S1 Table. Strains used for this study.

Strain	Description	Genotype	Source	Figure
AN120	Wild-type	*MAT* a/*MAT* α *his3* Δ*SK*/*his3* Δ*SK ura3*/*ura3 trp1::hisG*/*trp1::hisG leu2*/*leu2 arg4-NspI*/*ARG4 lys2*/*lys2 ho* Δ*::LYS2*/*ho* Δ*::LYS2 rme1::LEU2*/*RME1*	Ref. 1	Figure 1
TC545	*spo73* Δ	AN120 *spo73::kanMX6*/*spo73::kanMX6*	Ref. 2	Figure 1
AH109	Strain for yeast two-hybrid assay	*MAT* a *trp1-901 leu2-3, 112 ura3-52 his3-200 gal4* Δ *gal80* Δ *LYS2::GAL1* $_{UAS}$*-GAL1* $_{TATA}$*-HIS3 GAL2* $_{UAS}$*-GAL2* $_{TATA}$*-ADE2 URA3::MEL1* $_{UAS}$*-MEL1* $_{TATA}$*-lacZ*	Clontech	Figure 1
AAY102	*stt4-4*	SEY6210 (*MAT* α *leu2-3, 112 ura3-52 his3-* Δ*200 trp1-* Δ*901 lys2-801 suc2-* Δ*9*) *stt4::HIS3MX6* carrying pRS415-stt4-4 (*LEU2 CEN6 stt4-4*)	Ref. 3	Sup. Figure 1
TNY168	Wild-type *NDT80-B/R*	AN120 *AUR1::* P_{ACT1}*-LexA-ER-haVP16::AUR1-C*/*AUR1::* P_{ACT1}*-LexA-ER-haVP16::AUR1-C ndt80::hphNT1::* $P_{4\times lexA}$*-9×Myc-NDT80*/*ndt80::hphNT1::* $P_{4\times lexA}$*-9×Myc-NDT80*	This study	Figure 3
TNY150	*spo73* Δ *NDT80-B/R*	TNY168 *spo73::kanMX6*/*spo73::kanMX6*	This study	Figure 3
TNY502	*spo73* Δ *NDT80* -B/R P_{CLB2}*-degron-stt4*	TNY168 *spo73::kanMX6*/*spo73::kanMX6 his3* Δ*SK::* P_{ADH1}*-mod-OsTIR1::HIS3*/*his3* Δ*SK::* P_{ADH1}*-mod-OsTIR1::HIS3 stt4::natNT2::* P_{CLB2}*-degron-stt4*/*stt4::natNT2::* P_{CLB2}*-degron-stt4*	This study	Figure 3
TNY517	*spo73* Δ *NDT80* -B/R P_{CLB2}*-degron-stt4* P_{ADH1}*-GFP-STT4*	TNY502 *ura3::* P_{ADH1}*-GFP-STT4::URA3*/*ura3*	This study	Figure 3
TNY198	*spo73* Δ *NDT80* -B/R *mKate2-SPO20* $^{51-91}$	TNY150 *his3* Δ*SK::* P_{TEF1}*-mKate2-SPO20* $^{51-91}$ *::HIS3*/*his3* Δ*SK*	This study	Figure 3
TNY518	*spo73* Δ *NDT80* -B/R P_{CLB2}*-degron-stt4 mKate2-SPO20* $^{51-91}$	TNY502 P_{TEF1}*-mKate2-SPO20* $^{51-91}$ *::URA3*/*ura3*	This study	Figure 3
TNY578	*spo73* Δ *NDT80-B/R* $P_{4\times lexA}$*-3×mK-SPO20* $^{51-91}$*-SAC1* $^{2-517}$	TNY150 *ura3::* $P_{4\times lexA}$*-3×mK-SPO20* $^{51-91}$*-SAC1* $^{2-517}$ *::URA3*/*ura3*	This study	Figure 4
TNY643	Wild-type P_{TDH3}*-GFP-P4M-SidM SEC7-mRFP*	AN120 *ura3::* P_{TDH3}*-GFP-P4M-SidM::URA3*/*ura3 trp1::hisG::* P_{ADH1}*-SEC7-mRFP*/*trp1::hisG*	This study	Sup. Figure 3
AAY104	*pik1-83*	SEY6210 (*MAT* α *leu2-3, 112 ura3-52 his3-* Δ*200 trp1-* Δ*901 lys2-801 suc2-* Δ*9*) *pik-83::HIS3MX6* carrying pRS314-pik1-83 (*LEU2 CEN6 pik1-83*)	Ref. 3	Sup. Figure 4
