	D0	0.26	0/450	0.50	0/599
49	B1	0.31	0/417	0.57	0/554
49	D1	0.24	0/417	0.45	0/554
50	B2	0.41	0/380	0.71	0/498
50	D2	0.26	0/380	0.51	0/498
51	B3	0.43	0/513	0.66	0/676
51	D3	0.27	0/513	0.52	0/676
52	B4	0.39	0/303	0.69	0/397
52	D4	0.43	0/303	0.54	0/397
53	CA	0.47	6/36762 (0.0%)	1.24	525/57350 (0.9%)
54	CG	0.22	0/1188	0.44	0/1591
55	CM	0.19	0/885	0.41	0/1181
56	CP	0.28	0/649	0.52	0/870
57	DA	0.46	0/68314	1.28	1097/106569 (1.0%)
58	DB	0.51	1/2803 (0.0%)	1.21	38/4371 (0.9%)
59	DF	0.23	0/1444	0.48	0/1937
All	All	0.50	28/306773 (0.0%)	1.19	3520/458565 (0.8%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	CB	0	1
25	BD	0	1
35	BN	0	1
All	All	0	3

The worst 5 of 28 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	DB	69	G	O3'-P	-16.79	1.41	1.61
1	AA	1047	G	O3'-P	-14.49	1.43	1.61
2	AB	107	ARG	C-N	11.33	1.60	1.34
53	CA	1396	A	O3'-P	-11.26	1.47	1.61
2	CB	146	SER	C-N	10.14	1.57	1.34

The worst 5 of 3520 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	CA	1396	A	P-O3'-C3'	16.36	139.33	119.70
57	DA	2586	U	N1-C1'-C2'	-15.75	93.52	114.00
22	BA	2283	C	N1-C1'-C2'	-15.29	94.12	114.00
57	DA	1997	C	N1-C1'-C2'	-14.86	94.69	114.00
23	BB	90	C	N1-C1'-C2'	-14.66	94.94	114.00

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
25	BD	9	VAL	Peptide
35	BN	101	GLY	Peptide
2	CB	107	ARG	Mainchain

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	32895	0	16553	1473	0
2	AB	1705	0	1732	195	0
2	CB	1705	0	1732	176	0
3	AC	1625	0	1699	121	0
3	CC	1625	0	1699	127	0
4	AD	1643	0	1710	166	0
4	CD	1643	0	1710	177	0
5	AE	1106	0	1147	146	0
5	CE	1106	0	1148	123	0
6	AF	818	0	808	76	0
6	CF	818	0	808	74	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	AG	1182	0	1240	89	0
8	AH	979	0	1034	102	0
8	CH	979	0	1034	115	0
9	AI	1022	0	1070	91	0
9	CI	1022	0	1070	108	0
10	AJ	787	0	828	83	0
10	CJ	787	0	828	93	0
11	AK	877	0	887	91	0
11	CK	877	0	887	79	0
12	AL	955	0	1019	92	0
12	CL	955	0	1019	100	0
13	AM	884	0	944	70	0
14	AN	774	0	827	81	0
14	CN	769	0	822	85	0
15	AO	714	0	737	59	0
15	CO	714	0	737	58	0
16	AP	649	0	666	62	0
17	AQ	649	0	691	81	0
17	CQ	649	0	691	70	0
18	AR	456	0	478	31	0
18	CR	456	0	478	47	0
19	AS	638	0	665	47	0
19	CS	638	0	665	64	0
20	AT	665	0	714	65	0
20	CT	665	0	714	61	0
21	AU	426	0	449	79	0
21	CU	426	0	449	80	0
22	BA	61274	0	30819	2356	0
23	BB	2529	0	1281	83	0
24	BC	2083	0	2157	223	0
24	DC	2083	0	2157	262	0
25	BD	1565	0	1616	223	0
25	DD	1565	0	1616	197	0
26	BE	1552	0	1619	152	0
26	DE	1552	0	1619	179	0
27	BF	1411	0	1447	140	0
28	BG	1323	0	1374	147	0
28	DG	1323	0	1374	131	0
29	BH	1111	0	1148	107	0
29	DH	1111	0	1148	115	0
30	BI	1032	0	1088	109	0
30	DI	1032	0	1088	76	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	BJ	1129	0	1162	171	0
31	DJ	1129	0	1162	133	0
32	BK	939	0	1012	113	0
32	DK	939	0	1012	128	0
33	BL	1045	0	1117	122	0
33	DL	1045	0	1117	117	0
34	BM	1074	0	1157	99	0
34	DM	1074	0	1157	107	0
35	BN	961	0	1000	96	0
35	DN	961	0	1000	134	0
36	BO	892	0	923	75	0
36	DO	892	0	923	71	0
37	BP	917	0	965	139	0
37	DP	917	0	965	130	0
38	BQ	947	0	1022	153	0
38	DQ	947	0	1022	124	0
39	BR	816	0	839	116	0
39	DR	816	0	839	87	0
40	BS	857	0	922	81	0
40	DS	857	0	922	78	0
41	BT	739	0	807	112	0
41	DT	739	0	807	108	0
42	BU	780	0	834	52	0
42	DU	780	0	834	92	0
43	BV	753	0	780	70	0
43	DV	753	0	780	71	0
44	BW	596	0	610	201	0
44	DW	596	0	610	117	0
45	BX	625	0	655	67	0
45	DX	625	0	655	85	0
46	BY	509	0	543	44	0
46	DY	509	0	543	63	0
47	BZ	449	0	491	39	0
47	DZ	449	0	491	42	0
48	B0	444	0	461	33	0
48	D0	444	0	461	64	0
49	B1	410	0	440	38	0
49	D1	410	0	440	38	0
50	B2	377	0	418	37	0
50	D2	377	0	418	31	0
51	B3	504	0	574	46	0
51	D3	504	0	574	56	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	B4	302	0	340	39	0
52	D4	302	0	343	36	0
53	CA	32831	0	16521	1811	0
54	CG	1175	0	1230	125	0
55	CM	877	0	937	97	0
56	CP	639	0	656	71	0
57	DA	60995	0	30679	3815	0
58	DB	2507	0	1270	168	0
59	DF	1420	0	1460	194	0
60	AA	42	0	0	0	0
60	AN	1	0	0	0	0
60	BA	135	0	0	0	0
60	BB	4	0	0	0	0
60	BL	1	0	0	0	0
60	CA	42	0	0	0	0
60	DA	133	0	0	0	0
60	DB	1	0	0	0	0
60	DC	1	0	0	0	0
60	DE	1	0	0	0	0
60	DJ	1	0	0	0	0
61	BA	20	0	11	1	0
62	B4	1	0	0	0	0
62	D4	1	0	0	0	0
63	AA	197	0	0	11	0
63	AL	2	0	0	0	0
63	AN	6	0	0	1	0
63	AT	2	0	0	0	0
63	AU	1	0	0	0	0
63	B2	2	0	0	0	0
63	B3	2	0	0	0	0
63	B4	2	0	0	0	0
63	BA	608	0	0	43	0
63	BB	19	0	0	0	0
63	BC	8	0	0	0	0
63	BD	2	0	0	3	0
63	BE	1	0	0	0	0
63	BL	4	0	0	1	0
63	BN	2	0	0	0	0
63	BQ	1	0	0	0	0
63	BT	2	0	0	1	0
63	BV	1	0	0	1	0
63	CA	195	0	0	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
63	CE	3	0	0	1	0
63	CI	1	0	0	0	0
63	CL	1	0	0	0	0
63	CN	3	0	0	0	0
63	CT	2	0	0	0	0
63	CU	2	0	0	0	0
63	D2	1	0	0	1	0
63	D3	1	0	0	0	0
63	D4	4	0	0	0	0
63	DA	603	0	0	19	0
63	DB	4	0	0	0	0
63	DC	10	0	0	0	0
63	DD	1	0	0	0	0
63	DE	3	0	0	0	0
63	DJ	4	0	0	0	0
63	DL	5	0	0	0	0
63	DN	2	0	0	0	0
63	DT	2	0	0	0	0
63	DU	2	0	0	0	0
63	DV	1	0	0	0	0
All	All	284499	0	190851	17927	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 38.

The worst 5 of 17927 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)
57:DA:2092:U:H1'	57:DA:2093:G:C8	1.52	1.43
38:BQ:63:ARG:NH1	38:BQ:96:ASP:HA	1.44	1.29
57:DA:2092:U:O2'	57:DA:2093:G:H5''	1.08	1.24
38:BQ:63:ARG:HH12	38:BQ:96:ASP:CA	1.55	1.20
28:BG:83:THR:HA	28:BG:84:LYS:NZ	1.57	1.19

There are no symmetry-related clashes.

