

## ZKO1028

Target Position: exon 3

Sense Strand Sequence

**AGAGCCACTGTGGTGTGATG**TATTTAAGGGTACATGCGAGCAAGGTGGCAAATTTACAACCTAC  
TGCAGCATACCATCATACCGTATACAGTCACTACACCTATTTTAACTTATTTTTTATCCTCAAACA  
AAGAACTAAAAATAAATTAGCTTAAAGTATACCGGGGCCTTAGGGggacagcaaacagagttgtaa  
catgattgcataaaatattcttgataacatthttttcagAAGCGGGTCAAGTCGTTACTTTTACACGGCTCA  
CTTTCACCT**ACAGCGAATCCAACCAACC**ACTCAAGAGATTTCAAACACACTCCTGGCAG**CAG**  
**CGTTGCAGGACAAATC**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZKO1028a: 4bp deletion, 9bp insertion

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

```
WT          TTACTTTTACACGGCTCACTTTCACCTAC-----AGCGAATCCAACCAACCACTCAAGA
ZKO1028a    TTACTTTTACACGGCTCACTTTCACCTACATCCAACCAATCCAACCAACCACTCATGA
*****
* * ***** **
```

```
WT          GATTCAAAC
ZKO1028a    GATTCAAAC
*****
```

### ZKO1028b: 17bp deletion

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

```
WT          GTTACTTTTACACGGCTCACTTTCACCTACAGCGAATCCAACCAACCACTCAAGAGATT
ZKO1028b    GTTACTTTTACACGGCTCACTTTCACCT-----ACCACTCAAGAGATT
*****
*****
```

```
WT          TCAAACACACTCCTGGC
ZKO1028b    TCAAACACACTCCTGGC
*****
```