PDB ID : 6JG3
EMDB ID : EMD-9823
Title : Cryo-EM structure of RyR2 (Ca2+ alone dataset)
Authors : Chi, X.M.; Gong, D.S.; Ren, K.; Zhou, G.W.; Huang, G.X.Y.; Lei, J.L.; Zhou, Q.; Yan, N.
Deposited on : 2019-02-13
Resolution : 6.10 Å (reported)

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 following versions of software and data (see references) were used in the production of this report:

EMDB validation analysis : 0.0.0.dev61
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.15.1
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

**ELECTRON MICROSCOPY**

The reported resolution of this entry is 6.10 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.

<table>
<thead>
<tr>
<th>Metric</th>
<th>Whole archive (#Entries)</th>
<th>EM structures (#Entries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clashscore</td>
<td>158937</td>
<td>4297</td>
</tr>
<tr>
<td>Ramachandran outliers</td>
<td>154571</td>
<td>4023</td>
</tr>
<tr>
<td>Sidechain outliers</td>
<td>154315</td>
<td>3826</td>
</tr>
</tbody>
</table>

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 $<=5%$. 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.
2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 106185 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 Ryanodine receptor 2.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>3477</td>
<td>Total C</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
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<td>N</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>O</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td></td>
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<td>4951</td>
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<td>157</td>
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</table>

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
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</thead>
<tbody>
<tr>
<td>2</td>
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<td>1</td>
<td>Total Zn</td>
<td>0</td>
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<tr>
<td></td>
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<td></td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).
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: Ryanodine receptor 2

Chain A:
• Molecule 1: Ryanodine receptor 2

Chain B:
• Molecule 1: Ryanodine receptor 2

Chain C:

15% 47% 22% 30%
• Molecule 1: Ryanodine receptor 2

Chain D:
## 4 Experimental information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM reconstruction method</td>
<td>SINGLE PARTICLE</td>
<td>Depositor</td>
</tr>
<tr>
<td>Imposed symmetry</td>
<td>POINT, C4</td>
<td>Depositor</td>
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<tr>
<td>Number of particles used</td>
<td>24250</td>
<td>Depositor</td>
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<td>Resolution determination method</td>
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<td>CTF correction method</td>
<td>PHASE FLIPPING AND AMPLITUDE CORRECTION</td>
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<td>Microscope</td>
<td>FEI TITAN KRIOS</td>
<td>Depositor</td>
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<td>Depositor</td>
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<tr>
<td>Electron dose ((e^-/\AA^2))</td>
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<td>Depositor</td>
</tr>
<tr>
<td>Minimum defocus (nm)</td>
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<td></td>
</tr>
<tr>
<td>Maximum defocus (nm)</td>
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<tr>
<td>Magnification</td>
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<tr>
<td>Image detector</td>
<td>GATAN K2 SUMMIT (4k x 4k)</td>
<td>Depositor</td>
</tr>
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<td>Maximum map value</td>
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<tr>
<td>Minimum map value</td>
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<td>Map size (Å)</td>
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<tr>
<td>Map dimensions</td>
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<tr>
<td>Map angles (°)</td>
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</tr>
<tr>
<td>Pixel spacing (Å)</td>
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</tbody>
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5 Model quality

5.1 Standard geometry

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

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).

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<th>Bond lengths</th>
<th>Bond angles</th>
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<td>#</td>
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<td>1</td>
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</tr>
<tr>
<td>1</td>
<td>D</td>
<td>0.40</td>
<td>0/27031</td>
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<tr>
<td>All</td>
<td>All</td>
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<td>0/108133</td>
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</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>#Chirality outliers</th>
<th>#Planarity outliers</th>
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<tr>
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<tr>
<td>All</td>
<td>All</td>
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</tbody>
</table>

There are no bond length outliers.

All (59) bond angle outliers are listed below:

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<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>4820</td>
<td>VAL</td>
<td>CB-CA-C</td>
<td>-7.94</td>
<td>96.32</td>
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<td>1</td>
<td>C</td>
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<td>CB-CA-C</td>
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<td>125.81</td>
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<td>4833</td>
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<td>130.55</td>
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<td>130.50</td>
<td>115.30</td>
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Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
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<td>Peptide</td>
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</table>

Continued on next page...
### 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.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Non-H</th>
<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
<th>Symm-Clashes</th>
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<td>25084</td>
<td>786</td>
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<tr>
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<td>25084</td>
<td>830</td>
<td>0</td>
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<tr>
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<tr>
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<td>D</td>
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<td>25075</td>
<td>820</td>
<td>0</td>
</tr>
<tr>
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<td>A</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>C</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
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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 15.

