



Extended Data Figure 2 | Overview of single-particle cryo-EM for hTRPV6 in nanodiscs. **a**, Example cryo-EM micrograph for hTRPV6 in nanodiscs with example particles circled in red. **b**, Orientations of particles that contributed to the final 3.6 Å reconstruction. Longer red rods represent orientations with more particles. **c**, Local resolution mapped on density at 0.013 threshold level (UCSF Chimera) calculated using Resmap

and two unfiltered half maps, with the highest resolution observed for the channel core. **d**, FSC curve calculated between half maps. **e**, Cross-validation FSC curves for the refined model versus unfiltered half maps (only half map1 was used for PHENIX refinement) and the unfiltered summed map.