

ZKO336

Target Position: exon 1

Sense Strand Sequence

atcaatcaccgctcctctcgcgataatgaccctggatatattaggagcaaacacgagcactcgtcCATTGAAGGGT
CGTCGCAGGGATTCATATAGGGTCCTAAGGTGGTGAGATTGTCTTCCAGGAGATAGGACATCA
TGTCTGACGCAGCGATCAGCTTCTTGAA**GGATTCTTGGCCGGTGGTG**TGGCCGCTGCCATTT
CCAAGACAGCAGTTGCCCCATTGAGAGAGTCAAGCTGTTACTGCAGgtaggttttaaatctgcat
acataagattagaatcgaataatcgctgcatgtaatcacagttgcatatattagtgaggtagtgccctgaattaaagtga
ctgaaaattagttcatagtttgaacaattcagtaaattttgaactaattgatca**agaagagtaggcgaataaagg**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO336a: 17bp deletion

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

```
WT          ATCAGCTTCTTGAAGGATTTCTTGGCCGGTGGTGTGGCCGCTGCCATTCCAAGACAGCA
ZKO336a     ATCAGCTTCTTGAAGGATTTCTTGGCCGG-----TTTCCAAGACAGCA
*****                                         *****
```

```
WT          GTTGCCCCATTGAG
ZKO336a     GTTGCCCCATTGAG
*****
```

ZKO336b:60bp deletion, 5bp insertion

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

```
WT          CATCATGTCTGACGCAGCGATCAGCTTCTTGAAGGATTTCTTGGCCGGTGGTGTGGCCGC
ZKO336b     CATCATGTCTGA-----
*****
```

```
WT          TGCCATTCCAAGACAGCAGTTGC
ZKO336b     -----TCAGCGACAGCAGTTGC
** . *****
```