

ZK093

Target Position: exon 2

Sense Strand Sequence

gttcacagtgaggatgactcctctgaatattaaaaactgtggccttagttatgtgatatgatgtgtaaagaattgggt
gcatctgaaataacgggtgcactagaacaactcaaagtggtctttcttcagtctgaatagttgtgtttgtatgcctcctcagT
TGCACAATGAGGATGACTCCTCTGAAGGGGCCAGTGCTGAACCGTCCACATCCACCCAG
GCCGTTGGCGCTTTGGAGGGAATCAGCAACCTAGCAGTGGATACAGAAGCTCCACCTCCTCC
ATATGCAAGCGTGGCACTTGGAGCAACAGCTGCACCAGgtatggagatccaaaaagattgatcatttcct
catttgatctgatctgattgatcattaaaccctcggccagatcacacgattttattgtcggttatgaaagtcagattatgtg
gttattgtcttgataa

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK093a: 11bp deletion, 1bp insetion

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

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WT          CCGCCAGTGCTGAACCGTCCACATCCACCCAGGCCGTTGGCGCTTTGGAGGGAATCAGCA
ZK093a      CCGCCAGTGCTGAACCGTCCACATCCACCCAGGCCGTTGG-----AGAATCAGCA
            *****
            .*****

WT          ACCTAGCAGTGGATACAGAAGC
ZK093a      ACCTAGCAGTGGATACAGAAGC
            *****
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