



Full wwPDB EM Validation Report ⓘ

Mar 19, 2025 – 04:29 PM EDT

EMDB ID : EMD-47470
Title : Cryo-EM structure of yeast CMG helicase stalled at G4-containing DNA template, state 1
Authors : Allwein, B.; Batra, S.; Remus, D.; Hite, R.
Deposited on : 2024-10-23
Resolution : 3.30 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 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.dev117
Validation Pipeline (wwPDB-VP) : 2.41.4

1 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	66410	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 ($e^-/\text{\AA}^2$)	66.0	Depositor
Minimum defocus (nm)	0.8	Depositor
Maximum defocus (nm)	1.8	Depositor
Magnification	29000.0	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor

2 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47470. 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 [i](#)

This section was not generated.

2.2 Central slices [i](#)

This section was not generated.

2.3 Largest variance slices [i](#)

This section was not generated.

2.4 Orthogonal standard-deviation projections (False-color) [i](#)

This section was not generated.

2.5 Orthogonal surface views [i](#)

This section was not generated.

2.6 Mask visualisation [i](#)

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.