



## wwPDB EM Validation Summary Report ⓘ

Mar 25, 2026 – 12:52 AM UTC

PDB ID : 8G1R / pdb\_00008g1r  
EMDB ID : EMD-29675  
Title : A Vibrio cholerae viral satellite enables efficient horizontal transfer by using an external scaffold to assemble hijacked coat proteins into small capsids  
Authors : Subramanian, S.; Boyd, C.M.; Seed, K.D.; Parent, K.N.  
Deposited on : 2023-02-02  
Resolution : 3.40 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](mailto: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>.

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

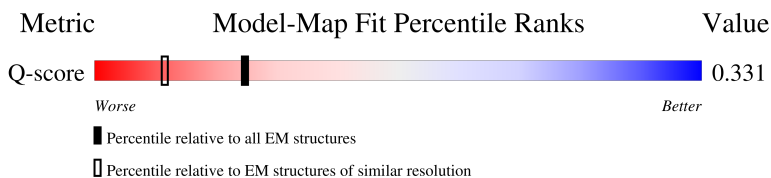
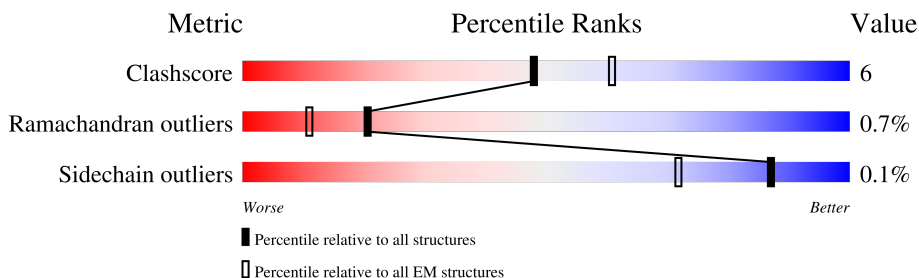
EMDB validation analysis : 0.0.1.dev132  
MolProbity : 4-5-2 with Phenix2.0  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)  
MapQ : 1.9.13  
Ideal geometry (proteins) : 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 3.40 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<br>(#Entries) | EM structures<br>(#Entries) | Similar EM resolution<br>(#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|-----------------------------|----------------------------------------------------------|
| Clashscore            | 229148                      | 23984                       | -                                                        |
| Ramachandran outliers | 224038                      | 23583                       | -                                                        |
| Sidechain outliers    | 223484                      | 23102                       | -                                                        |
| Q-score               | -                           | 25397                       | 14717 ( 2.90 - 3.90 )                                    |

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  $\geq 3$ , 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     | 345    |                  |
| 1   | B     | 345    |                  |
| 1   | C     | 345    |                  |
| 1   | D     | 345    |                  |

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| Mol | Chain | Length | Quality of chain                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|-------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2   | E     | 298    |  A horizontal bar chart showing the quality of chain E. The bar is divided into three segments: a small red segment at the beginning, a long green segment labeled '45%', and a grey segment labeled '53%'. A small yellow segment is visible at the end of the green segment, and a small black dot is at the end of the grey segment. |

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 9889 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 major head protein.

| Mol | Chain | Residues | Atoms |      |     |     |    | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| 1   | A     | 331      | Total | C    | N   | O   | S  | 0       | 0     |
|     |       |          | 2327  | 1467 | 409 | 441 | 10 |         |       |
| 1   | B     | 331      | Total | C    | N   | O   | S  | 0       | 0     |
|     |       |          | 2270  | 1432 | 398 | 432 | 8  |         |       |
| 1   | C     | 331      | Total | C    | N   | O   | S  | 0       | 0     |
|     |       |          | 2299  | 1447 | 407 | 435 | 10 |         |       |
| 1   | D     | 325      | Total | C    | N   | O   | S  | 0       | 0     |
|     |       |          | 2179  | 1378 | 377 | 414 | 10 |         |       |

There are 24 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment        | Reference      |
|-------|---------|----------|--------|----------------|----------------|
| A     | 340     | HIS      | -      | expression tag | UNP A0A385IH56 |
| A     | 341     | HIS      | -      | expression tag | UNP A0A385IH56 |
| A     | 342     | HIS      | -      | expression tag | UNP A0A385IH56 |
| A     | 343     | HIS      | -      | expression tag | UNP A0A385IH56 |
| A     | 344     | HIS      | -      | expression tag | UNP A0A385IH56 |
| A     | 345     | HIS      | -      | expression tag | UNP A0A385IH56 |
| B     | 340     | HIS      | -      | expression tag | UNP A0A385IH56 |
| B     | 341     | HIS      | -      | expression tag | UNP A0A385IH56 |
| B     | 342     | HIS      | -      | expression tag | UNP A0A385IH56 |
| B     | 343     | HIS      | -      | expression tag | UNP A0A385IH56 |
| B     | 344     | HIS      | -      | expression tag | UNP A0A385IH56 |
| B     | 345     | HIS      | -      | expression tag | UNP A0A385IH56 |
| C     | 340     | HIS      | -      | expression tag | UNP A0A385IH56 |
| C     | 341     | HIS      | -      | expression tag | UNP A0A385IH56 |
| C     | 342     | HIS      | -      | expression tag | UNP A0A385IH56 |
| C     | 343     | HIS      | -      | expression tag | UNP A0A385IH56 |
| C     | 344     | HIS      | -      | expression tag | UNP A0A385IH56 |
| C     | 345     | HIS      | -      | expression tag | UNP A0A385IH56 |
| D     | 340     | HIS      | -      | expression tag | UNP A0A385IH56 |
| D     | 341     | HIS      | -      | expression tag | UNP A0A385IH56 |
| D     | 342     | HIS      | -      | expression tag | UNP A0A385IH56 |
| D     | 343     | HIS      | -      | expression tag | UNP A0A385IH56 |

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| Chain | Residue | Modelled | Actual | Comment        | Reference      |
|-------|---------|----------|--------|----------------|----------------|
| D     | 344     | HIS      | -      | expression tag | UNP A0A385IH56 |
| D     | 345     | HIS      | -      | expression tag | UNP A0A385IH56 |

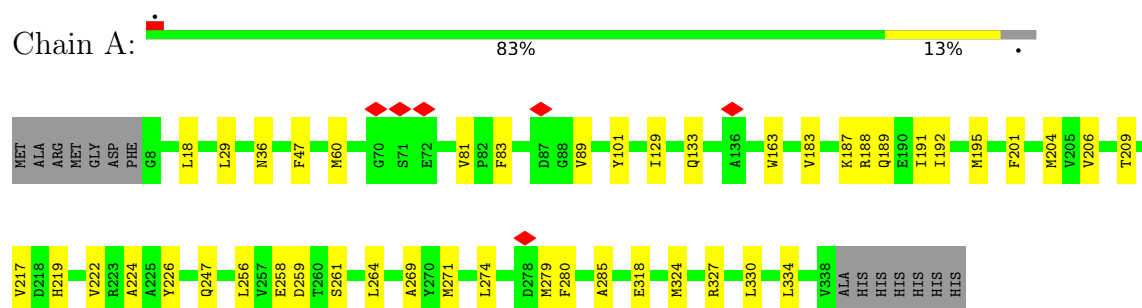
- Molecule 2 is a protein called Serine protease.

| Mol | Chain | Residues | Atoms |     |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 2   | E     | 139      | Total | C   | N   | O   | S | 0       | 0     |
|     |       |          | 814   | 510 | 157 | 145 | 2 |         |       |

