

**Table S1: Strains used in this study**

Strain	Genotype	Source	Figure
FY1193	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+</i>	2	1C 3 5C 7BCD S1DE S4 S5 S6 S8BC S10
PSB0906	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ cen1:hphMX lem2::natMX</i>	1	1C 3 7BCD S1DE S4 S5BCD S6AB S10
PM0335	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ clr4::kanMX</i>	3	1BC 3AB S1C S5BC
SPY139	<i>h90 mat3M::ura4 leu1-32 ade6-M210 ura4DS/E</i>	4	1C
PM0333	<i>h90 mat3M::ura4 leu1-32 ade6-M210 ura4DS/E clr4::kanMX</i>	3	1C
PSB0706	<i>h90 mat3M::ura4 leu1-32 ade6-M210 ura4DS/E lem2::natMX</i>	1	1C
PSB0582	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX</i>	1	1BDE 2 S1C S2 S3
PSB0638	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX</i>	1	1BDE 2 S1C S2 S3
PSB0646	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX nur1::natMX</i>	1	2 S2AB S3B
PSB0809	<i>P (h+) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ rpl42::cyhR(sP56Q) cen1:hphMX nur1::kanMX lem2::natMX</i>	1	S2AB
PSB0640	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX ima1::natMX</i>	1	1DE S2C
PSB1332	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX ima1::natMX lem2::kanMX</i>	1	1DE S2C

Table S1: Strains used in this study (cont.)

PSB0642	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX man1::natMX</i>	1	1DE S2C
PSB1328	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX man1::natMX lem2::kanMX</i>	1	1DE S2C
PSB0736	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX clr2::natMX</i>	1	2ABD S3B
PSB0734	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX ckb1::natMX</i>	1	2AB S3B
PSB0835	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ csil::kanMX</i>	1	3A S4A S6B
PSB0871	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ lem2::natMX csil::kanMX cen1:hphMX?</i>	1	3A S4A S5D S6B
PSB0837	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ alp14::kanMX</i>	1	S4AB
PSB0872	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ lem2::natMX alp14::kanMX cen1:hphMX?</i>	1	S4AB S5D
PSB0841	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ lnp1::kanMX</i>	1	S4C
PSB0876	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ lem2::natMX lnp1::kanMX cen1:hphMX?</i>	1	S4C
PSB0843	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ dsh1::kanMX</i>	1	3AB S5B
PSB0879	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ lem2::natMX dsh1::kanMX cen1:hphMX</i>	1	3 S5BD S6C
PSB1134	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ taz1::hphMX</i>	1	3B

Table S1: Strains used in this study (cont.)

PSB1166	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ lem2::natMX taz1::hphMX</i>	1	3B S5B S6C
PSB1135	<i>P (h+) leu1-32 ade6-210 ura4-DS/Eimr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ dsh1::kanMX taz1::hphMX</i>	1	3B S5B S6C
PSB1168	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ lem2::natMX dsh1::kanMX taz1::hphMX</i>	1	3B S5B S6C
PSB1054	<i>P (h+) leu1-32 ade6-210 ura4-DS/Eimr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ atf1::hphMX</i>	1	S5C
PSB1152	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ lem2::natMX atf1::hphMX</i>	1	S5C
PSB0374	<i>P (h+) leu1-32 ade6-216 ura4-D18</i>	5	S1A
PSB0591	<i>P (h+) leu1-32 ade6-216 ura4-D18 lem2::natMX</i>	1	S1A
PSB0595	<i>P (h+) leu1-32 ade6-216 ura4-D18 nur1::natMX</i>	1	S1A
PSB0514	<i>P (h-) leu1-32 ade6-210 ura4-D18 smt0 clr4::kanMX</i>	1	S1A
PSB0356	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ chp1:CBP-2xFLAG:kanMX</i>	1	S5A
PSB1224	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ chp1:CBP-2xFLAG:kanMX lem2::natMX (clone 1)</i>	1	S5A
PSB1225	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ chp1:CBP-2xFLAG:kanMX lem2::natMX (clone 2)</i>	1	S5A
PSB1099	<i>P (h+) leu1-32 ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX</i>	*	4DE
PSB1149	<i>P (h+) leu1-32 ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX dsh1::natMX</i>	1	4E
PSB1101	<i>P (h+) leu1-32 ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX</i>	1	4E

Table S1: Strains used in this study (cont.)

