



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 01:19 PM UTC

PDB ID : 1XI5 / pdb_00001xi5
EMDB ID : EMD-5120
Title : Clathrin D6 coat with auxilin J-domain
Authors : Fotin, A.; Cheng, Y.; Grigorieff, N.; Walz, T.; Harrison, S.C.; Kirchhausen, T.
Deposited on : 2004-09-21
Resolution : 12.00 Å (reported)
Based on initial models : 1BPO, 1B89, 1N4C

This is a Full wwPDB EM Validation 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

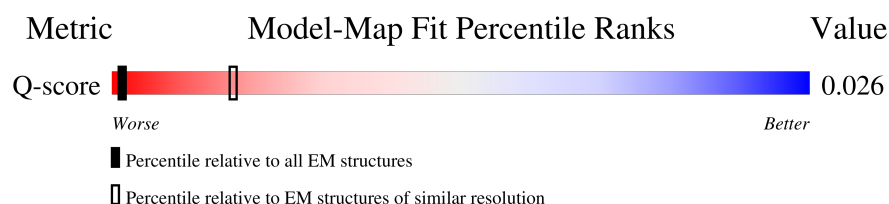
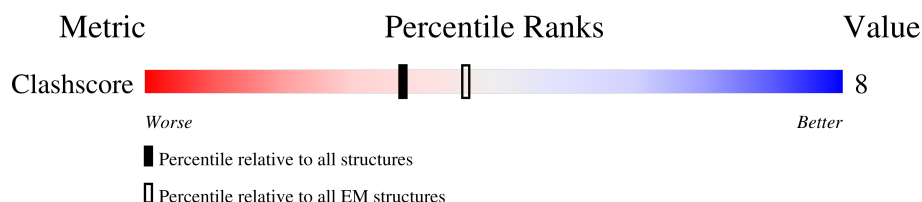
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

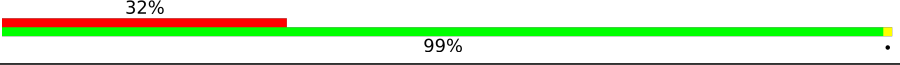
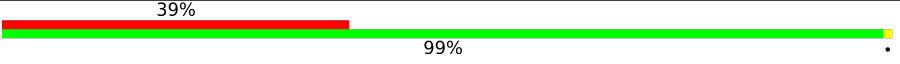
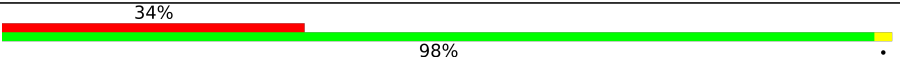
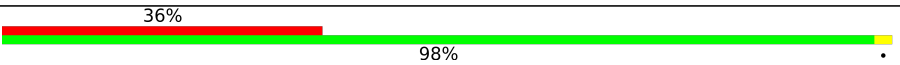
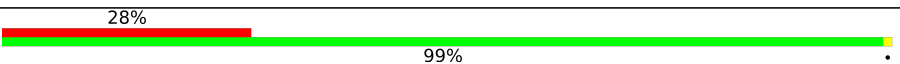
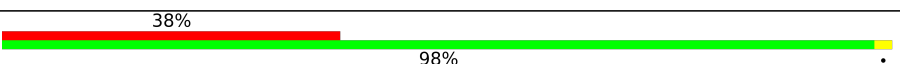
The reported resolution of this entry is 12.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Q-score	-	25397	93 (11.50 - 12.50)

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	A	1630	
1	B	1630	
1	C	1630	
1	D	1630	
1	E	1630	
1	F	1630	

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Mol	Chain	Length	Quality of chain
1	G	1630	41% 98%
1	H	1630	33% 99%
1	I	1630	47% 99%
2	J	114	97% 100%
2	K	114	100% 100%
2	L	114	100% 100%
2	M	114	96% 100%
2	N	114	99% 100%
2	O	114	89% 100%
2	P	114	100% 100%
2	Q	114	96% 100%
2	R	114	98% 100%

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 15696 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 protein called Clathrin heavy chain.

Mol	Chain	Residues	Atoms	AltConf	Trace
1	A	1630	Total C 1630 1630	0	1630
1	B	1630	Total C 1630 1630	0	1630
1	C	1630	Total C 1630 1630	0	1630
1	D	1630	Total C 1630 1630	0	1630
1	E	1630	Total C 1630 1630	0	1630
1	F	1630	Total C 1630 1630	0	1630
1	G	1630	Total C 1630 1630	0	1630
1	H	1630	Total C 1630 1630	0	1630
1	I	1630	Total C 1630 1630	0	1630

- Molecule 2 is a protein called Auxilin J-domain.

Mol	Chain	Residues	Atoms	AltConf	Trace
2	J	114	Total C 114 114	0	114
2	K	114	Total C 114 114	0	114
2	L	114	Total C 114 114	0	114
2	M	114	Total C 114 114	0	114
2	N	114	Total C 114 114	0	114
2	O	114	Total C 114 114	0	114

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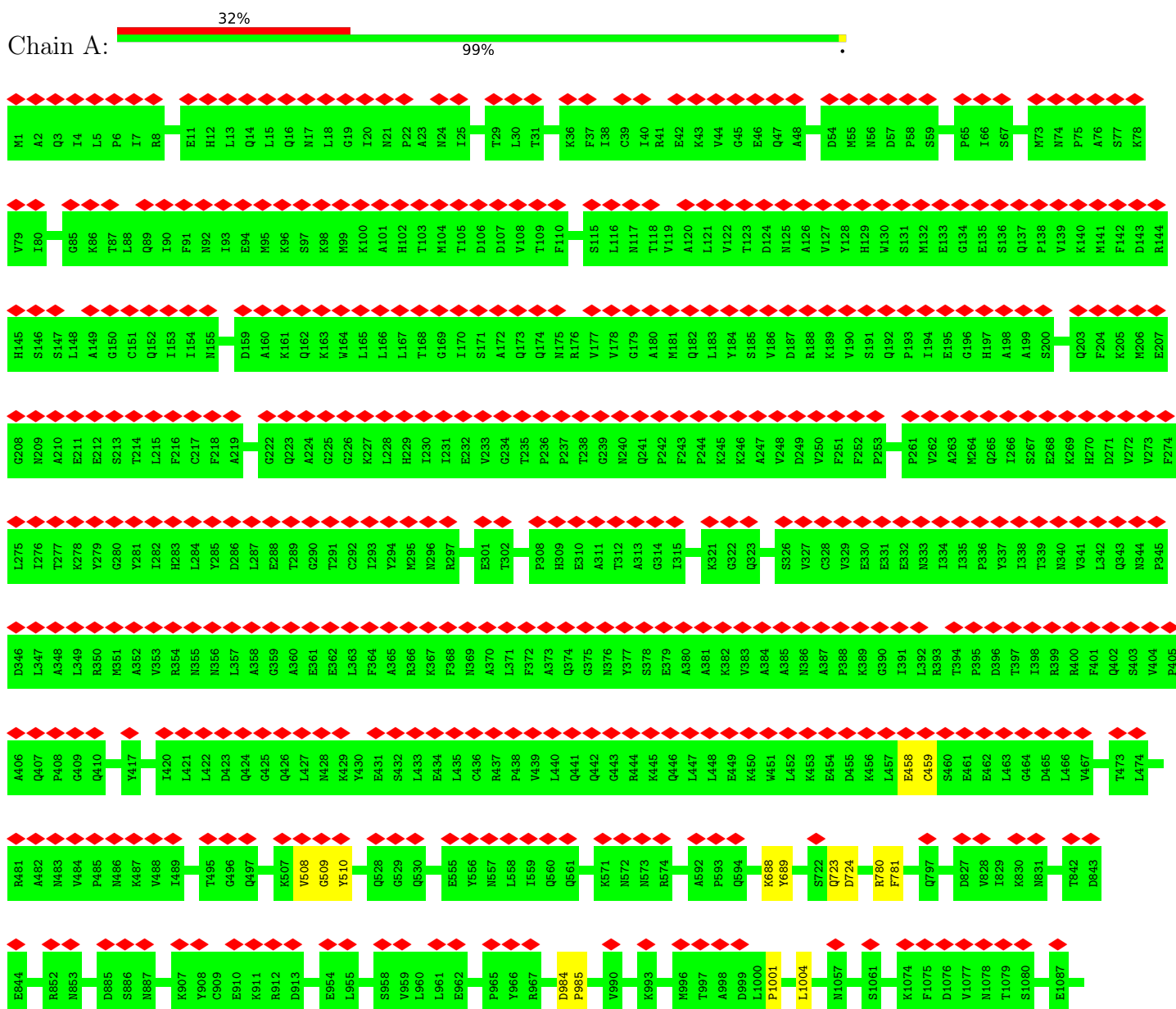
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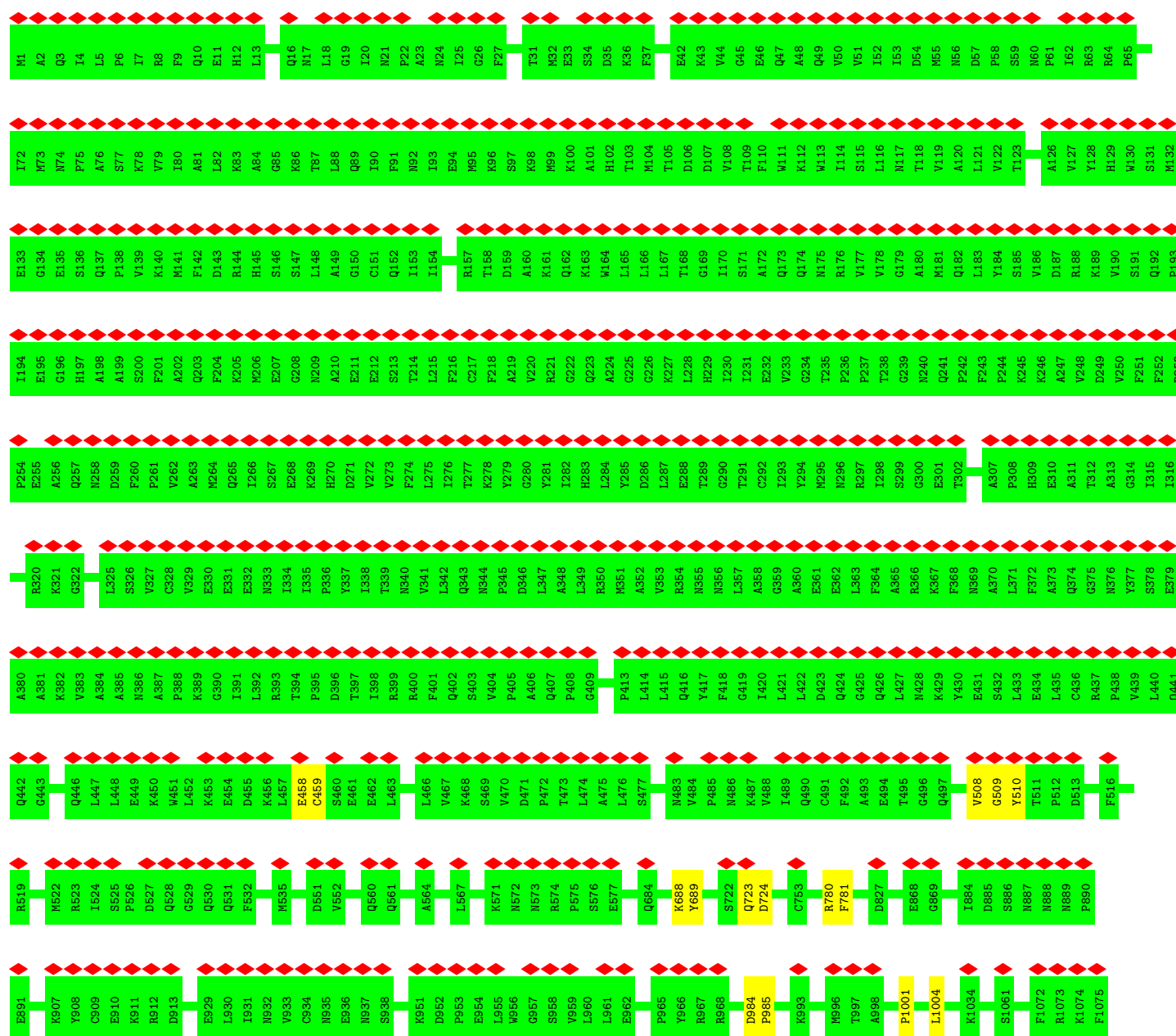
Mol	Chain	Residues	Atoms		AltConf	Trace
2	P	114	Total 114	C 114	0	114
2	Q	114	Total 114	C 114	0	114
2	R	114	Total 114	C 114	0	114

