

## ZKO353

Target Position: exon 12

Sense Strand Sequence

```
atgtttcaatcacagttatatccactcatattaatttactgtcttttactatattgtttccagcatgatttattatgttctttcaa
acttctgtttcgattttaagGAAACATCATTGCAGGAGCCACTCTGCTCTCTGCTTCTCTCCAGTCCGC
TGCCTCCCACAATTCCACAGGGAATCTGAAGCATCTTGAAGGCTCTGACAGGGGTCAGGAG
GATCCTGAGAGTCCGCCTCAGGGTTTCAGGAGACGCGCAAGCACTATCAGTCACTCTCCCATG
CTGTCGTCCTCTGAGCCGAGCCTCCCTCCTCTACAGCCCACTGCTGCCAACAACCCAAACTG
GTCGACTACTCCGTCAGCACAGACTCCCCACACCAGAGCAAgtagagacccttgtgtgtttgtgta
tttgtttgtttgttatgcatgcgttttgtgtgtgtgtgcctgtgcgctggttgattcttttggtcatt
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO353a: 4 bp deletion

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

```
WT          AGGGGTCAGGAGGATCCTGAGAGTCCGCCTCAGGGTTTCAGGAGACGCGCAAGCACTATC
ZKO353a     AGGGGTCAGGAGGATCCTGAGAGT----CTCAGGGTTTCAGGAGACGCGCAAGCACTATC
*****
*****
```

### ZKO353b: 23 bp deletion

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

```
WT          GAAGGCTCTGACAGGGGTCAGGAGGATCCTGAGAGTCCGCCTCAGGGTTTCAGGAGACGC
ZKO353b     GAAGGCTCTGACAGGGGTCAGGAGGATCCT-----GAGACGC
*****
*****
```

```
WT          GCAAGCACTATCAGTCACTCTCCCATG
ZKO353b     GCAAGCACTATCAGTCACTCTCCCATG
*****
```