



## wwPDB EM Map Validation Summary Report ⓘ

Dec 9, 2020 – 11:22 am GMT

EMDB ID : EMD-21975  
Title : Negative stain EM map of SARS-CoV-2 spike protein (trimer) with Fab COV2-2196  
Authors : , Binshtein.E.  
Deposited on : 2020-05-14  
Resolution : 20.00 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                | 2737                           | 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 ( $e^-/\text{\AA}^2$ ) | 25.0                           | 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 |