

## ZKO257

Target Position: exon 2

Sense Strand Sequence

atgcaaccaatccaactcctttattattataagtgatcttaaagagattttatatgatacataattagttgtggttgagc  
tttacagaaacatgagatgtgataaatattcattcattttgtttcagtttagtccctttattaataaattattatattaa  
tattaaaaagactcttgagcgtgtgtaataataacaagaataattgtataattgtgtaccaataaattcttcaaatatgtt  
ttttctgcatcagAGGCCGTGTGCTTCGTGATGTCCAGGTGCTGACCCTGTACAGAGGACGCTAC  
ACCACGGCCC**GCCGCTCTAGCCGTGCC**CAGCTGCAGTGCATCGGAGGCTCCGCCGGCTG  
CGGATCCTTACTCCAGAGGTCGTGCAGTGTACAATAGAGGATCAGATGGCATCGACGCACA  
Ggtgacacgtttaaaaacaaccacaaccatt**taggaagtagccacagtcagcatct**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZKO257a: 28bp deletion

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

```
WT          CCTGTACAGAGGACGCTACACCACGGCCCGCCGCTCTAGCCCTGTTCCCAGCTGCAGTG
ZKO257a     CCTGTACAGAGGACGCTACACCACGGCCC-----GTG
            *****
```

```
WT          CATCGGAGGCTCCGCCGGCTGCGGATCC
ZKO257a     CATCGGAGGCTCCGCCGGCTGCGGATCC
            *****
```

### ZKO257b: 2bp deletion, 4bp insertion

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

```
WT          CCTGTACAGAGGACGCTACACCACGGCC--CGCCGCTCTAGCCCTGTTCCCAGCTGCAG
ZKO257b     CCTGTACAGAGGACGCTACACCACGGCCGTGACCGCTCTAGCCCTGTTCCCAGCTGCAG
            ***** . *****
```