3 Residue-property plots

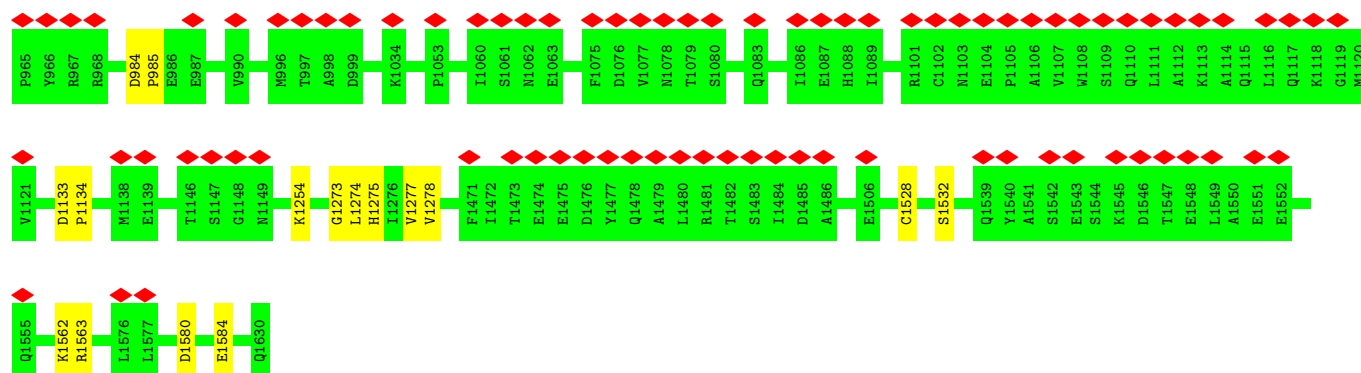
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