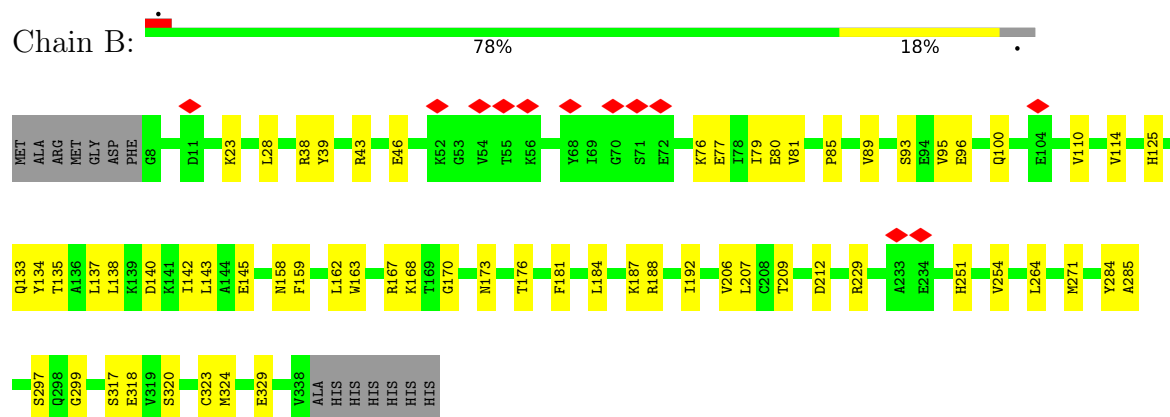
### 3 Residue-property plots [i](#)

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

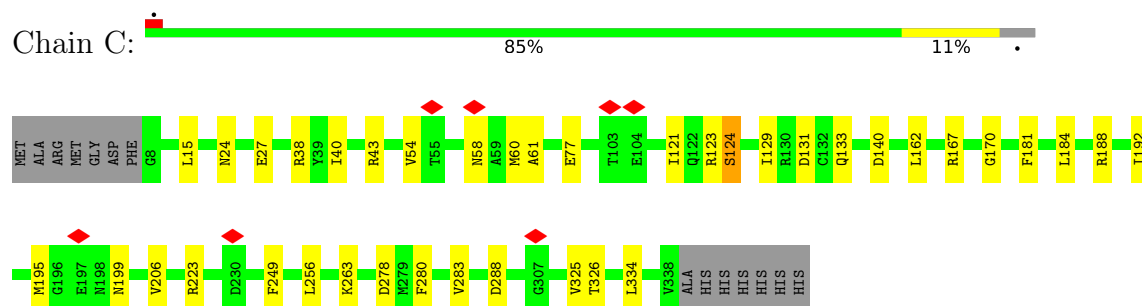
- Molecule 1: major head protein



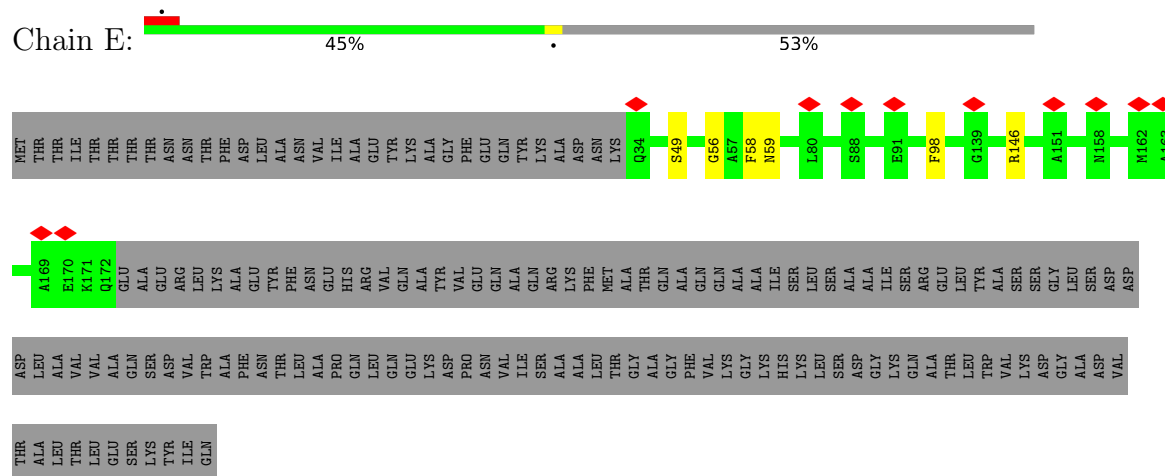
- Molecule 1: major head protein



- Molecule 1: major head protein



- Molecule 1: major head protein



## 4 Experimental information

| Property                             | Value                         | Source    |
|--------------------------------------|-------------------------------|-----------|
| EM reconstruction method             | SINGLE PARTICLE               | Depositor |
| Imposed symmetry                     | POINT, I                      | Depositor |
| Number of particles used             | 379643                        | 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 ( $e^-/\text{\AA}^2$ ) | 36.41                         | Depositor |
| Minimum defocus (nm)                 | 700                           | Depositor |
| Maximum defocus (nm)                 | 2000                          | Depositor |
| Magnification                        | Not provided                  |           |
| Image detector                       | GATAN K3 BIOQUANTUM (6k x 4k) | Depositor |
| Maximum map value                    | 2.213                         | Depositor |
| Minimum map value                    | -1.041                        | Depositor |
| Average map value                    | 0.002                         | Depositor |
| Map value standard deviation         | 0.077                         | Depositor |
| Recommended contour level            | 0.28                          | Depositor |
| Map size ( $\text{\AA}$ )            | 796.8, 796.8, 796.8           | wwPDB     |
| Map dimensions                       | 600, 600, 600                 | wwPDB     |
| Map angles ( $^\circ$ )              | 90.0, 90.0, 90.0              | wwPDB     |
| Pixel spacing ( $\text{\AA}$ )       | 1.328, 1.328, 1.328           | 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).

| Mol | Chain | Bond lengths |         | Bond angles |                |
|-----|-------|--------------|---------|-------------|----------------|
|     |       | RMSZ         | # Z  >5 | RMSZ        | # Z  >5        |
| 1   | A     | 0.16         | 0/2367  | 0.29        | 0/3228         |
| 1   | B     | 0.18         | 0/2308  | 0.32        | 0/3155         |
| 1   | C     | 0.23         | 0/2337  | 0.37        | 0/3190         |
| 1   | D     | 0.15         | 0/2215  | 0.36        | 1/3035 (0.0%)  |
| 2   | E     | 0.18         | 0/830   | 0.41        | 0/1148         |
| All | All   | 0.18         | 0/10057 | 0.34        | 1/13756 (0.0%) |

There are no bond length outliers.

All (1) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms   | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 1   | D     | 101 | TYR  | CB-CA-C | -5.32 | 110.42      | 116.54   |

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     | 2327  | 0        | 2095     | 26      | 0            |
| 1   | B     | 2270  | 0        | 2007     | 36      | 0            |
| 1   | C     | 2299  | 0        | 2062     | 21      | 0            |
| 1   | D     | 2179  | 0        | 1890     | 25      | 0            |
| 2   | E     | 814   | 0        | 540      | 3       | 0            |
| All | All   | 9889  | 0        | 8594     | 109     | 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 6.

