

ZK0892

Target Position: exon 4

Sense Strand Sequence

tcaaaatcttacatacagcacctttaaagaaatgccataataaacatcactctcattcttattgttttttttcaaaccac
agGTG**GTGGGGATTGTAATCGGCGC**TGGAGTCGTCATCGTTCTCATCGCCGTCCTCATATTT
TTTGTCTTGCGCCGGATGCAGCTCCGCAgtagttctcaaattctcaattgtgaaatgaactgatcacgtaat
cttgattcataatcctattccttgggttttctcctagAACTG**GAGGCTCAGGAAGTCCCAA**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0892a: 37bp deletion

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

```
WT          taaacatcactctcattcttattgttttttttcaaaccacagGTGGTGGGGATTGTA
ZK0892a     taaacatcactctcattcttattgtttttt-----
*****
```

```
WT          ATCGGCGCTGGAGTCGTCATCGTTCTCATCGCCGTCC
ZK0892a     -----CTGGAGTCGTCATCGTTCTCATCGCCGTCC
*****
```

ZK0892b: 31bp deletion

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

```
WT          tcactctcattcttattgttttttttcaaaccacagGTGGTGGGGATTGTAATCGGC
ZK0892b     tcactctcattcttattgttttttttca-----
*****
```

```
WT          GCTGGAGTCGTCATCGTTCTCATCGCCGTCC
ZK0892b     -CTGGAGTCGTCATCGTTCTCATCGCCGTCC
*****
```