

## ZKO1047

Target Position: exon 2

Sense Strand Sequence

CTCCTGAAGAGCATCCAATCATTGAGAGTGTTGAAGATTTTCTGAGGAGCGTTGGAGATG  
GTGAAGTCTCTTATCAGATGTGTTGGTAGCGATGGTTCGAGTGCATGATGATGATGATGA  
TGATGATGATTCGGACTTAAAAGATGAGATGAAATCAAAGAGCAGCGCCGCTGATCATGCT  
GATACTGATAGTGAGAGACCGCTGCGAAACTGTGGCTGCAACATACTCTGaaaatccttttg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO1047a: 2bp deletion

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

```
WT          GCTGATACTGATAGTGAGAGACCGCTGCGAAACTGTGGCTGCACCATACTCTGaaaatcc
ZKO1047a    GCTGATACTGATAGTGAGAGACCGCTGCGAA--TGTGGCTGCACCATACTCTGaaaatcc
*****
```

### ZKO1047b:14bp deletion

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

```
WT          AGCGCCGCTGATCATGCTGATACTGATAGTGAGAGACCGCTGCGAAACTGTGGCTGCACC
ZKO1047b    AGCGCCGCTGATCATGCTGATACTGATAGTGAGAGACC-----GCTGCACC
*****
```

```
WT          AACTCTGaaaatccttttg
ZKO1047b    AACTCTGaaaatccttttg
*****
```