The worst 5 of 109 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:B:163:TRP:HE1  | 1:B:324:MET:HE2  | 1.47                     | 0.78              |
| 1:B:206:VAL:HG21 | 1:B:254:VAL:HG13 | 1.74                     | 0.69              |
| 1:B:79:ILE:HD12  | 1:B:142:ILE:HD11 | 1.78                     | 0.65              |
| 1:A:188:ARG:HG3  | 1:A:204:MET:HG2  | 1.78                     | 0.65              |
| 1:A:81:VAL:HG21  | 1:A:285:ALA:HB2  | 1.79                     | 0.64              |

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed        | Favoured   | Allowed  | Outliers | Percentiles |    |
|-----|-------|-----------------|------------|----------|----------|-------------|----|
| 1   | A     | 329/345 (95%)   | 314 (95%)  | 13 (4%)  | 2 (1%)   | 21          | 50 |
| 1   | B     | 329/345 (95%)   | 296 (90%)  | 31 (9%)  | 2 (1%)   | 21          | 50 |
| 1   | C     | 329/345 (95%)   | 287 (87%)  | 38 (12%) | 4 (1%)   | 10          | 35 |
| 1   | D     | 321/345 (93%)   | 296 (92%)  | 24 (8%)  | 1 (0%)   | 36          | 65 |
| 2   | E     | 137/298 (46%)   | 120 (88%)  | 16 (12%) | 1 (1%)   | 18          | 47 |
| All | All   | 1445/1678 (86%) | 1313 (91%) | 122 (8%) | 10 (1%)  | 20          | 47 |

5 of 10 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | C     | 54  | VAL  |
| 1   | C     | 58  | ASN  |
| 1   | C     | 124 | SER  |
| 1   | D     | 178 | VAL  |
| 1   | B     | 89  | VAL  |

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed       | Rotameric  | Outliers | Percentiles |     |
|-----|-------|----------------|------------|----------|-------------|-----|
| 1   | A     | 206/289 (71%)  | 206 (100%) | 0        | 100         | 100 |
| 1   | B     | 193/289 (67%)  | 193 (100%) | 0        | 100         | 100 |
| 1   | C     | 201/289 (70%)  | 200 (100%) | 1 (0%)   | 81          | 81  |
| 1   | D     | 180/289 (62%)  | 180 (100%) | 0        | 100         | 100 |
| 2   | E     | 31/243 (13%)   | 31 (100%)  | 0        | 100         | 100 |
| All | All   | 811/1399 (58%) | 810 (100%) | 1 (0%)   | 87          | 89  |

All (1) residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | C     | 223 | ARG  |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | A     | 24  | ASN  |
| 1   | A     | 247 | GLN  |
| 1   | A     | 292 | HIS  |
| 1   | B     | 251 | HIS  |
| 2   | E     | 100 | HIS  |

### 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 [i](#)

There are no chain breaks in this entry.

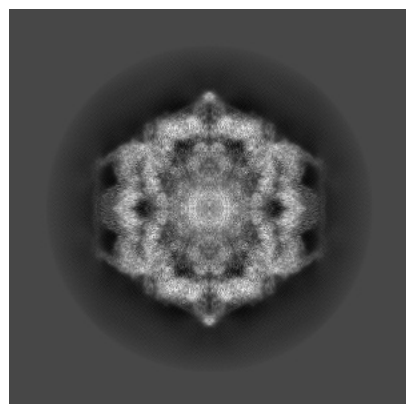
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-29675. These allow visual inspection of the internal detail of the map and identification of artifacts.

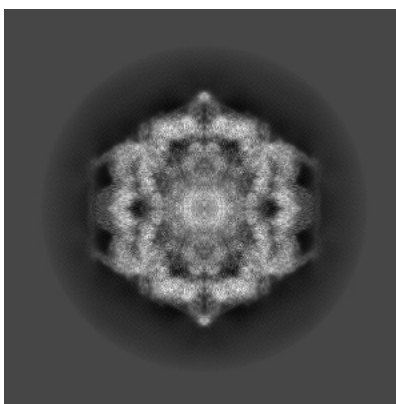
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

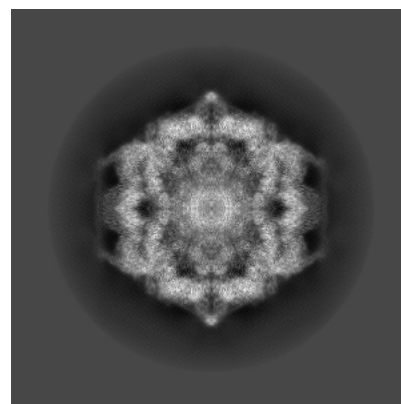
#### 6.1.1 Primary map



X

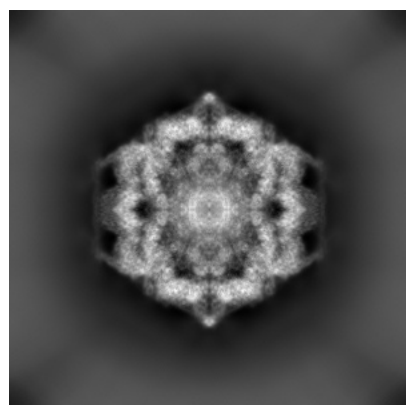


Y

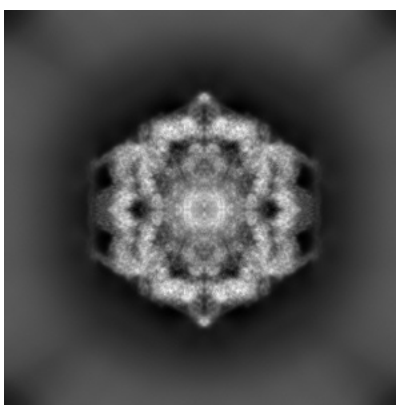


Z

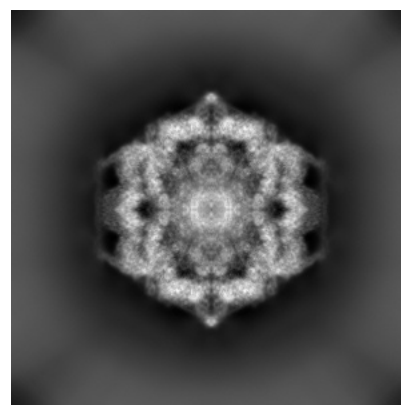
#### 6.1.2 Raw map



X



Y

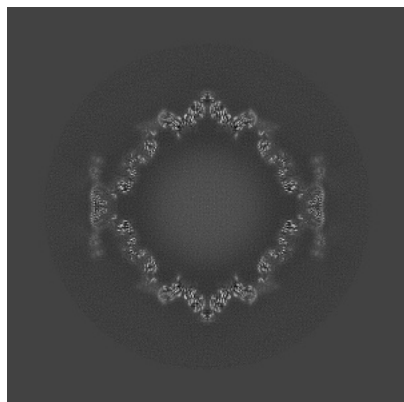


Z

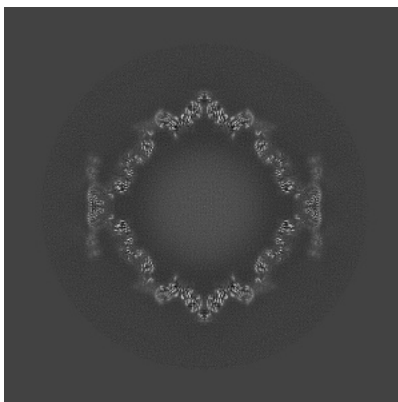
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

