



**Fig. S6.** Line scans of fluorescence intensity versus distance along the arrows shown in Fig 3*b*. (A) Profiles of gelsolin-Alexa488 (red) and PIP<sub>2</sub>-containing vesicles filled with rhodamine590 (blue) in the absence of ATP. (B) Gelsolin-Alexa488 (red) was released and the size of phospholipid vesicle (filled by rhodamine590, blue) was changed by 0.5 mM ATP treatment in Fig 3*b*.