Strain	Genotype	Origin
CB1017	*ho::LYS2, lys2, ura3, leu2::hisG, his3::hisG, trp1::hisG*	K8379
Strain	**Additions to CB1017 genotype**	
CB46	*REC8-3HA-URA3*	This study
CB58	*rad50-K181-URA3*	NKY1002
CB319	*SMC6-13Myc-kanMX*	This study
CB1032	*smc6-56*	This study
CB1181	*SMC6-6HIS-3xFlag-kanMX*	This study
CB1183	*arg4-Bgl2/arg4-Nsp, his4B::LEU2-MluI/his4xLEU2-MluI::BamHI-URA3*	This study
CB1197	*promURA3::tetR::GFP-LEU2, tetOx224-URA3, heterozygous CenV-GFP*	This study
CB1248	*smc6-56, promURA3::tetR::GFP-LEU2, tetOx224-URA3, heterozygous CenV-GFP*	This study
CB1301	*smc6-56, spo11::hphMX*	This study
CB1302	*spo11::hphMX*	This study
CB1303	*smc6-56, arg4-Bgl2/arg4-Nsp, his4B::LEU2-MluI/his4xLEU2-MluI::BamHI-URA3*	This study
CB1346	*ScREC8-3HA-URA3, smc6-56*	This study
CB1360	*smc6-56, rad50-K181-URA3*	This study
CB1361	*REC8-3HA-URA3, SMC6-13Myc-kanMX*	This study
CB1411	*rec8::kanMX, SMC6-13Myc-kanMX*	This study
CB1426	*smc6-56, pURA3-TetR-GFP-LEU2, Bmh1::tetOx224-URA3, heterozygous TelV-GFP*	This study
CB1427	*pURA3-TetR-GFP-LEU2, Bmh1::tetOx224-URA3, heterozygous TelV-GFP*	This study
CB1430	*SMC6-6HIS-3xFlag-kanMX, rec8::URA3*	This study
CB1465	*smc6-56, spo11::URA3, spo13::hisG*	This study
CB1466	*spo11::URA3, spo13::hisG*	This study
CB1510	*kanMX-pCLB2-3HA-NSE4*	This study
CB1511	*kanMX-pCLB2-3HA-NSE4, spo11::hphMX*	This study
CB1723	*smc6-56, pGAL-NDT80-TRP1, ura3::pGPD1-GAL4(848).ER::URA3*	This study
CB1753	*pGAL-NDT80-TRP1, ura3::pGPD1-GAL4(848).ER::URA3*	This study
CB1754	*kanMX-pCLB2-3HA-SMC5, spo11::hphMX*	This study
CB1872	*kanMX-pCLB2-3HA-SMC5*	This study
CB2053	*kanMX-pCLB2-3HA-NSE2*	This study
CB2067	*kanMX-pCLB2-3HA-NSE2, spo11::hphMX*	This study
CB2059	*rad50-K181-URA3, his4xLEU2-MluI::BamHI-URA3/ his4B::LEU2-MluI, arg4-Nsp/arg4-Bgl2,*	This study
CB2060	*smc6-56, rad50-K181-URA3, his4xLEU2-MluI::BamHI-URA3/ his4B::LEU2-MluI, arg4-Nsp/arg4-Bgl2*	This study
CB2096	*arg4del(eco47III-hpa1), leu-R/ leu2-RV::URA3-(Sma1-Eco47III)-[ARG4cloned], HIS4/his4del(Sal1-Cla1)::URA3-del(Sma1-Eco47III)-arg4-EcPal(1691), cyh2-z, ura3, pGAL-NDT80-TRP1, ura3::pGPD1-GAL4(848).ER::URA3*	This study
CB2097	*smc6-56, arg4del(eco47III-hpa1), leu-R/leu2-RV::URA3-(Sma1-Eco47III)-[ARG4cloned], HIS4/his4del(Sal1-Cla1)::URA3-del(Sma1-Eco47III)-arg4-EcPal(1691), cyh2-z, ura3, pGAL-NDT80-TRP1, ura3::pGPD1-GAL4(848).ER::URA3*	This study
CB2272	*hop1::natMX, arg4del(eco47III-hpa1), leu-R/leu2-RV::URA3-(Sma1-Eco47III)-[ARG4cloned], HIS4/his4del(Sal1-Cla1)::URA3-del(Sma1-Eco47III)-arg4-EcPal(1691), cyh2-z, ura3, pGAL-NDT80-TRP1, ura3::pGPD1-GAL4(848).ER::URA3*	This study

Table S1