



**FIGURE 1.** A. Chromatography profile from SEC with Superdex200, elution at 0.55CV for 128kDa protein, B. Profile from REFYN performed at NCCAT shows predominant species of interest labeled in blue box, C. Sample micrograph of GrsA and initial processing with cryoSPARC pipeline, D. Resulting ab initio 3D models from earlier (top) and later (bottom) iterations, E. Final envelope overlaid with existing PDB structures for components of our full molecular target, GrsA A-PCP-E.