

## ZKO450

Target Position: exon2

### Sense Strand Sequence

cggataaacaagacagcaaacccaacagactaatgcgcaataacaagtcatttcgacttatcgtgctgggacataataatggtttttataaatcaaactgtaatacaagtcataacagagctcacatcgaaaattgtttgtgtaccacaaatcattgatcaagtcataacagagctcacatcgaaaattgtttgtgtactaattagttttttgtgcttgactctgtgctagGATGAAAGAAACCA**GGTGCTGACTACATATCTGT**GGGTTTCGTCAGATCTGGCATGATGCTTACTTGAGCTGGGATAAAGAAGAATATGATGGACTTGAGGTCATCCGCATTCCCAGCAATCTTGTTGGAGACCAGACATAGTTTTATATAACAAGtaattttaccatctgtcacatgcacacattatcttgacacattacctaaagaataaggactatag**tgcggtgaatttgaaggttagtc**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZKO450a:1bp insertion

CLUSTAL format alignment by MAFFT G-INS-i (v6.850b)

```
WT          cttgactctgtgctagGATGAAAGAAACCAGGTGCTGACTACATATC-TGTGGGTTTCGTC
ZKO450a     CttgactctgtgctagGATGAAAGAAACCAGGTGCTGACTACATATCTTGTGGGTTTCGTC
*****
```

```
WT          AGATCTGGCATGATGCTTACT
ZKO450a     AGATCTGGCATGATGCTTACT
*****
```

### ZKO450b:4bp deletion

CLUSTAL format alignment by MAFFT G-INS-i (v6.850b)

```
WT          cttgactctgtgctagGATGAAAGAAACCAGGTGCTGACTACATATCTGTGGGTTTCGTC
ZKO450b     cttgactctgtgctagGATGAAAGAAACCAGGTGCTGACTACATA----TGGGTTTCGTC
*****
```

```
WT          GATCTGGCATGATGCTTACT
ZKO450b     GATCTGGCATGATGCTTACT
*****
```