



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 3, 2023 – 03:33 AM EDT

PDB ID : 6OAM
Title : Crystal Structure of ChlaDUB2 DUB domain
Authors : Hausman, J.M.; Das, C.
Deposited on : 2019-03-17
Resolution : 2.50 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : **FAILED**
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : **FAILED**
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) : 2.35.1

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 Å.

There are no overall percentile quality scores available for this entry.

MolProbity and EDS failed to run properly - the sequence quality summary graphics cannot be shown.

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 5019 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Deubiquitinase and deneddylase Dub2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 1 | A | 239 | 1908 | 1206 | 318 | 361 | 23 | 49 | 0 | 0 |
| 1 | B | 239 | 1909 | 1209 | 317 | 361 | 22 | 23 | 0 | 0 |

There are 8 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------|------------|
| A | 89 | GLY | LEU | conflict | UNP B0B999 |
| A | 90 | ARG | PRO | conflict | UNP B0B999 |
| A | 91 | LEU | ILE | conflict | UNP B0B999 |
| A | 92 | GLU | TRP | conflict | UNP B0B999 |
| B | 89 | GLY | LEU | conflict | UNP B0B999 |
| B | 90 | ARG | PRO | conflict | UNP B0B999 |
| B | 91 | LEU | ILE | conflict | UNP B0B999 |
| B | 92 | GLU | TRP | conflict | UNP B0B999 |

- Molecule 2 is a protein called Ubiquitin.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 2 | D | 76 | 601 | 379 | 105 | 116 | 1 | 18 | 0 | 0 |
| 2 | C | 76 | 601 | 379 | 105 | 116 | 1 | 7 | 0 | 0 |

There are 2 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------|------------|
| D | 76 | AYE | - | amidation | UNP J3QS39 |
| C | 76 | AYE | - | amidation | UNP J3QS39 |

MolProbity and EDS failed to run properly - this section is therefore empty.

3 Data and refinement statistics i

EDS failed to run properly - this section is therefore incomplete.

| Property | Value | Source |
|--|---|-----------|
| Space group | P 43 | Depositor |
| Cell constants a, b, c, α , β , γ | 108.69Å 108.69Å 62.28Å 90.00° 90.00° 90.00° | Depositor |
| Resolution (Å) | 48.61 – 2.50 | Depositor |
| % Data completeness (in resolution range) | 99.8 (48.61-2.50) | Depositor |
| R_{merge} | 0.07 | Depositor |
| R_{sym} | (Not available) | Depositor |
| $\langle I/\sigma(I) \rangle$ ¹ | 4.51 (at 2.51Å) | Xtrriage |
| Refinement program | PHENIX (1.10.1_2155) | Depositor |
| R, R_{free} | 0.283 , 0.306 | Depositor |
| Wilson B-factor (Å ²) | 61.4 | Xtrriage |
| Anisotropy | 0.028 | Xtrriage |
| L-test for twinning ² | $\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$ | Xtrriage |
| Estimated twinning fraction | 0.179 for h,-k,-l | Xtrriage |
| Total number of atoms | 5019 | wwPDB-VP |
| Average B, all atoms (Å ²) | 75.0 | wwPDB-VP |

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.90% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

4 Model quality [i](#)

4.1 Standard geometry [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

4.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

4.6 Ligand geometry [i](#)

There are no ligands in this entry.

4.7 Other polymers [i](#)

There are no such residues in this entry.

4.8 Polymer linkage issues

There are no chain breaks in this entry.

5 Fit of model and data [i](#)

5.1 Protein, DNA and RNA chains [i](#)

EDS failed to run properly - this section is therefore empty.

5.2 Non-standard residues in protein, DNA, RNA chains [i](#)

EDS failed to run properly - this section is therefore empty.

5.3 Carbohydrates [i](#)

EDS failed to run properly - this section is therefore empty.

5.4 Ligands [i](#)

EDS failed to run properly - this section is therefore empty.

5.5 Other polymers [i](#)

EDS failed to run properly - this section is therefore empty.