

ZKO1012

Target Position: exon 2

Sense Strand Sequence

```
CTTATGGTCATCCAGACGCTGCCCTGCACGACTACAAGCTCCTAAAGCAGAACATGAGCGTGA
GCTTCGCCGAACCCTACCGGAACCTCAAGACCCTCCGCTCCGAAAGCGACTTCTACACGGCG
GCGACCGGAGACGTGGGCTCGCTGAAACTCGCCTCTCCGGAGCTAGAGAGACTCATCATCCA
GAACGGTAACGGCGTCATCACATCACCCACGCCGGGGCAGTATTTGTACGGTCCGAGCATCA
CAGAGGAGCAAGAGGGCTTCGCGGACGGATTCGTCAAAGCGCTGGACGAGCTCCACAAAAT
GAACCAAATGCCCCGCCGAACGTGTCCATCGGAGCCCCGGGGTGTGCGAGTTGTTCCGGTGG
CGTCGTCAGTCTTCGGCGCCTCCTTACCGCCCGAGACTCCGGGTGTACACCACCTGAACAGCT
GCAATCCTAACACTAACCTCACACCTGCAGCCAACT
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO1012a: 2bp deletion

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

```
WT          AGAGGGCTTCGCGGACGGATTCGTCAAAGCGCTGGACGAGCTCCACAAAATGAACCAAAT
ZKO1012a   AGAGGGCTTCGCGGACGGATTCGTCAAAA--GCTGGACGAGCTCCACAAAATGAACCAAAT
*****
```

ZKO1012b: 2bp deletion, 1bp insertion

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

```
WT          AAGAGGGCTTCGCGGACGGATTCGTCAAAGCGCTGGACGAGCTCCACAAAATGAACCAAA
ZKO1012b   AAGAGGGCTTCGCGGACGGATTCGTCAAAG-ACTGGACGAGCTCCACAAAATGAACCAAA
*****
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