

ZKO224

Target Position: exon 3

Sense Strand Sequence

atgcagattccgtgtatcatttaattattcctaagatgtcatttatgcacagtatttctatggtttaagtaagctgactcactgtt
ataaatgttattatcatatataatcaaatgattatagcatcttttttttttcttccagcagCATCCATCATGAATCCCAT
GTCACATCTATACTACAAAAAGAGCAGCTACTCTCCGTACCGGGACCGAATCCCTCTGCAGATC
GTCCGGGC GGAGGTAGAGCTCTCTCCAG AGGAGCGTGCGTTCCTTTTCGGCTGTGGAAAAGG
GCGACTATGCAGGAGTCCAGCATGCACTGCGTGAGGCTGAGGTCTATTACAACATCGACACG
AACTGTGTGGATCCAATTGGCCGCACTGCTCTATTAATTGCCATTGAGAACGAAAACCTAGAG
GTGATGGAGCTGCTTC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO224a: 1bp insertion

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

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WT          CAGATCGTCCGGGCGGAGGTAGAGCTCTCTC-CAGAGGAGCGTGCGTTCCTTTTCGGCTGT
ZKO224a     CAGATCGTCCGGGCGGAGGTAGAGCTCTCTCAGAGGAGCGTGCGTTCCTTTTCGGCTGT
*****
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ZKO224b: 70bp deletion

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

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WT          CATGAATCCCATGTCACATCTATACTACAAAAAGAGCAGCTACTCTCCGTACCGGGACCG
ZKO224b     CATGAATCCCATGTCACATCTATACTACAAAA-----
*****
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WT          AATCCCTCTGCAGATCGTCCGGGCGGAGGTAGAGCTCTCTCCAGAGGAGCGTGCGTTCCT
ZKO224b     -----AGAGGAGCGTGCGTTCCT
*****
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WT          TTCGGCTGTGAAAA
ZKO224b     TTCGGCTGTGAAAA
*****
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