



wwPDB EM Validation Summary Report ⓘ

Mar 10, 2026 – 11:42 AM UTC

PDB ID : 6FXC / pdb_00006fxc
EMDB ID : EMD-3637
Title : The cryo-EM structure of hibernating 100S ribosome dimer from pathogenic Staphylococcus aureus
Authors : Matzov, D.; Aibara, S.; Zimmerman, E.; Bashan, A.; Kidmose, R.; Amunts, A.; Yonath, A.
Deposited on : 2018-03-08
Resolution : 6.76 Å(reported)

This is a wwPDB EM 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/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

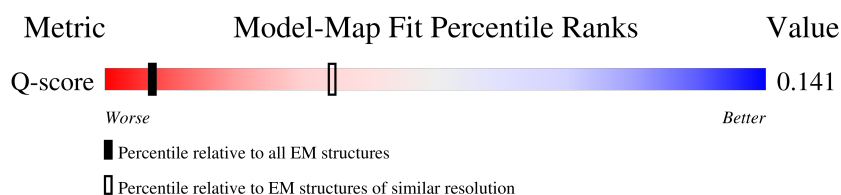
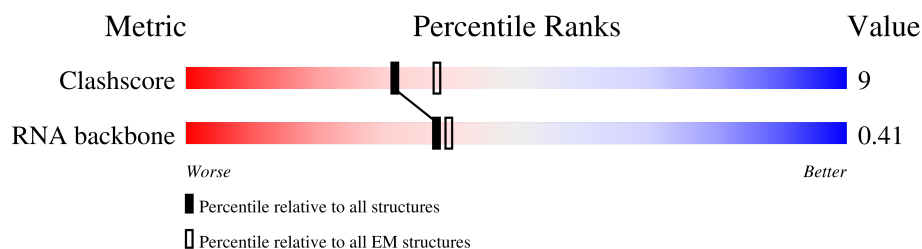
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

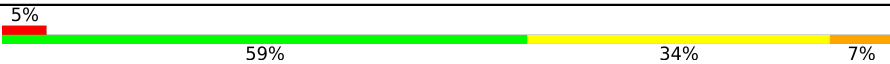
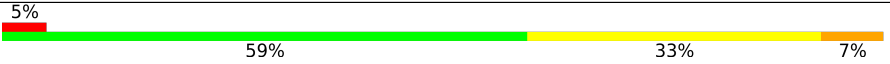
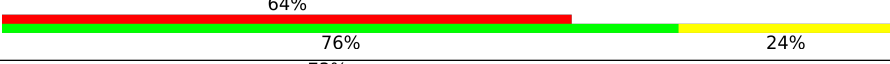
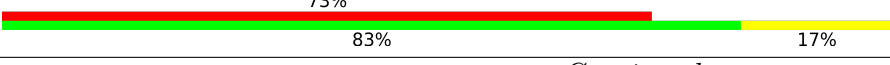
The reported resolution of this entry is 6.76 Å.

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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
RNA backbone	8273	3508	-
Q-score	-	25397	476 (6.29 - 7.25)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	Aa	1539	
1	Ba	1539	
2	Ab	226	
2	Bb	226	
3	Ac	202	

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Mol	Chain	Length	Quality of chain
3	Bc	202	73% 83%17%
4	Ad	198	41% 86%14%
4	Bd	198	41% 88%12%
5	Ae	156	74% 85%15%
5	Be	156	74% 83%16%
6	Af	95	59% 86%14%
6	Bf	95	59% 83%17%
7	Ag	152	68% 85%15%
7	Bg	152	68% 87%13%
8	Ah	131	51% 84%16%
8	Bh	131	51% 83%17%
9	Ai	127	55% 80%20%
9	Bi	127	55% 80%20%
10	Aj	97	56% 84%16%
10	Bj	97	56% 86%14%
11	Ak	114	54% 75%25%
11	Bk	114	54% 75%25%
12	Al	135	66% 81%19%
12	Bl	135	66% 80%20%
13	Am	121	49% 78%8%14%
13	Bm	121	49% 78%8%14%
14	An	60	22% 78%22%
14	Bn	60	22% 78%22%
15	Ao	88	40% 85%15%
15	Bo	88	40% 85%15%

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Mol	Chain	Length	Quality of chain
16	Ap	89	42% 83% 17%
16	Bp	89	42% 85% 15%
17	Aq	80	52% 81% 19%
17	Bq	80	54% 81% 19%
18	Ar	54	59% 76% 24%
18	Br	54	59% 80% 20%
19	As	80	32% 82% 18%
19	Bs	80	32% 82% 18%
20	At	81	33% 86% 14%
20	Bt	81	33% 89% 11%
21	Au	52	94% 94% 6%
21	Bu	52	94% 96% .
22	Av	190	57% 71% 14% 15%
22	Bv	190	57% 71% 14% 15%
23	AA	2923	7% 56% 35% 9% .
23	BA	2923	7% 57% 34% 9% .
24	AB	115	6% 74% 23% .
24	BB	115	6% 74% 23% .
25	AC	274	56% 75% 24%
25	BC	274	56% 77% 23%
26	AD	215	33% 74% 26%
26	BD	215	33% 74% 26%
27	AE	206	46% 81% 19%
27	BE	206	46% 82% 18%
28	AF	175	59% 81% 19%

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Mol	Chain	Length	Quality of chain
28	BF	175	59% 82% 18%
29	AG	175	55% 84% 16%
29	BG	175	55% 86% 14%
30	AH	145	27% 91% 9%
30	BH	145	27% 92% 8%
31	AI	122	64% 69% 30%
31	BI	122	64% 68% 31%
32	AJ	146	47% 79% 21%
32	BJ	146	47% 79% 21%
33	AK	137	36% 74% 26%
33	BK	137	36% 77% 23%
34	AL	120	31% 86% 14%
34	BL	120	31% 86% 14%
35	AM	119	30% 75% 25%
35	BM	119	30% 74% 26%
36	AN	114	46% 82% 18%
36	BN	114	46% 81% 19%
37	AO	116	20% 85% 15%
37	BO	116	20% 85% 15%
38	AP	102	42% 88% 12%
38	BP	102	42% 88% 12%
39	AQ	112	41% 84% 16%
39	BQ	112	41% 85% 15%
40	AR	89	31% 83% 17%
40	BR	89	31% 83% 17%

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Mol	Chain	Length	Quality of chain
41	AS	103	52% 79% 21%
41	BS	103	52% 79% 21%
42	AT	94	76% 91% 9%
42	BT	94	76% 89% 11%
43	AU	82	18% 85% 15%
43	BU	82	18% 84% 16%
44	AV	58	59% 84% 16%
44	BV	58	59% 84% 16%
45	AW	67	48% 84% 16%
45	BW	67	48% 85% 15%
46	AX	58	62% 83% 17%
46	BX	58	62% 83% 17%
47	AY	59	90% 92% 8%
47	BY	59	90% 92% 8%
48	AZ	48	40% 79% 21%
48	BZ	48	40% 81% 19%
49	A1	47	83% 77% 23%
49	B1	47	83% 79% 21%
50	A2	43	30% 81% 19%
50	B2	43	30% 84% 16%
51	A3	64	27% 84% 16%
51	B3	64	27% 84% 16%
52	A4	37	11% 62% 38%
52	B4	37	11% 65% 35%

2 Entry composition

There are 52 unique types of molecules in this entry. The entry contains 281510 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					AltConf	Trace
1	Aa	1539	Total	C	N	O	P	0	0
			32969	14719	6017	10694	1539		
1	Ba	1539	Total	C	N	O	P	0	0
			32969	14719	6017	10694	1539		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Ab	226	Total	C	N	O	S	0	0
			1813	1156	314	335	8		
2	Bb	226	Total	C	N	O	S	0	0
			1813	1156	314	335	8		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Ac	202	Total	C	N	O	S	0	0
			1501	945	284	271	1		
3	Bc	202	Total	C	N	O	S	0	0
			1501	945	284	271	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
4	Ad	198	Total	C	N	O	S	0	0
			1497	952	275	268	2		
4	Bd	198	Total	C	N	O	S	0	0
			1497	952	275	268	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
5	Ae	156	Total	C	N	O	S	0	0
			1145	723	211	209	2		
5	Be	156	Total	C	N	O	S	0	0
			1145	723	211	209	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Af	95	Total	C	N	O	S	0	0
			778	493	138	145	2		
6	Bf	95	Total	C	N	O	S	0	0
			778	493	138	145	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Ag	152	Total	C	N	O	S	0	0
			1161	722	218	217	4		
7	Bg	152	Total	C	N	O	S	0	0
			1161	722	218	217	4		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
8	Ah	131	Total	C	N	O	S	0	0
			1026	650	183	189	4		
8	Bh	131	Total	C	N	O	S	0	0
			1026	650	183	189	4		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Ai	127	Total	C	N	O	S	0	0
			922	576	179	166	1		
9	Bi	127	Total	C	N	O	S	0	0
			922	576	179	166	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
10	Aj	97	Total	C	N	O	S	0	0
			752	475	140	136	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
10	Bj	97	Total	C	N	O	S	0	0
			752	475	140	136	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
11	Ak	114	Total	C	N	O	S	0	0
			810	498	151	159	2		
11	Bk	114	Total	C	N	O	S	0	0
			810	498	151	159	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
12	Al	135	Total	C	N	O	S	0	0
			1037	646	211	178	2		
12	Bl	135	Total	C	N	O	S	0	0
			1037	646	211	178	2		

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

Mol	Chain	Residues	Atoms				AltConf	Trace
13	Am	104	Total	C	N	O	0	0
			727	453	139	135		
13	Bm	104	Total	C	N	O	0	0
			727	453	139	135		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
14	An	60	Total	C	N	O	S	0	0
			487	307	98	77	5		
14	Bn	60	Total	C	N	O	S	0	0
			487	307	98	77	5		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
15	Ao	88	Total	C	N	O	S	0	0
			723	448	150	124	1		
15	Bo	88	Total	C	N	O	S	0	0
			723	448	150	124	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
16	Ap	89	Total	C	N	O	S	0	0
			694	436	128	129	1		
16	Bp	89	Total	C	N	O	S	0	0
			694	436	128	129	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Aq	80	Total	C	N	O		0	0
			621	392	112	117			
17	Bq	80	Total	C	N	O		0	0
			621	392	112	117			

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

Mol	Chain	Residues	Atoms					AltConf	Trace
18	Ar	54	Total	C	N	O	S	0	0
			446	284	86	74	2		
18	Br	54	Total	C	N	O	S	0	0
			446	284	86	74	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
19	As	80	Total	C	N	O	S	0	0
			636	410	113	111	2		
19	Bs	80	Total	C	N	O	S	0	0
			636	410	113	111	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
20	At	81	Total	C	N	O	S	0	0
			591	358	117	115	1		
20	Bt	81	Total	C	N	O	S	0	0
			591	358	117	115	1		

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

Mol	Chain	Residues	Atoms				AltConf	Trace
21	Au	52	Total	C	N	O	0	0
			400	249	79	72		
21	Bu	52	Total	C	N	O	0	0
			400	249	79	72		

- Molecule 22 is a protein called Ribosome hibernation promotion factor.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	Av	162	Total	C	N	O	S	0	0
			1333	835	242	254	2		
22	Bv	162	Total	C	N	O	S	0	0
			1333	835	242	254	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
23	AA	2905	Total	C	N	O	P	0	0
			62277	27803	11387	20182	2905		
23	BA	2905	Total	C	N	O	P	0	0
			62277	27803	11387	20182	2905		

- Molecule 24 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	AB	115	Total	C	N	O	P	0	0
			2445	1094	436	801	114		
24	BB	115	Total	C	N	O	P	0	0
			2445	1094	436	801	114		

- Molecule 25 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	AC	274	Total	C	N	O	S	0	0
			2094	1303	415	371	5		
25	BC	274	Total	C	N	O	S	0	0
			2094	1303	415	371	5		

- Molecule 26 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	AD	215	Total	C	N	O	S	0	0
			1627	1018	299	305	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
26	BD	215	Total	C	N	O	S	0	0
			1627	1018	299	305	5		

- Molecule 27 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	AE	206	Total	C	N	O	S	0	0
			1572	986	288	296	2		
27	BE	206	Total	C	N	O	S	0	0
			1572	986	288	296	2		

- Molecule 28 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	AF	175	Total	C	N	O	S	0	0
			1325	837	227	255	6		
28	BF	175	Total	C	N	O	S	0	0
			1325	837	227	255	6		

- Molecule 29 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	AG	175	Total	C	N	O	S	0	0
			1263	790	239	231	3		
29	BG	175	Total	C	N	O	S	0	0
			1263	790	239	231	3		

- Molecule 30 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	AH	145	Total	C	N	O	S	0	0
			1143	714	208	218	3		
30	BH	145	Total	C	N	O	S	0	0
			1143	714	208	218	3		

- Molecule 31 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	AI	122	Total	C	N	O	S	0	0
			918	572	174	168	4		
31	BI	122	Total	C	N	O	S	0	0
			918	572	174	168	4		

- Molecule 32 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	AJ	146	Total	C	N	O	S	0	0
			1086	674	214	197	1		
32	BJ	146	Total	C	N	O	S	0	0
			1086	674	214	197	1		

- Molecule 33 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	AK	137	Total	C	N	O	S	0	0
			1071	689	203	175	4		
33	BK	137	Total	C	N	O	S	0	0
			1071	689	203	175	4		

- Molecule 34 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	AL	120	Total	C	N	O	S	0	0
			932	576	182	173	1		
34	BL	120	Total	C	N	O	S	0	0
			932	576	182	173	1		

- Molecule 35 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	AM	119	Total	C	N	O	S	0	0
			891	557	174	159	1		
35	BM	119	Total	C	N	O	S	0	0
			891	557	174	159	1		

- Molecule 36 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms				AltConf	Trace
36	AN	114	Total	C	N	O	0	0
			889	563	175	151		
36	BN	114	Total	C	N	O	0	0
			889	563	175	151		

- Molecule 37 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	AO	116	Total	C	N	O	S	0	0
			942	593	189	156	4		
37	BO	116	Total	C	N	O	S	0	0
			942	593	189	156	4		

- Molecule 38 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	AP	102	Total	C	N	O	S	0	0
			790	503	142	144	1		
38	BP	102	Total	C	N	O	S	0	0
			790	503	142	144	1		

- Molecule 39 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	AQ	112	Total	C	N	O	S	0	0
			854	534	164	153	3		
39	BQ	112	Total	C	N	O	S	0	0
			854	534	164	153	3		

- Molecule 40 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	AR	89	Total	C	N	O	S	0	0
			715	453	127	131	4		
40	BR	89	Total	C	N	O	S	0	0
			715	453	127	131	4		

- Molecule 41 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	AS	103	Total	C	N	O	S	0	0
			770	486	142	141	1		
41	BS	103	Total	C	N	O	S	0	0
			770	486	142	141	1		

- Molecule 42 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms				AltConf	Trace
42	AT	94	Total	C	N	O	0	0
			722	463	130	129		

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Mol	Chain	Residues	Atoms				AltConf	Trace
42	BT	94	Total	C	N	O	0	0
			722	463	130	129		

- Molecule 43 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms				AltConf	Trace
43	AU	82	Total	C	N	O	0	0
			622	385	122	115		
43	BU	82	Total	C	N	O	0	0
			622	385	122	115		

- Molecule 44 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms				AltConf	Trace
44	AV	58	Total	C	N	O	0	0
			445	277	96	72		
44	BV	58	Total	C	N	O	0	0
			445	277	96	72		

- Molecule 45 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms				AltConf	Trace
45	AW	67	Total	C	N	O	0	0
			541	333	102	106		
45	BW	67	Total	C	N	O	0	0
			541	333	102	106		

- Molecule 46 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				AltConf	Trace
46	AX	58	Total	C	N	O	0	0
			449	280	85	84		
46	BX	58	Total	C	N	O	0	0
			449	280	85	84		

- Molecule 47 is a protein called 50S ribosomal protein L31 type B.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	AY	59	Total	C	N	O	S	0	0
			370	225	68	76	1		
47	BY	59	Total	C	N	O	S	0	0
			370	225	68	76	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
48	AZ	48	Total	C	N	O	S	0	0
			360	222	77	59	2		
48	BZ	48	Total	C	N	O	S	0	0
			360	222	77	59	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
49	A1	47	Total	C	N	O	S	0	0
			390	238	78	70	4		
49	B1	47	Total	C	N	O	S	0	0
			390	238	78	70	4		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
50	A2	43	Total	C	N	O	S	0	0
			367	225	89	52	1		
50	B2	43	Total	C	N	O	S	0	0
			367	225	89	52	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
51	A3	64	Total	C	N	O	S	0	0
			521	324	113	82	2		
51	B3	64	Total	C	N	O	S	0	0
			521	324	113	82	2		

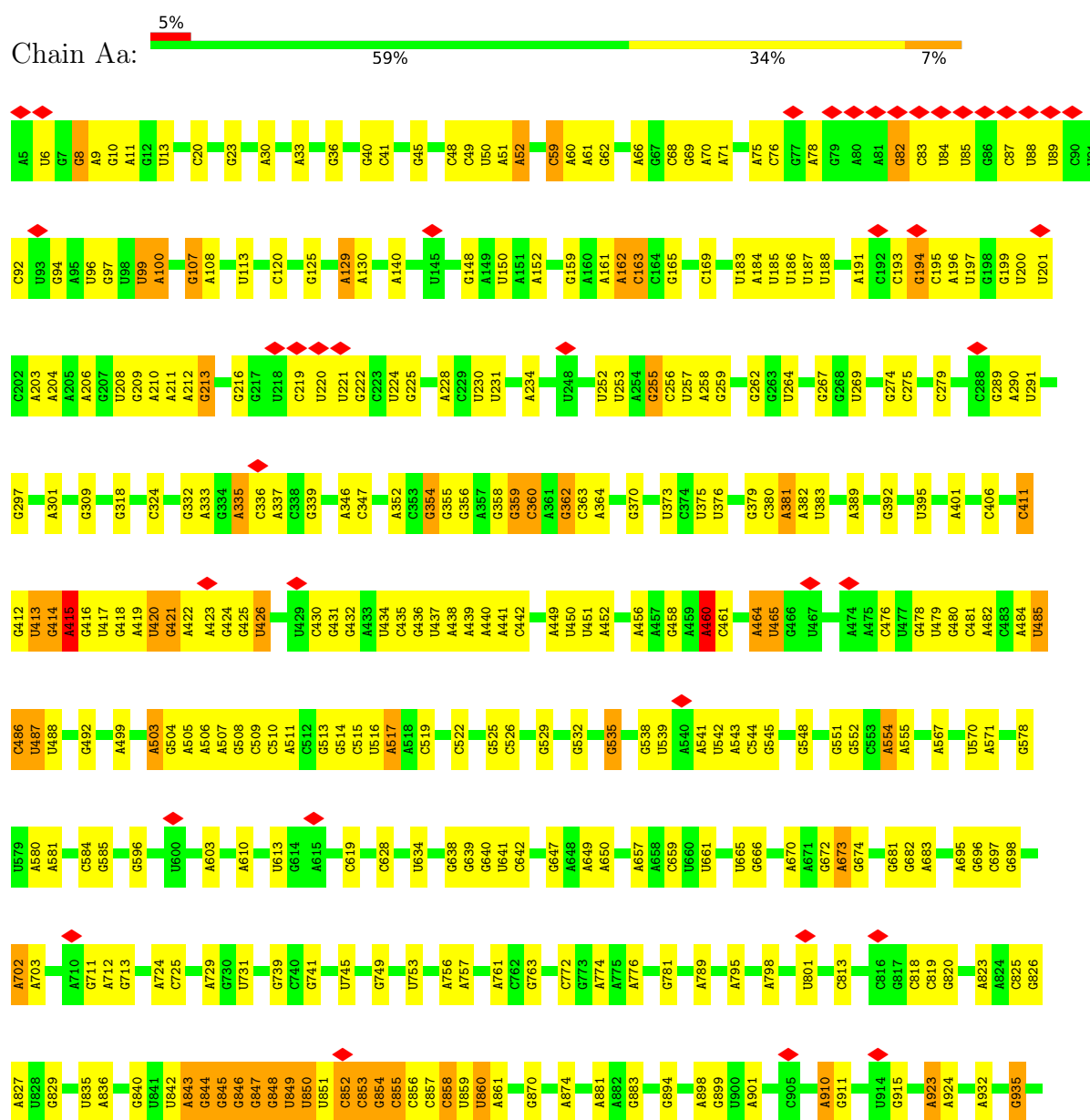
- Molecule 52 is a protein called 50S ribosomal protein L36.

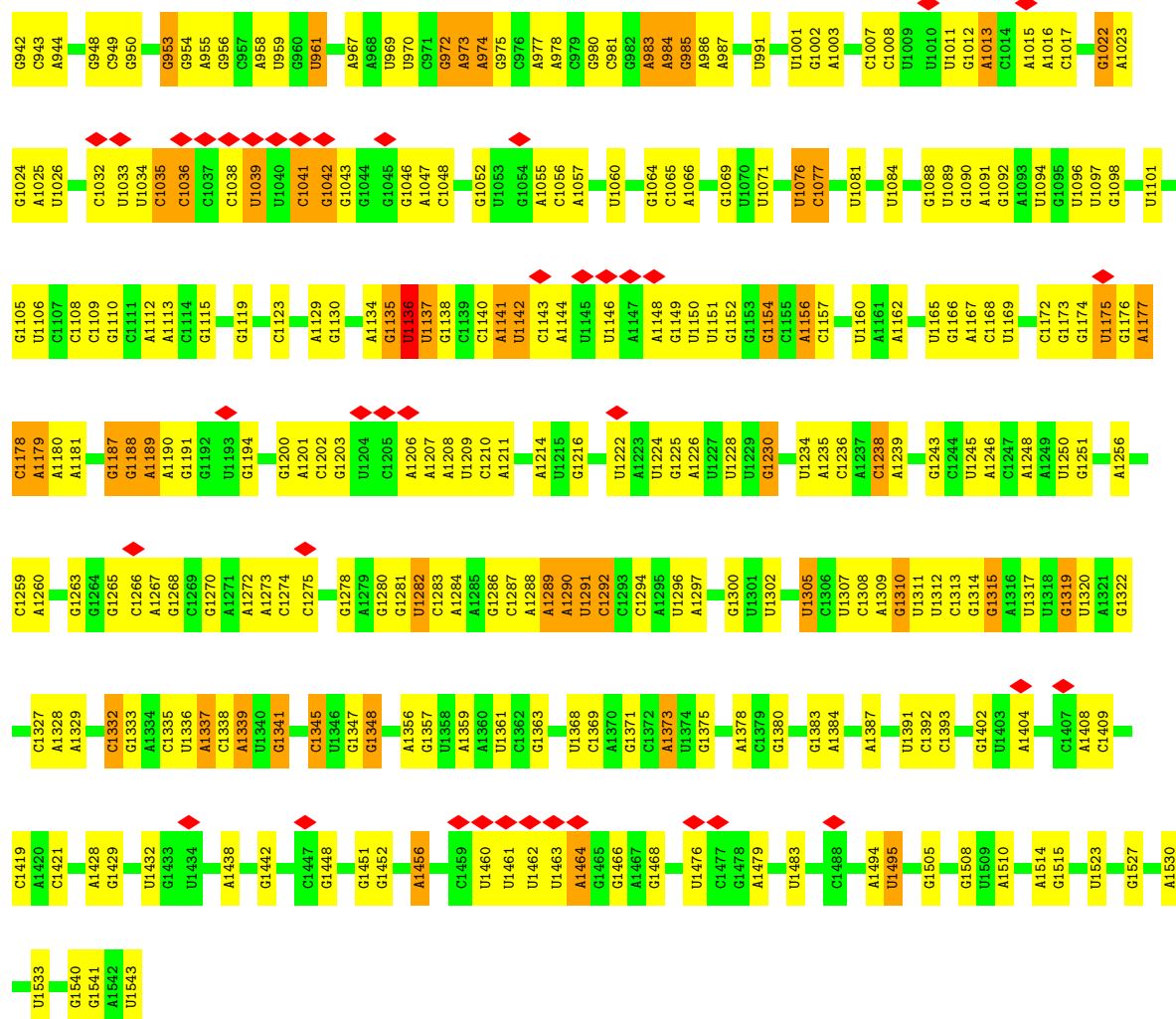
Mol	Chain	Residues	Atoms					AltConf	Trace
52	A4	37	Total	C	N	O	S	0	0
			295	186	60	44	5		
52	B4	37	Total	C	N	O	S	0	0
			295	186	60	44	5		

