

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: Mass spectrometry Reporting of proteins in P5 sample, with radial spoke and microtubule proteins highlighted

File name: Supplementary Movie 1

Description: Overview of Tv-MIPs. Cross sectional view down the *Tv*-DMT with MIP and MOP densities colored. Model view of all modeled MIPs rotated to show detail and models of *Tv*FAP35 and *Tv*FAP40 in cyan and magenta respectively.

File name: Supplementary Movie 2

Description: TvFAP40 ligand binding pocket. View flying into putative ligand binding site of *Tv*FAP40. Rotations around the ligand binding site with and without the cryo-EM density.