PSB1151	<i>P (h+) leu1-32 ade6- ura4- his7-366? taz1::GFP:KanMX cut11::mCherry:hphMX lem2::natMX dsh1::bleMX</i>	1	4DE
PSB0912	<i>P (h+) leu1-32 ade6-M210 ura4-D18 his7-366? mis6::GFP:KanMX sad1::mCherry:hphMX</i>	1	4ABC S7AB
PSB0994	<i>P (h+) leu1-32 ade6-M210 ura4- his7-366? mis6::GFP:KanMX sad1::mCherry:hphMX lem2::natMX</i>	1	4ABC S7AB
PSB1057	<i>P (h+) leu1-32 ade6-M210 ura4-D18 his7-366? mis6::GFP:KanMX sad1::mCherry:hphMX csi1::natMX</i>	1	4ABC S7AB
PSB1071	<i>P (h+) leu1-32ade6-M210ura4- his7-366? mis6::GFP:KanMX sad1::mCherry:hphMX lem2::natMX csi1::bleMX</i>	1	4ABC S7AB
PSB1059	<i>P (h+) leu1-32 ade6-M210 ura4-D18 his7-366? mis6::GFP:KanMX sad1::mCherry:hphMX dsh1::natMX</i>	1	S7AB
PSB1067	<i>P (h+) leu1-32 ade6-M210 ura4-D18 his7-366? mis6::GFP:KanMX sad1::mCherry:hphMX lem2::natMX dsh1::bleMX</i>	1	S7AB
PSB1097	<i>P (h+) leu1-32 ade6-M210 ura4-D18 mis6::GFP:KanMX cut11::mCherry:hphMX</i>	1	S7C
PSB1651	<i>P (h+) leu1-32 ade6-M210 ura4-D18 mis6::GFP:KanMX cut11::mCherry:hphMX lem2::natMX</i>	1	S7C
PSB1653	<i>P (h+) leu1-32 ade6-M210 ura4-D18 mis6::GFP:KanMX cut11::mCherry:hphMX csi::natMX</i>	1	S7C
PSB1670	<i>P (h+) leu1-32 ade6-M210 ura4-D18 mis6::GFP:KanMX cut11::mCherry:hphMX lem2::natMX csi1::bleMX</i>	1	S7C
PSB1478	<i>P (h+) ade6-210 ura4-D18 his7-366 sad1::mCherry:hphMX lem2::natMX pREP81x</i>	1	5B
PSB1087	<i>P (h+) ade6-210 ura4-D18 his7-366 sad1::mCherry:hphMX lem2::natMX pREP81x_lem2_GFP</i>	1	5B
PSB1088	<i>P (h+) ade6-210 ura4-D18 his7-366 sad1::mCherry:hphMX lem2::natMX pREP81x_lem2ΔN_GFP</i>	1	5B

Table S1: Strains used in this study (cont.)

PSB1365	<i>P (h+) ade6-210 ura4-D18 his7-366 sad1:mCherry:hphMX lem2::natMX pREP81x_lem2ΔC_GFP</i>	1	5B
PSB1091	<i>P (h+) ade6-210 ura4-D18 his7-366 sad1:mCherry:hphMX lem2::natMX pREP81x_lem2 Cterm_GFP</i>	1	5B
PSB1090	<i>P (h+) ade6-210 ura4-D18 his7-366 sad1:mCherry:hphMX lem2::natMX pREP81x_lem2 Nterm_GFP</i>	1	5B
PSB1012	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX pREP81x_GFP</i>	1	S8A
PSB1021	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_GFP</i>	1	S8AB
PSB1022	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2_GFP</i>	1	5C S8ABC
PSB1024	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2ΔN_GFP</i>	1	5C
PSB1392	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2ΔC_GFP</i>	1	5C
PSB1023	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2Nterm_GFP</i>	1	S8C
PSB992	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2Cterm_GFP</i>	1	S8C
PSB1456	<i>P (h+) leu1-32 ade6-M210 ura4-D18 his7-366? mis6:GFP:KanMX sad1:mCherry:hphMX pREP81x</i>	1	6AB
PSB1457	<i>P (h+) leu1-32 ade6-M210 ura4- his7-366? mis6:GFP:KanMX sad1:mCherry:hphMX lem2::natMX pREP81x</i>	1	6AB
PSB1458	<i>P (h+) leu1-32 ade6-M210 ura4-D18 his7-366? mis6:GFP:KanMX sad1:mCherry:hphMX csil::natMX pREP81x</i>	1	6AB