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%)	132 (61%)	55 (26%)	29 (13%)	0	1
2	CB	216/218 (99%)	149 (69%)	49 (23%)	18 (8%)	1	5
3	AC	204/206 (99%)	153 (75%)	34 (17%)	17 (8%)	1	5
3	CC	204/206 (99%)	145 (71%)	39 (19%)	20 (10%)	0	3
4	AD	203/205 (99%)	133 (66%)	43 (21%)	27 (13%)	0	1
4	CD	203/205 (99%)	138 (68%)	42 (21%)	23 (11%)	0	2
5	AE	148/150 (99%)	103 (70%)	28 (19%)	17 (12%)	0	2
5	CE	148/150 (99%)	106 (72%)	24 (16%)	18 (12%)	0	2
6	AF	98/100 (98%)	71 (72%)	20 (20%)	7 (7%)	1	8
6	CF	98/100 (98%)	68 (69%)	19 (19%)	11 (11%)	0	2
7	AG	149/151 (99%)	108 (72%)	35 (24%)	6 (4%)	3	21
8	AH	127/129 (98%)	94 (74%)	27 (21%)	6 (5%)	2	17
8	CH	127/129 (98%)	89 (70%)	29 (23%)	9 (7%)	1	8
9	AI	125/127 (98%)	84 (67%)	30 (24%)	11 (9%)	1	4
9	CI	125/127 (98%)	90 (72%)	23 (18%)	12 (10%)	0	3
10	AJ	96/98 (98%)	70 (73%)	16 (17%)	10 (10%)	0	3
10	CJ	96/98 (98%)	55 (57%)	26 (27%)	15 (16%)	0	1
11	AK	115/117 (98%)	86 (75%)	20 (17%)	9 (8%)	1	6
11	CK	115/117 (98%)	86 (75%)	20 (17%)	9 (8%)	1	6
12	AL	121/123 (98%)	88 (73%)	16 (13%)	17 (14%)	0	1
12	CL	121/123 (98%)	83 (69%)	30 (25%)	8 (7%)	1	9
13	AM	112/114 (98%)	84 (75%)	19 (17%)	9 (8%)	1	6
14	AN	92/100 (92%)	58 (63%)	22 (24%)	12 (13%)	0	1
14	CN	91/100 (91%)	60 (66%)	26 (29%)	5 (6%)	2	14
15	AO	86/88 (98%)	62 (72%)	13 (15%)	11 (13%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	CO	86/88 (98%)	65 (76%)	18 (21%)	3 (4%)	3	24
16	AP	80/82 (98%)	56 (70%)	15 (19%)	9 (11%)	0	2
17	AQ	78/80 (98%)	55 (70%)	11 (14%)	12 (15%)	0	1
17	CQ	78/80 (98%)	61 (78%)	8 (10%)	9 (12%)	0	2
18	AR	53/55 (96%)	41 (77%)	10 (19%)	2 (4%)	3	22
18	CR	53/55 (96%)	42 (79%)	10 (19%)	1 (2%)	8	39
19	AS	77/79 (98%)	59 (77%)	12 (16%)	6 (8%)	1	6
19	CS	77/79 (98%)	46 (60%)	24 (31%)	7 (9%)	1	3
20	AT	83/85 (98%)	65 (78%)	10 (12%)	8 (10%)	0	3
20	CT	83/85 (98%)	61 (74%)	13 (16%)	9 (11%)	0	2
21	AU	49/51 (96%)	26 (53%)	15 (31%)	8 (16%)	0	0
21	CU	49/51 (96%)	21 (43%)	12 (24%)	16 (33%)	0	0
24	BC	269/271 (99%)	180 (67%)	61 (23%)	28 (10%)	0	3
24	DC	269/271 (99%)	164 (61%)	72 (27%)	33 (12%)	0	2
25	BD	207/209 (99%)	141 (68%)	37 (18%)	29 (14%)	0	1
25	DD	207/209 (99%)	134 (65%)	41 (20%)	32 (16%)	0	1
26	BE	199/201 (99%)	148 (74%)	31 (16%)	20 (10%)	0	3
26	DE	199/201 (99%)	120 (60%)	54 (27%)	25 (13%)	0	1
27	BF	175/177 (99%)	127 (73%)	29 (17%)	19 (11%)	0	2
28	BG	174/176 (99%)	116 (67%)	34 (20%)	24 (14%)	0	1
28	DG	174/176 (99%)	104 (60%)	39 (22%)	31 (18%)	0	0
29	BH	147/149 (99%)	63 (43%)	52 (35%)	32 (22%)	0	0
29	DH	147/149 (99%)	73 (50%)	53 (36%)	21 (14%)	0	1
30	BI	139/141 (99%)	84 (60%)	41 (30%)	14 (10%)	0	3
30	DI	139/141 (99%)	83 (60%)	38 (27%)	18 (13%)	0	1
31	BJ	140/142 (99%)	106 (76%)	20 (14%)	14 (10%)	0	3
31	DJ	140/142 (99%)	92 (66%)	30 (21%)	18 (13%)	0	1
32	BK	120/122 (98%)	83 (69%)	20 (17%)	17 (14%)	0	1
32	DK	120/122 (98%)	77 (64%)	21 (18%)	22 (18%)	0	0
33	BL	141/143 (99%)	95 (67%)	30 (21%)	16 (11%)	0	2
33	DL	141/143 (99%)	78 (55%)	42 (30%)	21 (15%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	BM	134/136 (98%)	96 (72%)	24 (18%)	14 (10%)	0	3
34	DM	134/136 (98%)	94 (70%)	25 (19%)	15 (11%)	0	2
35	BN	118/120 (98%)	88 (75%)	20 (17%)	10 (8%)	1	4
35	DN	118/120 (98%)	67 (57%)	35 (30%)	16 (14%)	0	1
36	BO	114/116 (98%)	88 (77%)	17 (15%)	9 (8%)	1	6
36	DO	114/116 (98%)	79 (69%)	27 (24%)	8 (7%)	1	8
37	BP	112/114 (98%)	74 (66%)	23 (20%)	15 (13%)	0	1
37	DP	112/114 (98%)	66 (59%)	28 (25%)	18 (16%)	0	0
38	BQ	115/117 (98%)	99 (86%)	9 (8%)	7 (6%)	1	12
38	DQ	115/117 (98%)	78 (68%)	24 (21%)	13 (11%)	0	2
39	BR	101/103 (98%)	82 (81%)	11 (11%)	8 (8%)	1	6
39	DR	101/103 (98%)	70 (69%)	21 (21%)	10 (10%)	0	3
40	BS	108/110 (98%)	83 (77%)	16 (15%)	9 (8%)	1	5
40	DS	108/110 (98%)	76 (70%)	24 (22%)	8 (7%)	1	7
41	BT	91/93 (98%)	58 (64%)	20 (22%)	13 (14%)	0	1
41	DT	91/93 (98%)	49 (54%)	26 (29%)	16 (18%)	0	0
42	BU	100/102 (98%)	70 (70%)	16 (16%)	14 (14%)	0	1
42	DU	100/102 (98%)	51 (51%)	27 (27%)	22 (22%)	0	0
43	BV	92/94 (98%)	77 (84%)	14 (15%)	1 (1%)	14	51
43	DV	92/94 (98%)	65 (71%)	22 (24%)	5 (5%)	2	14
44	BW	77/79 (98%)	31 (40%)	18 (23%)	28 (36%)	0	0
44	DW	77/79 (98%)	32 (42%)	26 (34%)	19 (25%)	0	0
45	BX	75/77 (97%)	58 (77%)	13 (17%)	4 (5%)	2	15
45	DX	75/77 (97%)	48 (64%)	19 (25%)	8 (11%)	0	2
46	BY	61/63 (97%)	40 (66%)	13 (21%)	8 (13%)	0	1
46	DY	61/63 (97%)	43 (70%)	13 (21%)	5 (8%)	1	5
47	BZ	56/58 (97%)	43 (77%)	10 (18%)	3 (5%)	2	14
47	DZ	56/58 (97%)	34 (61%)	16 (29%)	6 (11%)	0	2
48	B0	54/56 (96%)	42 (78%)	7 (13%)	5 (9%)	0	3
48	D0	54/56 (96%)	40 (74%)	7 (13%)	7 (13%)	0	1
49	B1	48/50 (96%)	35 (73%)	10 (21%)	3 (6%)	1	10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
49	D1	48/50 (96%)	37 (77%)	6 (12%)	5 (10%)	0	3
50	B2	44/46 (96%)	39 (89%)	4 (9%)	1 (2%)	6	34
50	D2	44/46 (96%)	30 (68%)	7 (16%)	7 (16%)	0	0
51	B3	62/64 (97%)	51 (82%)	8 (13%)	3 (5%)	2	17
51	D3	62/64 (97%)	40 (64%)	17 (27%)	5 (8%)	1	5
52	B4	36/38 (95%)	27 (75%)	6 (17%)	3 (8%)	1	5
52	D4	36/38 (95%)	22 (61%)	9 (25%)	5 (14%)	0	1
54	CG	148/150 (99%)	98 (66%)	42 (28%)	8 (5%)	2	14
55	CM	111/113 (98%)	63 (57%)	36 (32%)	12 (11%)	0	2
56	CP	78/80 (98%)	49 (63%)	19 (24%)	10 (13%)	0	1
59	DF	176/178 (99%)	98 (56%)	44 (25%)	34 (19%)	0	0
All	All	11238/11447 (98%)	7571 (67%)	2387 (21%)	1280 (11%)	0	2

5 of 1280 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	20	ARG
2	AB	40	ILE
2	AB	72	LYS
2	AB	75	ALA
2	AB	119	GLN