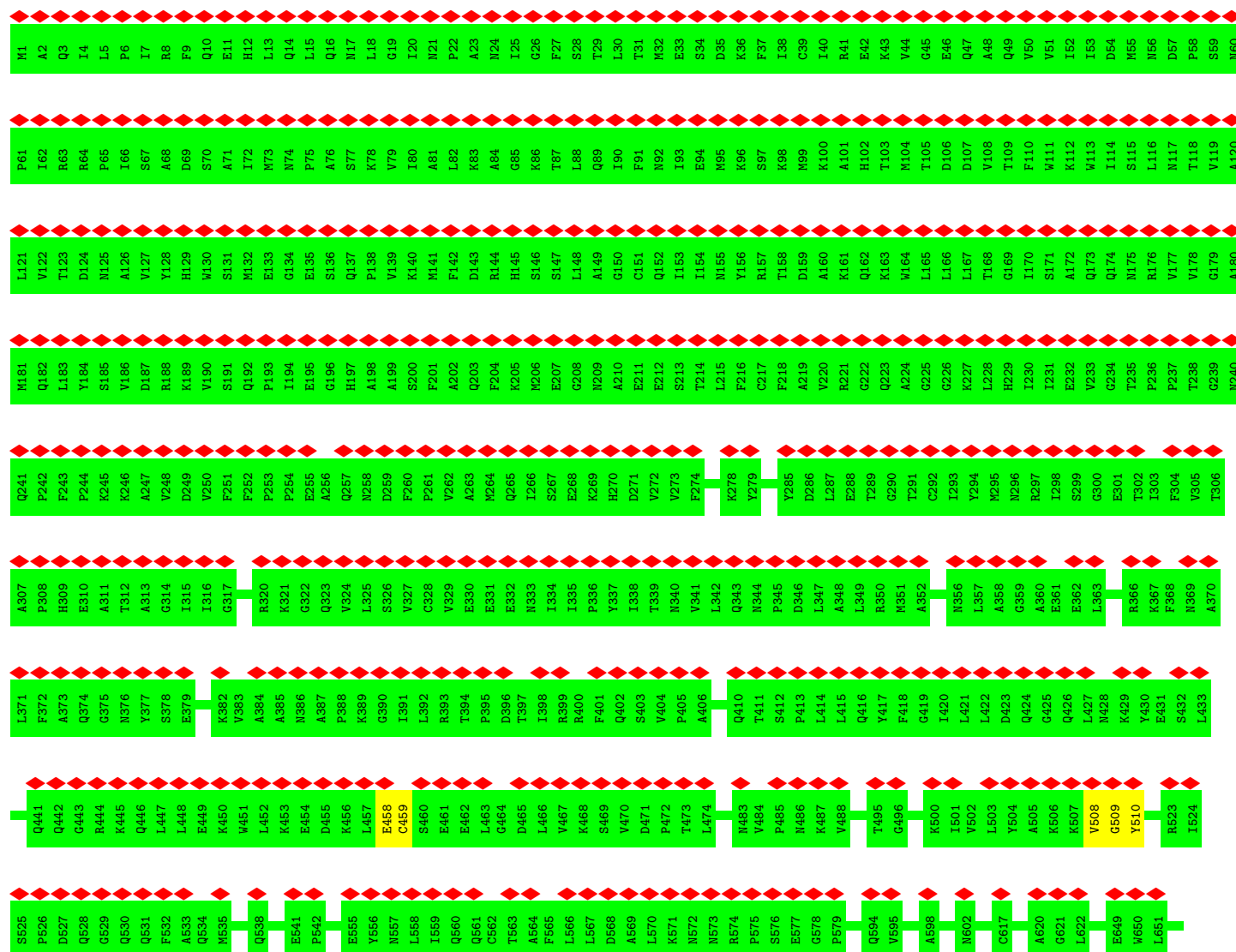


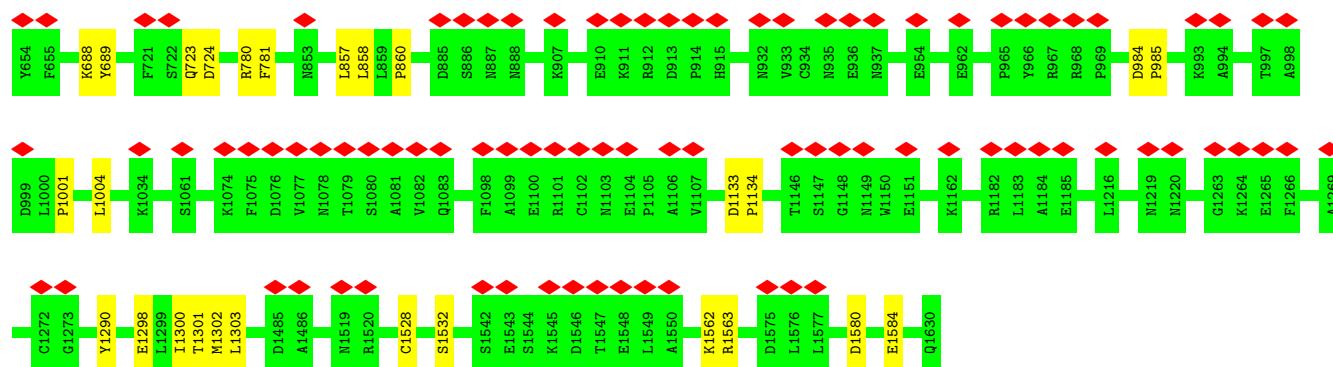




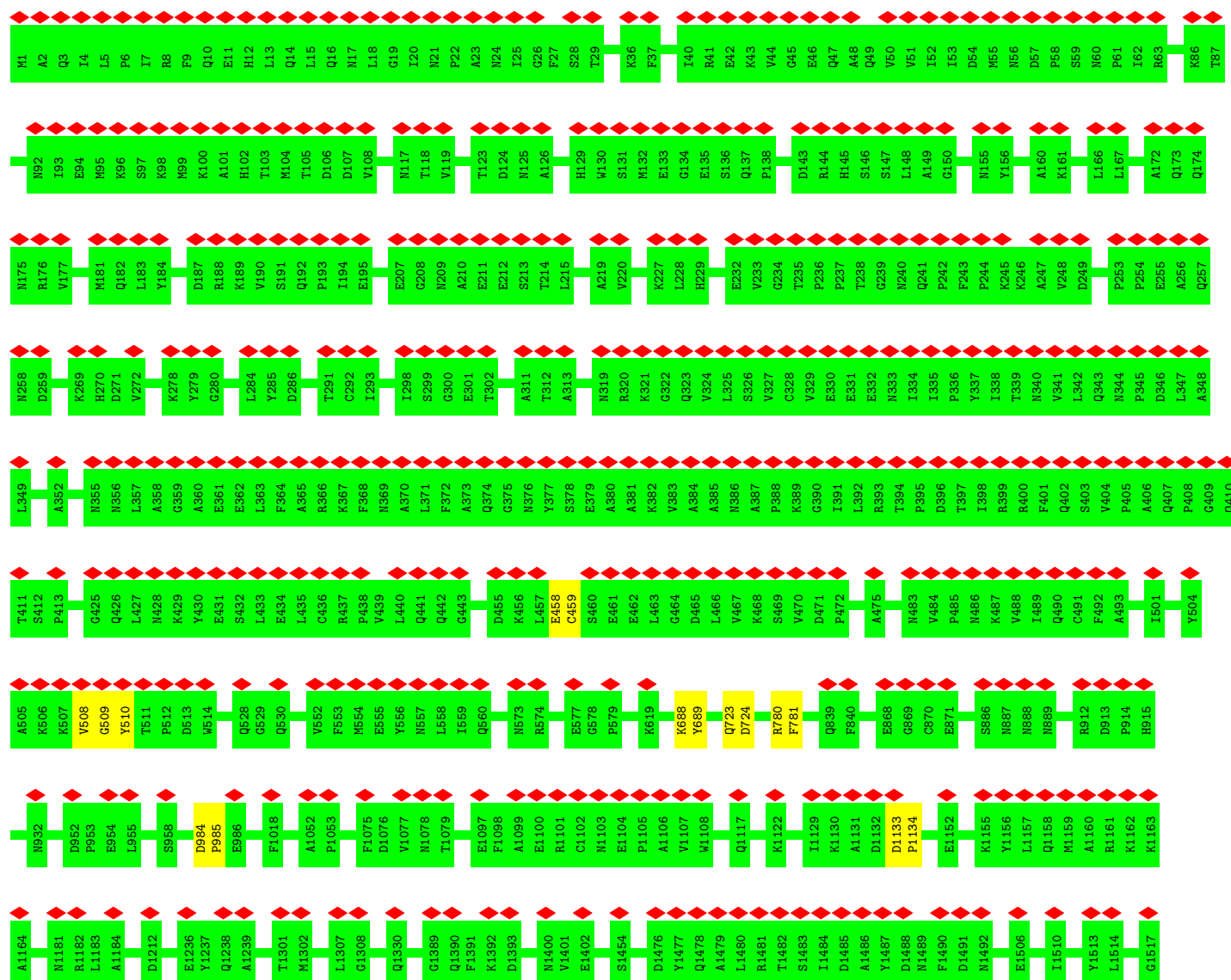


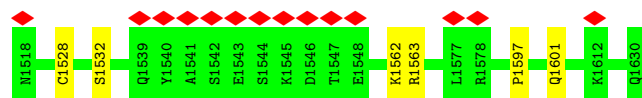
• Molecule 1: Clathrin heavy chain



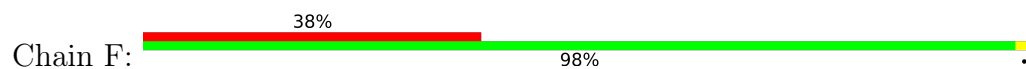


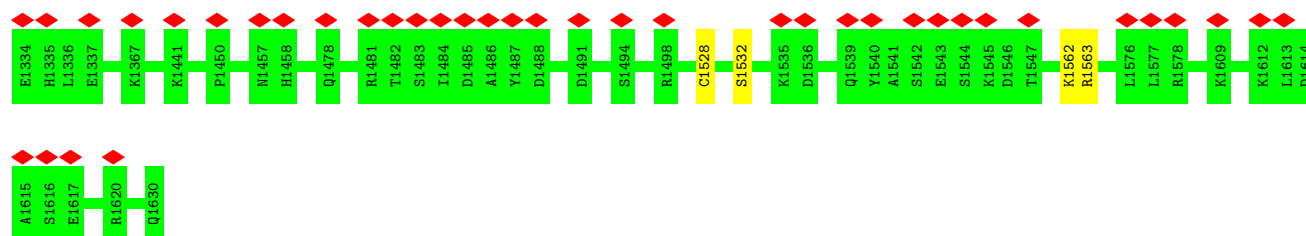
• Molecule 1: Clathrin heavy chain



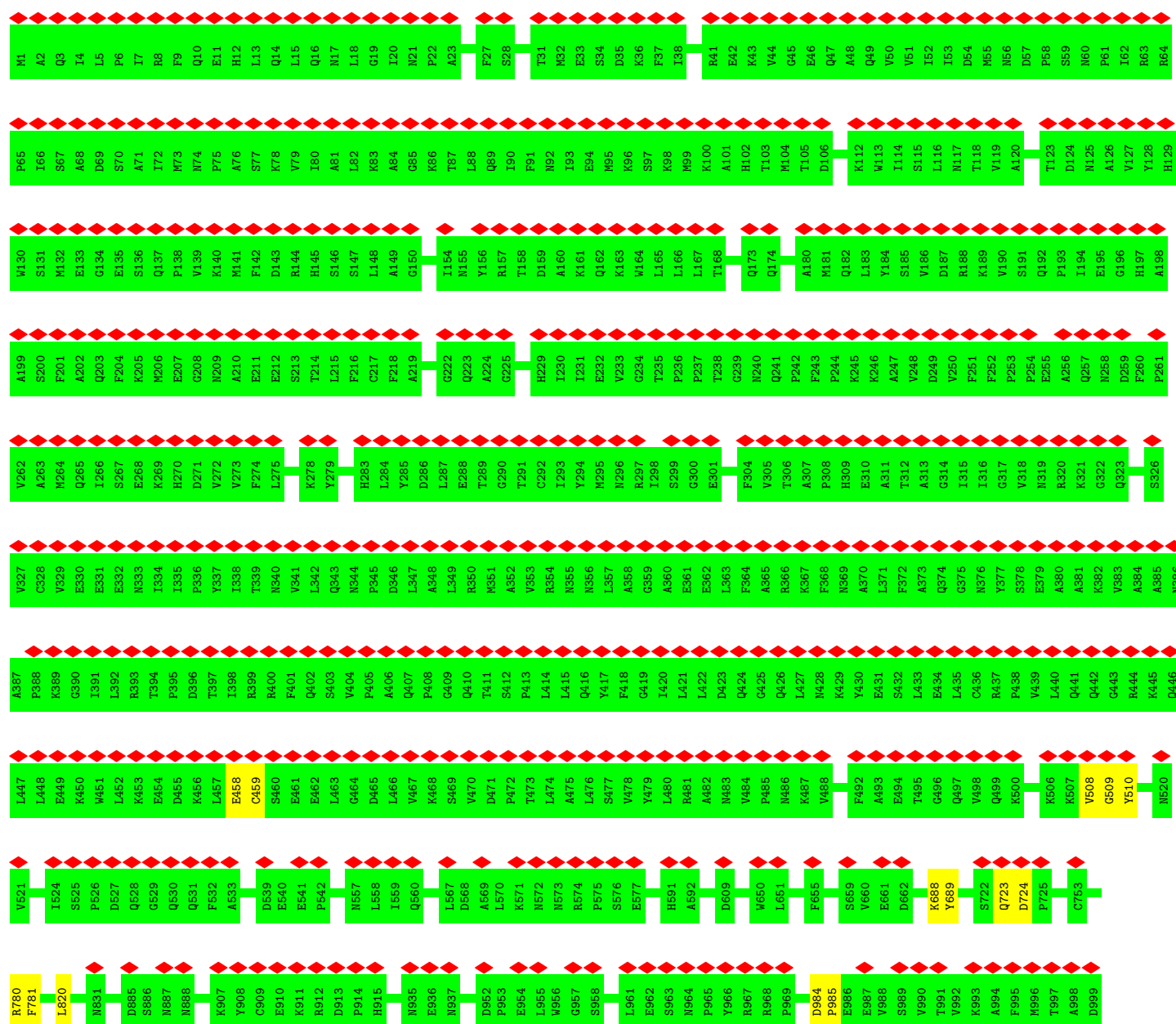
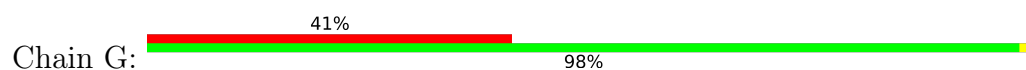


