

Fig. S1. Pil1 co-tethering assay using Atg1 and Atg11 as bait and subunits of the Atg1 complex as prey. (A) Experiments using Pil1-mCherry as a negative control bait. (B) Imaging data from the experiments shown in (A) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (C) Experiments using the Pil-mCherry-Atg1 bait. (D) Imaging data from the experiments shown in (C) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (E) Experiments using the Pil-mCherry-Atg11 bait. (F) Imaging data from the experiments shown in (E) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). Scale bars, 5 μ m.

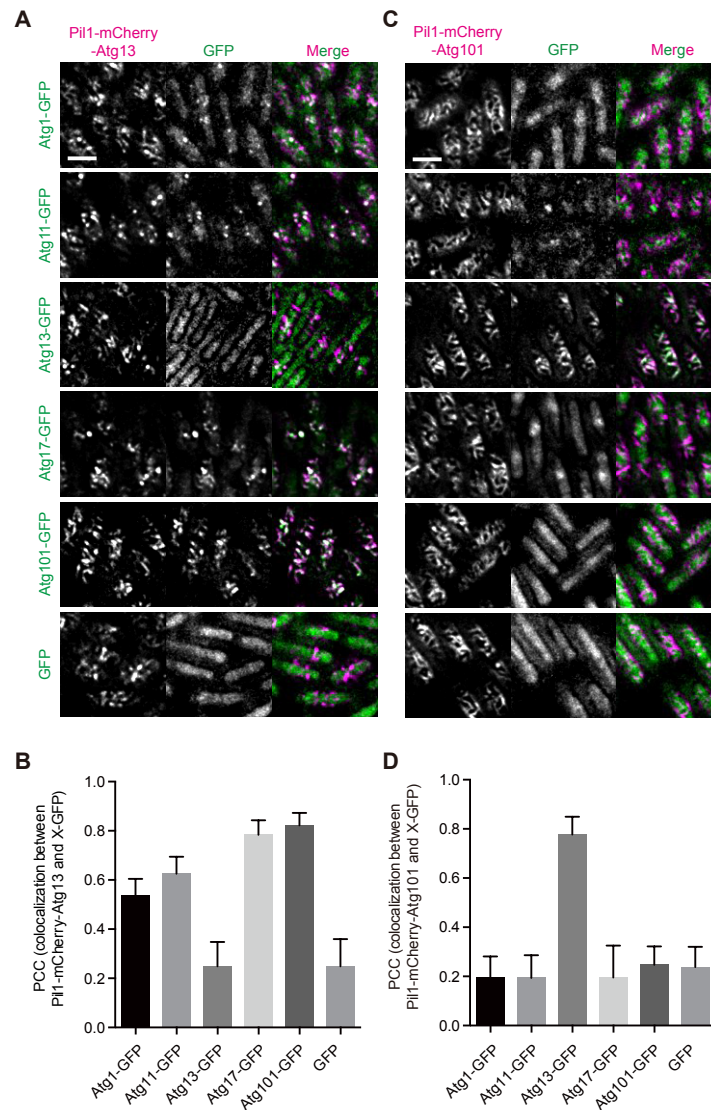


Fig. S2. Pil1 co-tethering assay using Atg13 and Atg101 as bait and subunits of the Atg1 complex as prey. (A) Experiments using the Pil1-mCherry-Atg13 bait. (B) Imaging data from the experiments shown in (A) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (C) Experiments using the Pil1-mCherry-Atg101 bait. (D) Imaging data from the experiments shown in (C) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). Scale bars, 5 μ m.

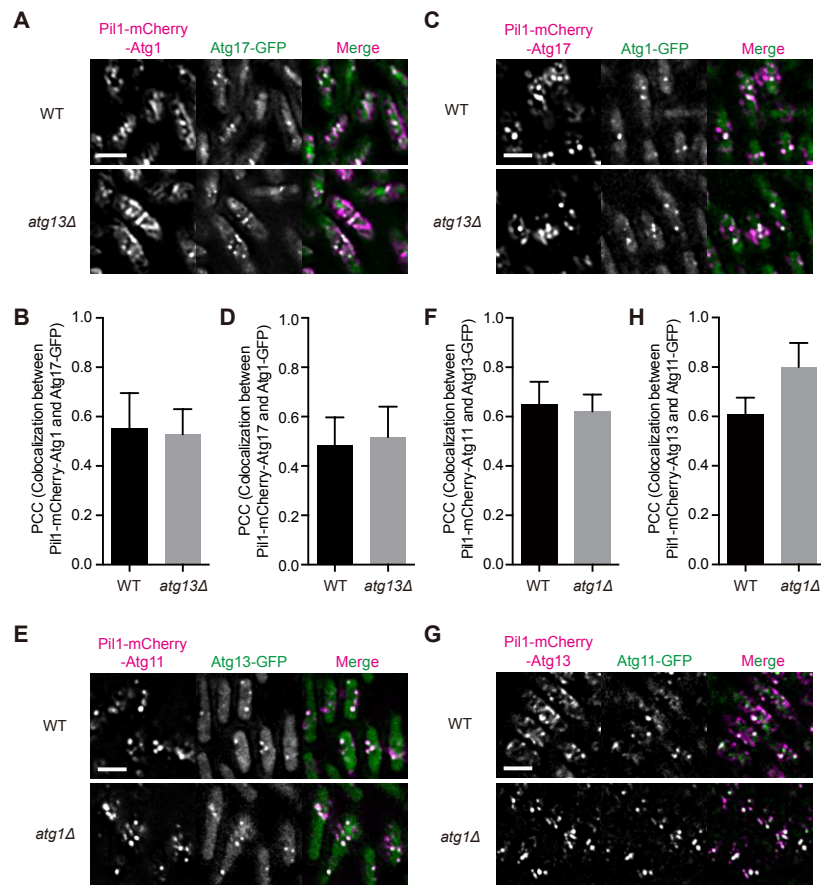


Fig. S3. The interaction between Atg1 and Atg17 is independent of Atg13, and the interaction between Atg11 and Atg13 is independent of Atg1. (A) The deletion of *atg13* did not affect the interaction between Atg1 and Atg17 when using Atg1 as bait. (B) Imaging data from the experiments shown in (A) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (C) The deletion of *atg13* did not affect the interaction between Atg1 and Atg17 when using Atg17 as bait. (D) Imaging data from the experiments shown in (C) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (E) The deletion of *atg1* did not affect the interaction between Atg11 and Atg13 when using Atg11 as bait. (F) Imaging data from the experiments shown in (E) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (G) The deletion of *atg1* did not affect the interaction between Atg11 and Atg13 when using Atg13 as bait. (H) Imaging data from the experiments shown in (G) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). Scale bars, 5 μ m.

