

Oligonucleotides		
Name	Sequence	
4HPPD_sgRNA1_Fw	TTCGATTCCGGGTCGGCGCAGGTTGGAC CACGTCCACTGGTACGTGTTTA	gRNA construction
4HPPD_sgRNA1_Rv	GCTCTAAAACACGTACCAGTGGACGTGG TCCAACCTGCGCCGACCCGGAAT	gRNA construction
GGP_G1_4HPPD_Fw	GGGGATCCGGTCTCTAATGTCACCTTCC GTCGAAGT	Gene amplification and adaptation to the GG system
GGP_G1_4HPPD_Rv	GGCCTAGGGGTCTCTTAGACTAAAGGTT GCCTCGCTTGG	Gene amplification and adaptation to the GG system
ForT7Verif_4HPPD_Fw	ATGTCACCTTCCGTCGAAGT	Verification of <i>4HPPD</i> disruption by Cas9
ForT7Verif_4HPPD_Rv	GAACCTCGGTGCAAATGTCCT	Verification of <i>4HPPD</i> disruption by Cas9; verification of <i>4HPPD</i> cassette insertion into the genome
hph intern Fw	CATCCCTGAGGTTCTCGAC	Verification of <i>4HPPD</i> cassette insertion into the genome; verification of <i>scARO3K22L</i> cassette insertion into strain JMY7997
Aro1_insert3_Fw	CAACCTGGGCCTCAAGACCGCCGTTGAG C	Verification of <i>YIARO1-YIARO2</i> cassette insertion into strain JMY7997
Aro2_insert1_Rv	GCTCGCCGAGGCCGACGGGGCAGTTCC G	Verification of <i>YIARO1-YIARO2</i> cassette insertion into strain JMY7997
Aro4_insert4_Fw	TTGGGAGACTACCGTGGACATGCTCACC G	Verification of <i>YIARO4K221L-YIARO7G139S</i> cassette insertion into strain JMY7997
Aro7_G139S_insert1_Rv	ACCGAGGAATAGTTCTCGGGCTGATCTC CAG	Verification of <i>YIARO4K221L-YIARO7G139S</i> cassette insertion into strain JMY7997
Aro3scK222L_qRTPCR_Rv	CACTGAGCAGCCGTATTTCA	Verification of <i>scARO3K22L</i> cassette insertion into strain JMY7997
Aro8_qRTPCR_Fw	CAGATGGACGAGTTCAAGCA	Verification of <i>YIARO8-YIARO10</i> cassette insertion into strain JMY7997
Aro10_qRTPCR_Rv	CATCGTTGTTGAGCAGGAAA	Verification of <i>YIARO8-YIARO10</i> cassette insertion into strain JMY7997

Supplemental Table S1. Oligonucleotides used in this study.