

S1 Table. *S. cerevisiae* and *S. pombe* strains used in this study.

Strain	Description	Marker	Reference
4436	W303 <i>MATa can1-100 his3-11,15 leu2-3,112 ura3-1 trp1-1</i>	-	Lab collection
4437	W303 <i>MATα can1-100 his3-11,15 leu2-3,112 ura3-1 trp1-1</i>	-	Lab collection
4437-LEU2	W303 <i>MATα can1-100 his3-11,15 leu2::pNH605 ura3-1 trp1-1</i>	<i>LEU2</i>	This study
yDML77	4436 <i>TRP1 PRE1-mNeonGreen</i> (non-yeast codon-optimized)- <i>T_{ADH1}-C.g. HIS3</i>	<i>TRP1, HIS3</i>	This study
yDML78	4436 <i>TRP1 PRE1-mNeonGreen-T_{ADH1}-C.g. HIS3</i>	<i>TRP1, HIS3</i>	This study
yDML226	4437 mCherry- <i>RSP5</i>	-	This study
yDML231	4437 mCherry- <i>YPT1</i>	-	This study
yDML242	W303 <i>MATa/MATα can1-100/can1-100 his3-11,15/his3-11,15 leu2-3,112/leu2::pNH605 ura3-1/ura3-1 trp1::pNH604/ trp1-1</i>	<i>LEU2, TRP1</i>	This study
yDML248	4436 <i>P_{SEC4}-mNeonGreen-SEC4</i>	-	This study
yDML249	4436 <i>P_{YPT6}-mNeonGreen-YPT6</i>	-	This study
yDML250	4436 <i>P_{YPT7}-mNeonGreen-YPT7</i>	-	This study
yDML251	4436 <i>P_{YPT10}-mNeonGreen-YPT10</i>	-	This study
yDML252	4436 <i>P_{YPT11}-mNeonGreen-YPT11</i>	-	This study
yDML253	4436 <i>P_{YPT31}-mNeonGreen-YPT31</i>	-	This study
yDML254	4436 <i>P_{YPT32}-mNeonGreen-YPT32</i>	-	This study
yDML255	4436 <i>P_{YPT52}-mNeonGreen-YPT52</i>	-	This study
yDML256	4436 <i>P_{YPT53}-mNeonGreen-YPT53</i>	-	This study
yDML260	yR-a-60 <i>HO::pDML112</i>	<i>NAT</i>	This study
yDML261	4436 <i>trp1::pNH604-P_{RSP5}-RSP5-mNeonGreen HO::pDML112</i>	<i>TRP1, NAT</i>	This study
yDML262	4436 <i>trp1::pNH604-P_{RSP5}-mNeonGreen-RSP5 HO::pDML112</i>	<i>TRP1, NAT</i>	This study
yDML263	yR-a-298 <i>HO::pDML112</i>		This study
yDML264	4436 <i>P_{VPS21}-mNeonGreen-VPS21</i>	-	This study
yDML265	4436 <i>TDH3-mNeonGreen</i>	-	This study
yDML267	4436 <i>PRE1-mNeonGreen</i>	-	This study
yR-a-2	4436 <i>trp1::pNH604</i>	<i>TRP1</i>	This study
yR-a-47	4436 <i>PRE1-mNeonGreen-T_{ADH1}-C.g. TRP1</i>	<i>TRP1</i>	This study
yR-a-60	4436 <i>RSP5-mNeonGreen-T_{ADH1}-C.g. TRP1</i>	<i>TRP1</i>	This study
yR-a-136	4436 <i>TDH3-mNeonGreen-T_{ADH1}-C.g. TRP1</i>	<i>TRP1</i>	This study
yR-a-298	4436 <i>trp1::pNH604 P_{RSP5}-mNeonGreen-RSP5</i>	<i>TRP1</i>	This study
yR-a-299	4436 <i>trp1::pNH604 P_{YPT1}-mNeonGreen-YPT1</i>	<i>TRP1</i>	This study

FWP10	<i>ura4-294, h-</i>	-	Winston lab
FWP172	<i>ade6-m210, leu1-32, ura4-D18, h-</i>	-	Winston lab
DH0	<i>ade6::ade6+, leu1-32, ura4-D18, h-</i>	<i>ade6</i>	This study
DH159	<i>tdh1-NmGFPmut3-ura4-mGFPmut3, ura4-D18, leu1-32, h-</i>	<i>ura4</i>	This study
DH160	<i>tdh1-mGFPmut3, ura4-D18, leu1-32, h-</i>	<i>ura4</i>	This study
DH178	<i>tdh1- NmGFPmut3-kanMX6-HSV1tk-mGFPmut3, ura4-294, h-</i>	kanMX6	This study
DH179	<i>tdh1-mGFPmut3, ura4-294, h-</i>	-	This study