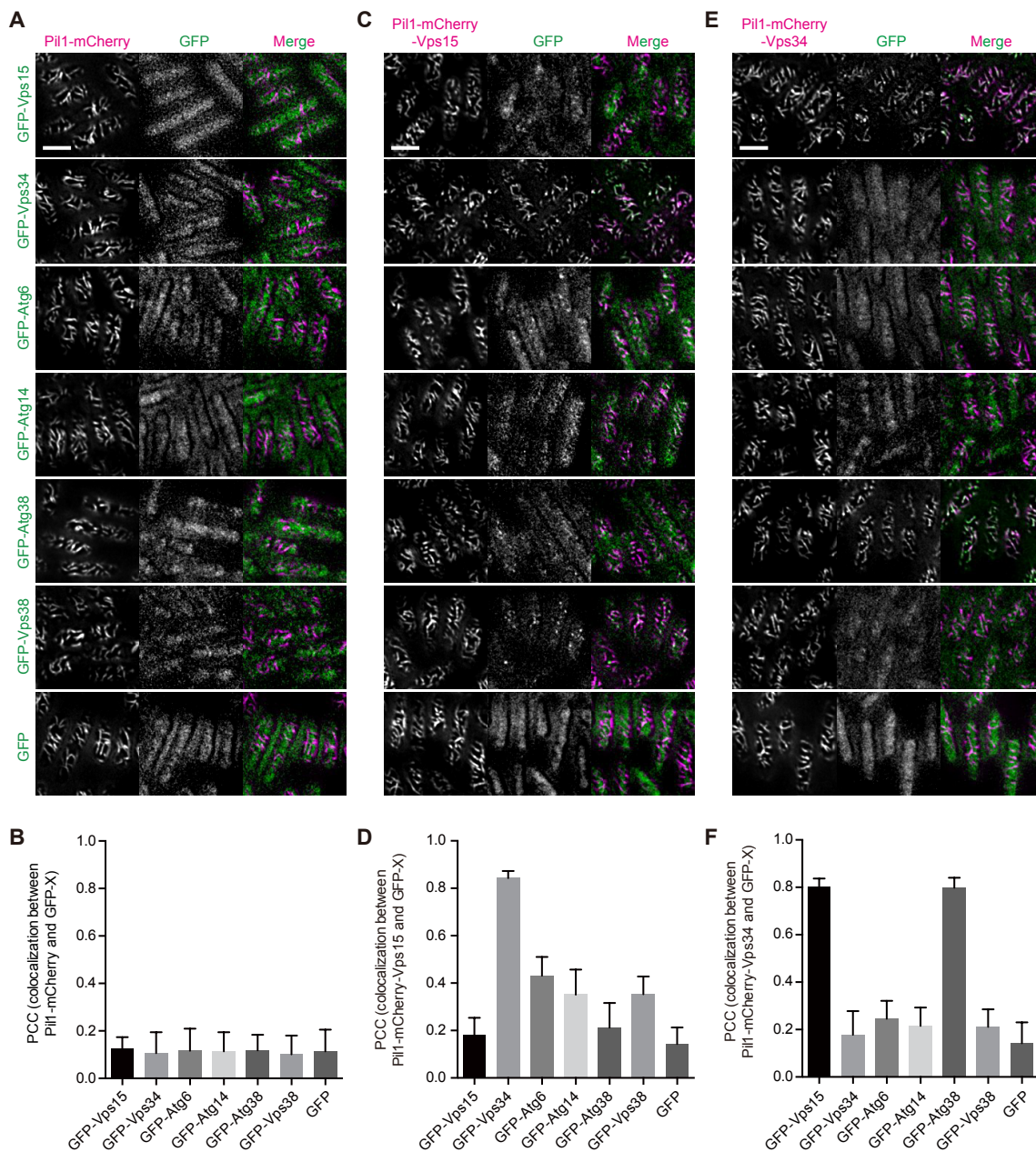


Fig. S4. Pil1 co-tethering assay using Vps15 and Vps34 as bait and subunits of PtdIns3K complexes as prey. (A) Experiments using Pil1-mCherry as a negative control bait. (B) Imaging data from the experiments shown in (A) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (C) Experiments using Pil1-mCherry-Vps15 as bait. (D) Imaging data from the experiments shown in (C) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (E) Experiments using Pil1-mCherry-Vps34 as bait. (F) Imaging data from the experiments shown in (E) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). Scale bars, 5 μ m.

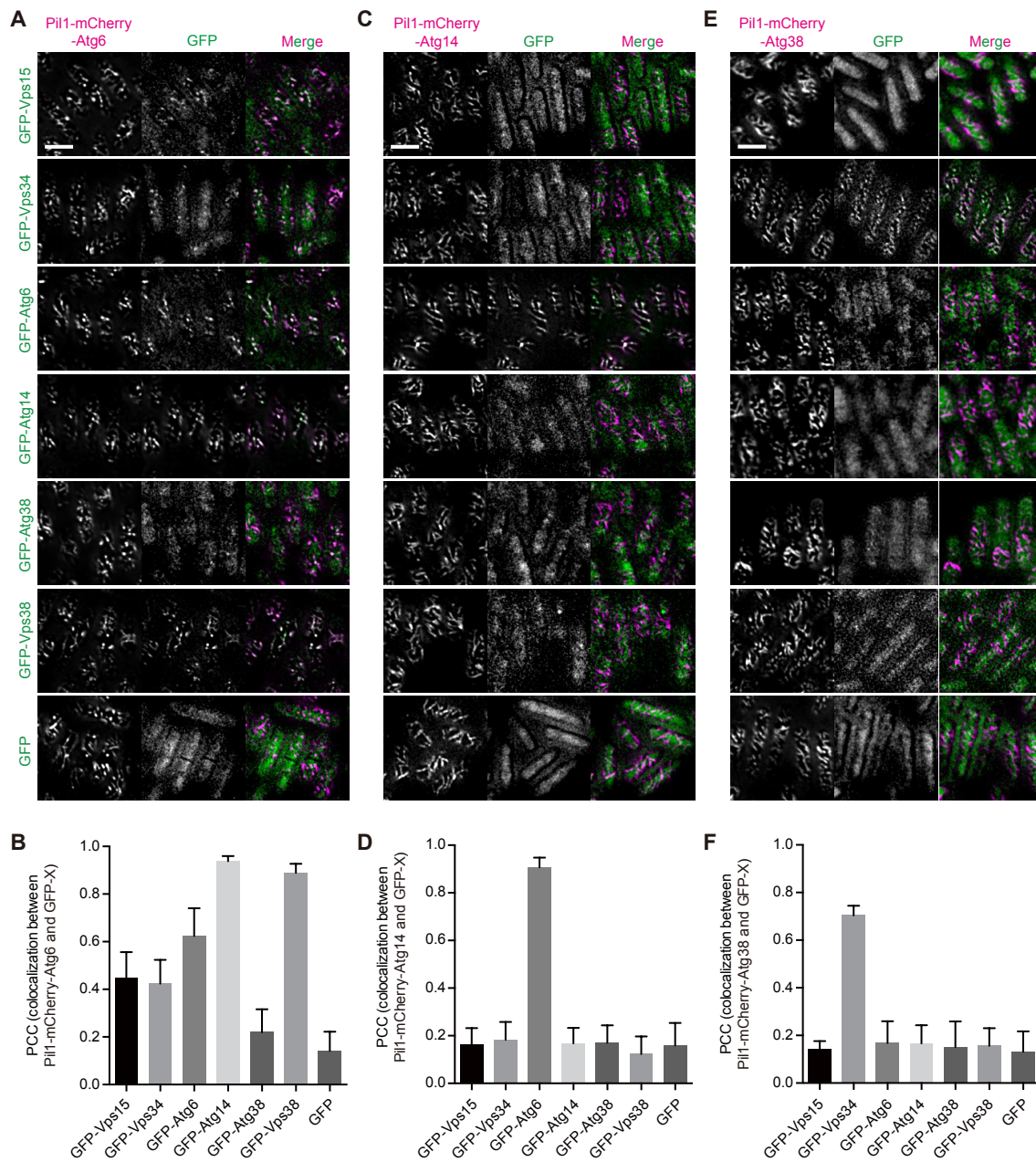


Fig. S5. Pil1 co-tethering assay using Atg6, Atg14, and Atg38 as bait and subunits of PtdIns3K complexes as prey. (A) Experiments using Pil1-mCherry-Atg6 as bait. (B) Imaging data from the experiments shown in (A) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (C) Experiments using Pil1-mCherry-Atg14 as bait. (D) Imaging data from the experiments shown in (C) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (E) Experiments using Pil1-mCherry-Atg38 as bait. (F) Imaging data from the experiments shown in (E) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). Scale bars, 5 μ m.

