



## Full wwPDB EM Map Validation Report ⓘ

Dec 9, 2020 – 12:06 pm GMT

EMDB ID : EMD-20634  
Title : Composite cryo-EM density map of protofilaments A07-A08 of the 48-nm repeat doublet microtubule (extended lattice)  
Authors : , Ma.M.; , Stoyanova.M.; , Rademacher.G.; , Dutcher.SK.; , Brown.A.; , Zhang.R.  
Deposited on : 2019-08-22  
Resolution : 3.45 Å(reported)

This is a Full wwPDB EM Map Validation 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	singleParticle	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of images used	98000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	CTF parameters were estimated using Gctf and corrected during 3D reconstruction within RELION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	38.9	Depositor
Minimum defocus (nm)	1.0	Depositor
Maximum defocus (nm)	3.1	Depositor
Magnification	81000.0	Depositor
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor