

ZKO429

Target Position: exon 7

Sense Strand Sequence

GAGCAGGCACAGATGAGAAAGT GCTGATTGAGATCTTGGCATCTCGCTCTCCTAATGAAGTCA
ATGAGATCAAAAGTTCATACAAGCGAGGtaaatatcgaattcgaatatccacacattgtttatttcatttatta
aatgtttatttattaattaagttgtggcttgatctatgctagtttatcgaatgttactcactcgcgatgttgatgatcggtttgatt
gcagAGCATGATAAGGACCTGGAGGAGGATGTGACTGGTGATACCGGGGGACATTTCGAAAG
AATGCTTGTGTTTTGCTACAGgtaaaatggaagaaagaaaaaaaaaagtccacaataattgtgatgtgaat
aatggaaatggagg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO429a: 2bp deletion, 6bp insertion

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

```
WT          tattgcagAGCATGATAAGGACCTGGAGGAGGATGTGACTGGTGAT-----ACCGGGGGAC
ZKO429a     tattgcagAGCATGATAAGGACCTGGAGGAGGATGTGACTGGTGATTCTTTCGGGGGAC
*****
*****
```

```
WT          ATTTCGAAAGAATGCTTGTGTTT
ZKO429a     ATTTCGAAAGAATGCTTGTGTTT
*****
```

ZKO429b: 10bp deletion

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

```
WT          tattgcagAGCATGATAAGGACCTGGAGGAGGATGTGACTGGTGATACCGGGGACATTT
ZKO429b     TattgcagAGCATGATAAGGACCTGGAGGAGGATGTGACTGGT-----GACATTT
*****
*****
```

```
WT          CGAAAGAATGCTTGTGTTT
ZKO429b     CGAAAGAATGCTTGTGTTT
*****
```