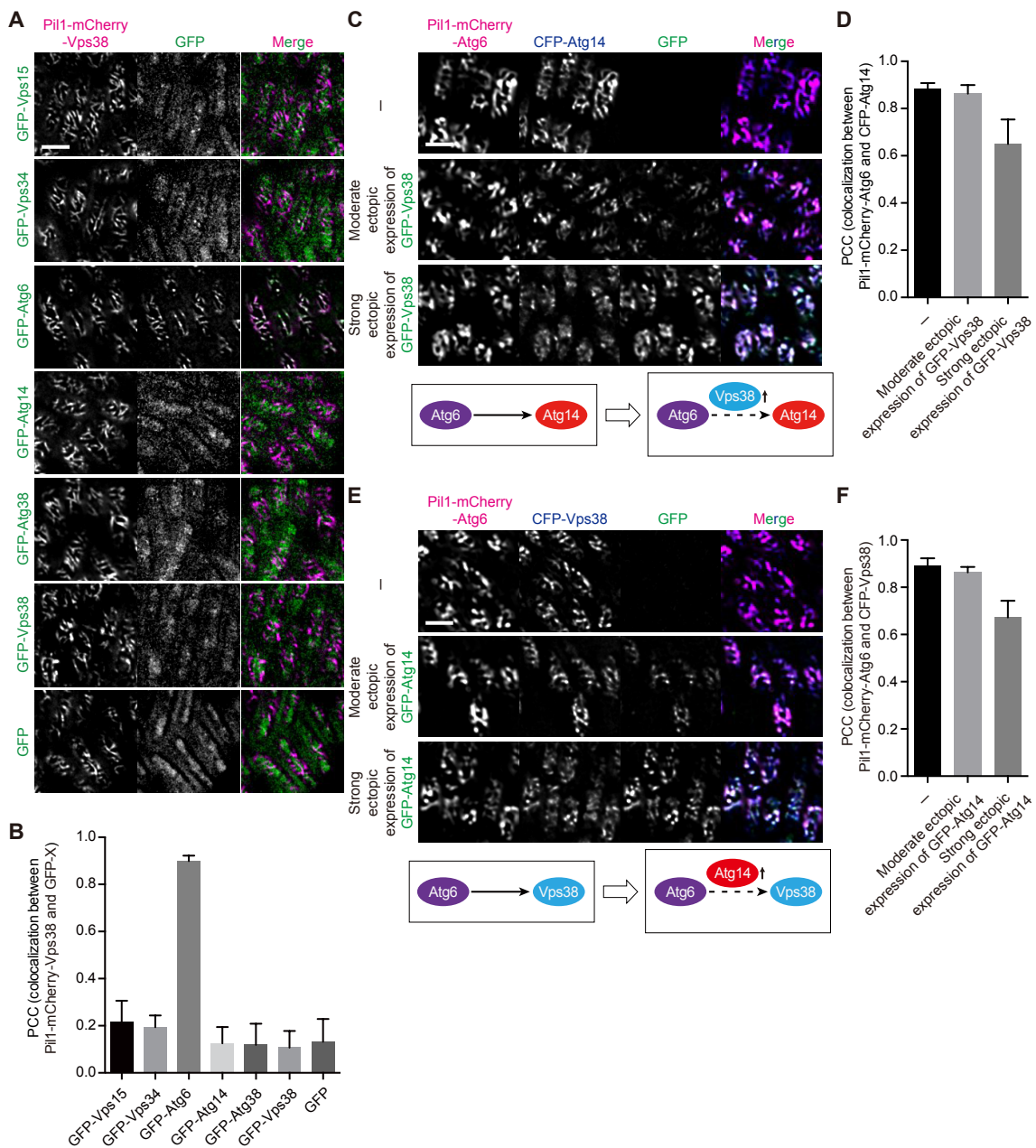


Fig. S6. Atg14 and Vps38 compete with each other to bind Atg6 in the Pil1 co-tethering assay using Atg6 as bait. (A) Experiments using Pil1-mCherry-Vps38 as bait. (B) Imaging data from the experiments shown in (A) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (C) Strongly ectopically expressing Vps38 decreased the colocalization of Atg6 and Atg14. (D) Imaging data from the experiments shown in (C) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (E) Strongly ectopically expressing Atg14 decreased the colocalization of Atg6 and Vps38. (F) Imaging data from the experiments shown in (E) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). Scale bars, 5 μ m.

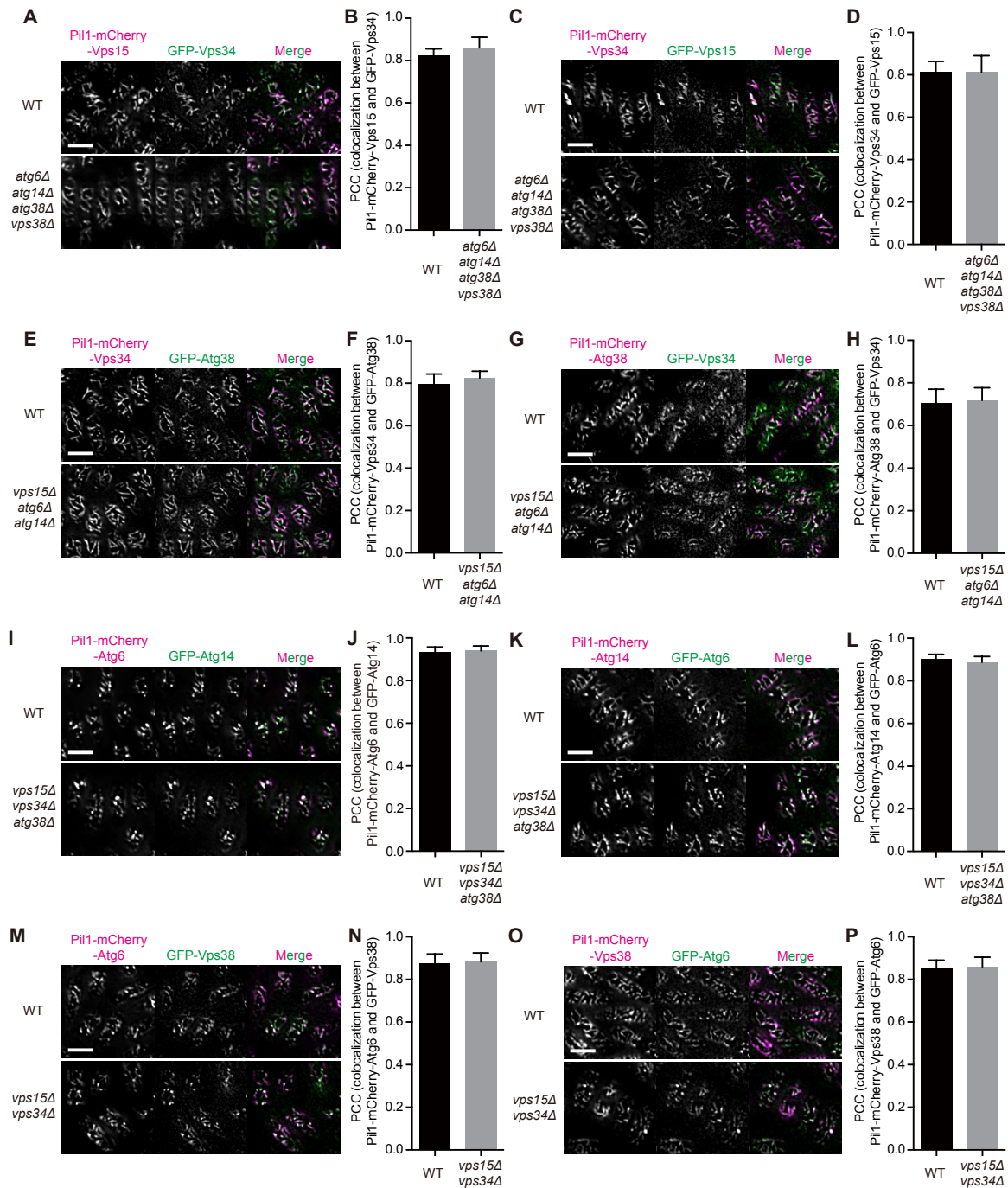


Fig. S7. Interactions between Vps15 and Vps34, between Vps34 and Atg38, between Atg6 and Atg14, and between Atg6 and Vps38 are independent of the other subunits of PtdIns3K complexes. (A) Deletion of *atg6*, *atg14*, *atg38*, and *vps38* did not influence the interaction between Vps15 and Vps34 when using Vps15 as bait. (B) Imaging data from the experiments shown in (A) were analyzed and the PCC values are presented as mean \pm s.d. (10

