CLAIMS

1. A peptide comprising the amino acid sequence of SEQ ID NO: 8.

2. The peptide of claim 1, wherein the peptide penetrates a lipid bilayer comprising 30% or more DOPC.

3. The peptide of claim 1, wherein the peptide penetrates a lipid bilayer consisting of DOPC.

4. A fusion protein comprising the peptide of any one of claims 1 to 3, and a fluorescent protein linked to the N-terminal of the peptide.

5. The fusion protein of claim 4, wherein the peptide of any one of claims 1 to 3 is linked to the protein of interest via a ligation sequence GGGSGGGS.

6. A construct comprising a nucleic acid sequence encoding the fusion protein of claim 4 or 5.

7. A method of preparing a liposome encapsulating a fluorescent protein, comprising

   mixing the fusion protein of claim 4 or 5 with a liposome, wherein a lipid bilayer of the liposome comprises 30% or more DOPC.

8. A liposome encapsulating the fusion protein of claim 4 or 5, wherein the liposome comprises 30% or more DOPC.