

## ZK0335

Target Position: exon 1

Sense Strand Sequence

TGGCTTCTCCTTTGTACCTACC CCAGCAGTCAGTTATCCCTCTCATTAAAGTTTTTCAGTATTG  
AAAAGACAGACTGACATTTTCGTCTTTTATAAAGTTTCGATGCGTAATTTAATGTAACCTGTTTTCT  
TAGTGCGTGACGCACTTTGGAAAAGAGCTTGACAGAGTCCTTAAACTTAAACGTTTCATTC  
AGGATGTCCA CTGTTTTTCTATACGGCTCC CGGCCATCCAACACCCTTCATCAAGACTTGGAG  
ATCCAGATCTCATCTCTCTCCGGGGTTATTCCACAGACTGCAGAGATCAGAGATGCTGGATCCC  
TCAGAAAGGAGCCAGAGCTCGGTCTCCAGACACGGAGAGCCTGGACTCTGCATTTTCGCAGT  
CAGAGCAGCAGAAGTGATATAAGTTCTGTGGTGGAGAAGGGAAAAAGAGGATTAGATGTTCC  
CAGAGCTGATTCCCGAGGGCG AAGAGGACATCCACGATAAAGC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0335a: 2bp deletion

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

```
WT          AACTTAAAACGTTTCATTCAGGATGTCCACTGTTTTTCTATACGGCTCCCGGCCATCC
ZK0335a     AACTTAAAACGTTTCATTCAGGATGTCCAC--TTTTTCTATACGGCTCCCGGCCATCC
*****
```

```
WT          AACACCCTTCATCAAGACTTG
ZK0335a     AACACCCTTCATCAAGACTTG
*****
```

### ZK0335b: 7bp deletion

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

```
WT          AACTTAAAACGTTTCATTCAGGATGTCCACTGTTTTTCTATACGGCTCCCGGCCATCC
ZK0335b     AACTTAAAACGTTTCATTCAGGA-----TGTTTTTCTATACGGCTCCCGGCCATCC
*****
```