

Preliminary results:

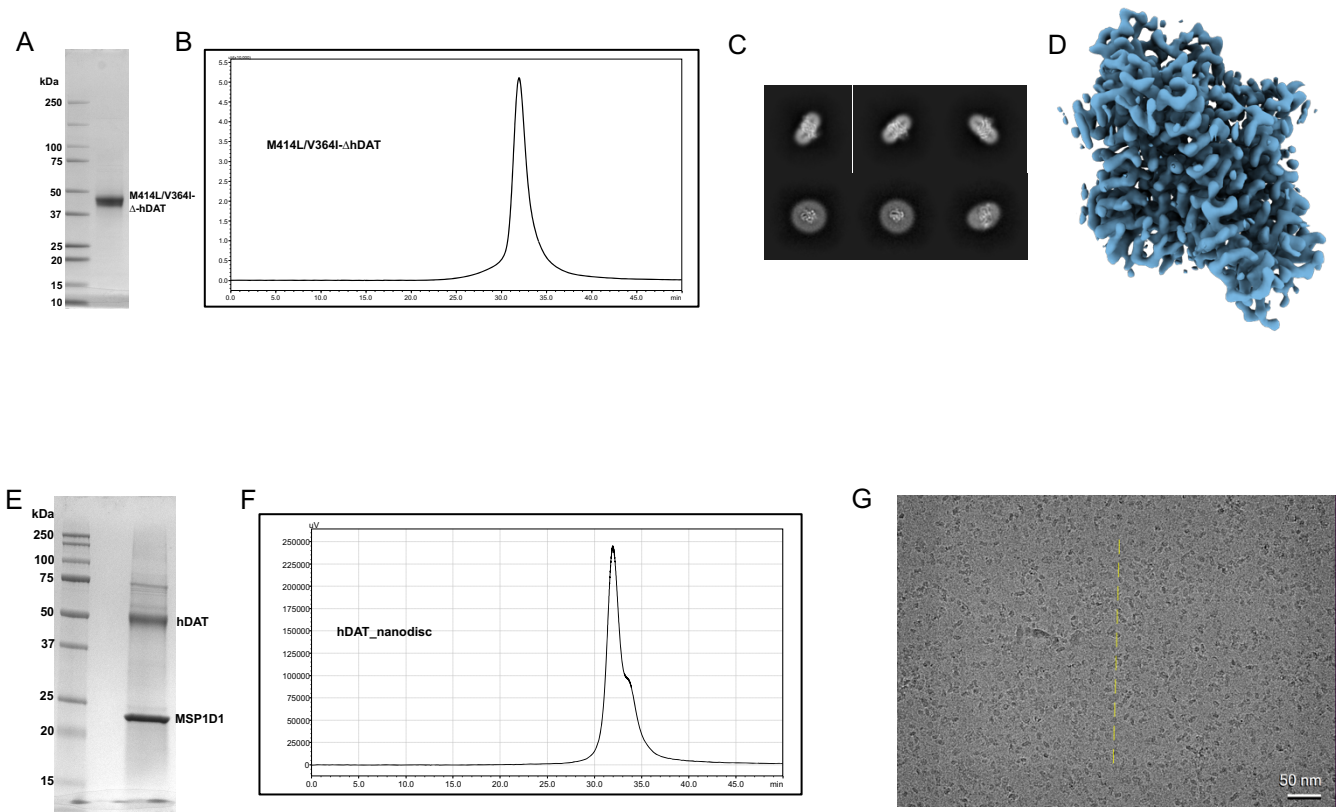


Figure 1. Sample preparation and preliminary cryo-EM analysis. (A) SDS-PAGE analysis of purified M414L/V364I double mutant in hDAT. (B) Fluorescence-size exclusion chromatography (FSEC) by monitoring tryptophan fluorescence of the same sample. (C) Representative 2D classes and (D) cryo-EM reconstruction of the M414L/V364I- β -CFT-MRS7292 complex with 89,848 particles and a GSFSC resolution of 2.95 Å. (E) SDS-PAGE analysis of hDAT in MSP1D1 nanodisc in complex with β -CFT and compound 390' and (F) FSEC analysis. (G) Representative cryo-EM screening micrograph of the hDAT nanodisc sample prepared using 1.2/1.3 Au 200 mesh holey carbon grids.