PDB ID : 1O1B
EMDB ID: : EMD-1001
Title : MOLECULAR MODELS OF AVERAGED RIGOR CROSSBRIDGES FROM TOMOGRAMS OF INSECT FLIGHT MUSCLE
Authors : Chen, L.F.; Winkler, H.; Reedy, M.K.; Reedy, M.C.; Taylor, K.A.
Deposited on : 2002-11-15
Resolution : 70.00 Å (reported)
Based on PDB ID : 1ATN, 2MYS

This is a Full wwPDB/EMDataBank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
with specific help available everywhere you see the ı symbol.

MolProbity : 4.02b-467
Mogul : 1.7.3 (157068), CSD as539be (2018)
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20031172
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 70.00 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.

![Graphic of percentile ranks](image)

<table>
<thead>
<tr>
<th>Metric</th>
<th>Whole archive (#Entries)</th>
<th>EM structures (#Entries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clashscore</td>
<td>136327</td>
<td>1886</td>
</tr>
<tr>
<td>Ramachandran outliers</td>
<td>132723</td>
<td>1663</td>
</tr>
<tr>
<td>Sidechain outliers</td>
<td>132532</td>
<td>1531</td>
</tr>
</tbody>
</table>

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. 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%

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Length</th>
<th>Quality of chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>840</td>
<td>26% 50% 19% .</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>840</td>
<td>26% 51% 19% .</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>840</td>
<td>25% 53% 19% .</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>840</td>
<td>25% 51% 20% .</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>145</td>
<td>66% 25% 6% .</td>
</tr>
<tr>
<td>2</td>
<td>E</td>
<td>145</td>
<td>63% 28% 6% .</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>145</td>
<td>63% 28% 6% .</td>
</tr>
<tr>
<td>2</td>
<td>K</td>
<td>145</td>
<td>65% 26% 6% .</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>147</td>
<td>61% 37% .</td>
</tr>
</tbody>
</table>

*Continued on next page...*
The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Chirality</th>
<th>Geometry</th>
<th>Clashes</th>
<th>Electron density</th>
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<tbody>
<tr>
<td>1</td>
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<td></td>
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<tr>
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<td>MLY</td>
<td>A</td>
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<td>X</td>
<td></td>
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<tr>
<td>1</td>
<td>MLY</td>
<td>A</td>
<td>768</td>
<td></td>
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<td>X</td>
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</tr>
<tr>
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<td>A</td>
<td>839</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
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<td>MLY</td>
<td>D</td>
<td>553</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>1</td>
<td>MLY</td>
<td>D</td>
<td>768</td>
<td></td>
<td></td>
<td>X</td>
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<tr>
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<td>D</td>
<td>782</td>
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<td></td>
<td>X</td>
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Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Chirality</th>
<th>Geometry</th>
<th>Clashes</th>
<th>Electron density</th>
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</thead>
<tbody>
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<td>MLY</td>
<td>D</td>
<td>839</td>
<td>-</td>
<td>-</td>
<td>X</td>
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<tr>
<td>1</td>
<td>MLY</td>
<td>G</td>
<td>553</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
<td>MLY</td>
<td>G</td>
<td>764</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
<td>MLY</td>
<td>G</td>
<td>768</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
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<td>J</td>
<td>553</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
<td>MLY</td>
<td>J</td>
<td>764</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
<td>MLY</td>
<td>J</td>
<td>768</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
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<td>J</td>
<td>84</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
</tbody>
</table>
2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 76872 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 SKELETAL MUSCLE MYOSIN II.

<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>840</td>
<td>Total 6797 C 4382 N 1135 O 1243 S 37</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>840</td>
<td>Total 6797 C 4382 N 1135 O 1243 S 37</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>840</td>
<td>Total 6797 C 4382 N 1135 O 1243 S 37</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>840</td>
<td>Total 6797 C 4382 N 1135 O 1243 S 37</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 2 is a protein called SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN.

