

Figure 1. Structural determination of Piezo1 in liposomes of various sizes. Micrographs of large (A) and small liposomes (B). (C) 2D class averages of Piezo1 from liposomes. (D) Overlay Piezo1 state I from small liposomes (blue) and state II from large liposomes (red). (E) Normalized size distribution of small (blue) and large liposomes (red) corresponding to state-I and state-II. (F) Comparison to previously published Piezo1 structures in liposomes, state-III (green), state-II (red), and state-I (blue). Arrow indicates the movement of Piezo Blade between different states. Displacements of Piezo Repeat E between different states are shown.

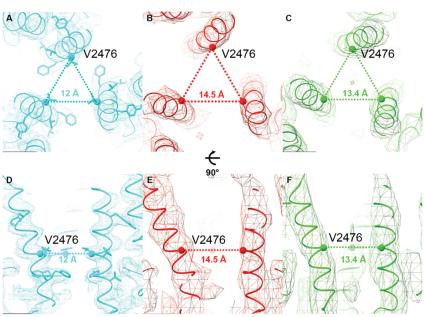


Figure 2. Pore expansion. (A-C) Top views of the superimposed model and cryo-EM density of inner helices in state-I (blue), state-II (red), and state-III (green) are shown. The distances between gate residues V2476 are also illustrated. (D-F) Side views of the inner helices in state-I (blue), state-II (red), and state-III (green) are shown, with the distances between gate residues V2476 indicated.