cells). (C) Deletion of *atg6*, *atg14*, *atg38*, and *vps38* did not influence the interaction between Vps15 and Vps34 when using Vps34 as bait. (D) Imaging data from the experiments shown in (C) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (E) Deletion of *vps15*, *atg6*, and *atg14* did not influence the interaction between Vps34 and Atg38 when using Vps34 as bait. (F) Imaging data from the experiments shown in (E) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (G) Deletion of *vps15*, *atg6*, and *atg14* did not influence the interaction between Vps34 and Atg38 when using Atg38 as bait. (H) Imaging data from the experiments shown in (G) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (I) Deletion of *vps15*, *vps34*, and *atg38* did not influence the interaction between Atg6 and Atg14 when using Atg6 as bait. (J) Imaging data from the experiments shown in (I) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (K) Deletion of *vps15*, *vps34*, and *atg38* did not influence the interaction between Atg6 and Atg14 when using Atg14 as bait. (L) Imaging data from the experiments shown in (K) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (M) Deletion of *vps15* and *vps34* did not influence the interaction between Atg6 and Vps38 when using Atg6 as bait. (N) Imaging data from the experiments shown in (M) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (O) Deletion of *vps15* and *vps34* did not influence the interaction between Atg6 and Vps38 when using Vps38 as bait. (P) Imaging data from the experiments shown in (O) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). Scale bars, 5 μ m.

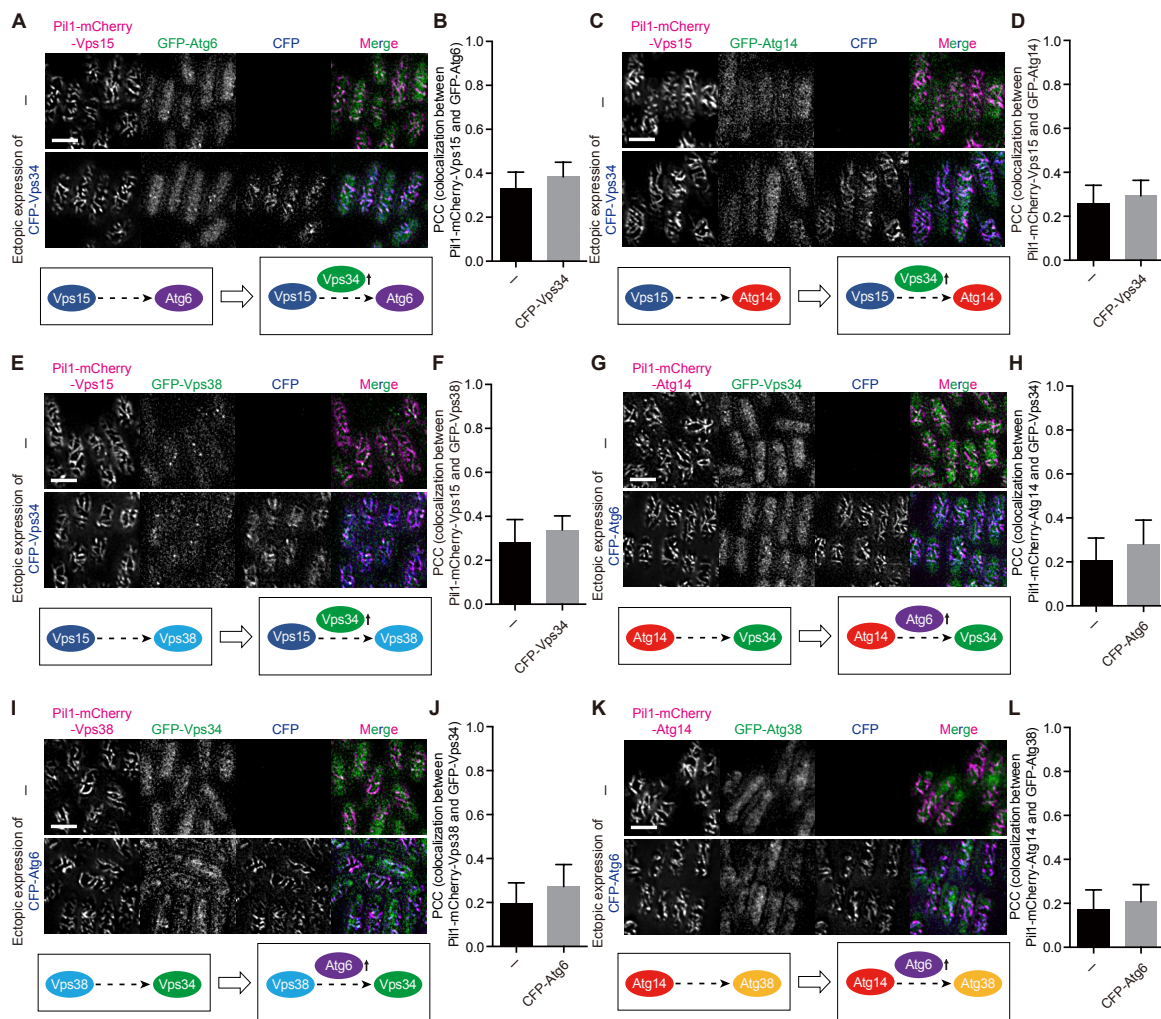


Fig. S8. The Vps15-Vps34 subcomplex does not interact with Atg6, Atg14, and Vps38; the Atg6-Atg14 subcomplex does not interact with Vps34 and Atg38; the Atg6-Vps38 subcomplex does not interact with Vps34. (A) Ectopic expression of Vps34 did not lead to the colocalization of Vps15 and Atg6. (B) Imaging data from the experiments shown in (A) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (C) Ectopic expression of Vps34 did not lead to the colocalization of Vps15 and Atg14. (D) Imaging data from the experiments shown in (C) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (E) Ectopic expression of Vps34 did not lead to the colocalization of Vps15 and Vps38. (F) Imaging data from the experiments shown in (E) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (G) Ectopic expression of Atg6 did not lead to the colocalization of Atg14 and Vps34. (H) Imaging data from the experiments shown in (G) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (I) Ectopic

expression of Atg6 did not lead to the colocalization of Vps38 and Vps34. (J) Imaging data from the experiments shown in (I) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). (K) Ectopic expression of Atg6 did not lead to the colocalization of Atg14 and Atg38. (L) Imaging data from the experiments shown in (K) were analyzed and the PCC values are presented as mean \pm s.d. (10 cells). Scale bars, 5 μ m.