Table S1: Strains used in this study (cont.)

PSB1459	<i>P (h+) leu1-32 ade6-M210 ura4- his7-366? mis6:GFP:KanMX sad1:mCherry:hphMX lem2::natMX csi1::bleMX pREP81x</i>	1	6AB
PSB1460	<i>P (h+) leu1-32 ade6-M210 ura4- his7-366? mis6:GFP:KanMX sad1:mCherry:hphMX lem2::natMX csi1::bleMX pREP81x_lem2</i>	1	6AB
PSB1462	<i>P (h+) leu1-32 ade6-M210 ura4- his7-366? mis6:GFP:KanMX sad1:mCherry:hphMX lem2::natMX csi1::bleMX pREP81x_lem2ΔN</i>	1	6AB
PSB1464	<i>P (h+) leu1-32 ade6-M210 ura4- his7-366? mis6:GFP:KanMX sad1:mCherry:hphMX lem2::natMX csi1::bleMX pREP81x-lem2ΔC</i>	1	6AB
PSB1232	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX pREP81x</i>	1	6C
PSB1234	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX pREP81x</i>	1	6C
PSB1235	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX pREP81x_lem2</i>	1	6C
PSB1236	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX pREP81x_lem2ΔN</i>	1	6C
PSB1237	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX pREP81x_lem2ΔC</i>	1	6C
PSB0889	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX pREP81x</i>	1	6D S1B
PSB0883	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x</i>	1	6D S1B
PSB0884	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2</i>	1	6D S1B
PSB0998	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2ΔN</i>	1	6D
PSB0999	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2ΔC</i>	1	6D

Table S1: Strains used in this study (cont.)

PSB0885	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2 Nterm</i>	1	6D
PSB1114	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP81x_lem2 Cterm</i>	1	6D
PSB0886	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX pREP41x</i>	1	S1B
PSB0880	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP41x</i>	1	S1B
PSB0881	<i>P (h-) leu1-32 ade6-210 ura4-D18 imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mat1_m-cyhS smt0 rpl42::cyhR(sP56Q) cen1:hphMX lem2::natMX pREP41x_lem2</i>	1	S1B
PSB1232	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX pREP81x</i>	1	6E S9
PSB1238	<i>P (h+)ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX dsh1::bleMX pREP81x</i>	1	6E S9
PSB1239	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX dsh1::bleMX pREP81x_lem2</i>	1	6E S9
PSB1240	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX dsh1::bleMX pREP81x_lem2ΔN</i>	1	6E S9
PSB1241	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX dsh1::bleMX pREP81x_lem2ΔC</i>	1	6E S9
PSB1643	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX dsh1::bleMX pREP81x_lem2Nterm</i>	1	6E
PSB1644	<i>P (h+) ade6- ura4- his7-366? taz1:GFP:KanMX cut11:mCherry:hphMX lem2::natMX dsh1::bleMX pREP81x_lem2Cterm</i>	1	6E
PM0818	<i>P (h-) leu1-32 ade6-210 ura4-D18 smt0 clr1:CBP-FLAG:kanMX</i>	3	7B
PSB1472	<i>P (h-) leu1-32 ade6-210 ura4-D18 smt0 clr1:CBP-FLAG:kanMX lem2::natMX</i>	1	7B
PM0706	<i>P (h-) leu1-32 ade6-210 ura4-D18 smt0 epe1:CBP-FLAG:kanMX</i>	3	7B

Table S1: Strains used in this study (cont.)

