

TABLE S1. Yeast strains

Strain Name	Genotype	Used in
WY500* (WT)	<i>MATa his3-1 leu2-0 met15-0 ura3-0 hht1-hhf1::KAN hhf2-hht2::NAT hta1-htb1::HPH hta2-htb2::NAT p[CEN URA3 HTA1-HTB1-HHT2-HHF2]</i>	Fig. 1,5
LT041 (WT snf5Δ HO-LacZ Fusion)	Isogenic to WY500, plus <i>snf5::HIS3 HO::LacZ</i>	Fig. 2
LT070 (WT snf5Δ HO-LacZ Fusion)	Isogenic to LT041; WT URA plasmid replaced with <i>p[CEN LEU2 HTA1-HTB1-HHT2-HHF2]</i>	Fig. 2
LT054 (H4 R45A +WT HO-LacZ Fusion snf5Δ)	Isogenic to LT041 plus <i>p[CEN LEU2 HTA1-HTB1-HHT2-hhf2_R45A]</i>	Fig. 2
LT063 (H3 R63A HO-LacZ Fusion snf5Δ)	Isogenic to LT041 plus <i>p[CEN LEU2 HTA1-HTB1-hht2_R63A-HHF2]</i>	Fig. 2
LT064 (H3 R83A HO-LacZ Fusion snf5Δ)	Isogenic to LT041 plus <i>p[CEN LEU2 HTA1-HTB1-hht2_R83A-HHF2]</i>	Fig. 2
LT061 (H2A R43A HO-LacZ Fusion snf5Δ)	Isogenic to LT041 plus <i>p[CEN LEU2 hta1_R4A3-HTB1-HHT2-HHF2]</i>	Fig. 2
LT052 (H2B R36A HO-LacZ Fusion snf5Δ)	Isogenic to LT041 plus <i>p[CEN LEU2 HTA1-htb1_R36A-HHT2-HHF2]</i>	Fig. 2
LT051 (H2A R78A HO-LacZ Fusion snf5Δ)	Isogenic to LT041 plus <i>p[CEN LEU2 hta1_R78A-HTB1-HHT2-HHF2]</i>	Fig. 2
LT062 (H3 R49A HO-LacZ Fusion snf5Δ)	Isogenic to LT041 plus <i>p[CEN LEU2 HTA1-HTB1-hht2_R49A-HHF2]</i>	Fig. 2
LT060 (WT SNF5 HO-LacZ Fusion)	Isogenic to WY500 plus <i>HO::LacZ</i> ; WT URA plasmid replaced with <i>p[CEN LEU2 HTA1-HTB1-HHT2-HHF2]</i>	Fig. 2
LT059 (H4 R45A +WT HO-LacZ Fusion SNF5)	Isogenic to LT060 plus <i>p[CEN URA3 HTA1-HTB1-HHT2-HHF2] p[CEN LEU2 HTA1-HTB1-HHT2-hhf2_R45A]</i>	Fig. 2
LT067 (H3 R63A HO-LacZ Fusion SNF5)	Isogenic to LT060 plus <i>p[CEN LEU2 HTA1-HTB1-hht2_R63A-HHF2]</i>	Fig. 2
LT068 (H3 R83A HO-LacZ Fusion SNF5)	Isogenic to LT060 plus <i>p[CEN LEU2 HTA1-HTB1-hht2_R83A-HHF2]</i>	Fig. 2
LT065 (H2A R43A HO-LacZ Fusion SNF5)	Isogenic to LT060 plus <i>p[CEN LEU2 hta1_R43A-HTB1-HHT2-HHF2]</i>	Fig. 2
LT057 (H2B R36A HO-LacZ Fusion SNF5)	Isogenic to LT060 plus <i>p[CEN LEU2 HTA1-htb1_R36A-HHT2-HHF2]</i>	Fig. 2