Table S1. Strains used in this study

Strain	Mating Type	Genotype	Use
DY39067	h?	<i>leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pil1-mCherry(ura4+)</i>	Fig. 1A
DY37285	h-	<i>atg38A::kanMX leu1-32::41nmt1p-pil1-mCherry(leu1+)</i> <i>ars1::41nmt1p-GFP-atg8(ura4+)</i>	Fig. 2B,C
DY37288	h-	<i>ura4-D18 atg38A::kanMX leu1-32::41nmt1p-pil1-mCherry-</i> <i>atg38(161-190)(leu1+) ars1::41nmt1p-GFP-atg8(ura4+)</i>	Fig. 2B,C
DY37660	h-	<i>ura4-D18 atg38A::kanMX leu1-32::41nmt1p-pil1-mCherry-</i> <i>atg38(161-190)F178A(leu1+) ars1::41nmt1p-GFP-atg8(ura4+)</i>	Fig. 2B,C
DY37663	h-	<i>ura4-D18 atg38A::kanMX leu1-32::41nmt1p-pil1-mCherry-</i> <i>atg38(161-190)V181A(leu1+) ars1::41nmt1p-GFP-atg8(ura4+)</i>	Fig. 2B,C
DY37666	h-	<i>ura4-D18 atg38A::kanMX leu1-32::41nmt1p-pil1-mCherry-</i> <i>atg38(161-190)F178A V181A(leu1+) ars1::41nmt1p-GFP-</i> <i>atg8(ura4+)</i>	Fig. 2B,C
DY38114	h-	<i>ura4-D18 atg38A::kanMX leu1-32::41nmt1p-pil1-mCherry-</i> <i>atg38(161-190)(leu1+) ars1::41nmt1p-GFP-atg8P52A R67A(ura4+)</i>	Fig. 2B,C
DY31436	h+	<i>his3-D1 ura4-D18 leu1-32::41nmt1p-pil1-mCherry(leu1+)</i> <i>ars1::41nmt1p-hfl1(386-409)-GFP(ura4+)</i>	Fig. 2E,F
DY31440	h+	<i>his3-D1 ura4-D18 leu1-32::41nmt1p-pil1-mCherry-atg8(1-</i> <i>115)(leu1+) ars1::41nmt1p-hfl1(386-409)-GFP(ura4+)</i>	Fig. 2E,F
DY32321	h?	<i>his3-D1 ura4-D18 leu1-32::41nmt1p-pil1-mCherry-atg8(1-</i> <i>115)(leu1+) ars1::41nmt1p-hfl1(386-409)Y398A-GFP(ura4+)</i>	Fig. 2E,F
DY39651	h+	<i>ura4-D18 leu1-32::41nmt1p-lig4-GFP (leu1+) ars1::41nmt1p-pil1-</i> <i>mCherry(ura4+)</i>	Fig. 3B,C
DY39653	h+	<i>ura4-D18 leu1-32::41nmt1p-lig4-GFP (leu1+) ars1::41nmt1p-pil1-</i> <i>mCherry-xrc4(ura4+)</i>	Fig. 3B,C
DY39818	h?	<i>ura4-D18 leu1-32::41nmt1p-lig4(741-913)-GFP (leu1+)</i> <i>ars1::41nmt1p-pil1-mCherry(ura4+)</i>	Fig. 3D,E
DY40113	h?	<i>ura4-D18 leu1-32::41nmt1p-lig4(741-913)-GFP (leu1+)</i> <i>ars1::41nmt1p-pil1-mCherry-xrc4(ura4+)</i>	Fig. 3D,E
DY44709	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pil1-</i> <i>mCherry-atg17(ura4+)</i>	Fig. 4B,C
DY44711	h-	<i>ura4-D18 leu1-32::41nmt1p-atg1-GFP(leu1+) ars1::41nmt1p-pil1-</i> <i>mCherry-atg17(ura4+)</i>	Fig. 4B,C, S3C,D
DY44713	h-	<i>ura4-D18 leu1-32::41nmt1p-atg11-GFP(leu1+) ars1::41nmt1p-pil1-</i> <i>mCherry-atg17(ura4+)</i>	Fig. 4B,C
DY44715	h-	<i>ura4-D18 leu1-32::41nmt1p-atg13-GFP(leu1+) ars1::41nmt1p-pil1-</i> <i>mCherry-atg17(ura4+)</i>	Fig. 4B,C
DY44717	h-	<i>ura4-D18 leu1-32::41nmt1p-atg17-GFP(leu1+) ars1::41nmt1p-pil1-</i> <i>mCherry-atg17(ura4+)</i>	Fig. 4B,C
DY44719	h-	<i>ura4-D18 leu1-32::41nmt1p-atg101-GFP(leu1+) ars1::41nmt1p-</i> <i>pil1-mCherry-atg17(ura4+)</i>	Fig. 4B,C

DY31679	h-	<i>ura4-D18 41nmt1p-CFP-vps34::hphMX leu1-32::nmt41-Pil1-mCherry(Leu1+)</i>	Fig. 5E,F
DY31681	h-	<i>ura4-D18 41nmt1p-CFP-vps34::hphMX leu1-32::41nmt1p-pil1-mCherry-atg38(Leu1+)</i>	Fig. 5E,F
DY31685	h-	<i>ura4-D18 41nmt1p-CFP-vps34::hphMX leu1-32::41nmt1p-pil1-mCherry-atg38(Δ153-160)(Leu1+)</i>	Fig. 5E,F
DY31689	h-	<i>ura4-D18 41nmt1p-CFP-vps34::hphMX leu1-32::41nmt1p-pil1-mCherry-atg38F157A(Leu1+)</i>	Fig. 5E,F
DY30042	h?	<i>ura4-D18 atg38Δ::kanMX pho8Δ::kanMX leu1-32::41nmt1p-pho8Δ60(<i>S.cerevesiae</i>)-GFP(<i>leu1+</i>) ars1::pDUAL-vector(<i>ura4+</i>)</i>	Fig. 5G
DY31619	h?	<i>ura4-D18 atg38Δ::kanMX pho8Δ::kanMX leu1-32::41nmt1p-pho8Δ60(<i>S.cerevesiae</i>)-GFP(<i>leu1+</i>) ars1::nmt1p-atg38-mCherry(<i>ura4+</i>)</i>	Fig. 5G
DY31651	h?	<i>ura4-D18 atg38Δ::kanMX pho8Δ::kanMX leu1-32::41nmt1p-pho8Δ60(<i>S.cerevesiae</i>)-GFP(<i>leu1+</i>) ars1::nmt1p-atg38F157A-mCherry(<i>ura4+</i>)</i>	Fig. 5G
DY31623	h?	<i>ura4-D18 atg38Δ::kanMX pho8Δ::kanMX leu1-32::41nmt1p-pho8Δ60(<i>S.cerevesiae</i>)-GFP(<i>leu1+</i>) ars1::nmt1p-atg38-mCherry-vps34(<i>ura4+</i>)</i>	Fig. 5G
DY31653	h?	<i>ura4-D18 atg38Δ::kanMX pho8Δ::kanMX leu1-32::41nmt1p-pho8Δ60(<i>S.cerevesiae</i>)-GFP(<i>leu1+</i>) ars1::nmt1p-atg38F157A-mCherry-vps34(<i>ura4+</i>)</i>	Fig. 5G
DY36366	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg38(<i>leu1+</i>) ars1::41nmt1p-pil1-mCherry-vps15(<i>ura4+</i>)</i>	Fig. 6A,B, S4C,D
DY43605	h?	<i>ura4-D18 41nmt1p-CFP-vps34::hphMX leu1-32::41nmt1p-GFP-atg38(<i>leu1+</i>) ars1::41nmt1p-pil1-mCherry-vps15(<i>ura4+</i>)</i>	Fig. 6A,B
DY32233	h-	<i>ura4-D18 leu1-32::41nmt1p-pil1-mCherry-atg38(<i>leu1+</i>) ars1::41nmt1p-GFP-vps15(<i>ura4+</i>)</i>	Fig. 6C,D
DY33372	h-	<i>ura4-D18 41nmt1p-CFP-vps34::hphMX leu1-32::41nmt1p-pil1-mCherry-atg38(<i>leu1+</i>) ars1::41nmt1p-GFP-vps15(<i>ura4+</i>)</i>	Fig. 6C,D
DY33590	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(<i>leu1+</i>) ars1::41nmt1p-pil1-mCherry-vps34(1-250)(<i>ura4+</i>)</i>	Fig. 6E,F
DY33593	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(<i>leu1+</i>) ars1::41nmt1p-pil1-mCherry-vps34(251-801)(<i>ura4+</i>)</i>	Fig. 6E,F
DY33585	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg38(<i>leu1+</i>) ars1::41nmt1p-pil1-mCherry-vps34(1-250)(<i>ura4+</i>)</i>	Fig. 6G,H
DY33587	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg38(<i>leu1+</i>) ars1::41nmt1p-pil1-mCherry-vps34(251-801)(<i>ura4+</i>)</i>	Fig. 6G,H
DY36282	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(<i>leu1+</i>) ars1::41nmt1p-pil1-mCherry-atg14(<i>ura4+</i>)</i>	Fig. 7A,B, S5C,D
DY36694	h+	<i>ura4-D18 his3::41nmt1p-CFP-atg6(<i>his3- hphMX</i>) leu1-32::41nmt1p-GFP-vps15(<i>leu1+</i>) ars1::41nmt1p-pil1-mCherry-atg14(<i>ura4+</i>)</i>	Fig. 7A,B

