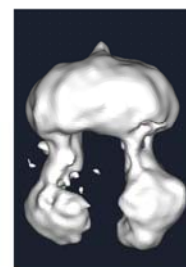
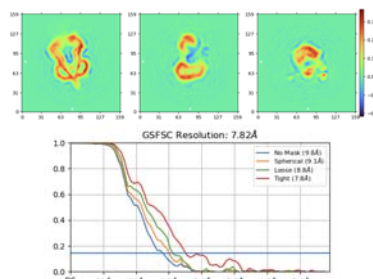
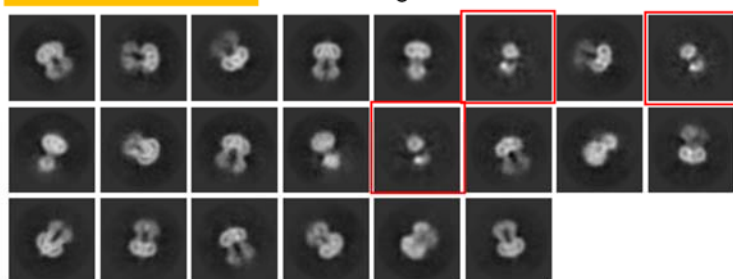


Grid Preparation: Chameleon resulted in higher resolution than Leica Plunger

BAD (for this project) Leica Plunger: **Low resolution** information



GOOD Chameleon: **High resolution**, larger number of particles, more orientations

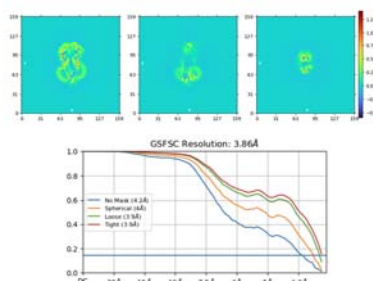
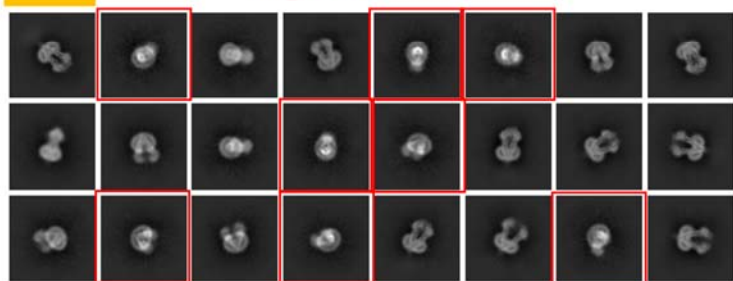


Figure 1. 2D classifications reveals differences in data quality between grid preparation techniques using the same sample: Leica GP2 plunger (top) and Chameleon (SPT Lab Tech) (bottom).

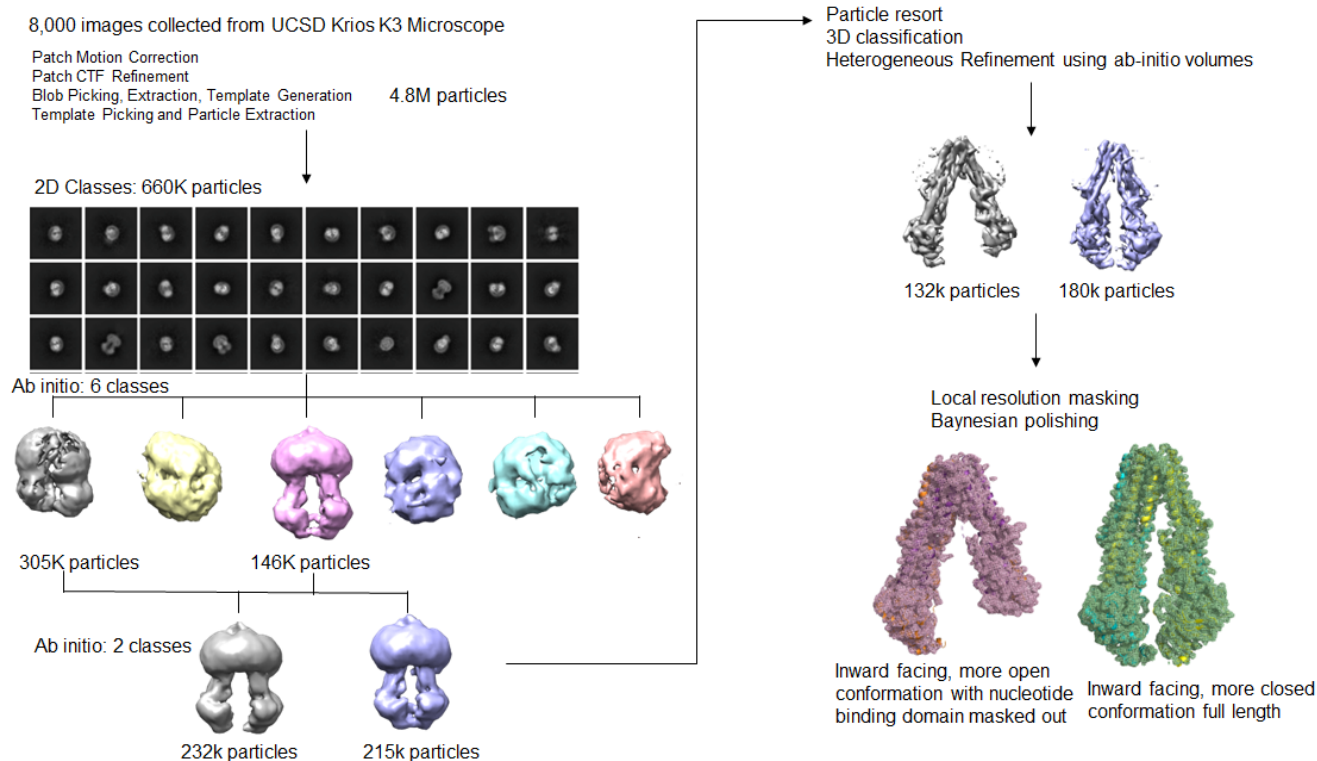


Figure 2. Cryo-EM workflow for current apo tuna Pgp data analysis. Data was divided into two distinct inward facing conformations using 3D classification and masking.