

## ZK09

Target Position: exon 2

Sense Strand Sequence

gtgttttacctgcgctgtgctggtctgcagATCCACA**GGATGAGAATAAGATCGGTG**TGGACGGGATCC  
AGCAGTTCTGTGACGACCTCATGCTGGATCCGGCTAGCGTTAGCGTCCTCATCGTAGCCTGG  
AAGTTCAGAGCCGCGACGCAGTGCAGTTCAGTCGGCAGGAGTTCCTGGACGGC**ATGACG**  
**GACCTCGG**gtcaata

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZK09a: 2bp deletion

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

```
WT          GTTCTGCAGATCCACAGGATGAGAATAAGATCGGTGTGGACGGGATCCAGCAGTTCTGTG
ZK09a      GTTCTGCAGATCCACAGGATGAGAATAAGA--GGTGTGGACGGGATCCAGCAGTTCTGTG
*****
```