

## ZK0485

Target Position: exon 3

Sense Strand Sequence

cattactgtgattgttgc<sup>1</sup>aaaatatacccatacaaaataagagtggttttgtggtccagaattacattg<sup>2</sup>ttttccattag  
ccaacacagttgttatttttttcttaataaaaatatttattttaa<sup>3</sup>atgtagGTTAATTATCCAGGCCA<sup>4</sup>AGGACATGG  
GCAAAGCACCTCTTACAGGCACTTGTACTGTCCGTGCCAGGTTGTAGATGTA<sup>5</sup>AATGACAATA  
GTCCACAATTCCATCCATGGAAGCAGTGACTATTGCAGAAgtaagtaactag<sup>6</sup>ttttgttactgatta  
aagcagaacatactgaaatcttttttgaacattgtc<sup>7</sup>caaaaagattaataaacaacttctttatagatcttctcttggttat  
attgtcaccgagtgattgcaaacgatgtggaccttagtcc<sup>8</sup>tcagcaacatacagatt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0485a: 5bp deletion, 21bp insertion

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

```
WT          tttattttaaatgtagGTTAATTATCCAGGCCA-----AGGACATGGGC
ZK0485a     tttattttaaatgtagGTTAATTATCCAGGCCACCTCTTGTGCATAATGTACAAATGGGC
*****
. * *****
```

```
WT          AAAGCACCTCTTACAGGCACTTGTACTGTCCG
ZK0485a     AAAGCACCTCTTACAGGCACTTGTACTGTCCG
*****
```

### ZK0485b: 6bp deletion

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

```
WT          tttattttaaatgtagGTTAATTATCCAGGCCAAGGACATGGGCAAAGCACCTCTTACAG
ZK0485b     tttattttaaatgtagGTTAATTATCCAGGCCAA-----GGGCAAAGCACCTCTTACAG
*****
*****
```

```
WT          GCACTTGTACTGTCCG
ZK0485b     GCACTTGTACTGTCCG
*****
```