

## **SUPPLEMENTAL FIGURE LEGENDS**

### **LEGEND FOR SUPPLEMENTAL FIGURE 1**

Fluorescence intensities of EGFP-D4 (green) and mCherry-D4 (magenta) in the Figure were quantified in the area surrounded by white rectangle with ImageJ software (NIH) and fitted by a single exponential decay function (blue) or the sum of two single exponential functions (yellow) with MATLAB software (The MathWorks, Inc.).

### **LEGEND FOR SUPPLEMENTAL FIGURE 2**

40  $\mu\text{g/ml}$  of EGFP-D4 and mCherry-D4 were incubated with 1 mM multilamellar vesicles composed of 1,2-dioleoyl-sn-glycero-3-phosphocholine (DOPC) containing the indicated amount of Chol in PBS (pH7.5) for 30 min at room temperature. Then, the mixtures were centrifuged at 21,600 g for 10 min at 25°C. The pellets were subjected to SDS-PAGE followed by SYPRO Ruby staining.

### **LEGEND FOR VIDEO 1**

Fluorescence images of EGFP-D4 (green) and mCherry-D4 (magenta) in the absence of M $\beta$ CD. Images were captured at 5-min intervals and are replayed at 4 frames per second. Scale bar represents 5  $\mu\text{m}$ .

### **LEGEND FOR VIDEO 2**

Fluorescence images of EGFP-D4 (green) and mCherry-D4 (magenta) after addition of 1 mM M $\beta$ CD. Images were captured at 5-min intervals and are replayed at 4 frames per second. Scale bar represents 5  $\mu\text{m}$ .