

## ZKO782

Target Position: exon 3

Sense Strand Sequence

```
ACGGTCAACTGTGGTGGTCAGACGGCATCCAGAAAGGAAGGTCATCCGTCTGGCTGACTGGT
GAGTGTTGTTAAGCTGCCTCCTCATGCAGAGGCTTGTCTTGGAGAAAACATGGCCGCTTTTTG
TGTGGAGACCGAGGAGAAGAGGCTGGTGTTCGCAGCAGAGAGAGAAAGCTGTGGAGAATG
GGTGAATATCATATGTAACATCGCCTTTCAGgtgagggttgatttttctgtttatatatcagcattaaaaggtt
tgttgtctgatttttaaacagatattaatagattattaagcaacattttacaatgttataaaagattacattttattaatgc
agttcttttgattttccta
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO782a: 11bp deletion, 7bp insertion

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

```
WT          GCCTCCTCATGCAGAGGCTTGTCTGGAGAAAACATGGCCGCTTTTTGTGTGGAGACCGA
ZKO782a     GCCTCCTCATGCAGAGGCTTGTCTTG-----TCCATGGCCGCTTTTTGTGTGGAGACCGA
*****. ** * *****
```

### ZKO782b: 10bp deletion

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

```
WT          GCCTCCTCATGCAGAGGCTTGTCTGGAGAAAACATGGCCGCTTTTTGTGTGGAGACCGA
ZKO782b     GCCTCCTCATGCAGAGGCTTGTCT-----CATGGCCGCTTTTTGTGTGGAGACCGA
***** *****
```