



ZKO1164

target Position: exon 12

Sense Strand Sequence

ACAGTCAACACTAAGGCAGGAGTCTCTACATTGAAGATCACTgtaagacttgccgtctcatctgt
actgatgttagacagttgtagtgcaaaatgtattacttaacagacgttaacaagccaatagcaaaactgtacacatcacatcaaaaata
aatattgtctttttacagGCAACGACCAGAGATCCTGAATTGGCCAATGAGCAGCAGGC **GGA**
TAAGACAATGATTGCTCAGGCCTACAAAACCAATCTTGGCTCCAAAAATTACCTGC
ATATCAACATTGAGTCAGCAGAGTTTGAGATTGGTGATCAAATGACAGTTTATCTG
AACACTGGAGAAAGTCCAGGAGTCAAAGATCAAGATTTCACTTACATGgtaataattaag
gttatcctttcccctcacttctattaattgaaacggttgagttgactaatggtgttgattttctacctcttttagATCTTGAGTAA
AGGTCAGATTGTTCTAGCAGAAAGGTTTAAGAGGCAAGGACAACTCTAGTCTCT
CTGTCTCTACCTGTGACCAAAGACATGGTGCCGT **CCTTCCGCTTCGTGGCTT**

Uppercase: Exon/coding sequence

lowercase: intron/noncoding sequence

ACAGTCAAC: Forward/Reverse primer

GGATAAGAA: cas9 target site

ZKO1164a: 3 bp deletion and 7 bp insertion

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

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WT          AGCAGCAGGCGGATAAGACAATGATTGC----TCAGGCCTACAAAACCAATCTTGGCTCC
ZKO1164a   AGCAGCAGGCGGATAAGACAATGATTACAAAACCAGGCCTACAAAACCAATCTTGGCTCC
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