

ZKO256

Target Position: exon 2

Sense Strand Sequence

```
tttcttaccacggattacttaaacatgtggactctcttcggaacatacgtaaagacaaaaatatctaacgtatatactct
gtggatattttgtaaagagtgatttttggactatgcactgtcgtgtcatcctctctctgcgttacctctgctctctggagtatt
attatcgaccaaagctgatgggtctgatgaagaaattaacccccagactggagaaagaccataaactccatccggagc
gggattcaccggatcgacaagtacctaacaatggctctggacctgatcggaggctcagacggccagtgtcagttcacgtgc
ggcgacggttcgtcagacatcagtaattcatacagcttgatacagtaacatttaataaaggctctgcgttttattcaagtg
gtaatgagttttgtctctcttccagGGTACACACCGGTTCCCTCGTCCTAACTACAGACCACCTCCACCA
AACGGATGTGGTTCACCGCTGTTGGGTTTCAGgtgaggaaaacagtgttgatattgacagaaatgtgtc
ctaaatgaaacatagtagtggtgggagtaa
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO256a: 10bp deletion

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

```
WT          ACTACAGACCACCTCCACCAAACGGATGTGGTTCACCGCTGTTGGGTTTCAGGTGAGGA
ZKO256a     ACTACAGACCACCTCCACCAAACGGATGTG-----GTTTGGGTTTCAGGTGAGGA
*****
*****
```

ZKO256b: 1bp insertion

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

```
WT          CTACAGACCACCTCCACCAAACGGATGTGGTTCACCGCT-GTTTGGGTTTCAGGTGAGGA
ZKO256b     CTACAGACCACCTCCACCAAACGGATGTGGTTCACCGCTGGTTTGGGTTTCAGGTGAGGA
*****
*****
```