

Supplemental Table 6. Yeast strains used in this study (all in the SK1 strain background)

Strain	Genotype
NHY 1804	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3</i>
NHY 3124	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 hed1Δ::kanMX⁺</i>
NHY 4096	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2- (BamHI; + ori)/X::LEU2- (NgoMIV; + ori)-URA3 dmc1Δ::kanMX4⁺</i>
NHY 3157	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 hed1Δ::kanMX⁺ dmc1Δ::kanMX4⁺</i>
NHY 2328 X NHY 2498	<i>ho::hisG⁺ ura3(ΔSma-Pst)⁺ Δade2⁺ thr4-B/THR4 lys2⁺ trp1Δ/trp1Δ cup1Δ/cup1Δ TRP1--on chr3/CUP1--on chr3 leu2-r/LEU2 GAL3+⁺ CEN3::URA3/CEN3::LYS2 can1-r/CAN1 CYH1/cyh-r CHA1/cha1::ADE2 GIT1::hphMX4</i>
NHY 3388 X NHY 3390	<i>ho::hisG⁺ ura3(ΔSma-Pst)⁺ Δade2⁺ thr4-B/THR4 lys2⁺ trp1Δ/trp1Δ cup1Δ/cup1Δ TRP1--on chr3/CUP1--on chr3 leu2-r/LEU2 GAL3+⁺ CEN3::URA3/CEN3::LYS2 can1-r/CAN1 CYH1/cyh-r CHA1/cha1::ADE2 GIT1::hphMX4 hed1Δ::kanMX4⁺</i>
NHY 4488 X NHY 4489	<i>ho::hisG⁺ ura3(ΔSma-Pst)⁺ Δade2⁺ thr4-B/THR4 lys2⁺ trp1Δ/trp1Δ cup1Δ/cup1Δ TRP1--on chr3/CUP1--on chr3 leu2-r/LEU2 GAL3+⁺ CEN3::URA3/CEN3::LYS2 can1-r/CAN1 CYH1/cyh-r CHA1/cha1::ADE2 GIT1::hphMX4 hed1Δ::kanMX4⁺ dmc1Δ::kanMX4⁺</i>
NHY 4042	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 mnd1Δ::kanMX4⁺</i>
NHY 4053	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 mnd1Δ::kanMX4⁺ hed1Δ::kanMX4⁺</i>
NHY 4181	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 hed1Δ::kanMX⁺ dmc1Δ::kanMX4⁺ mnd1Δ::kanMX4⁺</i>
NHY 1736	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2- (BamHI; + ori)/his4-X::LEU2- (NgoMIV; + ori)-URA3 Δrad51::hisG⁺</i>
NHY 3559	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 hed1Δ::kanMX⁺ Δrad51::hisG⁺</i>
NHY 3520	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 dmc1Δ::kanMX4⁺ Δrad51::hisG⁺</i>
NHY 3519	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 hed1Δ::kanMX⁺ dmc1Δ::kanMX4⁺ Δrad51::hisG⁺</i>
NHY 3944	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 mei5Δ::kanMX4⁺</i>
NHY 4031	<i>ho::hisG⁺ leu2::hisG⁺ ura3(ΔSma-Pst)⁺ HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA3 mei5Δ::kanMX4⁺ hed1Δ::kanMX4⁺</i>
NHY 4763	<i>hoΔ⁺ leu2⁺ ura3⁺ ERG1-(Sal1)/ERG1-(SpeI), HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA</i>
NHY 4765	<i>hoΔ⁺ leu2⁺ ura3⁺ ERG1-(Sal1)/ERG1-(SpeI), HIS4::LEU2-(BamHI; +ori)/his4-X::LEU2-(NgoMIV; +ori)-URA dmc1Δ::KanMX4⁺ hed1Δ::KanMX4</i>
DKB 1772	<i>ho::hisG⁺, HIS4::LEU2-(NBam)/his4X::LEU2-(NBam)-URA3, leu2::hisG⁺, ura3 (ΔPst-Sma)⁺</i>
DKB 2904	<i>ho::hisG⁺, lys2⁺, leu2::hisG⁺, dmc1Δ::ARG4⁺, HIS4::LEU2-(NBam)/his4X::LEU2-(NBam)-URA3, ura3/ura3 or URA, ARG4⁺</i>
DKB 2905	<i>ho::hisG⁺, lys2⁺, leu2::hisG⁺, HIS4::LEU2-(NBam)/his4X::LEU2-(NBam)-URA3, ura3⁺, ARG4⁺, trp⁺, hed1::KanMX4⁺</i>
DKB 2908	<i>ho::hisG⁺, lys2⁺, leu2::hisG⁺, dmc1Δ::ARG4⁺, HIS4::LEU2-(NBam)/his4X::LEU2-(NBam)-URA3, ura3⁺, ARG4⁺, hed1::KanMX4⁺, trp⁺</i>
DKB 3348	<i>ho::hisG⁺, HIS4::LEU2-(NBam)/his4X::LEU2-(NBam)-URA3, leu2::hisG⁺, ura3(ΔPst-Sma)⁺, mek1-as1⁺, hed1::KanMX4⁺, trp⁺</i>
DKB 3343	<i>ho::hisG⁺, leu2::hisG⁺, HIS4::LEU2-(NBam)/his4x::LEU2-(NBam)-URA3, ura3(ΔPst-Sma)⁺, mek1-as1⁺, lys2/LYS2</i>
DKB 3497	<i>ho::hisG⁺, his4X::LEU2-(NgoMIV+ori)-URA3/HIS4::LEU2-(BamHI; +ori), leu2::hisG⁺, ura3 (ΔPst-Sma)⁺, mek1Δ::NAT⁺</i>
DKB 3512	<i>ho::hisG⁺, his4X::LEU2-(NgoMIV+ ori)-URA3/HIS4X::LEU2-(BamHI; +ori)-ura3, leu2::hisG⁺, ura3 (ΔPst-Sma) ⁺, mek1Δ::NAT⁺, hed1::KANMX4</i>
DKB 3048	<i>ho::hisG⁺, lys2⁺, ura3⁺, leu2::hisG⁺, his4X::LEU2-(NBam)-URA3/HIS4::LEU2-(NBam), rad51Δ::hisG⁺, arg-nsp⁺</i>
DKB 3050	<i>ho::hisG/ho::LYS2, lys2⁺, ura3⁺, leu2::hisG⁺, his4X::LEU2-(NBam)-URA3/HIS4::LEU2-(NBam), trp⁺, hed1::KanMX4⁺, rad51Δ::hisG⁺, arg-nsp⁺</i>