<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>2</td>
<td>B</td>
<td>145</td>
<td>Total 1127 C 717 N 177 O 227 S 6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>E</td>
<td>145</td>
<td>Total 1127 C 717 N 177 O 227 S 6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>145</td>
<td>Total 1127 C 717 N 177 O 227 S 6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>K</td>
<td>145</td>
<td>Total 1127 C 717 N 177 O 227 S 6</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 3 is a protein called SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>C</td>
<td>147</td>
<td>Total 1123 C 698 N 188 O 230 S 7</td>
<td>0</td>
<td>0</td>
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<tr>
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<td>F</td>
<td>147</td>
<td>Total 1123 C 698 N 188 O 230 S 7</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>I</td>
<td>147</td>
<td>Total 1123 C 698 N 188 O 230 S 7</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>L</td>
<td>147</td>
<td>Total 1123 C 698 N 188 O 230 S 7</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
- Molecule 4 is a protein called SKELETAL MUSCLE ACTIN.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
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</thead>
<tbody>
<tr>
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<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
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<tr>
<td>4</td>
<td>4</td>
<td>372</td>
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</tr>
<tr>
<td>4</td>
<td>5</td>
<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
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<tr>
<td>4</td>
<td>6</td>
<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>9</td>
<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>V</td>
<td>372</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>4</td>
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<td>0</td>
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<tr>
<td>4</td>
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<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>Y</td>
<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
</tr>
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<td>4</td>
<td>Z</td>
<td>372</td>
<td>Total C N O S 2906 1836 489 561 20</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
3  Residue-property plots

These plots are drawn for all protein, RNA and DNA 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. 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. 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: SKELETAL MUSCLE MYOSIN II
- Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain D:

- Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain G:
- Molecule 1: SKELETAL MUSCLE MYOSIN II
- **Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN**

**Chain B:**

<table>
<thead>
<tr>
<th>1A09</th>
<th>1B09</th>
<th>1C09</th>
<th>1D09</th>
<th>1E09</th>
<th>1F09</th>
<th>1G09</th>
<th>1H09</th>
<th>1I09</th>
<th>1J09</th>
<th>1K09</th>
<th>1L09</th>
<th>1M09</th>
<th>1N09</th>
<th>1O09</th>
<th>1P09</th>
<th>1Q09</th>
<th>1R09</th>
<th>1S09</th>
<th>1T09</th>
<th>1U09</th>
<th>1V09</th>
<th>1W09</th>
<th>1X09</th>
<th>1Y09</th>
<th>1Z09</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A0A</td>
<td>1B0A</td>
<td>1C0A</td>
<td>1D0A</td>
<td>1E0A</td>
<td>1F0A</td>
<td>1G0A</td>
<td>1H0A</td>
<td>1I0A</td>
<td>1J0A</td>
<td>1K0A</td>
<td>1L0A</td>
<td>1M0A</td>
<td>1N0A</td>
<td>1O0A</td>
<td>1P0A</td>
<td>1Q0A</td>
<td>1R0A</td>
<td>1S0A</td>
<td>1T0A</td>
<td>1U0A</td>
<td>1V0A</td>
<td>1W0A</td>
<td>1X0A</td>
<td>1Y0A</td>
<td>1Z0A</td>
</tr>
</tbody>
</table>

- **Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN**

**Chain E:**

<table>
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<tr>
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<th>2B09</th>
<th>2C09</th>
<th>2D09</th>
<th>2E09</th>
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<th>2J09</th>
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<th>2L09</th>
<th>2M09</th>
<th>2N09</th>
<th>2O09</th>
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<th>2V09</th>
<th>2W09</th>
<th>2X09</th>
<th>2Y09</th>
<th>2Z09</th>
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</thead>
<tbody>
<tr>
<td>2A0A</td>
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<td>2C0A</td>
<td>2D0A</td>
<td>2E0A</td>
<td>2F0A</td>
<td>2G0A</td>
<td>2H0A</td>
<td>2I0A</td>
<td>2J0A</td>
<td>2K0A</td>
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<td>2O0A</td>
<td>2P0A</td>
<td>2Q0A</td>
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<td>2V0A</td>
<td>2W0A</td>
<td>2X0A</td>
<td>2Y0A</td>
<td>2Z0A</td>
</tr>
</tbody>
</table>

- **Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN**

- **Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN**

- **Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN**
- Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN
**Molecule 4: SKELETAL MUSCLE ACTIN**

### Chain 0:

```

```

### Chain 1:

```

```

### Chain 2:

```

```
• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 3:

• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 4:

• Molecule 4: SKELETAL MUSCLE ACTIN
• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 9:

• Molecule 4: SKELETAL MUSCLE ACTIN

Chain V:
Molecule 4: SKELETAL MUSCLE ACTIN

Chain W:

Chain X:

Chain Y:

