



Full wwPDB EM Validation Report ⓘ

Mar 12, 2025 – 12:47 am GMT

EMDB ID : EMD-51001
Title : Circularly permuted lumazine synthase twisted tube with 28 Angstrom gap
between double strands
Authors : Koziej, L.; Azuma, Y.
Deposited on : 2024-07-12
Resolution : 3.10 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/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=57.0°, rise=24.5 Å, axial sym=C1	Depositor
Number of segments used	192310	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