

S2 Table. Diploid strains used to measure % tetratype, spore viability, meiotic progression, genetic map distances and for whole genome recombination mapping.

Diploid strain	Relevant genotype
Spore autonomous fluorescent protein assay [56], meiotic progression assay [93], and Sgs1 overexpression.	
EAY3252/EAY3486	<i>MLH3/mlh3Δ</i>
EAY3255/EAY3486	<i>mlh3Δ/mlh3Δ</i>
EAY3490 to EAY3708/EAY3486	<i>mlh3-1 to mlh3-60/mlh3Δ</i>
EAY3339/EAY3552-53	<i>MLH3/mlh3-32</i>
EAY3819-20/EAY3486	<i>mlh3-D523N/mlh3Δ</i>
Tetrad analysis [7]	
EAY1112/EAY2413	<i>MLH3/mlh3Δ</i>
EAY1848/EAY2413	<i>mlh3Δ/mlh3Δ</i>
EAY3713-14/EAY2413	<i>mlh3-6/mlh3Δ</i>
EAY3715-16/EAY2413	<i>mlh3-23/mlh3Δ</i>
EAY3717-18/EAY2413	<i>mlh3-32/mlh3Δ</i>
EAY3719-20/EAY2413	<i>mlh3-42/mlh3Δ</i>
EAY3721-22/EAY2413	<i>mlh3-45/mlh3Δ</i>
EAY3723-24/EAY2413	<i>mlh3-54/mlh3Δ</i>
Whole genome recombination mapping [34, 64]	
KTY618/KTY610	<i>SK1-MLH1/mlh1Δ, SK1-MLH3/mlh3Δ</i>
KTY618/KTY616	<i>SK1-MLH1/mlh1Δ, SK1-mlh3-23/mlh3Δ</i>
KTY618/KTY614	<i>SK1-MLH1/mlh1Δ, SK1-mlh3-32/mlh3Δ</i>
KTY618/KTY621	<i>SK1-MLH1/mlh1Δ, SK1-mlh3-D523N/mlh3Δ</i>
KTY618/KTY626	<i>SK1-MLH1/mlh1Δ, mlh3Δ/mlh3Δ</i>

The indicated haploid strains were mated to form the diploids with the relevant genotype shown.