



# wwPDB EM Validation Summary Report ⓘ

Mar 10, 2026 – 02:14 PM UTC

PDB ID : 3JAB / pdb\_00003jab  
EMDB ID : EMD-6258  
Title : Domain organization and conformational plasticity of the G protein effector, PDE6  
Authors : Zhang, Z.; He, F.; Constantine, R.; Baker, M.L.; Baehr, W.; Schmid, M.F.; Wensel, T.G.; Agosto, M.A.  
Deposited on : 2015-05-26  
Resolution : 11.00 Å (reported)  
Based on initial models : 3DBA, 3JWR, 3IBJ, 12E8

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:

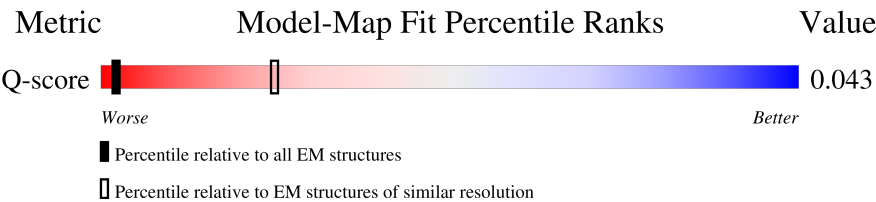
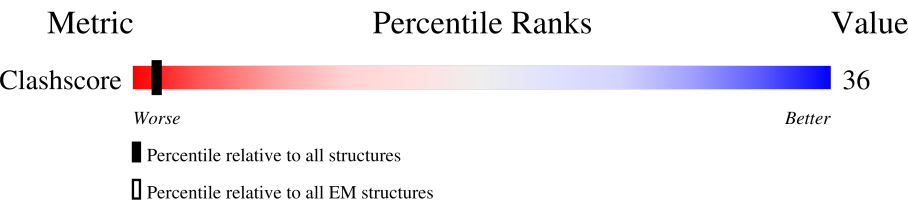
EMDB validation analysis : 0.0.1.dev132  
Mogul : 2022.3.0, CSD as543be (2022)  
MolProbity : 4-5-2 with Phenix2.0  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)  
MapQ : 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 i

The following experimental techniques were used to determine the structure:  
*ELECTRON MICROSCOPY*

The reported resolution of this entry is 11.00 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.



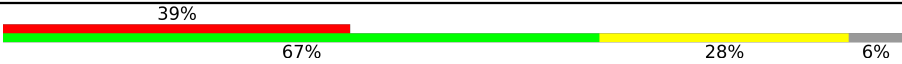
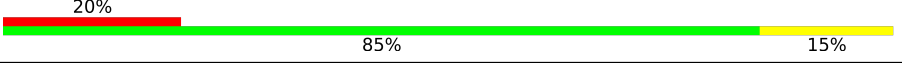
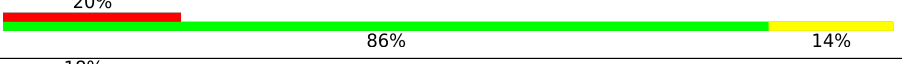
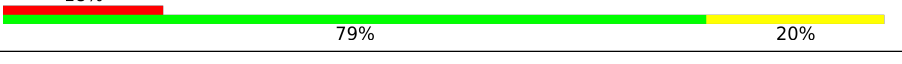
| Metric     | Whole archive<br>(#Entries) | EM structures<br>(#Entries) | Similar EM resolution<br>(#Entries, resolution range(Å)) |
|------------|-----------------------------|-----------------------------|----------------------------------------------------------|
| Clashscore | 229148                      | 23984                       | -                                                        |
| Q-score    | -                           | 25397                       | 97 ( 10.50 - 11.50 )                                     |

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  $\geq 3$ , 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     | 180    | <div><div>17%</div><div><div></div><div>68%</div><div>27%</div><div>5%</div></div></div>              |
| 1   | M     | 180    | <div><div>16%</div><div><div></div><div>69%</div><div>26%</div><div>5%</div></div></div>              |
| 2   | B     | 185    | <div><div>5%</div><div><div></div><div>23%</div><div>59%</div><div>5%</div><div>13%</div></div></div> |
| 2   | N     | 185    | <div><div>6%</div><div><div></div><div>22%</div><div>60%</div><div>5%</div><div>13%</div></div></div> |
| 3   | C     | 330    | <div><div>22%</div><div><div></div><div>60%</div><div>39%</div><div>.</div></div></div>               |
| 3   | O     | 330    | <div><div>22%</div><div><div></div><div>60%</div><div>39%</div><div>.</div></div></div>               |

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| Mol | Chain | Length | Quality of chain                                                                   |
|-----|-------|--------|------------------------------------------------------------------------------------|
| 4   | D     | 18     |  |
| 4   | P     | 18     |  |
| 5   | L     | 214    |  |
| 5   | R     | 214    |  |
| 6   | H     | 221    |  |
| 6   | Q     | 221    |  |

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 17620 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 GafA domain of cone phosphodiesterase 6C.

| Mol | Chain | Residues | Atoms |     |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 1   | A     | 171      | Total | C   | N   | O   | S | 0       | 0     |
|     |       |          | 1368  | 874 | 230 | 256 | 8 |         |       |
| 1   | M     | 171      | Total | C   | N   | O   | S | 0       | 0     |
|     |       |          | 1368  | 874 | 230 | 256 | 8 |         |       |

- Molecule 2 is a protein called GafB domain of phosphodiesterase 2A.

| Mol | Chain | Residues | Atoms |     |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 2   | B     | 161      | Total | C   | N   | O   | S | 0       | 0     |
|     |       |          | 1267  | 805 | 215 | 240 | 7 |         |       |
| 2   | N     | 161      | Total | C   | N   | O   | S | 0       | 0     |
|     |       |          | 1267  | 805 | 215 | 240 | 7 |         |       |

- Molecule 3 is a protein called phosphodiesterase 5/6 chimera catalytic domain.

| Mol | Chain | Residues | Atoms |      |     |     |    | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| 3   | C     | 328      | Total | C    | N   | O   | S  | 0       | 0     |
|     |       |          | 2671  | 1700 | 465 | 487 | 19 |         |       |
| 3   | O     | 328      | Total | C    | N   | O   | S  | 0       | 0     |
|     |       |          | 2671  | 1700 | 465 | 487 | 19 |         |       |

- Molecule 4 is a protein called phosphodiesterase 6 gamma subunit inhibitory peptide.

| Mol | Chain | Residues | Atoms |    |    |    | AltConf | Trace |
|-----|-------|----------|-------|----|----|----|---------|-------|
| 4   | D     | 17       | Total | C  | N  | O  | 0       | 0     |
|     |       |          | 141   | 92 | 23 | 26 |         |       |
| 4   | P     | 17       | Total | C  | N  | O  | 0       | 0     |
|     |       |          | 141   | 92 | 23 | 26 |         |       |

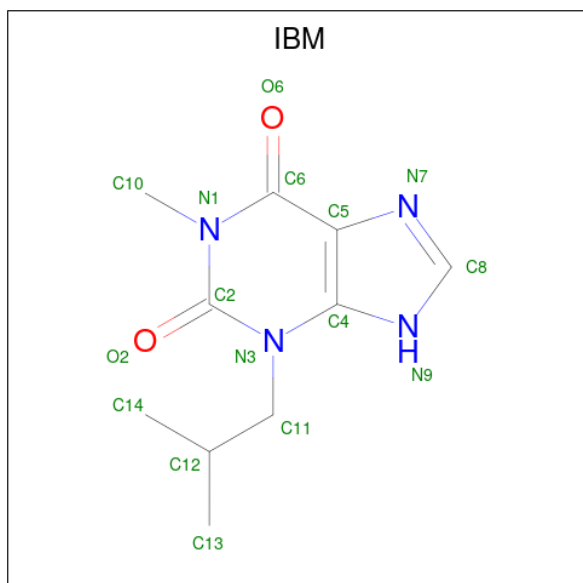
- Molecule 5 is a protein called IgG1-kappa 2E8 light chain.

