

ZKO479

Target Position: exon 2

Sense Strand Sequence

ttgtcattcagccagttcatctggagcttactgtctaacgttaactactgcaaaacaatacacaacgtagtaaacgcg
tgtgagattccccaaaccacagtgatctttcggattcccgtgtgtttggttgagacaggaattggcctggcgtttgtgtt
gctctgcccgcagatgttttcccaatgtgtttatgtgttctttccttttaaagCTCTGACTCAGATGTCCAGCGTGG
TCGAAGTTTGGCAGGCTGAGGACGCAGACTTCTTCGTGCCATCTCAGgtatgtgagctgctttttaa
aaatgacgtcataaactggacgcttttattacagtgtacttcttctgtgagggcgcgagcacgtgctgggacatggtgcagtgt
gtgctattgttacatttgcgatggtggcgaaatggaaggcattatttcagttgaagtttcaggtatgattcggttcgtattat
tgattcatgcaggcttccatgaggagg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO479a: 2bp deletion

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

```
WT          CTCAGATGTCCAGCGTGGTTCGAAGTTTGGCAGGCTGAGGACGCAGACTTCTTCGTGCCA
ZKO479a     CTCAGATGTCCAGCGTGGTTCGAAGTTTGGCAG--TGAGGACGCAGACTTCTTCGTGCCA
*****
```

ZKO479b: 5bp deletion, 7bp insertion

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

```
WT          CTCAGATGTCCAGCGTGGTTCGAAGTTTGGCAGG--CTGAGGACGCAGACTTCTTCGTGCC
ZKO479b     CTCAGATGTCCAGCGTGGTTCGAAGTTTGGCAGGACGCAAGACGCAGACTTCTTCGTGCC
***** * *.*****
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