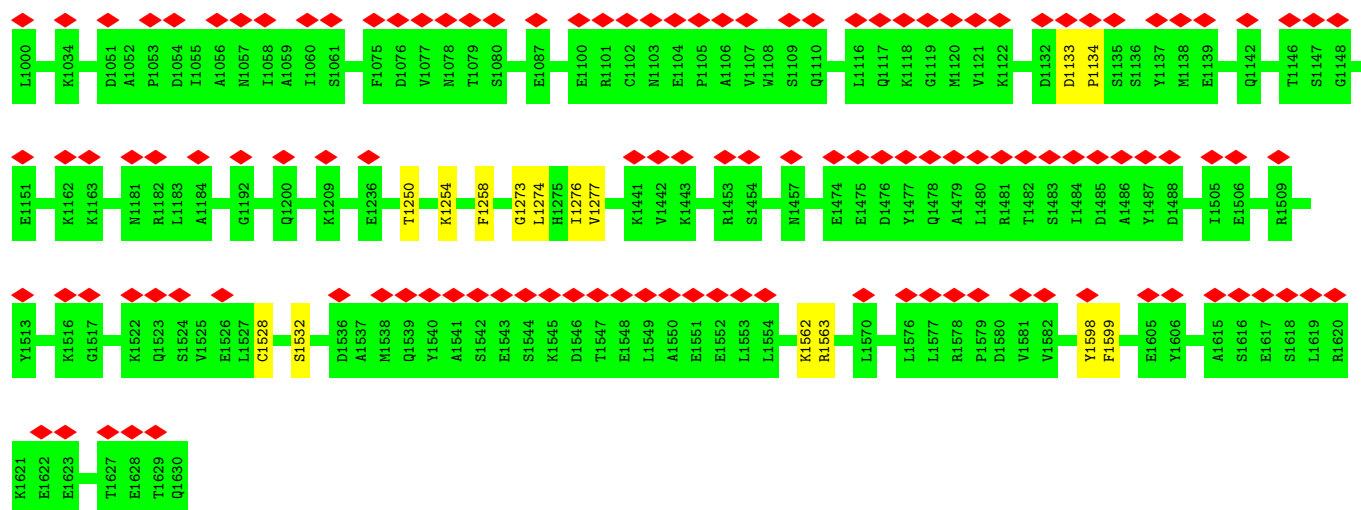
● Molecule 1: Clathrin heavy chain



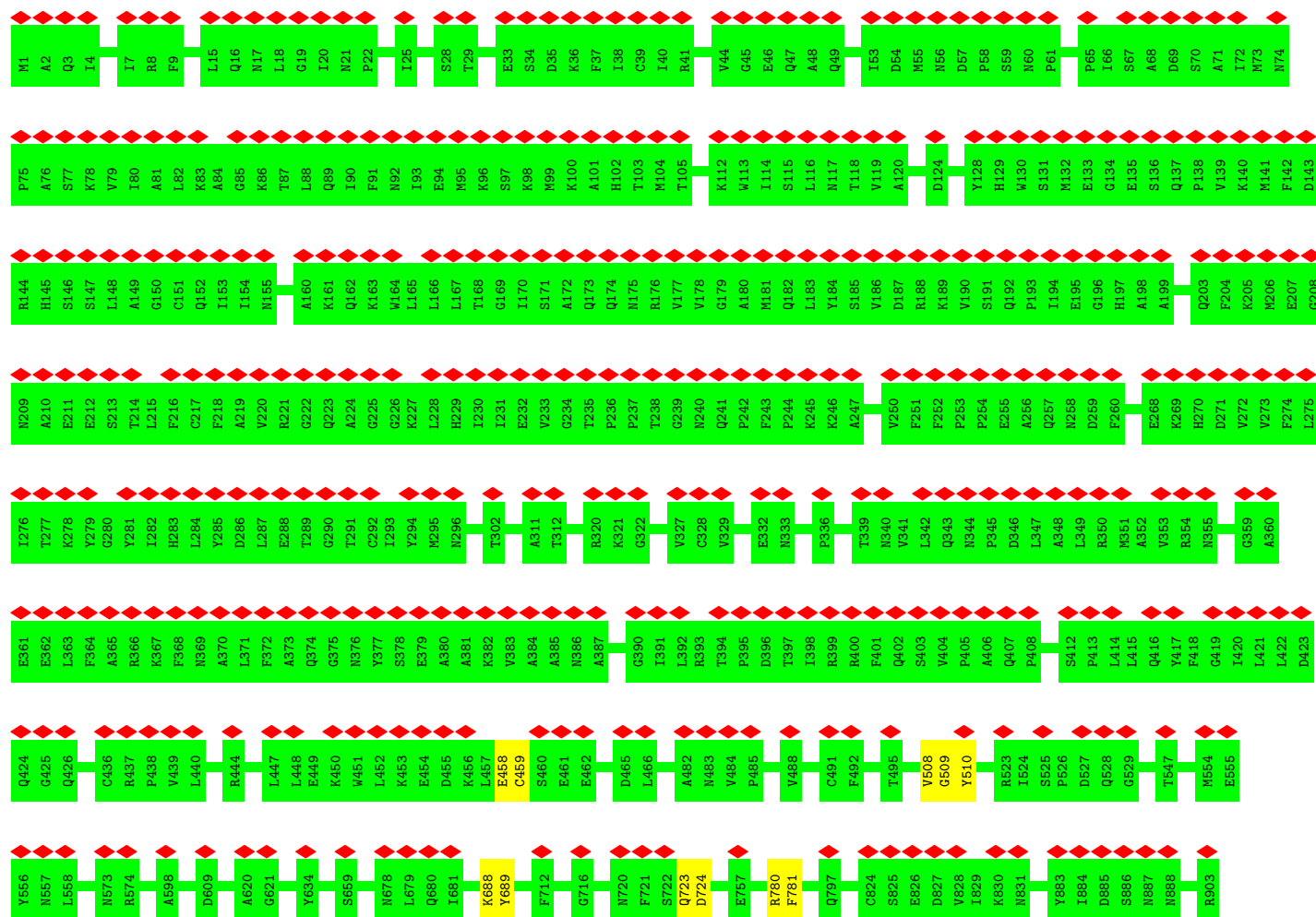


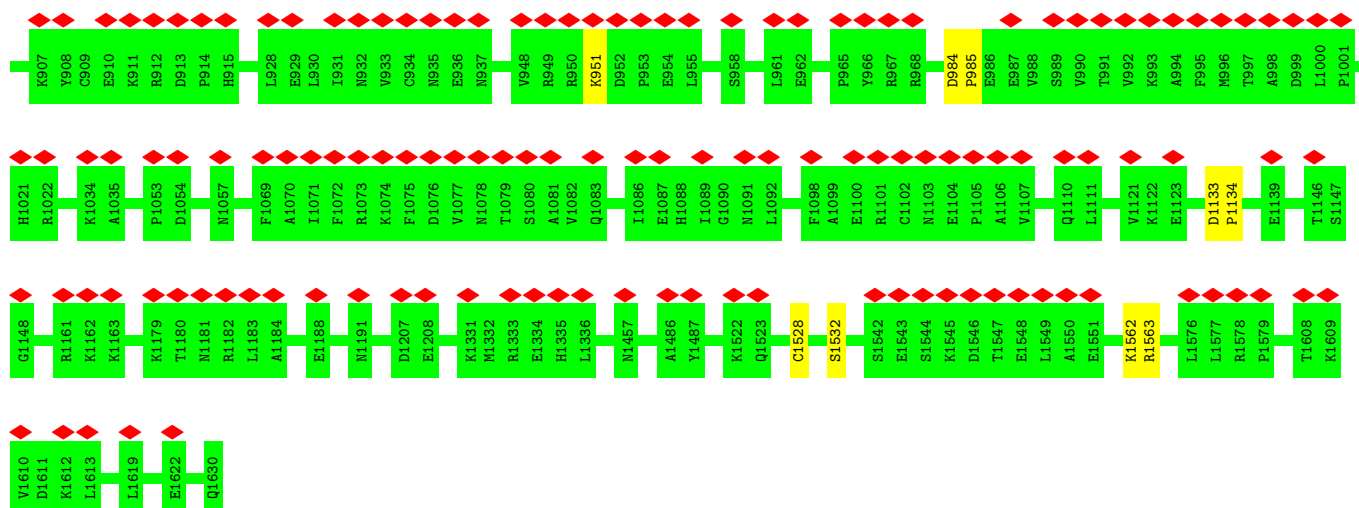
• Molecule 1: Clathrin heavy chain



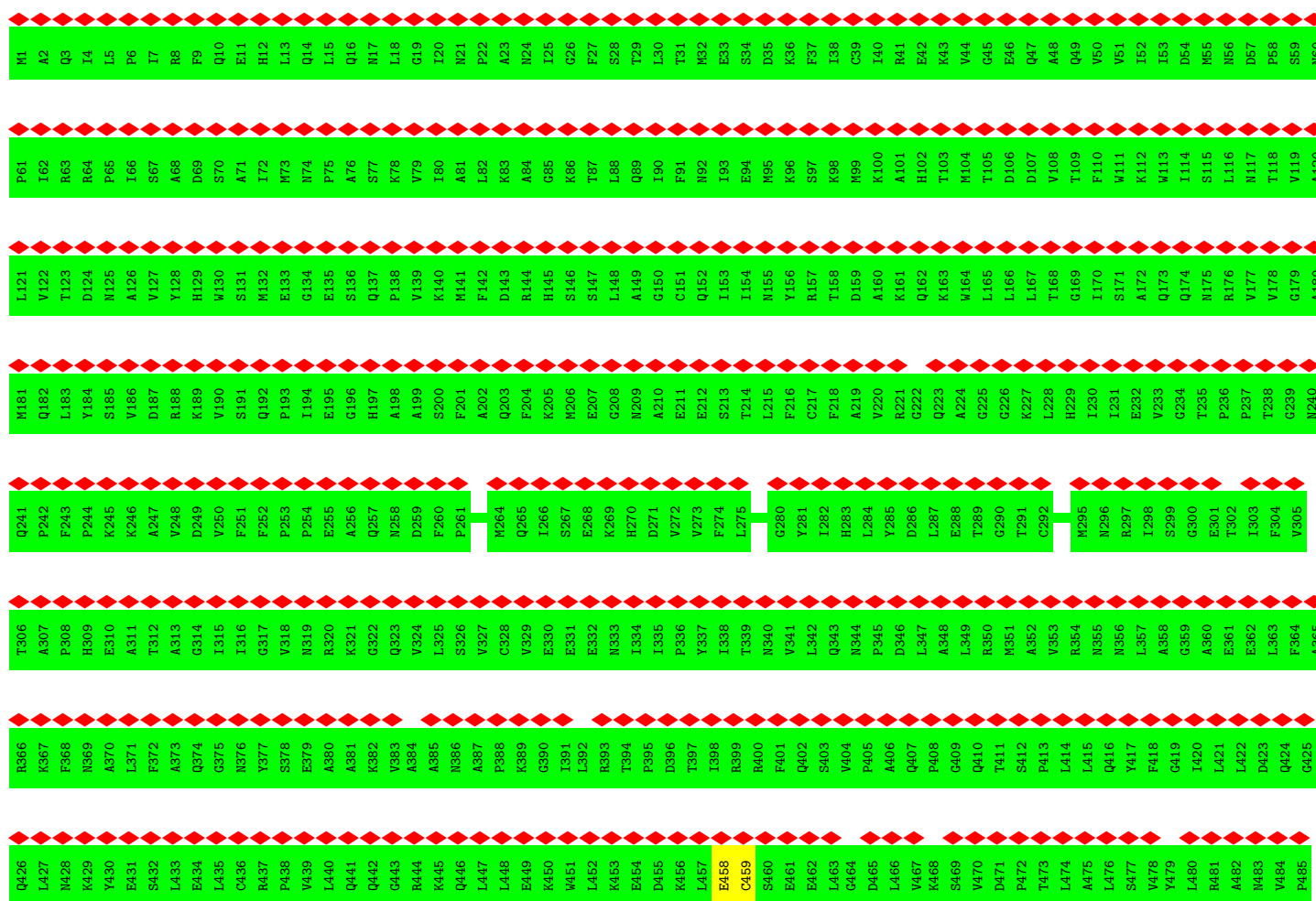


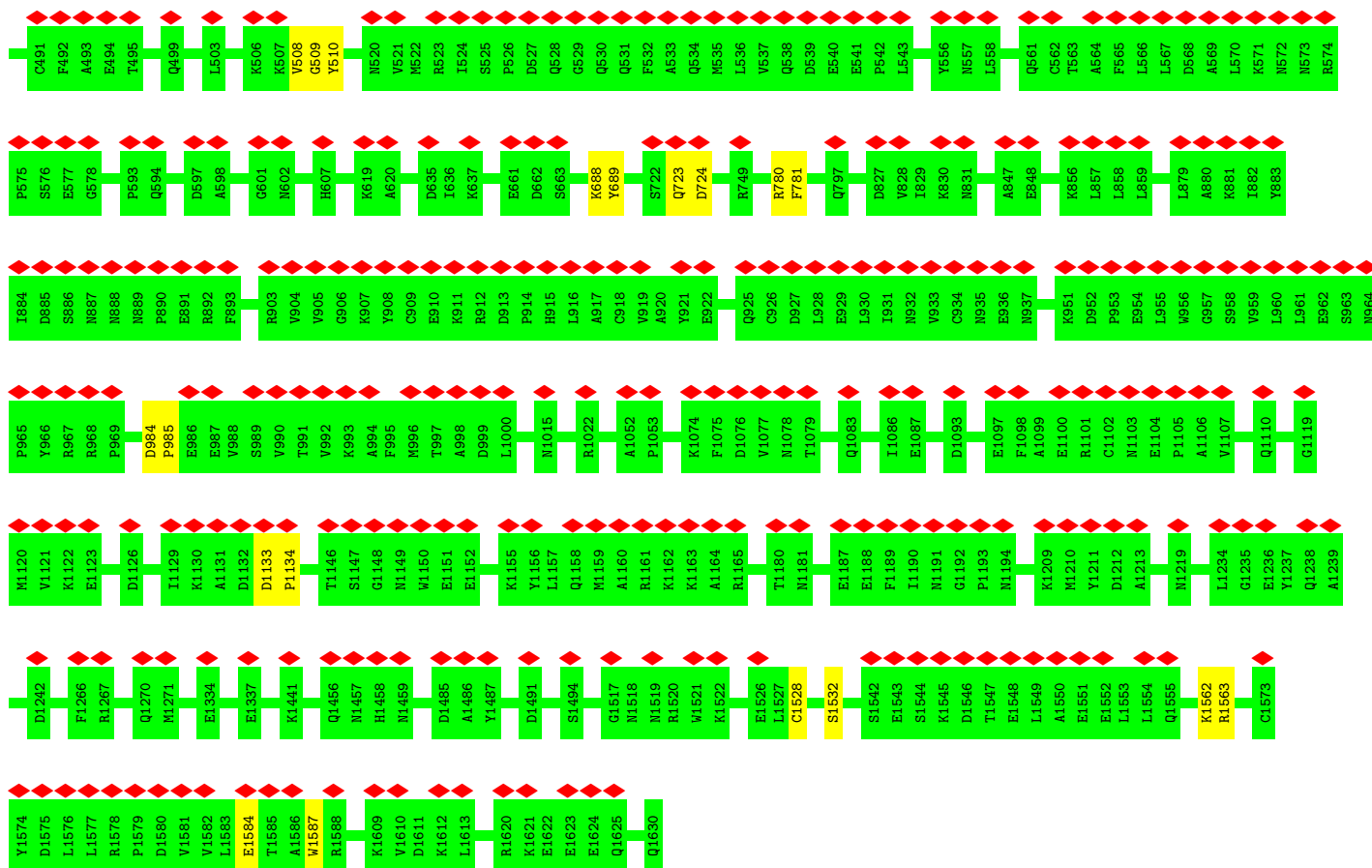
• Molecule 1: Clathrin heavy chain



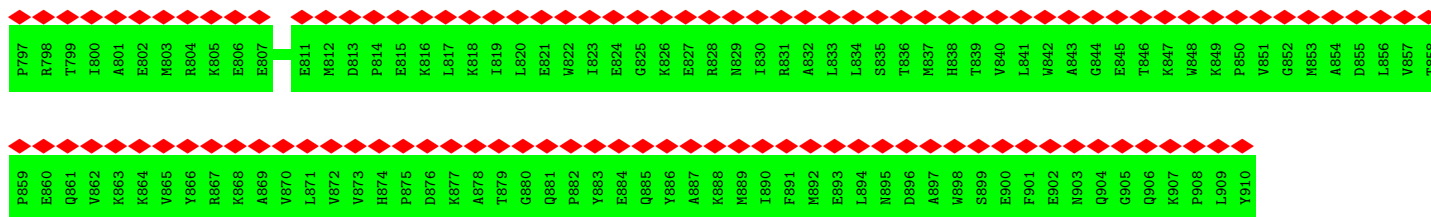


• Molecule 1: Clathrin heavy chain





• Molecule 2: Auxilin J-domain



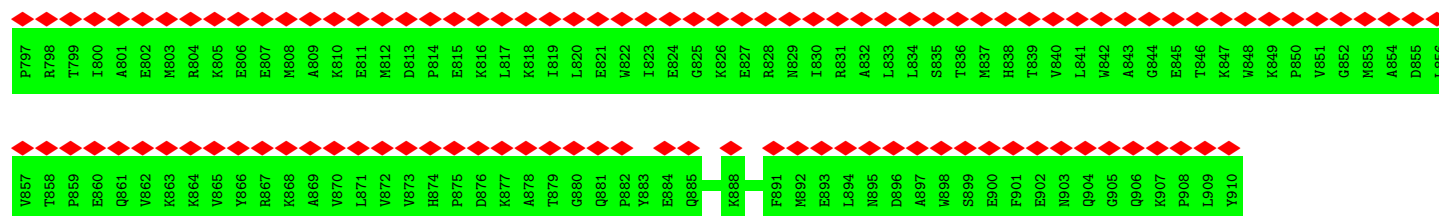
• Molecule 2: Auxilin J-domain



• Molecule 2: Auxilin J-domain



• Molecule 2: Auxilin J-domain



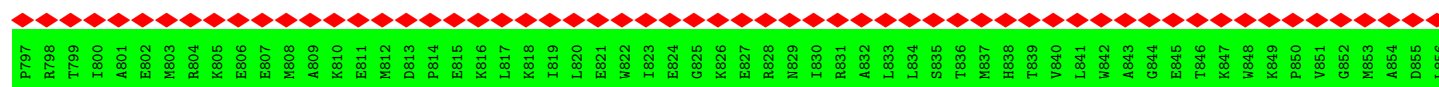
• Molecule 2: Auxilin J-domain



• Molecule 2: Auxilin J-domain

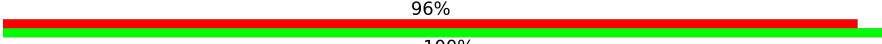


• Molecule 2: Auxilin J-domain



V857 T858 P859 E860 Q861 V862 K863 K864 V865 Y866 R867 K868 A869 V870 L871 V872 V873 H874 P875 D876 K877 A878 T879 G880 Q881 P882 Y883 E884 Q885 Y886 A887 K888 M889 I890 F891 M892 E893 L894 N895 D896 A897 W898 S899 E900 F901 E902 N903 Q904 G905 Q906 K907 P908 L909 Y910

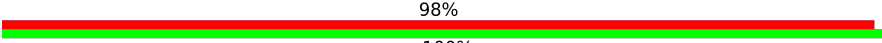
• Molecule 2: Auxilin J-domain

Chain Q:  96%
100%

F797 R798 T799 I800 E801 E802 M803 R804 K805 E806 E807 M808 A809 K810 E811 M812 D813 P814 E815 K816 L817 K818 L819 I820 E821 W822 I823 E824 G825 K826 E827 R828 N829 I830 R831 A832 L833 L834 S835 T836 M837 H838 T839 V840 L841 W842 A843 G844 E845 T846 K847 W848 K849 P850 V851 G852 M853 A854 D855 L856

V857 T858 P859 E860 Q861 V862 K863 K864 V865 Y866 R867 K868 A869 V870 L871 V872 V873 H874 P875 D876 K877 A878 T879 G880 Q881 P882 Y883 E884 Q885 Y886 A887 K888 M889 I890 F891 M892 E893 L894 N895 D896 A897 W898 S899 E900 F901 E902 N903 Q904 G905 Q906 K907 P908 L909 Y910

• Molecule 2: Auxilin J-domain

Chain R:  98%
100%

F797 R798 T799 I800 E801 E802 M803 R804 K805 E806 E807 M808 A809 K810 E811 M812 D813 P814 E815 K816 L817 K818 L819 I820 E821 W822 I823 E824 G825 K826 E827 R828 N829 I830 R831 A832 L833 L834 S835 T836 M837 H838 T839 V840 L841 W842 A843 G844 E845 T846 K847 W848 K849 P850 V851 G852 M853 A854 D855 L856

V857 T858 P859 E860 Q861 V862 K863 K864 V865 Y866 R867 K868 A869 V870 L871 V872 V873 H874 P875 D876 K877 A878 T879 G880 Q881 P882 Y883 E884 Q885 Y886 A887 K888 M889 I890 F891 M892 E893 L894 N895 D896 A897 W898 S899 E900 F901 E902 N903 Q904 G905 Q906 K907 P908 L909 Y910

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D6	Depositor
Number of particles used	900	Depositor
Resolution determination method	Not provided	
CTF correction method	CTFTILT, FREALIGN V.6.07	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	51160	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	0.578	Depositor
Minimum map value	-0.289	Depositor
Average map value	0.012	Depositor
Map value standard deviation	0.076	Depositor
Recommended contour level	0.25	Depositor
Map size ($\text{\AA}$)	1075.2, 1075.2, 1075.2	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ($^\circ$)	90, 90, 90	wwPDB
Pixel spacing ($\text{\AA}$)	4.2, 4.2, 4.2	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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).

There are no protein, RNA or DNA chains available to summarize Z scores of covalent bonds and angles.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

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	A	1630	0	0	13	0
1	B	1630	0	0	11	0
1	C	1630	0	0	22	0
1	D	1630	0	0	23	0
1	E	1630	0	0	12	0
1	F	1630	0	0	19	0
1	G	1630	0	0	21	0
1	H	1630	0	0	11	0
1	I	1630	0	0	13	0
2	J	114	0	0	0	0
2	K	114	0	0	0	0
2	L	114	0	0	0	0
2	M	114	0	0	0	0
2	N	114	0	0	0	0
2	O	114	0	0	0	0
2	P	114	0	0	0	0
2	Q	114	0	0	0	0
2	R	114	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	15696	0	0	119	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 8.

All (119) 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)
1:F:1293:ARG:CA	1:G:1258:PHE:CA	1.88	1.50
1:C:1273:GLY:CA	1:D:1298:GLU:CA	1.87	1.49
1:F:1298:GLU:CA	1:G:1273:GLY:CA	1.98	1.42
1:C:1278:VAL:CA	1:D:1303:LEU:CA	2.05	1.33
1:F:951:LYS:CA	1:H:951:LYS:CA	2.07	1.32
1:D:1580:ASP:CA	1:E:1601:GLN:CA	2.08	1.31
1:F:1300:ILE:CA	1:G:1277:VAL:CA	2.16	1.24
1:C:1274:LEU:CA	1:D:1302:MET:CA	2.22	1.18
1:H:723:GLN:CA	1:H:724:ASP:CA	2.24	1.16
1:I:723:GLN:CA	1:I:724:ASP:CA	2.24	1.16
1:C:723:GLN:CA	1:C:724:ASP:CA	2.24	1.16
1:E:723:GLN:CA	1:E:724:ASP:CA	2.24	1.16
1:B:723:GLN:CA	1:B:724:ASP:CA	2.24	1.16
1:A:723:GLN:CA	1:A:724:ASP:CA	2.24	1.15
1:D:723:GLN:CA	1:D:724:ASP:CA	2.24	1.15
