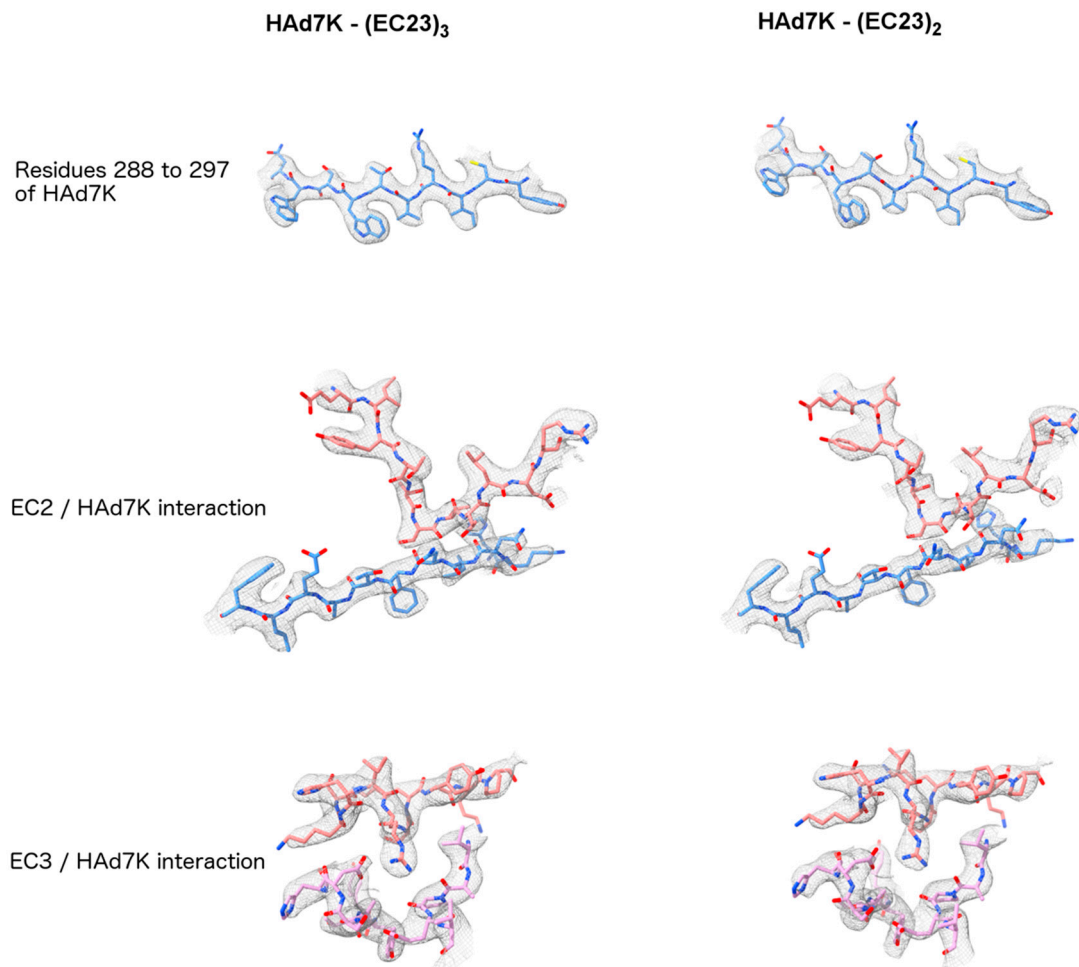


**Figure S1:** Cryo-EM micrograph, reconstruction and FSC calculation **(a):** Cryo-EM micrograph of HAd7K/EC23. **(b):** 2D class averages of HAd7K/EC23. **(c, e):** Isosurface representations of the cryo-EM 3D reconstructions of HAd7K-(EC23)<sub>3</sub> **(c)** and HAd7K-(EC23)<sub>2</sub> **(e)** colored by monomer. **(d, f):** Fourier Shell Correlation (FSC) curves for HAd7K-(EC23)<sub>3</sub> **(d)** and HAd7K-(EC23)<sub>2</sub> **(f)**.



**Figure S2:** Zoomed views of the 3D reconstructions. Views on 3 different areas of HAd7K-(EC23)<sub>3</sub> (left column) and HAd7K-(EC23)<sub>2</sub> (right column). The cryo-EM density is represented in light grey. First row focuses on one  $\beta$  strand in HAd7K, second row on the interaction between EC2 (salmon) and HAd7K (blue) and third row on the interaction between EC3 (salmon) and HAd7K (pink).

**Table S1.** Summary of data collection and atomic model statistics

Data collection		
Microscope	Krios G3 (ThermoFischer Scientific)	
Voltage (kV)	300	
Magnification	215,000x	
Unbinned pixel size	0.325 Å/pixel	
Camera	K2 Summit (Gatan Inc)	
Exposure time	3s	
Number of frames	30	
Total dose (e <sup>-</sup> /Å <sup>2</sup> )	35	
Image processing		
	Had7k-(EC23) <sub>2</sub>	Had7k-(EC23) <sub>3</sub>
EMDB		
Symmetry	C1	C3
Final number of Particles	97,190	58,219
Map resolution in Å (FSC 0.143)	3.3	3.1
Model statistics		
PDB		
Model resolution in Å (FSC 0.5)	3.7	3.4

Ramachandran favored (%)	95.8	96.0
Ramachandran outliers (%)	0.2	0.8
Rotamer outliers (%)	0	0
C-beta deviations	0	0
Rms on bond lengths	0.0072	0.0063
Rms on bond angles	0.78	0.88
Clashscore	6.95	5.29
Molprobit score	1.67	1.56