

Supplementary table 2

Yeast strains used in this study

Strain	genotype	source
YS2828	<i>MATa URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS2899	<i>MATa mcm4⁷⁴⁻¹⁷⁴ URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS2830	<i>MATa sld3-38A-10his-13myc::KanMx URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS2886	<i>MATa mcm4⁷⁴⁻¹⁷⁴ sld3-38A-10his-13myc::KanMx URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS2902	<i>MATa dbf4Δ::TRP1 his3::PDBF4-dbf4-19A::HIS3 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS2890	<i>MATa mcm4⁷⁴⁻¹⁷⁴ dbf4Δ::TRP1 his3::PDBF4-dbf4-19A::HIS3 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS2906	<i>MATa dbf4Δ::TRP1 his3::PDBF4-dbf4-19A::HIS3 sld3-38A-10his-13myc::KanMx URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS2894	<i>MATa mcm4⁷⁴⁻¹⁷⁴ dbf4Δ::TRP1 his3::PDBF4-dbf4-19A::HIS3 sld3-38A-10his-13myc::KanMx URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS3001	<i>MATa mcm4^{74-174, 4(SP→AP)} sld3-38A-10his-13myc::KanMx URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS3038	<i>MATa mcm4²⁻¹⁴⁵ URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS2997	<i>MATa mcm4²⁻¹⁴⁵ sld3-38A-10his-13myc::KanMx URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS3066	<i>MATa sml1Δ::HIS3 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS3075	<i>MATa mec1Δ::TRP1 sml1Δ::HIS3 ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS3077	<i>MATa rad53Δ::KanMX sml1Δ::HIS3 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YS2571	<i>MATa bar1Δ::TRP1 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Sheu et al. 2014)
YS2758	<i>MATa mcm4²⁻¹⁴⁵ bar1Δ::TRP1 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Sheu et al. 2014)
YS2585	<i>MATa mcm4²⁻¹⁷⁴ bar1Δ::TRP1 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Sheu et al. 2014)
YS2574	<i>MATa mcm4⁷⁴⁻¹⁷⁴ bar1Δ::TRP1 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Sheu et al. 2014)
YS2761	<i>MATa mcm4^{74-174, 4(SP→AP)} bar1Δ::TRP1 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Sheu et al. 2014)
YS2764	<i>MATa mcm4^{74-174, 4(SP→DP)} bar1Δ::TRP1 URA3::BrdU-Inc ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Sheu et al. 2014)
W303-1a	<i>MATa ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	Stillman lab
YS2868	<i>MATa mcm4⁷⁴⁻¹⁷⁴ ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1</i>	This study

	<i>ura3-1</i>	
YYK15	<i>MATa sld3-5 ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Kamimura et al. 2001)
YS2974	<i>MATa mcm4⁷⁴⁻¹⁷⁴ sld3-5 ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YYK16	<i>MATa sld3-6 ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Kamimura et al. 2001)
YS3012	<i>MATa mcm4⁷⁴⁻¹⁷⁴ sld3-6 ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YYK17	<i>MATa sld3-7 ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Kamimura et al. 2001)
YS3016	<i>MATa mcm4⁷⁴⁻¹⁷⁴ sld3-7 ade2-1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YYK1	<i>MATa dpb11-1 ade2 ade3 leu2 trp1 ura3</i>	(Kamimura et al. 1998)
YS3026	<i>MATa mcm4⁷⁴⁻¹⁷⁴ dpb11-1 ade2 ade3 leu2 trp1 ura3</i>	This study
YYK38	<i>MATa sld5-12 ade2-1 bar1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Takayama et al. 2003)
YS3029	<i>MATa mcm4⁷⁴⁻¹⁷⁴ sld5-12 ade2-1 bar1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study
YYT1	<i>MATa psf1-1 ade2-1 bar1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	(Takayama et al. 2003)
YS3032	<i>MATa mcm4⁷⁴⁻¹⁷⁴ psf1-1 ade2-1 bar1 can1-100 his3-11,-15 leu2-3,112 trp1-1 ura3-1</i>	This study

Kamimura Y, Masumoto H, Sugino A, Araki H. 1998. Sld2, which interacts with Dpb11 in *Saccharomyces cerevisiae*, is required for chromosomal DNA replication. *Mol Cell Biol* **18**: 6102-6109.

Kamimura Y, Tak YS, Sugino A, Araki H. 2001. Sld3, which interacts with Cdc45 (Sld4), functions for chromosomal DNA replication in *Saccharomyces cerevisiae*. *EMBO J* **20**: 2097-2107.

Sheu YJ, Kinney JB, Lengronne A, Pasero P, Stillman B. 2014. Domain within the helicase subunit Mcm4 integrates multiple kinase signals to control DNA replication initiation and fork progression. *Proc Natl Acad Sci U S A* **111**: E1899-1908.

Takayama Y, Kamimura Y, Okawa M, Muramatsu S, Sugino A, Araki H. 2003. GINS, a novel multiprotein complex required for chromosomal DNA replication in budding yeast. *Genes Dev* **17**: 1153-1165.