



wwPDB EM Validation Summary Report ⓘ

Mar 13, 2025 – 06:14 pm GMT

EMDB ID : EMD-53086
Title : Nuclear ring structure of the NPC of CEM cells
Authors : Hou, Z.; Zhang, P.; Shen, Y.; Fronik, S.; Shen, J.; Shi, J.; Xu, J.; Chen, L.;
Hardenbrook, N.; Thompson, C.; Neumann, S.; Engelman, A.; Aiken, C.
Deposited on : 2025-03-10
Resolution : 36.50 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	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	1121	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 ($e^-/\text{\AA}^2$)	2.5	Depositor
Minimum defocus (nm)	2.7	Depositor
Maximum defocus (nm)	5.5	Depositor
Magnification	64000.0	Depositor
Image detector	TFS FALCON 4i (4k x 4k)	Depositor