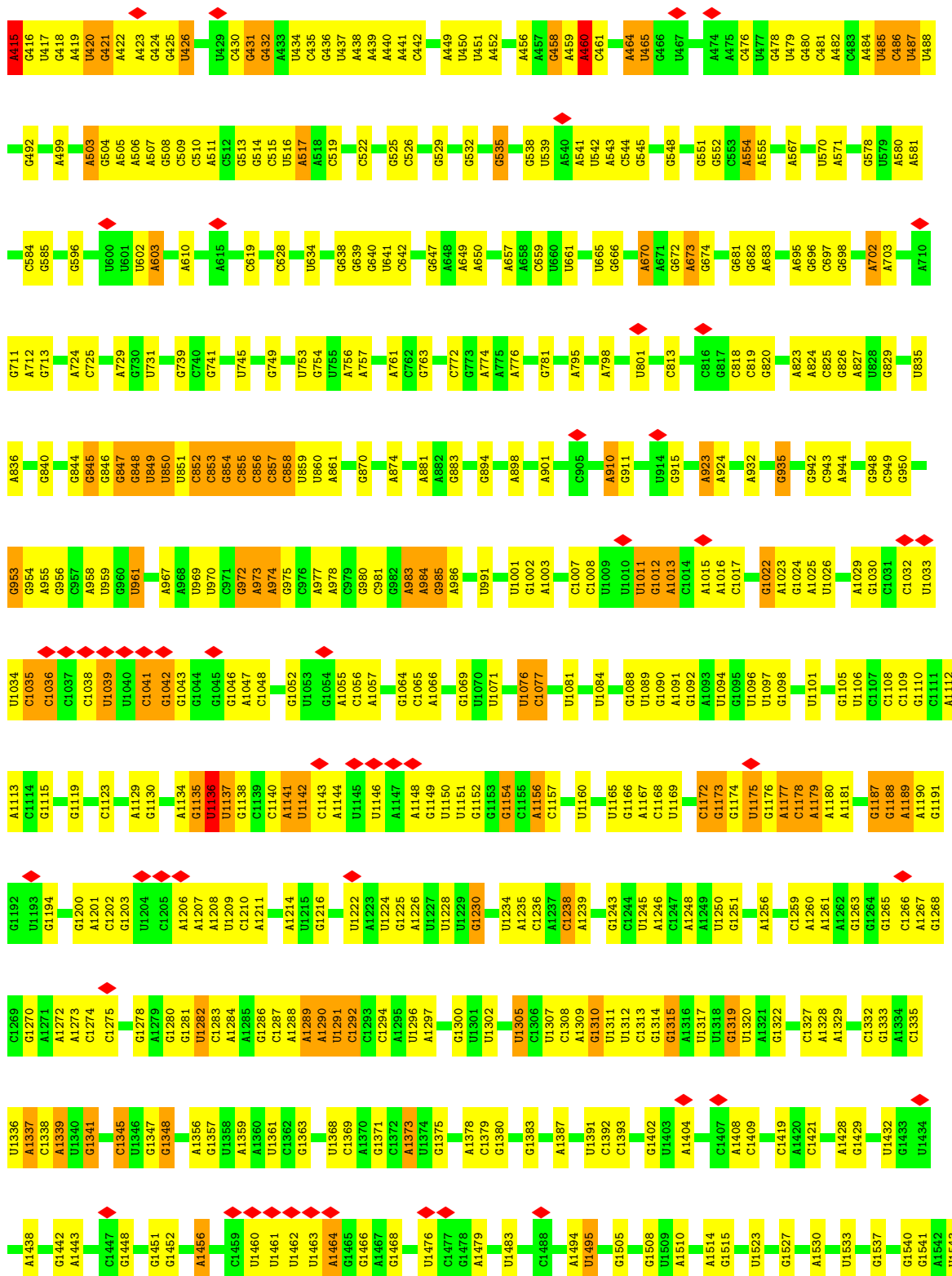
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

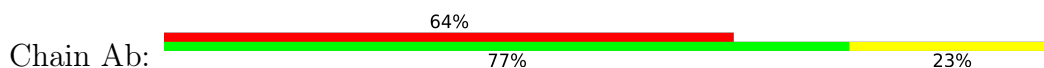
• Molecule 1: 16S ribosomal RNA

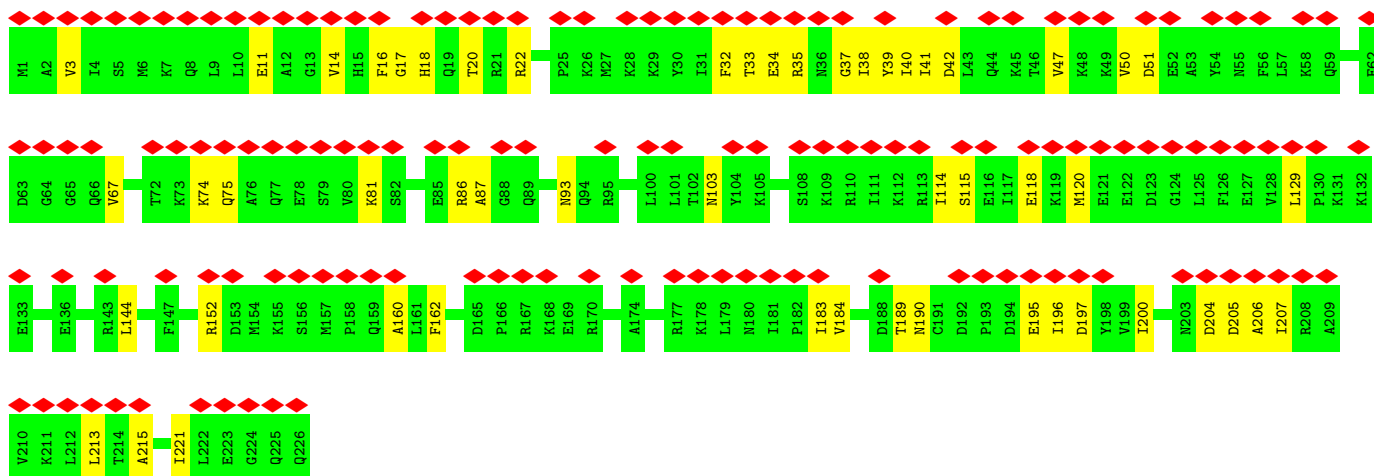




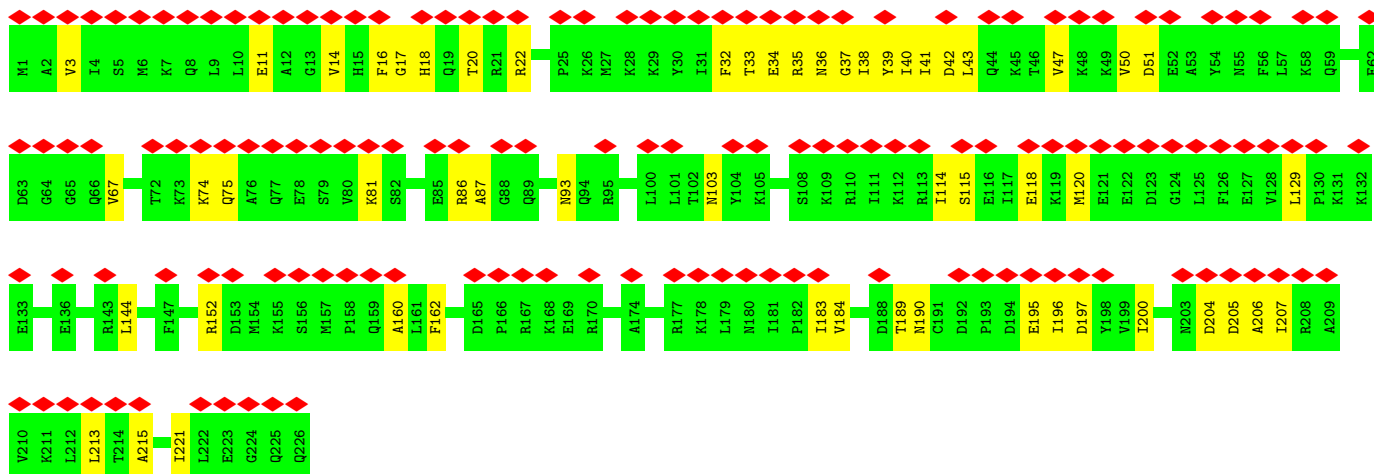
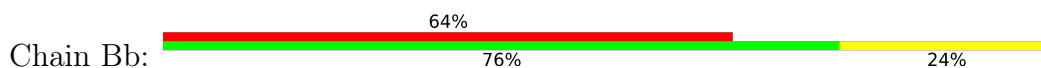


• Molecule 2: 30S ribosomal protein S2

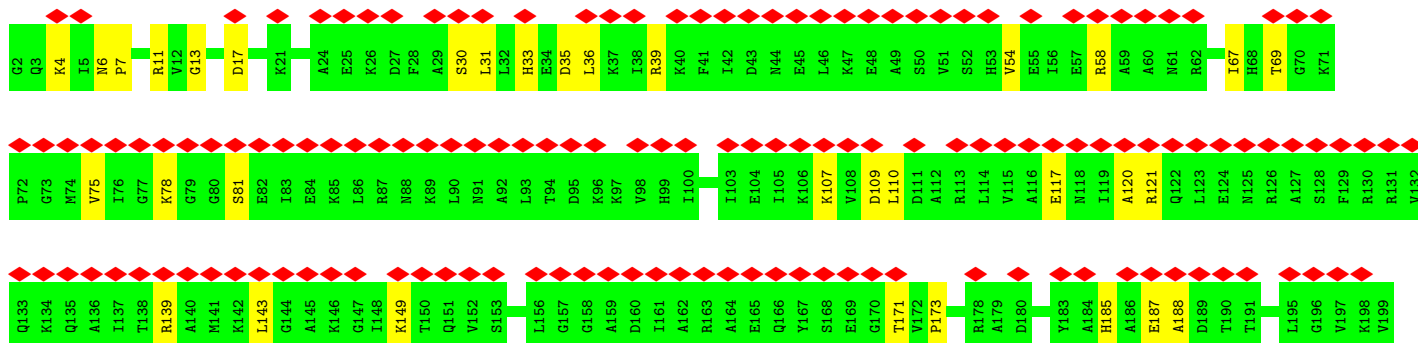
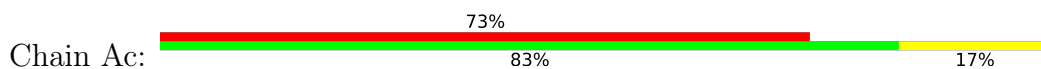




• Molecule 2: 30S ribosomal protein S2

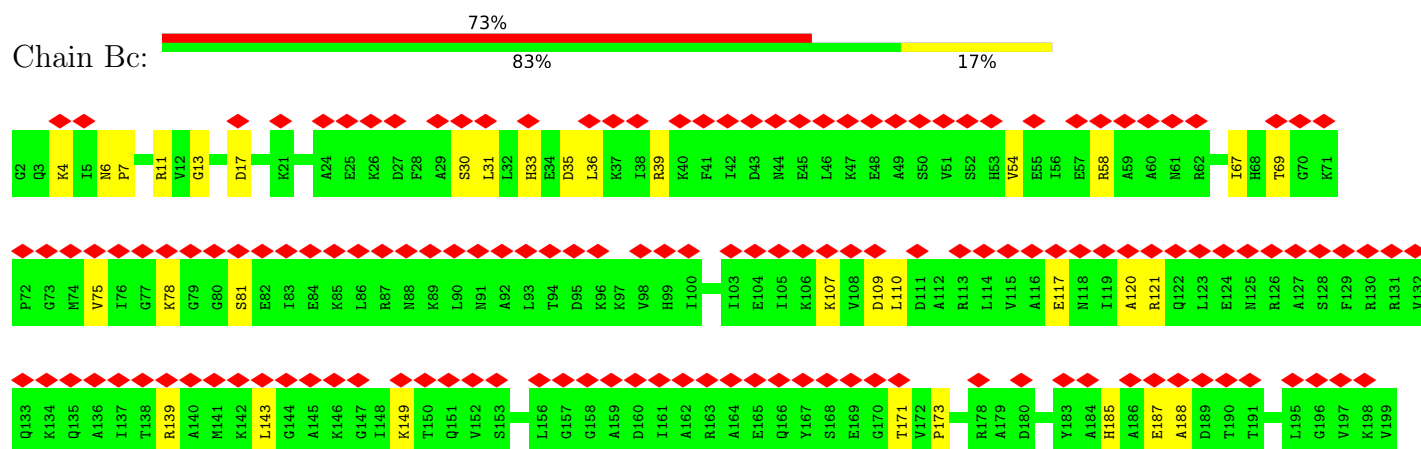


• Molecule 3: 30S ribosomal protein S3

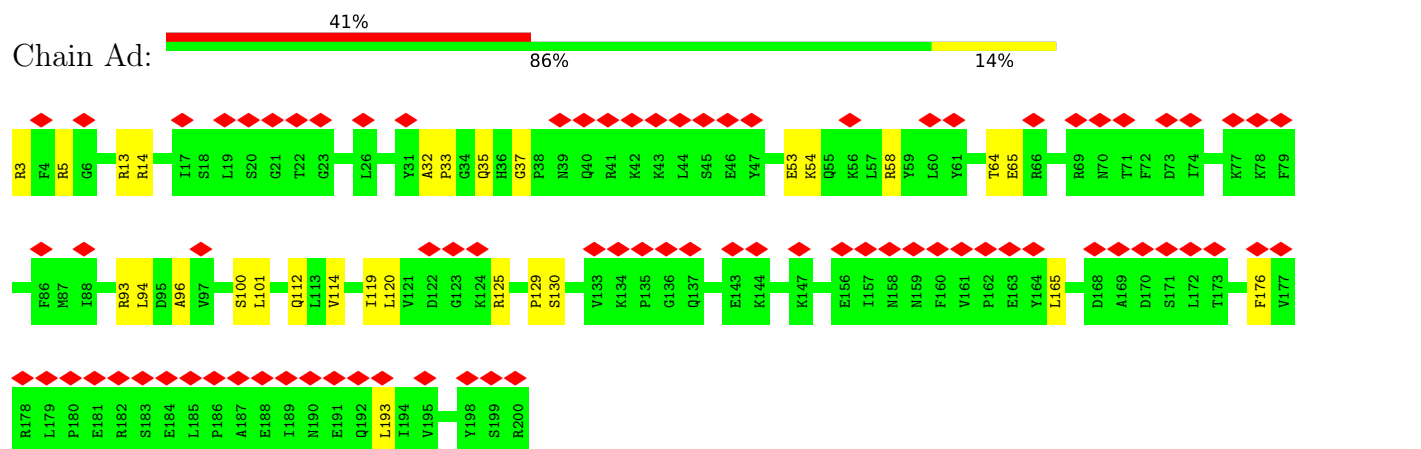




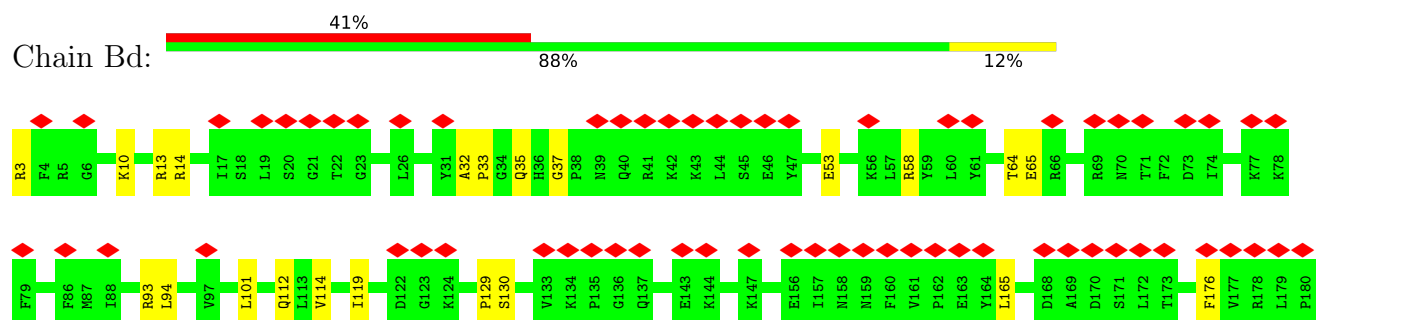
• Molecule 3: 30S ribosomal protein S3

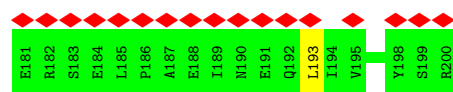


• Molecule 4: 30S ribosomal protein S4

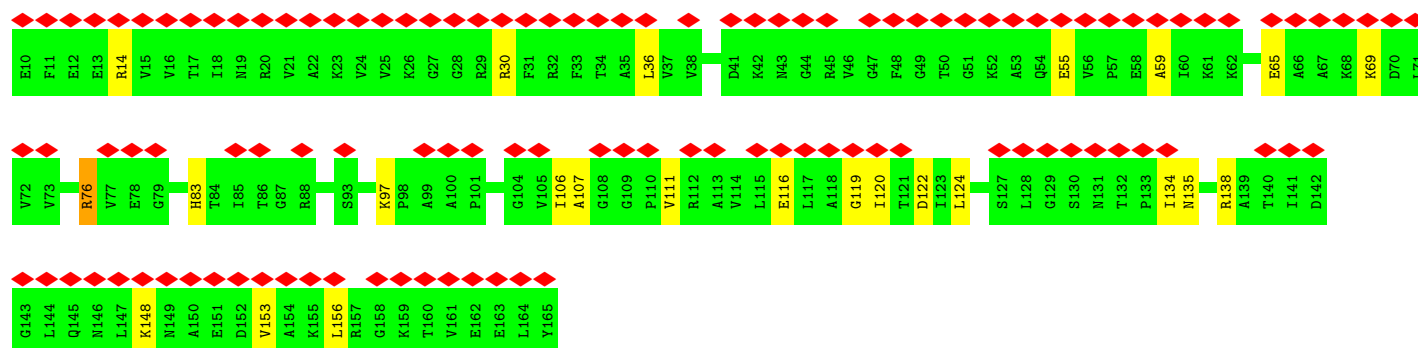
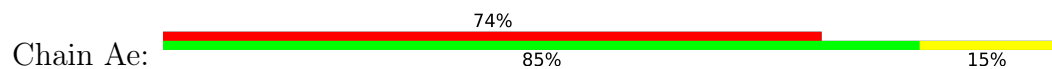


• Molecule 4: 30S ribosomal protein S4

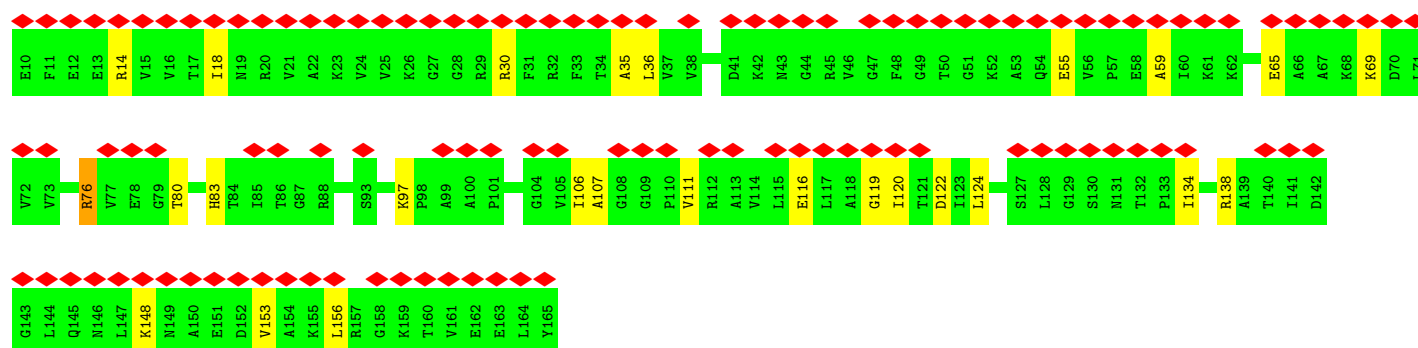
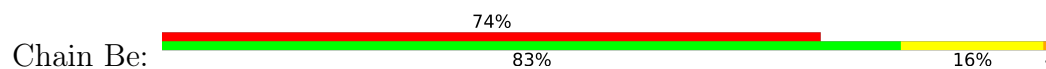




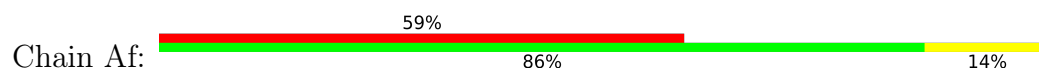
• Molecule 5: 30S ribosomal protein S5



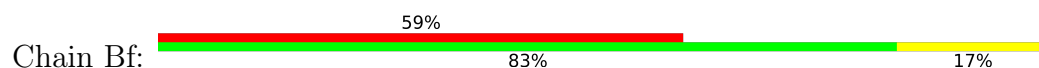
• Molecule 5: 30S ribosomal protein S5

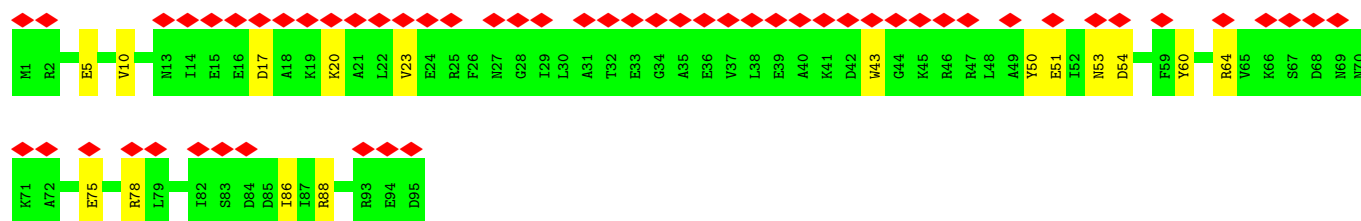


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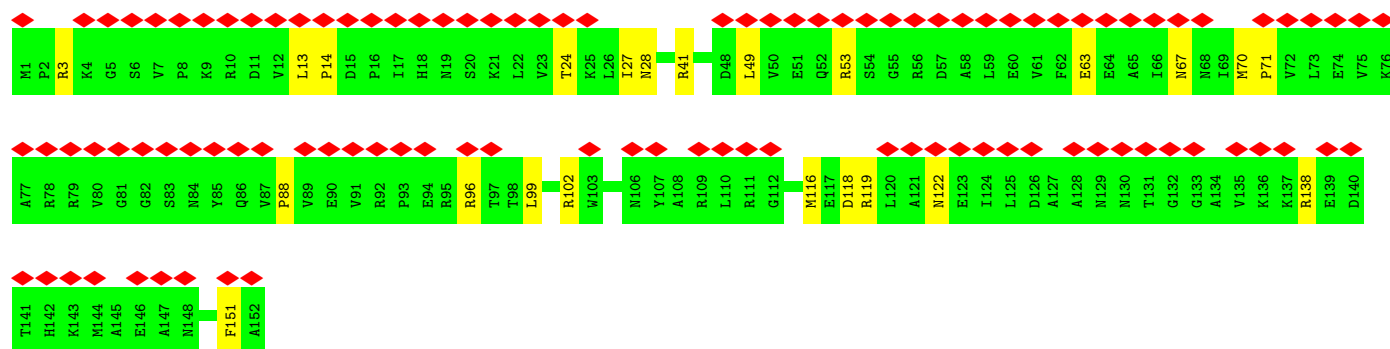
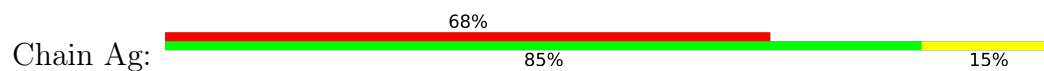


• Molecule 6: 30S ribosomal protein S6

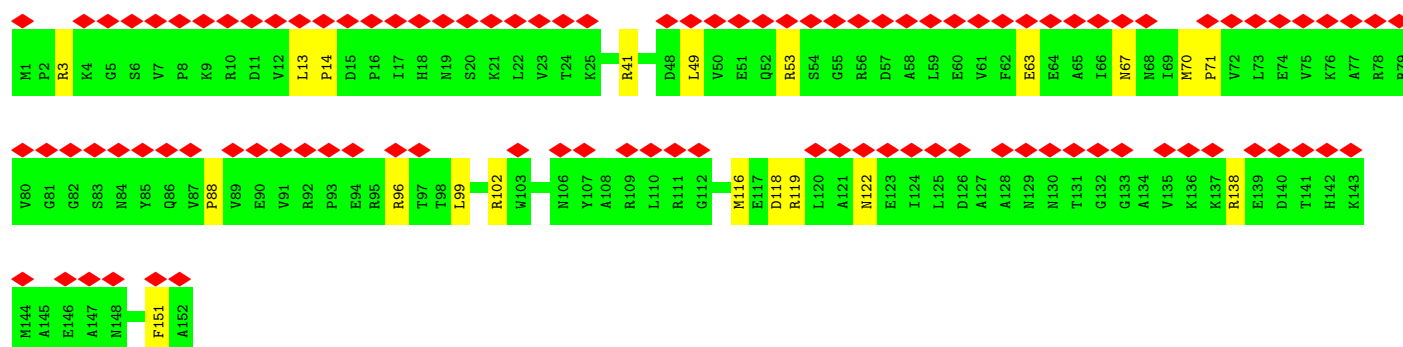
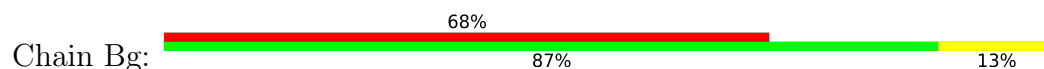




