

## ZK0841

Target Position: exon 1

### Sense Strand Sequence

acatgctcacatcgcacaacattattgtttgtttgtcgtgtatgattttatgcaattaaatagcagttttaaataataac  
ctgcattgtgacaccaccatatacaagtctgttatgtaaaatgttgaaatctacacagtgtagcatgtacttcatcaatta  
cggtaactttcccgaaggtaaacgaataaccggaagcaattgtcaacAGACAGAACGTTACGGACGTTAAGT  
AATTGTCAACCGAATACAAACGTCCATACAATTAACCGTCGCAGGCTCGCAGCGTAGTTTTT  
GTCATCATGACAGAAATCTTCTCCTCGTTGTATGGCCAGCCTGATTCCCAGGGCCCCGCA GGA  
CCGTCCGCGCTGGGCTTTGGCTCTGGGAAACCTCAGGTCCCCAAAACATGGGCCCCGATGTG  
TTTCCCGCATCAGATGATGGAAGAAGGGGCTCCGGTCAGAAAACCGGCTG CGATGAACGAG  
CCCTTCTAT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0841a:13bp deletion

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

```
WT          CCAGGGCCCCGCAGGACCGTCCGCGCTGGGCTTTGGCTCTGGGAAACCTCAGGTCCCCA
ZK0841a     CCAGGGCCCCGCAGGACCGTCCGCG-----CTGGGAAACCTCAGGTCCCCA
*****

WT          AAACATGGGCCCG
ZK0841a     AAACATGGGCCCG
*****
```

### ZK0841b: 50bp deletion

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

```
WT          TCCCAGGGCCCCGCAGGACCGTCCGCGCTGGGCTTTGGCTCTGGGAAACCTCAGGTCCCC
ZK0841b     TCCCAGGGCCCCGCAGGACCGTCCGCG-----
*****

WT          CAAAACATGGGCCCGATGTGTTTCCCGCATCAGATGATGGAAGAAGGGG
ZK0841b     -----TGTTCCTCCGCATCAGATGATGGAAGAAGGGG
*****
```