

ZKO778

Target Position: exon 44

Sense Strand Sequence

TCAGTCTTTCCCATGAGCCTCCTGTT CAGGATCTCATCAGTGCCGTGCACCGAAATTCAGCAG
CCAGCGGGCTCTTCATACAGGCCATACAATCGCGCTGCGACAACCTTTGCACTgtatgtatacaa
caaattcacagtttcatctgttttctgtgaagcacactcacgtgttcaatgtgtcctgtccagCCGGTGATGCTGA
AGAAGACCCTGCAGTGTCTGGAGGGCATTTCATCTCAGTCAGTCCGGGGCTCTGCTAATGCTGT
ACGTGGACAACTCCTGAACACGCCGTTCCGTGTGCTTGCCCGCATGGTGGACTCTGGCC
TGCAGACGTGTGGAGATGCTGCTCGCTGAGACCCTGCAGgtaaaacatgcatagtaaagactcacagc
cagcggatttcattcacttgctattctttatcatttataatatatgtttattgtaaaaaattgctatttactattaatga
aattccttatctatggaaataaattccagggggcaaatgctgcctataatggaaaaggtgtagtaatgca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO778a: 16bp deletion

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

```
WT          GCTGTACGTGGACAAACTCCTGAACACGCCGTTCCGTGTGCTTGCCCGCATGGTGGACAC
ZKO778a     GCTGTACGTGGACAAACTCCTGAACACGCCGTTCCGTGT-----GACAC
*****                                           *****
```

```
WT          TCTGGCCTGCAGACGTGTGGAGA
ZKO778a     TCTGGCCTGCAGACGTGTGGAGA
*****
```

ZKO778b: 3bp deletion, 5bp insertion

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

```
WT          GCTGTACGTGGACAAACTCCTGAACACGCCGTTCCGTGTGCTTG---CCCGCATGGTGGAC
ZKO778b     GCTGTACGTGGACAAACTCCTGAACACGCCGTTCCGTGTGCTTGTGCTTGCATGGTGGAC
*****                                           * . *****
```

```
WT          ACTCTGGCCTGCAGACGTGTGGAGA
ZKO778b     ACTCTGGCCTGCAGACGTGTGGAGA
*****
```