TABLE S1

Strains and genetic crosses used in this study

[1]Haploids (parental)	[2]Genotype
ND9	*MATa*; *ura3-52*; *ade2-101*; *leu2*Δ; *TRP1*; *his4-r*; *can1-R*; *CYH2-s*; *lys2-801*
ND44	*MAT*α; *ura3-52*; *ade2-101*; *leu2*Δ; *trp1-h*; *HIS4*; *CAN1-s*; *cyh2-R*; *lys2-r2*
Diploids (crosses)	
PCF254 × PCF257	XVR Gap 1<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*)
PCF400 × PCF477	XVR Gap 3<(*KlURA3*::*leu2-C*) XVR Gap 3<(*KlURA3*::*leu2-B*)
PCF406 × PCF480	XVR Gap 4<(*KlURA3*::*leu2-C*) XVR Gap 4<(*KlURA3*::*leu2-B*)
PCF491 × PCF490	XVR Gap 6<(*KlURA3*::*leu2-C*) XVR Gap 6<(*KlURA3*::*leu2-B*)
PCF414 × PCF495	XVR Gap 7<(*KlURA3*::*leu2-C*) XVR Gap 7<(*KlURA3*::*leu2-B*)
PCF417 × PCF499	XVR Gap 8<(*KlURA3*::*leu2-C*) XVR Gap 8<(*KlURA3*::*leu2-B*)
PCF263 × PCF269	XVR Gap 9<(*KlURA3*::*leu2-C*) XVR Gap 9<(*KlURA3*::*leu2-B*)
PCF876 × PCF509	XVR Site 11<(*KlURA3*::*leu2-C*) XVR Site 11<(*KlURA3*::*leu2-B*)
PCF265 × PCF266	XVR Site 12<(*KlURA3*::*leu2-C*) XVR Site 12<(*KlURA3*::*leu2-B*)
PCF1126 × PCF1120	XVR Site 11<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*)
PCF1146× PCF1129	XVR Site 12<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*)
PCF432 × PCF507	XVIL Gap 1<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*)
PCF984 × PCF1022	XVIL Site 11<(*KlURA3*::*leu2-C*) XVR Site 11<(*KlURA3*::*leu2-B*)
PCF327 × PCF334	XVIL Site 12<(*KlURA3*::*leu2-C*) XVIL Site 12<(*KlURA3*::*leu2-B*)
PCF437 × PCF504	XIIIR Gap 1<(*KlURA3*::*leu2-C*) XIIIR Gap 1<(*KlURA3*::*leu2-B*)
PCF524 × PCF1084	XIIIR Site 12<(*KlURA3*::*leu2-C*) XIIIR Site 12<(*KlURA3*::*leu2-B*)
PCF955 × PCF1013	XIIIR Site 12<(*KlURA3*::*leu2-C*) XIIIR Site 12<(*KlURA3*::*leu2-B*)
PCF941 × PCF1041	XIIIR Site 12<(*KlURA3*::*leu2-C*) XIIIR Site 12<(*KlURA3*::*leu2-B*)
PCF367 × PCF359	VIIR Site 12<(*KlURA3*::*leu2-C*) VIIR Site 12<(*KlURA3*::*leu2-B*)
PCF226 × PCF220	XIIIL Site 12<(*KlURA3*::*leu2-C*) XIIIL Site 12<(*KlURA3*::*leu2-B*)
PCF382 × PCF373	XVIR Site 12<(*KlURA3*::*leu2-C*) XVIR Site 12<(*KlURA3*::*leu2-B*)

