

ZKO213

Target Position: exon 1

Sense Strand Sequence

ctaaggacagcctgctatttctccaaactatagcatggccatgtgataaATGGATTGCTCAGCTTAATCAATGG
CTCCTCTGGGAGCAAAGACTTGCCATCGGGGAGGATTCATCTGACTTGACCCTGAACCACCC
TCTGCTGGAGCTGGGGACAGCACCAAGCTGCTGGGCGTCCAGGTGTTCTGATCTTGGCGT
ACTCCACCATCATCCTCTGGGCGTTGTGGGGAAGTCTCTGGTGATTATGTGGTTTACAAGTT
TAAGACCCTCCGTACTGTCACCAACTTCTTCATTGCGAACCTAGCC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO213a: 12bp deletion, 5bp insertion

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

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WT          TGACCCTGAACCACCCTCTGCTGGAGCTGGGGGACAGCACCAAGCTGCTGGGCGTCCAGG
ZKO213a     TGACCCTGAACCACCCTCTGCTGGAGCTGGGGGGT-----GTATGCTGGGCGTCCAGG
*****. . *****
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WT          TGGTCTGATCTTGGCGTACTCCACCATC
ZKO213a     TGGTCTGATCTTGGCGTACTCCACCATC
*****
```

ZKO213b: 38bp deletion, 16bp insertion

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

```
WT          TGACCCTGAACCACCCTCTGCTGGAGCTGGGGGACAGCACCAAGCTGCTGGGCGTCCAGG
ZKO213b     TGACCCTGAACCACCCTCCAAGGAGCTGGGGGA-----CAGG
*****. *****
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```
WT          TGGTCTGATCTTGGCGTACTCCACCATC
ZKO213b     TGGTCTGATCTTGGCGTACTCCACCATC
*****
```