

ZK043

Target Position: exon 3

Sense Strand Sequence

cattcatttcttttcggcaacccatctctgggaaacatccacacacactcatacactacggacaatttagcccaccaattc
acctgtactgcaagtctttagactgtggaggaaactggagcacctggaggaaacccatgccaacgcagggagaacatgc
aaactccagagctcagcatcgagaagcttttcctttcactagataagcacagcaccactcctgtccctgtaagcatttctgct
ctattctgttttctaacagGGTCAGTATAAATTTCAATTGTCCAGCAATTACTCATGGGACACAGAAATG
CGGTGCCGAGTGGCCGTACCTGGAGGTGCGCAAGCTGGCTGTGCTCAGCGATGCAGAACAG
GTCCATTTCGA**GGAGAACATGGCTCTTCTGG**CGGCCGTCGAGTACTGCGAGTTCAAATCGtg
agtgtgaatgactctactaataatagaattagtctaataatgaattgcacagctcatgaccttcttggtctgtctctct**gtaagT**
GTCCGAGCTGCGAGT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK043a: 1bp deletion, 11bp insertion

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

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WT          GATGCAGAACAGGTCCATTTTCGAGGAGAACATGGCTCTTC-----TGGCGGCCGT
ZK043a      GATGCAGAACAGGTCCATTTTCGAGGAGAACATGGCTCTTCGAGTACTTCGAGGCCGCCGT
            *****
            *****

WT          CGAGTACTGCGAGTTCAAAT
ZK043a      CGAGTACTGCGAGTTCAAAT
            *****
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