

## ZKO786

Target Position: exon 2

Sense Strand Sequence

AAATCAGTCAAGTGCCTGTGACAGAGACACAAACAGCTGTGGCCTATAAAGAAATACAAGAC  
AAGATCAATGCACTTgtgagttggaacacatatgtggttcagaaattaaactttttaataacgctaactatt  
ctctatctttctatcagATGACGCAGATCCTAAAGAGCCCC**TCTTCGTTTGTGCTAGTTCC**AGCCACT  
TTCACgtgagttctctgataaacttcattgctgagtaaaagtatttcttagggaacatttacatgaaacaatgtaatg  
aaaacacaaggattttatctccatcaaagtgttttctgattattatgtggttaaccaatccaagttcacatttcgcat  
ttcacatttcacaaattgacagatcgcgaaattgaaaaagcagggag**agggtgttcgggacaa**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZKO786a:11bp insertion

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

```
WT          CTCTATCTTTCTATCAGATGACGCAGATCCTAAAGAGCCCCTCT-----TCGTT
ZKO786a     CTCTATCTTTCTATCAGATGACGCAGATCCTAAAGAGCCCCTCTCGGCCTCGATCTCGTT
*****
```

```
WT          TGTGCTAGTTCCAGCCACTTTCACGTGAGTTC
ZKO786a     TGTGCTAGTTCCAGCCACTTTCACGTGAGTTC
*****
```

### ZKO786b: 2bp deletion, 4bp insertion

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

```
WT          CTCTATCTTTCTATCAGATGACGCAGATCCTAAAGAGCCCCTCT--TCGTTTGTGCTAGT
ZKO786b     CTCTATCTTTCTATCAGATGACGCAGATCCTAAAGAGCCCCTCTATTAGTTTGTGCTAGT
***** * *****
```

```
WT          TCCAGCCACTTTCACGTGAGTTC
ZKO786b     TCCAGCCACTTTCACGTGAGTTC
*****
```

**ZK0786C: 1bp deletion**

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

```
WT          CTCTATCTTTCTATCAGATGACGCAGATCCTAAAGAGCCCCTCTTCGTTTGTGCTAGTTC
ZK0786c     CTCTATCTTTCTATCAGATGACGCAGATCCTAAAGAGCCCCTC-TCGTTTGTGCTAGTTC
*****
```

```
WT          CAGCCACTTTCACGTGAGTTC
ZK0786c     CAGCCACTTTCACGTGAGTTC
*****
```