

## ZK080

Target Position: exon 2

Sense Strand Sequence

atcacagacacattttacatcttgtaaaaaggggcataccctttattaccacacaaatggattaatcatgattgttttccagt  
ttttactgaaaattgattacgtttctctgacccacagGTTTTCTCAAATATTGTGCTCCCTGCATTGTGCATT  
AACGTGTTTGTGTACGGCACACTAAAGAAAGGCCAGTCAAACATCATGAACTGACAAACT  
ACACACGGTCAAGCTGAGTTCATCACCTGTGCCCGGACCAAAGATCCATACCCTATGGTGATC  
GCCACCAAAGACAAATTCCCCTTCCTGCTGAATGTGCCTGGCTCTGGACAGCAGGTCTACGGT  
GAGATCTACAACGTTGACCAGAATATGCTGGATTTCTGGATGAGTTTGAGGAATGTCCAGAT  
CTTACCAGCGCACCTCCATCCAGCTGAAGATCCTGAAGGGGAATGGAGATTCTGAGGAGGC  
TTTTGTC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK080a: 5bp deletion

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

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WT          ACAAACACTACACACGGTCAAGCTGAGTTCATCACCTGTGCCCGGACCAAAGATCCATAC
ZK080a      ACAAACACTACACACGGTCAAGCTGAGTTCATCACCTGT-----GACCAAAGATCCATAC
*****
WT          CCTATGGTGATCGCCACCAAAGACAAATTCCCCTTC
ZK080a      CCTATGGTGATCGCCACCAAAGACAAATTCCCCTTC
*****
```