1:F:723:GLN:CA	1:F:724:ASP:CA	2.24	1.14
1:G:723:GLN:CA	1:G:724:ASP:CA	2.24	1.14
1:E:1133:ASP:CA	1:E:1134:PRO:CA	2.27	1.13
1:H:1133:ASP:CA	1:H:1134:PRO:CA	2.27	1.12
1:F:1290:TYR:CA	1:G:1254:LYS:CA	2.25	1.12
1:G:1133:ASP:CA	1:G:1134:PRO:CA	2.27	1.11
1:A:1133:ASP:CA	1:A:1134:PRO:CA	2.27	1.11
1:B:1133:ASP:CA	1:B:1134:PRO:CA	2.27	1.11
1:D:1133:ASP:CA	1:D:1134:PRO:CA	2.27	1.11
1:F:1133:ASP:CA	1:F:1134:PRO:CA	2.27	1.11
1:I:1133:ASP:CA	1:I:1134:PRO:CA	2.27	1.11
1:C:1133:ASP:CA	1:C:1134:PRO:CA	2.27	1.10
1:E:984:ASP:CA	1:E:985:PRO:CA	2.30	1.10
1:A:984:ASP:CA	1:A:985:PRO:CA	2.30	1.09
1:I:984:ASP:CA	1:I:985:PRO:CA	2.30	1.09
1:F:984:ASP:CA	1:F:985:PRO:CA	2.30	1.09
1:G:984:ASP:CA	1:G:985:PRO:CA	2.30	1.09
1:C:984:ASP:CA	1:C:985:PRO:CA	2.30	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:984:ASP:CA	1:D:985:PRO:CA	2.30	1.08
1:B:984:ASP:CA	1:B:985:PRO:CA	2.30	1.08
1:H:984:ASP:CA	1:H:985:PRO:CA	2.30	1.08
1:C:826:GLU:CA	1:D:860:PRO:CA	2.34	1.05
1:F:1286:LEU:CA	1:G:1250:THR:CA	2.46	0.94
1:C:1277:VAL:CA	1:D:1300:ILE:CA	2.45	0.94
1:C:1274:LEU:CA	1:D:1301:THR:CA	2.47	0.93
1:F:1299:LEU:CA	1:G:1276:ILE:CA	2.47	0.92
1:C:780:ARG:CA	1:C:781:PHE:CA	2.50	0.90
1:F:780:ARG:CA	1:F:781:PHE:CA	2.50	0.90
1:H:780:ARG:CA	1:H:781:PHE:CA	2.50	0.90
1:A:1597:PRO:CA	1:C:1584:GLU:CA	2.50	0.89
1:E:780:ARG:CA	1:E:781:PHE:CA	2.50	0.89
1:D:780:ARG:CA	1:D:781:PHE:CA	2.50	0.89
1:I:780:ARG:CA	1:I:781:PHE:CA	2.50	0.89
1:B:780:ARG:CA	1:B:781:PHE:CA	2.50	0.89
1:A:780:ARG:CA	1:A:781:PHE:CA	2.50	0.89
1:G:780:ARG:CA	1:G:781:PHE:CA	2.50	0.89
1:C:1562:LYS:CA	1:C:1563:ARG:CA	2.56	0.83
1:G:1562:LYS:CA	1:G:1563:ARG:CA	2.56	0.83
1:D:1562:LYS:CA	1:D:1563:ARG:CA	2.56	0.83
1:H:1562:LYS:CA	1:H:1563:ARG:CA	2.56	0.83
1:I:1562:LYS:CA	1:I:1563:ARG:CA	2.56	0.83
1:G:1598:TYR:CA	1:I:1587:TRP:CA	2.57	0.82
1:A:1562:LYS:CA	1:A:1563:ARG:CA	2.56	0.82
1:B:1562:LYS:CA	1:B:1563:ARG:CA	2.56	0.82
1:E:1562:LYS:CA	1:E:1563:ARG:CA	2.56	0.82
1:F:1562:LYS:CA	1:F:1563:ARG:CA	2.56	0.81
1:E:509:GLY:CA	1:E:510:TYR:CA	2.60	0.80
1:D:509:GLY:CA	1:D:510:TYR:CA	2.60	0.80
1:B:509:GLY:CA	1:B:510:TYR:CA	2.60	0.80
1:F:509:GLY:CA	1:F:510:TYR:CA	2.60	0.80
1:A:509:GLY:CA	1:A:510:TYR:CA	2.60	0.80
1:H:509:GLY:CA	1:H:510:TYR:CA	2.60	0.79
1:I:509:GLY:CA	1:I:510:TYR:CA	2.60	0.79
1:C:509:GLY:CA	1:C:510:TYR:CA	2.60	0.79
1:G:509:GLY:CA	1:G:510:TYR:CA	2.60	0.79
1:A:1601:GLN:CA	1:C:1580:ASP:CA	2.61	0.78
1:F:861:TRP:CA	1:G:820:LEU:CA	2.65	0.75
1:C:824:CYS:CA	1:D:857:LEU:CA	2.66	0.73
1:C:1275:HIS:CA	1:D:1302:MET:CA	2.70	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1584:GLU:CA	1:E:1597:PRO:CA	2.76	0.64
1:G:1599:PHE:CA	1:I:1584:GLU:CA	2.76	0.63
1:C:1254:LYS:CA	1:D:1290:TYR:CA	2.77	0.63
1:D:688:LYS:CA	1:D:689:TYR:CA	2.80	0.60
1:C:688:LYS:CA	1:C:689:TYR:CA	2.80	0.60
1:E:688:LYS:CA	1:E:689:TYR:CA	2.80	0.60
1:F:688:LYS:CA	1:F:689:TYR:CA	2.80	0.60
1:I:688:LYS:CA	1:I:689:TYR:CA	2.80	0.60
1:B:688:LYS:CA	1:B:689:TYR:CA	2.80	0.60
1:G:688:LYS:CA	1:G:689:TYR:CA	2.80	0.59
1:A:688:LYS:CA	1:A:689:TYR:CA	2.80	0.59
1:H:688:LYS:CA	1:H:689:TYR:CA	2.80	0.59
1:B:1528:CYS:CA	1:B:1532:SER:CA	2.84	0.56
1:H:1528:CYS:CA	1:H:1532:SER:CA	2.84	0.56
1:C:1528:CYS:CA	1:C:1532:SER:CA	2.84	0.56
1:F:1528:CYS:CA	1:F:1532:SER:CA	2.84	0.56
1:E:1528:CYS:CA	1:E:1532:SER:CA	2.84	0.56
1:C:508:VAL:CA	1:C:510:TYR:CA	2.84	0.56
1:D:1528:CYS:CA	1:D:1532:SER:CA	2.84	0.56
1:E:508:VAL:CA	1:E:510:TYR:CA	2.84	0.56
1:B:508:VAL:CA	1:B:510:TYR:CA	2.84	0.56
1:G:1528:CYS:CA	1:G:1532:SER:CA	2.84	0.56
1:I:1528:CYS:CA	1:I:1532:SER:CA	2.84	0.56
1:A:1528:CYS:CA	1:A:1532:SER:CA	2.84	0.55
1:I:508:VAL:CA	1:I:510:TYR:CA	2.84	0.55
1:A:508:VAL:CA	1:A:510:TYR:CA	2.84	0.55
1:H:508:VAL:CA	1:H:510:TYR:CA	2.84	0.55
1:F:508:VAL:CA	1:F:510:TYR:CA	2.84	0.55
1:G:508:VAL:CA	1:G:510:TYR:CA	2.84	0.55
1:D:508:VAL:CA	1:D:510:TYR:CA	2.84	0.54
1:I:458:GLU:CA	1:I:459:CYS:CA	2.87	0.53
1:G:458:GLU:CA	1:G:459:CYS:CA	2.87	0.53
1:B:458:GLU:CA	1:B:459:CYS:CA	2.87	0.53
1:H:458:GLU:CA	1:H:459:CYS:CA	2.87	0.53
1:A:458:GLU:CA	1:A:459:CYS:CA	2.87	0.53
1:F:458:GLU:CA	1:F:459:CYS:CA	2.87	0.53
1:E:458:GLU:CA	1:E:459:CYS:CA	2.87	0.53
1:C:458:GLU:CA	1:C:459:CYS:CA	2.87	0.52
1:D:458:GLU:CA	1:D:459:CYS:CA	2.87	0.52
1:G:1598:TYR:CA	1:I:1584:GLU:CA	2.91	0.49
1:C:823:ASP:CA	1:D:858:LEU:CA	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1298:GLU:CA	1:G:1274:LEU:CA	2.99	0.41
1:A:1001:PRO:CA	1:A:1004:LEU:CA	3.00	0.40
1:B:1001:PRO:CA	1:B:1004:LEU:CA	3.00	0.40
1:D:1001:PRO:CA	1:D:1004:LEU:CA	3.00	0.40

