

Description of Additional Supplementary Files

File name: Supplementary Movie 1

Description: (related to Fig. 5F). CryoET image of ctRetromer-Vps5-Vps17 coated membrane tubules.

File name Supplementary Movie 2

Description: (related to Fig. 5G). Reconstructed tomogram of ctRetromer-Vps5-Vps17 coated tubule shown along the tubule axis.

File name Supplementary Movie 3

Description: (related to Fig. 5G). Reconstructed tomogram of ctRetromer-Vps5-Vps17 coated tubule shown from the side.

File name: Supplementary Movie 4

Description: (related to Fig. 6A). Recruitment of scSNX-BAR-GFP and scRetromer-mRuby on supported membrane tubes in the presence of the inhibitory RT-D3 cyclic peptide.

File name: Supplementary Movie 5

Description: (related to Fig. 6A). Recruitment of scSNX-BAR-GFP and scRetromer-mRuby on supported membrane tubes in the presence of the control RT-D3 scrambled cyclic peptide.

File name: Supplementary Movie 6

Description: (related to Fig. 6F). Supported membrane tubes with 100 nM scSNX-BARs and 300 μ M of the cyclic peptide RT-D3 or RT-D3 scrambled.

File name: Supplementary Movie 7

Description: (related to Fig. S13A). Supported membrane tubes with 25 nM scRetroer-mClover and 25 nM scVps17 – scVps5 wild-type.

File name: Supplementary Movie 8

Description: (related to Fig. S13A). Supported membrane tubes with 25 nM scRetroer-mClover and 25 nM scVps17 – scVps5 quadruple mutant.