

ZK0716

Target Position: exon 7

Sense Strand Sequence

cacttggtgtgaacaggtctactgagtttgataaaacacacaaaatacatttgattgacaaaactgaatgtatttcagat
ttgtaccacctgtctgaacaaggcctgtctcttaatggtatgaaatagtgatcatggaagaaaaaaaggagaacattc
ttgacaggtgaatttgtgtcagGTCTCCTGCCATGGCTGGAGGGCTGTTTGAATTGAGAGAGAAT
TCTTCTTTGAGCTGGGTCTTTATGATCCAGGCCTTCAGATCTGGGGAGGTGAAAACCTTTGAGA
TCTCATAAAGgtaaactttttgtataagtgtgtttattttccaggttaatcctgtaaaaattctttacagttttattttca
agattcaatttgattgggtcacacctaattggaattgagcagttactgtaataatgactattttgtttgagcactttagaactgta
tgtgtatcctctgctcgaatgtgtagtcgt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0716a: 5bp deletion, 8bp insertion

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

```
WT          acaggtgaatttgtgtgtcagGTCTCC---TGCCATGGCTGGAGGGCTGTTTGAATTGA
ZK0716a     acaggtgaatttgtgtgtcagGTCTCCAGGTCTCCTGGCTGGAGGGCTGTTTGAATTGA
*****
                * . * *****
```

ZK0716b: 1bp deletion

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

```
WT          acaggtgaatttgtgtgtcagGTCTCCTGCCATGGCTGGAGGGCTGTTTGAATTGAGAG
ZK0716b     acaggtgaatttgtgtgtcagGTCTCCTGCCAT-GCTGGAGGGCTGTTTGAATTGAGAG
*****
```