LT056 H2A R78A HO-LacZ Fusion SNF5)	Isogenic to LT060 plus p[<i>CEN LEU2 hta1_R78A-HTB1-HHT2-HHF2</i>]	Fig. 2
LT066 H3 R49A HO-LacZ Fusion SNF5)	Isogenic to LT060 plus p[<i>CEN LEU2 hta1_R78A-HTB1-hht2_R49A-HHF2</i>]	Fig. 2
WY504 (IJ400) (WT)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN LEU2 HTA1-HTB1-HHT2-HHF2</i>]	Fig. 2,3,4, S1, S2, S3, S4
YAH034 (WT Flo8-His3 Fusion)	Isogenic to WY500 plus <i>FLO8::HIS3</i> ; URA plasmid replaced with p[<i>CEN LEU2 HTA1-HTB1-HHT2-HHF2</i>]	Fig. 2
YEW2 (H4 R45H Flo8-HIS3 Fusion)	Isogenic to YAH034; URA plasmid replaced with p[<i>CEN LEU2 HTA1-HTB1-HHT2-hhf2_R45H</i>]	Fig. 2
YAH035 (H3 R63A Flo8-HIS3 Fusion)	Isogenic to YAH034; URA plasmid replaced with p[<i>CEN LEU2 HTA1-HTB1-hht2_R63A-HHF2</i>]	Fig. 2
YAH036 (H3 R83A Flo8-HIS3 Fusion)	Isogenic to YAH034; URA plasmid replaced with p[<i>CEN LEU2 HTA1-HTB1-hht2_R83A-HHF2</i>]	Fig. 2
YAH037 (H2A R43A Flo8-HIS3 Fusion)	Isogenic to YAH034; URA plasmid replaced with p[<i>CEN LEU2 hta1_R43A-HTB1-HHT2-HHF2</i>]	Fig. 2
YAH038 (H2B R36A Flo8-HIS3 Fusion)	Isogenic to YAH034; URA plasmid replaced with p[<i>CEN LEU2 HTA1-htb1_R36A-HHT2-HHF2</i>]	Fig. 2
YAH039 (H2A R78A Flo8-HIS3 Fusion)	Isogenic to YAH034; URA plasmid replaced with p[<i>CEN LEU2 hta1_R78A-HTB1-HHT2-HHF2</i>]	Fig. 2
YAH040 (H3 R49A Flo8-HIS3 Fusion)	Isogenic to YAH034; URA plasmid replaced with p[<i>CEN LEU2 HTA1-HTB1-hht2_R49A-HHF2</i>]	Fig. 2
LT019 (H3 R49A)	Isogenic to WY500; URA replaced with p[<i>CEN LEU2 HTA1-HTB1-hht2_R49A-HHF2</i>]	Fig. 3,4, S1, S2, S3
LT023 (H2A R78A)	Isogenic to WY500; URA replaced with p[<i>CEN LEU2 hta1_R78A-HTB1-HHT2-HHF2</i>]	Fig. 3,4, S1, S2, S3, S4
LT015 (H3 R63A)	Isogenic to WY500; URA replaced with p[<i>CEN LEU2 HTA1-HTB1-hht2_R63A-HHF2</i>]	Fig. 4, S1, S2, S3
LT016 (H3 R83A)	Isogenic to WY500; URA replaced with p[<i>CEN LEU2 HTA1-HTB1-hht2_R83A-HHF2</i>]	Fig. 4, S1, S2, S3
LT017 (H2A R43A)	Isogenic to WY500; URA replaced with p[<i>CEN LEU2 hta1_R43A-HTB1-HHT2-HHF2</i>]	Fig. 4, S1, S2, S3
LT018 (H2B R36A)	Isogenic to WY500; URA replaced with p[<i>CEN LEU2 HTA1-htb1_R36A-HHT2-HHF2</i>]	Fig. 4, S1, S2, S3

WY502 (<i>set2Δ</i>)	Isogenic to WY500 plus <i>set2Δ::KAN</i>	Fig. S2
RM001.1 (<i>mag1Δ</i>)	Isogenic to WY504 plus <i>mag1Δ::HIS3</i>	Fig. 4
WY471.1 (WT Gal Shutdown ΔL1)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN HIS3 HTA1-pGAL-HTB1-HHT2-HHF2</i>] p[<i>CEN LEU2 hta1_Δ39-42-HTB1-HHT2-HHF2</i>]	Fig. 5
WY471.3 (WT Gal Shutdown Leu2)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN HIS3 HTA1-pGAL-HTB1-HHT2-HHF2</i>] p[<i>CEN LEU2</i>]	Fig. 5
WY471.18 (WT Gal Shutdown H2B R36A)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN HIS3 HTA1-pGAL-HTB1-HHT2-HHF2</i>] p[<i>CEN LEU2 HTA1-htb1_R36A-HHT2-HHF2</i>]	Fig. 5
WY471.23 (WT Gal Shutdown H2A R78A)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN HIS3 HTA1-pGAL-HTB1-HHT2-HHF2</i>] p[<i>CEN LEU2 hta1_R78A-HTB1-HHT2-HHF2</i>]	Fig. 5
WY471.31 (WT Gal Shutdown H2A R78A-H2B R36A)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN HIS3 HTA1-pGAL-HTB1-HHT2-HHF2</i>] p[<i>CEN LEU2 hta1_R78A-htb1_R36A-HHT2-HHF2</i>]	Fig. 5
YAH031 (FLAG-tagged WT)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN LEU2 hta1_R78A-HTB1-HHT2-HHF2</i>] p[<i>CEN HIS3 HTA1-FLAGtag_htb1-HHT2-HHF2</i>]	Fig. 5
YAH011 (WT untagged)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN LEU2 hta1_R78A-HTB1-HHT2-HHF2</i>] p[<i>CEN HIS3 hta1_R78A-HTB1-HHT2-HHF2</i>]	Fig. 5, S5
YAH012 (FLAG-tagged H2B-H2A R78A)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN LEU2 hta1_R78A-HTB1-HHT2-HHF2</i>] p[<i>CEN HIS3 hta1_R78A-FLAGtag_htb1-HHT2-HHF2</i>]	Fig. 5, S5
YAH013 (FLAG-tagged H2B R36A-H2A R78A)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN LEU2 hta1_R78A-HTB1-HHT2-HHF2</i>] p[<i>CEN HIS3 hta1_R78A-FLAGtag_htb1_R36A-HHT2-HHF2</i>]	Fig. 5, S5
YT09 (WT untagged)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN LEU2 HTA1-HTB1-HHT2-HHF2</i>] p[<i>CEN URA3 HTA1-HTB1-HHT2-HHF2</i>]	Fig. S6
YT011 (FLAG-tagged H2A R78A H2B R36A)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN LEU2 HTA1-htb1_R36A-HHT2-HHF2</i>] p[<i>CEN URA3 FLAGtag_hta1_R78A-htb1_R36A-HHT2-HHF2</i>]	Fig. S6
YT012 (H2A FLAG-tagged WT*)	Isogenic to WY500; URA plasmid replaced with p[<i>CEN LEU2 HTA1-htb1_R36A-HHT2-HHF2</i>] p[<i>CEN URA3 FLAGtag_HTA1-HTB1-HHT2-HHF2</i>]	Fig. S6

*Strain WY500 is isogenic to JHY205 (AHN *et al.* 2005)