



## wwPDB EM Map Validation Summary Report ⓘ

Dec 9, 2020 – 01:48 pm GMT

EMDB ID : EMD-9385  
Title : The central pair complex of sea urchin (*Strongylocentrotus purpuratus*) sperm resolved by cryo-electron tomography and sub-tomogram averaging  
Authors : , Carbajal-Gonzalez.BI.; , Heuser.T.; , Fu.X.; , Lin.J.; , Smith.BW.; , Mitchell.DR.; , Fu.G.; , Nicastro.D.  
Deposited on : 2019-01-02  
Resolution : 35.00 Å(reported)

This is a wwPDB EM Map Validation Summary Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto: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.

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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) : 2.13

# 1 Experimental information

Property	Value	Source
EM reconstruction method	subtomogramAveraging	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of images used	2167	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	1.5	Depositor
Minimum defocus (nm)	6.0	Depositor
Maximum defocus (nm)	8.0	Depositor
Magnification	13500.	Depositor
Image detector	GATAN ULTRASCAN 1000 (2k x 2k)	Depositor