

ZK0428

Target Position: exon 3

Sense Strand Sequence

atgtgatgatggaagactggctgtctgtagaggactgtggcgttcgtggctacactgtttggccctaaatctaaaccgaa
agggcgtggacttatacacatcgtcaccataacacgtatcatgcatggtaataaataaaagtgtccgtgcataatccctc
tattcagatgatcgttatctatagttgtaataatacacaggcgaaaatgaaattaccctgttatgttttactctgagat
attagacttttttttctttttgcatagataacggatttagatgtttgtttctcctgtatttgtgttagGTGTTGAGC
AAGCTGGGTGTGGGCTCGAAATGGCGTTTTGTCGATGTTTTGGGTCTAGAAGATGAATCTT
TGTCAGGAGTGCCCTCACCTGCTGTGCCATGATGCTGCTCTTCCCTTAAACGCAACAGgtac
gtaccgacgcacgtggcagcacatgagcacatcagttgacaaggg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0428a: 4bp deletion

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

```
WT          tctcctgtatttgtgtgtagGTGTTGAGCAAGCTGGGTGTGGGCTCGAAATGGCGTTTTG
ZK0428a     tctcctgtatttgtgtgtagGTGTTGAGCA----GGGTGTGGGCTCGAAATGGCGTTTTG
*****
```

ZK0428b: 9bp deletion

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

```
WT          atgttttgttttctcctgtatttgtgtgtagGTGTTGAGCAAGCTGGGTGTGGGCTCGAA
ZK0428b     atgttttgttttctcctgtatttgtgtgtagGTGT-----AGGGTGTGGGCTCGAA
*****
```

```
WT          ATGGCGTTTTGTCGAT
ZK0428b     ATGGCGTTTTGTCGAT
*****
```