

Table S7a. *Saccharomyces cerevisiae* strains used in this study

Strain	Genotype	Ref
YK402-2	<i>bar1Δ::HISG</i>	[1]
ws73-10B ws73-4B	<i>scc1-73 bar1Δ::natMX4</i>	[2] This work
wtH4-9b wtH4-8D DMY24 wtH4-sup	<i>hhf1Δ::hphMX4 hhf2Δ::kanMX4 (p413TAR tet:HHF2)</i> <i>bar1Δ::natMX4</i>	[2] This work
wtH4s73-9B wtH4s73-19B	<i>hhf1Δ::hphMX4 hhf2Δ::kanMX4 (p413TAR-tet:HHF2)</i> <i>bar1Δ::natMX4 scc1-73</i>	[2] This work
DMY131 & DMY133	<i>SCC1-6HA:hphMX4 bar1Δ::natMX4</i>	This work
DMY3 & DMY4	<i>hhf1Δ::hphMX4 hhf2Δ::kanMX4 (p413TAR-tet:HHF2)</i> <i>SCC1-6HA:hphMX4 bar1Δ::natMX4</i>	This work

All strains are isogenic to W303-1A (MATa leu2-3,112 trp1-1 ura3-1 ade2-1 can1-100 his3-11 RAD5)

REFERENCES

1. Ogi H, Wang C-Z, Nakai W, Kawasaki Y, Masumoto H. The role of the *Saccharomyces cerevisiae* Cdc7–Dbf4 complex in the replication checkpoint. *Gene*. 2008;414:32–40.
2. Murillo-Pineda M, Cabello-Lobato MJ, Clemente-Ruiz M, Monje-Casas F, Prado F. Defective histone supply causes condensin-dependent chromatin alterations, SAC activation and chromosome decatenation impairment. *Nucleic Acids Res*. 2014;42:12469–82.
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Table S7b. Oligos used in this study

Name	Sequence	Figure
ECORI +TETH4 F	TTC CGT GTG GCA ATA ATC TC	S2 (left)
ECORI+TETH4 R	TAA CAG GCT TTC ATA CTG CC	S2 (left)
ECORI 508860 F	AGCAGGGATGACTCTGTGAC	S2 (center)
ECORI 509071 R	ATGGTTCAAGGCCGATTGTATG	S2 (center)
HINDIII+TETH4 F	GCA AAT AAA CAA GAA GTT AGC	S2 (right)
HINDIII+TETH4 R	ACG CGT AAC AAT TAC GAA AC	S2 (right)
Up-ERR2pr	TGTTCTGTAATGTGCCTATTGC	3E
Lo-ERR2pr	CGAGCATGCGAGTATTTCTTTTC	3E
Up-IWR1pr	TTCGCAGCATGTGGATTCA	3E
Lo-IWR1pr	TGTGCCGACACAAACAAGAGA	3E
Up-GAT3pr	AAAGAAGCCAGATGAAGTGCCAGG	3E
Lo-GAT3pr	CACCAAATAAGTACTGTGTTAAAGG	3E
Up-tP(UGG)N1	GGCGTGTGGTCTAGTGGTATG	3E
Lo-tP(UGG)N1	CCTCTCGCATGCTTTGTCT	3E
Up-tK(CUU)E1	GGCTCGAACCCTAACCTTATG	3E
Lo-tK(CUU)E1	GCAATCAATGAACAACCAATGC	3E
Up-CEN3	GTTGAGCA TCCCA TCCAGTT	3E
Lo-CEN3	GGGTAATGGCAAATCTGCTT	3E
Up-CEN5	GTTGCA TTTGCCTTTGGACT	3E
Lo-CEN5	CCCAATTTTAAACGCTCCAA	3E
Up-rDNA	TTTCTGCCTTTTTCGGTGAC	3E
Lo-rDNA	TGGCATGGATTTCCCTTTAG	3E
Up-TEL03L	ATCCCACTACCACATGCCATACT	3E
Lo-TEL03L	AGCATCCGTGTGCGTATGAC	3E