| Mol | Chain | Residues | Atoms |      |     |     |    | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| 5   | L     | 214      | Total | C    | N   | O   | S  | 0       | 0     |
|     |       |          | 1649  | 1020 | 277 | 342 | 10 |         |       |
| 5   | R     | 214      | Total | C    | N   | O   | S  | 0       | 0     |
|     |       |          | 1649  | 1020 | 277 | 342 | 10 |         |       |

- Molecule 6 is a protein called IgG1-kappa 2E8 heavy chain.

| Mol | Chain | Residues | Atoms |      |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|
| 6   | H     | 221      | Total | C    | N   | O   | S | 0       | 0     |
|     |       |          | 1682  | 1064 | 276 | 336 | 6 |         |       |
| 6   | Q     | 221      | Total | C    | N   | O   | S | 0       | 0     |
|     |       |          | 1682  | 1064 | 276 | 336 | 6 |         |       |

- Molecule 7 is 3-ISOBUTYL-1-METHYLNANTHINE (CCD ID: IBM) (formula: C<sub>10</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>).

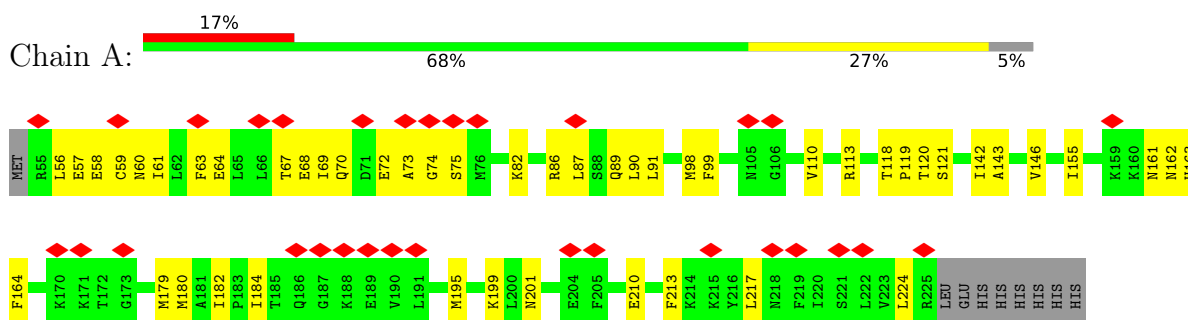


| Mol | Chain | Residues | Atoms |    |   |   | AltConf |
|-----|-------|----------|-------|----|---|---|---------|
| 7   | C     | 1        | Total | C  | N | O | 0       |
|     |       |          | 16    | 10 | 4 | 2 |         |
| 7   | C     | 1        | Total | C  | N | O | 0       |
|     |       |          | 16    | 10 | 4 | 2 |         |
| 7   | O     | 1        | Total | C  | N | O | 0       |
|     |       |          | 16    | 10 | 4 | 2 |         |
| 7   | O     | 1        | Total | C  | N | O | 0       |
|     |       |          | 16    | 10 | 4 | 2 |         |

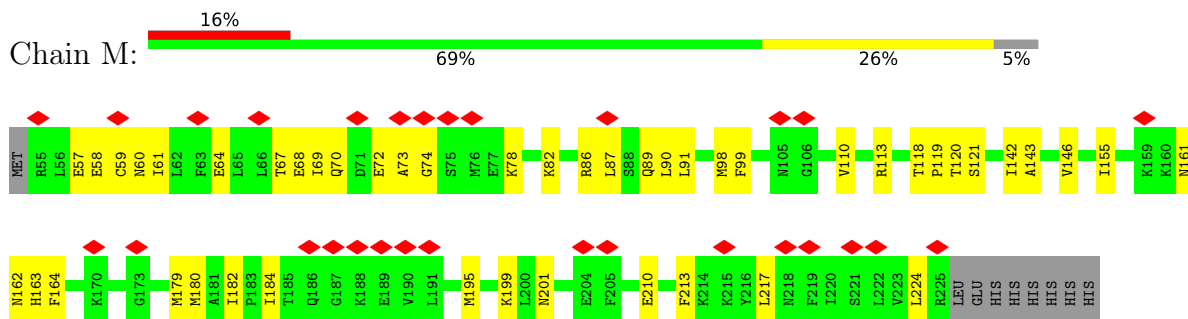
### 3 Residue-property plots [i](#)

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.

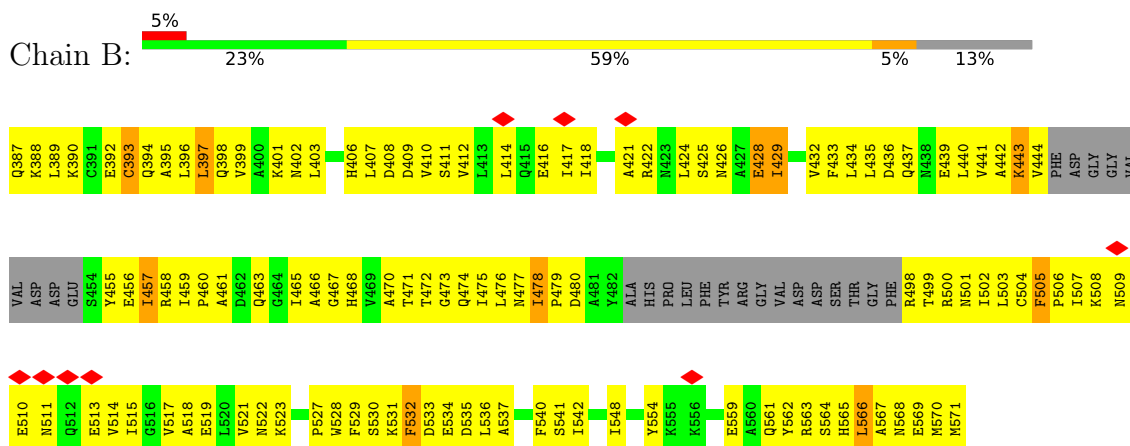
- Molecule 1: GafA domain of cone phosphodiesterase 6C



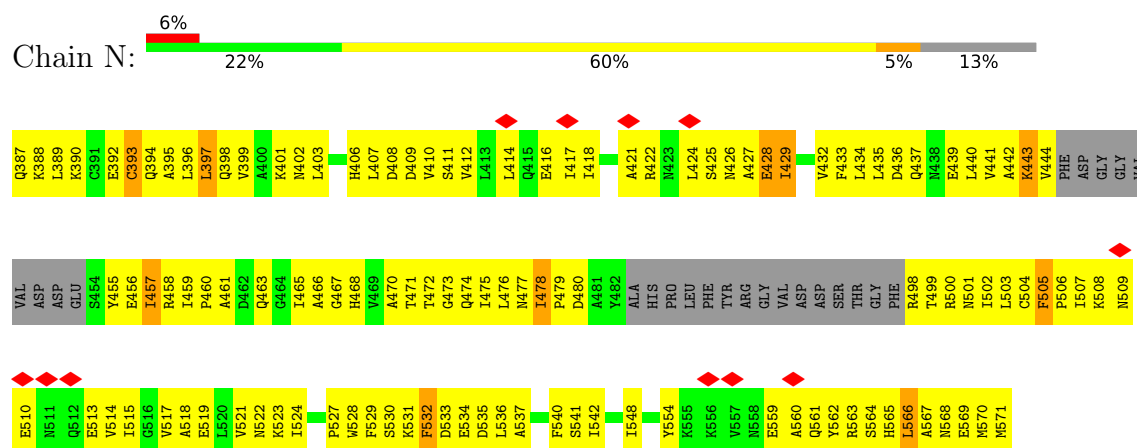
- Molecule 1: GafA domain of cone phosphodiesterase 6C