TNY642	Wild-type P_{TDH3}*-GFP-OSH2-P4M SEC7-mRFP*	AN120 *ura3::* P_{TDH3}*-GFP-OSH2-P4M::URA3*/*ura3 trp1::hisG::* P_{ADH1}*-SEC7-mRFP*/*trp1::hisG*	This study	Sup. Figure 4
TNY375	Wild-type *mKate2-SPO20* $^{51-91}$	AN120 *his3* Δ*SK::* P_{TEF1}*-mKate2-SPO20* $^{51-91}$ *::HIS3*/*his3* Δ*SK*	This study	Figure 5
TNY376	*spo73* Δ *mKate2-SPO20* $^{51-91}$	TC545 *his3* Δ*SK::* P_{TEF1}*-mKate2-SPO20* $^{51-91}$ *::HIS3*/*his3* Δ*SK*	This study	Figure 5
TNY403	*spo73* Δ *NDT80-B/R* P_{TDH3}*-GFP-OSH2-P4M mKate2-SPO20* $^{51-91}$	TNY150 *his3* Δ*SK::* P_{TDH3}*-GFP-OSH2-P4M::HIS3*/*his3* Δ*SK::* P_{TEF1}*-mKate2-SPO20* $^{51-91}$ *::HIS3*	This study	Figure 5
TNY421	*spo73* Δ *NDT80-B/R* P_{TDH3}*-GFP-OSH2-P4M* $P_{4\times lexA}$*-3×mK-SPO20* $^{51-91}$*-SAC1* $^{2-517}$	TNY150 *his3* Δ*SK::* P_{TDH3}*-GFP-OSH2-P4M::HIS3*/*his3* Δ*SK ura3::* $P_{4\times lexA}$*-3×mK-SPO20* $^{51-91}$*-SAC1* $^{2-517}$ *::URA3*/*ura3*	This study	Figure 5
TNY429	*spo73* Δ *NDT80-B/R* P_{TDH3}*-GFP-OSH2-P4M* $P_{4\times lexA}$*-3×mK-SPO20* $^{51-91}$*-SAC1* $^{2-517}$*-PD*	TNY150 *his3* Δ*SK::* P_{TDH3}*-GFP-OSH2-P4M::HIS3*/*his3* Δ*SK ura3::* $P_{4\times lexA}$*-3×mK-SPO20* $^{51-91}$*-SAC1* $^{2-517}$*-PD::URA3*/*ura3*	This study	Figure 5
TNY473	Wild-type *NDT80* -B/R P_{CLB2}*-degron-stt4*	TNY168 *his3* Δ*SK::* P_{ADH1}*-mod-OsTIR1::HIS3*/*his3* Δ*SK::* P_{ADH1}*-mod-OsTIR1::HIS3 stt4::natNT2::* P_{CLB2}*-degron-stt4*/*stt4::natNT2::* P_{CLB2}*-degron-stt4*	This study	Figure 6

S1 Table. Strains used for this study (continued).

Strain	Description	Genotype	Source	Figure
TNY519	Wild-type *NDT80*-B/R P_{CLB2}-*degron-stt4* $P_{4\times lexA}$-*3*×*mK-SPO20*$^{51-91}$-*SAC1*$^{2-517}$	TNY473 *ura3::* $P_{4\times lexA}$-*3*×*mK-SPO20*$^{51-91}$-*SAC1*$^{2-517}$ *::URA3/ura3*	This study	Figure 6
TNY197	Wild-type *NDT80*-B/R *mKate2-SPO20*$^{51-91}$	TNY168 *his3* Δ*SK::* P_{TEF1}-*mKate2-SPO20*$^{51-91}$ *::HIS3 /his3* Δ*SK*	This study	Figure 6
TC581	*spo71* Δ	AN120 *spo71::kanMX6 /spo71::kanMX6*	Ref. 2	Figure 7
TNY637	*spo71* Δ *spo73* Δ	AN120 *spo71::natNT2 /spo71::natNT2 spo73::kanMX6 /spo73::kanMX6*	This study	Figure 7
TC572	*vps13* Δ	AN120 *vps13::kanMX6 /vps13::kanMX6*	Ref. 2	Figure 7
AN117-4B	Wild-type (*MAT*α)	*MAT*α *his3* Δ*SK ura3 trp1::hisG leu2 arg4-NspI lys2 ho* Δ*::LYS2 rme1::LEU2*	Ref. 1	-
