

ZKO490

Target Position: exon 1

Sense Strand Sequence

GCACGCAGATGGTTATGATAAACTTAAGCCGTTTCGGTATGGCCATATCGGGGTGCATAGATGG
ATTTTCAGTAAAGTACTGTGGCTTGAAAGTGGAGTAACAAATAATAACCCAACAGTGATTGC
TCGCTATTTTCATGTCGTGTGTGCGAAAGCTCGGTGTCATCCCCATGAGACTGAGGACTGATTG
CGGCACTGAGAACGGTATAATGGCTGCAATTCAATGTACGCTACGCCACCATCACAGTGATTAC
TACGCCGGCGCTTCCAGCCACATGTAACGGCTCGTCAATAATAACCAACGTATTGAGTCCTGGT
GGTCTATATTTAGAAAGGGAAGgtgagtggtcttcactgttcttaaaggctcattgtatTTTTTGGTCATAACATTT
cttctcaggaacgagttg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO490a: 7bp deletion

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

```
WT          ATCACAGTGATTACTACGCCGGCGCTTCCAGCCACATGTACGGCTCGTCAATAAATAACC
ZKO490a     ATCACAGTGATTACTACGCCGGCGCTTCCA-----GTACGGCTCGTCAATAAATAACC
*****
```

ZKO490b: 25bp deletion

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

```
WT          ATCACAGTGATTACTACGCCGGCGCTTCCAGCCACATGTACGGCTCGTCAATAAATAACC
ZKO490b     ATCACAGTGATTACTACGCCGGCGCTTCC-----ATAACC
*****
```

```
WT          AACGTATTGAGTCCTGGT
ZKO490b     AACGTATTGAGTCCTGGT
*****
```