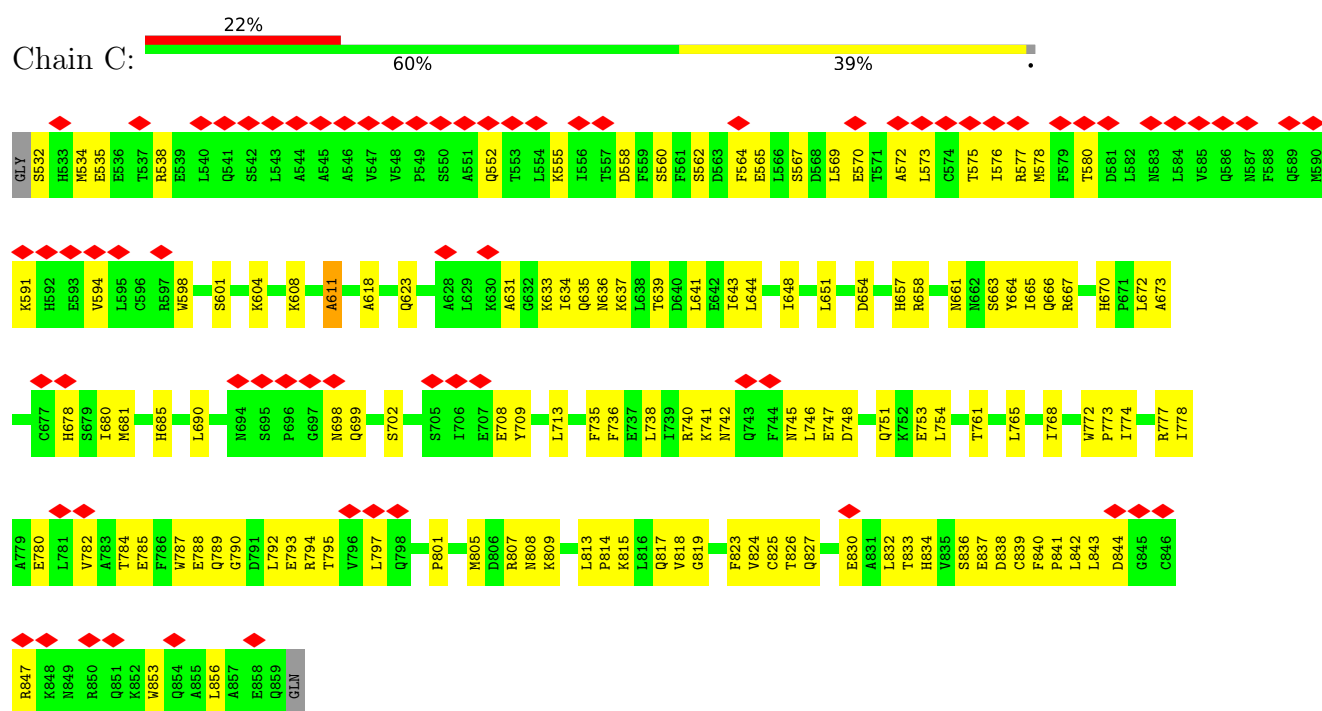
- Molecule 2: GafB domain of phosphodiesterase 2A



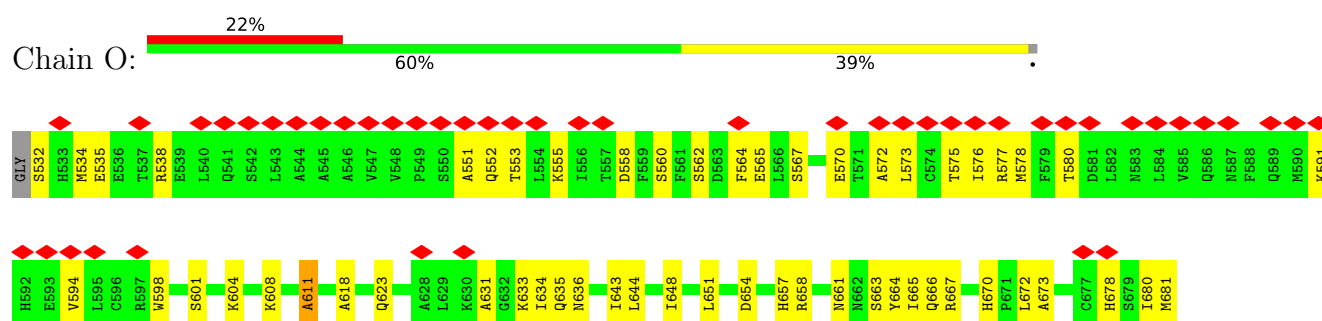
- Molecule 2: GafB domain of phosphodiesterase 2A

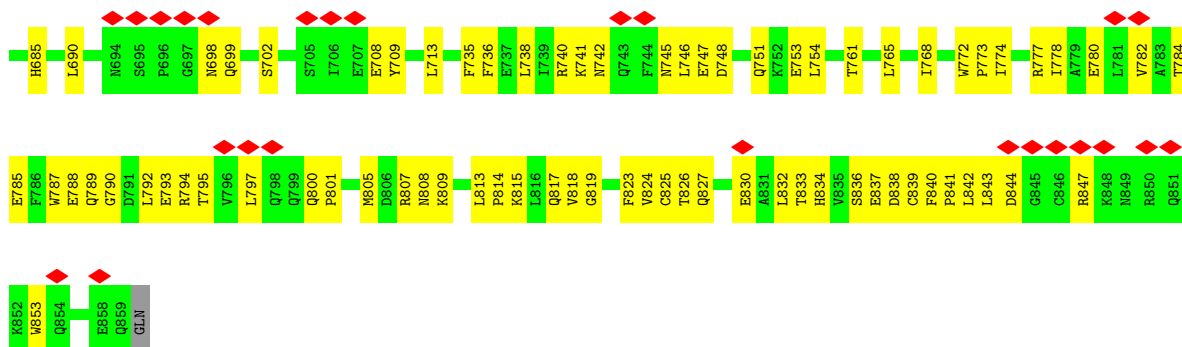


- Molecule 3: phosphodiesterase 5/6 chimera catalytic domain

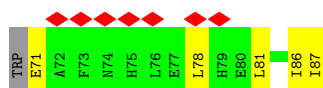
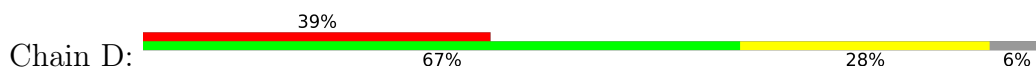


- Molecule 3: phosphodiesterase 5/6 chimera catalytic domain

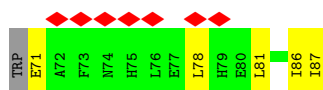
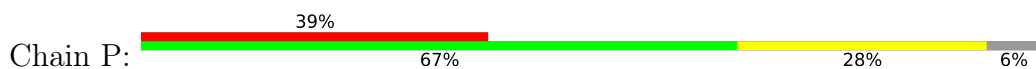