AN117-16Da	Wild-type (*MAT*a)	*MAT*a *his3* Δ*SK ura3 trp1::hisG leu2 lys2 ho* Δ*::LYS2*	Ref. 1	-
TNY475	*VPS13^TRP1* (*MAT*α)	AN117-4B *VPS13::TRP1*$_{1360}$	This study	-
YFY30	*VPS13^GFPEnvy-loxP-HIS3MX6-loxP* (*MAT*α)	AN117-4B *VPS13::GFPEnvy*$_{1360}$*-loxP-HIS3MX6-loxP*	This study	-
YFY29	*VPS13^GFPEnvy-loxP-HIS3MX6-loxP* (*MAT*a)	AN117-16Da *VPS13::GFPEnvy*$_{1360}$*-loxP-HIS3MX6-loxP*	This study	-
YFY49	*VPS13^GFPEnvy* (*MAT*α)	AN117-4B *VPS13::GFPEnvy*$_{1360}$	This study	-
YFY39	*VPS13^GFPEnvy* (*MAT*a)	AN117-16Da *VPS13::GFPEnvy*$_{1360}$	This study	-
YFY57	Wild-type *VPS13^GFPEnvy*	AN120 *VPS13::GFPEnvy*$_{1360}$*/VPS13::GFPEnvy*$_{1360}$	This study	Figure 7
YFY83	Wild-type *VPS13^GFPEnvy mKate2-SPO20*$^{51-91}$	YFY57 *his3* Δ*SK::* P_{TEF1}-*mKate2-SPO20*$^{51-91}$ *::HIS3 /his3* Δ*SK*	This study	Figure 7
YFY85	*spo73* Δ *VPS13^GFPEnvy mKate2-SPO20*$^{51-91}$	YFY83 *spo73::kanMX6/spo73::kanMX6*	This study	Figure 7
YFY84	*spo71* Δ *VPS13^GFPEnvy mKate2-SPO20*$^{51-91}$	YFY83 *spo71::natNT2/spo71::natNT2*	This study	Figure 7
YFY59	*spo71* Δ *VPS13^GFPEnvy*	AN120 *VPS13::GFPEnvy*$_{1360}$*/VPS13::GFPEnvy*$_{1360}$ *spo71::natNT2/spo71::natNT2*	This study	Figure 7
TC544	*gip1* Δ	AN120 *gip1::kanMX6 /gip1::kanMX6*	Ref. 4	Figure 8
TNY522	Wild-type *IST2-GFP mKate2-SPO20*$^{51-91}$	AN120 *his3* Δ*SK::* P_{TEF1}-*mKate2-SPO20*$^{51-91}$ *::HIS3 /his3* Δ*SK ura3::IST2-GFP::URA3/ura3*	This study	Figure 8
TNY524	*spo73* Δ *IST2-GFP mKate2-SPO20*$^{51-91}$	TNY522 *spo73::kanMX6/spo73::kanMX6*	This study	Figure 8
TNY544	*spo71* Δ *IST2-GFP mKate2-SPO20*$^{51-91}$	TNY522 *spo71::kanMX6/spo71::kanMX6*	This study	Figure 8
TNY545	*vps13* Δ *IST2-GFP mKate2-SPO20*$^{51-91}$	TNY522 *vps13::kanMX6/vps13::kanMX6*	This study	Figure 8
TNY546	*gip1* Δ *IST2-GFP mKate2-SPO20*$^{51-91}$	TNY522 *gip1::kanMX6/gip1::kanMX6*	This study	Figure 8
TNY659	Wild-type *TCB2-GFP mKate2-SPO20*$^{51-91}$	AN120 *his3* Δ*SK::* P_{TEF1}-*mKate2-SPO20*$^{51-91}$ *::HIS3 /his3* Δ*SK TCB2::GFPEnvy::HIS3MX6/TCB2*	This study	Sup. Figure 6
TNY660	*spo73* Δ *TCB2-GFP mKate2-SPO20*$^{51-91}$	TNY522 *spo73::kanMX6/spo73::kanMX6*	This study	Sup. Figure 6
TC611	*spo73* Δ *IST2-GFP*	TC545 *ura3::IST2-GFP::URA3/ura3*	This study	Sup. Figure 6
TC609	*spo71* Δ *IST2-GFP*	TC581 *ura3::IST2-GFP::URA3/ura3*	This study	Sup. Figure 6

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