



## Full wwPDB EM Validation Report ⓘ

Apr 16, 2024 – 08:35 am BST

EMDB ID : EMD-14002  
Title : Specific features and methylation sites of a plant ribosome. 40S body ribosomal subunit.  
Authors : Cottilli, P.; Itoh, Y.; Amunts, A.  
Deposited on : 2021-12-16  
Resolution : 2.53 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](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.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev92  
Validation Pipeline (wwPDB-VP) : 2.36

# 1 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	Not Provided	
Number of particles used	335806	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 ( $e^-/\text{\AA}^2$ )	30.2	Depositor
Minimum defocus (nm)	1.0	Depositor
Maximum defocus (nm)	2.8000000000000003	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor

## 2 Map visualisation

This section contains visualisations of the EMDB entry EMD-14002. 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 standard-deviation projections (False-color)

This section was not generated.

### 2.5 Orthogonal surface views

This section was not generated.

### 2.6 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.