

ZKO228

Target Position: exon 1

Sense Strand Sequence

accatttcagaatagacgtagagattaccaatattttccgtcatccaactctcggatctgcctgttcgtgtccataga
ccagtgttttcggtgatgatgatgacgatgacattgtgatctgtcgtctagaaggcggaggaaaggtgcgaccgagt
aaaacaacatccacctcgtgcttcgaccaccgagtggaATGAACATGAATAGC GGCAGACTTTATTCACG
ACTGCGGTTATGTCGGTTTTATCCGGCGGCGTGAGAGCGACGTATCACCGAACGCTGGACA
GGATCGAATTAATGCTGCCGCCTAAATTAAGACCTGTCTACAATCATCCTGCTGgtaaagacattac
tctgctcctgtctgaagaaca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO228a: 5bp deletion

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

```
WT          GAATGAACATGAATAGCGGCAGACTTTATTCACGACTGCGGTTATGTCGGTTTTATCCG
ZKO228a     GAATGAACATGAATAGCGGCAGACTTTATT-----CTGCGGTTATGTCGGTTTTATCCG
*****
```

```
WT          GCGGCGT
ZKO228a     GCGGCGT
*****
```

ZKO228b: 6bp insertion

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

```
WT          GAATGAACATGAATAGCGGCAGACTTTATTCACGA-----CTGCGGTTATGTCGGTTTT
ZKO228b     GAATGAACATGAATAGCGGCAGACTTTATTCACGATAAAGTCTGCGGTTATGTCGGTTTT
*****
```

```
WT          ATTCCGGCGGCGT
ZKO228b     ATTCCGGCGGCAT
*****.*
```