

## ZK0376

Target Position: exon 3

Sense Strand Sequence

CGAGGAGCTGGACTTTACTGTC TTCAAACACTCAAATGCATCAAATCCCAGAAAGAAAAACA  
GACGAATAGTGgtaaacacttatacctactgaaactgcgtttgtttataactttaaaaagtctaaattgaagcaatt  
gtgtgtttgtgctgttaggaactaactttatctttctatgcagGTTGCAGATT CAGATAGGCTTCCTATGTAG  
GGAGCAATTTTGGGTCTGGATCGCTGCAGTCTAATAATATGTGCAAgtgaggtcatcacgttgattg  
attgctgagcaacacttaataacctctcaataatggtgtaaagtgtgcaacaggtatgtgggagttctgacaagca  
gactatgcaaatgaaagttcatagtgtcagctgttcaatatgctgccggtataaccaggtaacagttttacatctgaata  
ttatggacataaatgttaggactcttagagttcaaaggaacttttactcgtttttgtgggtgaaattgtttgcatg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0376a: 10bp deletion

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

```
WT          TTTCTATGCAGGTTGCAGATTCAGATAGGCTTCCTATGTAGGGAGCAATTTTGGGTCTG
ZK0376a     TTTCTATGCAGGTTGCAGATTCAGATAGGC-----AGGGAGCAATTTTGGGTCTG
            *****
            *****

WT          GATCGCTGCA
ZK0376a     GATCGCTGCA
            *****
```