Table S1. Strains used in this study.

Strain	Genotype	Source or Reference
BY4741 (**YF336**)	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*	This study[1]
DMY2800 (**YF1444**)	MATa; *ura3-52*; *ade2-1*; *his3Δ11,15*; *leu2Δ3,112*; *trp1Δ1*; *can1Δ100*; *NTS2*::*mURA3-LEU2+*	[1]
YSB2244	MATa; *ura3Δ52*; *ade2Δ1*; *his3Δ11,15*; *leu2Δ3,112*; *trp1Δ1*; *can1Δ100*; *NTS2*::*mURA3-LEU2+*; *rrp6Δ*::*KANMX*	[2]
YF1465	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ*::*KANMX*	This study[1]
YF1977	MAT?; *ura3Δ0*; *leu2Δ0*; *his3Δ0*; *dis3Δ*::*KANMX* [p*DIS3* (*LEU2*, CEN/ARS]	[3]
YF1978	MAT?; ura3Δ0; leu2Δ0; his3Δ0; *dis3Δ*::*KANMX* [p*dis3* (D171A) (*LEU2*, CEN/ARS)]	[3]
YF1979	MAT?; *ura3Δ0*; *leu2Δ0*; *his3Δ0*; *dis3Δ*::*KANMX* [p*dis3* (D551N) (*LEU2*, CEN/ARS)]	[3]
YF1186	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *dhh1Δ*::*KANMX*	This study[1]
YF1694	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *xrn1Δ*::*KANMX*	This study[1]
YF1064	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *ccr4Δ*::*KANMX*	This study[1]
YF1926	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *lsm2-ts*::*URA3*; *can1Δ*::*LEU2-MFAprHIS3*; *met15Δ0*; *lys2Δ0*	[4]
YLV7	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ*::*KAN MX*; *tlc1Δ*::*HIS3* [pRS316-*TLC1* (*TLC1*, *URA3*, CEN/ARS)]	This study
YLV19	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *tlc1Δ*::*HIS3* [pRS316-*TLC1* (*TLC1*, *URA3*, *CEN/ARS*)]	This study
YLV22	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *tlc1Δ*::*HIS3* [pRS316-*TLC1* (*TLC1*, *URA3*, CEN/ARS)] [pRS315-*TLC1* (*TLC1*, *LEU2*, CEN/ARS)]	This study
YLV8	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ*::*KAN MX*; *tlc1Δ*::*HIS3* [pRS316-*TLC1* (*TLC1*, *URA3*, CEN/ARS)] [pRS315-*TLC1* (*TLC1*, *LEU2*, CEN/ARS)]	This study
YLV24	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *tlc1Δ*::*HIS3* [pRS316-*TLC1* (*TLC1*, *URA3*, CEN/ARS)] [pRS315- *tlc1sm*$^-$ (*tlc1-sm*$^-$, *LEU2*, CEN/ARS)]	This study
YLV36	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ*::*KAN MX*; *tlc1Δ*::*HIS3*	This study

