



wwPDB EM Validation Summary Report ⓘ

Nov 21, 2022 – 01:04 AM EST

EMDB ID : EMD-25853
Title : Cryo-EM structure of SARS-CoV-2 Delta (B.1.617.2) spike protein in complex with human ACE2 (focused refinement of RBD and ACE2)
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Deposited on : 2022-01-06
Resolution : 3.52 Å(reported)

This is a wwPDB EM Validation Summary Report for a publicly released PDB entry.

We welcome your comments at 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.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev43
Validation Pipeline (wwPDB-VP) : 2.31.3

1 Experimental information

| Property | Value | Source |
|--------------------------------------|-------------------------|-----------|
| EM reconstruction method | SINGLE PARTICLE | Depositor |
| Imposed symmetry | Not Provided | |
| Number of particles used | 97827 | Depositor |
| Resolution determination method | FSC 0.143 CUT-OFF | Depositor |
| CTF correction method | Not provided | |
| Microscope | TFS KRIOS | Depositor |
| Voltage (kV) | 300 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 40.0 | Depositor |
| Minimum defocus (nm) | 0.5 | Depositor |
| Maximum defocus (nm) | 3.0 | Depositor |
| Magnification | Not provided | |
| Image detector | FEI FALCON IV (4k x 4k) | Depositor |

2 Map visualisation

This section contains visualisations of the EMDB entry EMD-25853. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

2.1 Orthogonal projections

This section was not generated.

2.2 Central slices

This section was not generated.

2.3 Largest variance slices

This section was not generated.

2.4 Orthogonal surface views

This section was not generated.

2.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

3 Map analysis ⓘ

This section contains the results of statistical analysis of the map.

3.1 Map-value distribution ⓘ

This section was not generated.

3.2 Volume estimate versus contour level ⓘ

This section was not generated.

3.3 Rotationally averaged power spectrum ⓘ

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

4 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.