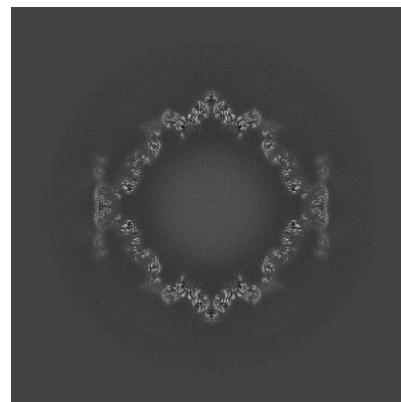
### 6.2.1 Primary map



X Index: 300

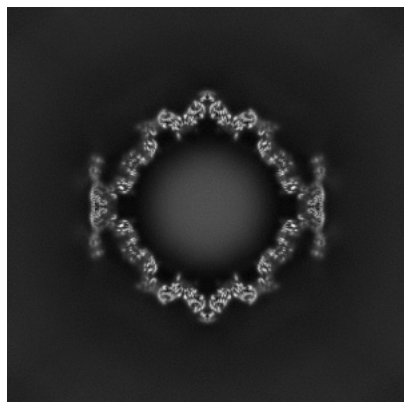


Y Index: 300

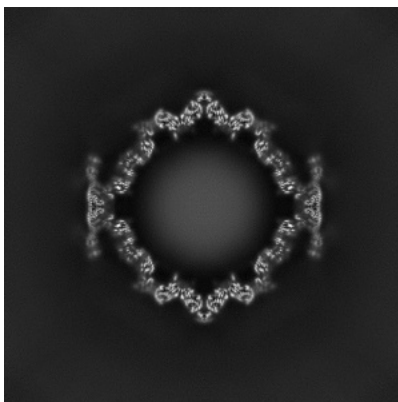


Z Index: 300

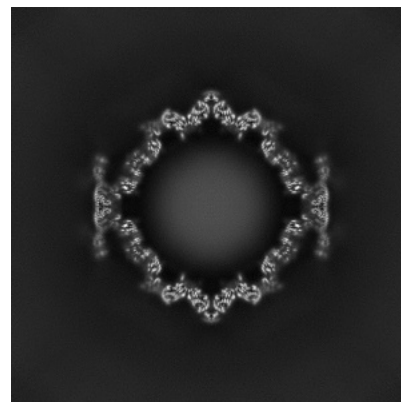
### 6.2.2 Raw map



X Index: 300



Y Index: 300

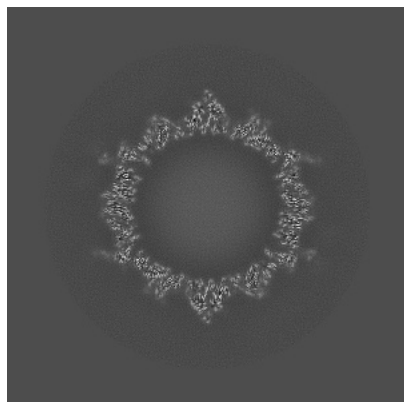


Z Index: 300

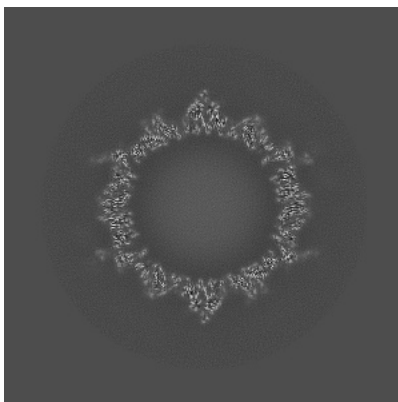
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

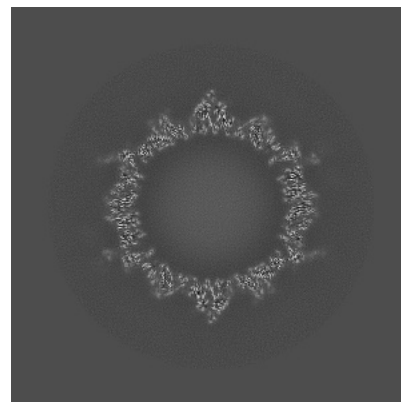
### 6.3.1 Primary map



X Index: 322

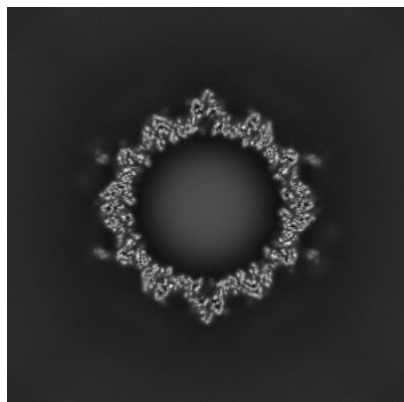


Y Index: 278

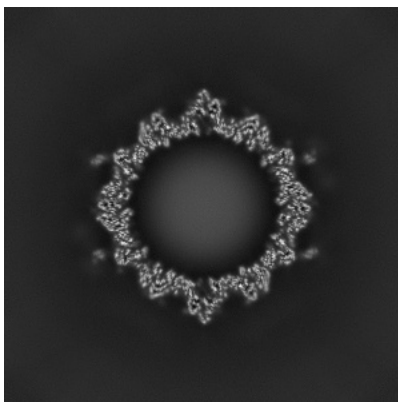


Z Index: 278

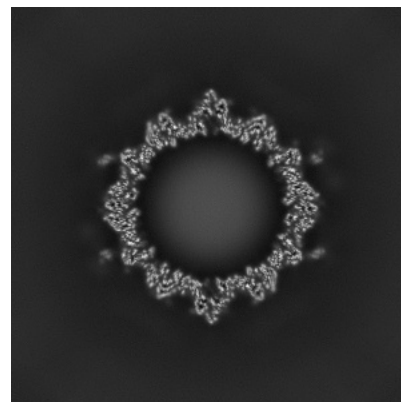
### 6.3.2 Raw map



X Index: 318



Y Index: 282



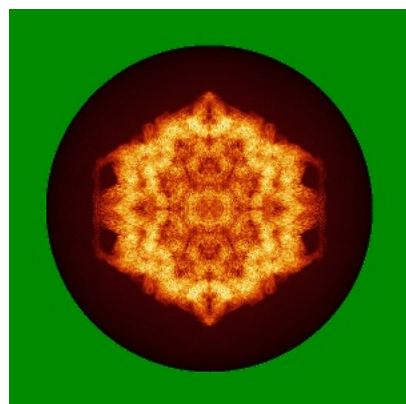
Z Index: 282

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

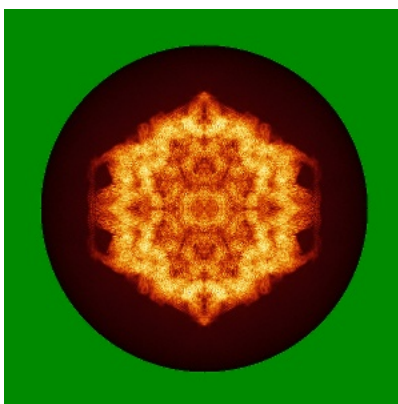


## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

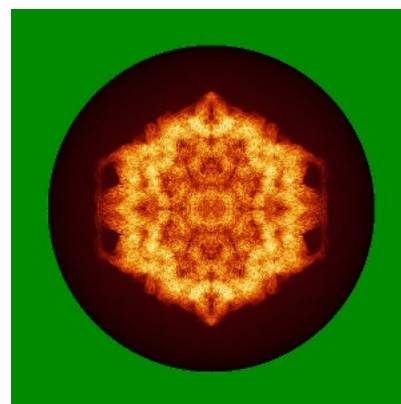
### 6.4.1 Primary map



X

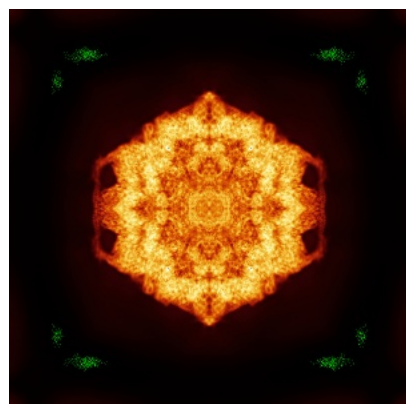


Y

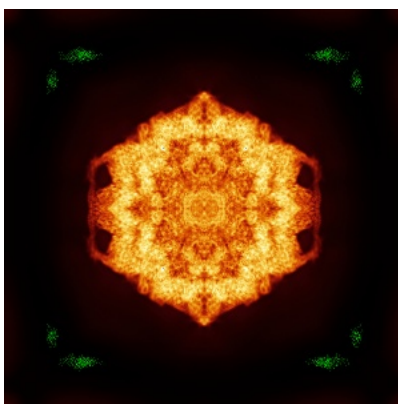


Z

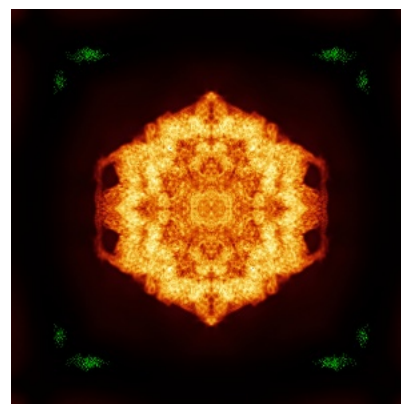
### 6.4.2 Raw map



X



Y



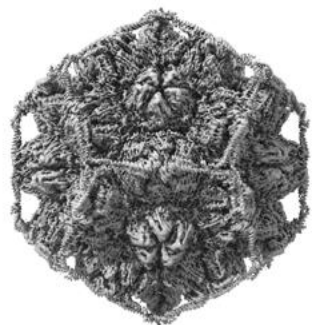
Z

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](#)

