



# wwPDB EM Map Validation Summary Report ⓘ

Dec 9, 2020 – 12:43 pm GMT

EMDB ID : EMD-5858  
Title : Structures of Cas9 endonucleases reveal RNA-mediated conformational activation  
Authors : , Jinek.M.; , Jiang.F.; , Taylor.DW.; , Sternberg.SH.; , Kaya.E.; , Ma.E.; , Anders.C.; , Hauer.M.; , Zhou.K.; , Lin.S.; , Kaplan.M.; , Iavarone.AT.; , Charpentier.E.; , Nogales.E.; , Doudna.JA.  
Deposited on : 2014-01-13  
Resolution : 19.00 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	singleParticle	Depositor
Imposed symmetry	Not Provided	Depositor
Number of images used	18000	Depositor
Resolution determination method	OTHER	Depositor
CTF correction method	whole micrograph	Depositor
Microscope	FEI TECNAI 20	Depositor
Voltage (kV)	120	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	20	Depositor
Minimum defocus (nm)	-0.5	Depositor
Maximum defocus (nm)	-1.5	Depositor
Magnification	100000.0	Depositor
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor