

Nov 16, 2022 – 05:17 AM EST

EMDB ID Title Authors	Title : CryoEM structure of full-length ZIKV NS5-hSTAT2 complex				
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Deposited on	: 2020-03-31				
Resolution	: 4.00  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				
htt	https://www.wwpdb.org/validation/2017/EMMapValidationReportHelp				
	with specific help available everywhere you see the (i) symbol.				

The types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

EMDB validation analysis : 0.0.1.dev43 Validation Pipeline (wwPDB-VP) : 2.31.2

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

# 1 Experimental information (i)

Property	Value	Source	
EM reconstruction method	SINGLE PARTICLE	Depositor	
Imposed symmetry	POINT, C1	Depositor	
Number of particles used	118760	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 $(e^-/\text{\AA}^2)$	48.0	Depositor	
Minimum defocus (nm)	Not provided		
Maximum defocus (nm)	Not provided		
Magnification	Not provided		
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor	
Maximum map value	0.149	Depositor	
Minimum map value	-0.065	Depositor	
Average map value	0.000	Depositor	
Map value standard deviation	0.005	Depositor	
Recommended contour level	0.025	Depositor	
Map size (Å)	273.92, 273.92, 273.92	wwPDB	
Map dimensions	256, 256, 256	wwPDB	
Map angles $(^{\circ})$	90.0, 90.0, 90.0	wwPDB	
Pixel spacing (Å)	1.07, 1.07, 1.07	Depositor	



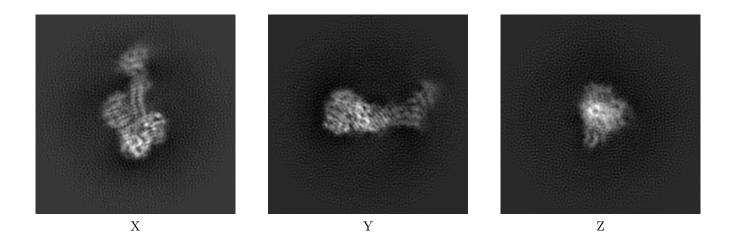
#### Map visualisation (i) $\mathbf{2}$

This section contains visualisations of the EMDB entry EMD-21618. 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

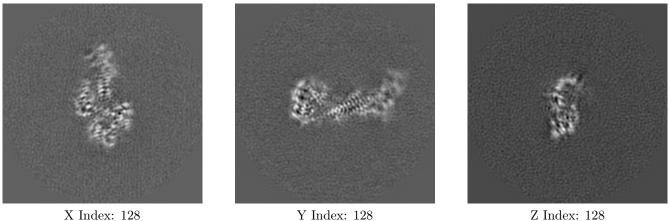
#### 2.1.1Primary map



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

#### 2.2Central slices (i)

#### 2.2.1Primary map



X Index: 128

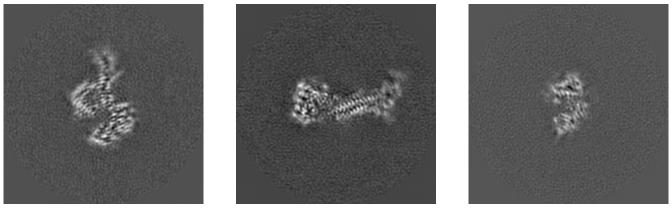
Y Index: 128



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: 121

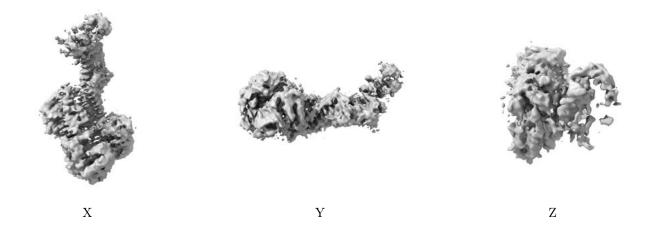
Y Index: 126

Z Index: 115

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 0.025. 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)

