

## ZKO395

Target Position: exon 2

Sense Strand Sequence

TGTGCCTCTTCAGGAAAAGT GACTGCGCAAGAGAAAGGAAGAGTGAGCTGGTATCCTCTGT  
AGTTGTAGGTTTCATATTGATGCATTTGGCGTCCAGCTGAGATGCCGCGACGCTGACGGTCCT  
GCCCCGTCTGTGCAACCGGACCAATGATGATAATGAAGGCGATGATGTCCACACGGCGCGT  
GTAGCGCTAAATTCCACACTGCCGACTCCTACCAGACACTCCTCTCTGACCCACGCTCGTTC  
ACACCTCAGATGGACTACCTTTACTCTGCACTCACCAGTAAAATGAATTGGATCGCACTCCT  
GCTGGC CGGCTTGACTTTTTGTTGCAAAGTGTCCGTGCACAGCTGTTTAGATTACGATGACA  
GTTATGATTATTACGAGGAGGAGAAAACAGAGACAATAGACTACAAGGATCCCTGCAAAG  
CAGGtaagacgctttgtgcaaattataactctcagttgtcctgtggtgatcaaaggagaaagcatacacatctgatt  
tgctttcacactgtgctgcaaagtgagaaccgtagagtacggataagtggattgtgcgttattcatctaactttcttga  
tataactttattatctatttcctggcgggtcacttattgagtcaagcaagagcgacgcctccttttgggtgatataatata  
ttatatagtagaatatctctcgaagcctgcacgaccctcctcccggctgaaatgatgtagcccgttaattc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO395a: 4bp deletion

CLUSTAL format alignment by MAFFT G-INS-i (v7.215)

```
WT          CACTCACCAGTAAAATGAATTGGATCGCACTCCTGCTGGCCGGCTTGACTTTTTGTTGCA
ZKO395a     CACTCACCAGTAAAATGAATTGGATCGCACTCC----GGCCGGCTTGACTTTTTGTTGCA
*****
```

### ZKO395b: 19bp deletion

CLUSTAL format alignment by MAFFT G-INS-i (v7.215)

```
WT          TTTACTCTGCACTCACCAGTAAAATGAATTGGATCGCACTCCTGCTGGCCGGCTTGACTT
ZKO395b     TTTACTCTGCACTCACCAGTAAAATGA-----GGCCGGCTTGACTT
*****
```

```
WT          TTTGTTGCAAAGTGTCCGT
ZKO395b     TTTGTTGCAAAGTGTCCGT
*****
```