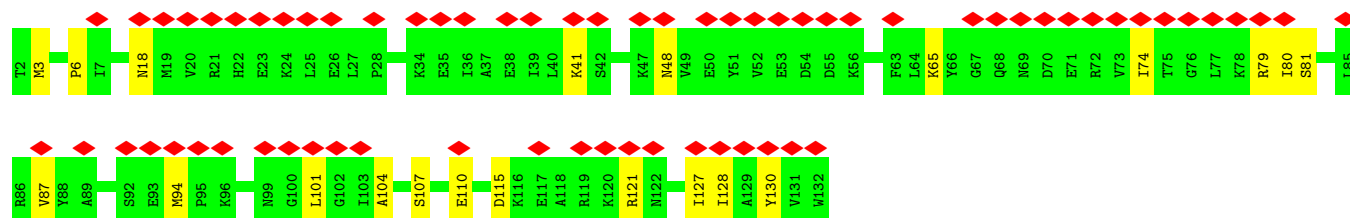
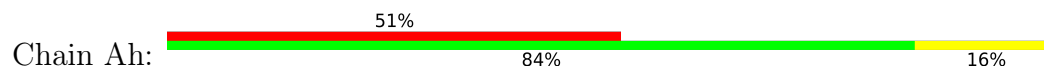
• Molecule 7: 30S ribosomal protein S7



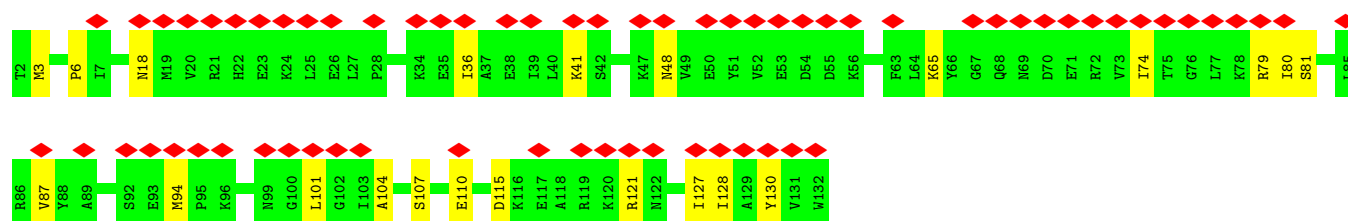
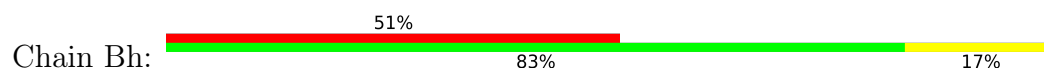
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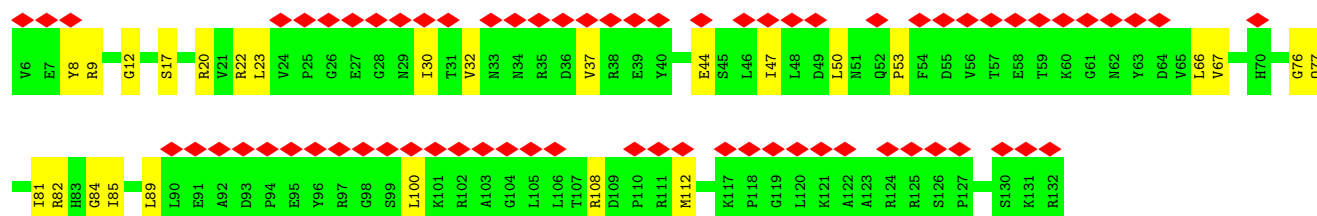
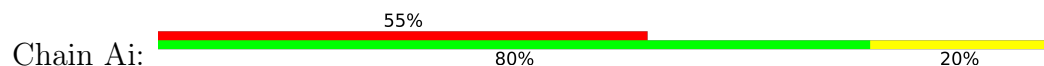
• Molecule 8: 30S ribosomal protein S8



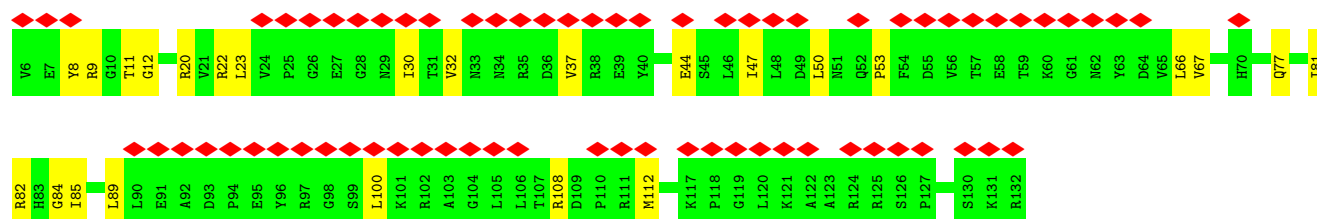
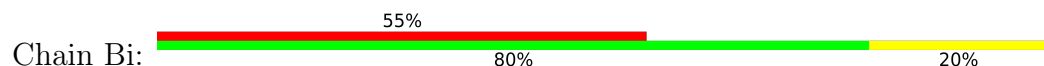
• Molecule 8: 30S ribosomal protein S8



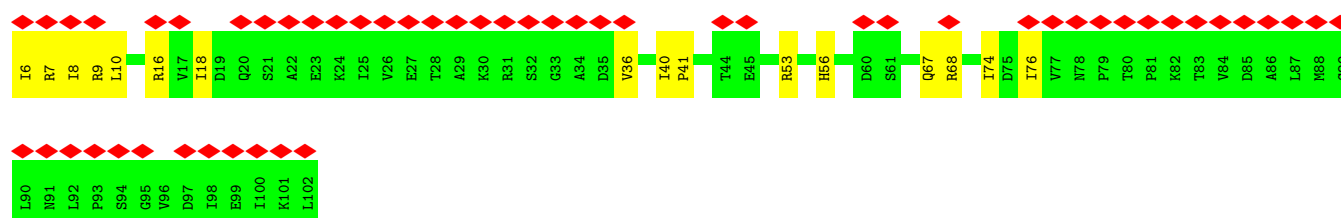
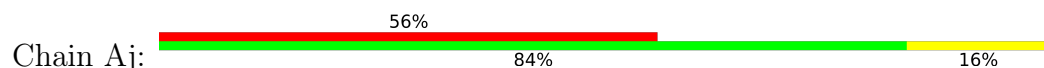
- Molecule 9: 30S ribosomal protein S9



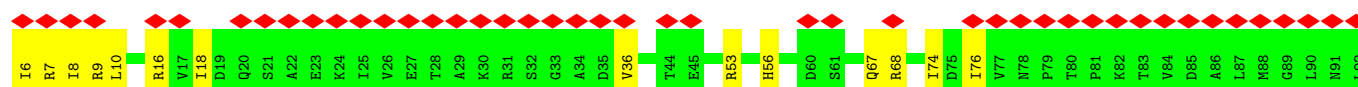
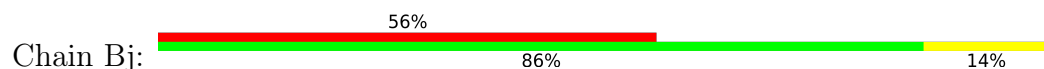
- Molecule 9: 30S ribosomal protein S9

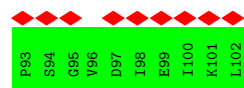


- Molecule 10: 30S ribosomal protein S10

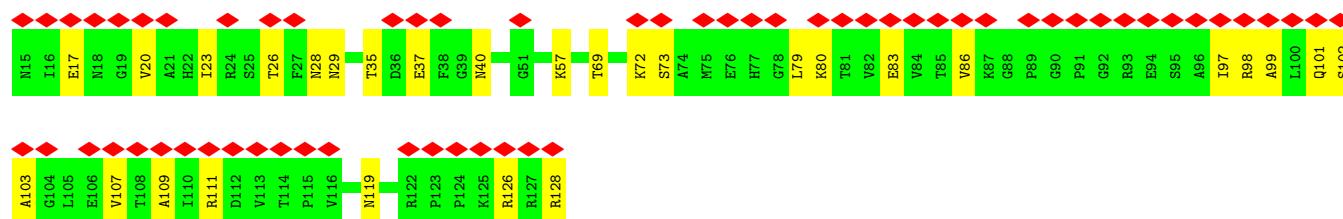
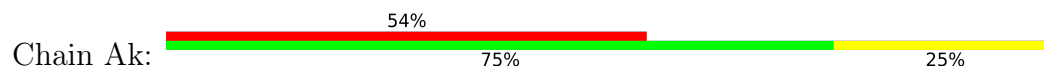


- Molecule 10: 30S ribosomal protein S10

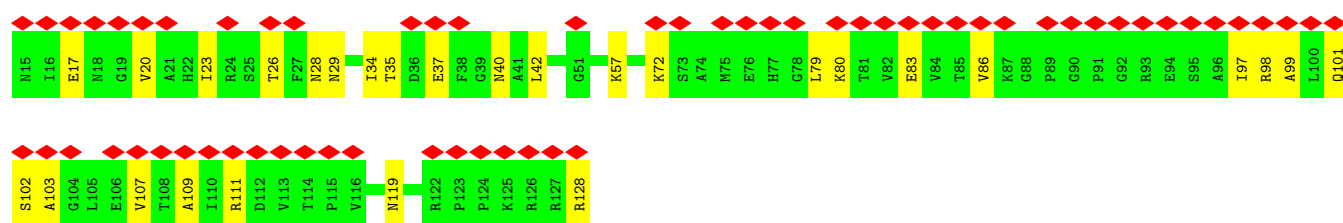
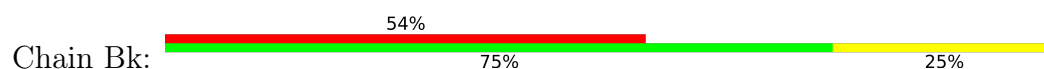




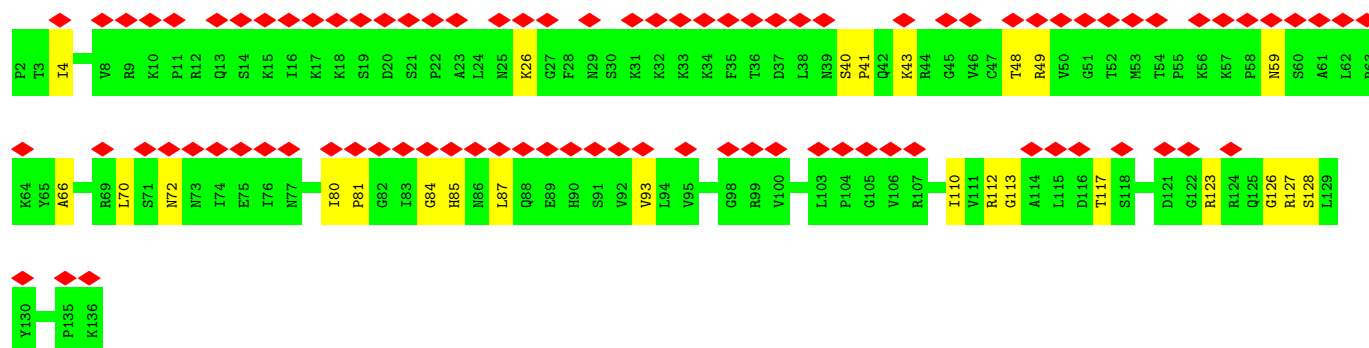
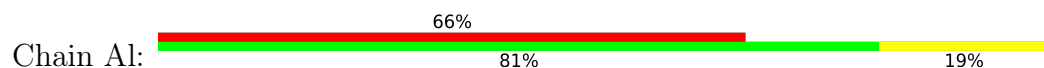
- Molecule 11: 30S ribosomal protein S11



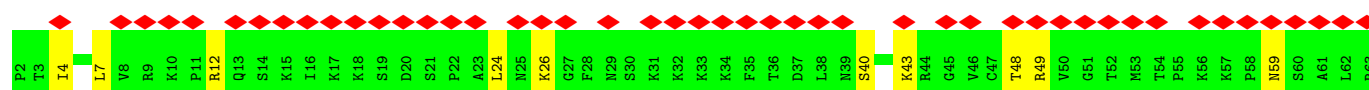
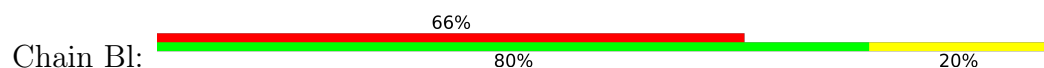
- Molecule 11: 30S ribosomal protein S11

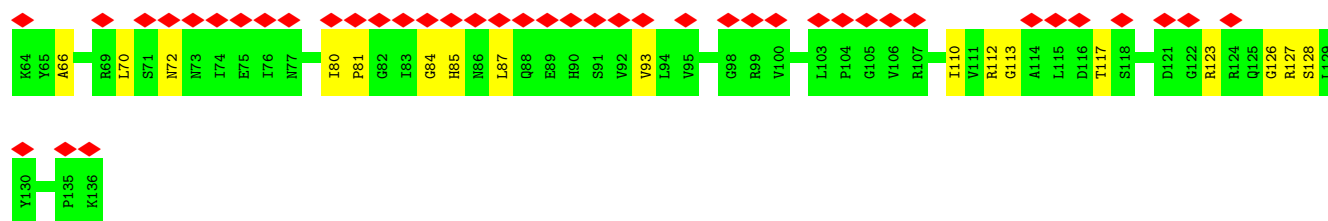


- Molecule 12: 30S ribosomal protein S12

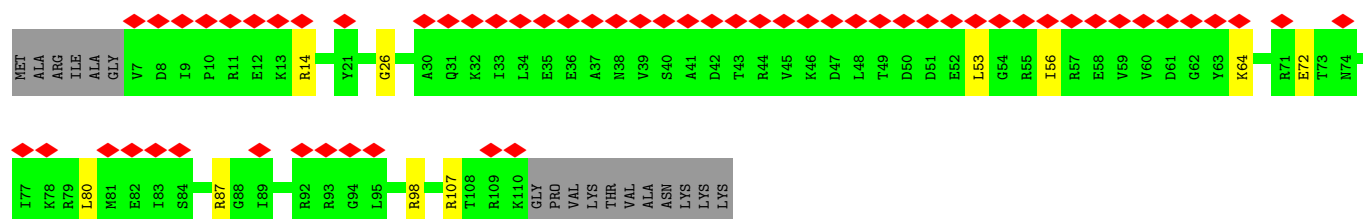
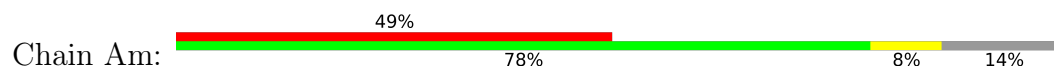


- Molecule 12: 30S ribosomal protein S12

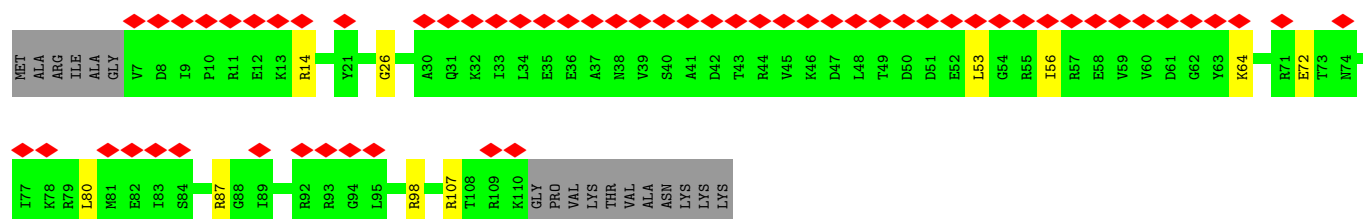
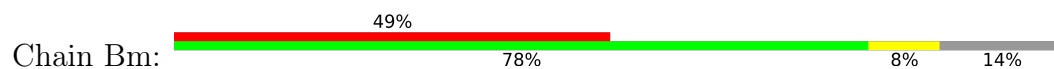




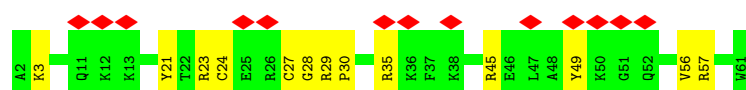
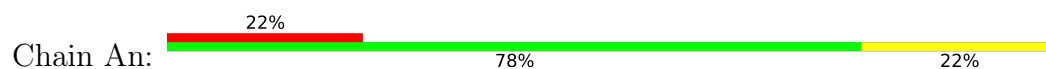
- Molecule 13: 30S ribosomal protein S13



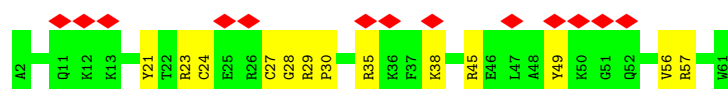
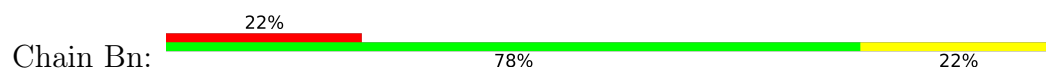
- Molecule 13: 30S ribosomal protein S13



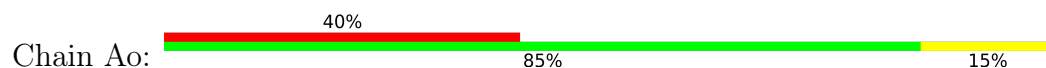
- Molecule 14: 30S ribosomal protein S14 type Z

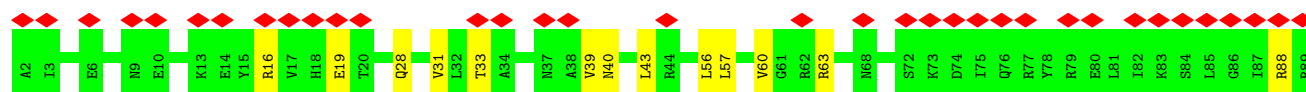


- Molecule 14: 30S ribosomal protein S14 type Z

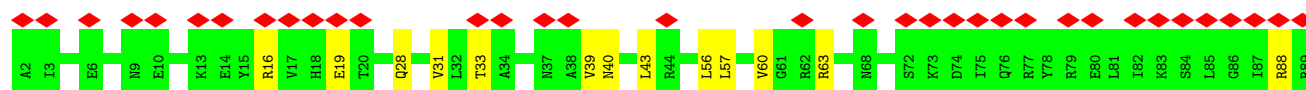
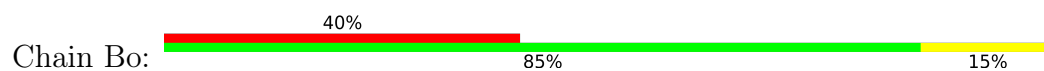


- Molecule 15: 30S ribosomal protein S15

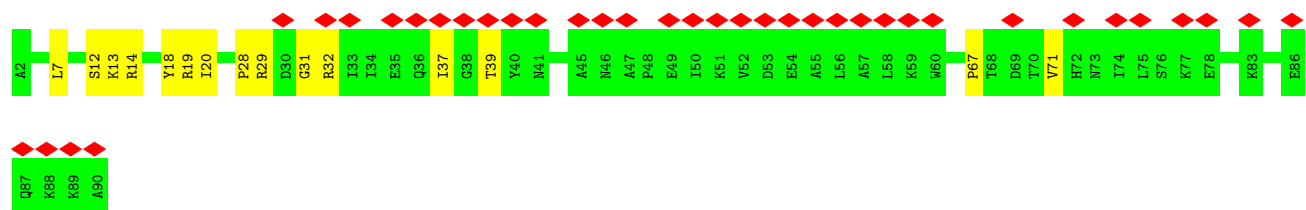
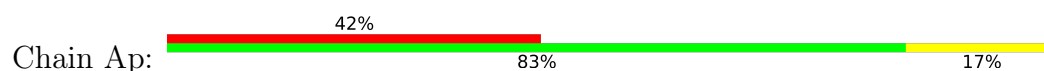




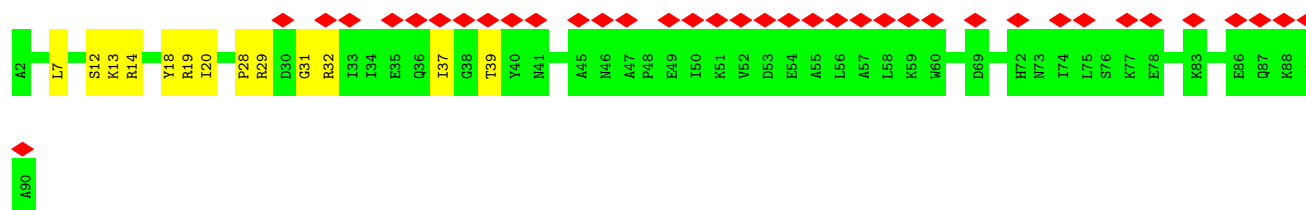
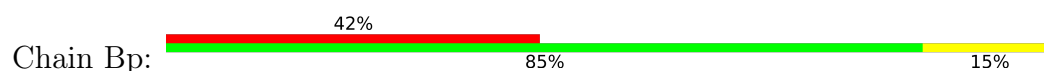
- Molecule 15: 30S ribosomal protein S15



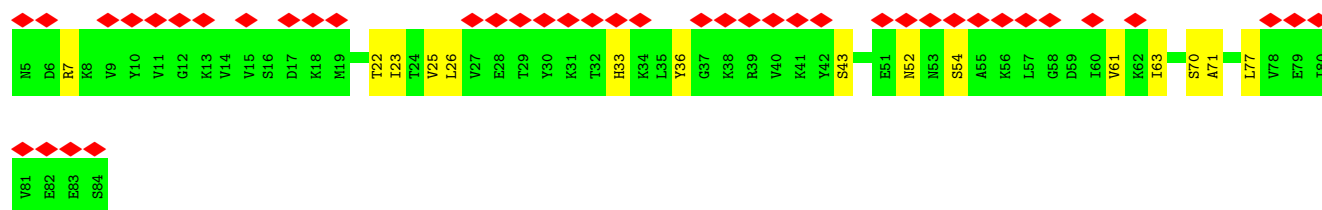
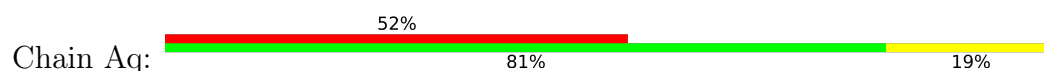
- Molecule 16: 30S ribosomal protein S16



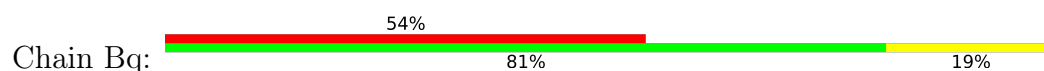
- Molecule 16: 30S ribosomal protein S16

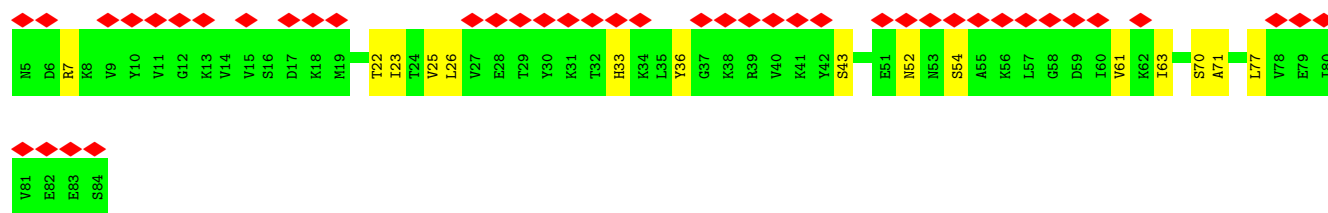


- Molecule 17: 30S ribosomal protein S17

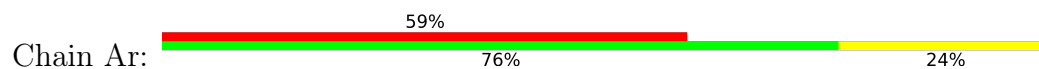


- Molecule 17: 30S ribosomal protein S17

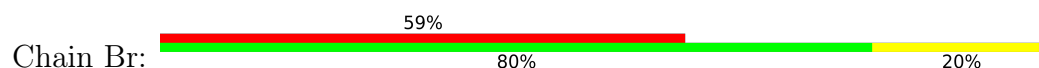




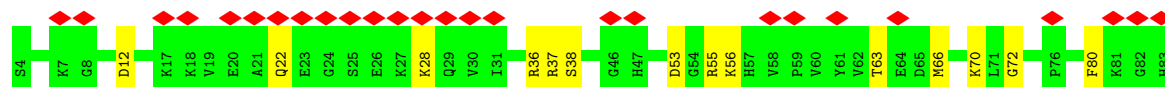
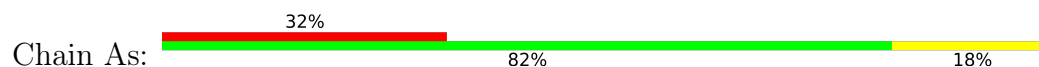
• Molecule 18: 30S ribosomal protein S18



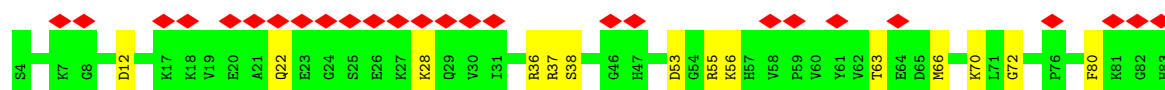
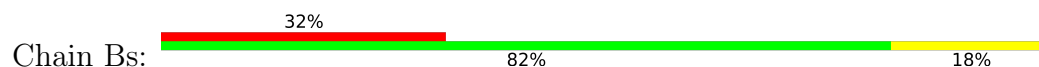
• Molecule 18: 30S ribosomal protein S18



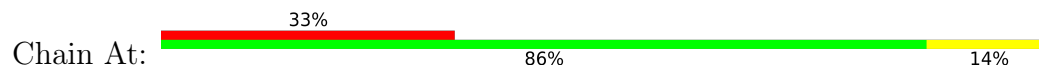
• Molecule 19: 30S ribosomal protein S19



• Molecule 19: 30S ribosomal protein S19

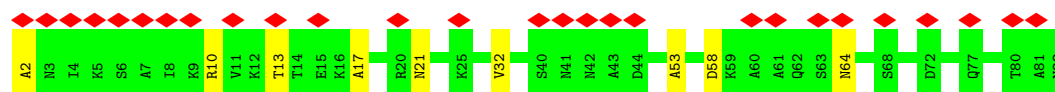


• Molecule 20: 30S ribosomal protein S20



• Molecule 20: 30S ribosomal protein S20

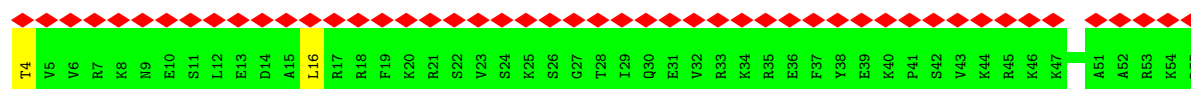




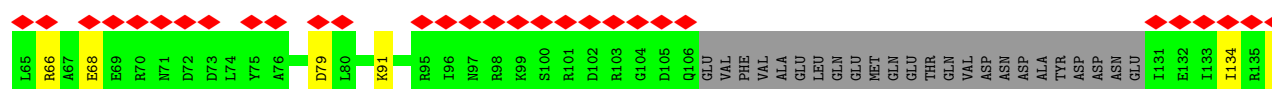
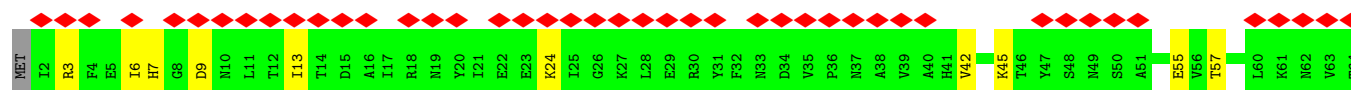
- Molecule 21: 30S ribosomal protein S21



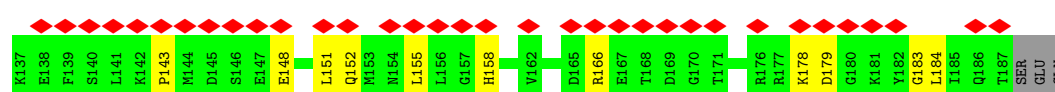
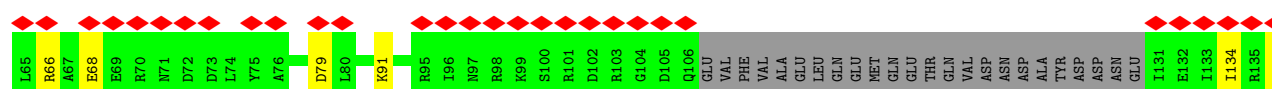
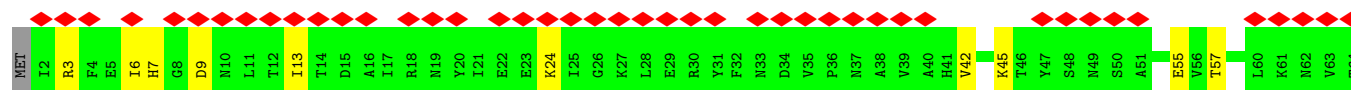
- Molecule 21: 30S ribosomal protein S21



- Molecule 22: Ribosome hibernation promotion factor



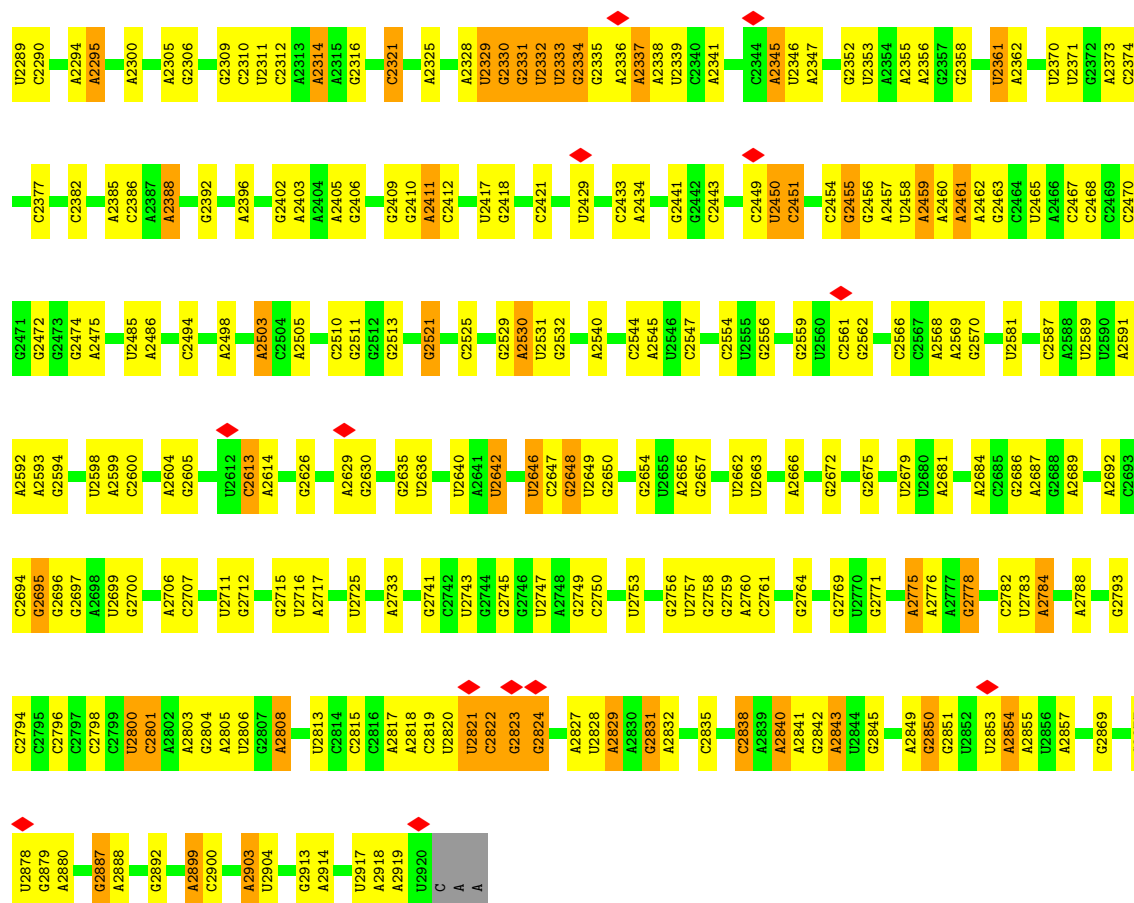
- Molecule 22: Ribosome hibernation promotion factor



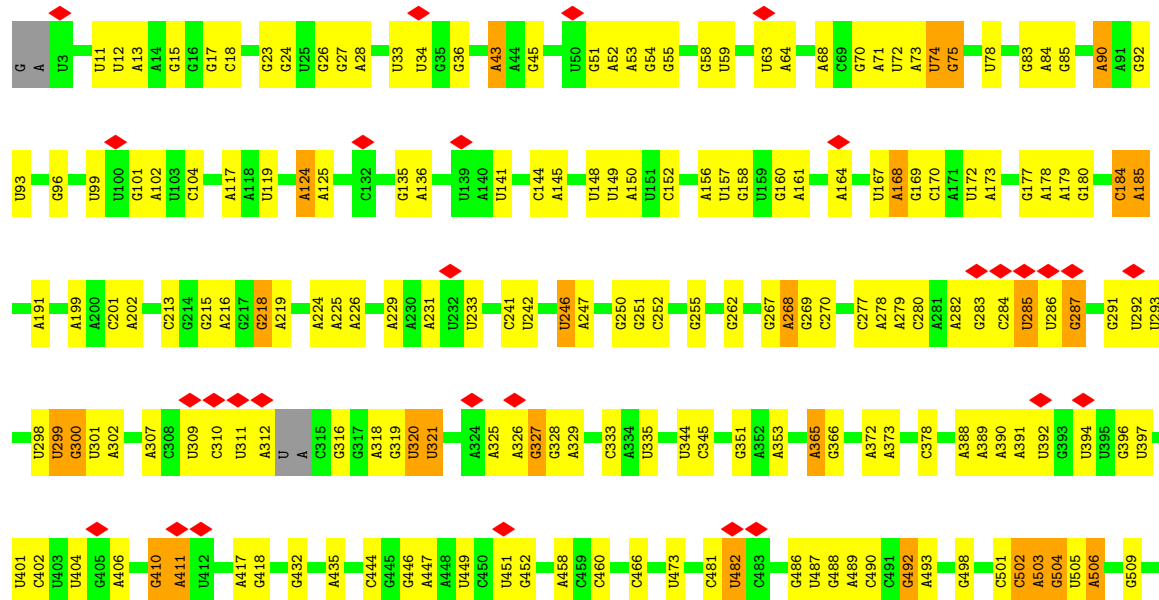
- Molecule 23: 23S ribosomal RNA

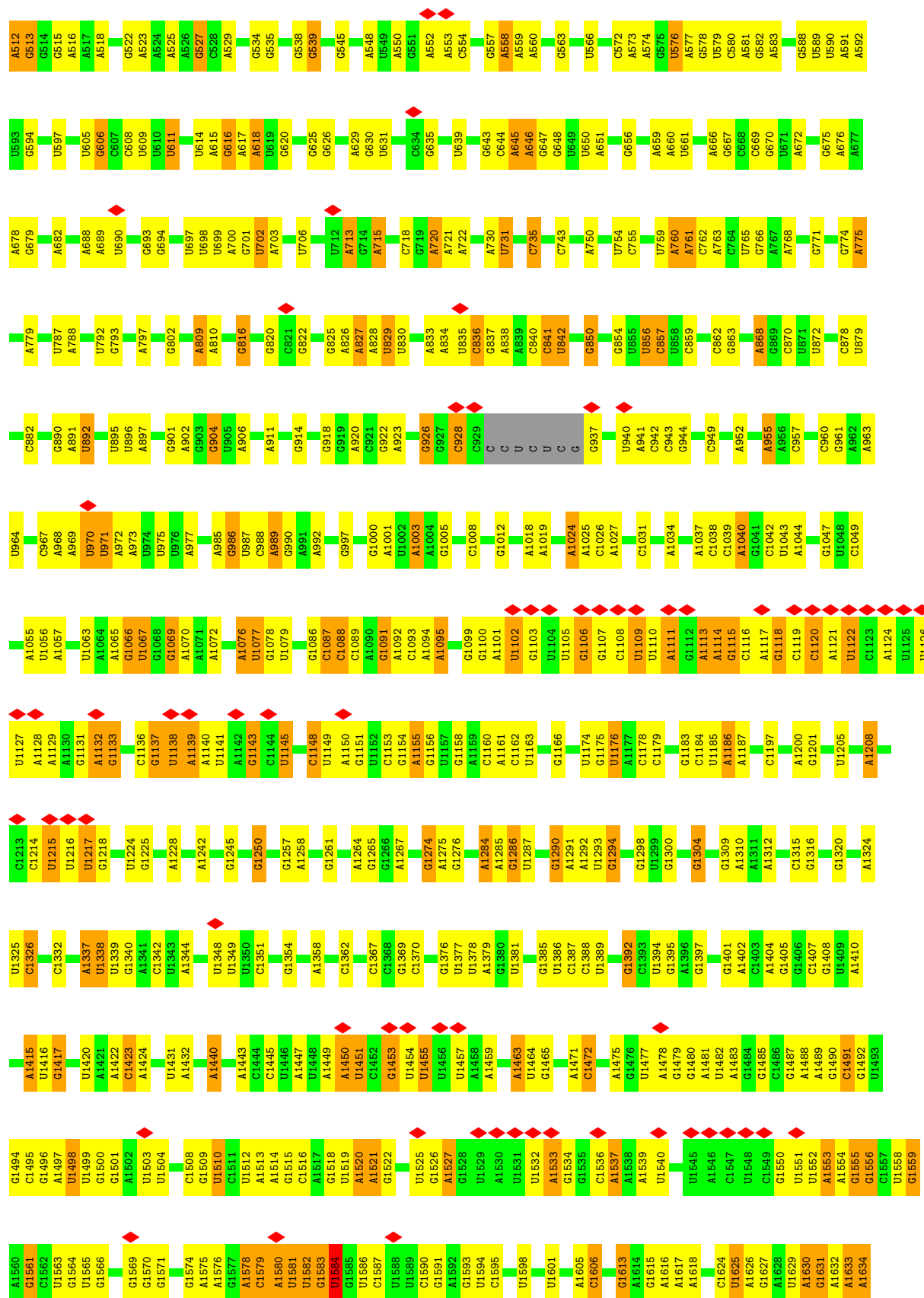


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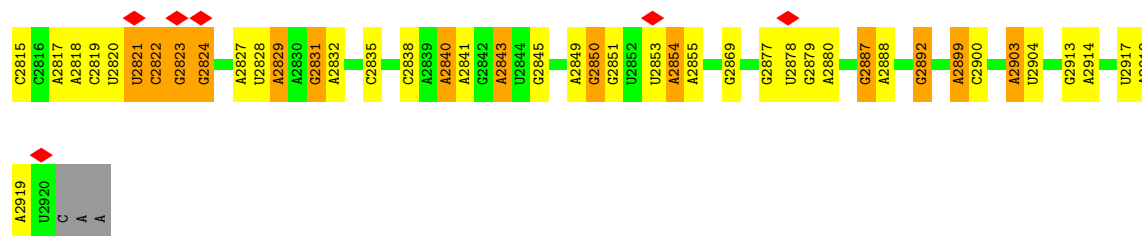


• Molecule 23: 23S ribosomal RNA

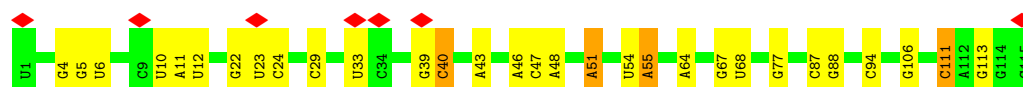
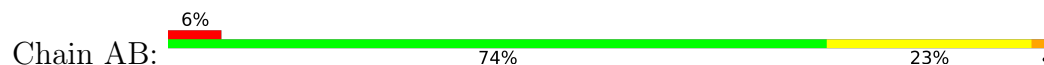




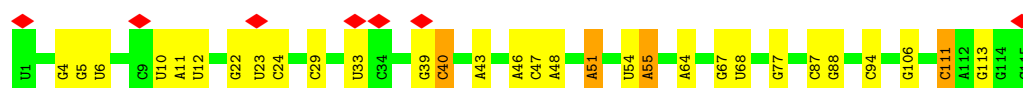
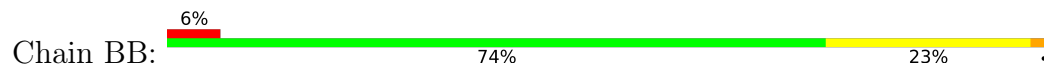
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						U2213	U2157					
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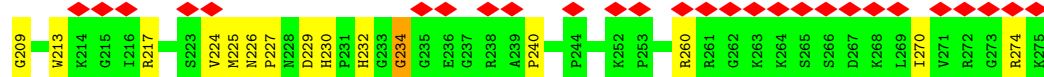
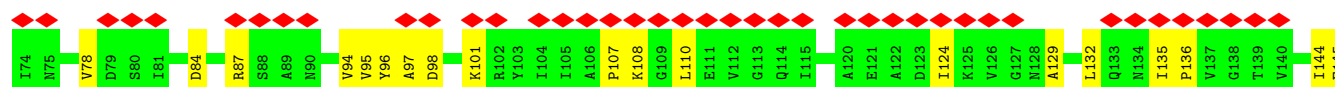
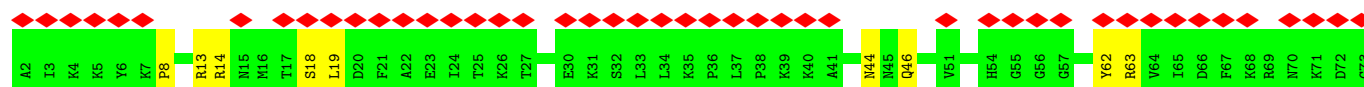
• Molecule 24: 5S ribosomal RNA



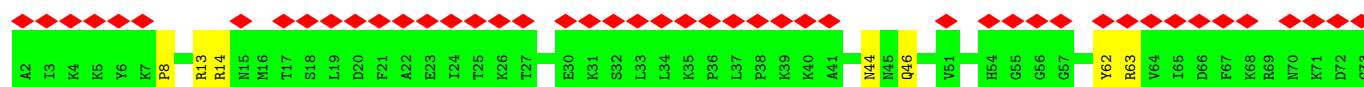
• Molecule 24: 5S ribosomal RNA

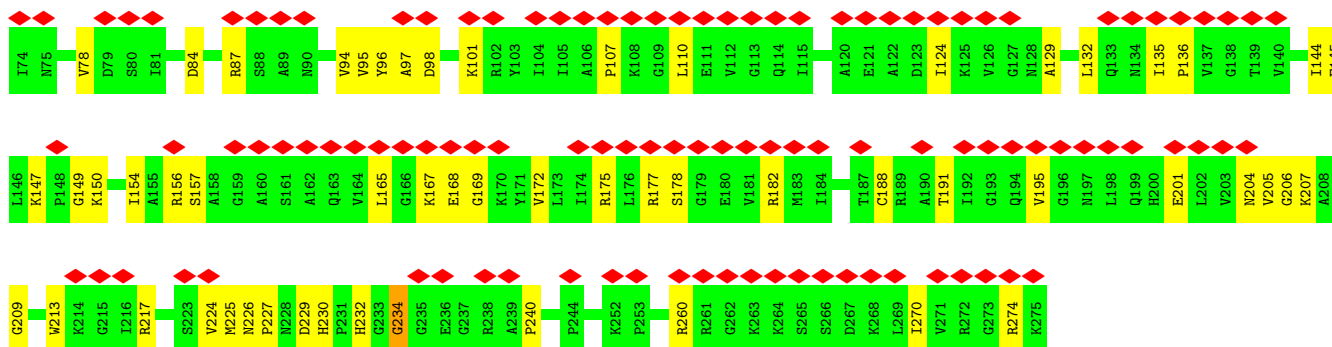


• Molecule 25: 50S ribosomal protein L2

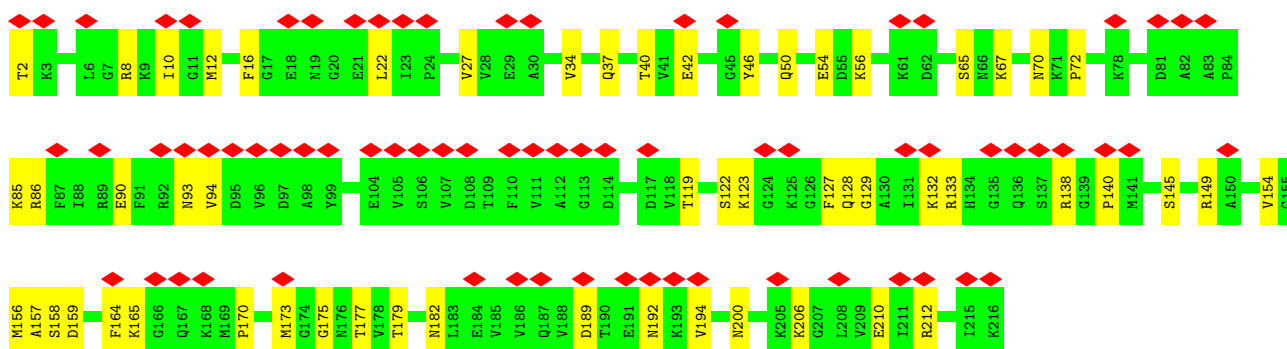
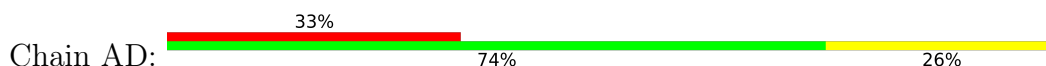


• Molecule 25: 50S ribosomal protein L2

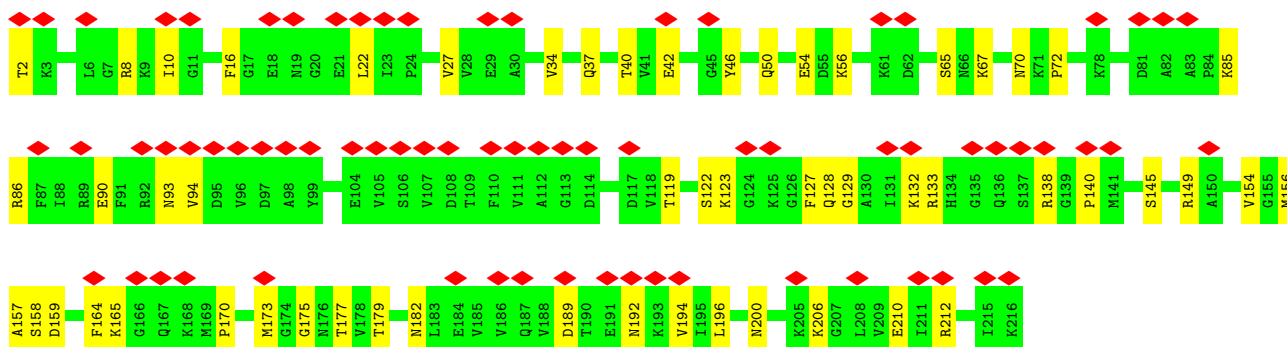
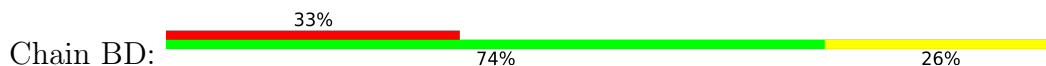




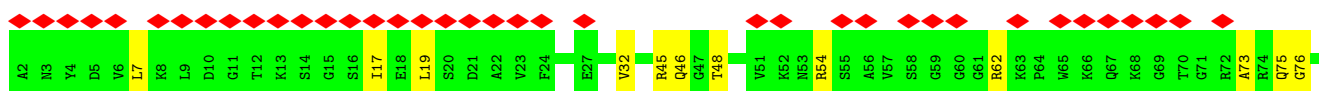
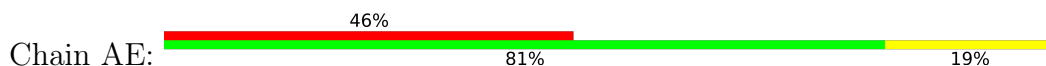
• Molecule 26: 50S ribosomal protein L3

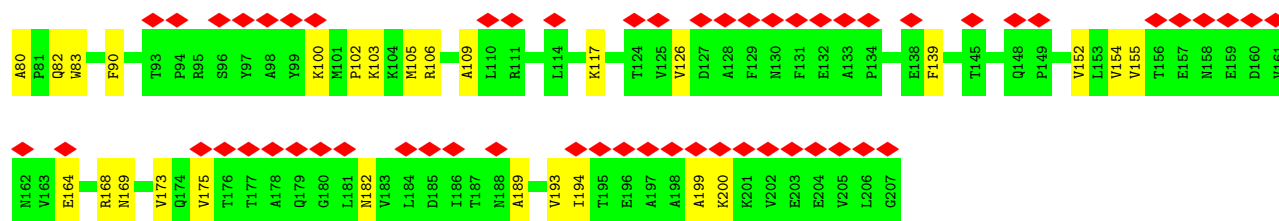


• Molecule 26: 50S ribosomal protein L3

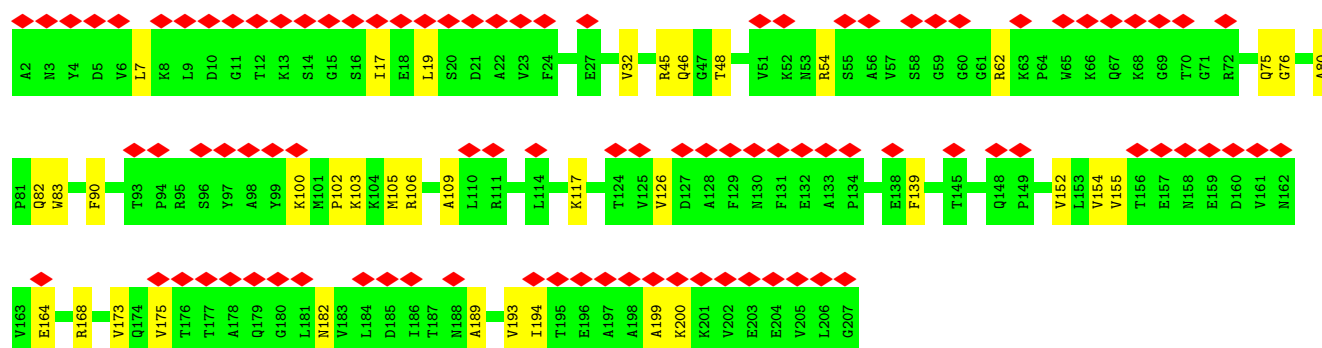
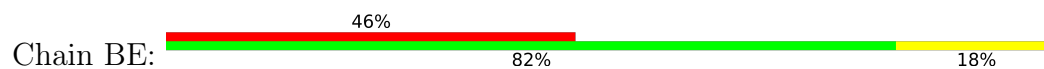


