

## ZK050

Target Position: exon 3

Sense Strand Sequence:

gatggattgaacaactcttctgtagcaattgctatttctgattggttggtgatttatatagcggatcaccgtttaaatt  
attaaaataaacttttaactagattgtaggtggataaatatacaaatgagagcaaaaatgagctcaaccactgtctctg  
gcaaagctgtgaggaaaagcaacacactattggctgcttttttaagggagatgctactctatgccacttcatgttta  
agttaagatcacatcaaacatttaataaatattgcacatgaatatagcccttaccggattttgtttgttttcccatcag  
GCCTTGCTGTGGTGATGTTCCCGACTCTCTGTATGCTCCGGCCGGTCGCGGCCGCTTTTCG  
GAGGTGTATGAACCGCCGAGGACTCGTTTCTCTGATGGACGCTCTGGAGAAAGACGCA  
GATCGGCTGAAGGACAGCAGtaattcacttacccttacacgtttttatatttatacttatttttccattttctaa  
acgcttttcaaatgacaagaagacagagactgcatccaattcacctactattgaccttaacatacaagccattggaat  
cttttgggtgtgtgtttgtttcagGCCATGTGTGTCTGGAGGTTGGCAGCGGCTCCGGTGTGATCT  
CAGCCCTCCTCGCGTCTTACTCGG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK050a: 7bp deletion

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

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WT          TCCTCTGTATGCTCCGGCCGGTCGCGGCCGCTTTTCGGAGGTGTATGAACCGCCGAGGA
ZK050a      TCCTCTGTATGCTCCGGCCGGTCGCGGC-----CGGAGGTGTATGAACCGCCGAGGA
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