

ZKO216

Target Position: exon 3

Sense Strand Sequence

gtggcatcagatagcagtgtc cataataacacactgaagttgtgttcagGCTGGGAGGGCCCTCCTCCTCCAC
GAGGTTGTGAGGTGTTTGTGGGTAAAATCCCAGAGACATGTATGAAGATGAGCTGGTGCCT
GTGTTTGAGCAAGCCGGTCACATCTACGAGTTTCGTCTGATGATGGAGTTCAGCGGAGAAAA
TCGTGGCTATGCCTTCGTCATGTACACCACCCGCGAGAAAGCCCAACGAGCCATTAGCTCCT
CGACA ACTATGAAATCCGCCCTGGGAAGTTCATTGGAGTTTGTGTGAGTCTGGACA ACTGTGC
CCTTTTTATTGGCTCCATCCCAAAGAC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO216a: 4bp deletion

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

```
WT          ATCGTGGCTATGCCTTCGTCATGTACACCACCCGCGAGAAAGCCCAACGAGCCATTAGC
ZKO216a     ATCGTGGCTATGCCTTCGTCATGTACACCACCCGCG-----AGCCCAACGAGCCATTAGC
*****
```

```
WT          TCCTCGACA ACTATGAAATCCGCCCTGGGAAGTT
ZKO216a     TCCTCGACA ACTATGAAATCCGCCCTGGGAAGTT
*****
```

ZKO216b: 32bp deletion

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

```
WT          ATCGTGGCTATGCCTTCGTCATGTACACCACCCGCGAGAAAGCCCAACGAGCCATTAGC
ZKO216b     ATCGTGGCTATGCCTTCGTCATGTACACCACC-----
*****
```

```
WT          TCCTCGACA ACTATGAAATCCGCCCTGGGAAGTT
ZKO216b     ----CGACA ACTATGAAATCCGCCCTGGGAAGTT
*****
```