

Full wwPDB EM Validation Report (i)

Mar 31, 2021 – 09:51 am BST

EMDB ID : EMD-1341

Title : Three-dimensional structure of a human connexin26 gap junction channel re-

veals a plug in the vestibule.

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Deposited on : 2007-03-12

Resolution : 10.00 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 $\frac{\text{https://www.wwpdb.org/validation/2017/EMMapValidationReportHelp}}{\text{with specific help available everywhere you see the } \widehat{\textbf{i}} \text{ symbol.}$

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

EMDB validation analysis : 0.0.0.dev75

Validation Pipeline (wwPDB-VP) : 2.18

1 Experimental information (i)

Property	Value	Source
EM reconstruction method	CRYSTALLOGRAPHY	Depositor
Imposed symmetry	2D CRYSTAL, $a=112.4$ Å, $b=111.2$ Å,	Depositor
	$c=300.0$ Å, $\gamma=90.0^{\circ}$, space group=Not pro-	
	vided	
Number of images used	Not provided	
Resolution determination method	Not provided	
CTF correction method	Each crystal	Depositor
Microscope	JEOL KYOTO-3000SFF	Depositor
Voltage (kV)	300	Depositor
Electron dose $(e^-/\text{Å}^2)$	25	Depositor
Minimum defocus (nm)	4.7	Depositor
Maximum defocus (nm)	19.4	Depositor
Magnification	59100.0	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	0.434	Depositor
Minimum map value	-0.329	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.061	Depositor
Recommended contour level	0.11	Depositor
Map size (Å)	113.186, 114.407, 302	wwPDB
Map dimensions	57, 57, 151	wwPDB
Map angles (°)	90, 90, 90	wwPDB
Pixel spacing (Å)	1.98571, 2.00714, 2	Depositor



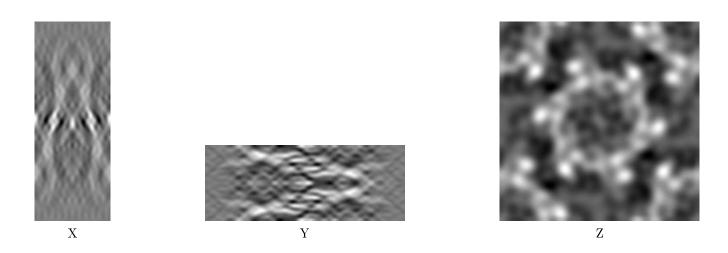
Map visualisation (i) 2

This section contains visualisations of the EMDB entry EMD-1341. 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

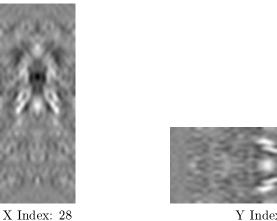
2.1.1Primary map

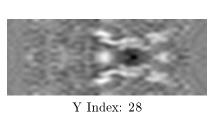


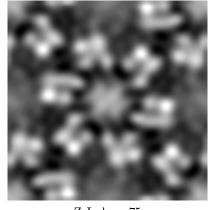
The images above show the map projected in three orthogonal directions.

2.2Central slices (i)

2.2.1Primary map







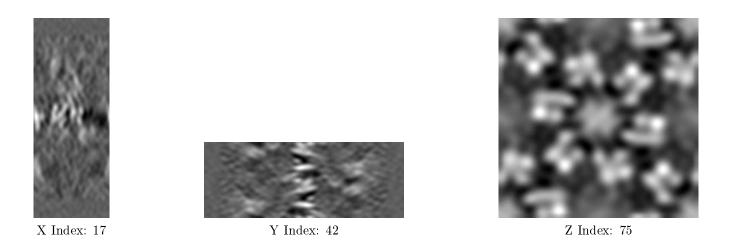




The images above show central slices of the map in three orthogonal directions.

2.3 Largest variance slices (i)

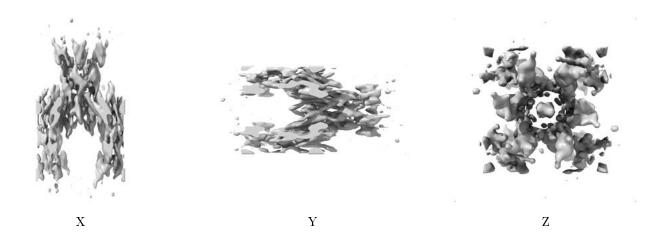
2.3.1 Primary map



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 0.11. 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)

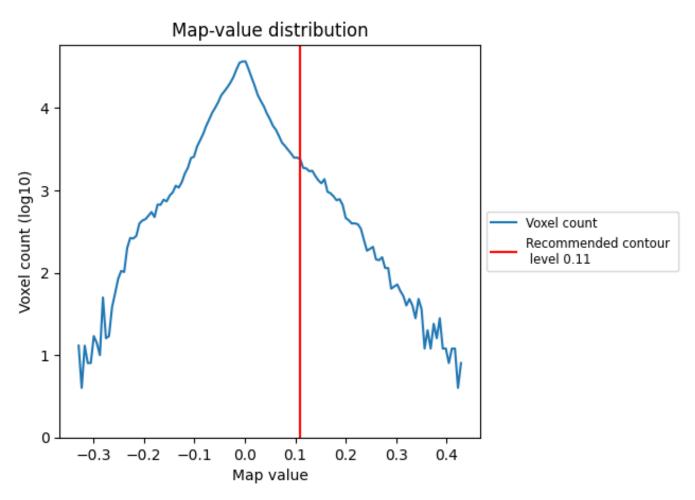
This section was not generated. No masks/segmentation were deposited.



3 Map analysis (i)

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

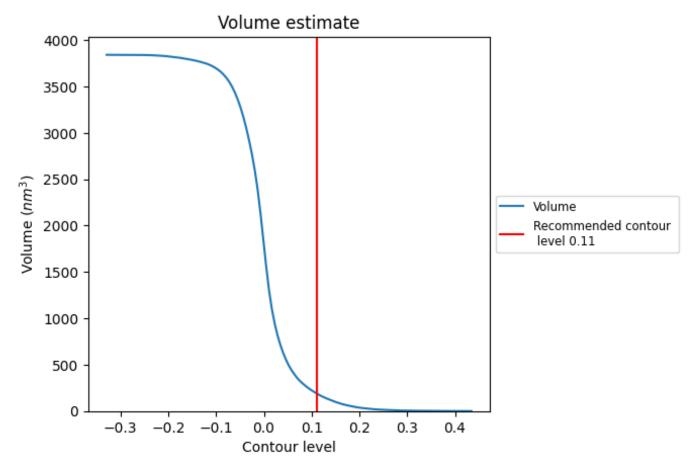
3.1 Map-value distribution (i)



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 192 nm³; this corresponds to an approximate mass of 173 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.