All (3072) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
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<tr>
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<td>1:C:4822:VAL:CG1</td>
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</tr>
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1:B:681:HIS:HB2   1:B:799:LYS:HG2   1.91  0.52
1:C:2425:ARG:NH2  1:C:2476:VAL:O   2.43  0.52
1:C:4138:GLU:HA   1:C:4148:ARG:HA   1.91  0.52
1:C:4960:ARG:NH1  1:C:4964:GLU:O   2.42  0.52
1:D:1570:LEU:O    1:D:1573:SER:OG   2.24  0.52
1:A:2090:HIS:O    1:A:2094:ASP:N   2.43  0.52
1:A:2425:ARG:NH2  1:A:2476:VAL:O   2.43  0.52
1:B:38:ALA:HB2    1:B:50:GLU:HB2   1.92  0.52
1:D:3983:LEU:O    1:D:3987:LEU:HB2 2.08  0.52
1:D:4814:TYR:O    1:D:4818:MET:HB2 2.09  0.52
1:A:1108:VAL:HG12 1:A:1109:THR:HG23 1.92  0.52
1:A:1300:MET:N    1:A:1545:ALA:O   2.40  0.52
1:A:3956:GLN:HA   1:A:3959:LEU:HB2 1.91  0.52
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1:D:3956:GLN:HA   1:D:3959:LEU:HB2 1.91  0.52
1:A:1470:GLY:HA2  1:A:1474:GLY:HA2 1.92  0.52
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1:D:695:VAL:HG22  1:D:792:VAL:HG13 1.91  0.52
1:A:1912:GLN:HE21 1:A:2088:LEU:HD23 1.74  0.52
1:A:3890:TYR:O    1:A:3894:SER:HB3  2.09  0.52
1:B:1172:THR:HB   1:B:1190:LEU:HD22 1.92  0.52
1:B:3890:TYR:O    1:B:3894:SER:HB3  2.09  0.52
1:B:4187:MET:HA   1:B:4190:PHE:HB3  1.91  0.52
1:B:4936:GLY:O    1:B:4940:TYR:CB   2.58  0.52
1:C:1108:VAL:HG12 1:C:1109:THR:HG23 1.92  0.52
1:D:244:CYS:O     1:D:263:GLU:N    2.40  0.52
1:D:633:CYS:O     1:D:637:LEU:N    2.41  0.52
1:A:1228:THR:HA   1:A:1232:LEU:HD12 1.90  0.52
1:A:280:LEU:HD23  1:A:296:ARG:HH11 1.75  0.52

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## Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
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1:B:4862:ILE:O | 1:B:4866:LEU:HB2 | 2.10 | 0.52
1:B:695:VAL:HG22 | 1:B:792:VAL:HG13 | 1.91 | 0.52
1:C:1304:LEU:HG | 1:C:1591:LEU:H | 1.75 | 0.52
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1:C:3692:TYR:HA | 1:C:3695:ILE:HD12 | 1.92 | 0.52
1:D:1459:LEU:HD13 | 1:D:1465:VAL:HG23 | 1.92 | 0.52
1:D:3692:TYR:HA | 1:D:3695:ILE:HD12 | 1.92 | 0.52
1:D:4138:GLU:HA | 1:D:4148:ARG:HA | 1.91 | 0.52
1:A:2027:ARG:HH12 | 1:A:2031:LEU:HB2 | 1.75 | 0.51
1:B:1570:LEU:O | 1:B:1573:SER:OG | 2.24 | 0.51
1:B:280:LEU:HD23 | 1:B:296:ARG:HH11 | 1.75 | 0.51
1:B:3692:TYR:HA | 1:B:3695:ILE:HD12 | 1.92 | 0.51
1:B:4930:ASP:O | 1:B:4934:HIS:N | 2.42 | 0.51
1:C:25:THR:HG22 | 1:C:34:LYS:HG2 | 1.92 | 0.51
1:C:4085:VAL:O | 1:C:4089:HIS:N | 2.36 | 0.51
1:C:4930:ASP:O | 1:C:4934:HIS:N | 2.42 | 0.51
1:C:559:ILE:HG21 | 1:C:593:HIS:HD1 | 1.75 | 0.51
1:C:733:TRP:HB3 | 1:C:736:CYS:HA | 1.92 | 0.51
1:D:262:TYR:HB2 | 1:D:389:ARG:HB3 | 1.92 | 0.51
1:A:1843:LEU:O | 1:A:1847:GLU:N | 2.40 | 0.51
1:A:3743:GLN:NE2 | 1:A:3781:TYR:OH | 2.35 | 0.51
1:A:38:ALA:HB2 | 1:A:50:GLU:HB2 | 1.92 | 0.51
1:A:4936:GLY:O | 1:A:4940:TYR:CB | 2.57 | 0.51
1:A:681:HIS:HB2 | 1:A:799:LYS:HG2 | 1.91 | 0.51
1:B:1912:GLN:HE21 | 1:B:2088:LEU:HD23 | 1.74 | 0.51
1:B:4184:LYS:CA | 1:C:4904:HIS:NE2 | 2.73 | 0.51
1:B:645:GLN:HB3 | 1:B:1631:HIS:HE1 | 1.74 | 0.51
1:B:4849:ILE:CG2 | 1:C:4822:VAL:HB | 2.40 | 0.51
1:D:280:LEU:HD23 | 1:D:296:ARG:HH11 | 1.75 | 0.51
1:A:459:LEU:HA | 1:A:462:TYR:HB3 | 1.92 | 0.51
1:A:4862:ILE:O | 1:A:4866:LEU:HB2 | 2.10 | 0.51
1:B:1304:LEU:HG | 1:B:1591:LEU:H | 1.75 | 0.51
1:C:1184:ASP:OD2 | 1:C:1188:SER:OG | 2.27 | 0.51
1:C:1630:LEU:HD22 | 1:C:1641:ILE:HD13 | 1.90 | 0.51

