



wwPDB EM Validation Summary Report ⓘ

Mar 12, 2025 – 01:36 am GMT

EMDB ID : EMD-51003
Title : Circularly permuted lumazine synthase triple-stranded straight tube
Authors : Koziej, L.; Azuma, Y.
Deposited on : 2024-07-12
Resolution : 3.09 Å(reported)

This is a wwPDB EM Validation Summary 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=81.6°, rise=64.4 Å, axial sym=C1	Depositor
Number of segments used	168323	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 ($e^-/\text{\AA}^2$)	40.0	Depositor
Minimum defocus (nm)	0.9	Depositor
Maximum defocus (nm)	3.0	Depositor
Magnification	81000.0	Depositor
Image detector	GATAN K3 BIOCONTINUUM (6k x 4k)	Depositor