

Supplementary information, Fig. S8 Single-particle cryo-EM analysis of ATP-bound MIaF<sub>EQ</sub>EDB in nanodiscs. a-d cryo-EM analysis of EQ<sub>tall</sub> state. a, Angular distribution of particle images in EQ<sub>tall</sub> state. b, Local resolution of the final cryo-EM map of EQ<sub>tall</sub> state. c, Gold standard FSC curve for the 3D refinement of EQ<sub>tall</sub> state (blue). d, FSC curve of EQ<sub>tall</sub> state between the atomic model and the final map with indicated resolution at FSC=0.5 (black); FSC curve between half map 1 (red) or half map 2 (green) and the atomic model refined against half map 1. e-h are cryo-EM analysis of EQ<sub>close</sub> state, which are same to a-d in order. i, Cryo-EM densities for the nucleotides bound at the ATP-binding sites of two subunits of MIaF in EQ<sub>tall</sub> and EQ<sub>close</sub>.j, the interaction between the phospholipids and EQ<sub>tall</sub> state, the acyl chain density is shown in blue.