

ZKO76

Target Position: exon 3

antiSense Strand Sequence

gcagtgtaaacaatctggatgccgttttgttgcagtctatttacgggtgaaacaggataacttaagacttttctctcagttc
acaggtgttgcattgtatcatctgcttcatgtgtaacgtgtgatgttttttgtgtttgacagCAACGGGCCCCAGG
GAAGGCGCTGTTTGACCTGGTTTGTTCATCTCAACCTCGTCGAGGGCGATTACTTCGGTTT
GGAGTTTCAGGATCAGCGGAAAATGATTgtgagcaacgcttgtcttttattcaatatgtgaaacatgagctac
ctctatacacagtactcaggtgtcatgttctgtgaccaattaggaatgtaaacacagtggctccgtcccaaaccctaga
gagatgcctatatcgataacagc

Uppercase: exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO76a: 2bp deletion

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

```
WT          TGGTTTGTTCATCTCAACCTCGTCGAGGGCGATTACTTCGGTTTGGAGTTTCAGGATC
ZKO76a     TGGTTTGTTCATCTCAACCTCGTCGAGG--GATTACTTCGGTTTGGAGTTTCAGGATC
*****
```

ZKO76b: 10bp deletion

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

```
WT          CAACGGGCCCCAGGGAAGGCGCTGTTTGACCTGGTTTGTTCATCTCAACCTCGTCGAG
ZKO76b     CAACGGGCCCCAGGGAAGGCGCTGTTTGACCTGGTTTGTTCATCTCAACCTC-----
*****
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```
WT          GCGATTACTTCGGTTTGGAGTTTCAGGATCAGCGGAAAATGATT
ZKO76b     ----ATTACTTCGGTTTGGAGTTTCAGGATCAGCGGAAAATGATT
*****
```