

## **Description of Additional Supplementary Files**

### **Supplementary Video 1.**

The video shows a 3D representation of a cryo-electron tomograms of liposomes treated with PLY. The liposomal membranes contain back-to-back protein pores and prepores of PLY as highlighted (Figure 3a).

### **Supplementary Video 2.**

The video shows a 3D representation of a cryo-electron tomograms of isolated PLY-pores. The protein pores were formed by oligomerization of PLY monomers in liposomal membranes and were isolated by treatment of the PLY-liposome mixture with the detergent Cymal-6 followed by Amphipol-35 (Figure 3b).

### **Supplementary Video 3.**

The video shows a 3D representation of a cryo-electron tomograms of liposomes in the presence of PLY and inhibitor (PB-2). The liposomes are constructed of smooth vesicle membranes without the formation membrane-embedded proteins and pores or pre-pores (Figure 3c).