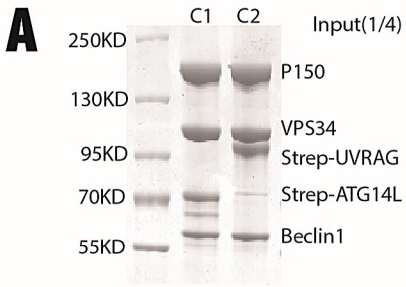
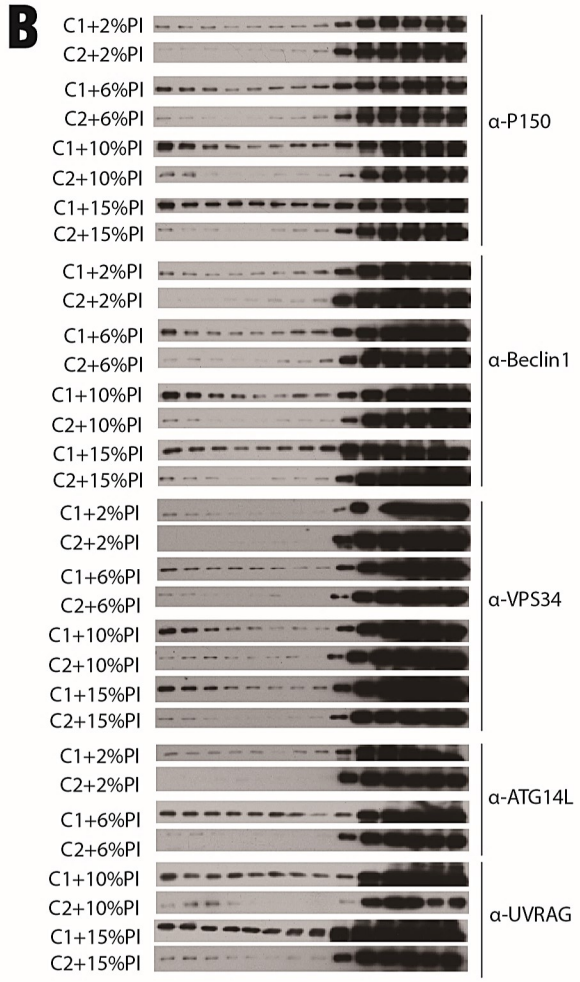
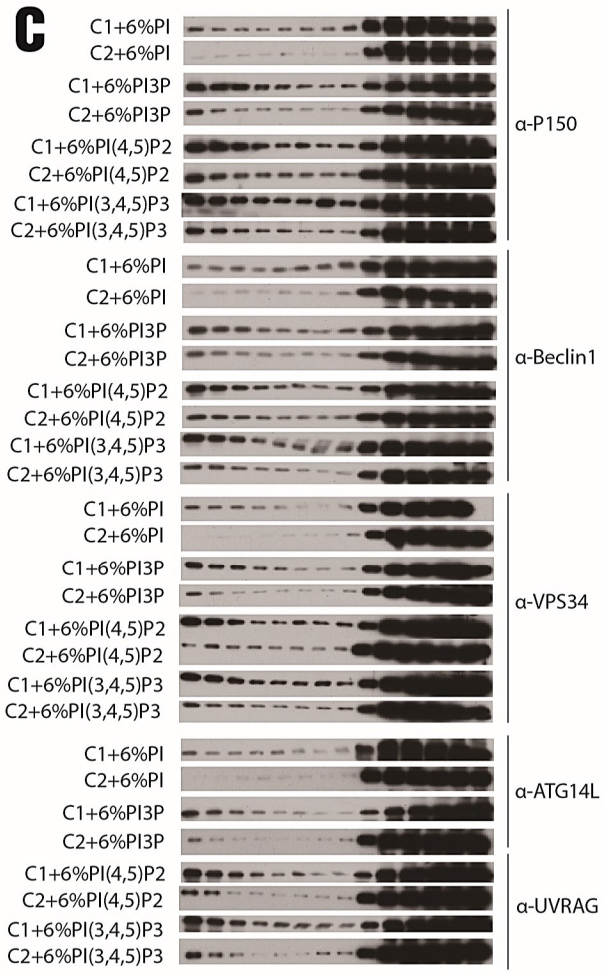
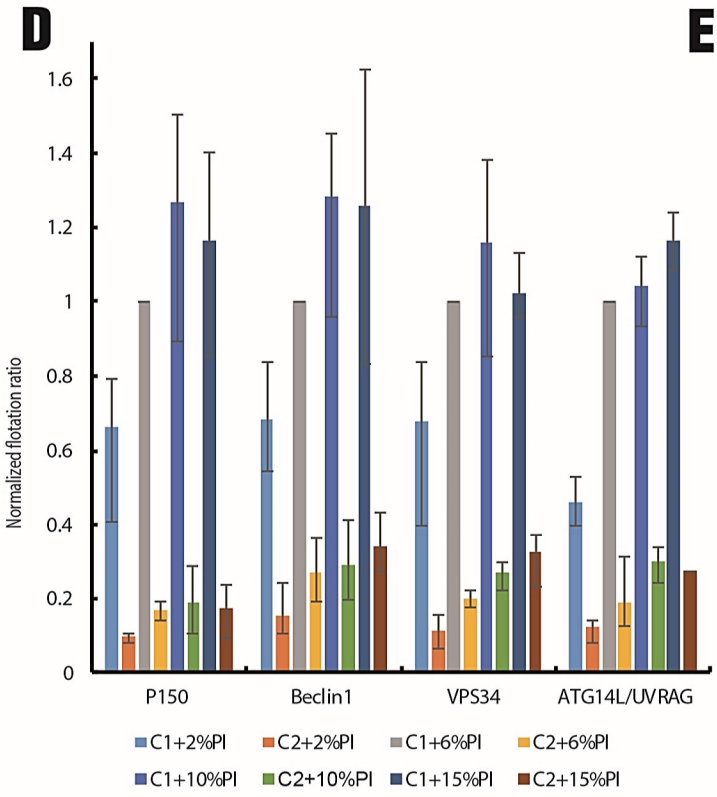

