

ZK0237

Target Position: exon 1

Sense Strand Sequence

cgtaattacagtatacacaggcttatcatatcttcattatctgttctcttcacAGACACCGCTCCGTACTTTAAAA
CGGAGACAGGAGGAGCACAGACACACCTGGAGGGGAACAGACTGGTGCTCACCTGTCTGG
CGGAGGGCAGCTGGCCACTTGAGTTCAAATGGATGAGAAACAGCACAGATATTACTGAATAC
ACACCGGAGTACAGgtaatgatgagcacactcacattaaagtg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0237a: 10bp insertion

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

```
WT          ACCTGGAGGGGAACAGACTGGTGCTCACCTGTCTGG-----CGGAGGGCAGCTGG
ZK0237a     ACCTGGAGGGGAACAGACTGGTGCTCACCTGTCTGGCCAGCTCACCCGGAGGGCAGCTGG
*****
```

```
WT          CCACTTGAGTTCAAATGG
ZK0237a     CCACTTGAGTTCAAATGG
*****
```

ZK0237b: 4bp deletion

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

```
WT          ACCTGGAGGGGAACAGACTGGTGCTCACCTGTCTGGCGGAGGGCAGCTGGCCACTTGAGT
ZK0237b     ACCTGGAGGGGAACAGACTGGTGCTCACCTGT----CGGAGGGCAGCTGGCCACTTGAGT
*****
```

```
WT          TCAAATGG
ZK0237b     TCAAATGG
*****
```