



Supplementary information, Fig. S4: Structural determination of the IFT-A–TULP3 complex.

a, Low-resolution map of the IFT-A–TULP3 complex. IFT-A and TULP3 are colored in cyan and purple, respectively. **b**, A simplified flowchart of the data process protocol of the IFT-A–TULP3 complex without IFT139. Focused refinement was performed for two sub-volumes. Sub-volume 1 contains the TULP3, IFT144, IFT140 and part of the IFT122 subunits and sub-volume 2 contains most of the IFT121 and IFT122 subunits. Local resolutions are calculated and shown. **c-d**, The composite map and atomic model of the IFT-A–TULP3 complex without IFT139. IFT43 is not resolved. **e**, the FSC curve between the model (**d**) and composite map (**c**).