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### Interatomic Distances and Clashes

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<td>1:C:790:PRO:HB3</td>
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There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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.

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<th>Allowed</th>
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<th>Percentiles</th>
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<td>2934 (88%)</td>
<td>408 (12%)</td>
<td>13 (0%)</td>
<td>34 72</td>
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<tr>
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<td>3355/4968 (68%)</td>
<td>2936 (88%)</td>
<td>407 (12%)</td>
<td>12 (0%)</td>
<td>34 72</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>3355/4968 (68%)</td>
<td>2934 (88%)</td>
<td>408 (12%)</td>
<td>13 (0%)</td>
<td>34 72</td>
</tr>
<tr>
<td>1</td>
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<td>3355/4968 (68%)</td>
<td>2938 (88%)</td>
<td>405 (12%)</td>
<td>12 (0%)</td>
<td>34 72</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>13420/19872 (68%)</td>
<td>11742 (88%)</td>
<td>1628 (12%)</td>
<td>50 (0%)</td>
<td>38 72</td>
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All (50) Ramachandran outliers are listed below:

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5.3.2 Protein sidechains

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.

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<td>2640 (99%)</td>
<td>38 (1%)</td>
<td>67 80</td>
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<tr>
<td>1</td>
<td>B</td>
<td>2678/4355 (62%)</td>
<td>2640 (99%)</td>
<td>38 (1%)</td>
<td>67 80</td>
</tr>
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<td>C</td>
<td>2677/4355 (62%)</td>
<td>2641 (99%)</td>
<td>36 (1%)</td>
<td>69 82</td>
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<td>2676/4355 (61%)</td>
<td>2642 (99%)</td>
<td>34 (1%)</td>
<td>69 82</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>10709/17420 (62%)</td>
<td>10563 (99%)</td>
<td>146 (1%)</td>
<td>68 80</td>
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All (146) residues with a non-rotameric sidechain are listed below:

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5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

There are no monosaccharides in this entry.

5.6 Ligand geometry

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.
There are no bond length outliers.
There are no bond angle outliers.
There are no chirality outliers.
There are no torsion outliers.
There are no ring outliers.
No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-9823. 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

6.1.1 Primary map

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

6.2 Central slices

6.2.1 Primary map

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

6.3 Largest variance slices

6.3.1 Primary map

![Images of central slices in three orthogonal directions with indices X: 95, Y: 105, Z: 107.]

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

6.4 Orthogonal surface views

6.4.1 Primary map

![Images of 3D surface view of the map at the recommended contour level 0.065 in X, Y, and Z directions.]

The images above show the 3D surface view of the map at the recommended contour level 0.065. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.
6.5 Mask visualisation

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

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

7.1 Map-value distribution

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

The volume at the recommended contour level is 947 nm$^3$; this corresponds to an approximate mass of 855 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 0.164 Å⁻¹
8 Fourier-Shell correlation

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

*Reported resolution corresponds to spatial frequency of 0.164 Å$^{-1}$
8.2 Resolution estimates

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*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-9823 and PDB model 6JG3. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay

The images above show the 3D surface view of the map at the recommended contour level 0.065 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 Atom inclusion

At the recommended contour level, 80% of all backbone atoms, 59% of all non-hydrogen atoms, are inside the map.