

ZKO431

Target Position: exon 2

Sense Strand Sequence

ggatgaggataataaaatgccagtacactacttttagatgtacgtgtatcttctcatgagatcaagtttagcceaacctaa
ctactcttttatttttacacccatttttctcttaaatcacatacactgactcaatctaaagtaaattgctcacacaaca
cacacttctctaaacattcctacaattagttcattcaggagctccagactggagaccagaggcccccggtctgggATGT
GTACCTTACTCAATGACCCCTTTGTGGGGCTAGTATTATAAAGCCAGACTGCACCTCCAACAC
CTCCTCAGTCCATTACACCTTCGCCATGAGATCCATATGCAGCTGTGCTTTCCTTTTGGTCTGCT
TCATCTGGGCCACAGACGCACAGAACAGCAGTAACCACATCGAAATCACCCAACACAGCCGG
CCCCAGCCACAGCCGAAAGCAAACCTCTGGGATGAGCCTATTCGCTTCAAACACCAAGCCAA
AGACACCTG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO431a: 4bp deletion

CLUSTAL format alignment by MAFFT G-INS-i (v6.850b)

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WT          ATAAAGCCAGACTGCACCTCCAACACCTCCTCAGTCCATTACACCTTCGCCATGAGATCC
ZKO431a     ATAAAGTCAGACTGCACCTCCAACACCTCC----TCCATTACACCTTCGCCATGAGATCC
          *****
          *****
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WT          ATAT
ZKO431a     ATAT
          ****
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ZKO431b: 1bp deletion ,5bp insertion

CLUSTAL format alignment by MAFFT G-INS-i (v6.850b)

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WT          AGCCAGACTGCACCTCCAACACCTCCTCA----GTCCATTACACCTTCGCCATGAGATCC
ZKO431b     AGCCAGACTGCACCTCCAACACCTCCTCACCTCCTCCATTACACCTTCGCCATGAGATCC
          *****
          *****
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WT          ATAT
ZKO431b     ATAT
          ****
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