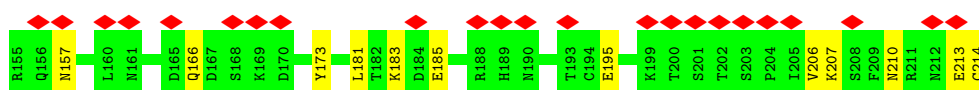
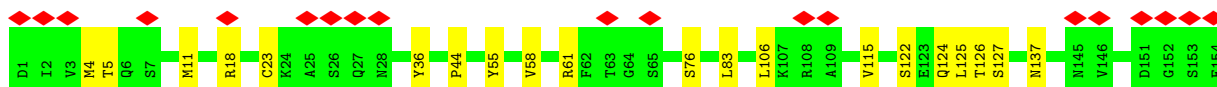
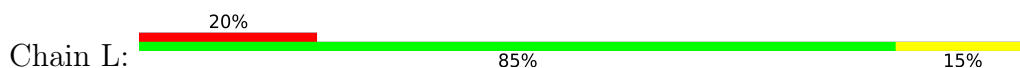
- Molecule 4: phosphodiesterase 6 gamma subunit inhibitory peptide



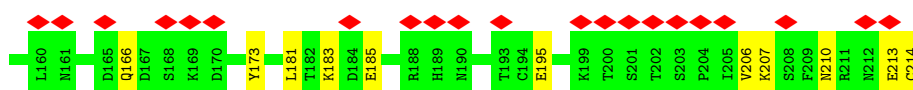
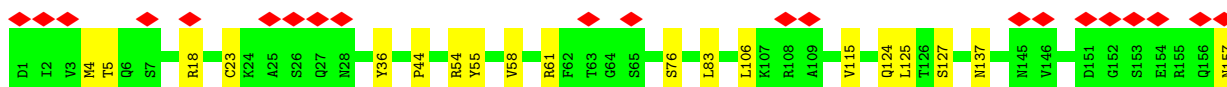
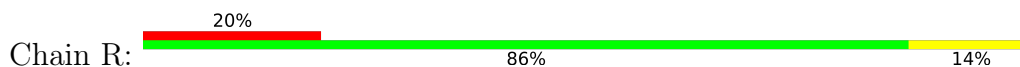
- Molecule 4: phosphodiesterase 6 gamma subunit inhibitory peptide



- Molecule 5: IgG1-kappa 2E8 light chain

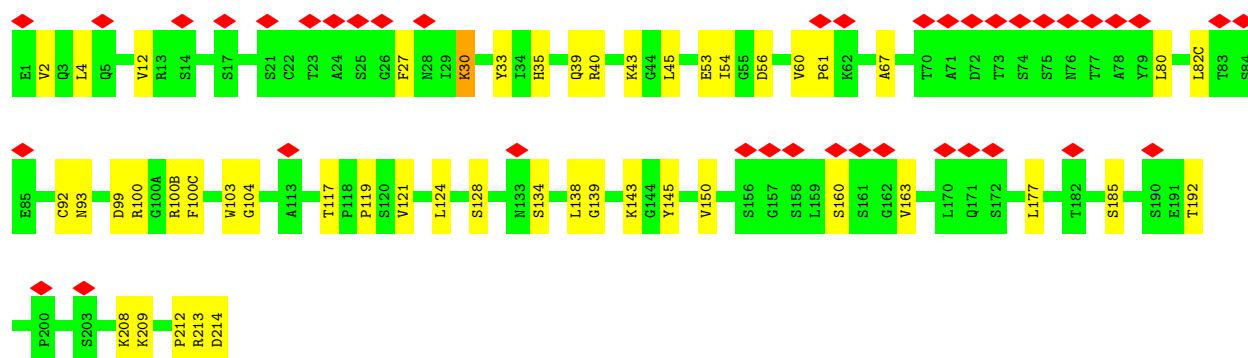
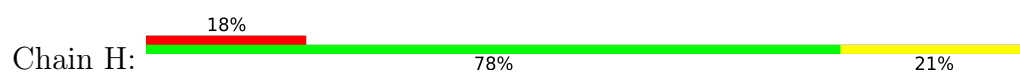


- Molecule 5: IgG1-kappa 2E8 light chain

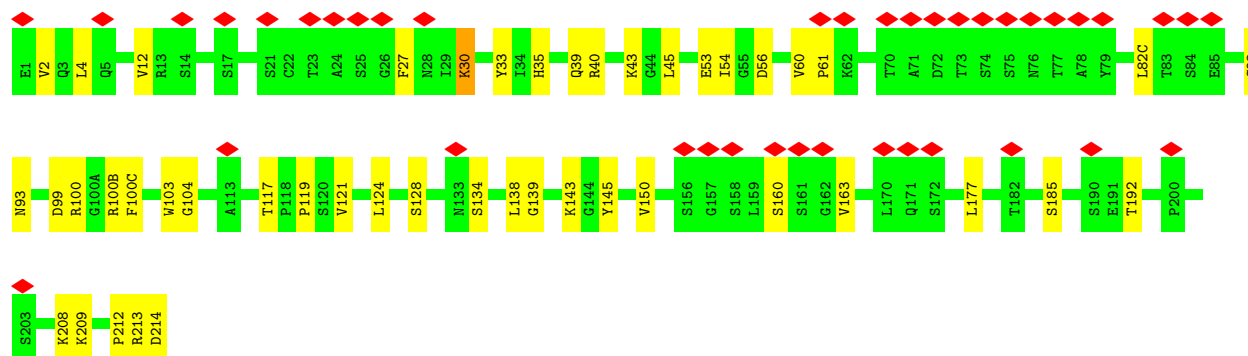
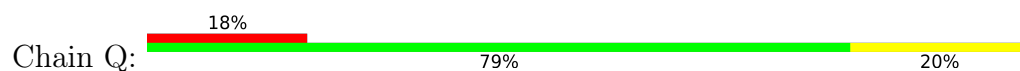


- Molecule 6: IgG1-kappa 2E8 heavy chain





• Molecule 6: IgG1-kappa 2E8 heavy chain



## 4 Experimental information

| Property                             | Value                          | Source    |
|--------------------------------------|--------------------------------|-----------|
| EM reconstruction method             | SINGLE PARTICLE                | Depositor |
| Imposed symmetry                     | POINT, C2                      | Depositor |
| Number of particles used             | 12373                          | Depositor |
| Resolution determination method      | FSC 0.143 CUT-OFF              | Depositor |
| CTF correction method                | EMAN ctf                       | Depositor |
| Microscope                           | JEOL 2010F                     | Depositor |
| Voltage (kV)                         | 200                            | Depositor |
| Electron dose ( $e^-/\text{\AA}^2$ ) | 15                             | Depositor |
| Minimum defocus (nm)                 | Not provided                   |           |
| Maximum defocus (nm)                 | Not provided                   |           |
| Magnification                        | 60000                          | Depositor |
| Image detector                       | GATAN ULTRASCAN 4000 (4k x 4k) | Depositor |
| Maximum map value                    | 1.835                          | Depositor |
| Minimum map value                    | -0.758                         | Depositor |
| Average map value                    | 0.011                          | Depositor |
| Map value standard deviation         | 0.104                          | Depositor |
| Recommended contour level            | 1                              | Depositor |
| Map size ( $\text{\AA}$ )            | 434.4, 434.4, 434.4            | wwPDB     |
| Map dimensions                       | 240, 240, 240                  | wwPDB     |
| Map angles ( $^\circ$ )              | 90.0, 90.0, 90.0               | wwPDB     |
| Pixel spacing ( $\text{\AA}$ )       | 1.81, 1.81, 1.81               | Depositor |

