Supplement:

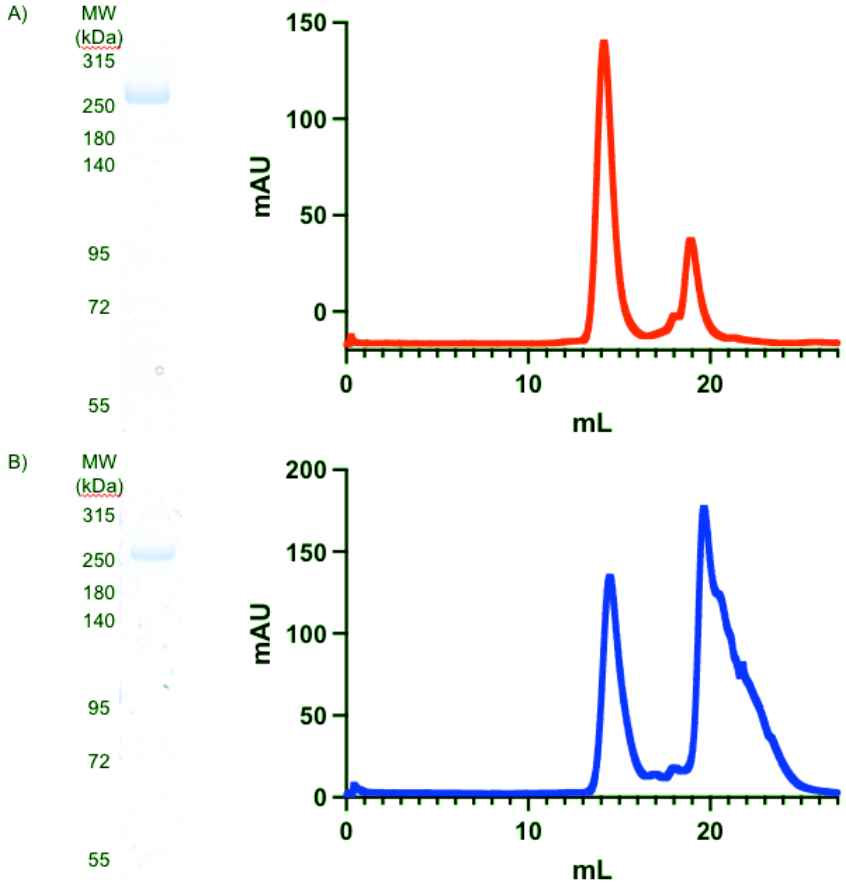

Figure 1: Example chromatograms and SDS-PAGE gels of purified human and mouse FASN showing. A) Coomassie stained SDS-PAGE gel showing a single band for human FASN at 270 kDa. Sepharose 6 size exclusion chromatogram of purified human FASN with a single monodispersed FASN peak at 14.5mL and a second peak at 19 mL corresponding to TEV protease used to remove the protein from the resin. B) Coomassie stained SDS-PAGE gel with a single band for mouse FASN at 270 kDa. Sepharose 6 size exclusion chromatogram with a single monodispersed peak for mouse FASN at 14.5mL, and a second peak at 20mL for the auxiliary protein required for posttranslational modification of FASN expressed in bacterial cells.

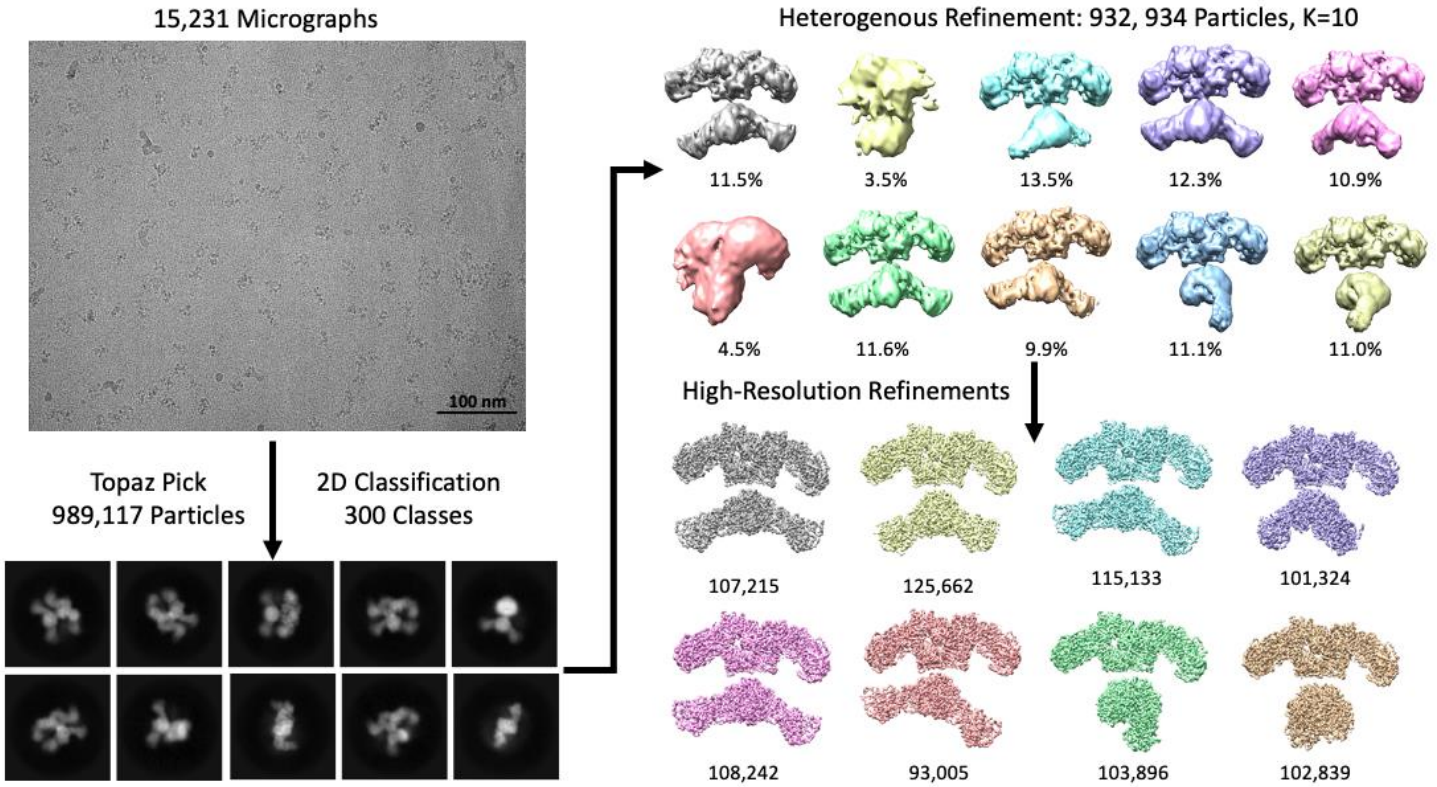

Figure 2: Data processing workflow for human FASN cryo-EM dataset to determine the structure in 8 distinct conformations at 3.0-3.5 Å resolutions.