

## ZKO334

Target Position: exon 2

Sense Strand Sequence

tgatggtgaagaccgacattgtcagtgTTTTGTTATATATTTTTGGCacttccatttGtaaagctcaaccattaatatag  
tgagtaggtatgcttggcctgtgtgtgcctagtattataactcaggtcatggtaaacaatatcctactcatagttacccat  
aggccattttgaaagtaagtggtaagtgaaaaatctgagtgcaataataagccatggctgaaagactttgcattttct  
tgttctctcagGAAA**GGAGCTCCAGTCTCTTCC**AGGTAGCAGCTCAACCTCCCTAAACCACAAT  
TTGCCAAGGAGAAGGGCTCAGAAGATGATCATCGTGACCTCCAGgtatgacctcaaaggattttat  
aggatatatattgtgctgcataatTTTTGaggaaaacatttttttcttca**gaattctcctgttctggaactg**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZKO334a: 3bp deletion

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

```
WT          ACTTTTGCATTTTCTGTTCTCTCAGGAAAGGAGCTCCCAGTCTCTTCCAGGTAGCAGCT
ZKO334a     ACTTTTGCATTTTCTGTTCTCTCAGGAAAGGAGCTCCCAGTC-----TCCAGGTAGCAGCT
*****
```

```
WT          CAACCCTCCCTAAACCACA
ZKO334a     CAACCCTCCCTAAACCACA
*****
```

### ZKO334b:10bp deletion

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

```
WT          ACTTTTGCATTTTCTGTTCTCTCAGGAAAGGAGCTCCCAGTCTCTTCCAGGTAGCAGCT
ZKO334b     ACTTTTGCATTTTCTGTTCTCTCAGGAAAGGAGCTC-----CCAGGTAGCAGCT
*****
```

```
WT          CAACCCTCCCTAAACCACA
ZKO334b     CAACCCTCCCTAAACCACA
*****
```