

ZKO235

Target Position: exon 9

Sense Strand Sequence

```
CAAGACGACAATTCTGGCGATATGGAAATCACAGAGTGTGCGAACTGATTTTCTCGAAATCAAA
CAATCAACTGAAAACAAGTCATTTGGTAGCTTCTGGAAGAATTTGCCTTCTTCATCTTCATCCA
AGACAGTTGGAGAAGACGAGCATAACAGGCAGCGTCAAAAAGGAAGCTCTGTGTTCAACGTC
TAGTGTAACAAGATGCCCTGCTTTAATTCAAATTCTGATGATATGGAAATGACACAGTGTCAC
ACTGTTTTTCTTCAACCTAAACATGTCAGTGGGGATGAATCATTAAAGTGTTC AATAAAAAATG
GACCTCTTACATCACTATCTGGAAGTGAAGGCGGGGATGAGATGGACATGACTCAAGTACCCA
CTGGGCGTATAATACTAAATGGTCATTCTTCTATAAAAAGGAAAAAGGTGAAAGCATTCTGAT
ACCTGCTTCAGCTACATCACCTGTGCATAATAAGAGTGACTATATGGACTTGACATGTGTACAA
AGTACTTTTGCAGAGACTTCTCTCCCATGTCCAGACGAAATGGAATTTACAGCATGCGTCGCT
GACATTGCCTCAAACCGAACAGGAAGAAGTCT
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO235a: 3bp deletion, 11bp insertion

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

```
WT          TGTTCCAATAAAAAATGGACCTCTTACATCAC-----TATCTGGAAGTGAAGGCGGG
ZKO235a     TGTTCCAATAAAAAATGGACCTCTTACATCTTACATCTTACATCTGGAAGTGAAGGCGGG
*****
WT          GATGAGAT
ZKO235a     GATGAGAT
*****
```

ZKO235b: 5bp deletion, 3bp insertion

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

```
WT          TGTTCCAATAAAAAATGGACCTCTTACATCACTATCTGGAAGTGAAGGCGGGGATGAGAT
ZKO235b     TGTTCCAATAAAAAATGGACCTCTTACATCAC--GCGGGAAGTGAAGGCGGGGATGAGAT
***** * *****
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