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: IBM

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     | 0.57         | 0/1391         | 0.77        | 0/1877          |
| 1   | M     | 0.57         | 0/1391         | 0.77        | 0/1877          |
| 2   | B     | 0.82         | 1/1285 (0.1%)  | 1.33        | 17/1738 (1.0%)  |
| 2   | N     | 0.82         | 1/1285 (0.1%)  | 1.33        | 17/1738 (1.0%)  |
| 3   | C     | 0.51         | 0/2726         | 0.83        | 1/3685 (0.0%)   |
| 3   | O     | 0.51         | 0/2726         | 0.83        | 1/3685 (0.0%)   |
| 4   | D     | 0.49         | 0/144          | 0.86        | 0/194           |
| 4   | P     | 0.49         | 0/144          | 0.86        | 0/194           |
| 5   | L     | 0.63         | 0/1682         | 0.98        | 4/2278 (0.2%)   |
| 5   | R     | 0.63         | 0/1682         | 0.98        | 4/2278 (0.2%)   |
| 6   | H     | 0.63         | 0/1728         | 1.02        | 9/2366 (0.4%)   |
| 6   | Q     | 0.63         | 0/1728         | 1.02        | 9/2366 (0.4%)   |
| All | All   | 0.62         | 2/17912 (0.0%) | 0.98        | 62/24276 (0.3%) |

All (2) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|-------|-------|-------------|----------|
| 2   | B     | 393 | CYS  | CA-C  | -5.38 | 1.47        | 1.52     |
| 2   | N     | 393 | CYS  | CA-C  | -5.32 | 1.47        | 1.52     |

The worst 5 of 62 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms  | Z    | Observed(°) | Ideal(°) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 2   | N     | 478 | ILE  | CA-C-N | 9.84 | 132.13      | 119.84   |
| 2   | N     | 478 | ILE  | C-N-CA | 9.84 | 132.13      | 119.84   |
| 2   | B     | 478 | ILE  | CA-C-N | 9.78 | 132.06      | 119.84   |
| 2   | B     | 478 | ILE  | C-N-CA | 9.78 | 132.06      | 119.84   |
| 2   | B     | 505 | PHE  | CA-C-N | 7.94 | 127.83      | 120.21   |

There are no chirality outliers.

There are no planarity outliers.

## 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   | A     | 1368  | 0        | 1390     | 274     | 0            |
| 1   | M     | 1368  | 0        | 1393     | 276     | 0            |
| 2   | B     | 1267  | 0        | 1270     | 279     | 0            |
| 2   | N     | 1267  | 0        | 1272     | 310     | 0            |
| 3   | C     | 2671  | 0        | 2668     | 265     | 0            |
| 3   | O     | 2671  | 0        | 2668     | 263     | 0            |
| 4   | D     | 141   | 0        | 131      | 7       | 0            |
| 4   | P     | 141   | 0        | 131      | 7       | 0            |
| 5   | L     | 1649  | 0        | 1578     | 17      | 0            |
| 5   | R     | 1649  | 0        | 1578     | 16      | 0            |
| 6   | H     | 1682  | 0        | 1625     | 60      | 0            |
| 6   | Q     | 1682  | 0        | 1625     | 57      | 0            |
| 7   | C     | 32    | 0        | 28       | 4       | 0            |
| 7   | O     | 32    | 0        | 28       | 4       | 0            |
| All | All   | 17620 | 0        | 17385    | 1264    | 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 36.

The worst 5 of 1264 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) |
|-----------------|-----------------|--------------------------|-------------------|
| 3:C:633:LYS:HB2 | 3:O:840:PHE:CE2 | 1.21                     | 1.69              |
| 3:C:840:PHE:CE2 | 3:O:633:LYS:HB2 | 1.21                     | 1.63              |
| 2:B:554:TYR:HE1 | 2:N:554:TYR:CE1 | 1.04                     | 1.62              |
| 2:B:554:TYR:CE1 | 2:N:554:TYR:HE1 | 1.05                     | 1.61              |
| 3:C:633:LYS:CB  | 3:O:840:PHE:HE2 | 1.10                     | 1.60              |

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](#)

4 ligands are modelled in this entry.

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

| Mol | Type | Chain | Res | Link | Bond lengths |      |             | Bond angles |      |             |
|-----|------|-------|-----|------|--------------|------|-------------|-------------|------|-------------|
|     |      |       |     |      | Counts       | RMSZ | $\# Z  > 2$ | Counts      | RMSZ | $\# Z  > 2$ |
| 7   | IBM  | O     | 901 | -    | 17,17,17     | 1.52 | 5 (29%)     | 19,25,25    | 2.17 | 10 (52%)    |
| 7   | IBM  | O     | 902 | -    | 17,17,17     | 1.35 | 3 (17%)     | 19,25,25    | 1.94 | 7 (36%)     |
| 7   | IBM  | C     | 901 | -    | 17,17,17     | 1.52 | 5 (29%)     | 19,25,25    | 2.17 | 10 (52%)    |
| 7   | IBM  | C     | 902 | -    | 17,17,17     | 1.35 | 3 (17%)     | 19,25,25    | 1.94 | 7 (36%)     |

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings   |
|-----|------|-------|-----|------|---------|----------|---------|
| 7   | IBM  | O     | 901 | -    | -       | 2/4/4/4  | 0/2/2/2 |
| 7   | IBM  | O     | 902 | -    | -       | 2/4/4/4  | 0/2/2/2 |
| 7   | IBM  | C     | 901 | -    | -       | 2/4/4/4  | 0/2/2/2 |
| 7   | IBM  | C     | 902 | -    | -       | 2/4/4/4  | 0/2/2/2 |

The worst 5 of 16 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|-------|-------|-------------|----------|
| 7   | C     | 901 | IBM  | C4-N3 | -3.03 | 1.33        | 1.38     |
| 7   | O     | 901 | IBM  | C4-N3 | -3.03 | 1.33        | 1.38     |
| 7   | C     | 902 | IBM  | C6-N1 | -2.49 | 1.35        | 1.40     |
| 7   | O     | 902 | IBM  | C6-N1 | -2.49 | 1.35        | 1.40     |
| 7   | C     | 901 | IBM  | C6-N1 | -2.46 | 1.35        | 1.40     |

The worst 5 of 34 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms      | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 7   | C     | 902 | IBM  | N3-C2-N1   | 4.13  | 121.82      | 116.72   |
| 7   | O     | 902 | IBM  | N3-C2-N1   | 4.13  | 121.82      | 116.72   |
| 7   | C     | 901 | IBM  | N3-C2-N1   | 3.60  | 121.16      | 116.72   |
| 7   | O     | 901 | IBM  | N3-C2-N1   | 3.60  | 121.16      | 116.72   |
| 7   | C     | 901 | IBM  | C12-C11-N3 | -3.51 | 107.29      | 112.38   |

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms          |
|-----|-------|-----|------|----------------|
| 7   | C     | 902 | IBM  | N3-C11-C12-C13 |
| 7   | C     | 902 | IBM  | N3-C11-C12-C14 |
| 7   | O     | 902 | IBM  | N3-C11-C12-C13 |
| 7   | O     | 902 | IBM  | N3-C11-C12-C14 |
| 7   | C     | 901 | IBM  | C12-C11-N3-C2  |

There are no ring outliers.