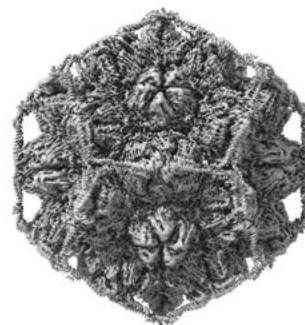
### 6.5.1 Primary map



X



Y



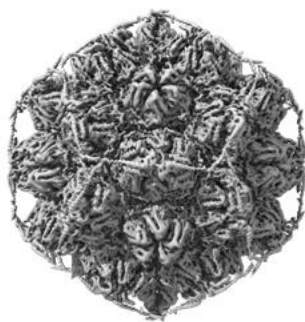
Z

The images above show the 3D surface view of the map at the recommended contour level 0.28. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

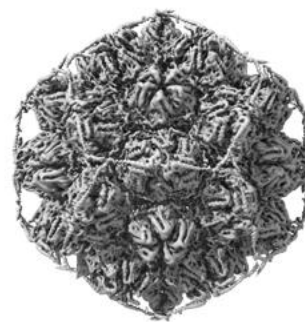
### 6.5.2 Raw map



X



Y



Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

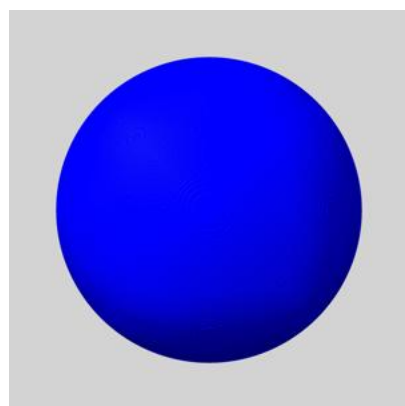
## 6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

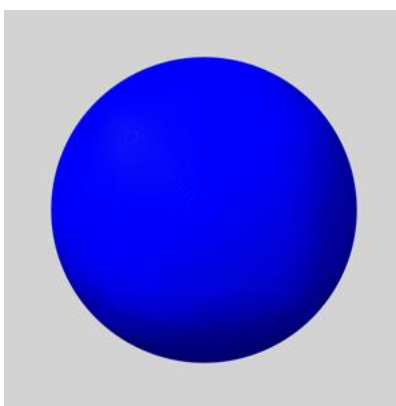
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

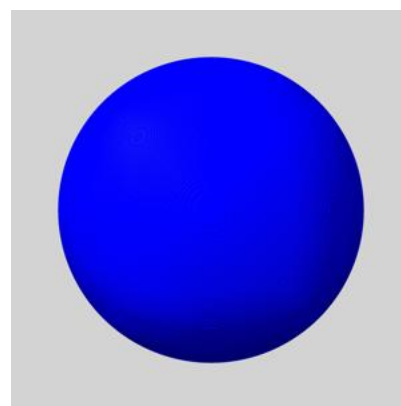
### 6.6.1 emd\_29675\_msk\_1.map [i](#)



