**Supplementary File 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   |   | ANDV GnH:Fabs ANDV-5:ANDV-34\* | MAPV GnH/Gc:Fabs SNV-24:SNV-53\* | ANDV GnH:Fabs ANDV-5/ANDV-34\*\* |
| Data Deposition | EMDB | EMD-26735 | EMD-26736 | EMD-27318 |
| PDB | -- | -- | 8DBZ |
| Microscope setting | Microscope | TF-20 | TF-20 | Glacios |
| Voltage (kV) | 200 | 200 | 200 |
| Detector | US-4000 | US-4000 | Falcon 4 |
| Mag | X50,000 | X50,000 | x190,000 |
| Pixel size | 2.18 | 2.18 | 0.73 |
| Exposure (e-/Å2) | 32 | 32 | 50 |
| Defocus range (μm) | 1.3-1.8 | 1.3-1.8 | 0.8-1.8 |
| Data | # Micrographs | 270 | 330 | 3100 |
| # particles |   |   | 306402 |
| # particle after 2D |   |   | 249853 |
| Final particles # | 44683 | 37800 | 208863 |
| Symmetry | C1 | C1 | C1 |
| Resolution FSC=0.143 | 17 | 22 | 4.1 |
| Model refinement and validation of Fabs\*\* | Protein residues |   |   | 3643 |
| Map CC |   |   | 0.72 |
| RMSD |   |   |   |
|  Bond lengths (A) |   |   | 0.004 |
|  Bond angles |   |   | 0.677 |
| Ramachandran |   |   |   |
|  Outliers (%) |   |   | 0 |
|  Allowed (%) |   |   | 6.24 |
|  Favored (%) |   |   | 93.76 |
| Poor rotamers (%) |   |   | 0 |
| MolProbity score |   |   | 2.38 |
| Clash score |   |   | 30.59 |
|   |   |   |   |
|   |   |   |   |
|   |  |   |   |   |
|   | \*Negative stain data set |   |   |
|   | \*\*The ANDV GnH and the Fabs were docked to the map and rigid body refined |

**Supplementary Table 1. Summary table of electron microscopy statistics.**