

Table S1. Strains used in this study.

Code	Name	Genotype	Reference/source
YBL7	wt BY4741	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0</i>	Euroscarf
YBL526	<i>rat1-1</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 rat1-1::NAT</i>	Iglesias <i>et al.</i> , 2011
YNI157		<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6</i>	Nahid Iglesias, Virginia Zakian
YNI322	<i>ku70Δ</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 ku70::KAN</i>	Brian Luke
YNI527	<i>sir3Δ</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 sir3::HIS3</i>	Iglesias <i>et al.</i> , 2011
LVPS-5		<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT</i>	This study
LVPS-11		<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA::KAN</i>	This study
LVPS-21	wt	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA</i>	This study
LVPS-31/-33	TetO7-1L	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA URA_ADH1_TetO7_CYC1_1L_TERRA</i>	This study
LVPS-39/-41	control	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA URA_ADH1_1L_TERRA</i>	This study
LVPS-118	<i>exo1Δ</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA exo1::HIS3MX6</i>	This study
LVPS-123	<i>exo1Δ/TetO7-1L</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA URA_ADH1_TetO7_CYC1_1L_TERRA exo1::HIS3MX6</i>	This study
LVPS-131	<i>mre11Δ</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA mre11::HIS3MX6</i>	This study
LVPS-132/-133	<i>mre11Δ/TetO7-1L</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA URA_ADH1_TetO7_CYC1_1L_TERRA mre11::HIS3MX6</i>	This study
LVPS-137	<i>ku70Δ</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA ku70::HIS3MX6</i>	This study
LVPS-138/-139	<i>ku70Δ/TetO7-1L</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA URA_ADH1_TetO7_CYC1_1L_TERRA ku70::HIS3MX6</i>	This study
LVPS-151	Ku80-8G-3HA/TetO7-1L	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA URA_ADH1_TetO7_CYC1_1L_TERRA Ku80-8G-3HA::HIS3MX6</i>	This study
	<i>est1Δ/TetO7-1L</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA URA_ADH1_TetO7_CYC1_1L_TERRA est1::KANMX6</i>	This study
	<i>est1Δ/exo1Δ/TetO7-1L</i>	<i>MATA his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 Est2-8G-myc18::TRP1MX6 trp1::NAT ade2::tTA URA_ADH1_TetO7_CYC1_1L_TERRA est1::KANMX6 exo1::HIS3MX6</i>	This study