X



Y

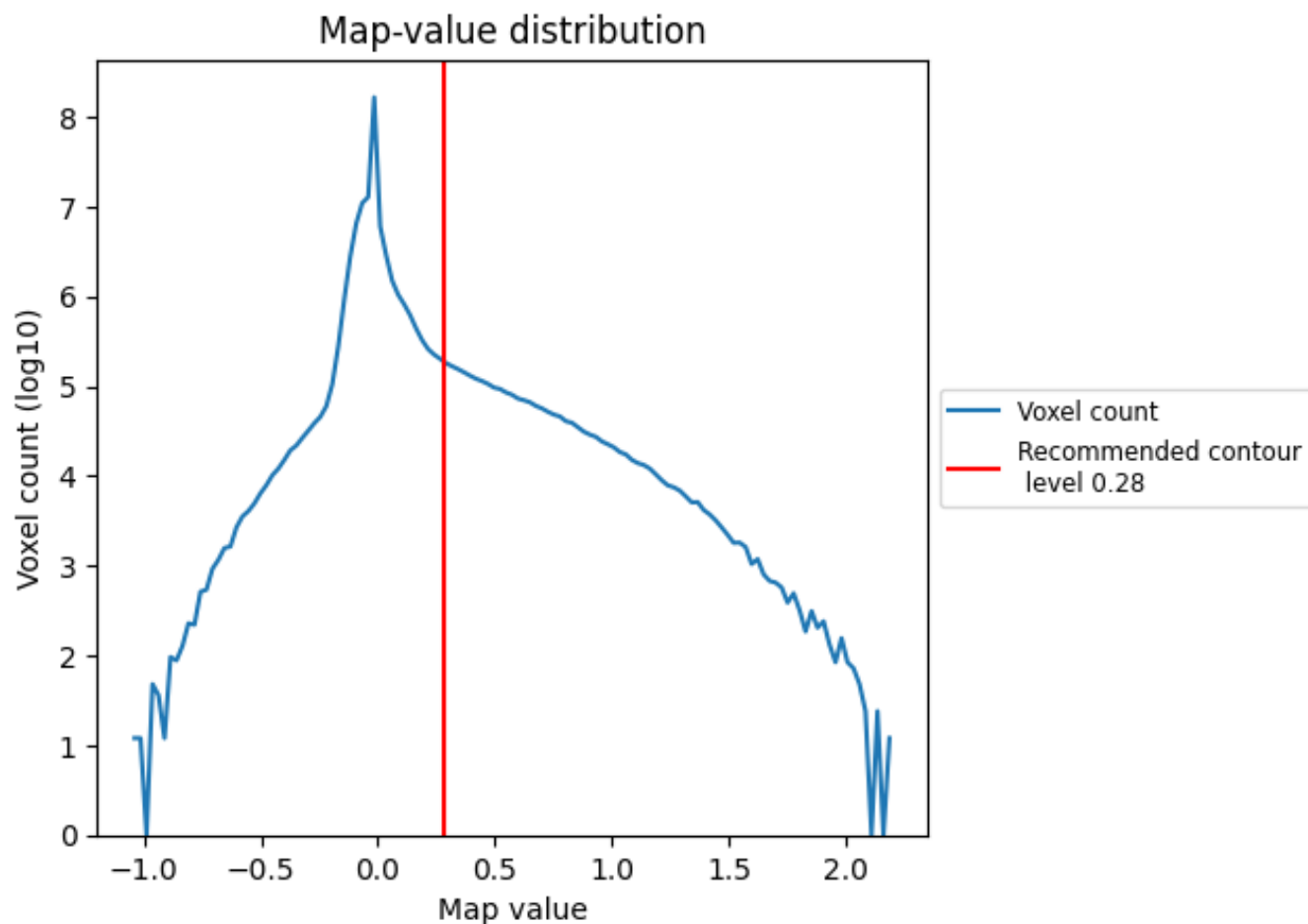


Z

## 7 Map analysis [i](#)

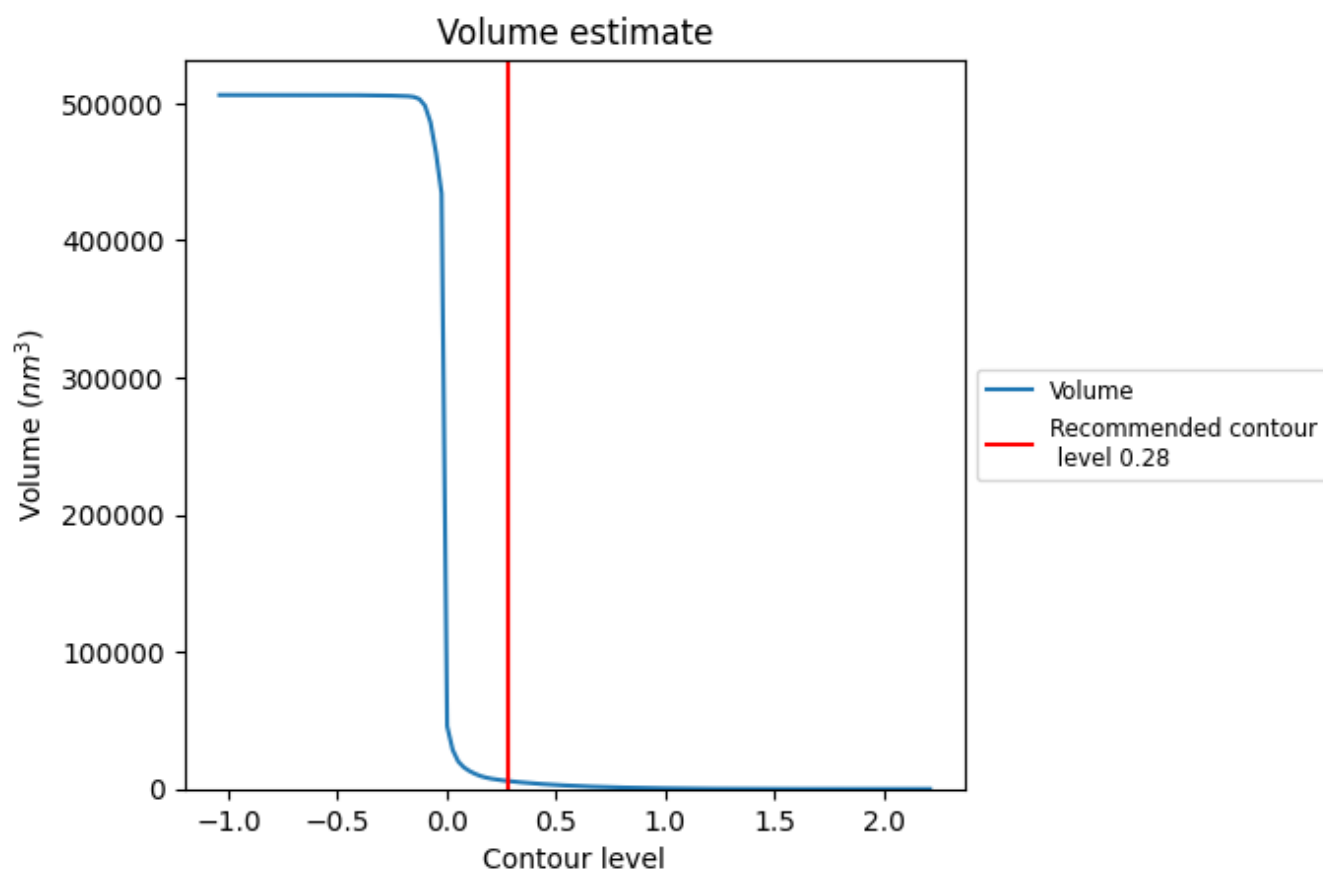
This section contains the results of statistical analysis of the map.

### 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.

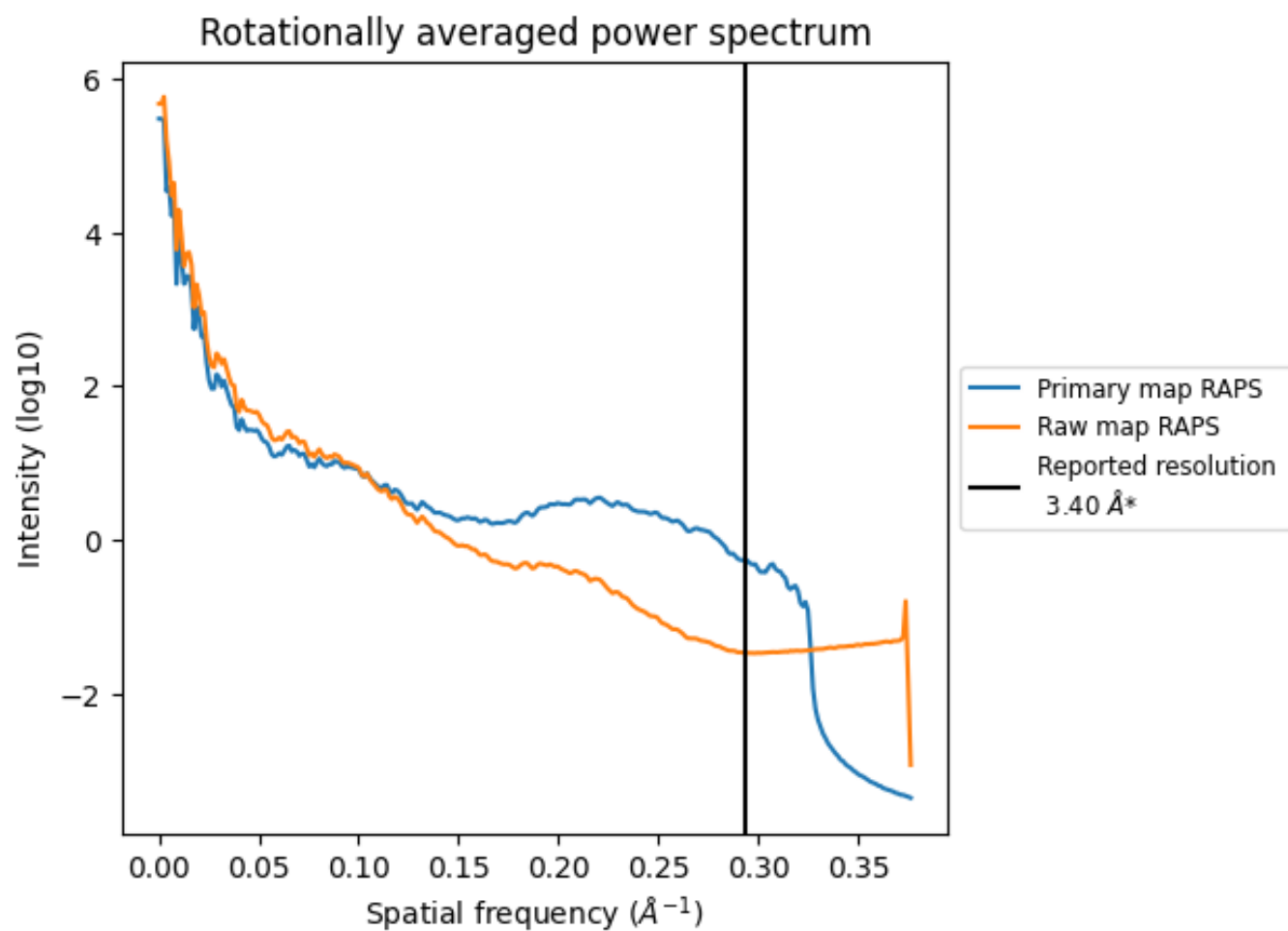
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 5799  $\text{nm}^3$ ; this corresponds to an approximate mass of 5239 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 ⓘ