Molecule 4: SKELETAL MUSCLE ACTIN
4 Experimental information

<table>
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<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
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<td>Reconstruction method</td>
<td>TOMOGRAPHY</td>
<td>Depositor</td>
</tr>
<tr>
<td>Imposed symmetry</td>
<td>POINT, C1</td>
<td>Depositor</td>
</tr>
<tr>
<td>Number of tilted images used</td>
<td>Not provided</td>
<td>Depositor</td>
</tr>
<tr>
<td>Resolution determination method</td>
<td>Not provided</td>
<td>Depositor</td>
</tr>
<tr>
<td>CTF correction method</td>
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<td>Depositor</td>
</tr>
<tr>
<td>Microscope</td>
<td>FEI/PHILIPS EM400</td>
<td>Depositor</td>
</tr>
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</tr>
<tr>
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<td>Depositor</td>
</tr>
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<td>Magnification</td>
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<tr>
<td>Image detector</td>
<td>KODAK SO-163 FILM</td>
<td>Depositor</td>
</tr>
</tbody>
</table>
5 Model quality

5.1 Standard geometry

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

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).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
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<tr>
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<td></td>
<td>RMSZ</td>
<td>#</td>
</tr>
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<td>A</td>
<td>1.77</td>
<td>65/6448 (1.0%)</td>
</tr>
<tr>
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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.

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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 51.

All (7716) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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2:B:127:ARG:CA | 2:D:761:GLY:CA | 1.96 | 1.14
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1:D:736:GLN:N | 1:D:743:ALA:CB | 2.05 | 1.14
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1:D:831:TRP:CE3 | 2:E:34:ILE:CG2 | 2.31 | 1.13
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## Interatomic distance (Å) and Clash overlap (Å)

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### Interatomic distances and clash overlap

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1: A: 214: MET: C | 1: A: 340: ILE: CD1 | 2.82 | 0.47
2: B: 139: ALA: C | 2: B: 141: PRO: HD3 | 2.33 | 0.47
1: D: 715: VAL: HG11 | 1: D: 720: PHE: CD1 | 2.49 | 0.47
1: D: 765: VAL: CG1 | 1: D: 766: PHE: N | 2.77 | 0.47
2: E: 130: PRO: O | 2: E: 131: GLU: C | 2.52 | 0.47
1: G: 122: PHE: CE2 | 1: G: 700: VAL: HA | 2.50 | 0.47
1: G: 154: HIS: CE1 | 1: G: 156: PHE: CE2 | 3.02 | 0.47
1: G: 795: ARG: HB2 | 3: I: 35: ARG: CZ | 2.44 | 0.47
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4: W: 325: MET: SD | 4: Y: 244: ASP: OD2 | 2.73 | 0.47
4: 2: 162: ASN: OD1 | 4: 2: 277: THR: HG22 | 2.15 | 0.47
1: A: 564: ASN: HD22 | 1: A: 582: VAL: HB | 1.79 | 0.47
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1: D: 499: GLU: OE1 | 1: D: 499: GLU: HA | 2.13 | 0.47
1: D: 636: LYS: O | 4: 9: 144: ALA: HB1 | 2.14 | 0.47
1: D: 642: LYS: HB2 | 4: 9: 24: ASP: O | 1.88 | 0.47
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1: G: 819: ASN: CB | 2: H: 92: ASP: HB2 | 2.41 | 0.47
1: J: 154: HIS: CE1 | 1: J: 156: PHE: CE2 | 3.02 | 0.47
1: J: 406: VAL: CG1 | 1: J: 407: GLY: N | 2.77 | 0.47
1: J: 554: LEU: HA | 1: J: 554: LEU: HD12 | 1.77 | 0.47
1: G: 542: PHE: CD2 | 4: V: 143: TYR: CD1 | 3.03 | 0.47
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## Interatomic distance and clash overlap

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### Table: Atom-1 vs Atom-2 Interatomic Distance and Clash Overlap

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### Interatomic Distance and Clash Overlap

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### Interatomic distances and clash overlap

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### Interatomic distance (Å)

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### Interatomic Distance and Clash Overlap Report

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## 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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<td>650 (82%)</td>
<td>113 (14%)</td>
<td>26 (3%)</td>
<td>4</td>
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<tr>
<td>1</td>
<td>D</td>
<td>789/840 (94%)</td>
<td>650 (82%)</td>
<td>113 (14%)</td>
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<td>652 (82%)</td>
<td>112 (14%)</td>
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<td>B</td>
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<td>126 (88%)</td>
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<td>2  24</td>
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<td>E</td>
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<td>126 (88%)</td>
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<td>K</td>
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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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5.3.3 RNA

There are no RNA molecules in this entry.

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

180 non-standard protein/DNA/RNA residues 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).

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There are no torsion outliers.

There are no ring outliers.

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5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

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