• Molecule 27: 50S ribosomal protein L4

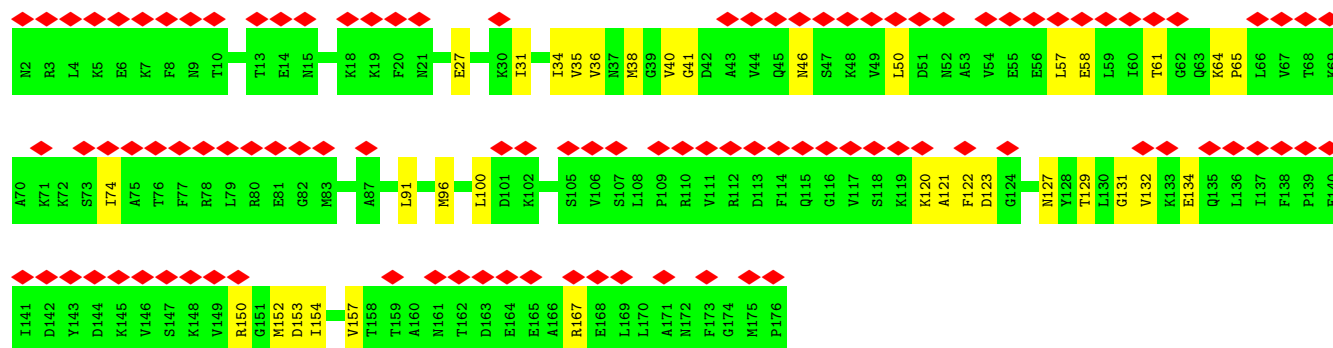
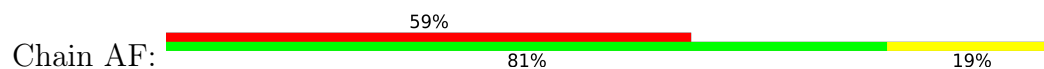




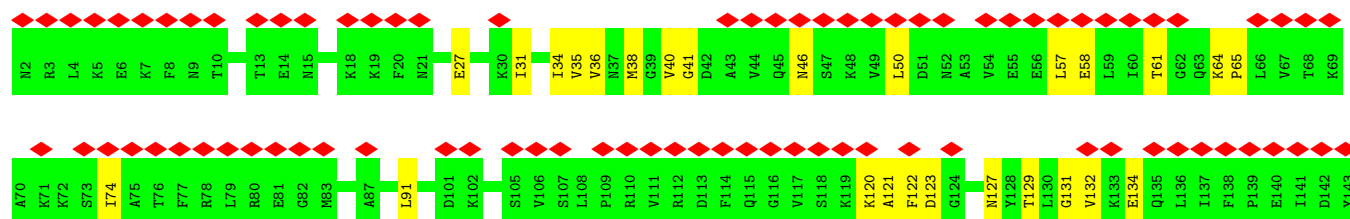
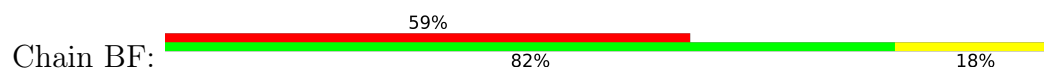
• Molecule 27: 50S ribosomal protein L4

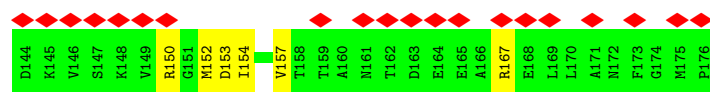


• Molecule 28: 50S ribosomal protein L5

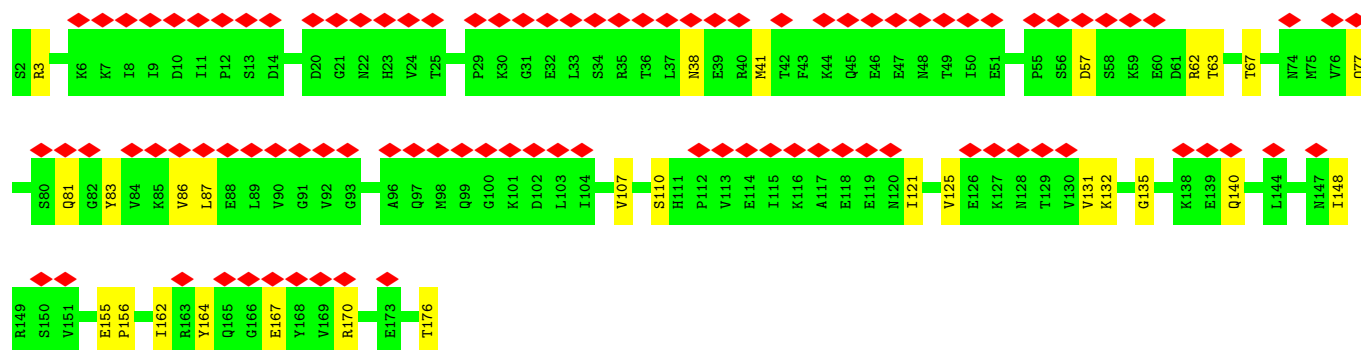
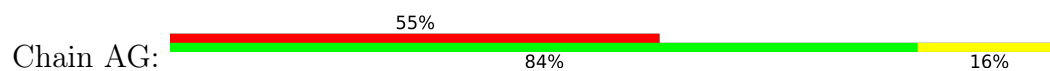


• Molecule 28: 50S ribosomal protein L5

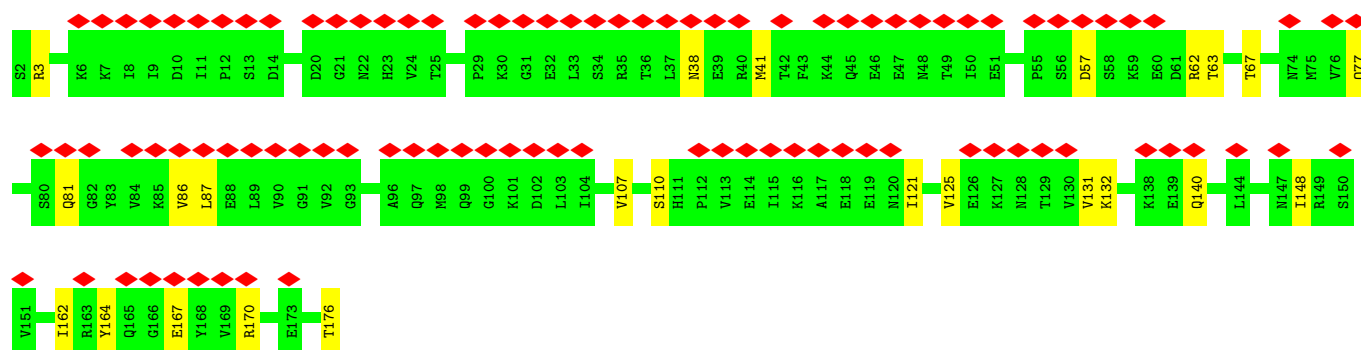
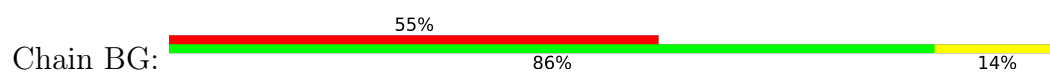




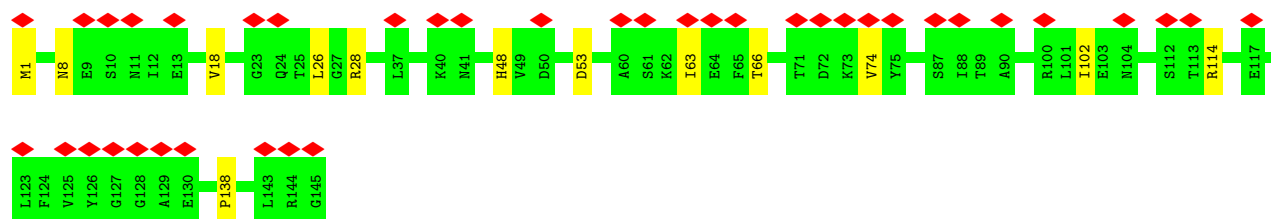
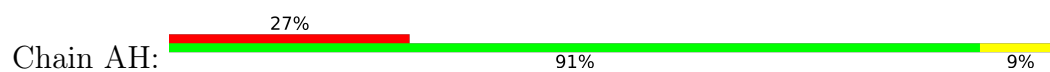
- Molecule 29: 50S ribosomal protein L6



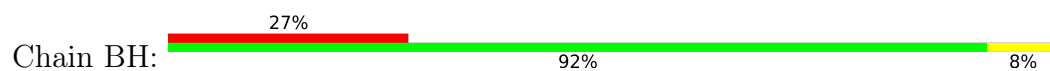
- Molecule 29: 50S ribosomal protein L6

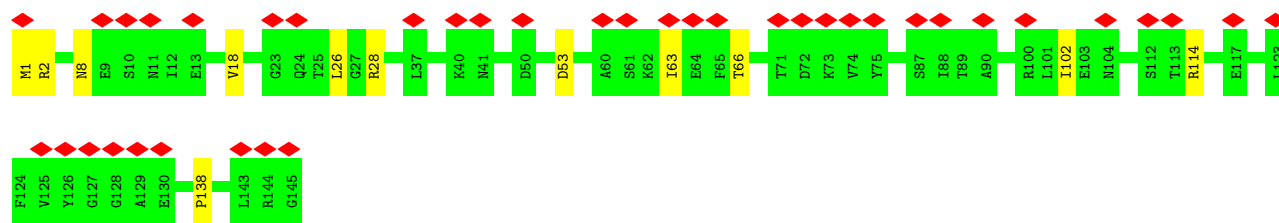


- Molecule 30: 50S ribosomal protein L13

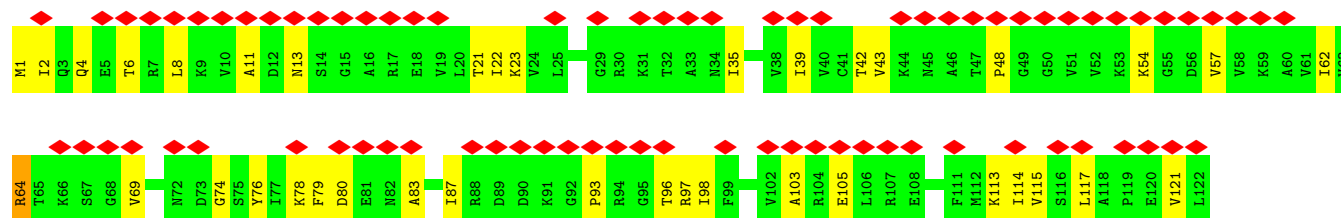


- Molecule 30: 50S ribosomal protein L13

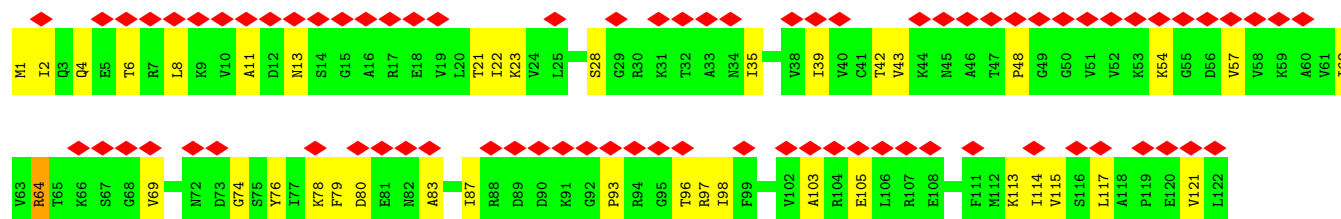




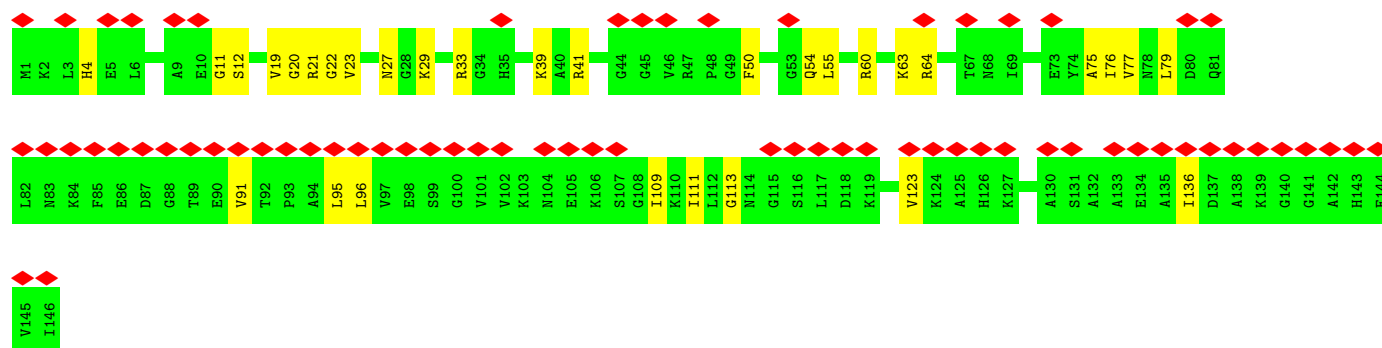
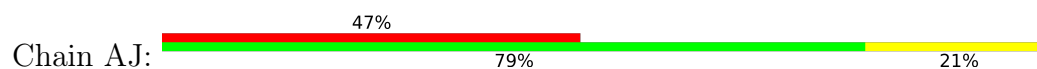
- Molecule 31: 50S ribosomal protein L14



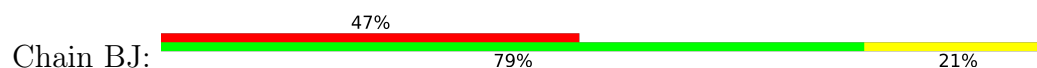
- Molecule 31: 50S ribosomal protein L14

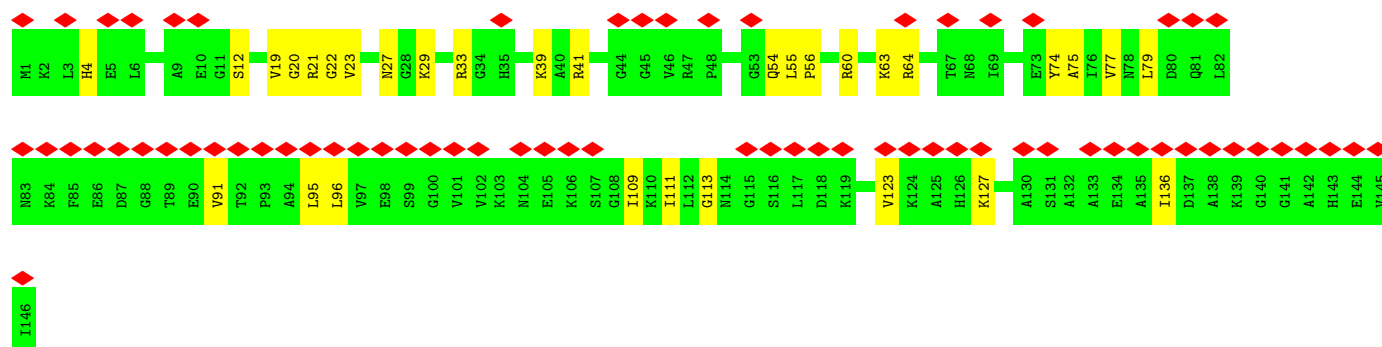


- Molecule 32: 50S ribosomal protein L15



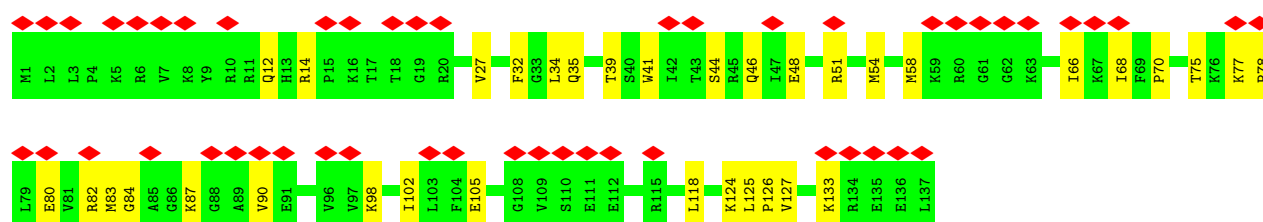
- Molecule 32: 50S ribosomal protein L15





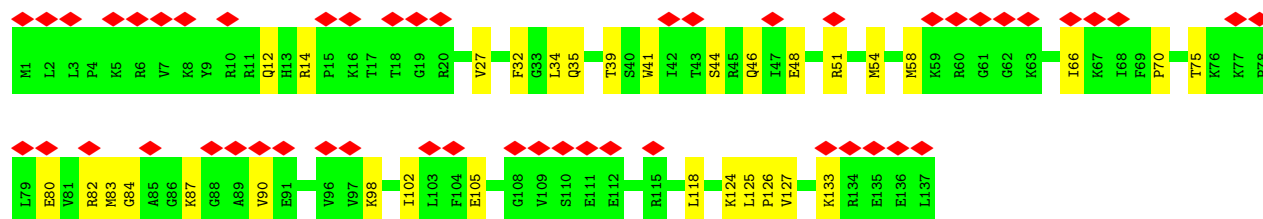
- Molecule 33: 50S ribosomal protein L16

Chain AK: 



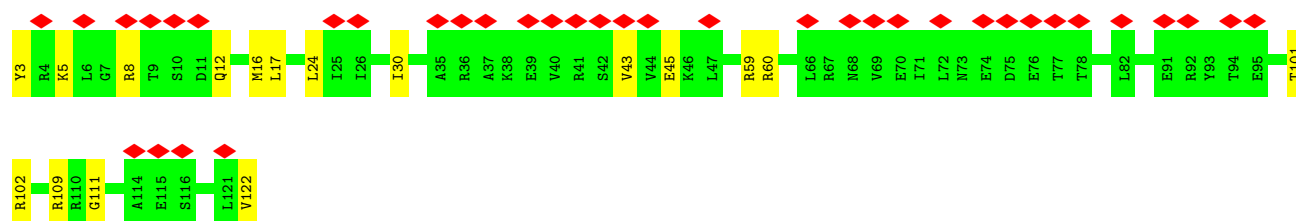
- Molecule 33: 50S ribosomal protein L16

Chain BK: 



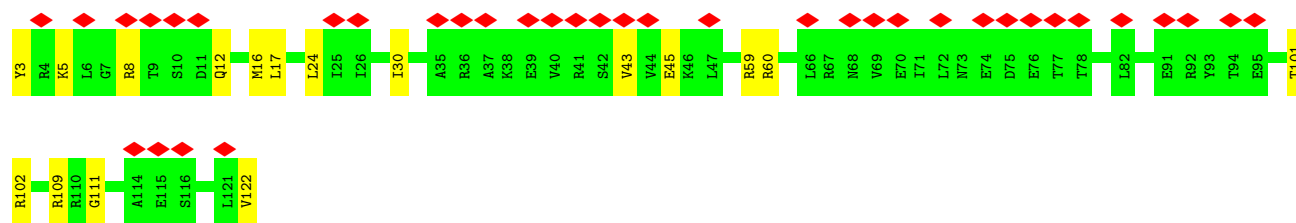
- Molecule 34: 50S ribosomal protein L17

Chain AL: 

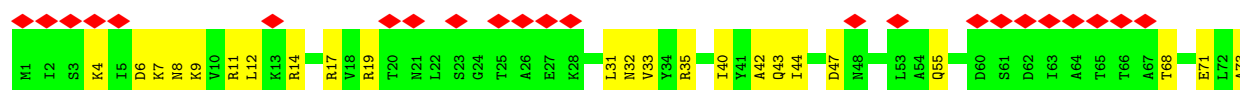
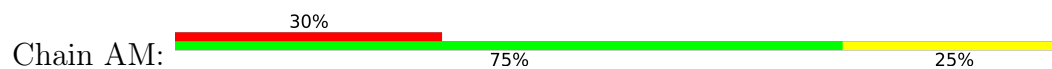


- Molecule 34: 50S ribosomal protein L17

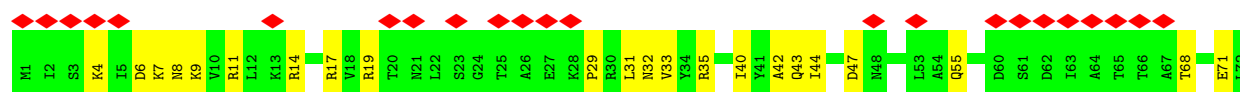
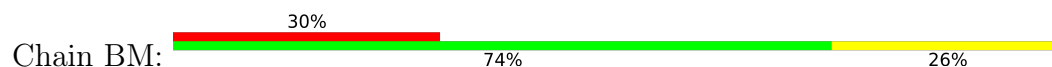
Chain BL: 



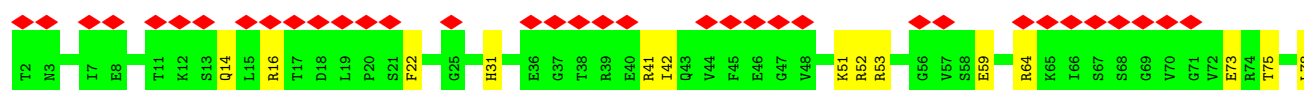
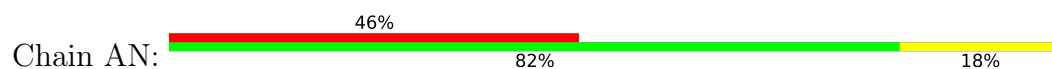
- Molecule 35: 50S ribosomal protein L18



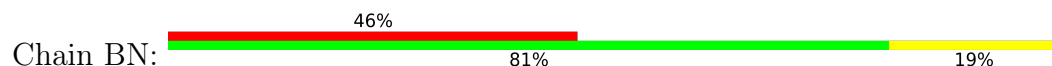
- Molecule 35: 50S ribosomal protein L18

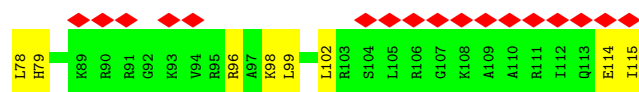


- Molecule 36: 50S ribosomal protein L19

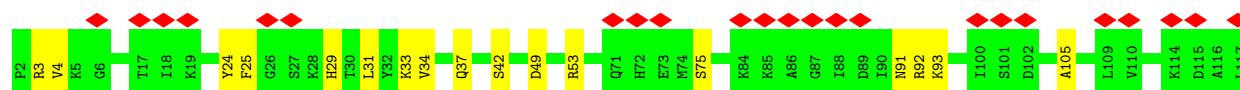
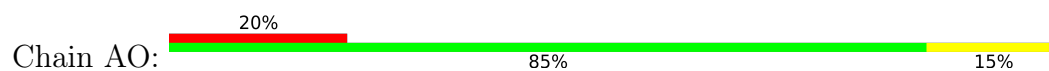


- Molecule 36: 50S ribosomal protein L19

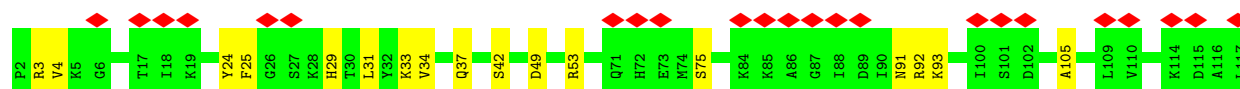
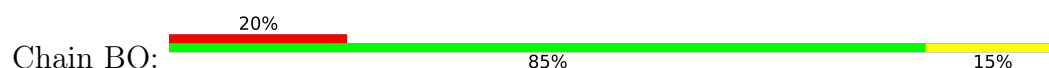




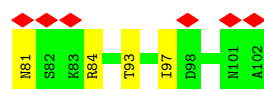
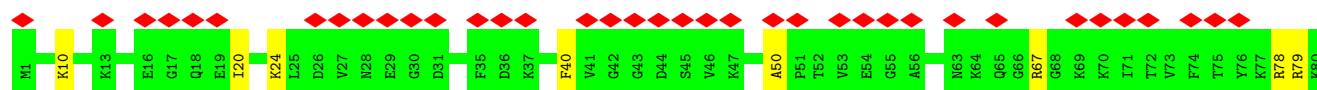
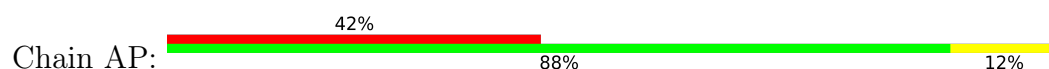
- Molecule 37: 50S ribosomal protein L20