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%)	142 (79%)	38 (21%)	1	6
2	CB	180/180 (100%)	156 (87%)	24 (13%)	4	18
3	AC	170/170 (100%)	142 (84%)	28 (16%)	2	10
3	CC	170/170 (100%)	152 (89%)	18 (11%)	6	27
4	AD	172/172 (100%)	146 (85%)	26 (15%)	3	14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	CD	172/172 (100%)	140 (81%)	32 (19%)	1	8
5	AE	113/113 (100%)	90 (80%)	23 (20%)	1	6
5	CE	113/113 (100%)	94 (83%)	19 (17%)	2	10
6	AF	87/87 (100%)	75 (86%)	12 (14%)	3	16
6	CF	87/87 (100%)	75 (86%)	12 (14%)	3	16
7	AG	124/124 (100%)	108 (87%)	16 (13%)	4	19
8	AH	104/104 (100%)	87 (84%)	17 (16%)	2	11
8	CH	104/104 (100%)	87 (84%)	17 (16%)	2	11
9	AI	105/105 (100%)	84 (80%)	21 (20%)	1	6
9	CI	105/105 (100%)	89 (85%)	16 (15%)	3	13
10	AJ	86/86 (100%)	72 (84%)	14 (16%)	2	11
10	CJ	86/86 (100%)	77 (90%)	9 (10%)	7	28
11	AK	90/90 (100%)	73 (81%)	17 (19%)	1	8
11	CK	90/90 (100%)	77 (86%)	13 (14%)	3	15
12	AL	103/103 (100%)	82 (80%)	21 (20%)	1	6
12	CL	103/103 (100%)	86 (84%)	17 (16%)	2	10
13	AM	92/92 (100%)	87 (95%)	5 (5%)	22	58
14	AN	79/83 (95%)	72 (91%)	7 (9%)	9	35
14	CN	79/83 (95%)	67 (85%)	12 (15%)	3	13
15	AO	76/76 (100%)	67 (88%)	9 (12%)	5	23
15	CO	76/76 (100%)	69 (91%)	7 (9%)	9	33
16	AP	65/65 (100%)	57 (88%)	8 (12%)	4	21
17	AQ	74/74 (100%)	58 (78%)	16 (22%)	1	5
17	CQ	74/74 (100%)	61 (82%)	13 (18%)	2	9
18	AR	48/48 (100%)	46 (96%)	2 (4%)	30	65
18	CR	48/48 (100%)	44 (92%)	4 (8%)	11	40
19	AS	70/70 (100%)	61 (87%)	9 (13%)	4	19
19	CS	70/70 (100%)	62 (89%)	8 (11%)	5	24
20	AT	65/65 (100%)	49 (75%)	16 (25%)	0	2
20	CT	65/65 (100%)	53 (82%)	12 (18%)	1	8
21	AU	44/44 (100%)	33 (75%)	11 (25%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	CU	44/44 (100%)	33 (75%)	11 (25%)	0	2
24	BC	216/216 (100%)	169 (78%)	47 (22%)	1	5
24	DC	216/216 (100%)	189 (88%)	27 (12%)	4	21
25	BD	164/164 (100%)	131 (80%)	33 (20%)	1	6
25	DD	164/164 (100%)	141 (86%)	23 (14%)	3	16
26	BE	165/165 (100%)	123 (74%)	42 (26%)	0	2
26	DE	165/165 (100%)	147 (89%)	18 (11%)	6	26
27	BF	148/148 (100%)	127 (86%)	21 (14%)	3	15
28	BG	137/137 (100%)	108 (79%)	29 (21%)	1	5
28	DG	137/137 (100%)	118 (86%)	19 (14%)	3	16
29	BH	114/114 (100%)	96 (84%)	18 (16%)	2	12
29	DH	114/114 (100%)	94 (82%)	20 (18%)	2	9
30	BI	109/109 (100%)	91 (84%)	18 (16%)	2	10
30	DI	109/109 (100%)	102 (94%)	7 (6%)	17	52
31	BJ	116/116 (100%)	87 (75%)	29 (25%)	0	2
31	DJ	116/116 (100%)	102 (88%)	14 (12%)	5	22
32	BK	103/103 (100%)	86 (84%)	17 (16%)	2	10
32	DK	103/103 (100%)	81 (79%)	22 (21%)	1	5
33	BL	102/102 (100%)	77 (76%)	25 (24%)	0	2
33	DL	102/102 (100%)	87 (85%)	15 (15%)	3	14
34	BM	109/109 (100%)	85 (78%)	24 (22%)	1	5
34	DM	109/109 (100%)	97 (89%)	12 (11%)	6	26
35	BN	100/100 (100%)	77 (77%)	23 (23%)	1	3
35	DN	100/100 (100%)	82 (82%)	18 (18%)	1	9
36	BO	86/86 (100%)	69 (80%)	17 (20%)	1	7
36	DO	86/86 (100%)	79 (92%)	7 (8%)	11	42
37	BP	99/99 (100%)	69 (70%)	30 (30%)	0	0
37	DP	99/99 (100%)	88 (89%)	11 (11%)	6	25
38	BQ	89/89 (100%)	75 (84%)	14 (16%)	2	12
38	DQ	89/89 (100%)	75 (84%)	14 (16%)	2	12
39	BR	84/84 (100%)	68 (81%)	16 (19%)	1	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	DR	84/84 (100%)	71 (84%)	13 (16%)	2	12
40	BS	93/93 (100%)	71 (76%)	22 (24%)	1	3
40	DS	93/93 (100%)	77 (83%)	16 (17%)	2	10
41	BT	80/80 (100%)	59 (74%)	21 (26%)	0	2
41	DT	80/80 (100%)	74 (92%)	6 (8%)	13	45
42	BU	83/83 (100%)	66 (80%)	17 (20%)	1	6
42	DU	83/83 (100%)	72 (87%)	11 (13%)	4	18
43	BV	78/78 (100%)	59 (76%)	19 (24%)	0	2
43	DV	78/78 (100%)	67 (86%)	11 (14%)	3	16
44	BW	59/59 (100%)	42 (71%)	17 (29%)	0	1
44	DW	59/59 (100%)	46 (78%)	13 (22%)	1	5
45	BX	67/67 (100%)	51 (76%)	16 (24%)	0	3
45	DX	67/67 (100%)	58 (87%)	9 (13%)	4	18
46	BY	55/55 (100%)	42 (76%)	13 (24%)	1	3
46	DY	55/55 (100%)	52 (94%)	3 (6%)	21	57
47	BZ	48/48 (100%)	34 (71%)	14 (29%)	0	1
47	DZ	48/48 (100%)	40 (83%)	8 (17%)	2	10
48	B0	47/47 (100%)	38 (81%)	9 (19%)	1	8
48	D0	47/47 (100%)	40 (85%)	7 (15%)	3	14
49	B1	45/45 (100%)	36 (80%)	9 (20%)	1	6
49	D1	45/45 (100%)	41 (91%)	4 (9%)	9	35
50	B2	38/38 (100%)	31 (82%)	7 (18%)	1	8
50	D2	38/38 (100%)	34 (90%)	4 (10%)	7	28
51	B3	51/51 (100%)	44 (86%)	7 (14%)	3	17
51	D3	51/51 (100%)	42 (82%)	9 (18%)	2	9
52	B4	34/34 (100%)	29 (85%)	5 (15%)	3	14
52	D4	34/34 (100%)	27 (79%)	7 (21%)	1	6
54	CG	123/123 (100%)	101 (82%)	22 (18%)	2	9
55	CM	91/91 (100%)	80 (88%)	11 (12%)	5	22
56	CP	65/65 (100%)	52 (80%)	13 (20%)	1	6
59	DF	149/149 (100%)	123 (83%)	26 (17%)	2	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	9331/9339 (100%)	7772 (83%)	1559 (17%)	2 10

5 of 1559 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	CC	126	ARG
17	CQ	58	VAL
4	CD	127	ARG
3	CC	123	LEU
9	CI	4	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 333 such sidechains are listed below:

Mol	Chain	Res	Type
56	CP	26	ASN
35	DN	23	ASN
20	CT	74	HIS
28	DG	19	ASN
39	DR	6	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1532/1533 (99%)	478 (31%)	237 (15%)
22	BA	2850/2903 (98%)	829 (29%)	411 (14%)
23	BB	117/118 (99%)	31 (26%)	17 (14%)
53	CA	1529/1530 (99%)	540 (35%)	242 (15%)
57	DA	2838/2904 (97%)	1042 (36%)	504 (17%)
58	DB	116/117 (99%)	37 (31%)	17 (14%)
All	All	8982/9105 (98%)	2957 (32%)	1428 (15%)

5 of 2957 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	6	G
1	AA	7	A
1	AA	8	A
1	AA	9	G

5 of 1428 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
57	DA	87	U
57	DA	1304	A
57	DA	230	G
57	DA	86	G
57	DA	726	G

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 365 ligands modelled in this entry, 364 are monoatomic - leaving 1 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
61	CLM	BA	3136	-	19,20,20	2.56	4 (21%)	23,27,27	2.08	7 (30%)

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
61	CLM	BA	3136	-	-	2/20/22/22	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	BA	3136	CLM	O9B-N9	7.70	1.35	1.22
61	BA	3136	CLM	C11-C6	5.42	1.47	1.39
61	BA	3136	CLM	C2-N2	4.05	1.42	1.34
61	BA	3136	CLM	C8-C9	2.51	1.43	1.38

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
61	BA	3136	CLM	C3-N2-C2	-5.07	114.11	123.07
61	BA	3136	CLM	C6-C5-C3	4.57	119.68	111.64
61	BA	3136	CLM	C4-C3-N2	3.04	114.10	109.27
61	BA	3136	CLM	O4-C4-C3	3.00	118.37	111.09
61	BA	3136	CLM	O5-C5-C3	2.64	115.05	107.99

There are no chirality outliers.

