

Table S1 Yeast strains used in this study

Name	Species	Genotype	Source
JRY6331	<i>S. cerevisiae</i>	<i>MATα lys2Δ0 leu2Δ0 ura3Δ0 his3Δ1</i> (BY4742)	Jef Boeke
JRY9339	<i>S. cerevisiae</i>	<i>fol3Δ::KanMX MATα lys2Δ0 leu2Δ0 ura3Δ0 his3Δ1</i>	this study
JRY0527	<i>S. cerevisiae</i>	<i>MATα met2 ade2-101 his3-200 lys2-801 ura3-52</i>	Mark Johnston
JRY9340	<i>S. cerevisiae</i>	<i>set1Δ::HIS3MX MATα lys2Δ0 leu2Δ0 ura3Δ0 his3Δ1</i>	this study
JRY9341	<i>S. cerevisiae</i>	<i>fol3Δ::KanMX set1Δ::HIS3MX MATα lys2Δ0 leu2Δ0 ura3Δ0 his3Δ1</i>	this study
JRY8879	<i>S. cerevisiae</i>	<i>sir1Δ::TRP1 hmr-a1::K.I.URA3 MATα ade2-1 leu2-3,112 his3-11 trp1-1 ura3-1</i> (W303)	Osborne, 2009
JRY9342	<i>S. cerevisiae</i>	<i>fol3Δ::KanMX sir1Δ::TRP1 dot1Δ::HIS3MX hmr-a1::K.I.URA3 MATα ade2-1 lys2 leu2-3,112 his3-11 trp1-1 ura3-1</i>	this study
JRY9343	<i>S. cerevisiae</i>	<i>fol3Δ::KanMX sir1Δ::TRP1 dot1Δ::HIS3MX hmr-a1::K.I.URA3 MATα ade2-1 lys2 leu2-3,112 his3-11 trp1-1 ura3-1</i> [pJR2541]	this study
JRY9344	<i>S. cerevisiae</i>	<i>fol3Δ::KanMX sir1Δ::TRP1 dot1Δ::HIS3MX hmr-a1::K.I.URA3 MATα ade2-1 lys2 leu2-3,112 his3-11 trp1-1 ura3-1</i> [pJR2542]	this study
JRY9345	<i>S. pombe</i>	<i>h- ura4-D18 leu1-32 his3-301 ade6-M210</i>	Zac Cande
JRY9346	<i>S. pombe</i>	<i>fol1::KanMX h- ura4-D18 leu1-32 his3-301 ade6-</i>	this study
JRY9380	<i>S. pombe</i>	<i>met6::loxP h- ura4-M190T leu1-32</i>	Fujita, 2006
JRY9381	<i>S. cerevisiae</i>	<i>fol3Δ::KanMX SET1-TAP::his3MX MATα lys2Δ0 leu2Δ0 ura3Δ0 his3Δ1</i>	this study
JRY9382	<i>S. cerevisiae</i>	<i>fol3Δ::KanMX DOT1-TAP::his3MX MATα lys2Δ0 leu2Δ0 ura3Δ0 his3Δ1</i>	this study

Table S2 Plasmids used in this study

plasmid	backbone	yeast selection	insert	source
pJR2541	pRS315	LEU2	DOT1	van Leeuwen, 2002
pJR2542	pRS315	LEU2	dot1(G401A)	van Leeuwen, 2002

Table S3 Oligonucleotides used in this study*RT-qPCR*

<i>ACT1</i>	GGCATCATACCTTCTACAACGAATTG GTTTTGTCCTTGACTCTTCCGGTAG
<i>BNA2</i>	GACGTTGCATTTCCATGCTG CCCTGCACTGCTTTAAGAAG
<i>PER33</i>	TTCCAGGAATCGTCCCATG CGATGGCATATGTAACGGAT
<i>HBG1</i>	TGGCAAGAAGGTGCTGACTTC GCAAAGGTGCCCTTGAGATC
<i>ACTB</i>	AAGATCAAGATCATTGCTCCTC ATACTCCTGCTTGCTGATCC

ChIP qPCR

<i>HMRA1</i>	CACGGGCATTTTTAGAACAGG TTGAGAACAAGAGCAAGAC
<i>BNA2</i>	AACCGGACCACAAGTACTAC TCCTCTTGCAAAAGAGAGGG
<i>PER33</i>	TTCCAGGAATCGTCCCATG CGATGGCATATGTAACGGAT
<i>HBG1</i>	TGGCAAGAAGGTGCTGACTTC GCAAAGGTGCCCTTGAGATC
<i>HBE1</i>	CACAACTTAGTGCCATCCATCAC CCCTGTTCTCCATGGTACTTAAAAG