

## ZK0790

Target Position: exon 9

Sense Strand Sequence

tcaaggttgagtaaataatgttttttttttggttgaactatccttttaagtattctcttggttttggtgtagCGGGTGTCTG  
GAGGAGGGTCTGGAGGCTTTATTGAAAGGCACCGGCAGTAATCTGCTCATCCTGAAGGTGTC  
ACATTGTCCAAATCTACTGACAGATCGCTCTCTGTGGTTGGCCAGCTGTTACTGCAGGGCACT  
ACAAGCTGTACATACAGgtgagtcctgtgtgctttatcactctatggctggtacagtacactggattctgattgg  
tcaatttcagatattacatgataattcttactgtacccaaag

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0790a: 5bp deletion, 6bp insertion

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

```
WT          TGTCCAAATCTACTGACAGATCGCTCTCTGT-GGTTGGCCAGCTGTTACTG
ZK0790a     TGTCCAAATCTACTGACAGATCGCTCTCAGTAGATTGGCCAGCTGTTACTG
*****
***** ** *,*****
```

### ZK0790b: 20bp deletion

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

```
WT          TACTGACAGATCGCTCTCTGTGGTTGGCCAGCTGTTACTGCAGGGCACTACA
ZK0790b     TACTGACAGATCGCTCT-----CTGCAGGGCACTACA
*****
*****
```