All (2) torsion outliers are listed below:

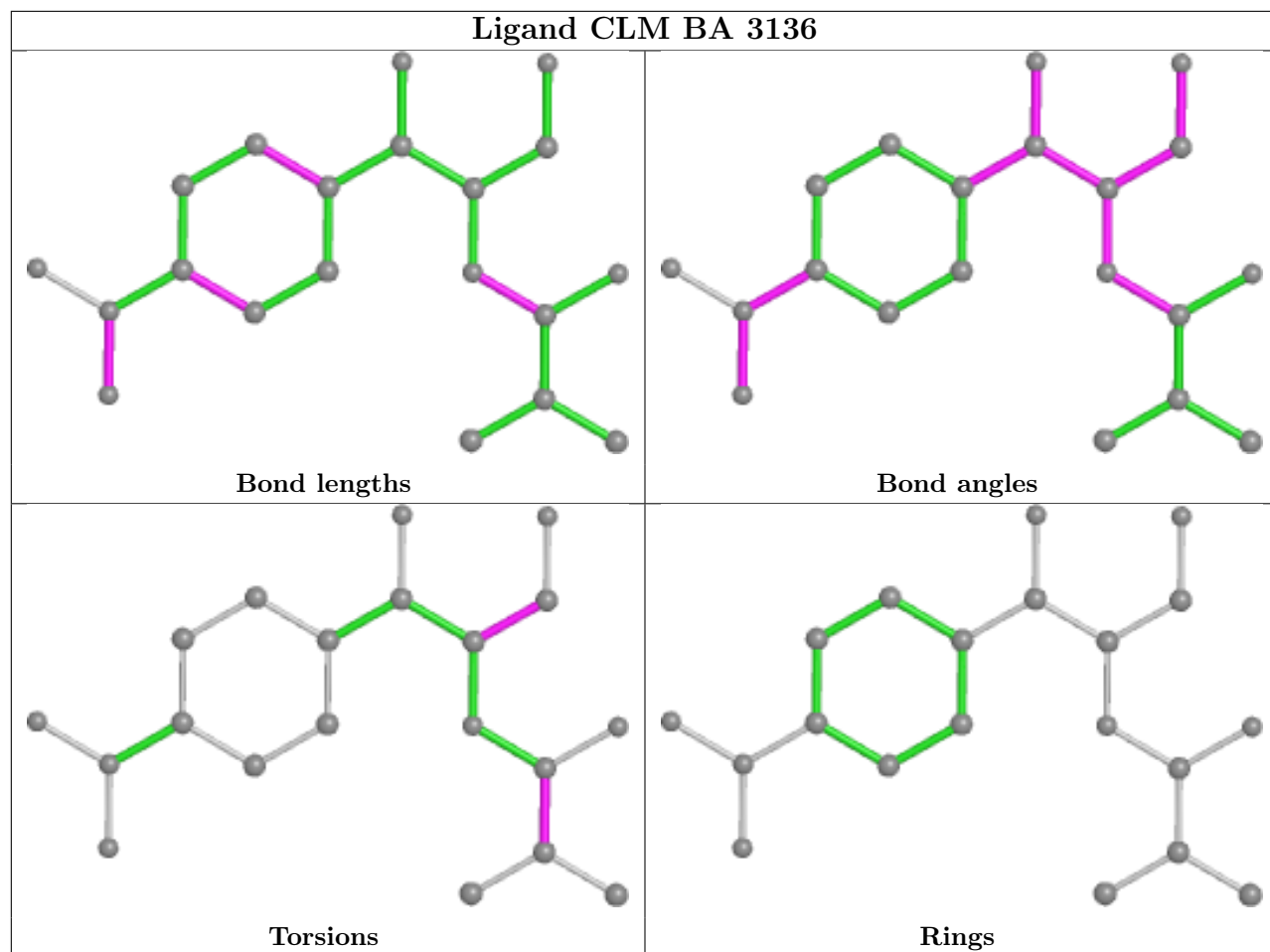
Mol	Chain	Res	Type	Atoms
61	BA	3136	CLM	N2-C3-C4-O4
61	BA	3136	CLM	CL2-C1-C2-N2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
61	BA	3136	CLM	1	0

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



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

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

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1533/1533 (100%)	-0.64	16 (1%) 82 72	28, 82, 201, 415	0
2	AB	218/218 (100%)	1.62	69 (31%) 0 0	117, 160, 233, 278	0
2	CB	218/218 (100%)	1.15	42 (19%) 1 1	121, 173, 237, 292	0
3	AC	206/206 (100%)	0.48	13 (6%) 20 11	64, 107, 164, 196	0
3	CC	206/206 (100%)	1.04	27 (13%) 3 2	79, 158, 229, 303	0
4	AD	205/205 (100%)	-0.08	6 (2%) 51 36	45, 89, 164, 275	0
4	CD	205/205 (100%)	-0.30	1 (0%) 91 86	39, 61, 122, 254	0
5	AE	150/150 (100%)	-0.17	1 (0%) 87 81	57, 81, 142, 210	0
5	CE	150/150 (100%)	0.33	3 (2%) 65 51	67, 99, 157, 252	0
6	AF	100/100 (100%)	0.08	4 (4%) 38 25	55, 103, 161, 189	0
6	CF	100/100 (100%)	-0.05	1 (1%) 82 72	72, 116, 176, 217	0
7	AG	151/151 (100%)	0.46	13 (8%) 10 5	88, 150, 218, 247	0
8	AH	129/129 (100%)	0.14	7 (5%) 25 14	44, 82, 127, 184	0
8	CH	129/129 (100%)	0.60	8 (6%) 20 11	68, 113, 170, 246	0
9	AI	127/127 (100%)	0.99	24 (18%) 1 1	72, 154, 248, 287	0
9	CI	127/127 (100%)	1.95	50 (39%) 0 0	116, 201, 289, 319	0
10	AJ	98/98 (100%)	0.73	16 (16%) 1 1	78, 127, 203, 244	0
10	CJ	98/98 (100%)	2.74	54 (55%) 0 0	114, 204, 278, 301	0
11	AK	117/117 (100%)	0.81	15 (12%) 3 2	47, 117, 196, 238	0
11	CK	117/117 (100%)	0.22	5 (4%) 35 22	68, 117, 175, 239	0
12	AL	123/123 (100%)	-0.18	1 (0%) 86 78	24, 57, 121, 180	0
12	CL	123/123 (100%)	0.44	7 (5%) 23 13	44, 89, 144, 226	0
13	AM	114/114 (100%)	0.63	15 (13%) 3 2	90, 158, 240, 281	0
14	AN	96/100 (96%)	0.44	12 (12%) 3 2	76, 122, 214, 271	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
14	CN	95/100 (95%)	2.51	44 (46%) 0 0	123, 239, 369, 399	0
15	AO	88/88 (100%)	-0.42	0 100 100	40, 81, 123, 187	0
15	CO	88/88 (100%)	-0.00	0 100 100	76, 122, 190, 265	0
16	AP	82/82 (100%)	0.47	8 (9%) 7 4	46, 79, 155, 228	0
17	AQ	80/80 (100%)	0.38	6 (7%) 14 8	36, 79, 146, 244	0
17	CQ	80/80 (100%)	0.96	10 (12%) 3 2	61, 112, 163, 194	0
18	AR	55/55 (100%)	0.20	2 (3%) 42 27	60, 92, 174, 242	0
18	CR	55/55 (100%)	-0.01	0 100 100	48, 91, 159, 236	0
19	AS	79/79 (100%)	1.23	22 (27%) 0 0	95, 156, 236, 256	0
19	CS	79/79 (100%)	2.85	45 (56%) 0 0	206, 416, 490, 515	0
20	AT	85/85 (100%)	-0.26	0 100 100	46, 83, 124, 174	0
20	CT	85/85 (100%)	1.06	17 (20%) 1 1	76, 142, 200, 234	0
21	AU	51/51 (100%)	1.82	21 (41%) 0 0	91, 152, 216, 243	0
21	CU	51/51 (100%)	0.50	3 (5%) 22 13	82, 115, 208, 290	0
22	BA	2854/2903 (98%)	-0.56	38 (1%) 77 65	7, 31, 162, 401	0
23	BB	118/118 (100%)	-0.70	0 100 100	20, 45, 78, 115	0
24	BC	271/271 (100%)	-0.37	5 (1%) 68 55	13, 41, 96, 201	0
24	DC	271/271 (100%)	0.61	29 (10%) 6 3	45, 101, 160, 200	0
25	BD	209/209 (100%)	-0.48	0 100 100	7, 29, 80, 144	0
25	DD	209/209 (100%)	0.92	37 (17%) 1 1	60, 123, 193, 270	0
26	BE	201/201 (100%)	-0.37	0 100 100	7, 42, 105, 189	0
26	DE	201/201 (100%)	1.85	72 (35%) 0 0	68, 254, 429, 475	0
27	BF	177/177 (100%)	0.03	5 (2%) 53 37	33, 78, 142, 205	0
28	BG	176/176 (100%)	-0.12	2 (1%) 80 69	23, 62, 124, 215	0
28	DG	176/176 (100%)	2.07	80 (45%) 0 0	79, 207, 297, 363	0
29	BH	149/149 (100%)	3.00	61 (40%) 0 0	41, 178, 274, 301	0
29	DH	149/149 (100%)	2.64	63 (42%) 0 0	93, 182, 270, 305	0
30	BI	141/141 (100%)	2.33	64 (45%) 0 0	171, 257, 316, 355	0
30	DI	141/141 (100%)	3.92	101 (71%) 0 0	227, 344, 382, 400	0
31	BJ	142/142 (100%)	-0.55	0 100 100	9, 23, 68, 127	0
31	DJ	142/142 (100%)	0.62	15 (10%) 6 3	63, 122, 184, 223	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
32	BK	122/122 (100%)	-0.51	0 100 100	14, 31, 84, 254	0
32	DK	122/122 (100%)	0.78	18 (14%) 2 1	57, 106, 172, 204	0
33	BL	143/143 (100%)	-0.53	0 100 100	9, 37, 80, 126	0
33	DL	143/143 (100%)	1.53	45 (31%) 0 0	68, 176, 296, 329	0
34	BM	136/136 (100%)	-0.56	0 100 100	9, 29, 71, 133	0
34	DM	136/136 (100%)	0.84	19 (13%) 2 1	47, 126, 187, 223	0
35	BN	120/120 (100%)	-0.55	0 100 100	10, 25, 48, 123	0
35	DN	120/120 (100%)	1.56	42 (35%) 0 0	90, 149, 231, 305	0
36	BO	116/116 (100%)	-0.33	0 100 100	28, 49, 93, 126	0
36	DO	116/116 (100%)	1.51	35 (30%) 0 0	132, 176, 238, 280	0
37	BP	114/114 (100%)	-0.37	1 (0%) 84 75	17, 39, 95, 184	0
37	DP	114/114 (100%)	1.07	22 (19%) 1 1	63, 122, 187, 204	0
38	BQ	117/117 (100%)	-0.64	0 100 100	7, 20, 46, 100	0
38	DQ	117/117 (100%)	0.99	21 (17%) 1 1	78, 127, 221, 298	0
39	BR	103/103 (100%)	-0.51	1 (0%) 82 72	7, 34, 78, 139	0
39	DR	103/103 (100%)	2.41	50 (48%) 0 0	80, 157, 275, 306	0
40	BS	110/110 (100%)	-0.58	0 100 100	8, 23, 56, 172	0
40	DS	110/110 (100%)	1.70	40 (36%) 0 0	69, 142, 254, 323	0
41	BT	93/93 (100%)	-0.12	2 (2%) 62 48	22, 53, 135, 194	0
41	DT	93/93 (100%)	2.14	38 (40%) 0 0	125, 241, 359, 398	0
42	BU	102/102 (100%)	-0.11	1 (0%) 82 72	22, 54, 111, 237	0
42	DU	102/102 (100%)	3.84	64 (62%) 0 0	135, 334, 460, 561	0
43	BV	94/94 (100%)	-0.30	0 100 100	18, 47, 89, 149	0
43	DV	94/94 (100%)	1.09	20 (21%) 0 1	109, 156, 208, 233	0
44	BW	79/79 (100%)	-0.19	2 (2%) 57 43	13, 36, 90, 194	0
44	DW	79/79 (100%)	2.00	35 (44%) 0 0	99, 166, 250, 315	0
45	BX	77/77 (100%)	-0.43	0 100 100	17, 42, 87, 113	0
45	DX	77/77 (100%)	0.78	12 (15%) 2 1	72, 122, 190, 222	0
46	BY	63/63 (100%)	-0.18	1 (1%) 72 59	34, 73, 121, 155	0
46	DY	63/63 (100%)	1.65	20 (31%) 0 0	159, 374, 464, 494	0
47	BZ	58/58 (100%)	-0.55	0 100 100	7, 26, 61, 84	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
47	DZ	58/58 (100%)	0.60	5 (8%) 10 5	80, 142, 228, 257	0
48	B0	56/56 (100%)	-0.71	0 100 100	6, 26, 80, 127	0
48	D0	56/56 (100%)	1.28	12 (21%) 0 1	75, 148, 244, 284	0
49	B1	50/50 (100%)	0.72	3 (6%) 21 12	42, 66, 121, 173	0
49	D1	50/50 (100%)	2.09	24 (48%) 0 0	114, 179, 216, 264	0
50	B2	46/46 (100%)	-0.60	0 100 100	11, 27, 56, 164	0
50	D2	46/46 (100%)	1.27	9 (19%) 1 1	79, 130, 179, 205	0
51	B3	64/64 (100%)	-0.59	0 100 100	11, 29, 53, 81	0
51	D3	64/64 (100%)	1.69	24 (37%) 0 0	85, 145, 232, 281	0
52	B4	38/38 (100%)	0.17	1 (2%) 56 40	29, 53, 95, 103	0
52	D4	38/38 (100%)	2.60	24 (63%) 0 0	87, 165, 229, 248	0
53	CA	1530/1530 (100%)	-0.10	38 (2%) 57 43	43, 110, 301, 420	0
54	CG	150/150 (100%)	2.22	70 (46%) 0 0	101, 233, 303, 344	0
55	CM	113/113 (100%)	2.49	63 (55%) 0 0	226, 447, 522, 562	0
56	CP	80/80 (100%)	0.92	16 (20%) 1 1	49, 105, 165, 226	0
57	DA	2841/2904 (97%)	0.17	82 (2%) 51 36	51, 132, 279, 491	0
58	DB	117/117 (100%)	-0.23	0 100 100	107, 180, 240, 264	0
59	DF	178/178 (100%)	2.38	101 (56%) 0 0	175, 239, 286, 345	0
All	All	20431/20552 (99%)	0.31	2121 (10%) 6 4	6, 103, 285, 562	0