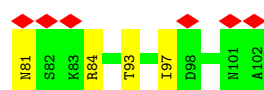
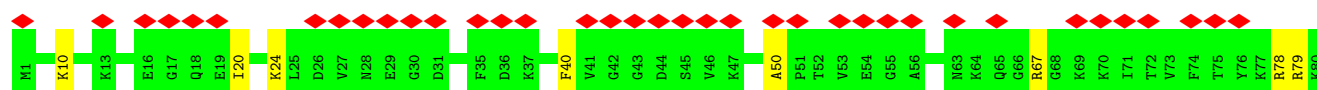
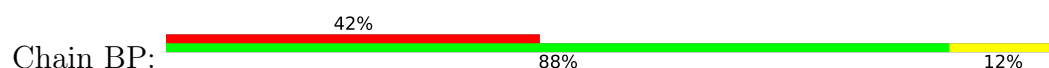
- Molecule 37: 50S ribosomal protein L20



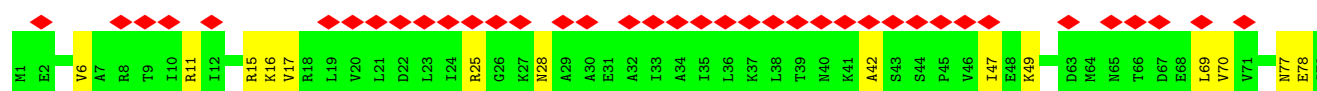
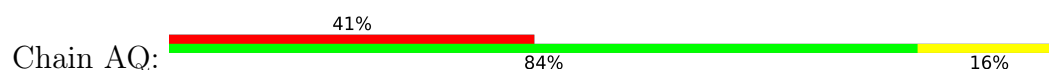
- Molecule 38: 50S ribosomal protein L21

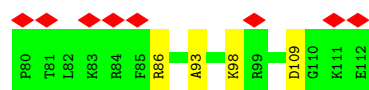


- Molecule 38: 50S ribosomal protein L21

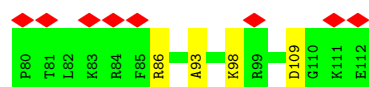
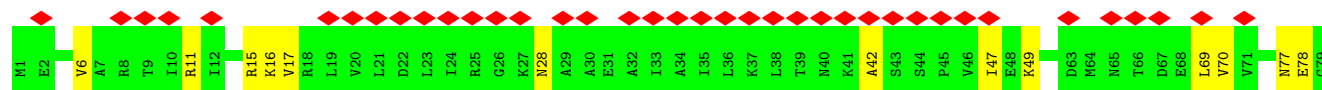
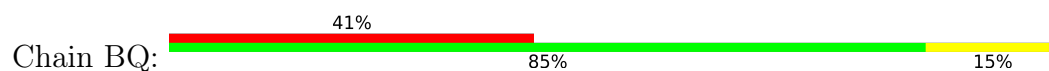


- Molecule 39: 50S ribosomal protein L22

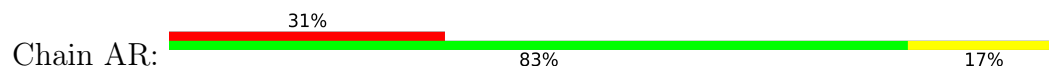




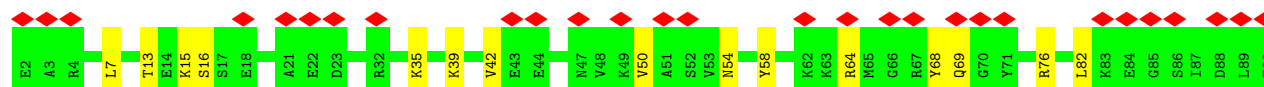
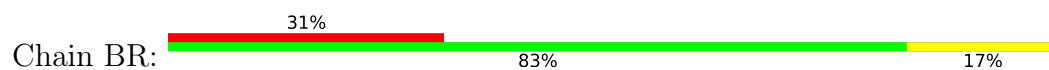
- Molecule 39: 50S ribosomal protein L22



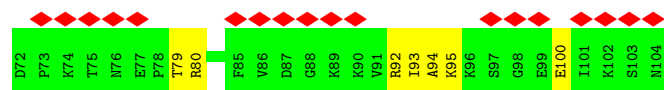
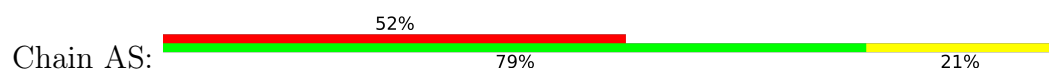
- Molecule 40: 50S ribosomal protein L23



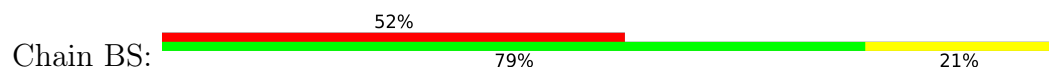
- Molecule 40: 50S ribosomal protein L23

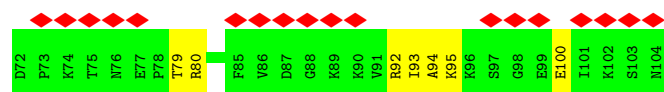


- Molecule 41: 50S ribosomal protein L24

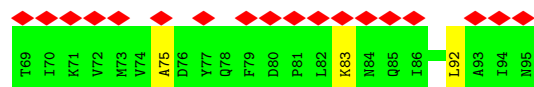
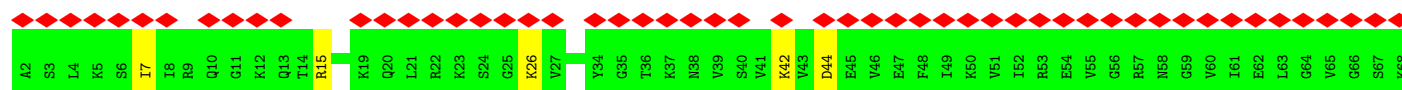
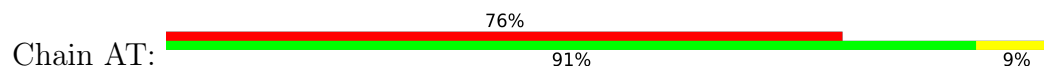


- Molecule 41: 50S ribosomal protein L24

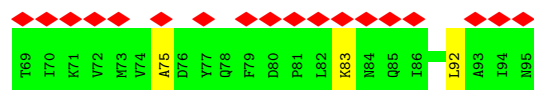
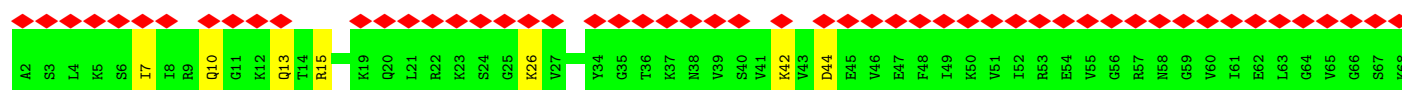
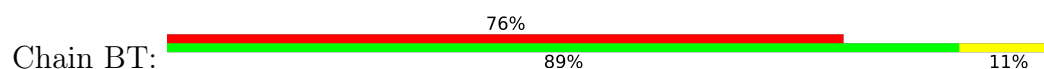




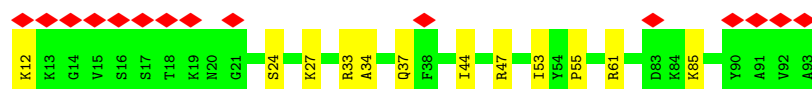
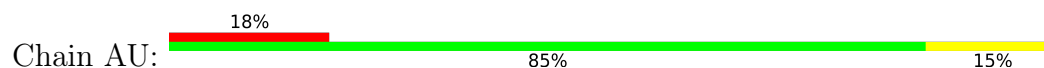
- Molecule 42: 50S ribosomal protein L25



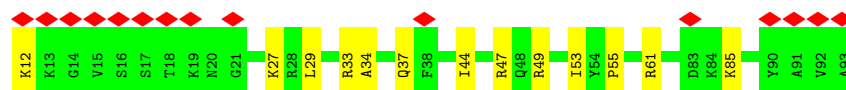
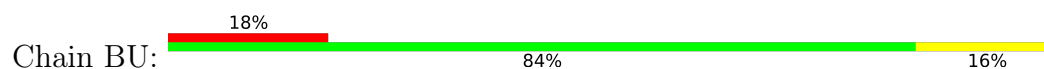
- Molecule 42: 50S ribosomal protein L25



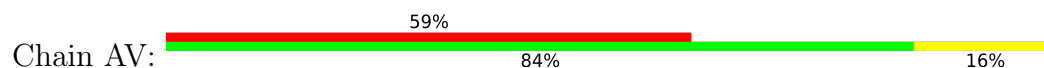
- Molecule 43: 50S ribosomal protein L27



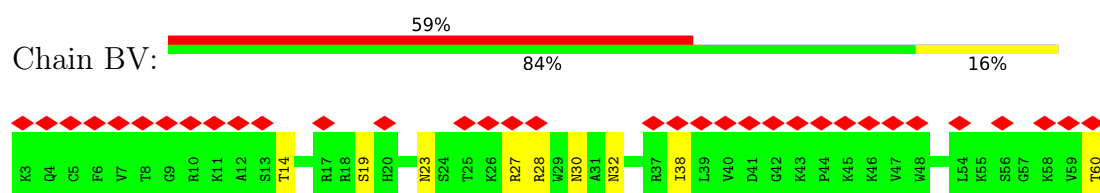
- Molecule 43: 50S ribosomal protein L27



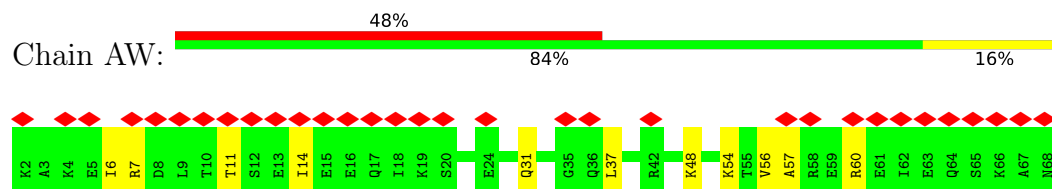
- Molecule 44: 50S ribosomal protein L28



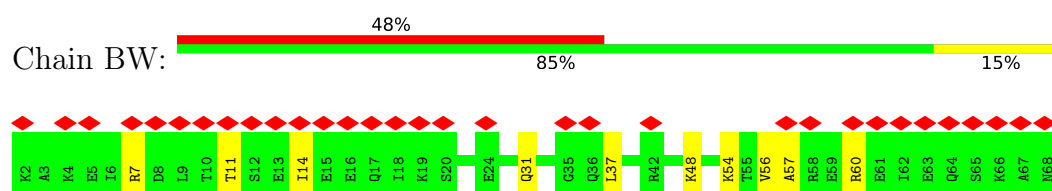
- Molecule 44: 50S ribosomal protein L28



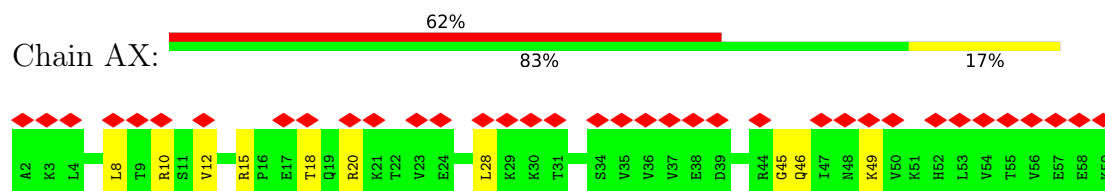
- Molecule 45: 50S ribosomal protein L29



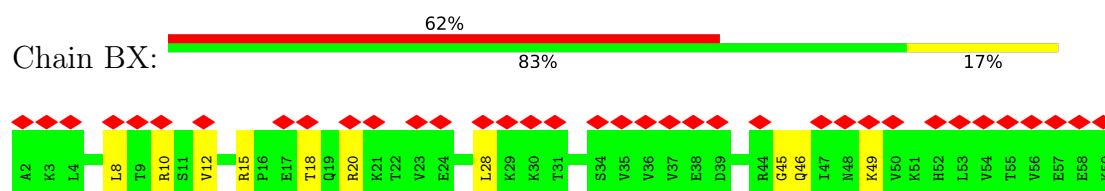
- Molecule 45: 50S ribosomal protein L29



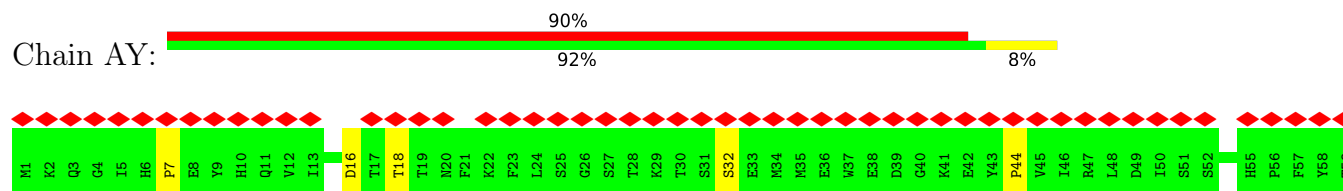
- Molecule 46: 50S ribosomal protein L30



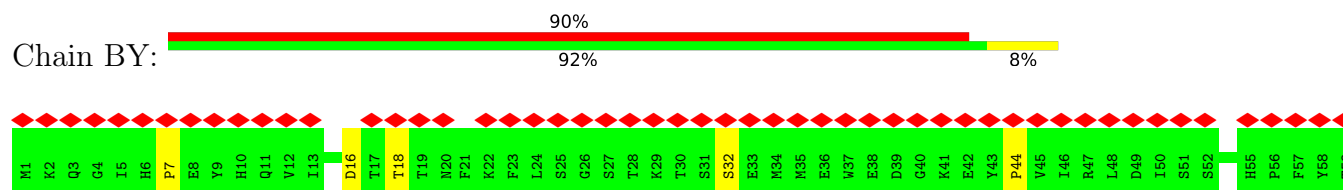
- Molecule 46: 50S ribosomal protein L30



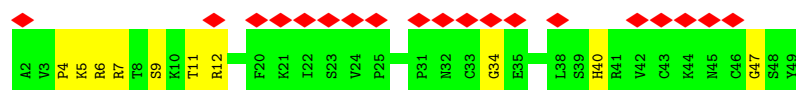
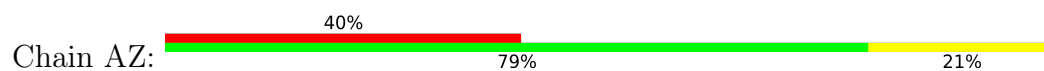
- Molecule 47: 50S ribosomal protein L31 type B



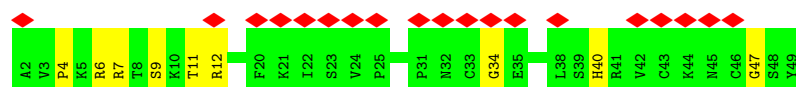
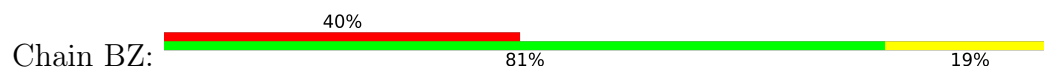
- Molecule 47: 50S ribosomal protein L31 type B



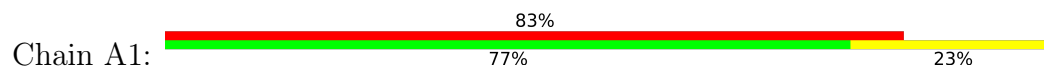
● Molecule 48: 50S ribosomal protein L32



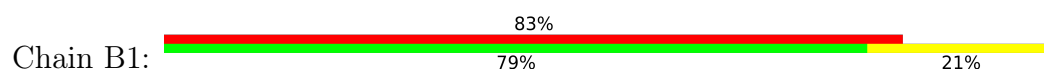
● Molecule 48: 50S ribosomal protein L32



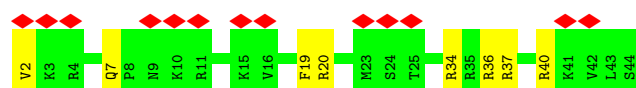
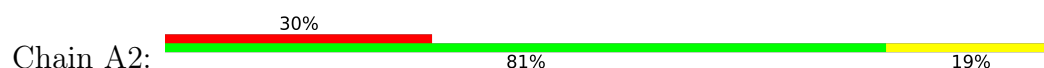
● Molecule 49: 50S ribosomal protein L33



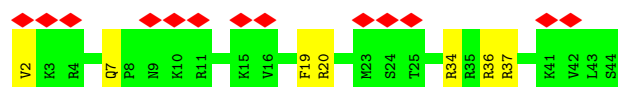
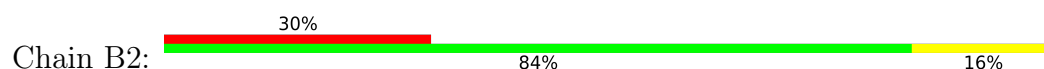
● Molecule 49: 50S ribosomal protein L33



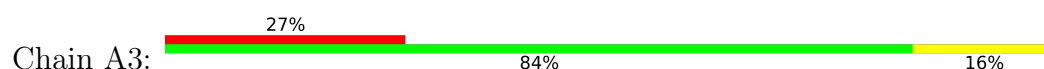
● Molecule 50: 50S ribosomal protein L34

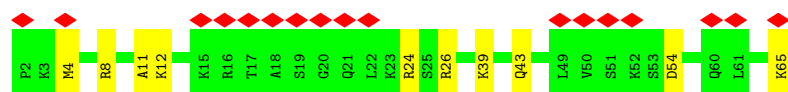


● Molecule 50: 50S ribosomal protein L34

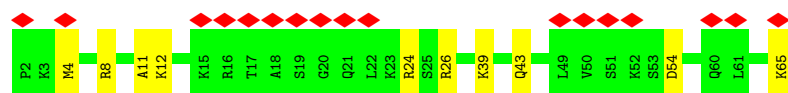
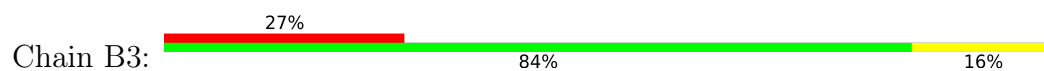


● Molecule 51: 50S ribosomal protein L35

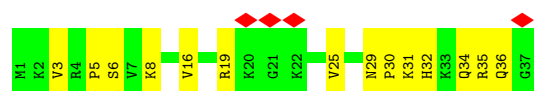




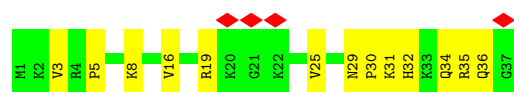
- Molecule 51: 50S ribosomal protein L35



- Molecule 52: 50S ribosomal protein L36



- Molecule 52: 50S ribosomal protein L36



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	12570	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2.3	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.059	Depositor
Minimum map value	-0.021	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.000	Depositor
Recommended contour level	0.023	Depositor
Map size ($\text{\AA}$)	642.0, 642.0, 642.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.605, 1.605, 1.605	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	0.19	0/36913	0.36	5/57564 (0.0%)
1	Ba	0.19	0/36913	0.36	5/57564 (0.0%)
2	Ab	0.18	0/1840	0.50	0/2470
2	Bb	0.18	0/1840	0.50	0/2470
3	Ac	0.21	0/1523	0.60	0/2062
3	Bc	0.21	0/1523	0.59	0/2062
4	Ad	0.20	0/1526	0.58	0/2063
4	Bd	0.21	0/1526	0.58	0/2063
5	Ae	0.22	0/1159	0.53	0/1566
5	Be	0.21	0/1159	0.53	0/1566
6	Af	0.23	0/789	0.61	2/1060 (0.2%)
6	Bf	0.23	0/789	0.61	2/1060 (0.2%)
7	Ag	0.16	0/1176	0.48	0/1588
7	Bg	0.16	0/1176	0.48	0/1588
8	Ah	0.26	0/1038	0.61	0/1395
8	Bh	0.26	0/1038	0.61	0/1395
9	Ai	0.22	0/937	0.66	1/1269 (0.1%)
9	Bi	0.22	0/937	0.66	1/1269 (0.1%)
10	Aj	0.21	0/764	0.54	0/1034
10	Bj	0.21	0/764	0.54	0/1034
11	Ak	0.22	0/824	0.62	0/1119
11	Bk	0.22	0/824	0.62	0/1119
12	Al	0.24	0/1054	0.61	0/1415
12	Bl	0.24	0/1054	0.61	0/1415
13	Am	0.20	0/732	0.60	0/991
13	Bm	0.20	0/732	0.60	0/991
14	An	0.27	0/497	0.71	0/662
14	Bn	0.26	0/497	0.71	0/662
15	Ao	0.22	0/732	0.54	0/979
15	Bo	0.22	0/732	0.54	0/979
16	Ap	0.24	0/705	0.55	0/952
16	Bp	0.24	0/705	0.55	0/952
17	Aq	0.23	0/629	0.54	0/849
17	Bq	0.24	0/629	0.54	0/849

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
18	Ar	0.24	0/453	0.59	0/604
18	Br	0.24	0/453	0.59	0/604
19	As	0.27	0/654	0.63	0/879
19	Bs	0.27	0/654	0.63	0/879
20	At	0.18	0/591	0.48	0/793
20	Bt	0.18	0/591	0.48	0/793
21	Au	0.18	0/403	0.47	0/535
21	Bu	0.18	0/403	0.47	0/535
22	Av	0.54	0/1350	1.01	4/1812 (0.2%)
22	Bv	0.54	0/1350	1.01	4/1812 (0.2%)
23	AA	0.36	1/69738 (0.0%)	0.36	1/108747 (0.0%)
23	BA	0.36	1/69738 (0.0%)	0.36	2/108747 (0.0%)
24	AB	0.30	0/2732	0.39	0/4253
24	BB	0.30	0/2732	0.39	0/4253
25	AC	0.45	0/2129	0.67	2/2858 (0.1%)
25	BC	0.45	0/2129	0.67	2/2858 (0.1%)
26	AD	0.43	0/1651	0.69	0/2215
26	BD	0.43	0/1651	0.69	0/2215
27	AE	0.41	0/1595	0.62	0/2154
27	BE	0.41	0/1595	0.62	0/2154
28	AF	0.25	0/1339	0.60	0/1805
28	BF	0.26	0/1339	0.60	0/1805
29	AG	0.27	0/1281	0.54	0/1736
29	BG	0.27	0/1281	0.54	0/1736
30	AH	0.43	0/1165	0.64	0/1570
30	BH	0.43	0/1165	0.64	0/1570
31	AI	0.40	0/925	0.70	1/1242 (0.1%)
31	BI	0.40	0/925	0.70	1/1242 (0.1%)
32	AJ	0.42	0/1100	0.66	0/1467
32	BJ	0.42	0/1100	0.66	0/1467
33	AK	0.40	0/1095	0.62	0/1472
33	BK	0.40	0/1095	0.62	0/1472
34	AL	0.41	0/936	0.70	0/1253
34	BL	0.41	0/936	0.70	0/1253
35	AM	0.49	0/900	0.73	1/1205 (0.1%)
35	BM	0.49	0/900	0.73	1/1205 (0.1%)
36	AN	0.37	0/901	0.66	0/1209
36	BN	0.38	0/901	0.66	0/1209
37	AO	0.48	0/954	0.65	0/1264
37	BO	0.48	0/954	0.65	0/1264
38	AP	0.42	0/800	0.63	0/1070
38	BP	0.42	0/800	0.63	0/1070
39	AQ	0.44	0/862	0.66	0/1161

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	BQ	0.44	0/862	0.65	0/1161
40	AR	0.36	0/723	0.65	0/966
40	BR	0.36	0/723	0.65	0/966
41	AS	0.32	0/779	0.69	2/1043 (0.2%)
41	BS	0.32	0/779	0.69	2/1043 (0.2%)
42	AT	0.31	0/730	0.64	2/981 (0.2%)
42	BT	0.31	0/730	0.64	2/981 (0.2%)
43	AU	0.46	0/628	0.69	2/833 (0.2%)
43	BU	0.46	0/628	0.69	2/833 (0.2%)
44	AV	0.34	0/451	0.64	0/603
44	BV	0.34	0/451	0.64	0/603
45	AW	0.36	0/542	0.71	0/722
45	BW	0.35	0/542	0.72	0/722
46	AX	0.39	0/451	0.60	0/606
46	BX	0.39	0/451	0.60	0/606
47	AY	0.17	0/378	0.46	0/521
47	BY	0.16	0/378	0.46	0/521
48	AZ	0.41	0/366	0.66	0/489
48	BZ	0.41	0/366	0.65	0/489
49	A1	0.24	0/395	0.60	0/530
49	B1	0.24	0/395	0.60	0/530
50	A2	0.46	0/371	0.71	0/484
50	B2	0.46	0/371	0.71	0/484
51	A3	0.39	0/526	0.65	0/690
51	B3	0.39	0/526	0.66	0/690
52	A4	0.47	0/298	0.64	0/392
52	B4	0.46	0/298	0.64	0/392
All	All	0.32	2/306060 (0.0%)	0.45	47/458404 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
5	Ae	0	1
5	Be	0	1
9	Ai	0	1
9	Bi	0	1
12	Al	0	1
12	Bl	0	1
19	As	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
19	Bs	0	1
20	At	0	1
20	Bt	0	1
26	AD	0	1
26	BD	0	1
38	AP	0	1
38	BP	0	1
All	All	0	14

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	AA	1584	U	C1'-N1	6.18	1.56	1.47
23	BA	1584	U	C1'-N1	6.18	1.56	1.47

The worst 5 of 47 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Aa	745	U	OP1-P-O3'	-9.30	80.09	108.00
1	Ba	745	U	OP1-P-O3'	-9.29	80.12	108.00
22	Bv	178	LYS	CA-C-N	7.58	130.43	120.28
22	Bv	178	LYS	C-N-CA	7.58	130.43	120.28
22	Av	178	LYS	CA-C-N	7.56	130.41	120.28

There are no chirality outliers.

5 of 14 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
5	Ae	76	ARG	Peptide
9	Ai	108	ARG	Peptide
12	Al	126	GLY	Peptide
19	As	80	PHE	Peptide
20	At	58	ASP	Peptide

5.2 Too-close contacts

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	32969	0	16595	372	0
1	Ba	32969	0	16595	374	0
2	Ab	1813	0	1875	100	0
2	Bb	1813	0	1875	96	0
3	Ac	1501	0	1464	22	0
3	Bc	1501	0	1464	22	0
4	Ad	1497	0	1449	20	0
4	Bd	1497	0	1449	16	0
5	Ae	1145	0	1202	17	0
5	Be	1145	0	1202	18	0
6	Af	778	0	775	9	0
6	Bf	778	0	775	11	0
7	Ag	1161	0	1165	14	0
7	Bg	1161	0	1165	12	0
8	Ah	1026	0	1078	12	0
8	Bh	1026	0	1078	13	0
9	Ai	922	0	890	16	0
9	Bi	922	0	890	15	0
10	Aj	752	0	775	14	0
10	Bj	752	0	775	12	0
11	Ak	810	0	784	22	0
11	Bk	810	0	784	19	0
12	Al	1037	0	1091	18	0
12	Bl	1037	0	1091	18	0
13	Am	727	0	674	7	0
13	Bm	727	0	674	7	0
14	An	487	0	492	13	0
14	Bn	487	0	492	13	0
15	Ao	723	0	749	24	0
15	Bo	723	0	749	25	0
16	Ap	694	0	709	10	0
16	Bp	694	0	709	9	0
17	Aq	621	0	615	10	0
17	Bq	621	0	615	10	0
18	Ar	446	0	482	18	0
18	Br	446	0	482	7	0
19	As	636	0	626	10	0
19	Bs	636	0	626	10	0
20	At	591	0	616	6	0
20	Bt	591	0	616	5	0
21	Au	400	0	407	4	0
21	Bu	400	0	407	3	0
22	Av	1333	0	1349	83	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	Bv	1333	0	1349	85	0
23	AA	62277	0	31301	723	0
23	BA	62277	0	31301	721	0
24	AB	2445	0	1241	16	0
24	BB	2445	0	1241	16	0
25	AC	2094	0	2203	86	0
25	BC	2094	0	2203	86	0
26	AD	1627	0	1667	61	0
26	BD	1627	0	1667	59	0
27	AE	1572	0	1619	43	0
27	BE	1572	0	1619	44	0
28	AF	1325	0	1342	52	0
28	BF	1325	0	1342	54	0
29	AG	1263	0	1225	25	0
29	BG	1263	0	1225	24	0
30	AH	1143	0	1134	15	0
30	BH	1143	0	1134	14	0
31	AI	918	0	980	35	0
31	BI	918	0	980	36	0
32	AJ	1086	0	1125	28	0
32	BJ	1086	0	1125	27	0
33	AK	1071	0	1123	27	0
33	BK	1071	0	1123	25	0
34	AL	932	0	983	27	0
34	BL	932	0	983	27	0
35	AM	891	0	925	21	0
35	BM	891	0	925	21	0
36	AN	889	0	937	21	0
36	BN	889	0	937	22	0
37	AO	942	0	1014	28	0
37	BO	942	0	1014	29	0
38	AP	790	0	830	13	0
38	BP	790	0	830	12	0
39	AQ	854	0	914	17	0
39	BQ	854	0	914	16	0
40	AR	715	0	748	22	0
40	BR	715	0	748	21	0
41	AS	770	0	809	19	0
41	BS	770	0	809	19	0
42	AT	722	0	766	4	0
42	BT	722	0	766	5	0
43	AU	622	0	643	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	BU	622	0	643	9	0
44	AV	445	0	466	7	0
44	BV	445	0	466	7	0
45	AW	541	0	563	9	0
45	BW	541	0	563	8	0
46	AX	449	0	491	8	0
46	BX	449	0	491	8	0
47	AY	370	0	243	3	0
47	BY	370	0	243	3	0
48	AZ	360	0	358	23	0
48	BZ	360	0	358	20	0
49	A1	390	0	394	9	0
49	B1	390	0	394	8	0
50	A2	367	0	415	11	0
50	B2	367	0	415	11	0
51	A3	521	0	586	10	0
51	B3	521	0	586	10	0
52	A4	295	0	340	14	0
52	B4	295	0	340	14	0
All	All	281510	0	186494	3203	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 9.

The worst 5 of 3203 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)
23:BA:2717:A:N7	34:BL:3:TYR:CD1	1.68	1.59
23:AA:2717:A:N7	34:AL:3:TYR:CD1	1.68	1.57
15:Ao:56:LEU:CD2	23:AA:761:A:C5'	1.84	1.54
15:Bo:56:LEU:CD2	23:BA:761:A:C5'	1.84	1.52
15:Bo:56:LEU:CD2	23:BA:761:A:O5'	1.65	1.43

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	Aa	1537/1539 (99%)	470 (30%)	0
1	Ba	1537/1539 (99%)	468 (30%)	0
23	AA	2896/2923 (99%)	795 (27%)	26 (0%)
23	BA	2896/2923 (99%)	795 (27%)	24 (0%)
24	AB	114/115 (99%)	16 (14%)	0
24	BB	114/115 (99%)	16 (14%)	0
All	All	9094/9154 (99%)	2560 (28%)	50 (0%)

5 of 2560 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	Aa	6	U
1	Aa	8	G
1	Aa	9	A
1	Aa	10	G
1	Aa	23	G

5 of 50 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
23	BA	267	G
23	BA	577	A
23	BA	2783	U
23	BA	268	A
23	BA	487	U

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
23	AA	6
23	BA	6
1	Aa	1
1	Ba	1
24	BB	1
24	AB	1
13	Am	1
13	Bm	1

The worst 5 of 18 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AA	2207:U	O3'	2208:A	P	9.06
1	BA	2207:U	O3'	2208:A	P	9.06
1	AA	2132:A	O3'	2133:G	P	8.44
1	BA	2132:A	O3'	2133:G	P	8.44
1	AA	1096:C	O3'	1097:U	P	6.77

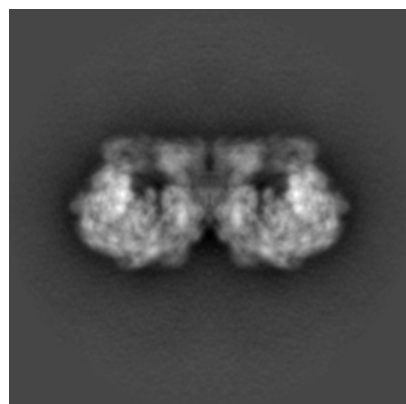
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-3637. These allow visual inspection of the internal detail of the map and identification of artifacts.

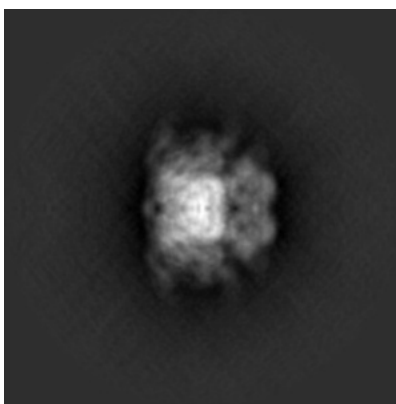
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

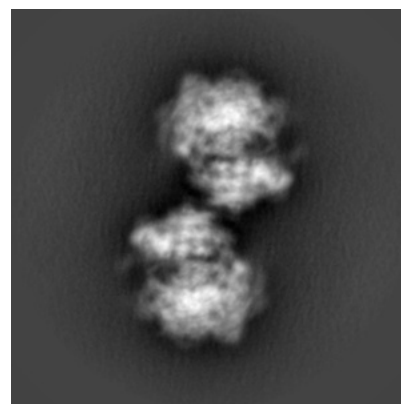
6.1.1 Primary map



X

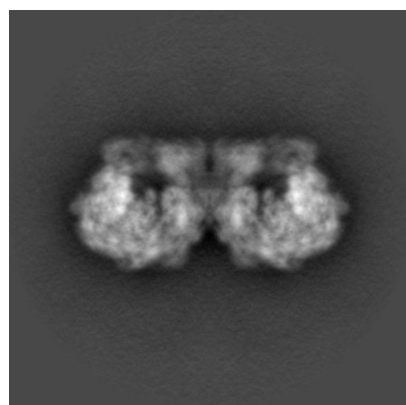


Y

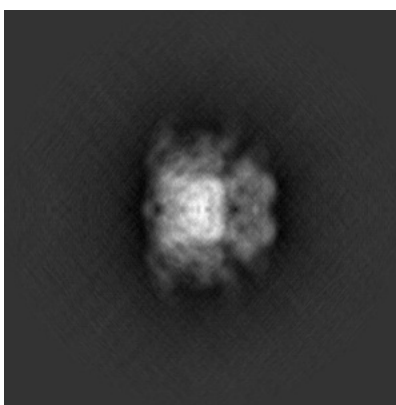


Z

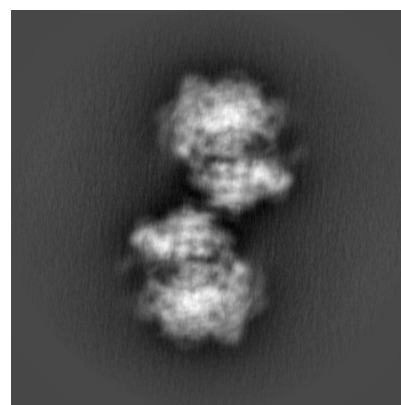
6.1.2 Raw map



X



Y

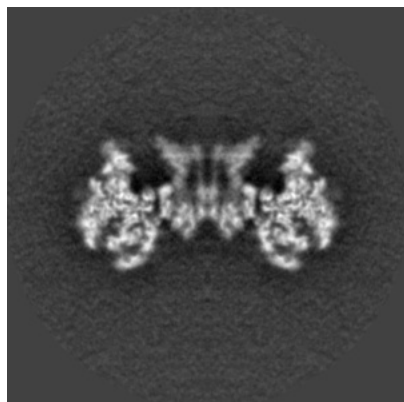


Z

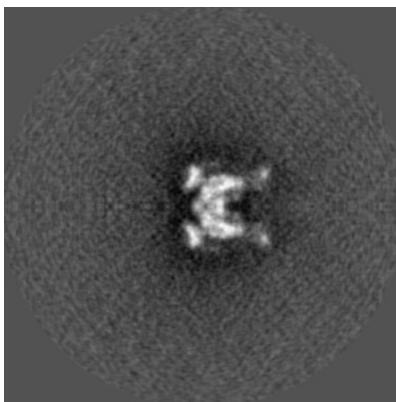
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

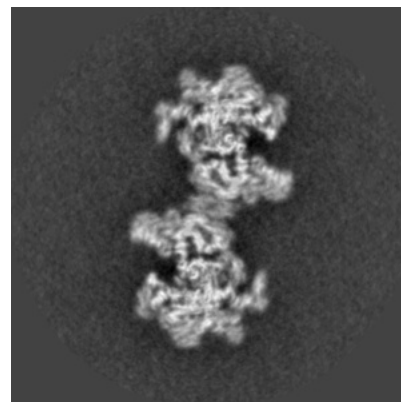
6.2.1 Primary map



X Index: 200

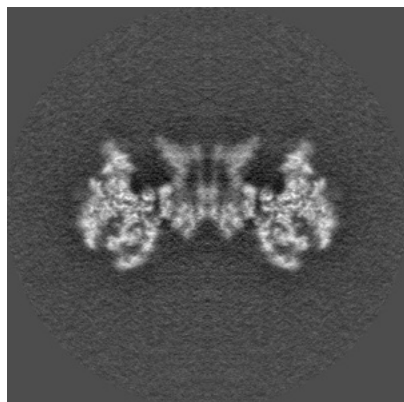


Y Index: 200

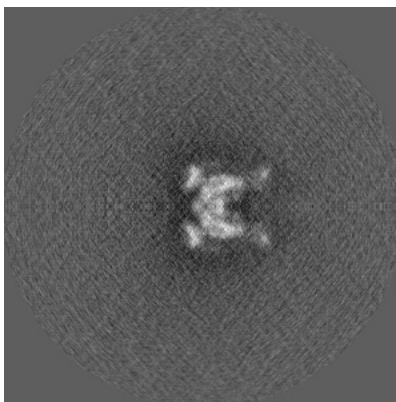


Z Index: 200

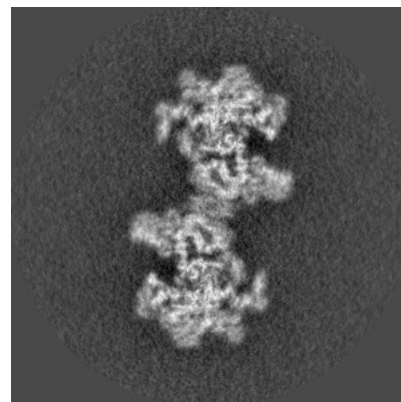
6.2.2 Raw map



X Index: 200



Y Index: 200

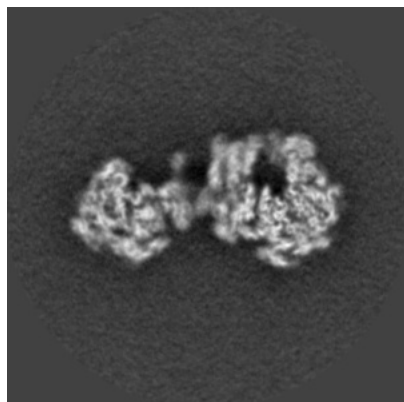


Z Index: 200

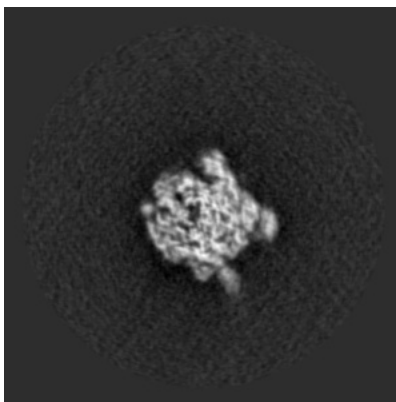
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

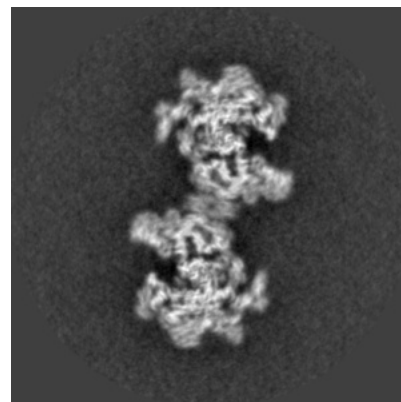
6.3.1 Primary map



X Index: 210

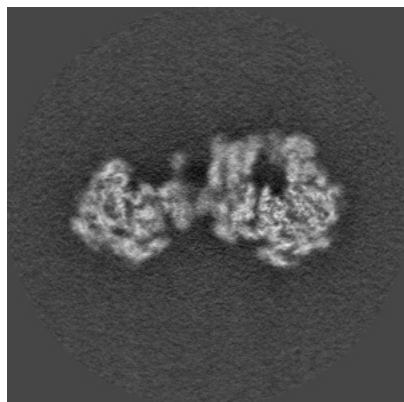


Y Index: 113

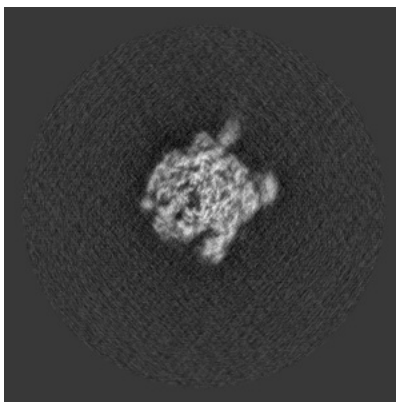


Z Index: 201

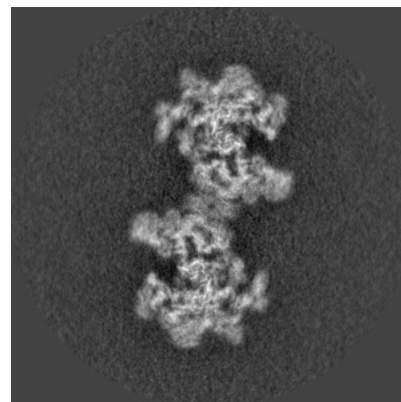
6.3.2 Raw map



X Index: 210



Y Index: 287

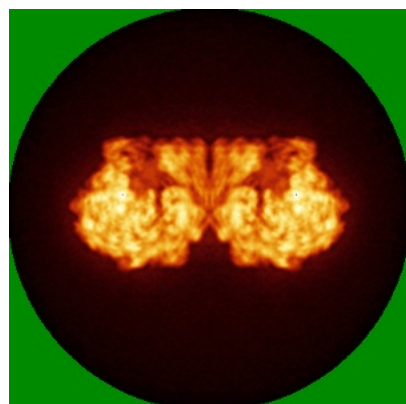


Z Index: 201

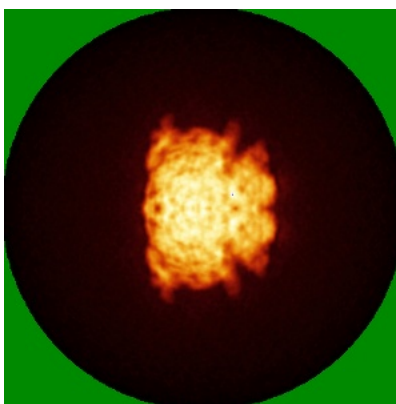
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

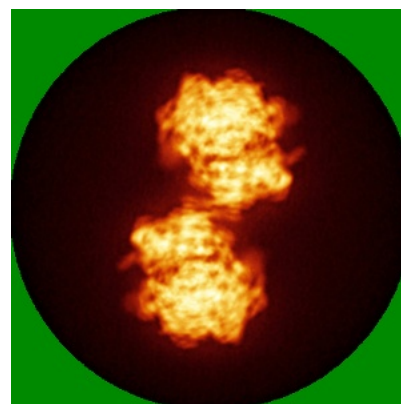
6.4.1 Primary map



X

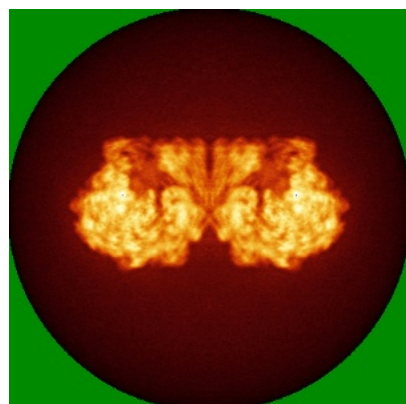


Y

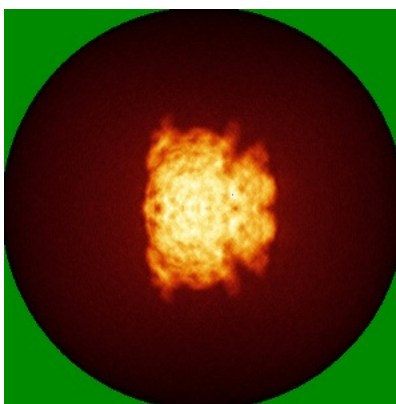


Z

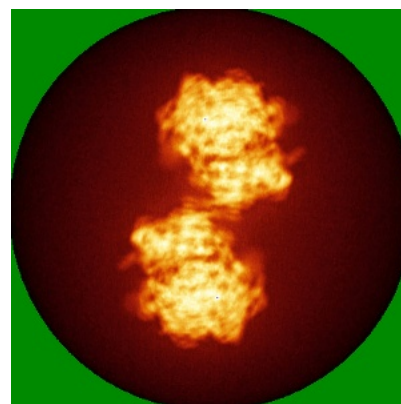
6.4.2 Raw map



X



Y

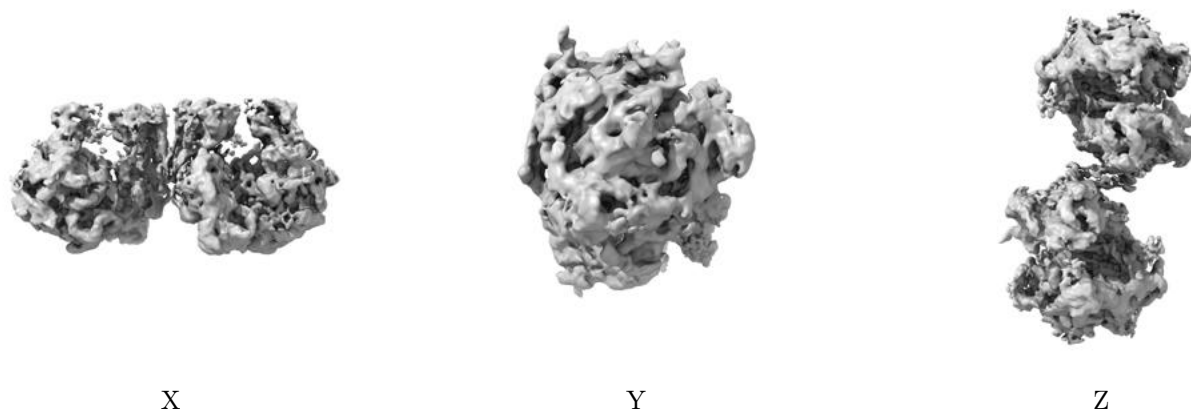


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.023. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

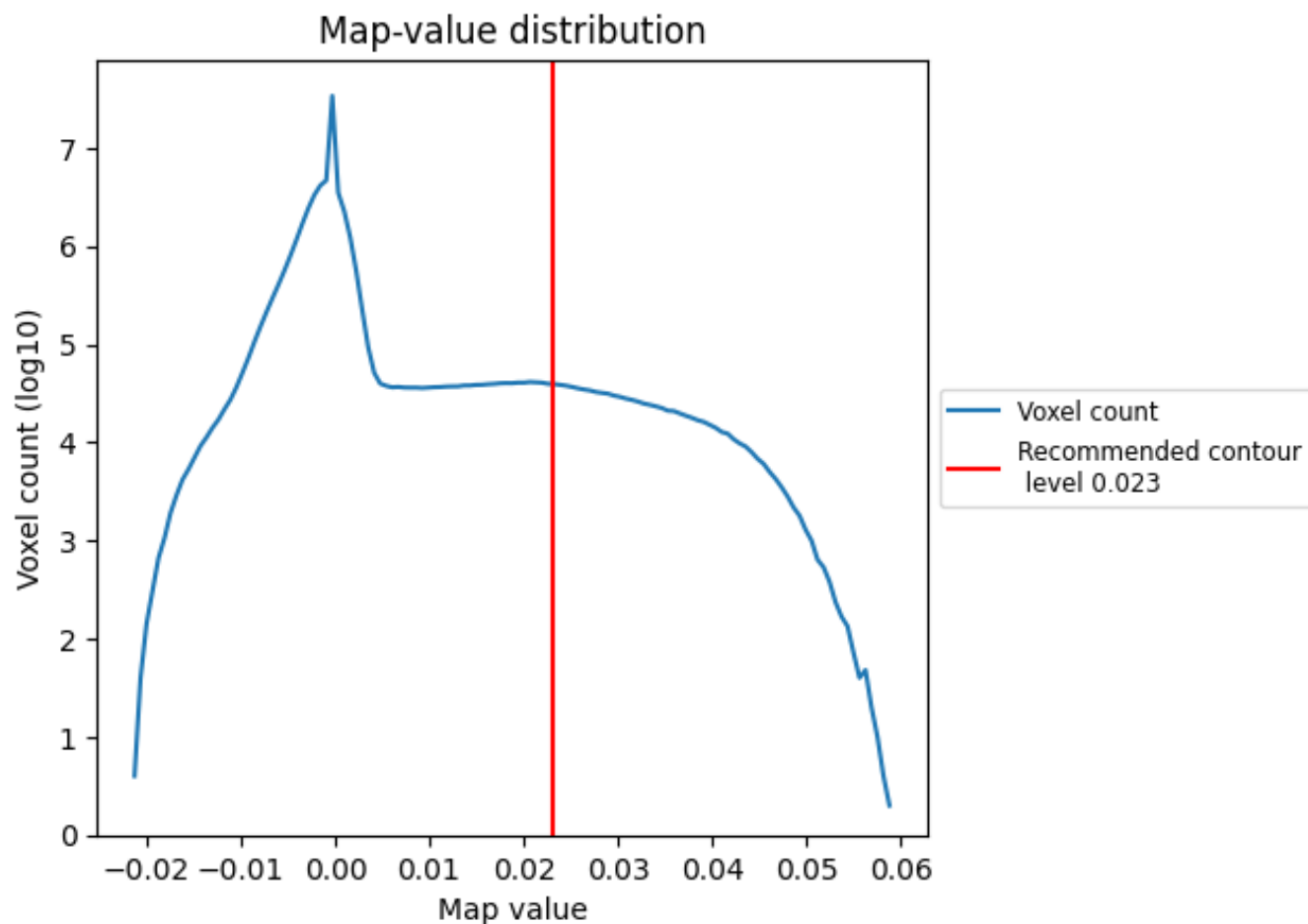
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