DY36996	h?	<i>vps34Δ::kanMX ura4-D18 his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. 7A,B
DY36534	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. 7C,D, S6A,B
DY36697	h+	<i>ura4-D18 his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. 7C,D
DY36999	h?	<i>vps34Δ::kanMX ura4-D18 his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. 7C,D
DY36352	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. 7E,F, S5A,B
DY36779	h+	<i>ura4-D18 his3::41nmt1p-CFP-atg14(his3- hphMX) leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. 7E,F
DY36782	h+	<i>ura4-D18 his3::41nmt1p-CFP-vps38(his3- hphMX) leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. 7E,F
DY36711	h-	<i>ura4-D18 his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-vps34(ura4+)</i>	Fig. 8A,B
DY37873	h?	<i>ura4-D18 41nmt1p-13Myc-vps15::hphMX his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-vps34(ura4+)</i>	Fig. 8A,B
DY36714	h-	<i>ura4-D18 his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-vps34(ura4+)</i>	Fig. 8C,D
DY37877	h?	<i>ura4-D18 41nmt1p-13Myc-vps15::hphMX his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-vps34(ura4+)</i>	Fig. 8C,D
DY44733	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pil1-mCherry(ura4+)</i>	Fig. S1A,B
DY44735	h-	<i>ura4-D18 leu1-32::41nmt1p-atg1-GFP(leu1+) ars1::41nmt1p-pil1-mCherry(ura4+)</i>	Fig. S1A,B
DY44737	h-	<i>ura4-D18 leu1-32::41nmt1p-atg11-GFP(leu1+) ars1::41nmt1p-pil1-mCherry(ura4+)</i>	Fig. S1A,B
DY44739	h-	<i>ura4-D18 leu1-32::41nmt1p-atg13-GFP(leu1+) ars1::41nmt1p-pil1-mCherry(ura4+)</i>	Fig. S1A,B
DY44741	h-	<i>ura4-D18 leu1-32::41nmt1p-atg17-GFP(leu1+) ars1::41nmt1p-pil1-mCherry(ura4+)</i>	Fig. S1A,B
DY44743	h-	<i>ura4-D18 leu1-32::41nmt1p-atg101-GFP(leu1+) ars1::41nmt1p-pil1-mCherry(ura4+)</i>	Fig. S1A,B
DY44767	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pil1-mCherry-atg1(ura4+)</i>	Fig. S1C,D
DY44769	h-	<i>ura4-D18 leu1-32::41nmt1p-atg1-GFP(leu1+) ars1::41nmt1p-pil1-mCherry-atg1(ura4+)</i>	Fig. S1C,D

DY44770	h-	<i>ura4-D18 leu1-32::41nmt1p-atg11-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg1(ura4+)</i>	Fig. S1C,D
DY44771	h-	<i>ura4-D18 leu1-32::41nmt1p-atg13-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg1(ura4+)</i>	Fig. S1C,D
DY44773	h-	<i>ura4-D18 leu1-32::41nmt1p-atg17-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg1(ura4+)</i>	Fig. S1C,D, S3A,B
DY44775	h-	<i>ura4-D18 leu1-32::41nmt1p-atg101-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg1(ura4+)</i>	Fig. S1C,D
DY44756	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg11(ura4+)</i>	Fig. S1E,F
DY44758	h-	<i>ura4-D18 leu1-32::41nmt1p-atg1-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg11(ura4+)</i>	Fig. S1E,F
DY44759	h-	<i>ura4-D18 leu1-32::41nmt1p-atg11-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg11(ura4+)</i>	Fig. S1E,F
DY44761	h-	<i>ura4-D18 leu1-32::41nmt1p-atg13-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg11(ura4+)</i>	Fig. S1E,F, S3E,F
DY44762	h-	<i>ura4-D18 leu1-32::41nmt1p-atg17-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg11(ura4+)</i>	Fig. S1E,F
DY44764	h-	<i>ura4-D18 leu1-32::41nmt1p-atg101-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg11(ura4+)</i>	Fig. S1E,F
DY44721	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg13(ura4+)</i>	Fig. S2A,B
DY44723	h-	<i>ura4-D18 leu1-32::41nmt1p-atg1-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg13(ura4+)</i>	Fig. S2A,B
DY44725	h-	<i>ura4-D18 leu1-32::41nmt1p-atg11-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg13(ura4+)</i>	Fig. S2A,B, S3G,H
DY44727	h-	<i>ura4-D18 leu1-32::41nmt1p-atg13-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg13(ura4+)</i>	Fig. S2A,B
DY44729	h-	<i>ura4-D18 leu1-32::41nmt1p-atg17-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg13(ura4+)</i>	Fig. S2A,B
DY44731	h-	<i>ura4-D18 leu1-32::41nmt1p-atg101-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg13(ura4+)</i>	Fig. S2A,B
DY44697	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg101(ura4+)</i>	Fig. S2C,D
DY44699	h-	<i>ura4-D18 leu1-32::41nmt1p-atg1-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg101(ura4+)</i>	Fig. S2C,D
DY44701	h-	<i>ura4-D18 leu1-32::41nmt1p-atg11-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg101(ura4+)</i>	Fig. S2C,D
DY44703	h-	<i>ura4-D18 leu1-32::41nmt1p-atg13-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg101(ura4+)</i>	Fig. S2C,D
DY44705	h-	<i>ura4-D18 leu1-32::41nmt1p-atg17-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg101(ura4+)</i>	Fig. S2C,D
DY44707	h-	<i>ura4-D18 leu1-32::41nmt1p-atg101-GFP(leu1+) ars1::41nmt1p-pill-mCherry-atg101(ura4+)</i>	Fig. S2C,D

DY48488	h?	<i>atg13Δ::kanMX ura4-D18 leu1-32::41nmt1p-atg17-GFP(leu1+)</i> <i>ars1::41nmt1p-pil1-mCherry-atg1(ura4+)</i>	S3A,B
DY48486	h?	<i>atg13Δ::kanMX ura4-D18 leu1-32::41nmt1p-atg1-GFP(leu1+)</i> <i>ars1::41nmt1p-pil1-mCherry-atg17(ura4+)</i>	S3A,B
DY46360	h?	<i>atg1Δ::natMX ura4-D18 leu1-32::41nmt1p-atg13-GFP(leu1+)</i> <i>ars1::41nmt1p-pil1-mCherry-atg11(ura4+)</i>	Fig. S3E,F
DY46358	h?	<i>atg1Δ::natMX ura4-D18 leu1-32::41nmt1p-atg11-GFP(leu1+)</i> <i>ars1::41nmt1p-pil1-mCherry-atg13(ura4+)</i>	Fig. S3G,H
DY32961	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry(ura4+)</i>	Fig. S4A,B
DY38750	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry(ura4+)</i>	Fig. S4A,B
DY33173	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg6(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry(ura4+)</i>	Fig. S4A,B
DY32957	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg14(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry(ura4+)</i>	Fig. S4A,B
DY32959	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg38(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry(ura4+)</i>	Fig. S4A,B
DY32963	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps38(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry(ura4+)</i>	Fig. S4A,B
DY39067	h?	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry(ura4+)</i>	Fig. S4A,B
DY36368	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps15(ura4+)</i>	Fig. S4C,D
DY36370	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps15(ura4+)</i>	Fig. S4C,D, S7A,B
DY36360	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg6(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps15(ura4+)</i>	Fig. S4C,D, S8A,B
DY36362	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg14(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps15(ura4+)</i>	Fig. S4C,D, S8C,D
DY36373	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps38(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps15(ura4+)</i>	Fig. S4C,D, S8E,F
DY39070	h?	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps15(ura4+)</i>	Fig. S4C,D
DY33191	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps34(ura4+)</i>	Fig. S4E,F, S7C,D
DY37293	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps34(ura4+)</i>	Fig. S4E,F
DY33370	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg6(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps34(ura4+)</i>	Fig. S4E,F
DY33186	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg14(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps34(ura4+)</i>	Fig. S4E,F
DY33189	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg38(leu1+)</i> <i>ars1::41nmt1p-pil1-</i> <i>mCherry-vps34(ura4+)</i>	Fig. S4E,F, S7E,F

