



## Full wwPDB EM Map Validation Report ⓘ

Dec 9, 2020 – 11:23 am GMT

EMDB ID : EMD-22147  
Title : Negative stain EM map of SARS-COV-2 spike protein closed RBD (trimer)  
with Fab COV2-2096  
Authors : , Binshtein.E.; , Crowe.JE.  
Deposited on : 2020-06-13  
Resolution : 20.00 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	8536	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	36.0	Depositor
Minimum defocus (nm)	1.5	Depositor
Maximum defocus (nm)	1.9	Depositor
Magnification	50000.0	Depositor
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor