

S1 Table. Yeast Strains.

Strain	Relevant Genotype	Genomic Ty1s	Source
YEM514	<i>MATα, his3-Δ200hisG, ura3, spt3-ΔKanMX4</i>	Ty1-less, +1 Ty1-4253his3- <i>AI</i>	(1)
YEM570	YEM514	+7 Ty1	E. Matsuda
YEM568	YEM514	+14 Ty1	E. Matsuda
YEM572	YEM514	+21 Ty1	E. Matsuda
YEM515	YEM514	+37 Ty1	(1)
DG3582	<i>MATα, his3-Δ200hisG, ura3, trp1</i>	Ty1-less	(2)
DG3710	DG3582	+2 Ty1his3- <i>AI</i>	This study
DG3716	DG3582	+2 Ty1his3- <i>AI-N183D</i>	This study
DG3713	DG3582	+1 Ty1his3- <i>AI</i>	This study
DG3725	DG3582	+1 Ty1his3- <i>AI-K186Q</i>	This study
DG3719	DG3582	+1 Ty1his3- <i>AI-A273V</i>	This study
DG3722	DG3582	+1 Ty1his3- <i>AI-I201T</i>	This study
DG2533	<i>MATα, his3-Δ200hisG, ura3</i>	Ty1-less, +1 Ty1-4253his3- <i>AI</i>	(3)
YEM13	DG2533	+14 Ty1	E. Matsuda
YEM14	DG2533	+21 Ty1	E. Matsuda
JM487	DG2533	+18 Ty1- <i>K186Q</i>	This study
JM506	DG2533	+20 Ty1- <i>K186Q</i>	This study
JM484	DG2533	+14 Ty1- <i>I201T</i>	This study
JM503	DG2533	+19 Ty1- <i>I201T</i>	This study
DG3508	DG3582, <i>spt3-ΔKanMX4</i>	Ty1-less	This study
DG3664	DG3582	Ty2-917his3- <i>AI</i>	This study
DG2196	<i>MATα, his3-Δ200hisG, ura3, trp1</i>	Ty1-less, +1 Ty1his3- <i>AI(96)</i>	(4)

Supplemental References for Strains

1. Matsuda E, Garfinkel DJ. Posttranslational interference of Ty1 retrotransposition by antisense RNAs. *Proc Natl Acad Sci U S A*. 2009;106(37):15657-62.
2. Saha A, Mitchell JA, Nishida Y, Hildreth JE, Ariberre JA, Gilbert WV, et al. A trans-Dominant Form of Gag Restricts Ty1 Retrotransposition and Mediates Copy Number Control. *J Virol*. 2015;89(7):3922-38.
3. Garfinkel D. Genome evolution mediated by Ty elements in *Saccharomyces*. *Cytogenet Genome Res*. 2005;110(1-4):63-9.
4. Garfinkel DJ, Nyswaner K, Wang J, Cho J-Y. Post-transcriptional cosuppression of Ty1 retrotransposition. *Genetics*. 2003;165(1):83-99.