Supplemental Materials

**Title:** Morphological and taxonomic properties of the newly isolated *Cotonvirus japonicus*, a new lineage of the subfamily *Megavirinae*

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Supplemental data 1

Supplemental data 2

Supplemental movie 1

Supplemental movie 2
Supplemental data 1
Predicted ORFs of *Cotonvirus japonicus*.

Supplemental data 2
Accession no. of genes, which were used in molecular phylogenetic analyses.

Supplemental movie 1
Time lapse movies used in the kinetic analysis of *A. castellanii* cells infected with mimivirus (*Mimivirus shirakomae*), megavirus (*Megavirus musashi*), and cotonvirus, respectively. In total, 2,160 frames were obtained, each taken every minute for 36 h. The 1 s of this movie is 1 h of real time.

Supplemental movie 2
Tomogram slices and segmentations of the VFs in a cotonvirus-infected amoeba within a 700 nm-thick section. light blue: VFs, Blue: tubular-structures, Orange: the center core of VF.