

ZK0854

Target position: exon4

Sense Strand Sequence

actgatgcagtcctgtcgtgtaaaacatgtttaccacttttttctcattatgattcattctttccaggattttaattcctgt
gaagtattattattgctattttatttttttctgtattttatattgtaacaaaataataaaaaataatagattattgtaaaaa
atgtaaactatcatgcagtcgtagttttgacattcattattgagattaatgcggcaatgcagaatgttatttgattggttcat
tttctttgctgctcatctgattgtatctaaaccaccactgcttatgtctcattcttttctctctctctctgtttgctcctc
cccagCCTCCCTGGTACCAGCCCCCTCCTCCGCCTCCACCTGTCATGCGTCCCAAGCTGGCGAC
CACACCTATTGTCCACGGCCTGTCAAACCAGCCTCCAACATGTCGGTCTGCGCCGGCGCCG
CGTGC GTTCAAACGCTGCGAGGCCTGTCTGCGCACAGAATGTGGCGACTGCAACTTCTGCC
GAGACATGAAGAAATTTGGCGGCCCTGGCAAGCTCAAACAGACCTGCGTCCT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0854a: 29bp deletion, 5bp insertion

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

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WT          CACACTGCTTATGTCTCATTCTTTTCTCTCTCTCTCTGTTTGTGCGTCTCCCAGCCT
ZK0854a     CACACTGCTTATGTCTCATTCTTTTCTCTCTCTCTCTGTTTACCCC-----
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WT          CCCTGGTACCAGCCCCCTCCTCCGCTCCACCTGTCATGCGTCCCAAGCTGGCGACC
ZK0854a     -----CCCCTCCTCCGCTCCACCTGTCATGCGTCCCAAGCTGGCGACC
*****
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ZK0854b: 36bp deletion, 8bp insertion

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

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WT          CACACTGCTTATGTCTCATTCTTTTCTCTCTCTCTCTGTTTGTGCGTCTCCCAGCCT
ZK0854b     CACACTGCTTATGTCTCATTCTTTTCTCTCCCTCTGTT-----
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WT          CCCTGGTACCAGCCCCCTCCTCCGCTCCACCTGTCATGCGTCCCAAGCTGGCGACC
ZK0854b     -----TACCAGCCCCCTCCTCCGCTCCACCTGTCATGCGTCCCAAGCTGGCGACC
*****
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