DY33193	h-	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-vps34(ura4+)</i>	Fig. S4E,F
DY39073	h?	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pil1-mCherry-vps34(ura4+)</i>	Fig. S4E,F
DY36354	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S5A,B
DY36342	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg6(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S5A,B
DY36344	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S5A,B, S7I,J
DY36350	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg38(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S5A,B
DY36357	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S5A,B, S7M,N
DY36653	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S5A,B
DY36285	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S5C,D
DY36273	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg6(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S5C,D, S7K,L
DY36276	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S5C,D
DY36280	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg38(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S5C,D, S8K,L
DY36287	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S5C,D
DY39076	h?	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S5C,D
DY38186	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-atg38(ura4+)</i>	Fig. S5E,F
DY38190	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+) ars1::41nmt1p-pil1-mCherry-atg38(ura4+)</i>	Fig. S5E,F, S7G,H
DY38180	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg6(leu1+) ars1::41nmt1p-pil1-mCherry-atg38(ura4+)</i>	Fig. S5E,F
DY38182	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-atg38(ura4+)</i>	Fig. S5E,F
DY38184	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg38(leu1+) ars1::41nmt1p-pil1-mCherry-atg38(ura4+)</i>	Fig. S5E,F
DY38188	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-atg38(ura4+)</i>	Fig. S5E,F
DY39079	h?	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pil1-mCherry-atg38(ura4+)</i>	Fig. S5E,F
DY36535	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. S6A,B

DY36536	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. S6A,B, S8I,J
DY36524	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg6(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. S6A,B, S7O,P
DY36527	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. S6A,B
DY36532	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-atg38(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. S6A,B
DY36539	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. S6A,B
DY39082	h?	<i>ura4-D18 leu1-32::41nmt1p-GFP(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. S6A,B
DY48496	h?	<i>ura4-D18 his3::41nmt1p-CFP-atg14(his3- hphMX) leu1-32::pDUAL-vector(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S6C,D
DY48498	h?	<i>ura4-D18 his3::41nmt1p-CFP-atg14(his3- hphMX) leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S6C,D
DY48500	h?	<i>ura4-D18 his3::41nmt1p-CFP-atg14(his3- hphMX) leu1-32::nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S6C,D
DY48502	h?	<i>ura4-D18 his3::41nmt1p-CFP-vps38(his3- hphMX) leu1-32::pDUAL-vector(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S6E,F
DY48504	h?	<i>ura4-D18 his3::41nmt1p-CFP-vps38(his3- hphMX) leu1-32::41nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S6E,F
DY48506	h?	<i>ura4-D18 his3::41nmt1p-CFP-vps38(his3- hphMX) leu1-32::nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S6E,F
DY37751	h?	<i>atg6Δ::kanMX atg14Δ::kanMX atg38Δ::kanMX vps38Δ::natMX ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+) ars1::41nmt1p-pil1-mCherry-vps15(ura4+)</i>	Fig. S7A,B
DY37753	h?	<i>atg6Δ::kanMX atg14Δ::kanMX atg38Δ::kanMX vps38Δ::natMX ura4-D18 leu1-32::41nmt1p-GFP-vps15(leu1+) ars1::41nmt1p-pil1-mCherry-vps34(ura4+)</i>	Fig. S7C,D
DY38826	h?	<i>vps15Δ::natMX atg6Δ::kanMX atg14Δ::hphMX ura4-D18 leu1-32::41nmt1p-GFP-atg38(leu1+) ars1::41nmt1p-pil1-mCherry-vps34(ura4+)</i>	Fig. S7E,F
DY38825	h?	<i>vps15Δ::natMX atg6Δ::kanMX atg14Δ::hphMX ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+) ars1::41nmt1p-pil1-mCherry-atg38(ura4+)</i>	Fig. S7G,H
DY38814	h?	<i>vps15Δ::kanMX vps34Δ::natMX atg38Δ::hphMX ura4-D18 leu1-32::41nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S7I,J
DY38819	h?	<i>vps15Δ::kanMX vps34Δ::natMX atg38Δ::hphMX ura4-D18 leu1-32::41nmt1p-GFP-atg6(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S7K,L

DY37494	h?	<i>vps15Δ::kanMX vps34Δ::natMX ura4-D18 leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-atg6(ura4+)</i>	Fig. S7M,N
DY37491	h?	<i>vps15Δ::kanMX vps34Δ::natMX ura4-D18 leu1-32::41nmt1p-GFP-atg6(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. S7O,P
DY39042	h?	<i>ura4-D18 41nmt1p-CFP-vps34::hphMX leu1-32::41nmt1p-GFP-atg6(leu1+) ars1::41nmt1p-pil1-mCherry-vps15(ura4+)</i>	Fig. S8A,B
DY39045	h?	<i>ura4-D18 41nmt1p-CFP-vps34::hphMX leu1-32::41nmt1p-GFP-atg14(leu1+) ars1::41nmt1p-pil1-mCherry-vps15(ura4+)</i>	Fig. S8C,D
DY39049	h?	<i>ura4-D18 41nmt1p-CFP-vps34::hphMX leu1-32::41nmt1p-GFP-vps38(leu1+) ars1::41nmt1p-pil1-mCherry-vps15(ura4+)</i>	Fig. S8E,F
DY36284	h+	<i>ura4-D18 leu1-32::41nmt1p-GFP-vps34(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S8G,H
DY36706	h+	<i>ura4-D18 his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-vps34(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S8G,H
DY36709	h+	<i>ura4-D18 his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-vps34(leu1+) ars1::41nmt1p-pil1-mCherry-vps38(ura4+)</i>	Fig. S8I,J
DY39090	h?	<i>ura4-D18 his3::41nmt1p-CFP-atg6(his3- hphMX) leu1-32::41nmt1p-GFP-atg38(leu1+) ars1::41nmt1p-pil1-mCherry-atg14(ura4+)</i>	Fig. S8K,L

