

## ZKO482

Target Position: exon 5

### Sense Strand Sequence

ctggtcagcaattctatgaagcaattgattgctgtagtaaccaatgaaagcttttctgttttttgagaagagtatgaataatttcattttattgtgtccacctctgtggctgtactttacgattctaattattcagagtctgaaatcatcaaaattaatcactgaccatttttagGGTCGCCACCACAGACCAACACACCTCGAGTTGTGGCAAGTCCTGCAGCAGCCAGT  
CGGCTCGCTCGCAGCATCAGCGATAGTCAGGTGGAGATACAGAAAGgtacaatagactgtaactgaagatgccacgcattttgtcctcactaatcacactgtatcccactaaagacgctgctgttctagtagattcccgtgatgtctgtaagttgagcagttttcaagagaaattcaagagaaagatacatctcctctgactttgac

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO482a: 7bp deletion

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

```
WT          CAGACCAACACACCTCGAGTTGTGGCAAGTCCTGCAGCAGCCAGTCGGCTCGCTCGCAGC
ZKO482a     CAGACCAACACACCTCGAGTTGTGGCAAGTCCTG-----CAGTCGGCTCGCTCGCAGC
*****
```

```
WT          ATCAGCGATAGTCAGGTGGA
ZKO482a     ATCAGCGATAGTCAGGTGGA
*****
```

### ZKO482b: 3bp deletion

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

```
WT          CAGACCAACACACCTCGAGTTGTGGCAAGTCCTGCAGCAGCCAGTCGGCTCGCTCGCAGC
ZKO482b     CAGACCAACACACCTCGAGTTGTGGCAAGTCCT---GCAGCCAGTCGGCTCGCTCGCAGC
*****
```