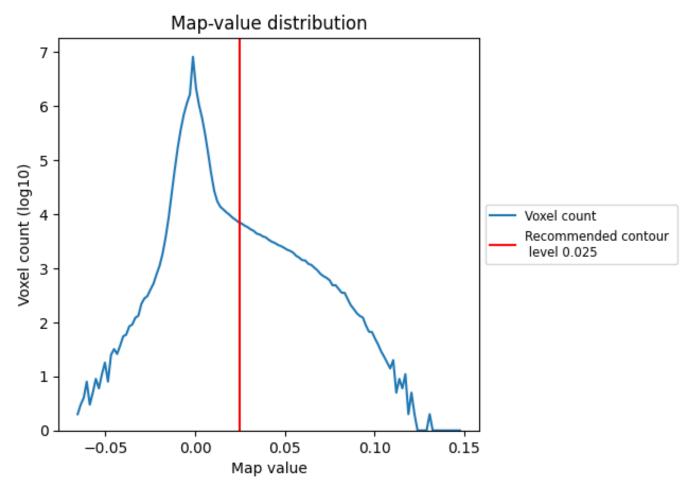
This section was not generated. No masks/segmentation were deposited.



## 3 Map analysis (i)

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

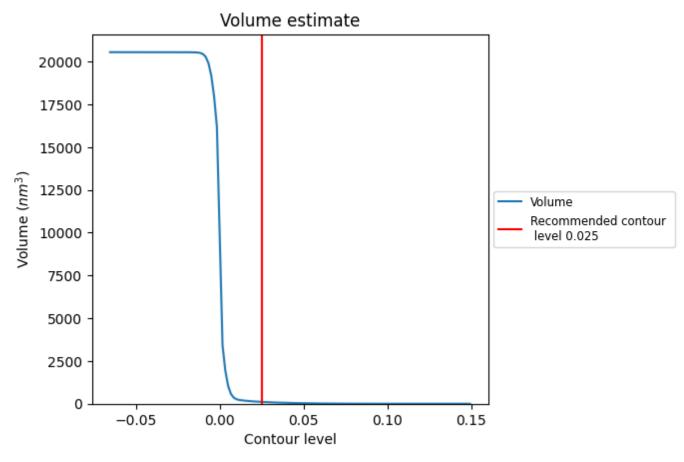
### 3.1 Map-value distribution (i)



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)

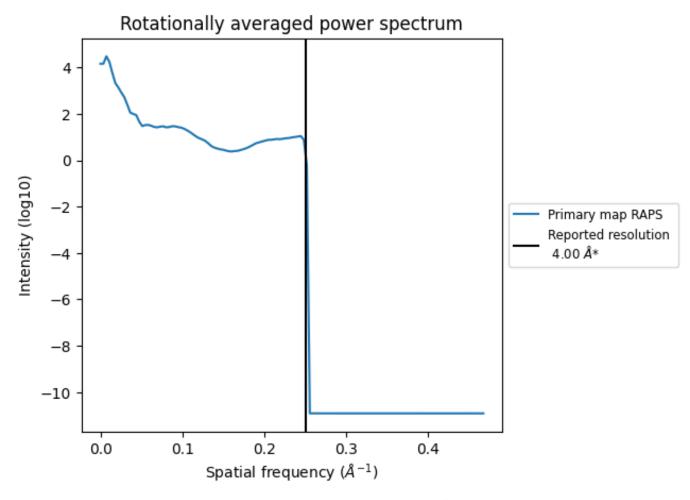


The volume at the recommended contour level is  $109 \text{ nm}^3$ ; this corresponds to an approximate mass of 98 kDa.

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)



\*Reported resolution corresponds to spatial frequency of 0.250  ${\rm \AA^{-1}}$ 



# 4 Fourier-Shell correlation (i)

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