The worst 5 of 2121 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
29	DH	92	GLY	21.7
14	CN	33	VAL	20.2
29	DH	124	THR	20.0
30	DI	51	GLY	19.6
29	DH	91	PHE	17.2

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
60	MG	DA	3124	1/1	0.10	0.50	211,211,211,211	0
60	MG	DA	3025	1/1	0.12	1.43	253,253,253,253	0
60	MG	DA	3063	1/1	0.26	0.97	305,305,305,305	0
60	MG	DA	3062	1/1	0.27	2.37	262,262,262,262	0
60	MG	DA	3130	1/1	0.41	1.45	305,305,305,305	0
60	MG	DA	3019	1/1	0.48	0.89	252,252,252,252	0
60	MG	DA	3061	1/1	0.49	0.61	210,210,210,210	0
60	MG	DA	3037	1/1	0.50	0.18	203,203,203,203	0
60	MG	CA	1602	1/1	0.54	0.17	131,131,131,131	0
60	MG	DA	3105	1/1	0.54	0.23	305,305,305,305	0
60	MG	DA	3083	1/1	0.55	0.10	176,176,176,176	0
60	MG	DA	3127	1/1	0.56	1.91	274,274,274,274	0
60	MG	DE	301	1/1	0.58	0.31	191,191,191,191	0
60	MG	DA	3117	1/1	0.61	0.12	99,99,99,99	0
60	MG	DA	3026	1/1	0.62	0.20	139,139,139,139	0
60	MG	DA	3085	1/1	0.62	0.16	127,127,127,127	0
60	MG	DA	3075	1/1	0.63	0.51	229,229,229,229	0
60	MG	DA	3048	1/1	0.63	0.16	243,243,243,243	0
60	MG	DA	3011	1/1	0.63	0.27	215,215,215,215	0
60	MG	DJ	201	1/1	0.65	1.44	331,331,331,331	0
60	MG	DA	3044	1/1	0.66	0.13	230,230,230,230	0
60	MG	DA	3002	1/1	0.67	0.39	229,229,229,229	0
60	MG	CA	1630	1/1	0.69	0.12	176,176,176,176	0
60	MG	DA	3090	1/1	0.70	0.20	209,209,209,209	0
60	MG	DA	3077	1/1	0.71	0.79	259,259,259,259	0
60	MG	DA	3030	1/1	0.72	0.20	66,66,66,66	0
60	MG	BA	3054	1/1	0.72	0.21	214,214,214,214	0
60	MG	DA	3122	1/1	0.72	0.11	155,155,155,155	0
60	MG	DA	3008	1/1	0.72	0.23	153,153,153,153	0
60	MG	DA	3072	1/1	0.73	0.12	193,193,193,193	0
60	MG	DA	3107	1/1	0.73	0.60	201,201,201,201	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
60	MG	BA	3068	1/1	0.73	0.11	174,174,174,174	0
60	MG	DA	3007	1/1	0.74	0.50	188,188,188,188	0
60	MG	DA	3133	1/1	0.74	0.26	241,241,241,241	0
60	MG	DA	3108	1/1	0.74	0.31	123,123,123,123	0
60	MG	DA	3073	1/1	0.74	1.21	276,276,276,276	0
60	MG	DA	3132	1/1	0.75	0.24	225,225,225,225	0
60	MG	DA	3006	1/1	0.76	0.12	149,149,149,149	0
60	MG	CA	1629	1/1	0.76	0.20	214,214,214,214	0
60	MG	DA	3110	1/1	0.76	0.24	174,174,174,174	0
60	MG	DA	3017	1/1	0.76	0.23	147,147,147,147	0
60	MG	DA	3041	1/1	0.77	0.20	133,133,133,133	0
60	MG	DA	3109	1/1	0.77	0.33	169,169,169,169	0
60	MG	CA	1622	1/1	0.77	0.12	196,196,196,196	0
60	MG	AN	201	1/1	0.77	0.20	219,219,219,219	0
60	MG	DA	3023	1/1	0.78	0.18	90,90,90,90	0
60	MG	DA	3013	1/1	0.78	0.36	209,209,209,209	0
60	MG	CA	1615	1/1	0.78	0.18	243,243,243,243	0
60	MG	CA	1618	1/1	0.78	0.17	141,141,141,141	0
60	MG	DA	3082	1/1	0.79	0.11	214,214,214,214	0
60	MG	BA	3135	1/1	0.79	0.38	204,204,204,204	0
60	MG	AA	1610	1/1	0.79	0.08	200,200,200,200	0
60	MG	CA	1623	1/1	0.80	0.12	79,79,79,79	0
60	MG	CA	1617	1/1	0.80	0.14	205,205,205,205	0
60	MG	DA	3027	1/1	0.80	0.54	277,277,277,277	0
60	MG	CA	1628	1/1	0.81	0.34	259,259,259,259	0
60	MG	BB	201	1/1	0.81	0.22	246,246,246,246	0
60	MG	DA	3024	1/1	0.81	0.14	147,147,147,147	0
60	MG	CA	1601	1/1	0.82	0.08	123,123,123,123	0
60	MG	DA	3005	1/1	0.82	0.43	280,280,280,280	0
60	MG	CA	1616	1/1	0.82	0.35	279,279,279,279	0
60	MG	BA	3024	1/1	0.82	0.35	206,206,206,206	0
60	MG	BA	3058	1/1	0.83	0.18	106,106,106,106	0
60	MG	DA	3125	1/1	0.83	0.10	132,132,132,132	0
60	MG	DA	3098	1/1	0.83	0.22	218,218,218,218	0
60	MG	BA	3086	1/1	0.83	0.20	144,144,144,144	0
60	MG	DA	3028	1/1	0.84	0.39	195,195,195,195	0
60	MG	DA	3050	1/1	0.84	0.17	89,89,89,89	0
60	MG	DA	3056	1/1	0.84	0.37	243,243,243,243	0
60	MG	CA	1610	1/1	0.84	0.09	220,220,220,220	0
60	MG	DA	3032	1/1	0.84	0.19	193,193,193,193	0
60	MG	DA	3046	1/1	0.84	0.17	152,152,152,152	0
60	MG	BA	3097	1/1	0.85	0.15	182,182,182,182	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
60	MG	AA	1618	1/1	0.85	0.68	217,217,217,217	0
60	MG	CA	1612	1/1	0.85	0.26	133,133,133,133	0
60	MG	DA	3070	1/1	0.85	0.20	61,61,61,61	0
60	MG	BA	3092	1/1	0.86	0.07	30,30,30,30	0
60	MG	DA	3126	1/1	0.86	0.17	129,129,129,129	0
60	MG	DA	3001	1/1	0.86	0.12	149,149,149,149	0
60	MG	DA	3040	1/1	0.86	0.21	120,120,120,120	0
60	MG	DA	3074	1/1	0.87	0.45	239,239,239,239	0
60	MG	DA	3091	1/1	0.87	0.16	167,167,167,167	0
60	MG	DA	3068	1/1	0.87	0.28	225,225,225,225	0
60	MG	DA	3103	1/1	0.87	0.16	36,36,36,36	0
60	MG	DA	3003	1/1	0.87	0.97	253,253,253,253	0
60	MG	CA	1642	1/1	0.88	0.07	121,121,121,121	0
60	MG	CA	1606	1/1	0.88	0.14	77,77,77,77	0
60	MG	CA	1632	1/1	0.88	0.17	143,143,143,143	0
60	MG	DA	3087	1/1	0.88	0.15	178,178,178,178	0
60	MG	DA	3045	1/1	0.88	0.14	76,76,76,76	0
60	MG	DA	3057	1/1	0.88	0.39	257,257,257,257	0
60	MG	DA	3112	1/1	0.89	0.08	114,114,114,114	0
60	MG	BA	3069	1/1	0.89	0.19	223,223,223,223	0
60	MG	DA	3119	1/1	0.89	0.22	84,84,84,84	0
60	MG	DA	3012	1/1	0.89	0.12	57,57,57,57	0
60	MG	BA	3044	1/1	0.89	0.16	56,56,56,56	0
60	MG	DA	3004	1/1	0.89	0.16	86,86,86,86	0
60	MG	DA	3101	1/1	0.89	0.11	73,73,73,73	0
60	MG	CA	1614	1/1	0.89	0.65	271,271,271,271	0
60	MG	CA	1640	1/1	0.89	0.29	171,171,171,171	0
60	MG	DA	3079	1/1	0.89	0.13	149,149,149,149	0
60	MG	AA	1603	1/1	0.89	0.10	131,131,131,131	0
