

## ZKO337

Target Position: exon 2

Sense Strand Sequence

AACATCAACGGACTTCTTCAGCTGATCAGAAAGAGCGGC AAAAAGAAACAGCAGAATCTGA  
AGACACAGTCACTGACGTTACGCCTTATCCACACCTAATATTAGTCCTTCCAGTCAATAGATG  
TGACAGCAGATGTTCAACAGCAGCCGGGCTTTACCGAAGAGAAGTTGGCGGATGATGTTTCG  
GACGGTCAGGCCAGCATAAGCTCTGAAGGAGAAAATGGACCAGGtttgtgcaataaattgaagtaa  
tcattttgtcatggctgtcctttaaattctcttctcaattttgcagAGTTTTTAAAAGTAGACAAACATTTTGAC  
CGAGTGCTCATGGTCTCCAGCCCTGCCAGTGTGTCGGCAGCCGTAAAACTATTCCTTCACA  
AATGAGAAGGTGCGGGAAT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO337a: 5bp deletion

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

```
WT          ACGCCTTATCCACACCTAATATTAGTCCTTCCAGTCAATAGATGTGACAGCAGATGTT
ZKO337a     ACGCCTTATCCACACCTAATATTAGT-----CCAGTCAATAGATGTGACAGCAGATGTT
*****
```

```
WT          CAACAGCAGCCGGGCTTTAC
ZKO337a     CAACAGCAGCCGGGCTTTAC
*****
```

### ZKO337b: 1bp deletion

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

```
WT          ACGCCTTATCCACACCTAATATTAGTCCTTCCAGTCAATAGATGTGACAGCAGATGTT
ZKO337b     ACGCCTTATCCACACCTAATATTAGTCCT-CCAGTCAATAGATGTGACAGCAGATGTT
*****
```