



## Full wwPDB EM Map Validation Report ⓘ

Dec 9, 2020 – 12:45 pm GMT

EMDB ID : EMD-5377  
Title : Direct electron detection yields cryo-EM reconstructions at resolutions beyond .75 Nyquist frequency  
Authors : , Bammes.BE.; , Rochat.RH.; , Jakana.J.; , Chen.D.; , Chiu.W.  
Deposited on : 2012-01-03  
Resolution : 7.90 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	Not Provided	Depositor
Number of images used	1380	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Each Micrograph	Depositor
Microscope	JEOL 3200FSC	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	20	Depositor
Minimum defocus (nm)	0.6	Depositor
Maximum defocus (nm)	3.0	Depositor
Magnification	20800.0	Depositor
Image detector	DIRECT ELECTRON DE-12 (4k x 3k)	Depositor