60	MG	CA	1608	1/1	0.89	0.22	82,82,82,82	0
60	MG	DA	3010	1/1	0.89	0.65	261,261,261,261	0
60	MG	DA	3069	1/1	0.90	0.12	93,93,93,93	0
60	MG	AA	1614	1/1	0.90	0.54	201,201,201,201	0
60	MG	DA	3071	1/1	0.90	0.09	136,136,136,136	0
60	MG	CA	1634	1/1	0.90	0.16	200,200,200,200	0
60	MG	DA	3014	1/1	0.90	0.40	177,177,177,177	0
60	MG	DA	3029	1/1	0.90	0.17	135,135,135,135	0
60	MG	AA	1617	1/1	0.90	0.13	111,111,111,111	0
60	MG	BA	3004	1/1	0.90	0.13	150,150,150,150	0
60	MG	DA	3022	1/1	0.90	0.17	118,118,118,118	0
60	MG	BA	3103	1/1	0.90	0.20	8,8,8,8	0
60	MG	DB	201	1/1	0.90	0.12	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
60	MG	BA	3117	1/1	0.90	0.09	79,79,79,79	0
60	MG	BA	3132	1/1	0.90	0.40	145,145,145,145	0
60	MG	CA	1611	1/1	0.91	0.18	116,116,116,116	0
60	MG	DA	3086	1/1	0.91	0.10	185,185,185,185	0
60	MG	BA	3022	1/1	0.91	0.11	20,20,20,20	0
60	MG	CA	1607	1/1	0.91	0.21	222,222,222,222	0
60	MG	DA	3121	1/1	0.91	0.15	114,114,114,114	0
60	MG	AA	1627	1/1	0.91	0.17	165,165,165,165	0
60	MG	DA	3094	1/1	0.91	0.21	98,98,98,98	0
60	MG	DA	3095	1/1	0.91	0.15	110,110,110,110	0
60	MG	DA	3096	1/1	0.91	0.29	180,180,180,180	0
60	MG	DA	3058	1/1	0.91	0.10	204,204,204,204	0
60	MG	DA	3129	1/1	0.91	0.62	271,271,271,271	0
60	MG	DA	3042	1/1	0.91	0.14	166,166,166,166	0
60	MG	DA	3043	1/1	0.91	0.22	112,112,112,112	0
60	MG	CA	1624	1/1	0.91	0.31	123,123,123,123	0
60	MG	BA	3089	1/1	0.91	0.08	39,39,39,39	0
60	MG	DC	301	1/1	0.91	0.15	134,134,134,134	0
60	MG	DA	3031	1/1	0.91	0.10	121,121,121,121	0
60	MG	DA	3084	1/1	0.91	0.26	157,157,157,157	0
60	MG	AA	1638	1/1	0.92	0.11	139,139,139,139	0
60	MG	DA	3049	1/1	0.92	0.14	150,150,150,150	0
60	MG	DA	3078	1/1	0.92	0.11	95,95,95,95	0
60	MG	BA	3094	1/1	0.92	0.07	42,42,42,42	0
60	MG	CA	1631	1/1	0.92	0.20	111,111,111,111	0
60	MG	BA	3047	1/1	0.92	0.13	112,112,112,112	0
60	MG	DA	3097	1/1	0.92	0.20	143,143,143,143	0
60	MG	AA	1639	1/1	0.92	0.06	92,92,92,92	0
60	MG	DA	3100	1/1	0.92	0.24	149,149,149,149	0
60	MG	CA	1637	1/1	0.92	0.19	140,140,140,140	0
60	MG	AA	1620	1/1	0.92	0.08	120,120,120,120	0
62	ZN	D4	101	1/1	0.92	0.09	197,197,197,197	0
60	MG	AA	1623	1/1	0.93	0.07	104,104,104,104	0
60	MG	DA	3052	1/1	0.93	0.20	105,105,105,105	0
60	MG	DA	3053	1/1	0.93	0.10	78,78,78,78	0
60	MG	BA	3087	1/1	0.93	0.12	182,182,182,182	0
60	MG	BA	3134	1/1	0.93	0.11	145,145,145,145	0
60	MG	BA	3012	1/1	0.93	0.13	5,5,5,5	0
60	MG	DA	3131	1/1	0.93	0.10	104,104,104,104	0
60	MG	DA	3060	1/1	0.93	0.07	144,144,144,144	0
60	MG	CA	1627	1/1	0.93	0.33	220,220,220,220	0
60	MG	DA	3034	1/1	0.93	0.21	156,156,156,156	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
60	MG	BA	3090	1/1	0.93	0.14	93,93,93,93	0
60	MG	DA	3120	1/1	0.93	0.14	84,84,84,84	0
60	MG	DA	3067	1/1	0.93	0.11	95,95,95,95	0
60	MG	BB	202	1/1	0.93	0.09	54,54,54,54	0
60	MG	CA	1620	1/1	0.94	0.20	209,209,209,209	0
60	MG	DA	3059	1/1	0.94	0.38	241,241,241,241	0
60	MG	DA	3123	1/1	0.94	0.14	65,65,65,65	0
60	MG	AA	1604	1/1	0.94	0.10	112,112,112,112	0
60	MG	CA	1639	1/1	0.94	0.06	148,148,148,148	0
60	MG	DA	3081	1/1	0.94	0.22	143,143,143,143	0
60	MG	DA	3102	1/1	0.94	0.16	105,105,105,105	0
60	MG	DA	3128	1/1	0.94	0.26	138,138,138,138	0
60	MG	BA	3001	1/1	0.94	0.07	84,84,84,84	0
60	MG	BA	3002	1/1	0.94	0.09	60,60,60,60	0
60	MG	BA	3003	1/1	0.94	0.13	44,44,44,44	0
60	MG	BA	3055	1/1	0.94	0.36	240,240,240,240	0
60	MG	AA	1629	1/1	0.94	0.14	227,227,227,227	0
60	MG	DA	3018	1/1	0.94	0.21	225,225,225,225	0
60	MG	AA	1622	1/1	0.94	0.16	185,185,185,185	0
60	MG	AA	1607	1/1	0.94	0.10	98,98,98,98	0
60	MG	DA	3038	1/1	0.94	0.18	163,163,163,163	0
60	MG	BA	3075	1/1	0.94	0.19	74,74,74,74	0
60	MG	BA	3082	1/1	0.95	0.17	98,98,98,98	0
60	MG	AA	1608	1/1	0.95	0.14	38,38,38,38	0
60	MG	BA	3051	1/1	0.95	0.10	48,48,48,48	0
60	MG	DA	3106	1/1	0.95	0.10	55,55,55,55	0
60	MG	AA	1630	1/1	0.95	0.14	209,209,209,209	0
60	MG	DA	3009	1/1	0.95	0.11	75,75,75,75	0
60	MG	CA	1625	1/1	0.95	0.21	160,160,160,160	0
60	MG	AA	1609	1/1	0.95	0.10	47,47,47,47	0
60	MG	DA	3076	1/1	0.95	0.08	110,110,110,110	0
60	MG	BA	3091	1/1	0.95	0.14	131,131,131,131	0
60	MG	CA	1604	1/1	0.95	0.04	65,65,65,65	0
60	MG	BA	3057	1/1	0.95	0.06	43,43,43,43	0
60	MG	DA	3016	1/1	0.95	0.12	75,75,75,75	0
60	MG	BA	3033	1/1	0.95	0.16	89,89,89,89	0
60	MG	BA	3041	1/1	0.95	0.14	12,12,12,12	0
60	MG	DA	3051	1/1	0.95	0.09	49,49,49,49	0
60	MG	BA	3007	1/1	0.95	0.10	84,84,84,84	0
60	MG	CA	1636	1/1	0.95	0.10	130,130,130,130	0
60	MG	BA	3104	1/1	0.95	0.18	27,27,27,27	0
60	MG	CA	1638	1/1	0.95	0.11	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
60	MG	BA	3114	1/1	0.95	0.15	148,148,148,148	0
60	MG	DA	3092	1/1	0.95	0.12	209,209,209,209	0
60	MG	DA	3093	1/1	0.95	0.30	166,166,166,166	0
60	MG	CA	1613	1/1	0.95	0.08	116,116,116,116	0
60	MG	CA	1641	1/1	0.95	0.18	73,73,73,73	0
60	MG	BA	3073	1/1	0.95	0.09	116,116,116,116	0
60	MG	BA	3118	1/1	0.95	0.29	136,136,136,136	0
60	MG	BA	3123	1/1	0.95	0.56	112,112,112,112	0
60	MG	BA	3124	1/1	0.95	0.16	22,22,22,22	0
60	MG	BA	3046	1/1	0.95	0.12	142,142,142,142	0
60	MG	DA	3099	1/1	0.96	0.15	96,96,96,96	0
60	MG	DA	3064	1/1	0.96	0.13	65,65,65,65	0
60	MG	DA	3066	1/1	0.96	0.12	65,65,65,65	0
60	MG	AA	1633	1/1	0.96	0.09	52,52,52,52	0
60	MG	DA	3033	1/1	0.96	0.07	91,91,91,91	0
60	MG	DA	3104	1/1	0.96	0.15	48,48,48,48	0
60	MG	AA	1635	1/1	0.96	0.21	198,198,198,198	0
60	MG	DA	3035	1/1	0.96	0.36	228,228,228,228	0
60	MG	DA	3036	1/1	0.96	0.15	111,111,111,111	0
60	MG	BB	204	1/1	0.96	0.11	30,30,30,30	0
60	MG	BA	3060	1/1	0.96	0.26	257,257,257,257	0
60	MG	AA	1636	1/1	0.96	0.18	149,149,149,149	0
60	MG	DA	3111	1/1	0.96	0.11	89,89,89,89	0
60	MG	CA	1603	1/1	0.96	0.16	140,140,140,140	0
60	MG	DA	3113	1/1	0.96	0.06	123,123,123,123	0
60	MG	BA	3100	1/1	0.96	0.17	26,26,26,26	0
60	MG	AA	1613	1/1	0.96	0.09	56,56,56,56	0
60	MG	BA	3005	1/1	0.96	0.07	60,60,60,60	0
60	MG	DA	3015	1/1	0.96	0.26	277,277,277,277	0
60	MG	DA	3080	1/1	0.96	0.25	70,70,70,70	0
60	MG	CA	1633	1/1	0.96	0.07	82,82,82,82	0
60	MG	DA	3047	1/1	0.96	0.14	82,82,82,82	0
60	MG	BA	3106	1/1	0.96	0.14	13,13,13,13	0
60	MG	BA	3111	1/1	0.96	0.13	93,93,93,93	0
60	MG	AA	1601	1/1	0.96	0.15	93,93,93,93	0
60	MG	DA	3021	1/1	0.96	0.15	169,169,169,169	0
60	MG	BA	3115	1/1	0.96	0.18	8,8,8,8	0
60	MG	BA	3078	1/1	0.96	0.07	49,49,49,49	0
60	MG	BA	3008	1/1	0.96	0.16	29,29,29,29	0
60	MG	BA	3122	1/1	0.96	0.12	25,25,25,25	0
60	MG	BA	3083	1/1	0.96	0.10	52,52,52,52	0
60	MG	BA	3010	1/1	0.96	0.09	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
60	MG	AA	1619	1/1	0.96	0.06	165,165,165,165	0
60	MG	CA	1619	1/1	0.96	0.26	243,243,243,243	0
60	MG	BA	3014	1/1	0.96	0.17	75,75,75,75	0
62	ZN	B4	101	1/1	0.96	0.05	81,81,81,81	0
60	MG	BA	3056	1/1	0.96	0.12	86,86,86,86	0
60	MG	BA	3107	1/1	0.97	0.19	8,8,8,8	0
60	MG	AA	1626	1/1	0.97	0.20	185,185,185,185	0
60	MG	BA	3076	1/1	0.97	0.06	31,31,31,31	0
60	MG	AA	1612	1/1	0.97	0.14	103,103,103,103	0
60	MG	BA	3079	1/1	0.97	0.11	20,20,20,20	0
60	MG	BA	3048	1/1	0.97	0.14	18,18,18,18	0
60	MG	DA	3114	1/1	0.97	0.24	166,166,166,166	0
60	MG	DA	3116	1/1	0.97	0.10	59,59,59,59	0
60	MG	BA	3049	1/1	0.97	0.11	72,72,72,72	0
60	MG	DA	3118	1/1	0.97	0.06	75,75,75,75	0
60	MG	BA	3084	1/1	0.97	0.13	9,9,9,9	0
60	MG	BA	3085	1/1	0.97	0.13	24,24,24,24	0
60	MG	DA	3088	1/1	0.97	0.21	102,102,102,102	0
60	MG	AA	1628	1/1	0.97	0.06	70,70,70,70	0
60	MG	BA	3015	1/1	0.97	0.07	30,30,30,30	0
60	MG	CA	1621	1/1	0.97	0.17	60,60,60,60	0
60	MG	AA	1637	1/1	0.97	0.11	34,34,34,34	0
60	MG	AA	1616	1/1	0.97	0.13	123,123,123,123	0
60	MG	BA	3030	1/1	0.97	0.13	34,34,34,34	0
60	MG	AA	1625	1/1	0.97	0.22	31,31,31,31	0
60	MG	BA	3035	1/1	0.97	0.20	241,241,241,241	0
60	MG	DA	3039	1/1	0.97	0.15	59,59,59,59	0
60	MG	BA	3061	1/1	0.97	0.12	11,11,11,11	0
60	MG	BA	3098	1/1	0.97	0.12	46,46,46,46	0
60	MG	AA	1632	1/1	0.97	0.10	53,53,53,53	0
60	MG	CA	1605	1/1	0.97	0.17	47,47,47,47	0
60	MG	BA	3009	1/1	0.97	0.15	12,12,12,12	0
60	MG	BA	3071	1/1	0.97	0.11	8,8,8,8	0
60	MG	BA	3045	1/1	0.97	0.12	13,13,13,13	0
61	CLM	BA	3136	20/20	0.97	0.20	2,26,77,92	0
60	MG	CA	1635	1/1	0.97	0.09	85,85,85,85	0
60	MG	CA	1609	1/1	0.97	0.13	71,71,71,71	0
60	MG	BA	3080	1/1	0.98	0.14	25,25,25,25	0
60	MG	BA	3081	1/1	0.98	0.04	41,41,41,41	0
60	MG	BA	3119	1/1	0.98	0.14	15,15,15,15	0
60	MG	BA	3050	1/1	0.98	0.10	12,12,12,12	0
60	MG	DA	3020	1/1	0.98	0.19	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
60	MG	AA	1641	1/1	0.98	0.16	27,27,27,27	0
60	MG	CA	1626	1/1	0.98	0.22	27,27,27,27	0
60	MG	BA	3025	1/1	0.98	0.10	38,38,38,38	0
60	MG	BA	3125	1/1	0.98	0.11	26,26,26,26	0
60	MG	DA	3065	1/1	0.98	0.12	40,40,40,40	0
60	MG	BA	3127	1/1	0.98	0.10	21,21,21,21	0
60	MG	BA	3130	1/1	0.98	0.44	257,257,257,257	0
60	MG	BA	3131	1/1	0.98	0.09	96,96,96,96	0
60	MG	BA	3027	1/1	0.98	0.12	34,34,34,34	0
60	MG	BA	3028	1/1	0.98	0.07	45,45,45,45	0
60	MG	BA	3029	1/1	0.98	0.20	10,10,10,10	0
60	MG	BA	3088	1/1	0.98	0.10	22,22,22,22	0
60	MG	DA	3115	1/1	0.98	0.19	69,69,69,69	0
60	MG	AA	1606	1/1	0.98	0.11	58,58,58,58	0
60	MG	BA	3059	1/1	0.98	0.16	147,147,147,147	0
60	MG	AA	1615	1/1	0.98	0.04	127,127,127,127	0
60	MG	AA	1611	1/1	0.98	0.10	81,81,81,81	0
60	MG	BA	3064	1/1	0.98	0.08	8,8,8,8	0
60	MG	BA	3096	1/1	0.98	0.17	59,59,59,59	0
60	MG	BA	3039	1/1	0.98	0.20	9,9,9,9	0
60	MG	BA	3011	1/1	0.98	0.08	149,149,149,149	0
60	MG	AA	1624	1/1	0.98	0.07	139,139,139,139	0
60	MG	BA	3101	1/1	0.98	0.06	105,105,105,105	0
60	MG	BA	3102	1/1	0.98	0.10	14,14,14,14	0
60	MG	AA	1634	1/1	0.98	0.07	58,58,58,58	0
60	MG	BA	3074	1/1	0.98	0.17	15,15,15,15	0
60	MG	AA	1640	1/1	0.98	0.25	189,189,189,189	0
60	MG	BA	3017	1/1	0.98	0.07	27,27,27,27	0
60	MG	BA	3108	1/1	0.98	0.17	6,6,6,6	0
60	MG	DA	3089	1/1	0.98	0.06	81,81,81,81	0
60	MG	BA	3109	1/1	0.98	0.10	105,105,105,105	0
60	MG	BA	3077	1/1	0.98	0.13	151,151,151,151	0
60	MG	BA	3112	1/1	0.98	0.16	33,33,33,33	0
60	MG	BA	3113	1/1	0.98	0.10	34,34,34,34	0
60	MG	BA	3021	1/1	0.98	0.11	15,15,15,15	0
60	MG	BA	3006	1/1	0.98	0.05	47,47,47,47	0
60	MG	DA	3054	1/1	0.98	0.13	125,125,125,125	0
60	MG	DA	3055	1/1	0.98	0.10	121,121,121,121	0
60	MG	BA	3034	1/1	0.99	0.09	9,9,9,9	0
60	MG	AA	1631	1/1	0.99	0.13	95,95,95,95	0
60	MG	BA	3120	1/1	0.99	0.06	44,44,44,44	0
60	MG	BA	3121	1/1	0.99	0.14	5,5,5,5	0

