



Full wwPDB EM Validation Report ⓘ

Feb 25, 2024 – 11:22 AM EST

EMDB ID : EMD-21995
Title : 1.8 Angstrom resolution structure of b-galactosidase with a 200 kV cryoARM electron microscope
Authors : Merk, A.; Fukumura, T.
Deposited on : 2020-05-19
Resolution : 1.80 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/EMMapValidationReportHelp>

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:

EMDB validation analysis : **FAILED**
Validation Pipeline (wwPDB-VP) : 2.36

1 Experimental information

| Property | Value | Source |
|--------------------------------------|---------------------|-----------|
| EM reconstruction method | SINGLE PARTICLE | Depositor |
| Imposed symmetry | POINT, D2 | Depositor |
| Number of particles used | 257202 | Depositor |
| Resolution determination method | FSC 0.143 CUT-OFF | Depositor |
| CTF correction method | Not provided | |
| Microscope | JEOL CRYO ARM 200 | Depositor |
| Voltage (kV) | 200 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 40.0 | Depositor |
| Minimum defocus (nm) | -0.8 | Depositor |
| Maximum defocus (nm) | -0.9500000000000001 | Depositor |
| Magnification | Not provided | |
| Image detector | GATAN K3 (6k x 4k) | Depositor |