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](#)

There are no RNA molecules in this entry.

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 ⓘ

There are no chain breaks in this entry.

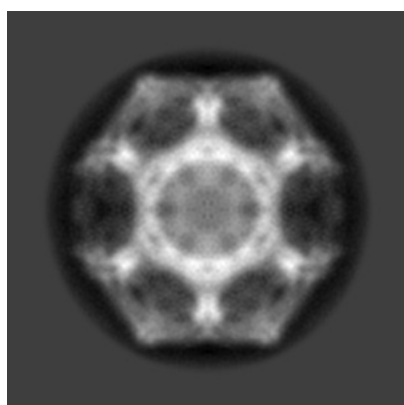
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-5120. These allow visual inspection of the internal detail of the map and identification of artifacts.

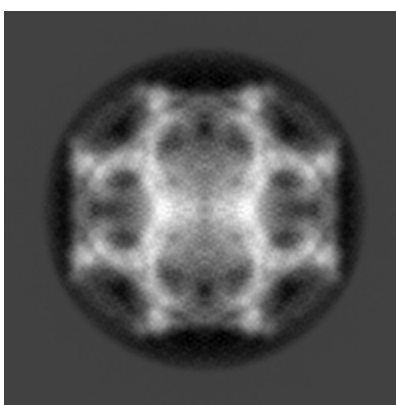
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

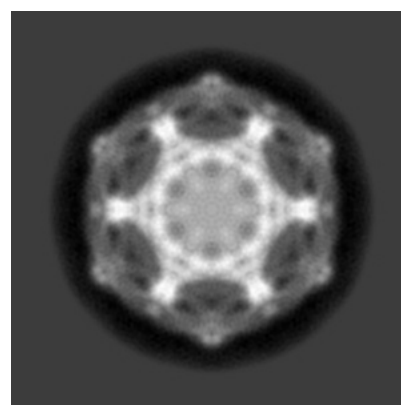
6.1.1 Primary map



X



Y

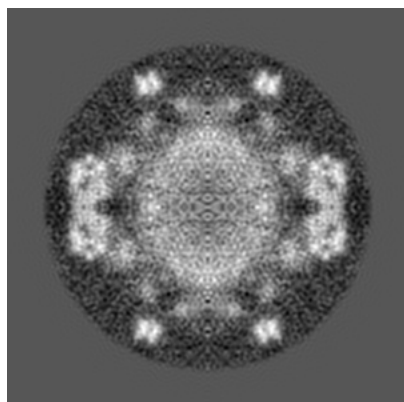


Z

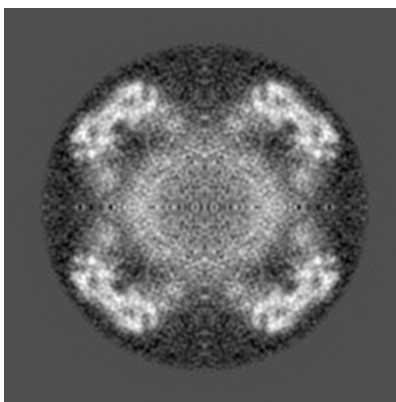
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

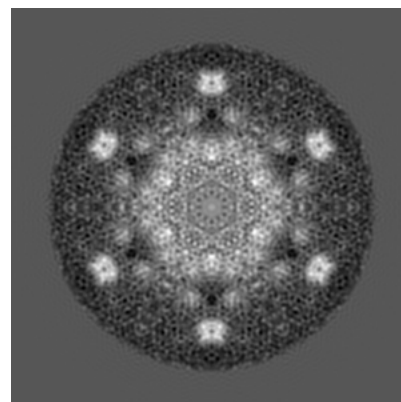
6.2.1 Primary map



X Index: 128



Y Index: 128

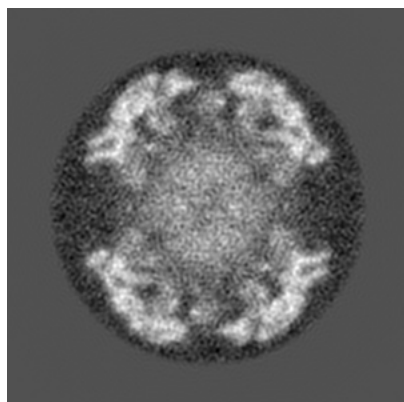


Z Index: 128

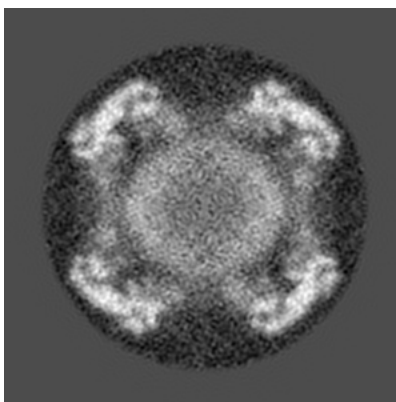
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

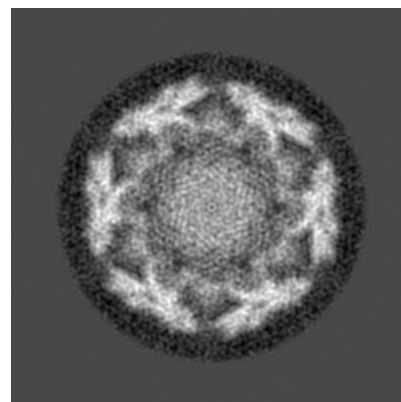
6.3.1 Primary map



X Index: 156



Y Index: 125

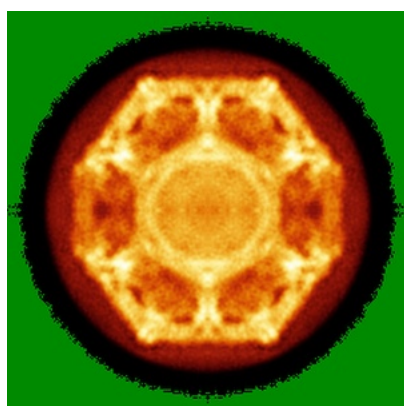


Z Index: 94

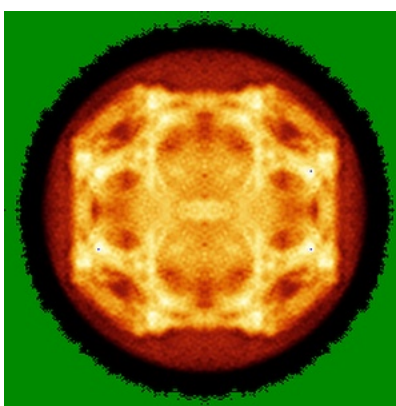
The images above show the largest variance slices of the map in three orthogonal directions.

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

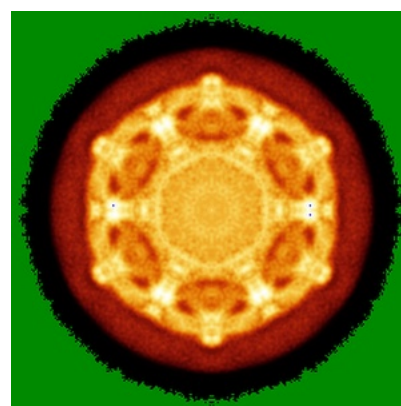
6.4.1 Primary map



X



Y



Z

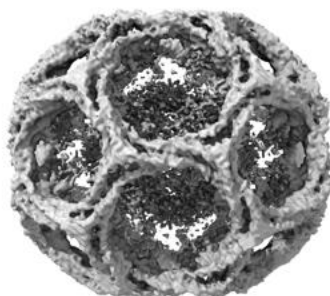
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.25. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

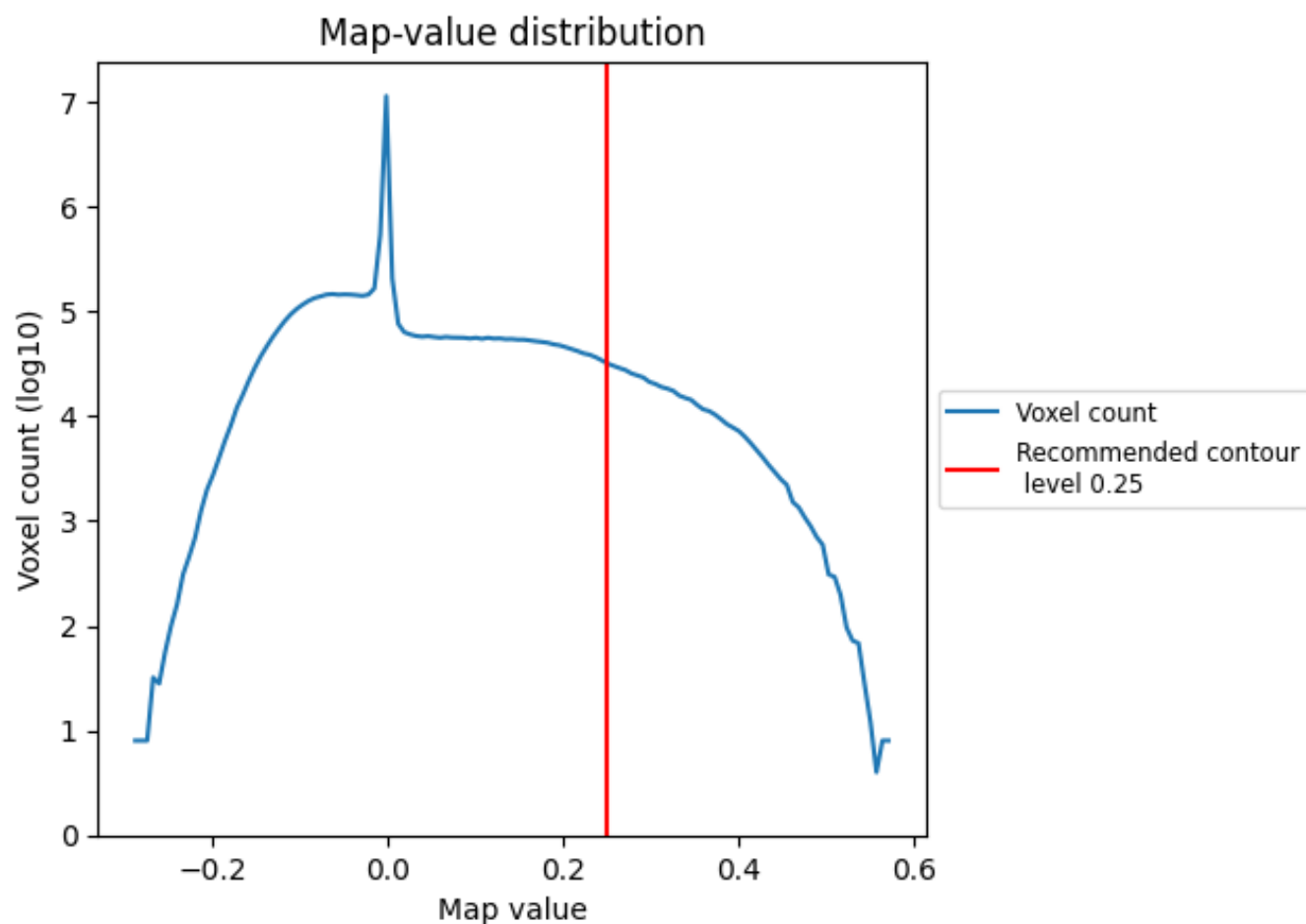
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

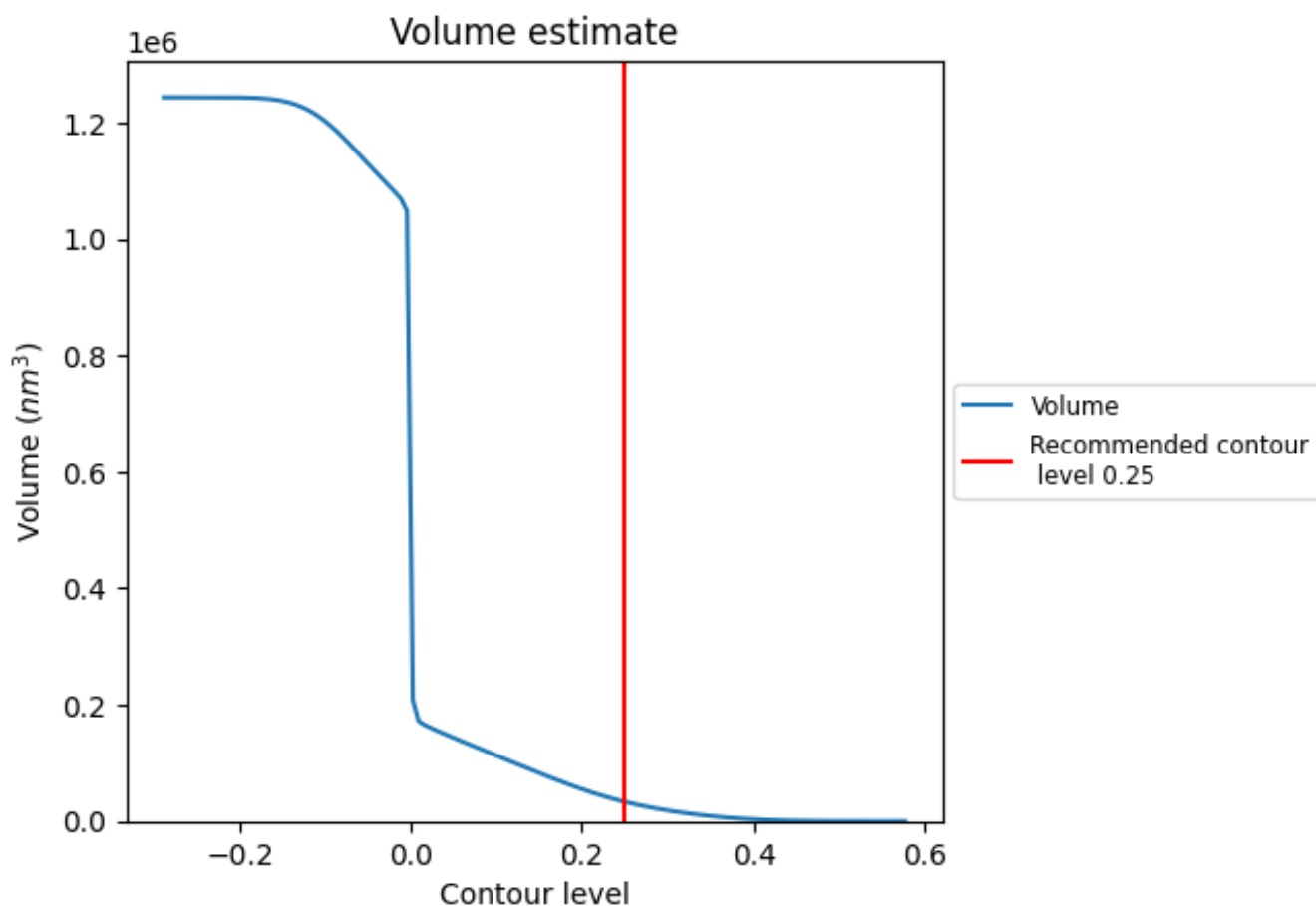
This section contains the results of statistical analysis of the map.

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.

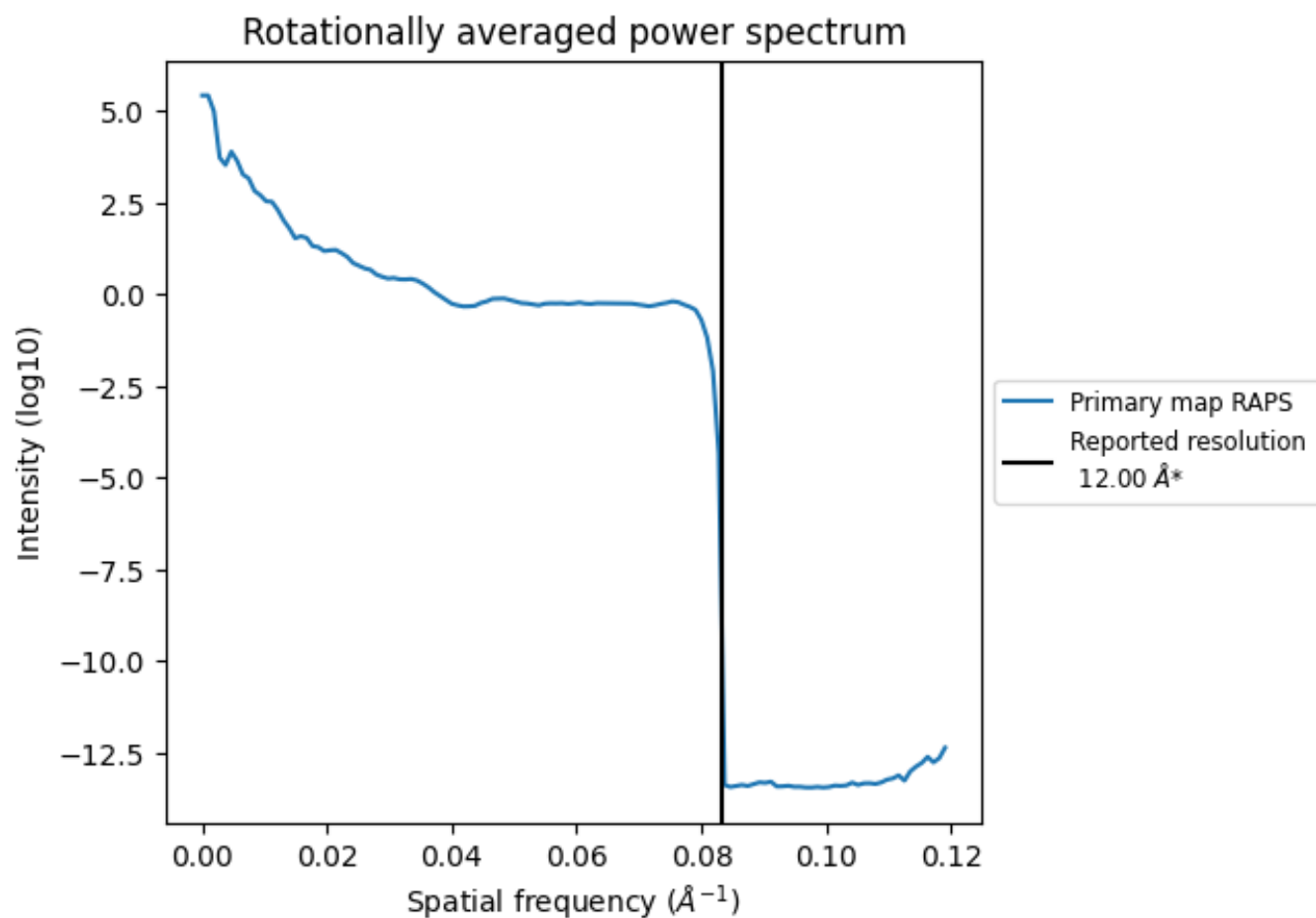
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 33428 nm³; this corresponds to an approximate mass of 30197 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 0.083 Å⁻¹