A
C1
C2
Input(1/4)
250KD
130KD
95KD
70KD
55KD
P150
VPS34
Strep-UVRAG
Strep-ATG14L
Beclin1


B
C1+2%PI
C2+2%PI
C1+6%PI
C2+6%PI
C1+10%PI
C2+10%PI
C1+15%PI
C2+15%PI
α-P150
α-Beclin1
α-VPS34
α-ATG14L
α-UVRAG


C
C1+6%PI
C2+6%PI
C1+6%PI3P
C2+6%PI3P
C1+6%PI(4,5)P2
C2+6%PI(4,5)P2
C1+6%PI(3,4,5)P3
C2+6%PI(3,4,5)P3
α-P150
α-Beclin1
α-VPS34
α-ATG14L
α-UVRAG


D
Normalized flotation ratio
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
P150
Beclin1
VPS34
ATG14L/UVRAG
C1+2%PI
C2+2%PI
C1+6%PI
C2+6%PI
C1+10%PI
C2+10%PI
C1+15%PI
C2+15%PI

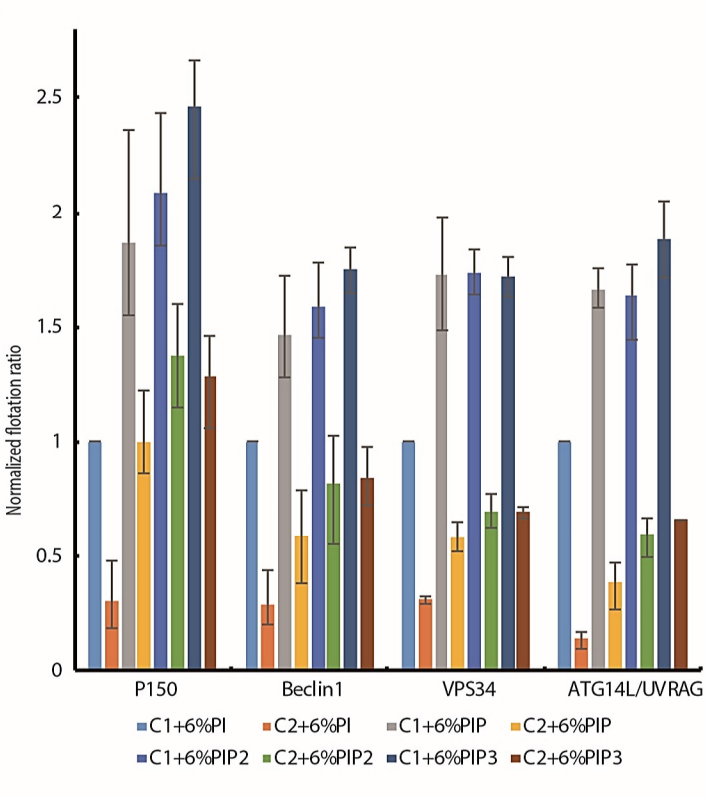

E
Normalized flotation ratio
0
0.5
1
1.5
2
2.5
P150
Beclin1
VPS34
ATG14L/UVRAG
C1+6%PI
C2+6%PI
C1+6%PIP
C2+6%PIP
C1+6%PIP2
C2+6%PIP2
C1+6%PIP3
C2+6%PIP3

Figure S6 The membrane binding ability of C2 is much weaker than C1. (A) Flotation assay to examine the interaction of C1 and C2 with liposomes containing 2%, 6%,10% or 15% PI in a sucrose gradient (from top to bottom: 0, 20%, 25%, 30%). All 14 fractions from top to bottom were analyzed by immunoblotting using antibodies against P150, VPS34, ATG14L, UVRAG or Beclin1. **(B)** The flotation ratio from **A** for P150, VPS34, ATG14L/UVRAG and Beclin1 was calculated by dividing the input with the top 8 fractions, then normalizing to the value for C1 (6% PI). Data are represented as mean ± SD (n = 3). **(C)** Flotation assay to examine the interaction of C1 and C2 with liposomes containing 6% PI, 6% PI3P, 6% PI(4,5)P2 or 6% PI(3,4,5)-containing liposomes in a sucrose gradient (from top to bottom: 0, 20%, 25%, 30%). All 14 fractions from top to bottom were analyzed by immunoblotting using antibodies against P150, VPS34, ATG14L, UVRAG or Beclin1. **(D)** The flotation ratio from **C** for P150, VPS34, ATG14L/UVRAG and Beclin1 was calculated by dividing the input with the top 8 fractions, then normalizing to the value for C1 (6% PI). Data are represented as mean ± SD (n = 3). **(E)** 1/4 of the protein input for the flotation assays shown in **A** and **B**.