Table S2. Plasmids used in this study

Addgene ID	Name	Descriptive name	Description
174012	pDB4924	pDUAL- <i>41nmt1</i> p-Pil1-mCherry	pDUAL plasmid expressing Pil1-mCherry from <i>41nmt1</i> promoter
174016	pDB4925	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg38(161-190)	pDUAL plasmid expressing Pil1-mCherry-Atg38(161-190) from <i>41nmt1</i> promoter
	pDB4926	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg38(161-190) ^{F178A}	pDUAL plasmid expressing Pil1-mCherry-Atg38(161-190) ^{F178A} from <i>41nmt1</i> promoter
	pDB4927	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg38(161-190) ^{V181A}	pDUAL plasmid expressing Pil1-mCherry-Atg38(161-190) ^{V181A} from <i>41nmt1</i> promoter
	pDB4928	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg38(161-190) ^{F178A V181A}	pDUAL plasmid expressing Pil1-mCherry-Atg38(161-190) ^{F178A V181A} from <i>41nmt1</i> promoter
174017	pDB4658	pDUAL- <i>41nmt1</i> p-GFP-Atg8	pDUAL plasmid expressing GFP-Atg8 from <i>41nmt1</i> promoter
	pDB4659	pDUAL- <i>41nmt1</i> p-GFP-Atg8 ^{P52A R67A}	pDUAL plasmid expressing GFP-Atg8 ^{P52A R67A} from <i>41nmt1</i> promoter
	pDB4929	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg8(1-115)	pDUAL plasmid expressing Pil1-mCherry-Atg8(1-115) from <i>41nmt1</i> promoter
	pDB4930	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Xrc4	pDUAL plasmid expressing Pil1-mCherry-Xrc4 from <i>41nmt1</i> promoter
	pDB4931	pDUAL- <i>41nmt1</i> p-Lig4-GFP	pDUAL plasmid expressing Lig4-GFP from <i>41nmt1</i> promoter
	pDB4932	pDUAL- <i>41nmt1</i> p-Lig4(741-913)-GFP	pDUAL plasmid expressing Lig4(741-913)-GFP from <i>41nmt1</i> promoter
	pDB4933	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg1	pDUAL plasmid expressing Pil1-mCherry-Atg1 from <i>41nmt1</i> promoter
	pDB4934	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg11	pDUAL plasmid expressing Pil1-mCherry-Atg11 from <i>41nmt1</i> promoter
	pDB4935	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg13	pDUAL plasmid expressing Pil1-mCherry-Atg13 from <i>41nmt1</i> promoter
	pDB4936	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg17	pDUAL plasmid expressing Pil1-mCherry-Atg17 from <i>41nmt1</i> promoter
	pDB4937	pDUAL- <i>41nmt1</i> p-Pil1-mCherry-Atg101	pDUAL plasmid expressing Pil1-mCherry-Atg101 from <i>41nmt1</i> promoter
	pDB4938	pDUAL- <i>41nmt1</i> p-Atg1-GFP	pDUAL plasmid expressing Atg1-GFP from <i>41nmt1</i> promoter
	pDB4939	pDUAL- <i>41nmt1</i> p-Atg11-GFP	pDUAL plasmid expressing Atg11-GFP from <i>41nmt1</i> promoter
	pDB4940	pDUAL- <i>41nmt1</i> p-Atg13-GFP	pDUAL plasmid expressing Atg13-GFP from <i>41nmt1</i> promoter

	pDB4941	pDUAL- <i>41nmt1p</i> -Atg17-GFP	pDUAL plasmid expressing Atg17-GFP from <i>41nmt1</i> promoter
	pDB4942	pDUAL- <i>41nmt1p</i> -Atg101-GFP	pDUAL plasmid expressing Atg101-GFP from <i>41nmt1</i> promoter
	pDB4943	pDUAL- <i>41nmt1p</i> -Pil1-mCherry-Vps15	pDUAL plasmid expressing Pil1-mCherry-Vps15 from <i>41nmt1</i> promoter
	pDB4944	pDUAL- <i>41nmt1p</i> -Pil1-mCherry-Vps34	pDUAL plasmid expressing Pil1-mCherry-Vps34 from <i>41nmt1</i> promoter
	pDB4945	pDUAL- <i>41nmt1p</i> -Pil1-mCherry-Atg6	pDUAL plasmid expressing Pil1-mCherry-Atg6 from <i>41nmt1</i> promoter
174018	pDB4946	pDUAL- <i>41nmt1p</i> -Pil1-mCherry-Atg14	pDUAL plasmid expressing Pil1-mCherry-Atg14 from <i>41nmt1</i> promoter
	pDB4947	pDUAL- <i>41nmt1p</i> -Pil1-mCherry-Atg38	pDUAL plasmid expressing Pil1-mCherry-Atg38 from <i>41nmt1</i> promoter
174019	pDB4948	pDUAL- <i>41nmt1p</i> -Pil1-mCherry-Vps38	pDUAL plasmid expressing Pil1-mCherry-Vps38 from <i>41nmt1</i> promoter
	pDB4949	pDUAL- <i>41nmt1p</i> -Pil1-mCherry-Vps34(1-250)	pDUAL plasmid expressing Pil1-mCherry-Vps34(1-250) from <i>41nmt1</i> promoter
	pDB4950	pDUAL- <i>41nmt1p</i> -Pil1-mCherry-Vps34(251-801)	pDUAL plasmid expressing Pil1-mCherry-Vps34(251-801) from <i>41nmt1</i> promoter
	pDB4951	pDUAL- <i>41nmt1p</i> -GFP-Vps15	pDUAL plasmid expressing GFP-Vps15 from <i>41nmt1</i> promoter
	pDB4952	pDUAL- <i>41nmt1p</i> -GFP-Vps34	pDUAL plasmid expressing GFP-Vps34 from <i>41nmt1</i> promoter
174020	pDB4953	pDUAL- <i>41nmt1p</i> -GFP-Atg6	pDUAL plasmid expressing GFP-Atg6 from <i>41nmt1</i> promoter
	pDB4954	pDUAL- <i>41nmt1p</i> -GFP-Atg14	pDUAL plasmid expressing GFP-Atg14 from <i>41nmt1</i> promoter
	pDB4955	pDUAL- <i>41nmt1p</i> -GFP-Atg38	pDUAL plasmid expressing GFP-Atg38 from <i>41nmt1</i> promoter
	pDB4956	pDUAL- <i>41nmt1p</i> -GFP-Vps38	pDUAL plasmid expressing GFP-Vps38 from <i>41nmt1</i> promoter
	pDB4957	pHIS3H- <i>41nmt1p</i> -CFP-Vps34	pHIS3H plasmid expressing CFP-Vps34 from <i>41nmt1</i> promoter
174014	pDB4958	pHIS3H- <i>41nmt1p</i> -CFP-Atg6	pHIS3H plasmid expressing CFP-Atg6 from <i>41nmt1</i> promoter
	pDB4959	pHIS3H- <i>41nmt1p</i> -CFP-Atg14	pHIS3H plasmid expressing CFP-Atg14 from <i>41nmt1</i> promoter
	pDB4960	pHIS3H- <i>41nmt1p</i> -CFP-Vps38	pHIS3H plasmid expressing CFP-Vps38 from <i>41nmt1</i> promoter
174015	pDB4961	pHIS3H- <i>41nmt1p</i> -13Myc-Vps15	pHIS3H plasmid expressing 13Myc-Vps15 from <i>41nmt1</i> promoter
	pDB4972	pDUAL- <i>nmt1p</i> -Atg38-mCherry	pDUAL plasmid expressing Atg38-mCherry from <i>nmt1</i> promoter

	pDB4973	pDUAL- <i>nmt1p</i> -Atg38 ^{F157A} -mCherry	pDUAL plasmid expressing Atg38 ^{F157A} -mCherry from <i>nmt1</i> promoter
	pDB4974	pDUAL- <i>nmt1p</i> -Atg38-mCherry-Vps34	pDUAL plasmid expressing Atg38-mCherry-Vps34 from <i>nmt1</i> promoter
	pDB4975	pDUAL- <i>nmt1p</i> -Atg38 ^{F157A} -mcherry-vps34	pDUAL plasmid expressing Atg38 ^{F157A} -mCherry-Vps34 from <i>nmt1</i> promoter
	pDB5128	pDUAL- <i>nmt1p</i> -GFP-Atg14	pDUAL plasmid expressing GFP-Atg14 from <i>nmt1</i> promoter
	pDB5129	pDUAL- <i>nmt1p</i> -GFP-Vps38	pDUAL plasmid expressing GFP-Vps38 from <i>nmt1</i> promoter
174013	pDB1751	pDUAL- <i>41nmt1p</i> -GFP	pDUAL plasmid expressing GFP from <i>41nmt1</i> promoter