

ZKO279

Target Position: exon 5

Sense Strand Sequence

ttcgccta~~atcctatacatcat~~gttgcctttatacagttgaagtcagaattattagccctccttgaatttttattccttttttaa
atatttcccaaattatgtttaacagagcaagaaaattttacagtatgtctgacaatattttcctctggagaaagacttatt
gtttatttcgctagaacagtttttaataaaaaaattaataataagtaaaaaatgtgttgaaaaaacctctccattaaac
agaaattggggaaaataaacttaggggctaataattcaggagggctaatagttctgacttcaactgtatctatatccgtaa
taccaaatactattttgttcagTACTGCAATGTCTGACCTAATGAGTGCTGTGAAAATCCTGGCT
GGATCTACAGTGGAGATTGCAGCTGCTTCAGTTGGTGATCAGCACTTGGTGACCGCAGTGAG
GTTGTCTGAAGATCACAATACAGCAGAGATCCTCAACGGGCTGGAGACTGTTGATGTTAAAG
CAGAAGACCCAGAACCTGTAGGAG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO279a: 13bp deletion

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

```
WT          tgcagTACTGCAATGTCTGACCTAATGAGTGCTGTGAAAATCCTGGCTGGATCTACAGT
ZKO279a     tgcagTACTGCAATGTCTGACCT-----AAAATCCTGGCTGGATCTACAGT
            *****
            *****

WT          GGAGATTGC
ZKO279a     GGAGATTGC
            *****
```

ZKO279b: 8bp deletion

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

```
WT          tattactatgttgcagTACTGCAATGTCTGACCTAATGAGTGCTGTGAAAATCCT
ZKO279b     tattactatgttgcagTACTGCAATGTC-----TGAGTGCTGTGAAAATCCT
            *****
            *****

WT          GGCTGGATCTACAGTGGAGATTGC
ZKO279b     GGCTGGATCTACAGTGGAGATTGC
            *****
```