PSB1512	<i>P (h-) leu1-32 ade6-210 ura4-D18 smt0 epe1::CBP-FLAG::kanMX lem2::natMX</i>	1	7B
PM0077	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ clr1::kanMX</i>	3	7C S10A
PSB1470	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ clr1::kanMX lem2::natMX</i>	1	7C S10A
PSB1480	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ clr3::kanMX</i>	1	7C S10A
PSB1482	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ cen1:hphMX lem2::natMX clr3::kanMX</i>	1	7C S10A
PSB1647	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ nur1::natMX</i>	1	7C S10A
PSB1645	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ clr1::kanMX nur1::natMX</i>	1	7C S10A
PSB1508	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ sir2::kanMX</i>	1	7C
PSB1510	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ cen1:hphMX lem2::natMX sir2::kanMX</i>	1	7C
PSB1666	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ ckb1::kanMX</i>	1	7C S10A
PSB1668	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ cen1:hphMX lem2::natMX ckb1::kanMX</i>	1	7C S10A
PM0512	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ epe1::kanMX</i>	3	7D S10B
PSB1476	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ epe1::kanMX lem2::natMX</i>	1	7D S10B



Table S1: Strains used in this study (cont.)

PSB1649	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ epe1::kanMX nur1::natMX</i>	1	7D
PSB1514	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ mst2::kanMX</i>	1	7D S10B
PSB1516	<i>P (h+) leu1-32 ade6-210 ura4-DS/E imr1L(NcoI)::ura4+ otr1R(SphI)::ade6+ cen1:hphMX lem2::natMX mst2::kanMX</i>	1	7D S10B

1=This study; 2=Ekwall et al. 1999; 3=Braun et al. 2010; 4=Karl Ekwall; 5=Bioneer haploid deletion library; \*=derived from SS2352 strain (Shelley Sazer)

**Table S2: Plasmids used in this study**

<b>Bacterial host strain</b>	<b>Plasmid</b>	<b>Insert</b>	<b>Markers</b>	<b>Derived from</b>
ESB350	pREP41x_Lem2	<i>Lem2</i>	<i>ampR leu2<sup>+</sup></i>	pREP41x
ESB363	pREP41x_Lem2ΔN	<i>Lem2ΔN</i>	<i>ampR leu2<sup>+</sup></i>	pREP41x
ESB364	pREP41x_Lem2ΔC	<i>Lem2ΔC</i>	<i>ampR leu2<sup>+</sup></i>	pREP41x
ESB371	pREP41x_Lem2 Cterm	<i>Lem2 Cterm</i>	<i>ampR leu2<sup>+</sup></i>	pREP41x
ESB351	pREP41x_Lem2 Nterm	<i>Lem2 Nterm</i>	<i>ampR leu2<sup>+</sup></i>	pREP41x
ESB353	pREP81x_Lem2	<i>Lem2</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x
ESB365	pREP81x_Lem2ΔN	<i>Lem2ΔN</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x
ESB366	pREP81x_Lem2ΔC	<i>Lem2ΔC</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x
ESB372	pREP81x_Lem2 Cterm	<i>Lem2 Cterm</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x
ESB355	pREP81x_Lem2 Nterm	<i>Lem2 Nterm</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x
ESB382	pREP81x_Lem2_GFP	<i>Lem2</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x_GFP_Ctag
ESB379	pREP81x_Lem2ΔN_GFP	<i>Lem2ΔN</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x_GFP_Ctag
ESB380	pREP81x_Lem2ΔC_GFP	<i>Lem2ΔC</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x_GFP_Ctag
ESB375	pREP81x_Lem2 Cterm_GFP	<i>Lem2 Cterm</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x_GFP_Ctag
ESB384	pREP81x_Lem2 Nterm_GFP	<i>Lem2 Nterm</i>	<i>ampR leu2<sup>+</sup></i>	pREP81x_GFP_Ctag

