

ZK079

Target Position: exon 2

Sense Strand Sequence

cagACCCCTCATGGTTAGGTAATTTGCAAATTTTAAAAGTGAGTAAATTCTGACTCCTAGCTCT
TCATCATCTTCATCATCCCTGCTGTCCGCATGCCTCTTGTGTTTGTGTACGGGACACTAAAGAAA
GGCCAGCCGAATTATTTTAGATTGATTGACTCTAGCAATGGGCAAGCTGAGTTCATCACTTGT
GCCCCAACCGTAGAGCCATACCCACTGGTGATCACTGGCGAATGCAACATCCCCTTCCTGCTG
AATGTGCCTGGCTCTGGACAGCGGGTCTACGGTGAGATCTACAGCGTTGACCAGAAGATGCT
GGAGTTTCTGGACTGGTTTGGAGGAATGTCCAGACTGGTACCAGCGCACCCCTCATCCAGCTGG
AGATCCTGAAGGGGAATGGTGAAGTGAAGTTGAGGAGGCTTTTGTTTACACCAAAACTAAA
TATGAACCCGACTGGCTCAACAAGCCCAC

Uppercase: intron/noncoding sequence

Lowercase: exon2/coding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK079a: 4bp deletion

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

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WT          CAACATCCCCTTCCTGCTGAATGTGCCTGGCTCTGGACAGCGGGTCTACGGTGAGATCT
ZK079a      CAACATCCCCTTCCTGCTGAATGTGC-----CTCTGGACAGCGGGTCTACGGTGAGATCT
            *****                               *****
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ZK079b: 4bp deletion, 5bp insertion

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

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WT          GAATGCAACATCCCCTTCCTGCTGAATGTGCCTGGCTCTGGACAGCGGGTCTACGGTGAG
ZK079b      GAATGCAACATCCCCTTCCTGCTGAATGTAGAC-CCTCTGGACAGCGGGTCTACGGTGAG
            *****                               *****
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