Supplemental figures:

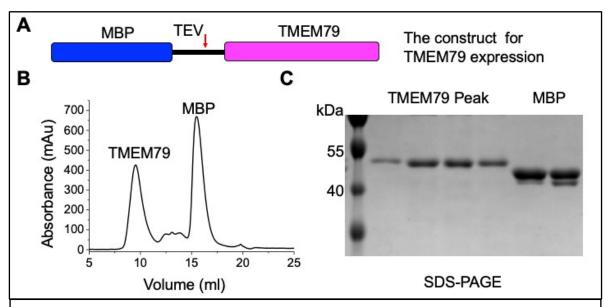


Fig. 1. Expression and purification of TMEM79. A. Diagram of TMEM79 expression construct. **B.** The gel filtration profile of TMEM79 purification. The first peak is TMEM79 and second peak is MBP as determined by SDS-PAGE. **C.** SDS-PAGE gel of the purified samples.

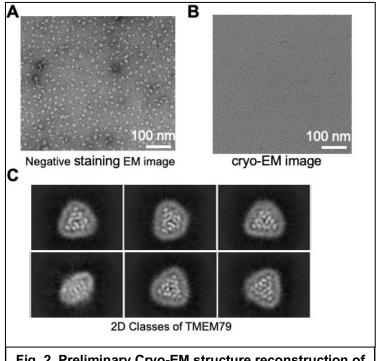


Fig. 2. Preliminary Cryo-EM structure reconstruction of TMEM79. A. A representative negative-staining EM image of TMEM79. **B.** A representative cryo-EM image of TMEM79. **C.** 2D images of TMEM79.