

## ZK0849

Target position:exon2

Sense Strand Sequence

cttcaatacagctagtgaagggaataatgccataaataataataagaacgtcttgtgtctctttttgcagAGT  
GATGCAAAGGATGGTCAGCTGAACCATATCCCGTTTTTCAATCTGTGCTGAAGAAACGTCCA  
AAAGGGACTTTCAACAATCCAAAACAGATAAACTCCCAGATACAGAAGGATACTCTGAAGG  
ATGTTCAATAAATAAACGGAGTAAAGATTCCGATAGCACGGGCAGAACTTGTGGTGATGAGG  
AACAGTCACGTTCTGGCACATTTAATGTGTCTGAGTCAATGCCGAGTGAGGCAAGTCAAGGT  
CAGCGAAGTGATATTCCACTCCTGGAGTCTATGCTGAACAAGCTCATGATCCAAAAGGAGAGA  
GCCAACCATCACTCAACAGACAGACCACGT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0849a: 1bp deletion

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

```
WT          AATCTGTGCTGAAGAAACGTCCAAAAGGGACTTTCAACAATCCCAAACAGATA
ZK0849a     AATCTGTGCTGAAGAAACGTCCAAAAGGACTTTCAACAATCCCAAACAGATA
*****
```

### ZK0849b: 2bp deletion,9bp insertion

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

```
WT          AATCTGTGCTGAAGAAACGTCCAAAAGG-----GACTTTCAACAATCCCAAACAGAT
ZK0849b     AATCTGTGCTGAAGAAACGTCCAAAACGAAAAACGACTTTCAACAATCCCAAACAGAT
***** *          *****
```