

ZKO190

Target Position: exon5

Sense Strand Sequence

gaaggctttcacagttatttgtttatatagttatattttaagttatgcacatgaagacatttttagtagtgataagttaccaa
gtaacttgtgcatagctggttgcaactcttctcttttttttcttaagattatgcaaatgattgttctacacatgatcacttt
cattttcaacatgcattattttcatgcttctaattgcttttagAAACGAAAGCTTAAGCAAGGAAAAGACA
AGAAGATAATGAAAAGAAAAGAGATGAATATGGGCTTGCTAAGAAGGATGAAGAGGAATT
CACAAAGAGgttaatctactccagagattagtttactgtataatgttttctgttaaaggaatagttcacccaaacatgta
cattaacacaaaggaaaatattttgaaaaatgttgaaaccagttcacattgactgaaacattactatgaaagttaatgtc
tccgatattcaactga

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO190a: 2bp deletion, 20bp insertion

CLUSTAL format alignment by MAFFT G-INS-i (v7.215)

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WT          GACAAGAAGATAATGAAAAGAAAAGAGATGAATATGGGCTTGCTA-----
ZKO190a     GACAAGAAGATAATGAAAAGAAAAGAGATGAATATGGGCTTGCTATTCAGGATGGATGA
*****

WT          ----AGAAGGATGAAGAGGAATTCACAAAGAG
ZKO190a     AGAGGAAAGGATGAAGAGGAATTCACAAAGAG
..*****
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