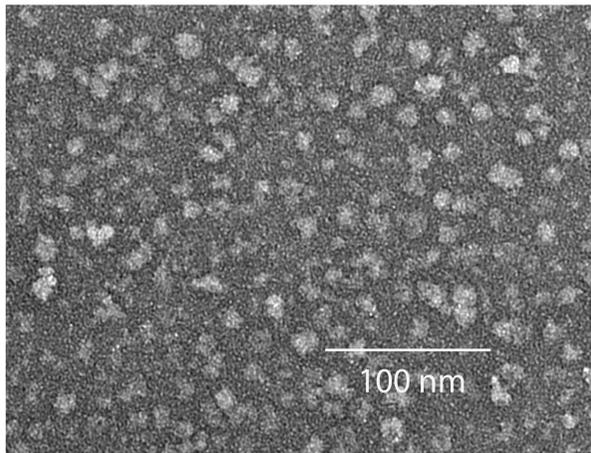
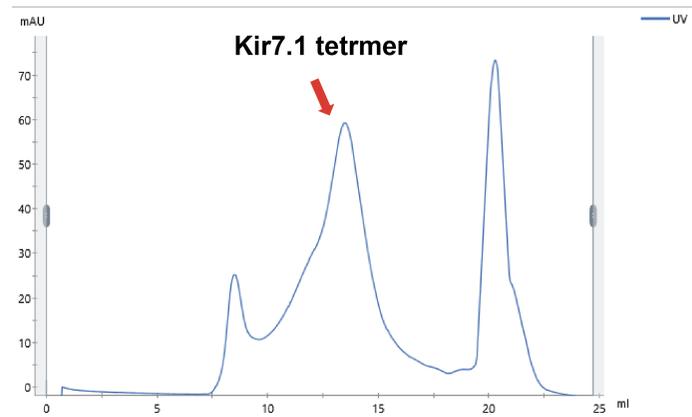


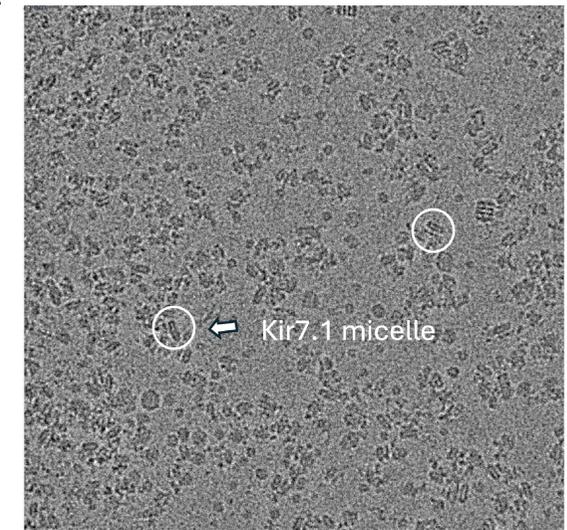
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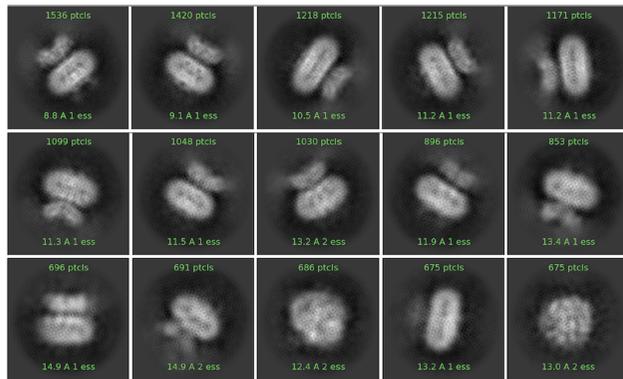
B



C



D



E

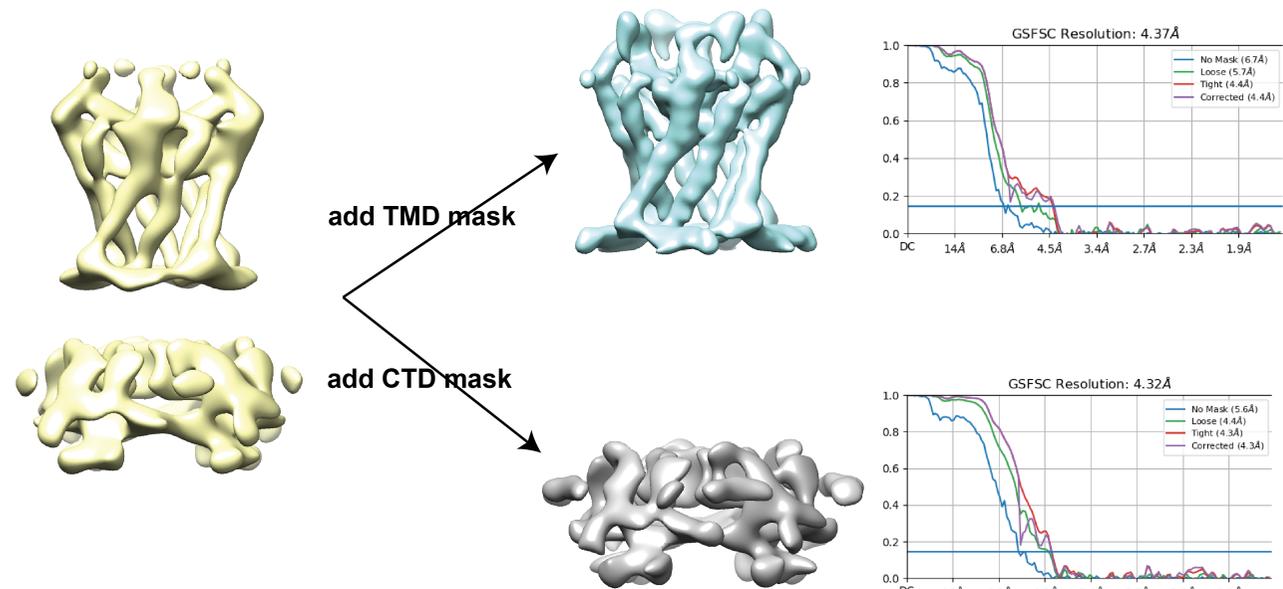


Figure 1. Cryo-EM analysis of the Kir7.1 . **(A)** Negative stain image of purified hKir7.1 **(B)** Gel filtration result. Red arrow points the peak of purified hKir7.1 tetramer. **(C)** A representative micrograph of hKir7.1. **(D)** Representative 2D class averages from CryoSPARC. **(E)** Current cryo-EM map of apo-Kir7.1. Right top-applied mask to refine transmembrane domain; Right bottom-apply mask to refine C terminal domain.