	[pRS316-*TLC1* (*TLC1*, *URA3*, CEN/ARS)] [pRS315- *tlc1sm*$^{-}$ (*tlc1-sm*$^{-}$, *LEU2*, CEN/ARS)]	
YLV25	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *tlc1Δ::HIS3* [pRS316-*TLC1* (*TLC1*, *URA3*, CEN/ARS)] [pRS315-*tlc1sm2T* (*tlc1-sm2T*, *LEU2*, CEN/ARS)]	This study
YLV37	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ::KAN MX*; *tlc1Δ::HIS3* [pRS316-*TLC1* (*TLC1*, *URA3*, CEN/ARS)] [pRS315- *tlc1sm2T* (*tlc1-sm2T*, *LEU2*, CEN/ARS)]	This study
YLV26	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *tlc1Δ::HIS3* [pRS316-*TLC1* (*TLC1*, *URA3*, CEN/ARS)] [pRS315-*tlc1sm4C5C* (*tlc1-sm4C5C*, *LEU2*, CEN/ARS)]	This study
YLV38	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ::KAN MX*; *tlc1Δ::HIS3* [pRS316-*TLC1* (*TLC1*, *URA3*, CEN/ARS)] [pRS315-*tlc1sm4C5C* (*tlc1-sm4C5C*, *LEU2*, CEN/ARS)]	This study
YF182	MATα; *ura3Δ52*; *leu2Δ3,112*; *trp1Δ289*; *smd1::LEU2* [p*GAL::SMD1HA* (*GAL1::SMD1HA*; *URA3*)]	[5], [6]
YLV34	MATα; *ura3Δ52*; *leu2Δ3,112*; *trp1Δ289*; *smd1::LEU2*; *rrp47Δ::KAN MX* [p*GAL::SMD1HA* (*SMD1*, *URA3*)]	This study, [5], [6]
BY4742 (**YF2068**)	MATα; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *lys2Δ0*	This study[1]
YF2069	MATα; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *lys2Δ0*; *tgs1Δ::KANMX*	This study[1]
YF2070	MATα; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *lys2Δ0*; *kap122Δ::KANMX*	This study[1]
YF2088 (**PSUΔ192-507**)	MATa; *ura3Δ52*; *trp1Δ1*; *his3Δ1*; *lys2Δ801*; *snr19Δ::LYS2* [pSE358 (*snr19Δ192-507*, *TRP1*, CEN/ARS)]	[7]
YLV68	MATa; *ura3Δ52*; *trp1Δ1*; *his3Δ1*; *lys2Δ801*; *snr19Δ::LYS2*; *rrp47Δ::KAN MX* [pSE358 (*snr19Δ192-507*, *TRP1*, CEN/ARS)]	This study, [7]
YF2081 (**RSY1**)	MATa; *ura3Δ52*; *leu2Δ3,112*; *trp1Δ289*; *ade2 arg4* (*RV-*); *snr19Δ::ADE2* [pXL46 (*GAL::U1*, *URA3*)] [YEplac112 (*snr19Δ192-507sm*, *TRP1*)]	[7]
YLV48	MATa; *ura3Δ52*; *leu2Δ3,112*; *trp1Δ289*; *ade2 arg4* (*RV-*); *snr19Δ::ADE2*; *rrp47Δ::KAN MX* [pXL46 (*GAL::U1*, *URA3*)] [YEplac112 (*snr19Δ192-507sm*, *TRP1*)]	This study
YLV46	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*;	This study

	[pRS423-*NTS1* (*NTS1*, *HIS3*, 2μ)]	
YLV47	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ*::*KAN MX* [pRS423-*NTS1* (*NTS1*, *HIS3*, 2μ]	This study
YLV81	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0* [pRS423-*nts1*::*Sm* (*nts1*::*Sm*, *HIS3*, 2μ)]	This study
YLV82	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ*::*KAN MX* [pRS423-*nts1*::*Sm* (*nts1*::*Sm*, *HIS3*, 2μ)]	This study
YLV93	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0* [pRS423-*nts1*::*sm4C5C* (*nts1*::*sm4C5C*, *HIS3*, 2μ)]	This study
YLV94	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ*::*KAN MX* [pRS423-*nts1*::*sm4C5C* (*nts1*::*sm4C5C*, *HIS3*, 2μ)]	This study
YLV125	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *rrp47Δ*::*KAN MX*; *tlc1Δ*::*HIS3; proA-EST2 (N-terminal tag)* [pRS315-*tlc1sm4C5C* (*tlc1-sm4C5C*, *LEU2*, CEN/ARS)]	This study, [8]
YLV126	MATa; *ura3Δ0*; *leu2Δ0*; *his3Δ1*; *met15Δ0*; *tlc1Δ*::*HIS3; proA-EST2 (N-terminal tag)* [pRS315-*TLC1* (*TLC1*, *LEU2*, CEN/ARS)]	This study, [8]
YLV115	MATa; *ura3-52*; *leu2-1*; *trp1-63*; *his3Δ*::*LEU2*; *rat1-1*; *<HIS>Pgal*::*HA2- NRD1*	This study
YLV154	MATa; *ura3-52*; *leu2-1*; *trp1-63*; *his3Δ*::*LEU2*; *rat1-1*; *<HIS>Pgal*::*HA2- NRD1*; *rrp47Δ*::*KAN MX*	This study
YF691	MATa; *ura3-52*; *leu2-3*, *112*; *trp1Δ0*; *pep4-3*	[9]
YF1446	MATa; *ura3-52*; *leu2-3*, *112*; *trp1Δ0*; *pep4-3*; *sen1-1*	[9]
YF1449	MATa; *ura3-52*; *leu2-3*, *112*; *trp1Δ0*; *pep4-3*; *sen1-1*; *rrp6Δ*::*URA3*	[2]
YP34 (**SPT999a**)	h+; *ura4*; *leu1-32*; *his2*; *otr1*::*URA4+*; *ade6-210*	[10]
YP35 (**SPEN 297**)	h+; *ura4*; *leu1-32*; *his2*; *otr1*::*URA4+*; *ade6-210*; *rrp6Δ*::*KAN MX*	This study, [10]
YP67	h-; *leu1*; *ura4*; *dis3-54*	[11]
YP53	h+; *ura4-Δ18*; *leu1-32*; *ade6-216*; *DIS3-3xHA-TAP::KAN MX*	This study
YP54	h+; *ura4*; *leu1-32*; *his2*; *otr1*::*URA4+*; *ade6-210*; *rrp6Δ*::*KAN MX; DIS3-3xHA-TAP::KAN MX*	This Study
YP22	h+; *ura4-Δ18*; *leu1-32*; *ade6-216*	This study