4 monomers are involved in 8 short contacts:

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 7   | O     | 901 | IBM  | 1       | 0            |
| 7   | O     | 902 | IBM  | 3       | 0            |
| 7   | C     | 901 | IBM  | 1       | 0            |
| 7   | C     | 902 | IBM  | 3       | 0            |

## 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.

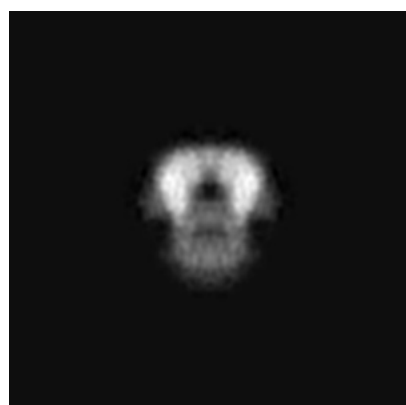
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6258. 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](#)

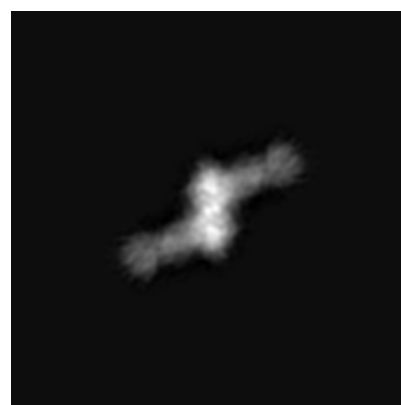
#### 6.1.1 Primary map



X



Y



Z

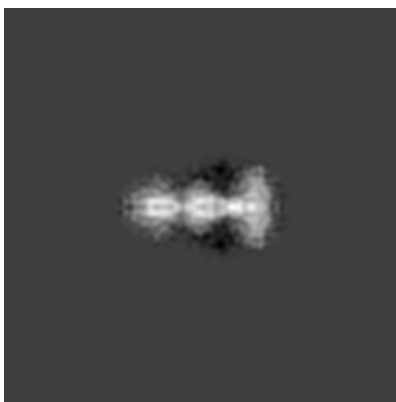
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

#### 6.2.1 Primary map



X Index: 120



Y Index: 120



Z Index: 120



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: 120



Y Index: 102

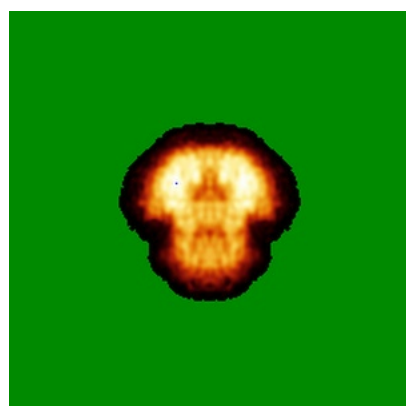


Z Index: 139

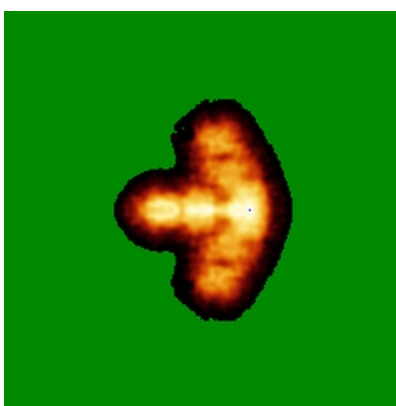
The images above show the largest variance slices of the map in three orthogonal directions.

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

### 6.4.1 Primary map



X



Y

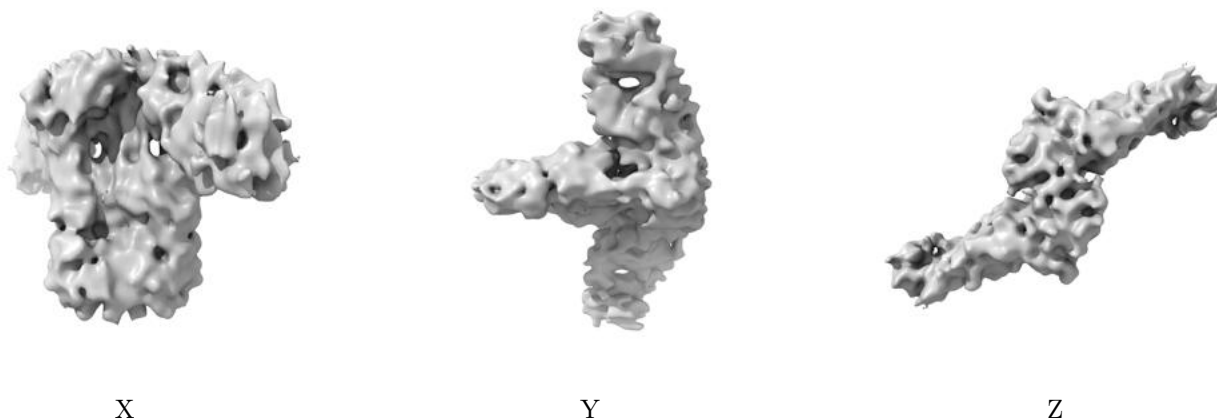


Z

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



The images above show the 3D surface view of the map at the recommended contour level 1.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

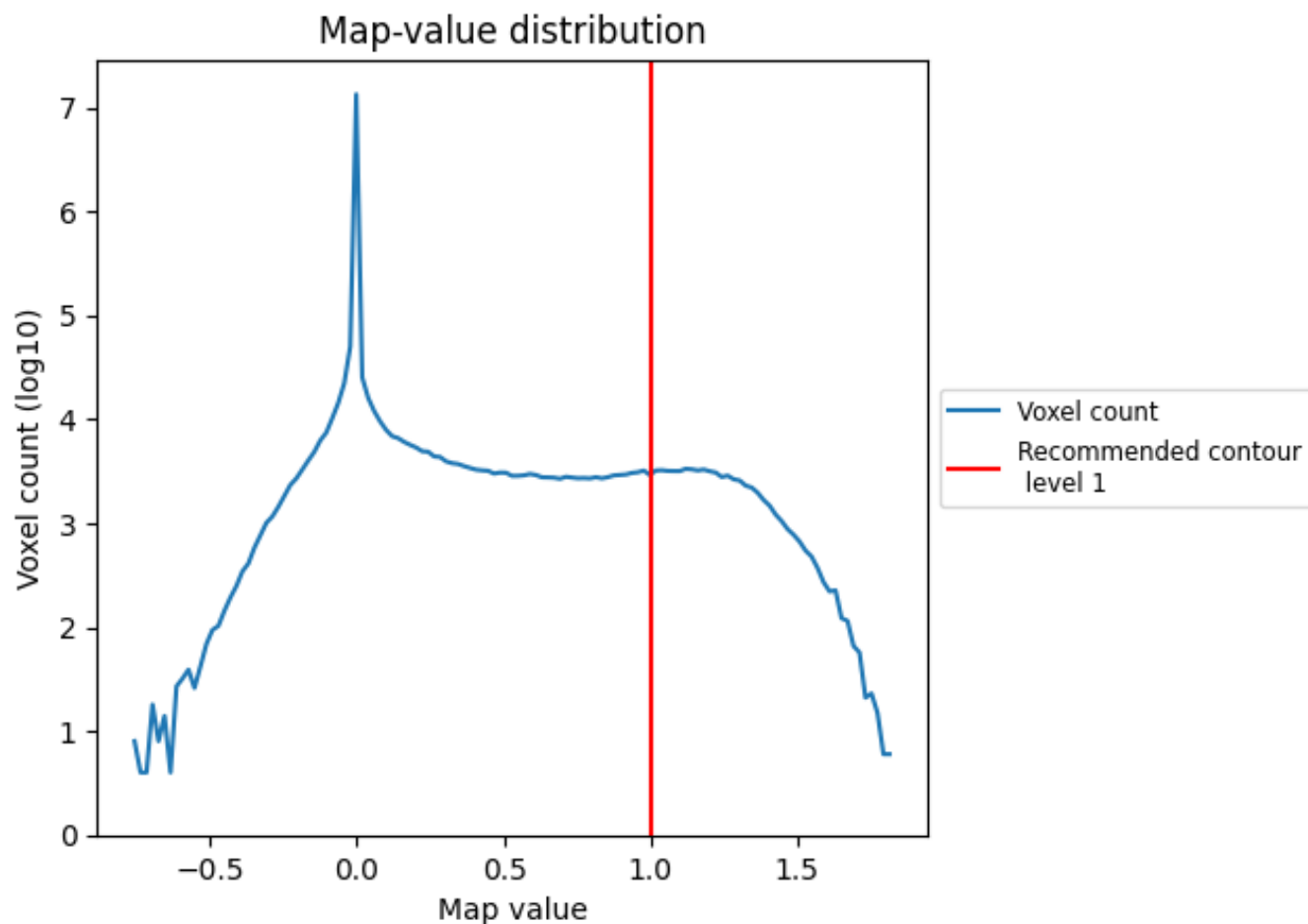
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

