

ZKO360

Target Position: exon 2

Sense Strand Sequence

tattggttactgaagggctctttaagaaccagaaatggttcttctgtgcattatTTTTGAAATATTTATTTAAGGTTACTA
tattcattgacttcattattagtagtacaggttacattagcattcagttacctcttcattcttctcatcaaaacattgattgtttg
tctgttttctgcatcacagGCAGTGACAGGAAGAAGCTTCGGGGATAAGGACTTCAGAAGTGGACT
AGAGAATGGGATTTTGCTTTGCGAgtgagtttactgaaatttaattcttgatgtggatgtaaattctattttctatt
ttttctttttttttagagtttgagattgttgcaagtcttaaatgtttttgatgacatgcaggttaacaataagaagcca
gtat

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO360a: 2bp deletion, 5bp insertion

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

```
WT          GCATCACAGGCAGTGACAGGAAGAAGCTTCGGGGATAAGGACTTCAGA---AGTGGACTA
ZKO360a     GCATCACAGGCAGTGACAGGAAGAAGCTTCGGGGATAAGGACTTCAGAGTTGTTGGACTA
*****
```

```
WT          GAGAATGGGATTTGCTTTGCGA
ZKO360a     GAGAATGGGATTTGCTTTGCGA
*****
```

ZKO360b: 11bp deletion

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

```
WT          GCATCACAGGCAGTGACAGGAAGAAGCTTCGGGGATAAGGACTTCAGAAGTGGACTAGAG
ZKO360b     GCATCACAGGCAGTGACAGGAAGAAGCTTCGGGGAT-----AAGTGGACTAGAG
*****
```

```
WT          AATGGGATTTGCTTTGCGA
ZKO360b     AATGGGATTTGCTTTGCGA
*****
```