**Table S3: Primer sets used for RT-qPCR and ChIP analysis**

<b>oligo name</b>	<b>FOR oligo</b>	<b>REV oligo</b>	<b>locus</b>	<b>reference</b>
P638/639	AAC CCT CAG CTT TGG GTC TT	TTT GCA TAC GAT CGG CAA TA	<i>act1</i> <sup>+</sup>	Braun et al., 2010
P581/582	CAG CAA TAT CGT ACT CCT GAA	ATG CTG AGA AAG TCT TTG CTG	<i>ura4</i> <sup>+</sup>	Braun et al., 2010
P_F'cen-dh- mb263/mb264	TGAATCGTGTCACCTCAACCC	CGAAACTTTCAGATCTCGCC	<i>cen-dh</i>	Buehler et al., 2007
P059/060	TGC TCT GAC TTG GCT TGT CTT	CCC TAA CTT GGA AAG GCA CA	<i>cen-dg</i>	Braun et al., 2010
SG1573/1574	CGAGACCCCCTAATGCTTTT	CCAGGGTACATTTTCTGATGTTG	<i>mat3M</i>	This study
P_F'tlh1- mb274/276	ATGGTCGTCGCTTCAGAAATTGC	CTCCTTGAAGAATTGCAAGCCTC	<i>tlh1</i> <sup>+</sup> / <i>tlh2</i> <sup>+</sup>	Buehler et al., 2007
SG1953/1954	TCGCCGGTAACAAAAGGATCA	GCATTAGACAACTCGTTCGATC	<i>cnt1</i>	This study
SG1800/1802	TGTCAGCTACGCAGTTTGG	AACCTCGTTCCTCAGTTCTGT	<i>LTR-Prox</i>	This Study
SG1804/1806	CCGTCTATATACATTGATATCCGTTG	CTGCGGTGAGTTTACTTGC	<i>LTR-Dist</i>	This Study

**Table S4: Primer sets used for tiling arrays RT-qPCRs**

<b>oligo name</b>	<b>FOR oligo</b>	<b>REV oligo</b>	<b>Chr</b>	<b>Chr pos.[bp]</b>
IRC-L4	TCGTTAGCATTGGCTTTGA	TGCCATATCGTCTCCGTCT	<i>Chr1</i>	3751165
IRC-L2	AACCCAAGCAGATAGACTGAAA	TAGGACCGAACTGCCAAAAC	<i>Chr1</i>	3752671
cen01	GCAAAGATCGAACGAGTTGTC	TGAAATTCATAAACGGGCTA	<i>Chr1</i>	3771275
cen06	TTACCAAATTTGTCAAACGTAAAT	TGCGTTTTCTTAGTAAAAACCTGAT	<i>Chr1</i>	3773338
cen07	TGAGGTTTTTCGTTCTTAGGG	GGCAATGTCACAAAGTTTCAA	<i>Chr1</i>	3773701
cen08	TGGACACCACTCTTGCCATA	TTGCGCATCAAGTATTTTGC	<i>Chr1</i>	3774123
cen10	GGCATTTTGTAAGCGGAAAT	TGCTTGTTTAGTGTTGAACGAA	<i>Chr1</i>	3774855
cen12	CAGCTTCTGTACTCACTCACTCA	TCGTCTTGCCTAGCGAAAT	<i>Chr1</i>	3775539
cen16	ATCACGCTTCCTTAGCATGG	TCATTCGTTGTACCAACTGCT	<i>Chr1</i>	3777292
cen17	ACATTGCTCCGGTGATTTTC	GGCGTGAATATTGATGTTTTGA	<i>Chr1</i>	3777698
cen18	AACCACCACCATGCTCTTTT	TCGCAACGATTTGAACTGTC	<i>Chr1</i>	3778113
cen19	TGCGGTCATTTAAAGGCATA	CTGTTGTTGAGTGCTGTGGA	<i>Chr1</i>	3778877
cen20	CCCATGATGTCGTTGGTAAA	CATGGAGAGCGTATGTTGAAA	<i>Chr1</i>	3779340
cen21	ATTCGCTTTGGCAAAACAT	GTTCCCGCCAGTAGATG	<i>Chr1</i>	3779670
cen22	TGGAACCCCTAACTTGAAAA	TGCTCTGACTTGGCTTGCTT	<i>Chr1</i>	3780086
cen24	AGAAAATTTCACAACTCCGTTGAT	AGAGTTGCCGCAATTGAAAC	<i>Chr1</i>	3780950

Table S4: Oligonucleotides used in this study (cont.)

cen25	ACAACATGCAATACCGATTGT	TCGTTATTGAAACACGAATAGGA	<i>Chr1</i>	3781261
cen26	GCACCGTTTTTCCAAATGTC	AACCATTTCGCATCCATTTTT	<i>Chr1</i>	3781720
cen28	TGAGGTTTCATGATGGGTTCA	TTCGGTCTTTGCAGGACTCT	<i>Chr1</i>	3782516
cen29	CGAAGTATGACCCGAATTGC	CCACGGAAAAACAAATTACCG	<i>Chr1</i>	3782972
cen30	CGAAAATTGTGTTGTGCCAGT	CATTCATCTTGC GTGTCTGC	<i>Chr1</i>	3783342
cen31	ATGCTCCGTTGCTTATCTCG	TCCTCACATTCGACATGACTG	<i>Chr1</i>	3783755
cen33	TTTGCATTCTTATCACTTGGATG	TGCTACGTACGCCAGTTGC	<i>Chr1</i>	3784450
cen34	GTTTGTTTTGGGGAGACGAA	CGATCAAATCGGTCAGTACG	<i>Chr1</i>	3784990
cen35	CCTACCGAACGTATGATTAGCA	TGGGATCGCAATTTTTGATT	<i>Chr1</i>	3785332
cen36	CGATCGATTTCTCTTGGTTTTTC	TCGCGAACATCAGCATTACT	<i>Chr1</i>	3785697
cen37	CCAAAGCAAATAGTCTAATGATCAAA	CACGGCGATAAGAAATGGA	<i>Chr1</i>	3786158
cen38	CCACCAGACCATTACAAGCA	CTCGCCTATTTACCGATCCA	<i>Chr1</i>	3786575
cen39	CGTTGAATGTTGTGCTTTCA	AATGACAAAAGGTGCCGAATC	<i>Chr1</i>	3786950
cen40	CATCTCGACTCGCTTGATGA	TGGGCATTCACGAAACATAG	<i>Chr1</i>	3787338
cen41	GTCCTGAATCTTGGCAAACAG	TACAAGGACTAAGCCCAAGCA	<i>Chr1</i>	3788114
cen42	GAAATGGGCAACAAGTCGAT	GTTGCGCAAACGAAGTTATG	<i>Chr1</i>	3788463
cen43	TCCACTTGGATGACAGAATCC	CAACGCATCTACCTCAGCAG	<i>Chr1</i>	3788848
IRC- L/R_alt1	TTGTCACGGTTTGGTTTTCA	TGTC AAGGGAAAAACCGAGA	<i>Chr2</i>	3789470

Table S4: Oligonucleotides used in this study (cont.)

ICR-L/R_alt3	TTGGCAAACCTCAAGGGAGT	CCCGCAAAACCATAAAATGT	<i>Chr4</i>	3789888
IRC-L/R1	TGCTGAATGTAACCAACATCA	GCCTCAATTGCCTATTAGTGCT	<i>Chr1</i>	3790113
IRC-R2	GCAGTGTTTACCAACAAGCGTA	AGAGAATCGCAAACGCATCT	<i>Chr1</i>	3790516
IRC-R3	TGTGTGTCAAGCAAGAAAGC	TTCATGTGCAGAATAAGCAGTG	<i>Chr1</i>	3790961
TEL2L-1	AAATTGACAGGGTCCTTGCT	TGGTTAATTGTTGAGCCGGTA	<i>Chr2</i>	211
TEL2L-2	TGGTCCAAGACTTCAAAAACG	GTTATGGTGCTGCCATGTTG	<i>Chr2</i>	527
TEL2L-3	TCGAAGAGTATAACTTATTTGGGTTG	CAACACCTTCAAGGAAAGGAA	<i>Chr2</i>	1113
TEL2L-4	TGTCAGCTACGCAGTTTTGG	AACCTCGTTCCTCAGTTCTGT	<i>Chr2</i>	1396
TEL2L-5	AATACGTTGTAGAAGTAGAGCATTACA	CCAATAATTGCGGAAGGCTA	<i>Chr2</i>	2887
TEL2L-6	CGTTGAATAACACCATACGTCAA	GCTTATTGCTGAACCTCGTTCT	<i>Chr2</i>	4970
TEL2L-7	TGCAGAGTTTGCGGTA CTG	CACAGACGTCTCCTGGTGTC	<i>Chr2</i>	6103
TEL2L-8	TTGAAACAATGCACGTCTGT	ATCACCAATGATCACCGACA	<i>Chr2</i>	8827
TEL2L-9	GCAATACGCTATTTTCGTTATGAGA	TCAGCCAAAATTATTGTGCAAG	<i>Chr2</i>	15238
TEL2L-10	GGCAACAGTTGGTTCTGACA	GACGCACCTTTAGTGCATGA	<i>Chr2</i>	20417
TEL2L-11	GGTTGAAGAGGGTGCAGGTA	TCTCAATGCCATCCATTCAA	<i>Chr2</i>	25471
TEL2L-12	TGGACCAGCTTTGTGACATT	ACCACGCTTTCCTTTGAGAA	<i>Chr2</i>	36499
TEL2L-13	GCAAAACAACGCAACTTGA	AAGACGAGGCTCCC GTTTAT	<i>Chr2</i>	38690
TEL2L-14	CGCTTGAAAGCACCAGAGA	AAATTACTCGCCGTCAGTGC	<i>Chr2</i>	44889

Table S4: Oligonucleotides used in this study (cont.)

TEL2L-15	TGTGATTGCGTTTTCTCTG	GTGGCCGCACTAAAAAGAAA	<i>Chr2</i>	47552
TEL2L-16	GGACTGCGGAAGGATATTCA	AGAATGCCAAACATGCGTTA	<i>Chr2</i>	54548
TEL2L-17	ATCCAAAACGGATTTTGTGC	ATGACCCCATGCAGTAGCTC	<i>Chr2</i>	55969
TEL2L-18	TCTTCTGCGATCTGCACAC	CGGATAGTTACCCATCATTATCAA	<i>Chr2</i>	57305
TEL2L-19	GTGAGGAGCACAGTTCAGCA	TCAGCACTACGCCGTATTACAC	<i>Chr2</i>	57750
TEL2L-20	GTCAGGTGCTCCTTGCAGAT	CCGTAAAACGGTAAATACAGCA	<i>Chr2</i>	58367
TEL2L-21	CCACTGAGACGAGGATTATACG	TCGTTGCTCTCTCAGCAAAA	<i>Chr2</i>	60773
TEL2L-22	TCGCTCTCCTTTCTTCACC	TGAAGATTTCAGCTGGAAGAGG	<i>Chr2</i>	61760
TEL2L-23	CCGTCTATATACATTGATATCCGTTG	CTGCGGTGAGTTTTACTTGC	<i>Chr2</i>	63393
TEL2L-24	CGCTGTCGAGATTACCGAAT	TTTCATAACTGGCGTAAGGGTTA	<i>Chr2</i>	64624
TEL1L-1	TTGCCTTTCTAGCCCATGAC	TGCCCCGTACGCTTATCTAC	<i>Chr1</i>	291
TEL1L-2	TCCTTCAGAAATGGCTTGCT	GCATGTGTGTTATCCCGTTG	<i>Chr1</i>	9096
TEL1L-3	TAATGAGTTGCCCCGGGTAT	CCGAATGGCAAGATGGTAAT	<i>Chr1</i>	13052
TEL1L-4	TGACAGCCAAAAGCCCTACT	GTGGCAAGGCAGACTCATT	<i>Chr1</i>	16179
TEL1L-5	ACTGCTACTCCCTGGCTGTG	GGCGAATGTGTATGTTGTGC	<i>Chr1</i>	18578
TEL1L-6	AGACGTCTCCTGATGTCACAA	TTATAGCATGGGTCGGTGTG	<i>Chr1</i>	22469
TEL1L-7	CACAGACGTCTCCTGGTGTC	TGCAGAGTTTGCGGTACTTG	<i>Chr1</i>	29603
TEL1L-8	ATAGCCCTGGTGCAGATCAC	TTTACATTTGGATGCGTCGT	<i>Chr1</i>	32718

Table S4: Oligonucleotides used in this study (cont.)

TEL1L-9	TTTTGAGGGGTCAAATGGTC	TTACTCAGCCAGTGCCTCAG	<i>Chr1</i>	34891
TEL1L-10	TTGTAGAAGCCAATGGCAGA	GTGAAATTTGGGGGCCTATT	<i>Chr1</i>	40098
TEL1L-11	AAAGCAATTTTCGCATTTTGG	CCTCCGATCGATGATACGTT	<i>Chr1</i>	44906
Tel1L-5a_F	TGGAATAAAGTGTGCTATTGAA	AGAACCGTTACTTTTCATTCAAAC	<i>Chr1</i>	19429
Tel1L-5b_F	CGTTAATTAGAAGAGAAAATGTTTGG	TTTTCTATCAAAAATAGCGAAACTTG	<i>Chr1</i>	20303
Tel1L-5c_F	CGGTGACCGATAACCATTAGA	CGATACGTATAATAGCGGTGA	<i>Chr1</i>	21287
Tel1L-5d_F	CATGGGTCCGGTGTGGTTATAG	ATCTTGTAGACCAGCCAATG	<i>Chr1</i>	22283
Tel1L-5e_F	GGGTTTCGAACGAACTGTAAA	CGAATTAGCAGGAATTAGCTTT	<i>Chr1</i>	23226
Tel1L-5f_F	TGCCTATCTGAACTCAGACGAA	CAACTGAACCTCCTAACTCGTTT	<i>Chr1</i>	24307
Tel1L-5g_F	CGGCGTTGCTAGTTCCATAA	CCAAATAACAATTCAAAAATCAAA	<i>Chr1</i>	25284
Tel1L-5h_F	CGCTTTC AATGGGTATTTTTG	TACTCGTTGTGCATCACCAT	<i>Chr1</i>	26296
Tel1L-5i_F	CTACGCATTCCAGCAGAACC	CCACGTTAGCAGCCGACTAT	<i>Chr1</i>	27352
Tel1L-12a_F	AATCTGAAATGGGAGCGTGT	TGGCGTTTTCTTTTTCGTGT	<i>Chr1</i>	48678
TEL1L-13_F	ATAGTGGCCGGGGGATTTAT	GGCCCAAATATTAATCCAGTGA	<i>Chr1</i>	52262
TEL1L-14_F	AATCTATGGGAAGGGGCACT	ACTTTACCGGTTGGAACAGC	<i>Chr1</i>	57121
TEL1L-15_F	AAACCAACGGTCAGTTACTTGTT	CCTTAAGCGATTTCCCTTTG	<i>Chr1</i>	62159
TEL1L-16_F	CGGTATCTGGACCACTTGC	GGTGTGCGAGAAGCGTAAAGG	<i>Chr1</i>	67082
TEL1L-17_F	CCGATTTTATGAAGTTCAGCAC	GCAAATTTTTTCGCGTTTTTC	<i>Chr1</i>	72123



Table S4: Oligonucleotides used in this study (cont.)

TEL1L-18_F	CCAATCGTTCGTTTCTCAGG	TTTACCATTCTGCCGATCTGT	<i>Chr1</i>	77101
TEL1L-19_F	CTGAGGGGTACCTTTCGTCA	AGCGCACTTTCAAACGGTAA	<i>Chr1</i>	82120
TEL1L-20_F	TGCTTTACCCCTCTGATTTTT	GCACAGAACTCGAAATGCAG	<i>Chr1</i>	87101
TEL1L-21_F	AAGGCATTGAAAGTACCGCTAT	CAGTAATCGTCGCGTCTACCT	<i>Chr1</i>	92096
TEL1L-22_F	CGTAAGTGGTCGAAAAACAC	CAATCCGATCATTTATGCACTT	<i>Chr1</i>	97194