



Full wwPDB EM Validation Report ⓘ

Jun 23, 2021 – 06:41 AM BST

EMDB ID : EMD-12865
Title : Structure of a human mitochondrial ribosome large subunit assembly intermediate in complex with MTERF4-NSUN4 (dataset1).
Authors : Hillen, H.S.; Lavdovskaia, E.; Nadler, F.; Hanitsch, E.; Linden, A.; Bohnsack, K.E.; Urlaub, H.; Richter-Dennerlein, R.
Deposited on : 2021-05-04
Resolution : 2.20 Å(reported)

This is a Full wwPDB EM Validation 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.0.dev75
Validation Pipeline (wwPDB-VP) : 2.20

1 Experimental information

| Property | Value | Source |
|--------------------------------------|-------------------------------|-----------|
| EM reconstruction method | SINGLE PARTICLE | Depositor |
| Imposed symmetry | POINT, C1 | Depositor |
| Number of particles used | 1060638 | Depositor |
| Resolution determination method | FSC 0.143 CUT-OFF | Depositor |
| CTF correction method | Not provided | |
| Microscope | FEI TITAN KRIOS | Depositor |
| Voltage (kV) | 300 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 36.0 | Depositor |
| Minimum defocus (nm) | 0.3 | Depositor |
| Maximum defocus (nm) | 2.8000000000000003 | Depositor |
| Magnification | 81000.0 | Depositor |
| Image detector | GATAN K3 BIOQUANTUM (6k x 4k) | Depositor |

2 Map visualisation

This section contains visualisations of the EMDB entry EMD-12865. These allow visual inspection of the internal detail of the map and identification of artifacts.

Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

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.