8 Fourier-Shell correlation

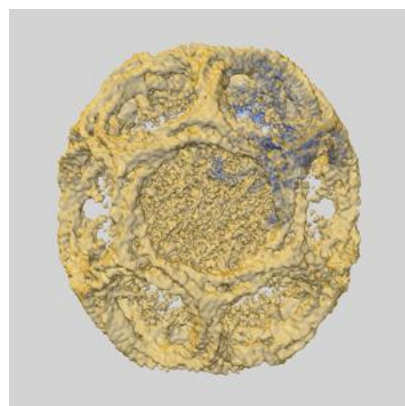
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

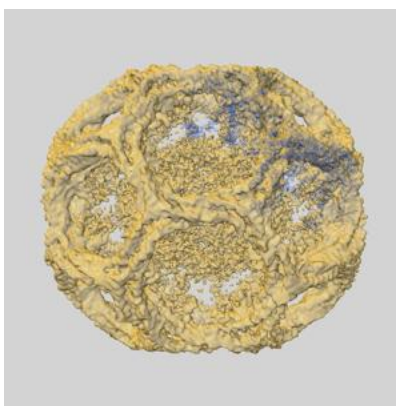
This section contains information regarding the fit between EMDB map EMD-5120 and PDB model 1XI5. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlays

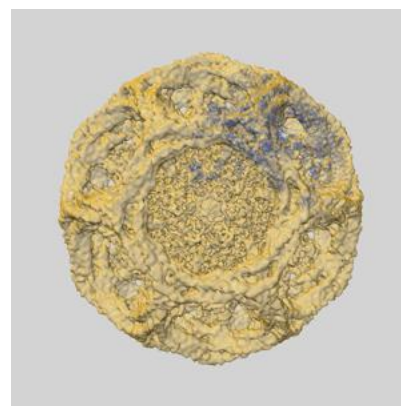
9.1.1 Map-model overlay [i](#)



X

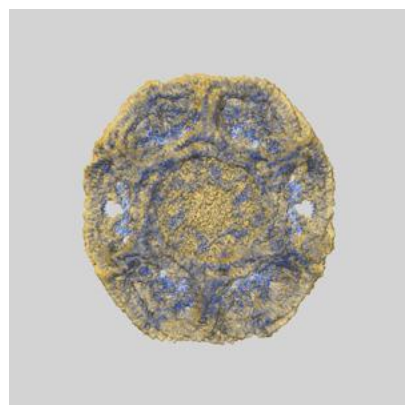


Y

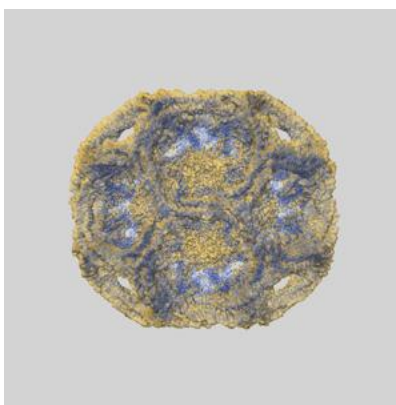


Z

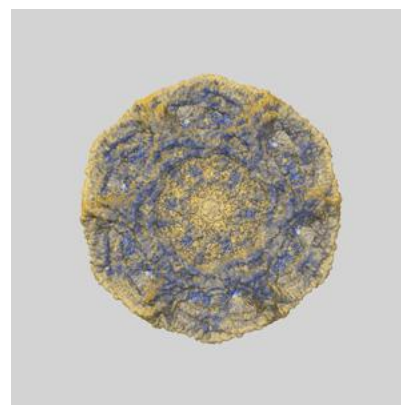
9.1.2 Map-model assembly overlay [i](#)



X



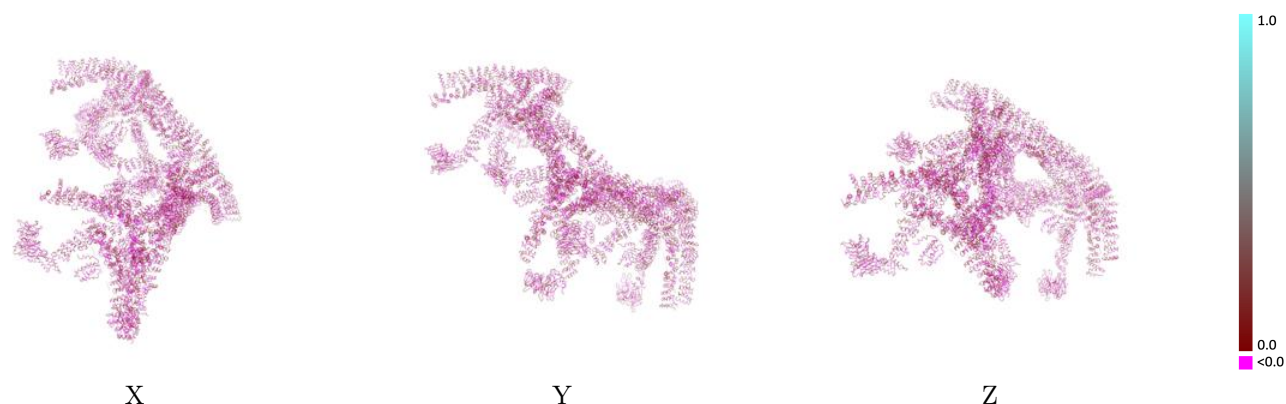
Y



Z

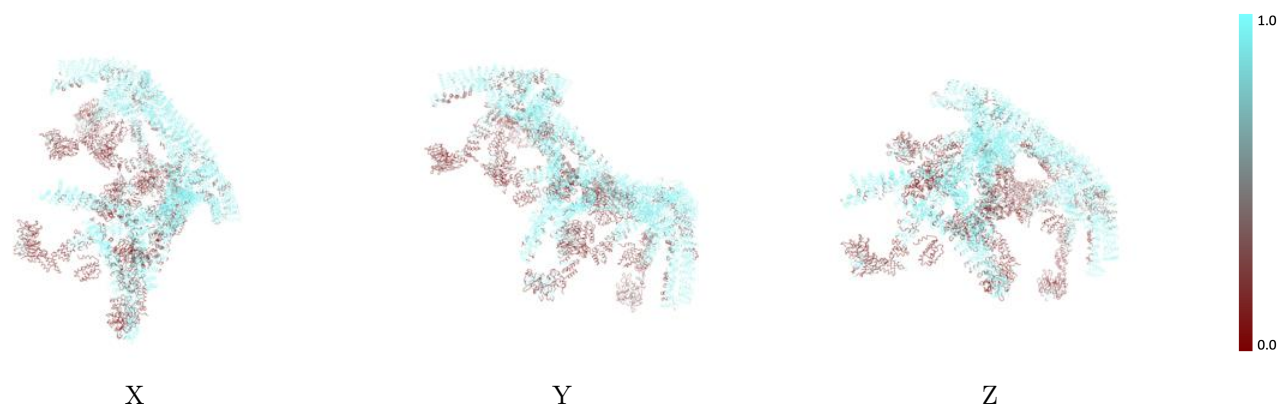
The images above show the 3D surface view of the map at the recommended contour level 0.25 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



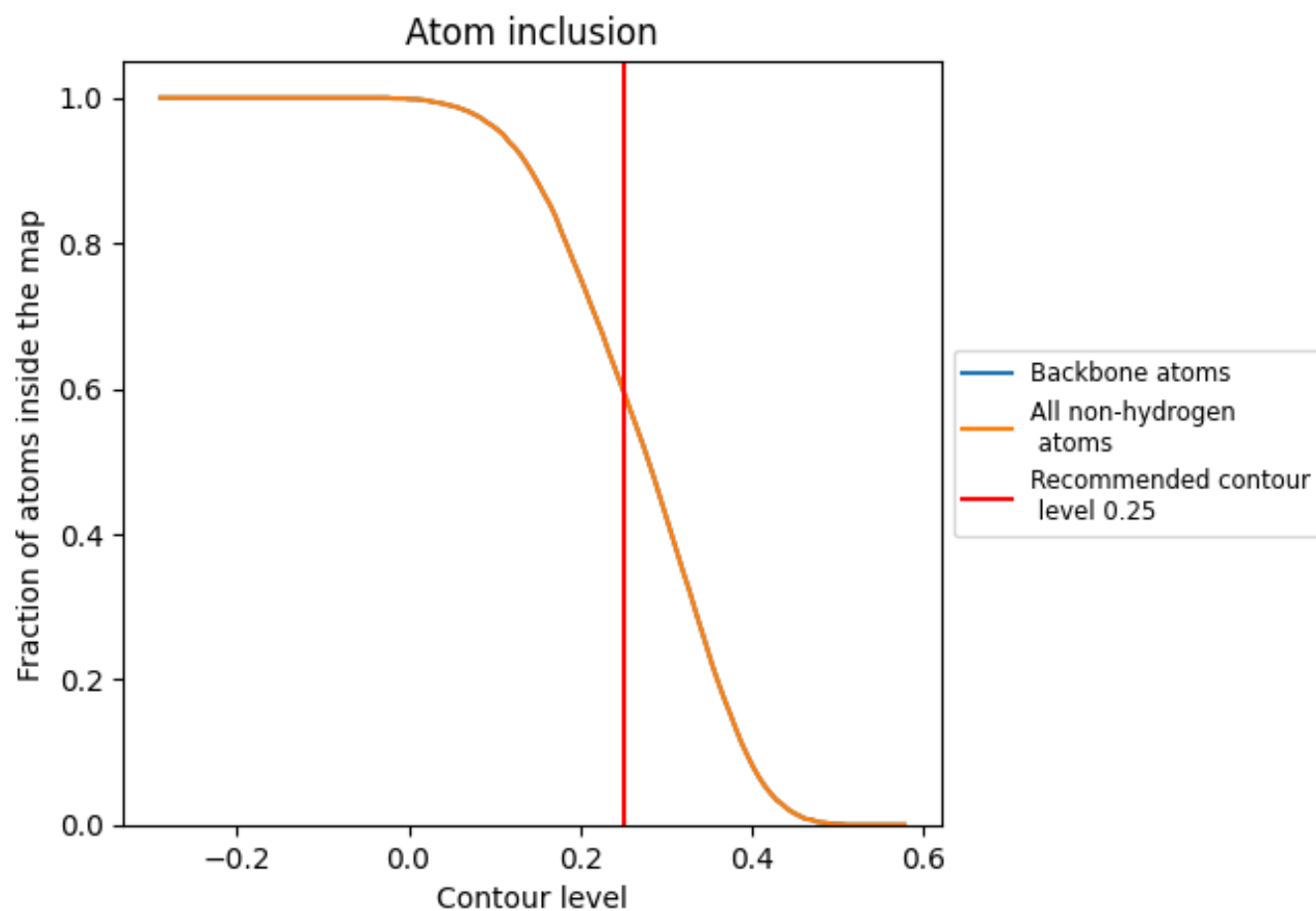
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.25).

9.4 Atom inclusion [i](#)



At the recommended contour level, 60% of all backbone atoms, 60% 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 (0.25) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5980	 0.0260
A	 0.6850	 0.0210
B	 0.6140	 0.0310
C	 0.6630	 0.0340
D	 0.6370	 0.0300
E	 0.7220	 0.0320
F	 0.6240	 0.0270
G	 0.5920	 0.0250
H	 0.6750	 0.0300
I	 0.5320	 0.0250
J	 0.0260	 0.0020
K	 0.0000	 -0.0010
L	 0.0000	 -0.0210
M	 0.0440	 -0.0100
N	 0.0090	 -0.0360
O	 0.1140	 -0.0010
P	 0.0000	 -0.0110
Q	 0.0350	 -0.0260
R	 0.0180	 -0.0040

