

ZK039

Target Position: exon 4

Sense Strand Sequence

tgatgaactatagcagcgtctgatggagaagatgaagatagaatgtgaggattcagcaaacacgacacactcttagtgca
ctcagtagtgctccaccacacactcactcactcactcctctaagtgactactgtagtgagtaagggtacaggggggatg
tgatTTTgaaaacagtgtgtgtgttcagctgtgctcgagtgatgtacgtgtgtgtgtgtgttcagCTGTCGGTGGCC
TGTAACCGTCTGGTGCATGATGAACGTCTGCAGACTCACGCAGCTGCGGGTCTGGACCT
GCAGAATAACAGCATCGGCTGCATCGAGGGCCTGAAGGAGCTGCAGCAGCTGGAGCGCCTC
AACCTGGCCGGGAACAACATCAAGgtgagtggtgtctgcagcggagttcacctgagcatacggtcacacaca
cacacacactcctgctctgctgtttgtgagGTGATGGAGCAGCTACACCACTGCGTCTCCCTGCAGCAC
CTCGACCTGTCTGATAATAATATCTCGCAGATCGGAACGCTGTCCAGGCTCTCGGC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK039a: 4bp deletion

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

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WT          ttgtgcagGTGATGGAGCAGCTACACCACTGCGTCTCCCTGCAGCACCTCGACCTGTCTG
ZK039a     ttgtgcagGTGATGGAGCAGCTACACCAC-----TCTCCCTGCAGCACCTCGACCTGTCTG
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