

ZK048

Target Position: exon 1

```
TCCGCAGAAGAGTAAGACCTCAGTGTCCCGCTCTGCACGTGCTGGTCTGCAGTTCCCGGTGG
GCCGCATCGCTCGTCTCCTGCGGAAGGGGAACCTTCGCGGCACGCATCGGCTCGGGAGCGGC
GGTGTACCTGACTGCGGTGATCGAGTACCTGTGTGCTGAGGTGCTGGAGCTCGCAGGAAACG
CCAGCAGAGACAACAAGAAGCTCCGCATCGCACCACGACACATCCAGCTAGCGGTGCGCAA
CGACGAGGAGCTGAACACTCTGCTGGGCGGAGTACCATCTCTGAGGGCGGAGTCCTGCC
AACATACAGGCAGTGCT
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK048a: 50bp deletion

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

```
WT          ATCGGCTCGGGAGCGGCGGTGTACCTGACTGCGGTGATCGAGTACCTGTGTGCTGAGGTG
ZK048a      ATCGGCTCGGGAGCGGCGGTGTACCTGACT-----
*****

WT          CTGGAGCTCGCAGGAAACGCCAGCAGAGACAACAAGAAGCTCCGCATCGC
ZK048a      -----CAGCAGAGACAACAAGAAGCTCCGCATCGC
*****
```