Table S1. Genotypes of yeast strains used in this study

Strain:	Genotype:	Source
UCC8650	*MATa, his3Δ1, leu2Δ0, lys2Δ0, ura3Δ0, hoΔ::PSCW11-cre-EBD78-NATMX*	D. Gottschling
JRY527 (s288c)	*MATa, ade2-101, lys2, ura3-52, his3Δ200, met2*	Lab collection
JRY4012 (W303-1a)	*MATa, his3, leu2, lys2, trp1, ura3, can1*	R. Rothstein/ Lab collection
JRY8822 (S. bayanus)	*MATa, lys2Δ, ura3Δ, hoΔ::NAT^{MX}*	Lab collection
JRY9135 (S. paradoxus)	*MATa, lys2Δ, ura3Δ, hoΔ::NAT^{MX}*	Lab collection
JRY9628	*ADE2, lys2, TRP1, hmlα2Δ::CRE, matΔ::NatMX, ura3Δ::pGPD:loxP:yEmRFP;tCYC1:KanMX:loxP:yEGFP:tADH1*	Lab collection
JRY10759 (W303 x W303)	*ADE2, lys2, trp1-1/TRP1, HML/hmlα2Δ::CRE, ura3-1/ura3Δ::pGPD:loxP:yEmRFP;tCYC1:KanMX:loxP:yEGFP:tADH1*	This Study
JRY10762 (W303 x s288c)	*ade2-101/ADE2, lys2, TRP1, HML/hmlα2Δ::CRE, ura3-52/ura3Δ::pGPD:loxP:yEmRFP;tCYC1:KanMX:loxP:yEGFP:tADH1, his3Δ200/HIS3, met2/MET2*	This Study
JRY10765 (S. cerevisiae x S. bayanus)	*ADE2, lys2, TRP1, HML/hmlα2Δ::CRE, ura3Δ/ura3Δ::pGPD:loxP:yEmRFP;tCYC1:KanMX:loxP:yEGFP:tADH1, hoΔ::NAT^{MX}/ho*	This Study
JRY10768 (S. cerevisiae x S. paradoxus)	*ADE2, lys2, TRP1, HML/hmlα2Δ::CRE, ura3Δ/ura3Δ::pGPD:loxP:yEmRFP;tCYC1:KanMX:loxP:yEGFP:tADH1, hoΔ::NAT^{MX}/ho*	This Study
JRY10776	*MATα ADE2, lys2, TRP1, hmlα2Δ::CRE, ura3Δ::pGPD:loxP:yEmRFP;tCYC1:KanMX:loxP:yEGFP:tADH1*	This Study
JRY10779	*MATa his3 leu2 lys2 trp1 ura3 can1 sir2Δ::KAN^{MX}*	This Study
JRY10782	*MATα ADE2, lys2, TRP1, ura3Δ::pGPD:loxP:yEmRFP;tCYC1:Kan^{MX}:loxP:yEGFP:tADH1*	This Study
JRY10786	*MATα ADE2, lys2, TRP1, ura3Δ::pGPD:loxP:yEmRFP;tCYC1:Kan^{MX}:loxP:yEGFP:tADH1 hoΔ::PSCW11-cre-EBD78-NATMX*	This Study
JRY10787	*MATα ADE2, lys2, TRP1, ura3Δ::pGPD:loxP:yEmRFP;tCYC1:Kan^{MX}:loxP:yEGFP:tADH1 hoΔ::PSCW11-cre-EBD78-NATMX sir2Δ::NAT^{MX}*	This Study