



Full wwPDB EM Validation Report ⓘ

Mar 12, 2025 – 01:28 am GMT

EMDB ID : EMD-51000
Title : Circularly permuted lumazine synthase twisted tube with 18 Angstrom gap
between double strands
Authors : Koziej, L.; Azuma, Y.
Deposited on : 2024-07-12
Resolution : 2.85 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) : 2.41

1 Experimental information

| Property | Value | Source |
|--------------------------------------|---|-----------|
| EM reconstruction method | HELICAL | Depositor |
| Imposed symmetry | HELICAL, twist=57.3°, rise=22.1 Å, axial sym=C1 | Depositor |
| Number of segments used | 807640 | Depositor |
| Resolution determination method | FSC 0.143 CUT-OFF | Depositor |
| CTF correction method | Not provided | |
| Microscope | TFS KRIOS | Depositor |
| Voltage (kV) | 300 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 42.44 | Depositor |
| Minimum defocus (nm) | 0.9 | Depositor |
| Maximum defocus (nm) | 1.5 | Depositor |
| Magnification | 105000.0 | Depositor |
| Image detector | GATAN K3 BIOQUANTUM (6k x 4k) | Depositor |