

## ZK0389

Target Position: exon 4

### Sense Strand Sequence

cgcatgagtcctctgtcacgctctggtggtctctgtagttcactggcagactgtgggctgtgaaggacaggaagatgacttac  
tgcaatgcaatcgaccgtctggaacgggggagagtgtgagaatcgccaagcggctgctgtttcttgcatgccggtggag  
agatgtatactttaacatttacatacatttaaacacaatcacaatccctaataaaaaagagaaaataacctgtgtgtttgtt  
tagCTTCAGTGTGGTCCAGTGGGCTATCTGGTGGTCCATCGGCATATGAGGGCAGAGTAG  
AGGTGTATCATGCAGGACAGTGGGGCACAGTTTGTGATGACCAATGGGATGATAACGACGCT  
GAGGTGGTCTGCAGGCAGCTGGGGTTAGGtaagacatttacagacaaacacacatatattttatagttgaac  
atgatattaaactgggtggcaggtggctcagtggttagcactgtcgc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0389a: 10bp deletion

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

```
WT          AGTGCGGCTATCTGGTGGTCCATCGGCATATGAGGGCAGAGTAGAGGTGTATCATGCAGG
ZK0389a     AGTGCGGCTATCTGGTGGTCCATCGGCAT-----AGTAGAGGTGTATCATGCAGG
            *****
            *****

WT          ACAGTGGGGC
ZK0389a     ACAGTGGGGC
            *****
```