

Table 1: McDaniel et al.

Table 1. Strains Used in this Study			
Name	Description	Genotype	Reference
YSM080	$\Delta rco1$	MATa his3 Δ 1 leu2 Δ 0 met15 Δ 0 ura3 Δ 0 Rco1 Δ ::KanMX	This study
KLY78	WT Flo8 Cryptic Reporter Strain	MAT α , ura3-52, leu2 Δ 1, trp1 Δ 63, his3 Δ 200, lys2-128 δ , KanMX4::GAL1pr-flo8::HIS3 (flo8 Δ (+1729-2505)::HIS3 (+1-663))	Silva et al. 2012
YSM127	KLY78, Rco1 Δ	MAT α , ura3-52, leu2 Δ 1, trp1 Δ 63, his3 Δ 200, lys2-128 δ , KanMX4::GAL1pr-flo8::HIS3 (flo8 Δ (+1729-2505)::HIS3 (+1-663)) rco1 Δ ::Nat	This study
BY4741	WT	MATa his3 Δ 1 leu Δ 0 met15 Δ 0 ura3 Δ 0	
YSB787	Bur1 Shuffle	MATa ura3-52 leu2 Δ 1 trp1 Δ 63 his3 Δ 200 bur1 Δ ::HIS3 lys2 Δ 202 [pRS316-BUR1]	Keogh et al., 2003.
YSB1849	Bur1 Shuffle rco1 Δ	MATa bur1 Δ ::HIS3 rco1 Δ ::KanMX ura3-52 leu2 Δ 1 trp1 Δ 63 his3 Δ 200 lys2 Δ 202 [pRS316-BUR1]	Keogh et al., 2005.
YSB1003	Bur1 Shuffle set2 Δ	MAT α , bur1 Δ ::HIS3, set2 Δ ::KanMX, ura3-52 or 3 Δ 0, leu2 Δ 1 or 2 Δ 0, trp1 Δ 63, his3 Δ 200 or 3 Δ 1, lys2 Δ 202 (pRS316-BUR1)	Keogh et al., 2005.
YCR239	STE11-HIS3 reporter strain, rco1 Δ	MATa, his3 Δ 1 leu2 Δ 0 met15 Δ 0 ura3 Δ 0 RCO1 Δ ::KANMX6 STE11-1870::HIS3	Ruan 2015

Table 2: McDaniel et al.

Table S2: Plasmids Used in This Study		
Name	Features	Source
pRS415	Empty Vector	
pRS415-Rco1	Rco1-3XHA	This study
pRS415-Rco1-C275A	Rco1-C275A-3XHA	This study
pRS415-Rco1-D276A	Rco1-D276A-3XHA	This study
pRS415-Rco1-H283A	Rco1-H283A-3XHA	This study
pRS415-Rco1-C417A	Rco1-C417A-3XHA	This study
pRS415-Rco1-M438W	Rco1-M438W-3XHA	This study
pRS415-Rco1-C440A	Rco1-C440A-3XHA	This study
pRS415-Rco1-D441A	Rco1-D441A-3XHA	This study
pBL1253	pRS415 Rco1pro Flag-Rco1WT	Ruan et al., 2015
pCR864	pRS415-Rco1pro-Flag-Rco1phd2Δ	This study
pCR863	pRS415-Rco1pro-Flag-Rco1-C417A	This study
pBL451	pRET-GST-Rco1-PHD1	This study
Rco1-PHD2	pGEXT4T1-Rco1-PHD2	This study

Table 3: McDaniel et al.

Table 3. Histone peptides used in this study		
Tag	Name	Sequence
Biotin	H3 (1-20)	AR ² TK ⁴ QTAR ⁸ K ⁹ S ¹⁰ TGGK ¹⁴ APRK ¹⁸ QL-K(Biot)-NH ₂
Biotin	H3 (1-20) H3K4me3	ARTK(Me ₃)QTARKS ¹⁰ TGGKAPRKQL-K(Biot)-NH ₂
Biotin	H3(27-45)	KSAPSTGGVKKPHRYKPGT-GG-K(Biot)-NH ₂
Biotin	H3(27-45) H3K36me2	KSAPSTGGVK(Me ₂)KPHRYKPGT-GG-K(Biot)-NH ₂
Biotin	H3(27-45) H3K36me3	KSAPSTGGVK(Me ₃)KPHRYKPGT-G-K(Biot)-NH ₂