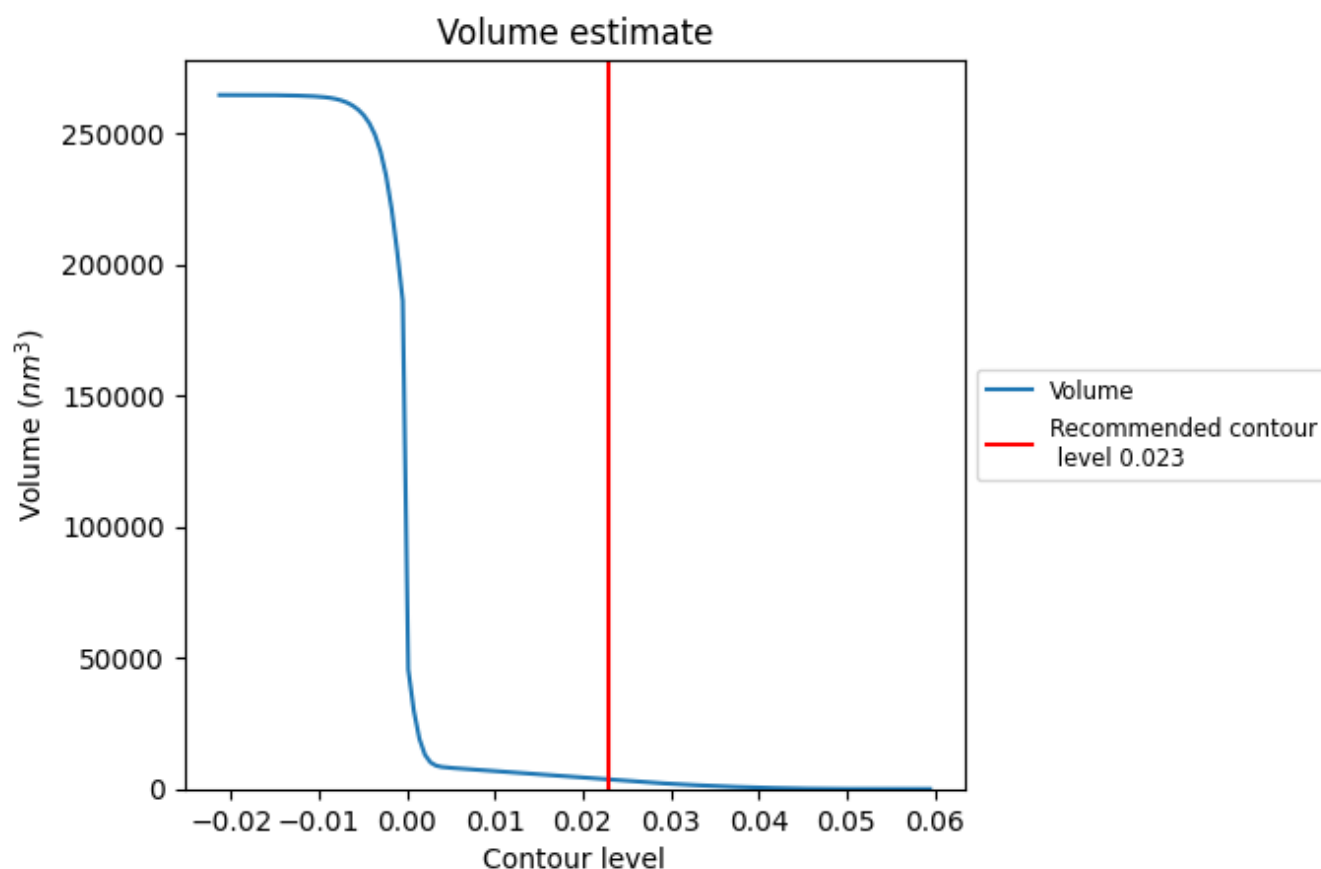
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

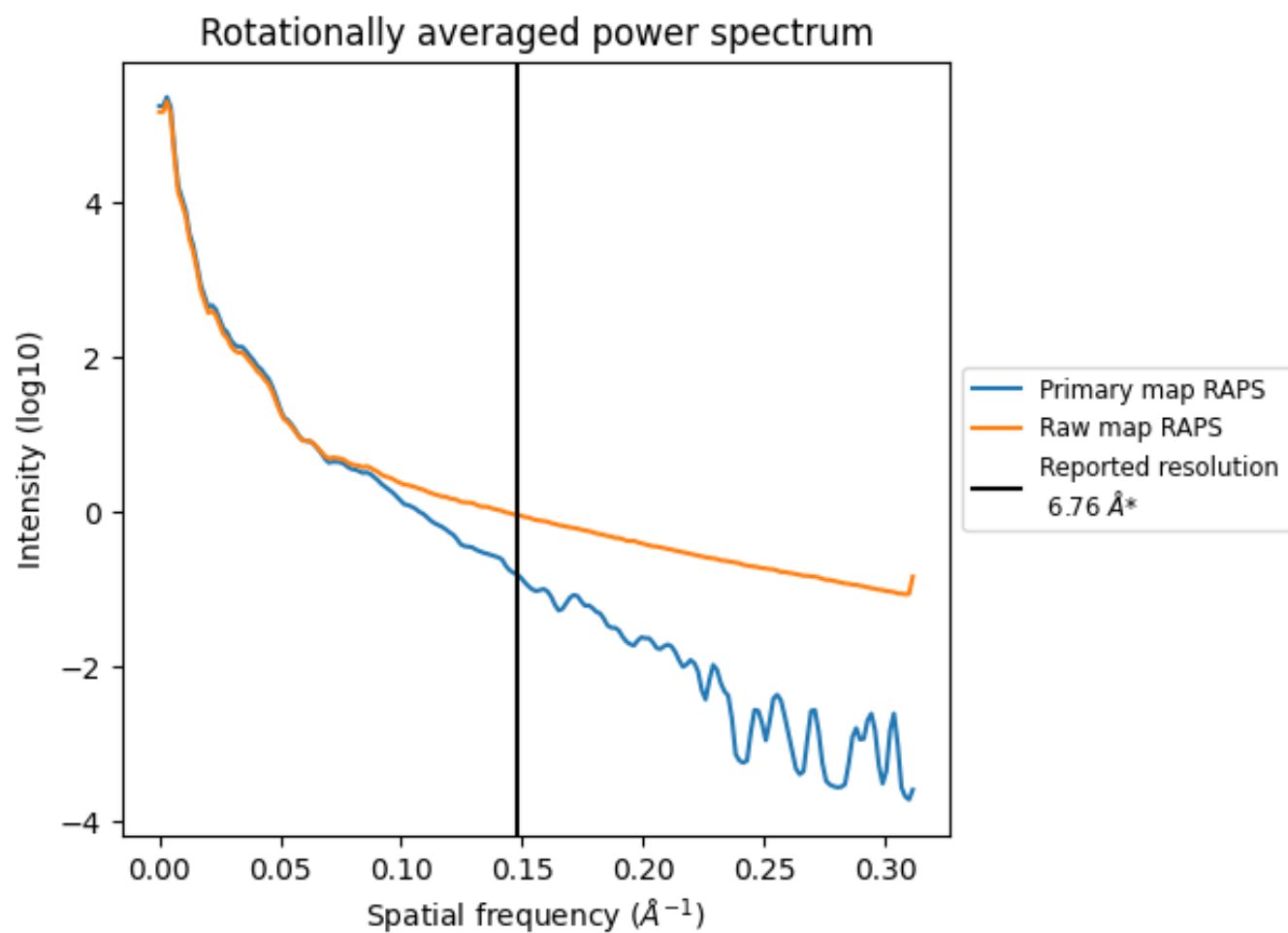
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3567 nm^3 ; this corresponds to an approximate mass of 3222 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

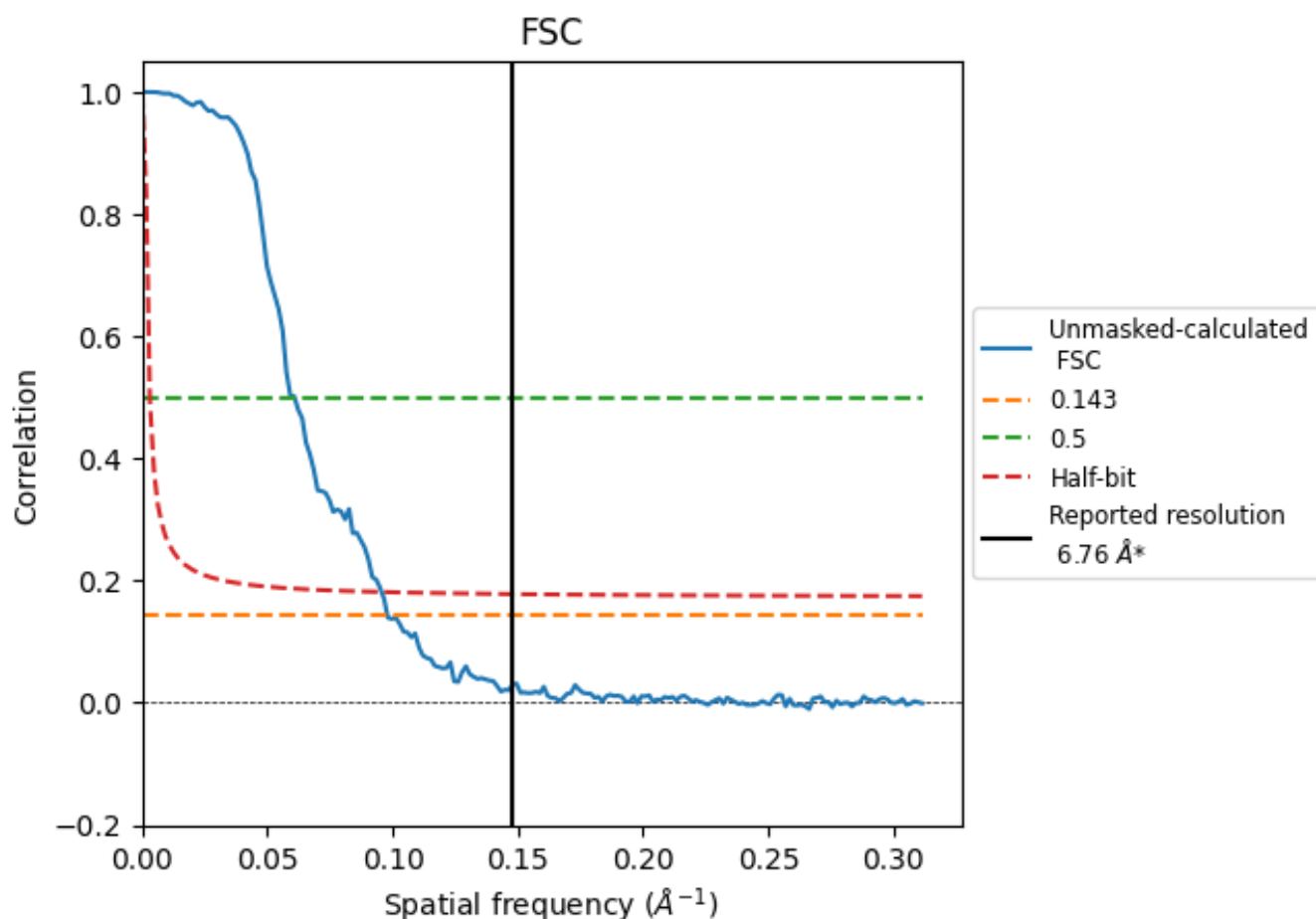


*Reported resolution corresponds to spatial frequency of 0.148 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.148 Å⁻¹

8.2 Resolution estimates [i](#)

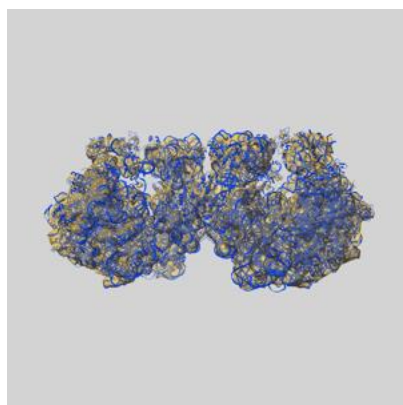
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.76	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	10.21	16.42	10.46

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 10.21 differs from the reported value 6.76 by more than 10 %

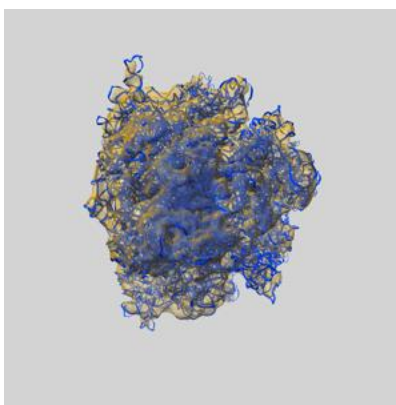
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-3637 and PDB model 6FXC. Per-residue inclusion information can be found in section 3 on page 17.

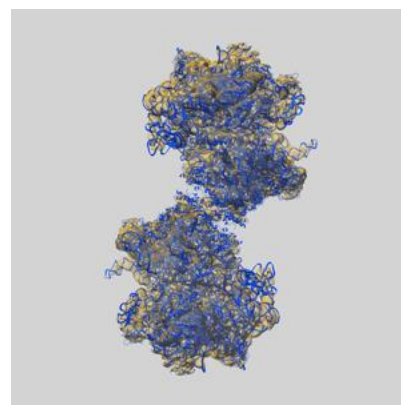
9.1 Map-model overlay [i](#)



X



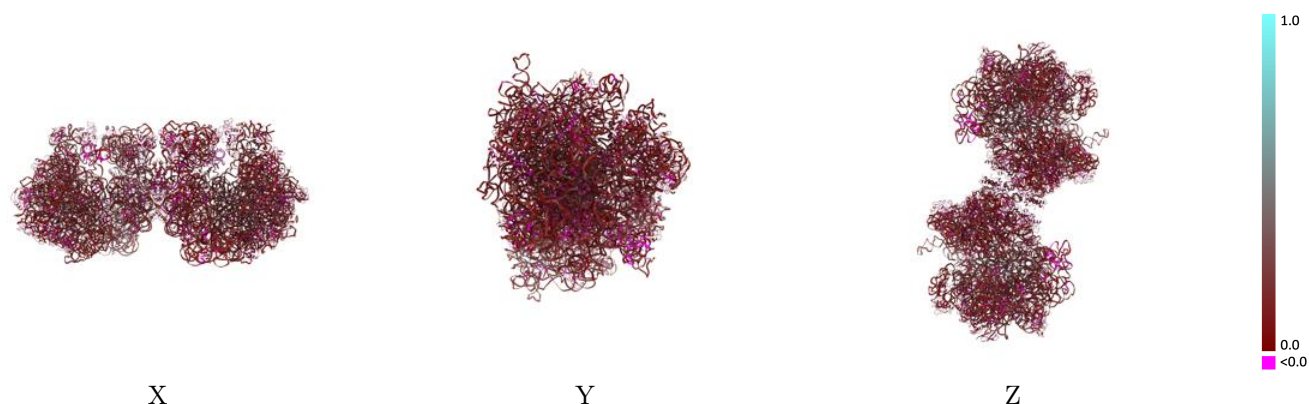
Y



Z

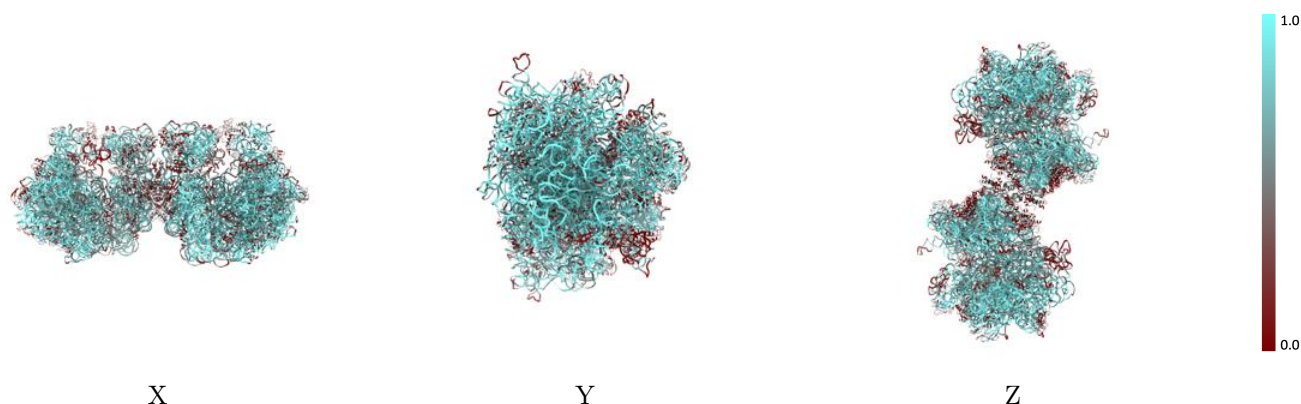
The images above show the 3D surface view of the map at the recommended contour level 0.023 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



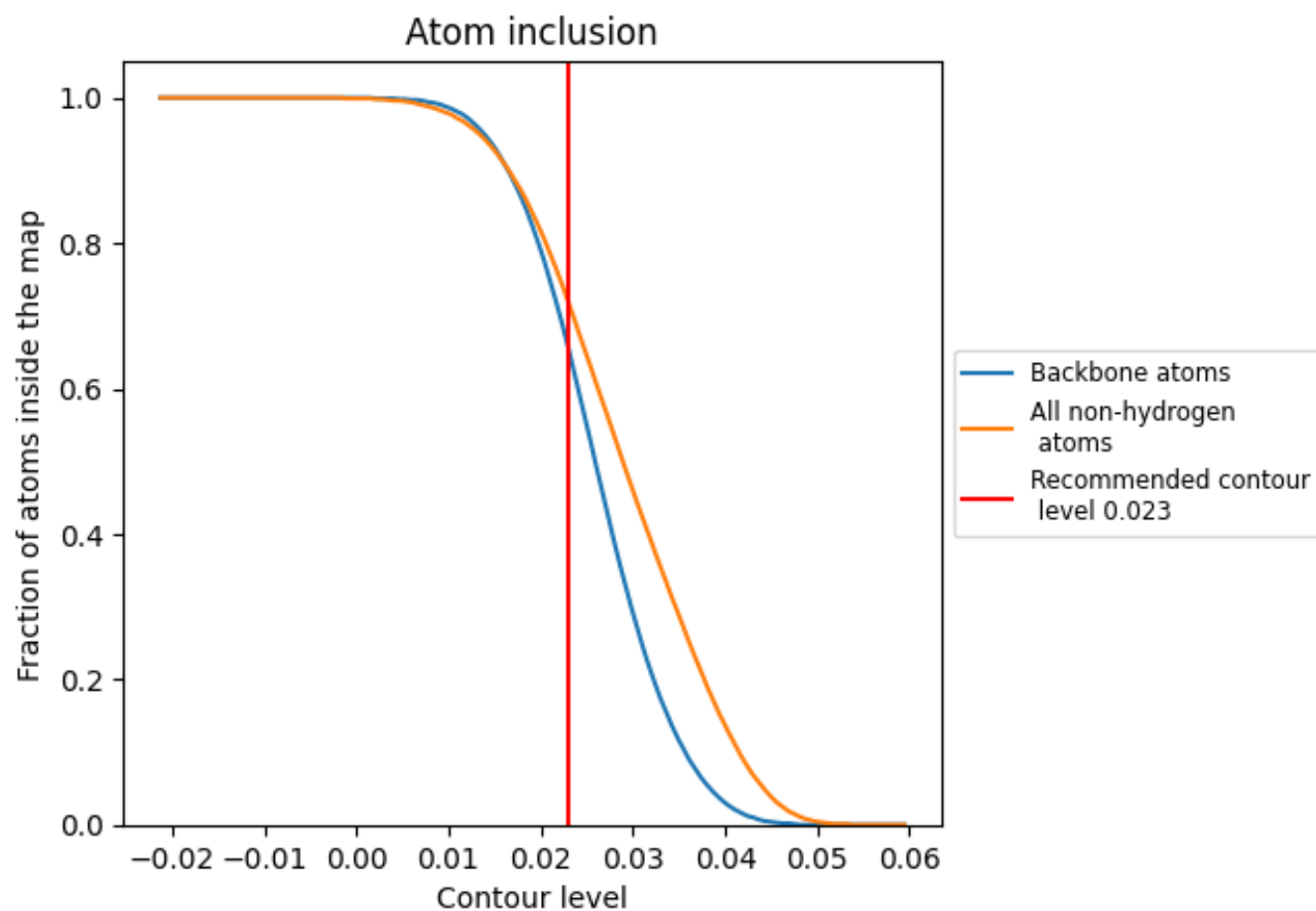
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.023).

9.4 Atom inclusion [i](#)



At the recommended contour level, 66% of all backbone atoms, 72% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.023) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7190	 0.1410
A1	 0.1950	 0.0740
A2	 0.6360	 0.0860
A3	 0.6430	 0.0790
A4	 0.7820	 0.0730
AA	 0.8410	 0.1650
AB	 0.8150	 0.1500
AC	 0.3940	 0.0970
AD	 0.5880	 0.1020
AE	 0.4630	 0.1010
AF	 0.3550	 0.1100
AG	 0.3850	 0.1160
AH	 0.6240	 0.0920
AI	 0.2980	 0.1400
AJ	 0.4470	 0.0740
AK	 0.5650	 0.1370
AL	 0.5920	 0.0940
AM	 0.6570	 0.1060
AN	 0.4770	 0.1290
AO	 0.7150	 0.0990
AP	 0.5130	 0.1050
AQ	 0.4950	 0.0790
AR	 0.6220	 0.0850
AS	 0.4400	 0.0870
AT	 0.2370	 0.0990
AU	 0.7100	 0.1040
AV	 0.3380	 0.0690
AW	 0.4420	 0.1080
AX	 0.3450	 0.1120
AY	 0.1170	 0.1090
AZ	 0.5590	 0.0690
Aa	 0.8310	 0.1470
Ab	 0.3010	 0.1100
Ac	 0.2630	 0.1170
Ad	 0.5460	 0.1000



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Chain	Atom inclusion	Q-score
Ae	0.2430	0.1020
Af	0.3780	0.1040
Ag	0.2830	0.1110
Ah	0.4310	0.1020
Ai	0.4220	0.0680
Aj	0.4240	0.0600
Ak	0.4080	0.1020
Al	0.3380	0.1140
Am	0.4160	0.0890
An	0.7470	0.0700
Ao	0.5750	0.0960
Ap	0.5260	0.0830
Aq	0.4370	0.0900
Ar	0.3610	0.1070
As	0.6060	0.0900
At	0.5570	0.0980
Au	0.0650	0.0350
Av	0.2790	0.1120
B1	0.1970	0.0840
B2	0.6360	0.0930
B3	0.6430	0.0810
B4	0.7820	0.0720
BA	0.8410	0.1670
BB	0.8150	0.1460
BC	0.3930	0.0990
BD	0.5880	0.0970
BE	0.4630	0.1040
BF	0.3550	0.1090
BG	0.3850	0.1140
BH	0.6230	0.0910
BI	0.2980	0.1420
BJ	0.4470	0.0790
BK	0.5650	0.1350
BL	0.5930	0.0930
BM	0.6560	0.1100
BN	0.4760	0.1250
BO	0.7150	0.0970
BP	0.5130	0.1060
BQ	0.4950	0.0760
BR	0.6210	0.0870
BS	0.4400	0.0890
BT	0.2370	0.0930

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Chain	Atom inclusion	Q-score
BU	 0.7100	 0.0990
BV	 0.3380	 0.0710
BW	 0.4400	 0.1140
BX	 0.3450	 0.1090
BY	 0.1170	 0.1110
BZ	 0.5590	 0.0670
Ba	 0.8310	 0.1470
Bb	 0.3010	 0.1110
Bc	 0.2630	 0.1140
Bd	 0.5470	 0.1000
Be	 0.2430	 0.0970
Bf	 0.3780	 0.1110
Bg	 0.2840	 0.1120
Bh	 0.4310	 0.0990
Bi	 0.4240	 0.0750
Bj	 0.4230	 0.0550
Bk	 0.4080	 0.1060
Bl	 0.3380	 0.1140
Bm	 0.4160	 0.0920
Bn	 0.7470	 0.0610
Bo	 0.5750	 0.0980
Bp	 0.5260	 0.0890
Bq	 0.4360	 0.0940
Br	 0.3610	 0.1120
Bs	 0.6060	 0.0860
Bt	 0.5570	 0.0990
Bu	 0.0650	 0.0430
Bv	 0.2790	 0.1120