[1])-strains were obtained from the Saccharomyces Genome Deletion Project

MAT? - indicates that the mating type of a haploid strain is not known.

Supporting References

1. Huang J, Brito IL, Villen J, Gygi SP, Amon A, et al. (2006) Inhibition of homologous recombination by a cohesin-associated clamp complex recruited to the rDNA recombination enhancer. Genes Dev 20: 2887-2901.
2. Vasiljeva L, Kim M, Terzi N, Soares LM, Buratowski S (2008) Transcription termination and RNA degradation contribute to silencing of RNA polymerase II transcription within heterochromatin. Mol Cell 29: 313-323.
3. Schaeffer D, Tsanova B, Barbas A, Reis FP, Dastidar EG, et al. (2009) The exosome contains domains with specific endoribonuclease, exoribonuclease and cytoplasmic mRNA decay activities. Nat Struct Mol Biol 16: 56-62.
4. Ben-Aroya S, Coombes C, Kwok T, O'Donnell KA, Boeke JD, et al. (2008) Toward a comprehensive temperature-sensitive mutant repository of the essential genes of Saccharomyces cerevisiae. Mol Cell 30: 248-258.
5. Birney E, Stamatoyannopoulos JA, Dutta A, Guigo R, Gingeras TR, et al. (2007) Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. Nature 447: 799-816.
6. Zhang D, Rosbash M (1999) Identification of eight proteins that cross-link to pre-mRNA in the yeast commitment complex. Genes Dev 13: 581-592.
7. Seipelt RL, Zheng B, Asuru A, Rymond BC (1999) U1 snRNA is cleaved by RNase III and processed through an Sm site-dependent pathway. Nucleic Acids Res 27: 587-595.
8. Friedman KL, Cech TR (1999) Essential functions of amino-terminal domains in the yeast telomerase catalytic subunit revealed by selection for viable mutants. Genes Dev 13: 2863-2874.
9. Ursic D, Chinchilla K, Finkel JS, Culbertson MR (2004) Multiple protein/protein and protein/RNA interactions suggest roles for yeast DNA/RNA helicase Sen1p in transcription, transcription-coupled DNA repair and RNA processing. Nucleic Acids Res 32: 2441-2452.
10. Nicolas E, Yamada T, Cam HP, Fitzgerald PC, Kobayashi R, et al. (2007) Distinct roles of HDAC complexes in promoter silencing, antisense suppression and DNA damage protection. Nat Struct Mol Biol 14: 372-380.
11. Ohkura H, Adachi Y, Kinoshita N, Niwa O, Toda T, et al. (1988) Cold-sensitive and caffeine-supersensitive mutants of the Schizosaccharomyces pombe dis genes implicated in sister chromatid separation during mitosis. EMBO J 7: 1465-1473.