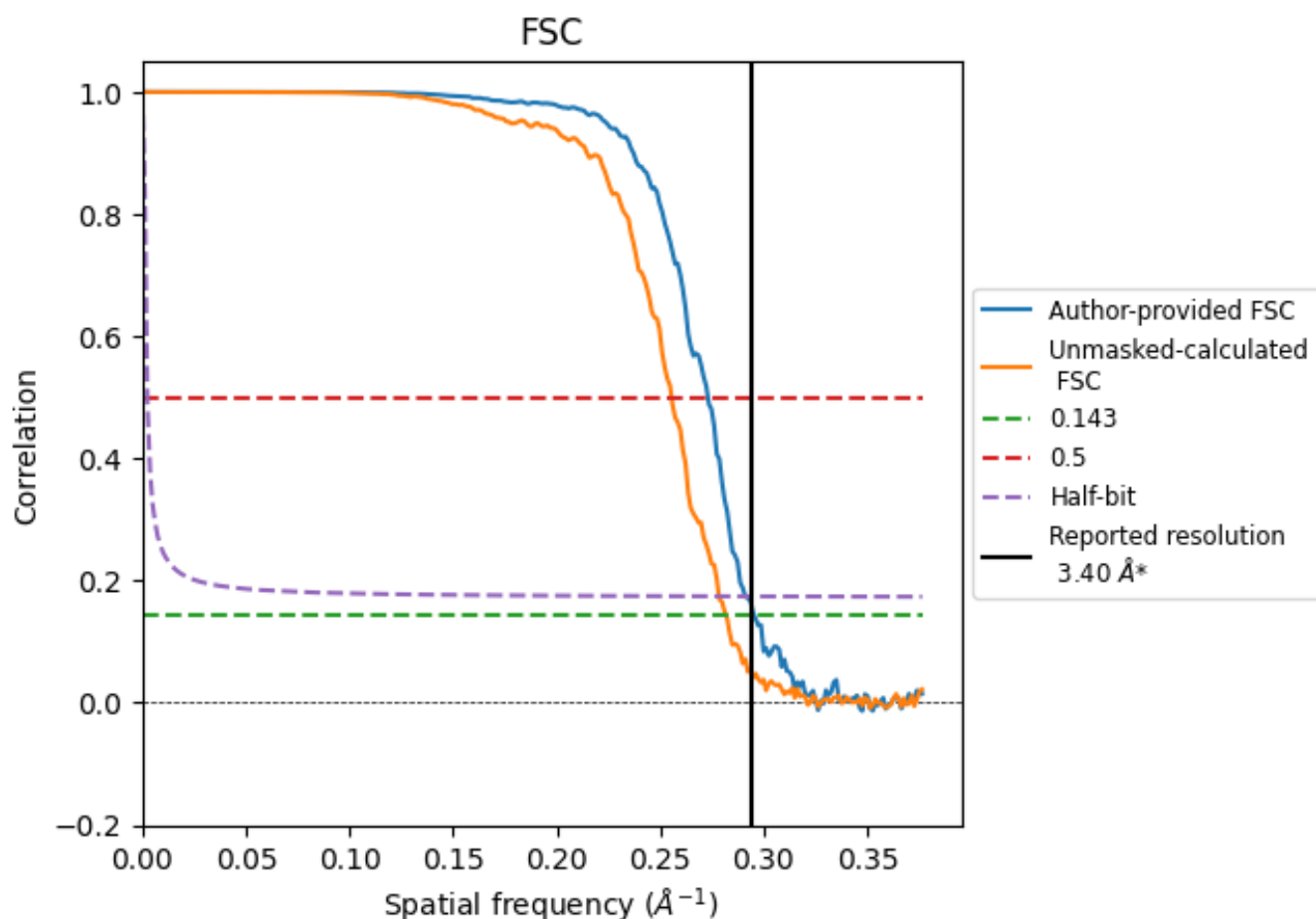


\*Reported resolution corresponds to spatial frequency of 0.294  $\text{\AA}^{-1}$

## 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 0.294  $\text{\AA}^{-1}$

## 8.2 Resolution estimates [i](#)

| Resolution estimate (Å)   | Estimation criterion (FSC cut-off) |      |          |
|---------------------------|------------------------------------|------|----------|
|                           | 0.143                              | 0.5  | Half-bit |
| Reported by author        | 3.40                               | -    | -        |
| Author-provided FSC curve | 3.38                               | 3.66 | 3.44     |
| Unmasked-calculated*      | 3.55                               | 3.91 | 3.59     |

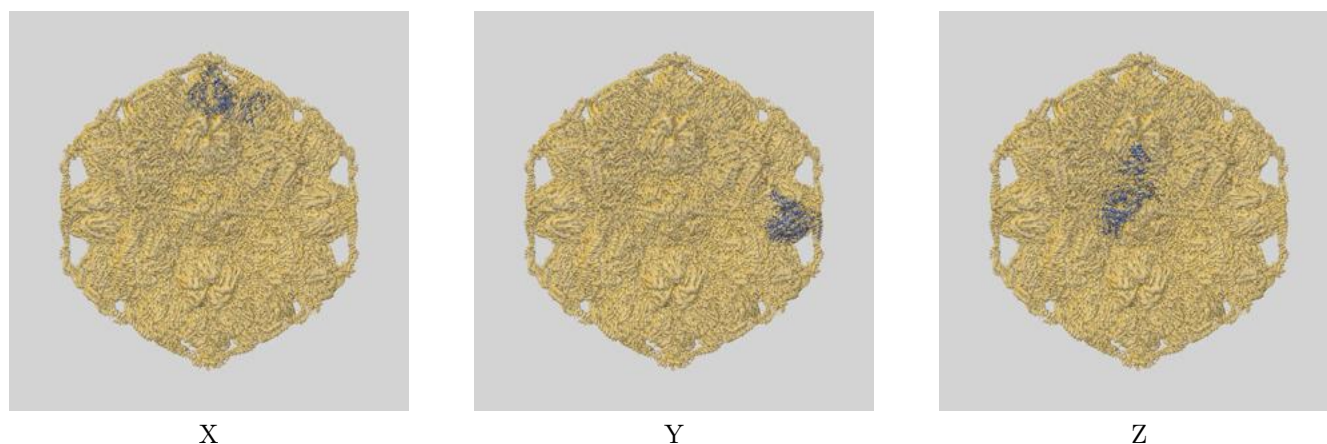
\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

## 9 Map-model fit [i](#)

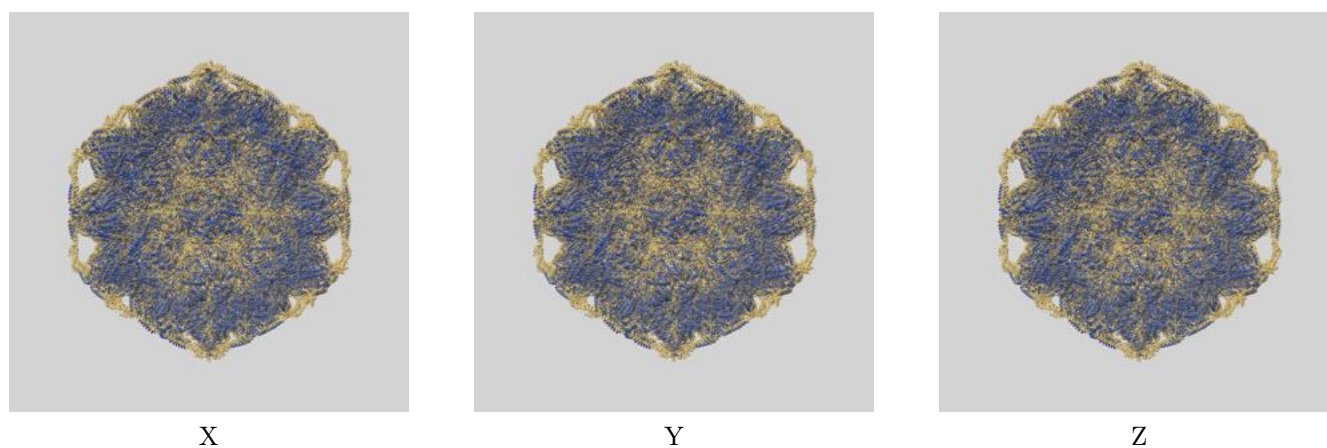
This section contains information regarding the fit between EMDB map EMD-29675 and PDB model 8G1R. Per-residue inclusion information can be found in section [3](#) on page [6](#).

