

ZKO382

Target Position: exon 1

Sense Strand Sequence

GCCCAGATTTTGTGTTGATGAAAAGCAAAGCAACAGCATGCCGACGTTGCTGCAAAAGCTCT
TCAGCAAGAGAGCAGTCGGTAACGGTAACGGCAGCGCCC**GGGACTGCTCGACGGGAG**CGG
AGCAGCGgtaagtaggaccgtagcacgcgcatgttactatacctatggagacacagtcacgcgctctgcacacctgc
acgcgccagtctgtaaaaagcgcgtgccagtctgagcgtttaaatacagtgacgagctctccgctgcatccagctggtt
atttctatgataaagagcagaggctcgtgcaagttatgatcagcatttt**tattgtgctatcactcgagg**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO382a: 1bp insertion

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

```
WT          TAACGGCAGCGCCCGGGACTGCTCGAC-GGGAGCGGAGCAGCGgtaagtaggaccgtag
ZKO382a     TAACGGCAGCGCCCGGGACTGCTCGACGGGAGCGGAGCAGCGgtaagtaggaccgtag
*****
```

ZKO382b:31bp deletion

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

```
WT          TCAGCAAGAGAGCAGTCGGTAACGGTAACGGCAGCGCCCGGGACTGCTCGACGGGAGCGG
ZKO382b     TCAGCAAGAGAGCAGTCGGTAACGGTAACG-----
*****
```

```
WT          AGCAGCGgtaagtaggaccgtagc
ZKO382b     -GCAGCGgtaagtaggaccgtagc
*****
```