

## ZK0737

Target Position: exon 1

Sense Strand Sequence:

ccgtatatcgcgctatagtgcttctaaatatattgtacatctctttgtgattgtatgtcacactattctataaagtaataccttg  
gaacaaaatataaattataactcagtggtaccgtcatacagacgcatggctcactttc gatgtatataatcttgccgcc  
cgccccattagtGCGCATGCCTGAAAATTGCATCCTAAGCTACGCACGGGGAACGTCGTTTCGC  
CATCACTGCTTA**GGGGAAAGTCCCCGGACACT**TGGGCAGAGATGTCCTGCATACAGCGCAGAT  
CAGTGGCTTGCAATTGCATTCATGCTAAGACGTCCACGTGACTGAGCAGAGCGCTTAGCAAG  
CCATGTTTGTCAATAAGATAGTTACGCAAGTGTCTGACTCGTACTTCTACAGAACG**GGGCTC**  
**ATTCTCAGCATACG**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZK0737a: 4bp deletion, 1bp insertion

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

```
WT          TTCGCCATCACTGCTTAGGGGAAAGTCCCC--GGACACTGGGCAGAGATGTCCTGCATACA
ZK0737a     TTCGCCATCACTGCTTAGGGGAAAGTCCCCGGGCAGTGGGCAGAGATGTCCTGCATACA
*****
***** ** *****
```

### ZK0737b: 2bp deletion

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

```
WT          TTCGCCATCACTGCTTAGGGGAAAGTCCCCGGACACTGGGCAGAGATGTCCTGCATACAG
ZK0737b     TTCGCCATCACTGCTTAGGGGAAAGTCCCCG--ACTGGGCAGAGATGTCCTGCATACAG
*****
***** *****
```