

Figure 1. Cryo-EM micrograph of purified substratebound Cdc48 complexes. Image recorded on Talos Arctica/K2.

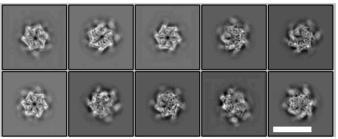


Figure 2. Reference-free 2D classes of the substrate-bound Cdc48 particle. Scale bar, 20 nm.

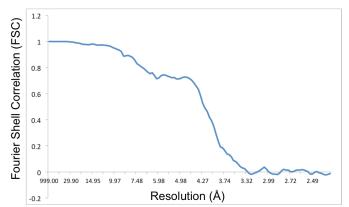


Figure 3. Reference-free 2D classes of the substrate-bound Cdc48 particle.

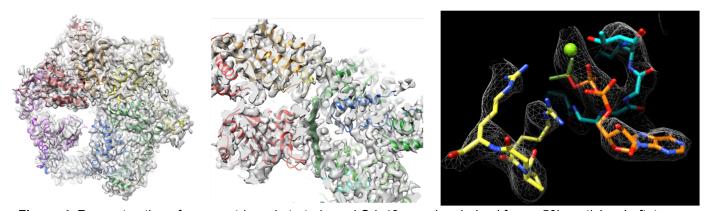


Figure 4. Reconstruction of asymmetric, substrate-bound Cdc48 complex derived from ∼50k particles. Left, top view of complex. Note that the pink subunit is pulled away from the central pore and disengaged from substrate. Middle, cut-away side view showing substrate density (green). Right, density and model of nucleotide (ATP).