

## ZK0580

Target Position: exon 7

Sense Strand Sequence

TAATAAGTTGGCGGTCCAGAAGTTCTTGCCTGGATGGGCAGCTAGATGTGGTTCAGT  
GATTCTGGAGCCAATCTTCTCCGATTCTGAGCCACACGGCAGAGGCCCCCTGGGGATGGGG  
CTACTTTGGATATCCAGAGACAGCAGAGGATGGATATGCTGGATCAGCAACTGCTCCTTTCTC  
AGCTGGCACACTTCAGAAGAAATGCACAGCAACAGCAGGCTCAGgtacttctattgtctttattgaa  
tttgctgaatttcagggtgtgctgaggcctcatcgggtcttctcttcaccagtagccagagcagttgacctgtgaataac  
ttggtcctaaacagactaagattgggtaccgaaacctgttgacaggtgacattaggtgttgtcttggtgcttagggaacg  
gac

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0580a: 22bp deletion

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

```
WT          AGATGTGGTTCAGTGATTCTGGAGCCAATCTTCTCCGATTCTGAGCCCACGGCAGAGGCC
ZK0580a     AGATGTGGTTCAGTGATTCTGGAGCCAATC-----CAGAGGCC
            *****

WT          CCCCTGGGGATGGGGGCTACTT
ZK0580a     CCCCTGGGGATGGGGGCTACTT
            *****
```