### 9.1 Map-model overlays

#### 9.1.1 Map-model overlay [i](#)



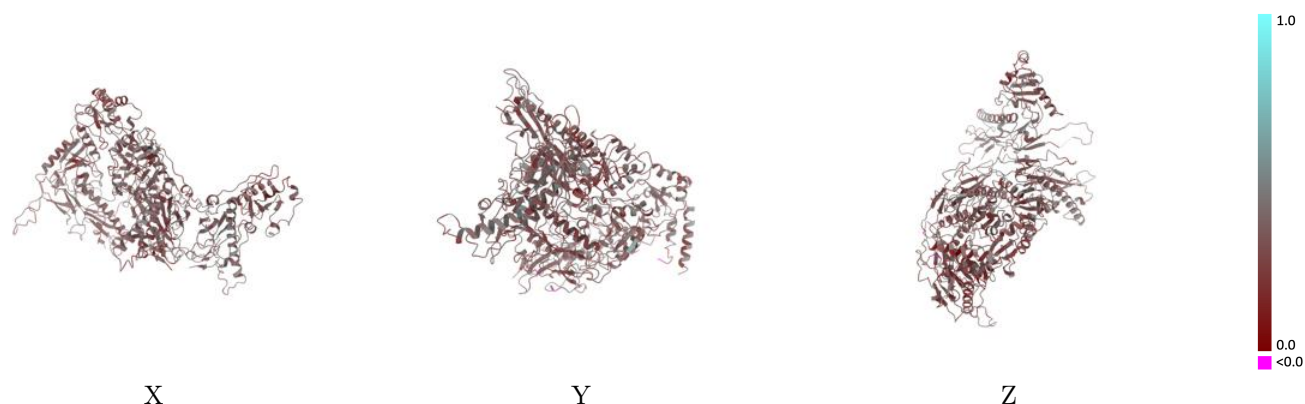
#### 9.1.2 Map-model assembly overlay [i](#)



The images above show the 3D surface view of the map at the recommended contour level 0.28 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.

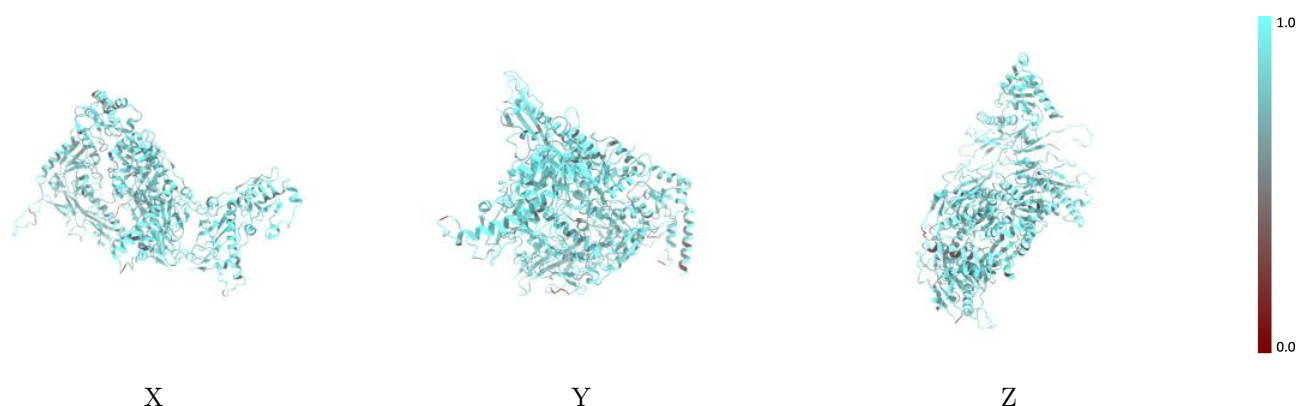


## 9.2 Q-score mapped to coordinate model [i](#)



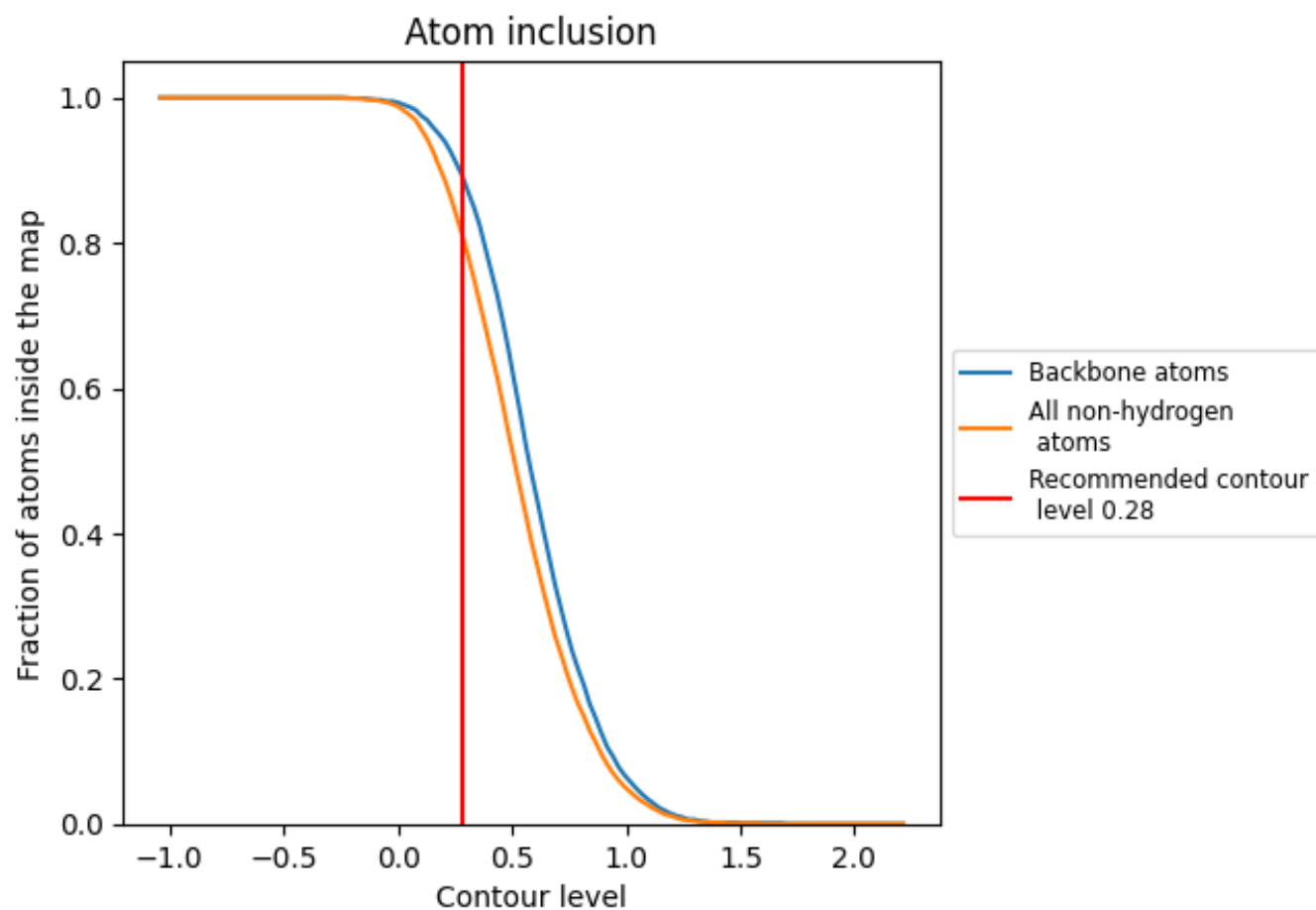
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.28).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 89% of all backbone atoms, 81% 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 (0.28) and Q-score for the entire model and for each chain.

| Chain | Atom inclusion     | Q-score            |
|-------|--------------------|--------------------|
| All   | <div></div> 0.8140 | <div></div> 0.3310 |
| A     | <div></div> 0.7960 | <div></div> 0.2980 |
| B     | <div></div> 0.8150 | <div></div> 0.3290 |
| C     | <div></div> 0.8120 | <div></div> 0.3460 |
| D     | <div></div> 0.8440 | <div></div> 0.3590 |
| E     | <div></div> 0.7810 | <div></div> 0.3070 |

