

wwPDB EM Validation Summary Report (i)

Mar 8, 2021 – 01:02 pm GMT

EMDB ID : EMD-12121

Title: Cropped cryo-ET average map of axonemal 96nm-repeat from Tetrahymena

CCDC96-deletion mutant, which shows the structure of the N-DRC and the

absence of the Ccdc113/Ccdc96 complex structure.

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Deposited on : 2020-12-15

Resolution : 34.00 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

 $\begin{array}{ccc} EMDB \ validation \ analysis & : & 0.0.0.dev61 \\ Validation \ Pipeline \ (wwPDB-VP) & : & 2.17.1 \end{array}$

1 Experimental information (i)

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	137	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	
Microscope	FEI TITAN	Depositor
Voltage (kV)	300	Depositor
Electron dose $(e^-/\text{Å}^2)$	100.0	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	240.533	Depositor
Minimum map value	15.402	Depositor
Average map value	117.027	Depositor
Map value standard deviation	26.691	Depositor
Recommended contour level	138.0	Depositor
Map size (Å)	543.62, 564.8, 388.3	wwPDB
Map dimensions	77, 80, 55	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	7.06, 7.06, 7.06	Depositor



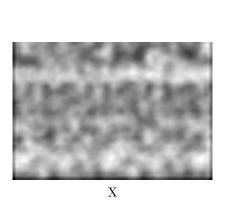
Map visualisation (i) 2

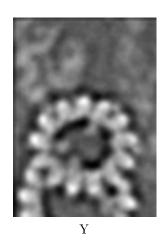
This section contains visualisations of the EMDB entry EMD-12121. These allow visual inspection of the internal detail of the map and identification of artifacts.

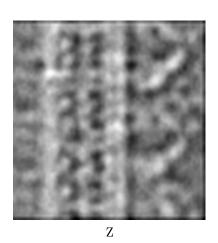
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

Orthogonal projections (i) 2.1

2.1.1Primary map



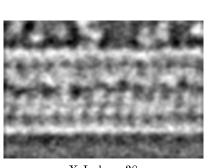




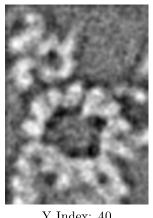
The images above show the map projected in three orthogonal directions.

2.2Central slices (i)

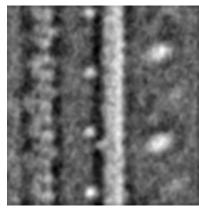
2.2.1Primary map



X Index: 38



Y Index: 40



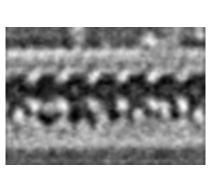
Z Index: 27

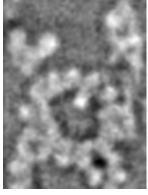


The images above show central slices of the map in three orthogonal directions.

2.3 Largest variance slices (i)

2.3.1 Primary map







X Index: 20

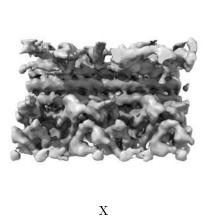
Y Index: 54

Z Index: 18

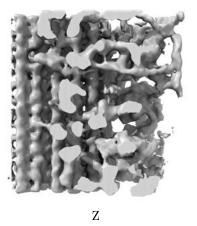
The images above show the largest variance slices of the map in three orthogonal directions.

2.4 Orthogonal surface views (i)

2.4.1 Primary map







The images above show the 3D surface view of the map at the recommended contour level 138.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.



2.5 Mask visualisation (i)

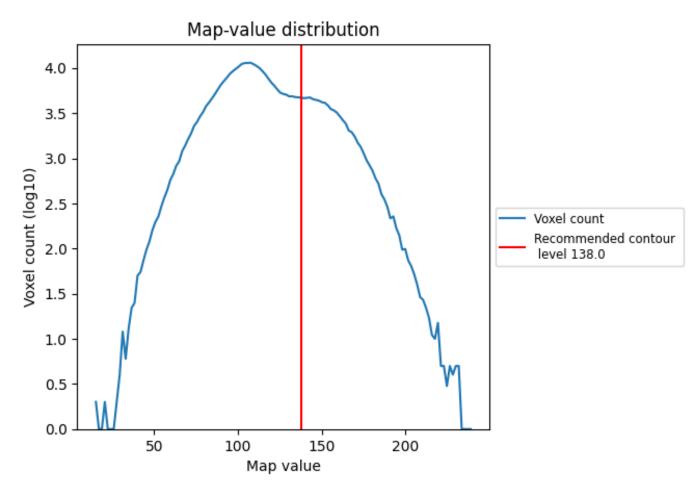
This section was not generated. No masks/segmentation were deposited.



3 Map analysis (i)

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

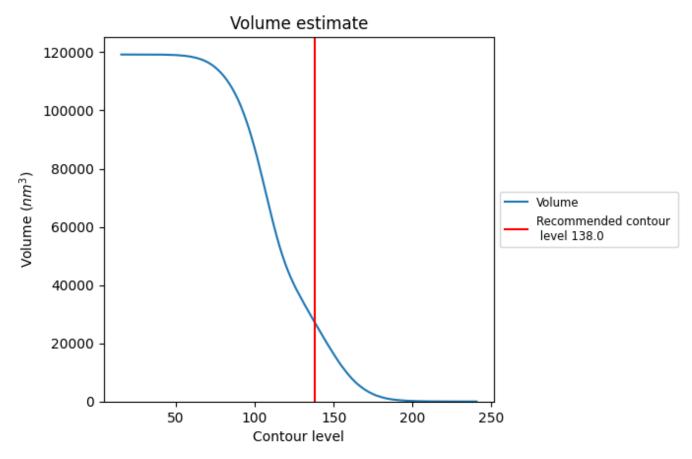
3.1 Map-value distribution (i)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.



3.2 Volume estimate (i)



The volume at the recommended contour level is 27179 nm³; this corresponds to an approximate mass of 24551 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

3.3 Rotationally averaged power spectrum (i)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.



4 Fourier-Shell correlation (i)

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

