

**A**

Primer name	Sequence
CDXNC	5'- ATG TAC/T GTI A/TG/CI TAC/T C/TTI C/TTI GAC/T AAA/G GA- 3'
CDXCA	5'-TIC G/TT/CT CT/CT TIG CIC G/TIC G/TA/GT TT/CT GA/GA ACC-3'
CDXCD	5'-C/TTG IGC IGG ICG/T ICG/T CAT CCA C/TTC-3'

**B**

Oligonucleotide	Sequence
Wild-type	5' AATAGTGAGTTGT <b>TATAAA</b> ACCGAATCGGAA 3' 3' TTATCACTCAAC <b>ATATTT</b> TGGCTTAGCCTT 5'
Mutant	5' AATAGTGAGTTGT <b>GCGTG</b> ACCGAATCGGAA 3' 3' TTATCACTCAAC <b>ACGCACT</b> TGGCTTAGCCTT 5'

**C**

55,930,061 55,929,966  
AATTCCGATTCGGT **TTTATA**CAACTCACTATTAGCCCTGAGATAATATTAACCTTTGATCAAATATTGACTTGAAGCGCCTCCAAATCCTCCCC **Zebrafish LG 17**  
AAATGGGTCCTTT **TTTATA**CGACACACTGTTAGCCTTGAGATAATATTAACCTTTGTATCAAATATTGACTTGCAGCGCCTCCAAATCCTCTTC **Human LG 20**  
AAATGGGTCCTTT **TTTATA**CGACACACTGTTAGCCTTGAGATAATATTAACCTTTGTATCAAATATTGACTTGCAGCGCCTCCAAATCCTCTTC **Mouse LG 2**  
H-22,512,680 22,512,586  
M-147,737,127 147,737,033

**D**

7,214,924 **5' upstream region** 7,214,992  
TTAAGTTGTTT **TTTATG**GTGCCTCAGGGAGAGATATTTACACCCCTATTTAACCGTTCAATACAGCCAG **Zebrafish LG 23**  
TA AATGGCTT **TTTATG**GGACAGCAGGGGTAGATATTTACACCCCAATTTATCTTTCTTCATTGTTTG **Stickleback LG XII**  
2,544,560 2,544,628  
7,247,813 **3' UTR** 7,247,928  
GGGAGGCAAAAAATGCCTT **TTTATG**GCTACTGAACGTTTCATGGCTTAGTGTGTAATGATACCTTTTAAGATA CATTATTTATGTTGAGATAAGAATGTGGAGGCCACACA AG **Zebrafish LG23**  
GTGGGGAGAAAAATACCTTT **TTTATG**GCTGTTGAACATTTCTCATTACAGGTGTGATGATTAACCTTTATG GCGCCATTATTTATGTTGAGATAAGGACAGTTGA AAGTCATGTG **Stickleback LG XII**  
2,560,280 2,560,397

**Fig. S1**