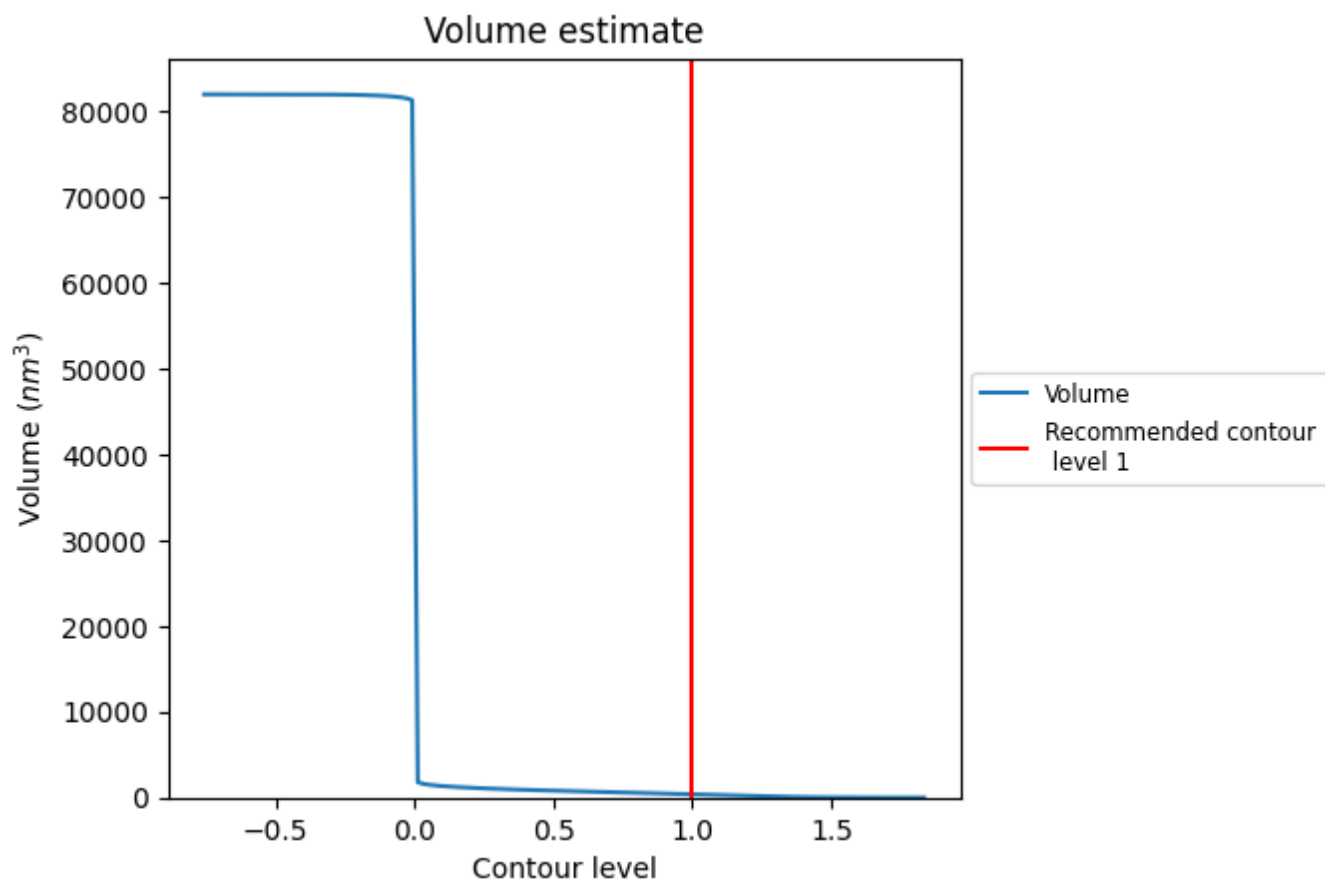
This section contains the results of statistical analysis of the map.

### 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.

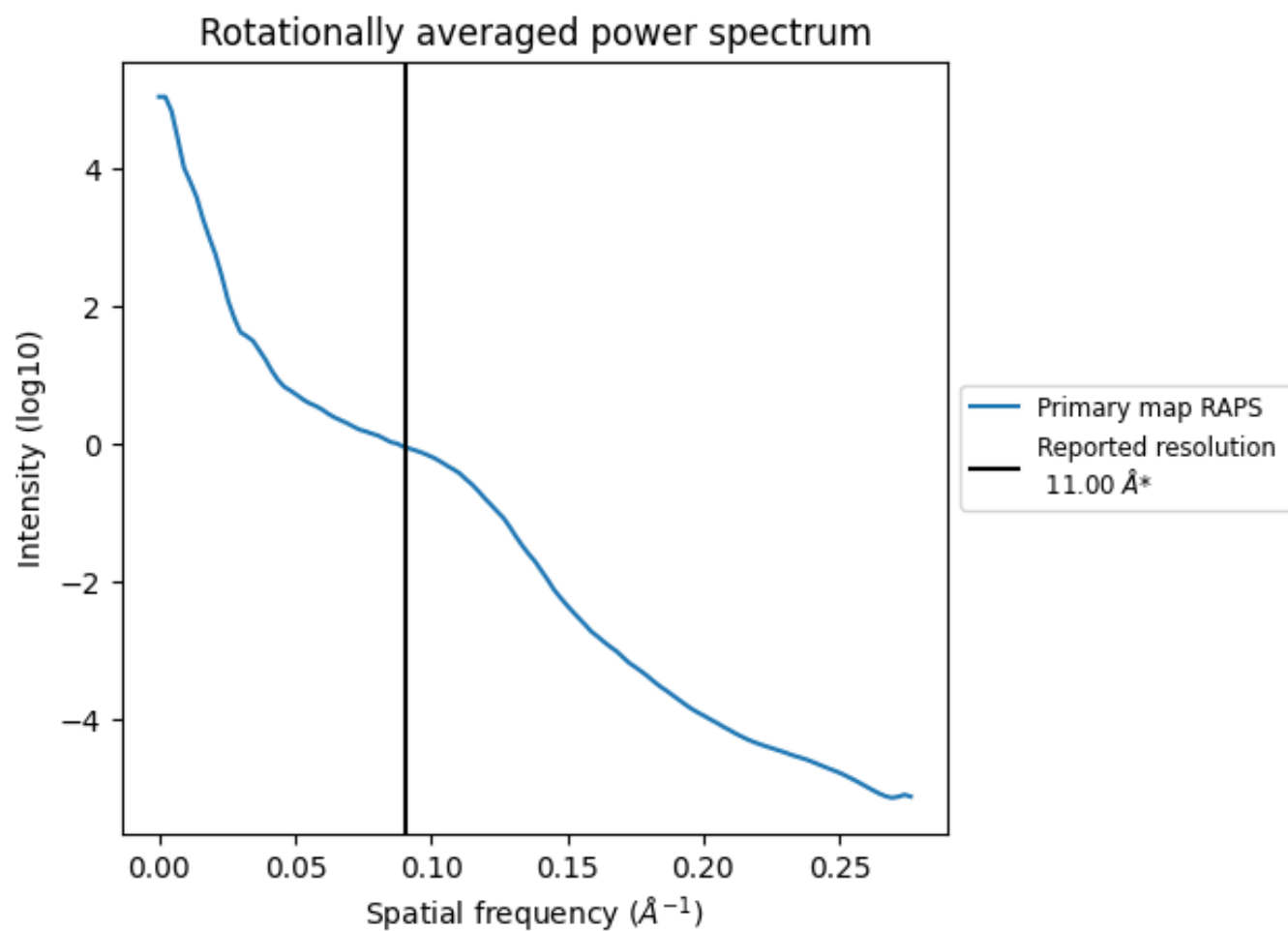
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 390 nm<sup>3</sup>; this corresponds to an approximate mass of 352 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 0.091 Å<sup>-1</sup>

