

## ZKO413

Target Position: exon11

Sense Strand Sequence:

ATGGTGGAGAAGTCGGAATA TCGAGCCAGTGGATCTCAAGCCGTTGGAAAGCTGATGGCTAA  
GATGCCATGTCAGGACTACGCAGCCACCATTAAGTGGCTCTATACTACTCTCGAAACAACAA  
Ggtgaatattgtgaccttcactttctacttaaccttcctaataccatcaaagggtaccgtgtccacagattgttacatattgtc  
tcttatgtgttcctaataatgaaatctttcctctgttcagGTGGCATTGAGAATGTTTTCGCTGGATGTTTCCA  
TGGTCCTGCTGGAGCAGACTGAGAGAGATGTGGATGACACTGTGGACCCTGAGCTGGCTGT  
GTTCTCTCACATAGGTTCTGGTGCATAACATTGTATACAATCATCGTAATGACGTCTCCCCCA  
CAGTCAGAGGTCATGCATTGCACTGCCTGGCACAGTGTCTGGAGCTGGGTTCCAGAATGCC  
ACAAAATGTGTCCATGAGCTCTTTTCCAACAgtatgtatatgaccaagcacagtgactgtacagataaaat  
aaacagagtgtttgcagggac

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO413a: 1bp insertion

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

```
WT          TCCTGCTGGAGCAGACTGAGAGA-GATGTGGATGACACTGTGGACCCTGAGCT
ZKO413a     TCCTGCTGGAGCAGACTGAGAGAGGATGTGGATGACACTGTGGACCCTGAGCT
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