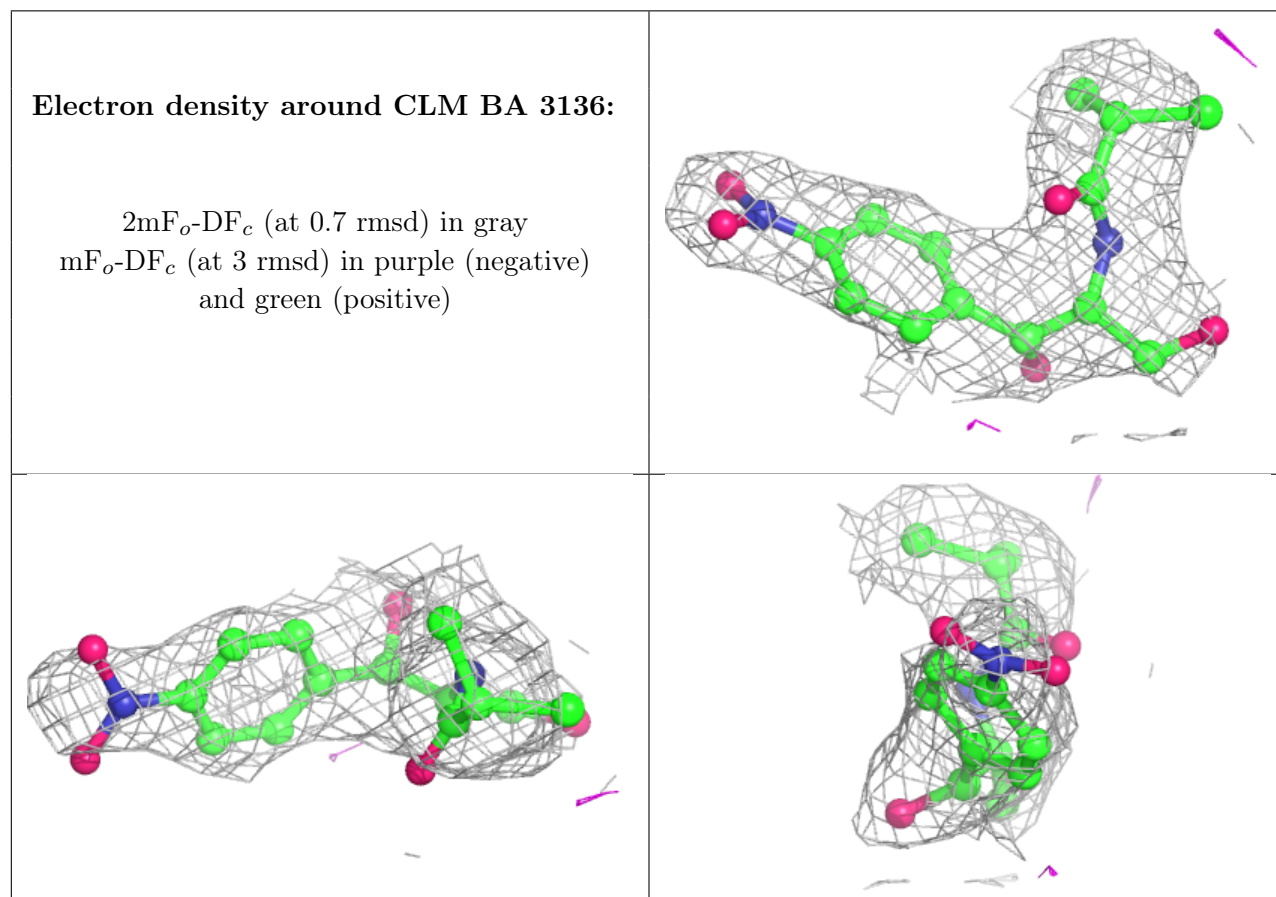
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
60	MG	BA	3036	1/1	0.99	0.15	30,30,30,30	0
60	MG	BA	3037	1/1	0.99	0.16	7,7,7,7	0
60	MG	BA	3038	1/1	0.99	0.17	21,21,21,21	0
60	MG	AA	1605	1/1	0.99	0.12	30,30,30,30	0
60	MG	BA	3126	1/1	0.99	0.14	32,32,32,32	0
60	MG	BA	3040	1/1	0.99	0.12	11,11,11,11	0
60	MG	BA	3128	1/1	0.99	0.13	6,6,6,6	0
60	MG	BA	3129	1/1	0.99	0.15	15,15,15,15	0
60	MG	BA	3065	1/1	0.99	0.15	27,27,27,27	0
60	MG	BA	3093	1/1	0.99	0.10	68,68,68,68	0
60	MG	BA	3066	1/1	0.99	0.11	14,14,14,14	0
60	MG	BA	3133	1/1	0.99	0.14	5,5,5,5	0
60	MG	BA	3095	1/1	0.99	0.12	13,13,13,13	0
60	MG	BA	3067	1/1	0.99	0.11	22,22,22,22	0
60	MG	BA	3023	1/1	0.99	0.12	8,8,8,8	0
60	MG	BA	3042	1/1	0.99	0.13	34,34,34,34	0
60	MG	BB	203	1/1	0.99	0.10	16,16,16,16	0
60	MG	BA	3099	1/1	0.99	0.10	32,32,32,32	0
60	MG	BL	201	1/1	0.99	0.07	34,34,34,34	0
60	MG	BA	3070	1/1	0.99	0.11	76,76,76,76	0
60	MG	BA	3043	1/1	0.99	0.25	19,19,19,19	0
60	MG	BA	3072	1/1	0.99	0.16	81,81,81,81	0
60	MG	BA	3013	1/1	0.99	0.18	6,6,6,6	0
60	MG	AA	1602	1/1	0.99	0.08	117,117,117,117	0
60	MG	BA	3105	1/1	0.99	0.15	11,11,11,11	0
60	MG	BA	3026	1/1	0.99	0.18	122,122,122,122	0
60	MG	AA	1642	1/1	0.99	0.09	42,42,42,42	0
60	MG	BA	3016	1/1	0.99	0.07	5,5,5,5	0
60	MG	AA	1621	1/1	0.99	0.14	35,35,35,35	0
60	MG	BA	3110	1/1	0.99	0.09	65,65,65,65	0
60	MG	BA	3019	1/1	0.99	0.15	50,50,50,50	0
60	MG	BA	3031	1/1	0.99	0.12	15,15,15,15	0
60	MG	BA	3052	1/1	0.99	0.09	12,12,12,12	0
60	MG	BA	3053	1/1	0.99	0.10	35,35,35,35	0
60	MG	BA	3032	1/1	0.99	0.16	6,6,6,6	0
60	MG	BA	3116	1/1	0.99	0.06	14,14,14,14	0
60	MG	BA	3020	1/1	0.99	0.11	21,21,21,21	0
60	MG	BA	3062	1/1	1.00	0.13	9,9,9,9	0
60	MG	BA	3063	1/1	1.00	0.12	11,11,11,11	0
60	MG	BA	3018	1/1	1.00	0.30	10,10,10,10	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers

as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



6.5 Other polymers [i](#)

There are no such residues in this entry.