## 8 Fourier-Shell correlation

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

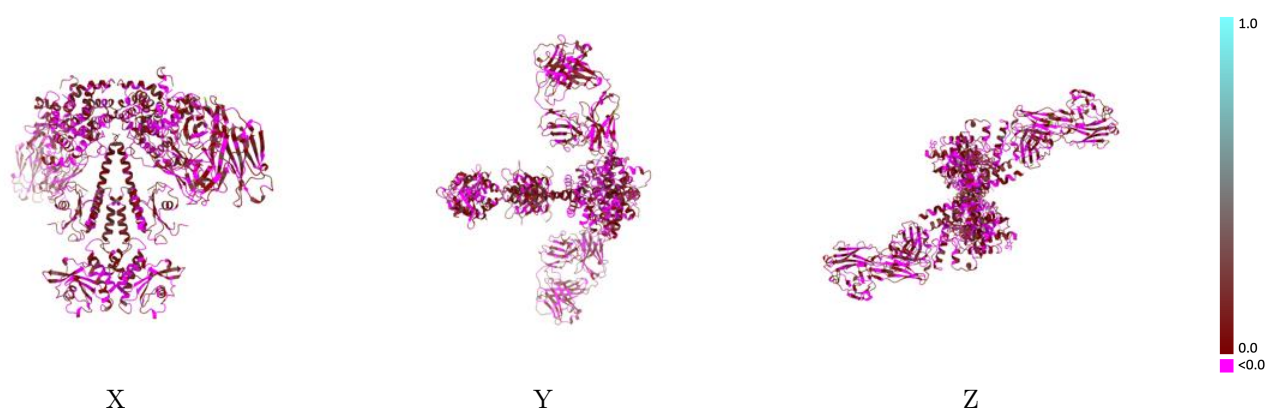
## 9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-6258 and PDB model 3JAB. Per-residue inclusion information can be found in section 3 on page 6.

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

This section was not generated.

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

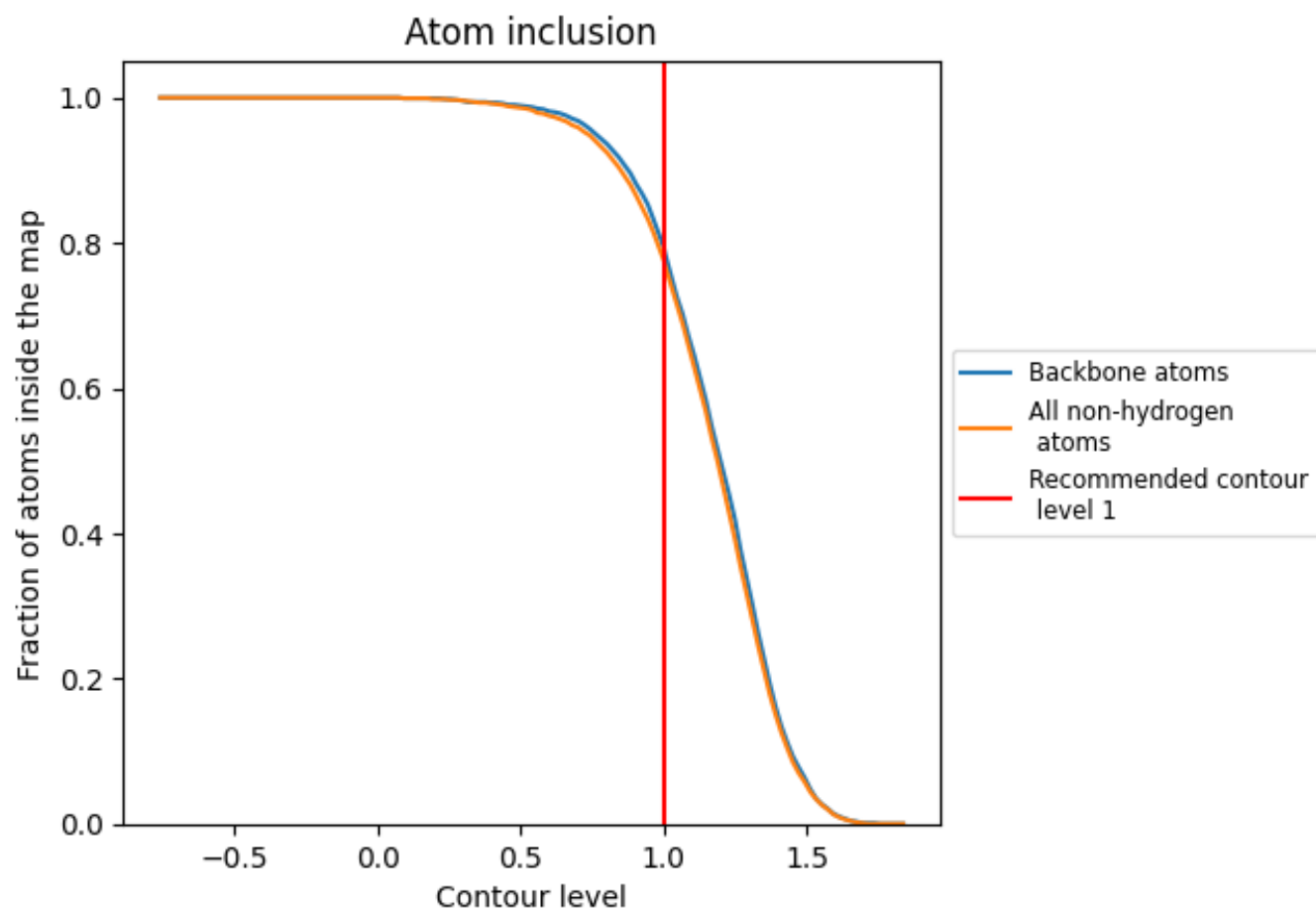


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

This section was not generated.

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 79% of all backbone atoms, 78% 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 (1) and Q-score for the entire model and for each chain.

| Chain | Atom inclusion     | Q-score            |
|-------|--------------------|--------------------|
| All   | <div></div> 0.7750 | <div></div> 0.0430 |
| A     | <div></div> 0.7760 | <div></div> 0.0250 |
| B     | <div></div> 0.9020 | <div></div> 0.0870 |
| C     | <div></div> 0.7380 | <div></div> 0.0240 |
| D     | <div></div> 0.5640 | <div></div> 0.0160 |
| H     | <div></div> 0.7980 | <div></div> 0.0550 |
| L     | <div></div> 0.7330 | <div></div> 0.0450 |
| M     | <div></div> 0.7750 | <div></div> 0.0260 |
| N     | <div></div> 0.8990 | <div></div> 0.0820 |
| O     | <div></div> 0.7380 | <div></div> 0.0250 |
| P     | <div></div> 0.5500 | <div></div> 0.0160 |
| Q     | <div></div> 0.7970 | <div></div> 0.0600 |
| R     | <div></div> 0.7350 | <div></div> 0.0450 |

1.0

0.0

<0.0