

ZKO249

Target Position: exon 4

Sense Strand Sequence

atggagtgtttattacagcctgcataaaagagtctgccacattcatataagctaattccaatttgatctctttcctgcagTG
CTGGCATTGCAGTCGGTTTCTATGGAAACGGCGAAACGTGCGATGGCGTGACACGGCTGACA
TATTCCTTGCGCCACGCTAACCAAACAGTGGCAGGCATCGACAAACTGgtgagtcagcatgtttctg
ttgttctaagctgtgaacatttgcgtgtgtccatgggtccaaagacactttgctgtccttctgtccaagtctaaacacttt
accaccctttccaagca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO249a: 2bp deletion, 9bp insertion

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

```
WT          ctttctgcagTGCTGGCATTGCAGTCGGTTT-----CTATGGAAACGGCGAAACGTG
ZKO249a     ctttctgcagTGCTGGCATTGCAGTCGGTTTGGAACTGCAATGGAAACGGCGAAACGTG
*****
***** * *****
```

```
WT          CGATGGC
ZKO249a     CGATGGC
*****
```

ZKO249b: 4bp deletion

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

```
WT          ctttctgcagTGCTGGCATTGCAGTCGGTTTCTATGGAAACGGCGAAACGTGCGATGGC
ZKO249b     ctttctgcagTGCTGGCATTGCAGTCGG----TATGGAAACGGCGAAACGTGCGATGGC
*****
***** *****
```