

ZK0421

Target Position: exon 11

Sense Strand Sequence

```
TGCTGGTCGACAAATGTGTTGTTAAAGTAACAAGAGTGGAGAGCGACTTGCTGGCACAGT
CTACAAGACAAGTCAAAGAAGCTTCCCCTGAGCGACTCTTGACCCCTACTCTCACCACCACAT
CCAGCCAAAATGACCCTGATGCGGGCCACACAAGCTCCCAGACGTCTTTAATATTGGATGAAG
GACAAGTATCCAAAAACACAAACTCCACCGCCCAGTCTGAGCCTGAATCAACCTCAGAGAGT
GACATCATTGTGGATGTGACTCTAGGCTCAGAAAGAAGTCTGAGAATCCTAATCAAACATTA
AACTGTGAATCTGTCTCAGAAACCATTGCACCTTCTATTCTGTGACCCATTCACTTACACTCC
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0421a: 4bp deletion

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

```
WT          TATCCAAAAACACAAACTCCACCGCCCAGTCTGAGCCTGAATCAACCTCAGAGAGTGACA
ZK0421a     TATCCAAAAACACAAACTCCACCGCCCAGT----GCCTGAATCAACCTCAGAGAGTGACA
*****
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