



wwPDB EM Validation Summary 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).
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Deposited on : 2021-05-04
Resolution : 2.20 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 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.