Table S1. Strain genotypes.

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| **Strain number** | **Trp5 orientation** | **Relevant Genotype** |
| GCY2196 | F | *MATα his3Δ200 ura3-52 leu2 Δ1 trp5G148Cm lys2CT1265GA* |
| GCY2297 | R | *MATα his3 Δ200 ura3-52 leu2 Δ1 trp5G148Cm lys2CT1265GA* |
| GCY2335 | F | GCY2196 *msh6 Δ::HygMX*  |
| GCY2336 | R | GCY2297 *msh6 Δ::HygMX*  |
| GCY2414 | F | GCY2196 *msh2 Δ::hphMX4*  |
| GCY2408 | R | GCY2297 *msh2 Δ::hygMX*  |
| GCY2458 | F | GCY2196 *msh3 Δ::KanMX*  |
| GCY2459 | R | GCY2297 *msh3 Δ::KanMX*  |
| GCY2588 | F | GCY2196 *msh3 Δ::KanMX* *msh6 Δ::HygMX*  |
| GCY2589 | R | GCY2297 *msh3 Δ::KanMX* *msh6 Δ::HygMX*  |
| GCY2615 | F | GCY2196 *msh6 Δ::HygMX*  *rad27 Δ::KanMX*  |
| GCY2627 | R | GCY2297 *msh6 Δ::HygMX*  *rad27 Δ::KanMX* |