



## wwPDB EM Map Validation Summary Report ⓘ

Dec 9, 2020 – 12:44 pm GMT

EMDB ID : EMD-5899  
Title : Cryo EM density of microtubules bound to GDP, no kinesin  
Authors : , Alushin.GM.; , Lander.GC.; , Kellogg.EH.; , Zhang.R.; , Baker.D.; , Nogales.E.  
Deposited on : 2014-02-09  
Resolution : 6.30 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	singleParticle	Depositor
Imposed symmetry	HELICAL, twist=25.75°, rise=8.82 Å, axial sym=C1	Depositor
Number of images used	15390	Depositor
Resolution determination method	OTHER	Depositor
CTF correction method	ctftilt	Depositor
Microscope	FEI TITAN	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{Å}^2$ )	25.0	Depositor
Minimum defocus (nm)	1.4	Depositor
Maximum defocus (nm)	3.5	Depositor
Magnification	72000.0	Depositor
Image detector	KODAK SO-163 FILM	Depositor