

## ZK025

Target Position: exon 5

Sense Strand Sequence

CCTGCACTGGGGTCACATAGAGATGATGCGTCTGACCATAAACCGCAGCATTGACCCCAGC  
AGCATGTTTGCGGTGTGGCGTTTCCAGCCTCCACACAAACCAATCACACGCAAGAGTCTGG  
GTCAGCGCATGGGCGGAGGCAAGGGCGCCATCGACCACTACGTGACGCCATCAAGTGTG  
GACGGCTAGTGCTGGAGATGGGGGACAACCTGGAGCTGGTCCAGGTGGAGGCCATGCTC  
AAACAAGTGGCCAAAAAACTGCCCTTCCCTGCCAAGgtctgtgcagcacacacacagctgctctgag  
cagcaatgacaaaataacaatgatgacagatctttatgttactttgacttattttattaagctaataaggattgaactgc  
atttaagtcatcacaagtatgtgtgcttattatgtcagtcagtttgccctggtgtaagttggttgagatgactagaaaagttc  
atctgattcatctaaaacagtgtagggcagcga

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK025a: 39bp deletion

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

```
WT          ACATAGAGATGATGCGTCTGACCATAAACCGCAGCATTGACCCCAGCAGCATGTTTGC GG
ZK025a      ACATAGAGATGATGCGTCTGACCATAAACCC-----
*****

WT          TGTGGCGTTTCCAGCCTCCACACAAACCAATCACACGCA
ZK025a      -----TCCAGCCTCCACACAAACCAATCACACGCA
*****
```