

ZK0843

Target Position: exon 9

Sense Strand Sequence

ggatgctactttgccgataacaataacatttaatgtaatctaataatctagatattcatcacagaattacaaaaatgaaagtgtttta
ctgcaggatttagcgacatactgtttatccactatgatgaccgtcaggatacattttattggaaaatgtgtgagcattattagctttgtctg
tgtctttctggaagGTGATCACGGTGATCTGTGTGGCAGTGTGGGGAATAAACATC**GGTCACTTCAATGACCCGG**
TGCATGGAGGCAGCTGGCTGCGTGGAGCTGTATATTACTTTAAGATCGCCGTGGCTCTGGCTGTAGCT**GCTA**
TTCCTGAGGgtgtgcaaat

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0843a: 2bp insertion

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

```
WT          AATAAACATCGGTCACTTCAATGACCCGG--TGCATGGAGGCAGCTGGCTGCGTGGAGCT
ZK0843a     AATAAACATCGGTCACTTCAATGACCCGGTATGCATGGAGGCAGCTGGCTGCGTGGAGCT
*****
```

ZK0843b: 6bp deletion

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

```
WT          GGGGAATAAACATCGGTCACTTCAATGACCCGGTGCATGGAGGCAGCTGGCTGCGTGGAG
ZK0843b     GGGGAATAAACATCGGTCACTTCAATGAC-----CATGGAGGCAGCTGGCTGCGTGGAG
*****
```

```
WT          CTGTAT
ZK0843b     CTGTAT
*****
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