ZKO277

Target Position: exon 1

Sense Strand Sequence

agggtgataagaaaactcccaaattaccctctttaataatctttgactctaacgtgtttaaaaattatggaatttattaagta
tggtgatttttttttttttaccctgtttacctggaaaattattgatggttctctctctctctctctctctctctctctctctctct
ctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctctct
ctctgtcagcgtgtTCCATGGGCAGCGGCAGCAGCAGTCTCTACAGTGCACTGGCCAAGAGCATCA
GCAGATCTCCTCTCCCTCACTCCTGTGGCTCTACGTACAGTCCCGGTGACAATCTGAATCTGGA
TCAGGACCCGGCCGACCCGCTGGAGCTGCTGCAGGAATGTAGAGAGGCTCTGAGAGAGCG
GCCAGCTCATCTGAAGAGAGCTTTCGTTCAGACAGGACATG

Uppercase: Exon/coding sequence
Lowercase: intron/noncoding sequence
atcg : Forward/Reverse primer
atcg : cas9 target site

ZKO277a: 4bp deletion, 20bp insertion

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

WT              TCAGCAGATCTCCTCTCCCTCACTCCTGTG----------------GCTCTACGTACAGT
ZKO277a         TCAGCAGATCTCCTCTCCCTCACTCCCTCACTCTCCCTCACTTTATGCTCTACGTACAGT
                ***************************. ..                **************

WT              CCCGGTGACAATCTGA
ZKO277a         CCCGGTGACAATCTGA
                ****************
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ZKO277b: 1bp deletion

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

WT              TCAGCAGATCTCCTCTCCCTCACTCCTGTGGCTCTACGTACAGTCCCGGTGACAATCTGA
ZKO277b         TCAGCAGATCTCCTCTCCCTCACTCCTGT-GCTCTACGTACAGTCCCGGTGACAATCTGA
                ****************************** ******************************
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