

ZKO1133

Target Position: exon 1

Sense Strand Sequence

ACAATGGAGAATCTACTGAAGGCCGACTTCTTCAACACA ACTAATGACACCATTA AACCATG
ATGTCCACTGTGATCTCAGCTACTCTTCCCAA ACCAGCAACTGCACTCACCA AAGCAGTC
AACTTCACCTTCAGACACATCAGAgtgagagactgaaatgtgttttagtccaacatcagcactgatcaacatct
gaacacatctaataattcactctgctcatat tttctgctgtttcttcttcttctgcagGAGTTTGAGCCCAGCGGTT
CTCTGTCCTGTGTGTACTGGAATATCAGCGAGTGGATTGTAGATGGTTGTTCTGTGTAAACAG
CAACAGCAGCCACACTGTGTGTTCTGTGTT CATCTGTCCACATTCGCTCTCATCATGCAGACC
AGCAGCAGTCCACCAGAATCGGTACCAGAACAT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO1133a: 1bp deletion, 15bp insertion

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

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WT          TACTCTCCCAAACCAGCAACTGCACTACCAAAGC-----AGTCAAC
ZKO1133a    TACTCTCCCAAACCAGCAACTGCACTACCAAAGTATATGGTATATGGAAGTCAAC
*****.*****
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WT          TTCACCTTCAGACACATCAGAgtgagagactgaaatgtgttt
ZKO1133a    TTTACCTTCAGACACATCAGAgtgagagactgaaatgtgttt
**.******
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ZKO1133b: 1bp deletion

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

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WT          TACTCTCCCAAACCAGCAACTGCACTACCAAAGCAGTCAACTCACCTTCAGACA
ZKO1133b    TACTCTCCCAAACCAGCAACTGCACTACCAAAG-AGTCAACTCACCTTCAGACA
***** *****
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WT          CATCAGAgtgagagactgaaatgtgttt
ZKO1133b    CATCAGAgtgagagactgaaatgtgttt
*****
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