

## ZKO799

Target Position: exon1

Sense Strand Sequence

AGCGTGATGACGTAGAATGTCCAGGAAATATCCTGCTGTCTCAATTAGAAGCGCACAAAGTC  
ATTCAACATGGTTTTGGAAAGTATCTCCAAGATCATCAAATACAGCTACCA**GCCTACCTCAAG**  
**AAGCTGCC**CCTTCCGGAACAATCGGCGGCTTCGCGCGACTGACAGgtttggttcatatcattcaa  
aagcgttcgtagatgggaaagtacgcaagtaaagcgcgcaaatatctccatggaaaaagtgctgaagagctttc  
**attccattcgctacact**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZKO799a: 14bp deletion

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

```
WT          ATCTCCAAGATCATCAAATACAGCTACCAGCCTACCTCAAGAAGCTGCCCTTCCGGAA
ZKO799a     ATCTCCAAGATCATCAAATACAGCTACC-----AGCTGCCCTTCCGGAA
          *****                               *****
```

```
WT          ACAATCGGCGGCTTCGCGCGACTGACAG
ZKO799a     ACAATCGGCGGCTTCGCGCGACTGACAG
          *****
```

### ZKO799b: 8bp insertion

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

```
WT          ATCTCCAAGATCATCAAATACAGCTACCAGC-----CTACCTCAAGAAGCTGCCCC
ZKO799b     ATCTCCAAGATCATCAAATACAGCTACCAGCCTAGCCAGCTACCTCAAGAAGCTGCCCC
          *****                               *****
```

```
WT          TTCCGGAACAATCGGCGGCTTCGCGCGACTGACAG
ZKO799b     TTCCGGAACAATCGGCGGCTTCGCGCGACTGACAG
          *****
```