

ZKO232

Target Position: exon 1

Sense Strand Sequence

ttccaatatccagcactaccttctatataacgtattactagttgacgattcattccgctgtggcgacctctgactaagccaag
ggaaagtgaatgaataaataatgtatcacttaccgttggttactctgattGCTCTAGAAACGAAGCTGGCTGC
ACCTCAGAACGTGAAGGTGGTCTCCATCAACATGGGTGCAGTTGTCGAGTGGACGTCTCCAC
ACAATTCATCAGGAACATGACATACTGTAAGATATGTgtaagtacacttaaaatacgaaaaatgctt
atatattagtttgaattattccagtaaaacttttgattctctgtaacatgaaattccacactgttaaaaatatctgtacattaa
cagttaccatattattaacatgttttctgtttattacggttggaattgcattatgggatcttgatctctgctctgcctctttgt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO232a: 14bp deletion

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

```
WT          GTGTTACTCTGATTTGCTCTAGAAACGAAGCTGGCTGCACCTCAGAACGTGAAGGTGGTC
ZKO232a     GTGTTACTCTGATTTGCTCTAGAAACGAAGCTGGC-----TGAAGGTGGTC
*****
```

```
WT          TCCATCAACATGGGTGC
ZKO232a     TCCATCAACATGGGTGC
*****
```

ZKO232b: 33bp deletion, 64bp insertion

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

```
WT          TAGAAACGAAGCTGGCTGCACCTCAGAACG-----TGAAGGTGGTCTCCATCA
ZKO232b     TAGAAACGAAGCTGGCTGCACCTCAGAACAGCCATCAACCTCAGAAGGTGGTCTCCATCA
*****
```

```
WT          ACATGGGTGCAGTT-----GTCGAGTGGACGTCTCCACACAATTCC
ZKO232b     ACATGGGTGCAGTTGTCGAGTGGACGTCGAGTGGTCGAGTGGACGTCTCCGACAATTCC
*****
```