PCF950 × PCF1009	VR Site 11<(*KlURA3*::*leu2-C*) VR Site 11<(*KlURA3*::*leu2-B*)
PCF1081 × PCF1082	VR Site 12<(*KlURA3*::*leu2-C*) VR Site 12<(*KlURA3*::*leu2-B*)
PCF1136 × PCF1111	XVR Gap 1<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1101 × PCF1117	XVR Site 12<(*KlURA3*::*leu2-C*) XVR Site 12<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1105 × PCF1138	XVIL Gap 1<(*KlURA3*::*leu2-C*) XVIL Gap 1<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1114 × PCF1103	XVIL Site 12<(*KlURA3*::*leu2-C*) XVIL Site 12<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1105 × PCF1111	XVIL Gap 1<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1136 × PCF1138	XVR Gap 1<(*KlURA3*::*leu2-C*) XVIL Gap 1<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1105 × PCF1117	XVIL Gap 1<(*KlURA3*::*leu2-C*) XVR Site 12<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1101 × PCF1138	XVR Site 12<(*KlURA3*::*leu2-C*) XVIL Gap 1<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1114 × PCF1111	XVIL Site 12<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1136 × PCF1103	XVR Gap 1<(*KlURA3*::*leu2-C*) XVIL Site 12<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX*
PCF1114 × PCF1117	XVIL Gap 1<(*KlURA3*::*leu2-C*) XVR Site 12<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1101 × PCF1103	XVR Site 12<(*KlURA3*::*leu2-C*) XVIL Site 12<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX*
PCF1101 × PCF1111	XVR Site 12<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1136 × PCF1117	XVR Gap 1<(*KlURA3*::*leu2-C*) XVR Site 12<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1114 × PCF1138	XVIL Gap 1<(*KlURA3*::*leu2-C*) XVIL Gap 1<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1105 × PCF1103	XVIL Gap 1<(*KlURA3*::*leu2-C*) XVIL Site 12<(*KlURA3*::*leu2-B*) *yku70*Δ::*NatMX4*/*yku70*Δ::*NatMX4*
PCF1146 × PCF1129	XVR Site 12<(*KlURA3*::*leu2-C; core X-y'acs*Δ:: *KanMX4*) XVR Site 12<(*KlURA3*::*leu2-B; core X-y'acs*Δ:: *KanMX4*)
PCF1146 × PCF1129	XVR Site 12<(*KlURA3*::*leu2-C; core X-y'acs*Δ:: *KanMX4*) XVR Site 12<(*KlURA3*::*leu2-B; core X-y'acs*Δ:: *KanMX4*) *yku80*Δ::*NatMX4*/*yku80*Δ::*NatMX4*
PCF1131 × PCF1153	XVR Site 12<(*KlURA3*::*leu2-C; Gap 8-y'acs*Δ:: *KanMX4*) XVR Site 12<(*KlURA3*::*leu2-B; Gap 8-y'acs*Δ:: *KanMX4*)
PCF1131 × PCF1153	XVR Site 12<(*KlURA3*::*leu2-C; Gap 8-y'acs*Δ:: *KanMX4*) XVR Site 12<(*KlURA3*::*leu2-B; Gap 8-y'acs*Δ:: *KanMX4*) *yku80*Δ::*NatMX4*/*yku80*Δ::*NatMX4*
PCF1135 × PCF1119	XVR Site 12<(*KlURA3*::*leu2-C*) XVR Site 12<(*KlURA3*::*leu2-B*)
PCF524 × PCF490	XIIIR Site 12<(*KlURA3*::*leu2-C*) XVR Gap 6<(*KlURA3*::*leu2-C*)
PCF524 × PCF490	XIIIR Site 12<(*KlURA3*::*leu2-C*) XVR Gap 6<(*KlURA3*::*leu2-B*) *yku80*Δ::*KanMX6*/*yku80*Δ::*KanMX6*
PCF491 x PCF490	XVR Gap 6<(*KlURA3*::*leu2-C*) XVR Gap 6<(*KlURA3*::*leu2-B*)
PCF491 × PCF490	XVR Gap 6<(*KlURA3*::*leu2-C*) XVR Gap 6<(*KlURA3*::*leu2-B*) *yku80*Δ::*KanMX6*/*yku80*Δ::*KanMX6*

PCF876 × PCF509	XVR Site 11<(*KlURA3*::*leu2-C*) XVR Site 11<(*KlURA3*::*leu2-B*)
PCF876 × PCF509	XVR Site 11<(*KlURA3*::*leu2-C*) XVR Site 11<(*KlURA3*::*leu2-B*) *yku80*Δ::*KanMX6*/*yku80*Δ::*KanMX6*
PCF524 × PCF507	XIIIR Site 12<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*)
PCF524 × PCF507	XIIIR Site 12<(*KlURA3*::*leu2-C*) XVR Gap 1<(*KlURA3*::*leu2-B*) *yku80*Δ::*KanMX6*/*yku80*Δ::*KanMX6*

[1]ND9 and ND44 are the two parental strains that were used for *leu2-C* or *leu2-B* insertions. Following successful insertion of each heteroallele the parental strains were crossed to generate the diploids for analysis of recombination rates. [2]All diploid genotypes are therefore ND9×ND44 and denote insert sites for the *leu2* heteroalleles (see Figure 1A).