

Rotavirus VP7 Reconstructed Particle

Below is a stack (15 GB) of 3,786 images (MRC/CCP4 format) of Rotavirus VP7 Reconstructed Particle (VP7/7RP [1]). The images were collected on a FEI Tecnai F30 electron microscope at a magnification of 59,000x and underfocus ranging between 1.2 and 3.5 μm . Alignment parameters determined by Frealign for each particle in the stack can also be found below, as well as a reconstruction of 7RP (also MRC/CCP4 format) and a script to calculate a reconstruction using Frealign.

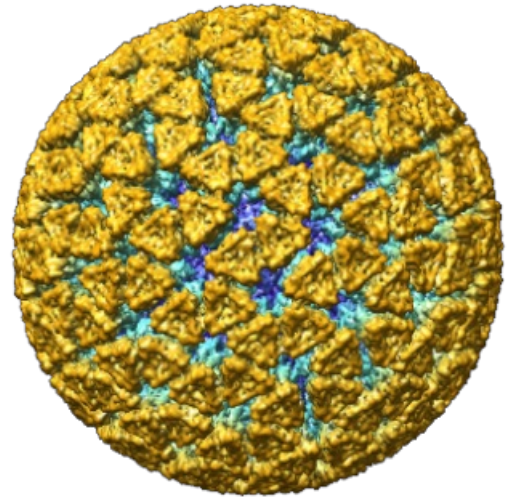
To download the stack, please download all 8 parts below (7RP_stack_aa.part.gz - 7RP_stack_ao.part.gz), unzip, and combine them to a single stack. On a Linux/UNIX system, you can use the attached script to download all parts and restore the stack. After downloading the script, type

```
chmod +x get_7rp_stack.b  
./get_7rp_stack.b &
```

If you download the partial stacks manually use this command to restore the stack:

```
gunzip -c 7rp_stack_* > 7RP_stack.mrc
```





















The file 7RP_stack.mrc will contain the stack with all 3,786 images (the 15 partial stacks can be deleted).



Please download one file at a time or use the supplied scripts to download files sequentially. Attempts to download more than one file at a time will cause a *Service Temporarily Unavailable* message to be displayed.

References

1. Chen, JZ, Settembre EC, Aoki ST, Zhang X, Bellamy AR, Dormitzer PR, Harrison SC, Grigorieff N. 2009. **Molecular interactions in rotavirus assembly and uncoating seen by high-resolution cryo-EM.** Proc Natl Acad Sci U S A. 106:10644-48.

 7rp_67.par - Frealign parameter file	426.25 KB
 7rp_reconstruction_scripts.tar.gz - Frealign 3D reconstruction script	1.33 KB
 13averaging7RP.tar.gz - Scripts, matrices and masks for 13-fold averaging	866.1 KB
 7rp_67.mrc.gz - 3D reconstruction of VP7 recoated particle	443.54 MB
 get_7rp_stack.b - Download script for particle stack	2.57 KB
 7rp_stack_aa.part.gz	513.64 MB
 7rp_stack_ab.part.gz	511.94 MB
 7rp_stack_ac.part.gz	509.95 MB
 7rp_stack_ad.part.gz	511.6 MB
 7rp_stack_ae.part.gz	381.93 MB
 7rp_stack_af.part.gz	370.59 MB
 7rp_stack_ag.part.gz	371.99 MB
 7rp_stack_ah.part.gz	370.47 MB
 7rp_stack_ai.part.gz	375.71 MB
 7rp_stack_aj.part.gz	457.55 MB
 7rp_stack_ak.part.gz	512.53 MB
 7rp_stack_al.part.gz	510.11 MB
 7rp_stack_am.part.gz	510.28 MB
 7rp_stack_an.part.gz	509.07 MB
 7rp_stack_ao.part.gz	52.94 MB