**S2 Table Primer Sets Used**

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| **Oligo** | **Sequence 5’ 🡪 3’** | **Purpose** |
| LctraIR1F\_XN | AAATCTCGAGCCATGGTTCGACAGAATCAAGTTCACCGGAAAGATATCGTC | Generate Fragment 1 of LctraIR with XhoI and NcoI added to 5’ end |
| LctraIR1R\_A | AAATCCTAGGCTGAGGTGTTGCGGGTATAATAGCAGTTGTTAAGG | Generate Fragment 1 of LctraIR with AvrII added to 5’ end |
| LctraIR1F\_H | GTTGAAGCTTCGACAGAATCAAGTTCACCGGAAAGATATCGTC | Generate Fragment 2 of LctraIR with HindIII added to 5’ end |
| LctraIR1R\_N | GTTGGCTAGCTGAGGTGTTGCGGGTATAATAGCAGTTGTTAAGG | Generate Fragment 2 of LctraIR with NheI added to 5’ end |
| Lctra\_sgRNA\_fwd | GAAATTAATACGACTCACTATAGGTAAGACACCGGAAAGATCTGTTTTAGAGCTAGAAATAGC | *tra* specific primer for gRNA template preparation |
| LHA\_fwd | TGGAGCTCCACCGCGGTGGCCCGAAGTGCTTCAAATTC | Clone left homology arm |
| LHA\_rev | AGATCCTTCGCTTTCCGGTGTCTTACGTC | Clone left homology arm |
| hsp83\_ZsG\_fwd | CACCGGAAAGCGAAGGATCTGGTTCATAACATAG | Clone ZsG marker for KI |
| hsp83\_ZsG\_rev | TCTAGAAGCTTCAGGGCAATGCAGATCC | Clone ZsG marker for KI |
| p10pA\_fwd | ATTGCCCTGAAGCTTCTAGAATGAATCG | Clone p10pA for KI |
| p10pA\_rev | CTGCGCCCAGGTTAACTCGAATCGCTATC | Clone p10pA for KI |
| RHA\_fwd | TCGAGTTAACCTGGGCGCAGTGAAAGAC | Clone right homology arm |
| RHA\_rev | CGAGGTCGACGGTATCGATACCGAGTTTGATAGTTGTTGTTGC | Clone right homology arm |
| tra\_e2\_H83\_fwd | CGCAATACGGGCTGTAAAAC | Confirm location of insert in genome |
| tra\_e2\_H83\_rev | GTTAGCAGCCATGCACTGAA | Confirm location of insert in genome |
| tra\_qPCR\_fwd | TCAAACAACCCTAGATGCCCG | qRT-PCR of tra gene |
| tra\_qPCR\_rev | ATTAGTTTTACAGCCCGTATTGCGC | qRT-PCR of tra gene |
| Y\_spec\_set1\_fwd | TTCTGAGGGGACGTATGGTT | Genotyping primers- Y-linked set 1 |
| Y\_spec\_set1\_rev | AGGTCCATAATTGATCCTACCCC | Genotyping primers- Y-linked set 1 |
| Y\_spec\_set2\_fwd | TTTCACACTCATCGGACGGA | Genotyping primers- Y-linked set 2 |
| Y\_spec\_set2\_rev | GGTCAGGGCCAAATGTGTTT | Genotyping primers- Y-linked set 2 |