

Table S1 Primers used in this study.

Primer name	Sequence (5'-3')	Additional information
VK3b_5_3	GGCGCGCGTACGCGCCCGGGAGCCCAAGGGCACGCCC TGGCACCCGTAAACGAGACAATTTATAAATGC	Forward primer for LA: includes Ascl (orange) and 40 bp attB (blue)
VK3b_3_1	GGATCCTCTGTTTGCTATGGGCTGAA	Reverse primer for LA: includes BamHI (orange)
f06252_5_2	TTCAGCCCATAGCAAACAGAGGATCAGAGGCTATACAAG TTAGAAAGTTGA	Forward primer for RA: includes complementary sequence to VK3B_3_1 for SOEing (orange)
f06252_3_1	TTAATTAATGAAGTTCCTATACTTTCTAGAGAATAGGAACT TCGCATTAATAGTCGCAATTATATTTCA	Reverse primer for RA: includes PacI (orange) and 35 bp FRT (blue)
PacmanMCS-F	TTTAAACCTCGAGCGGTCCGTTATC	
tsh-5-vk3b-check-R	GGTTCAGCGGGACTAAGTGA	
tsh-3-06252-check-F	TGAACACACCCATAGGACGA	
PacmanMCS-R	CTAAAGGGAACAAAAGCTGGGTAC	
tshNC1_GalK_F	GCATCTTCTGCTTCTTCTCATCTTCTTTTGGCTTCTTGAT GGACAGAACCTGTTGACCAATTAATCATCGGCA	Forward primer for tshNC1 deletion: includes 50 bp homology adjacent to tshNC1 (blue)
tshNC1_GalK_R	CCACCCTTTCCAACCAACATCCCCTTCACTCAGTGTGAA GAAGAATCCTCAGCACTGTCTGCTCCTT	Reverse primer for tshNC1 deletion: includes 50 bp homology adjacent to tshNC1 (blue)
tshNC2_GalK_F	TATGTACACACTCCGGTACCAGTATTTTGCCTGCCTTGAC GTAATGCCGCCTGTTGACAATTAATCATCGGCA	Forward primer for tshNC2 deletion: includes 50 bp homology adjacent to tshNC2 (blue)
tshNC1_GalK_R	CCACCCTTTCCAACCAACATCCCCTTCACTCAGTGTGAA GAAGAATCCTCAGCACTGTCTGCTCCTT	Reverse primer for tshNC2 deletion: includes 50 bp homology adjacent to tshNC2 (blue)
NC1check1for	TGCATCGGAGACAGAGGGAGCA	
NC1check1rev	ACCACACCCATGCCCTATGCC	
NC2check1rev	TGGCCGAAAGGAGGCAGCAAC	
tsh_RRF3	TTGGCACGCCAACTCAACGC	
tsh_RRR3	TGGCAATGGTGCGGCCATCT	

tsh_RLF	TCTTCGTTGCGTGCGGTGGG
tsh_RLR	TGCTGCAGTAGAGAGACACGGGG
SNP2F	TGCGCAGCAGTGCTCTTGAAA
SNP2R	AAAAGCCGCAAACAGCAGGCA
SNP5F	AGCAAGCGCGGCGTGAAAAT
SNP5R	AGGATTTGGTGCGGCTTGGTGA
SOE_eF	TCGCGGTGCGAGCTGTGATT
SOE_eR	TCGCACGTTCTGCTCGCTT
PacBK_5	GATCGGCGGCGCCGGGTACCGGGC
PacBK_3	GATCGCCCGGTACCCGGCGCCGCC
