

## ZK0827

Target Position: exon 4

Sense Strand Sequence

CACCGAGACCACAgtaagtttgactgagacatgctaactaatcttctgtatattttgagttggaagagttatgatgat  
gtgtaattttcttttagGTAAAGAAGGTCACAAAGACGACCACCACACGAACAGTCATTCCATCAGT  
CTCTGACACACTTTCCCTGGATGGCACTGGTTCAGTTACTGGGATGCCGAGTTATAATAGCCCA  
ATGGACCGTGTGTACAGGCCACCACCTGGACCCATGGATTACCCACCTCCACTGTCCCACGT  
AACTACCACTATGGACCACCAGCGGGGTATGACGATTACCGAAGCGTCCCTCCATCTGAAGCC  
TACACCAGCCTCAGCCGAGGGACCCGCATGGATGACCGCTACAGgtcagttactattttatttgat  
caactagggcttagttgtgttgctta

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0827a:4bp deletion

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

```
WT          CACACTTTCCTGGATGGCACTGGTTCAGTTACTGGGATGCCGAGTTATAATAGCCCAAT
ZK0827a     CACACTTTCCTGGATGGCACTGGTTCAG-----TGGGATGCCGAGTTATAATAGCCCAAT
*****
WT          GGAC
ZK0827a     GGAC
*****
```

### ZK0827b:24bp deletion

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

```
WT          GTCATTCCATCAGTCTCTGACACACTTTCCTGGATGGCACTGGTTCAGTTACTGGGATG
ZK0827b     GTCATTCCATCAGTCTCTGACACACTTTC-----GGGATG
*****
WT          CCGAGTTATAATAGCCCAATGGAC
ZK0827b     CCGAGTTATAATAGCCCAATGGAC
*****
```