

ZKO436

Target Position: exon 1

Sense Strand Sequence

aaatcgttttacatggttgcgatgttccatttatatttagcattaatggattatcttcaaacattaatctcgaaaacatt
atthtaaaaaaaggtaagtctattttaagcttataccatacgcacccatcctaatacaattatgtgtgctcttctcatcttt
tccAGTAGGAGGCGCATGTTCTGATTTCTTTGCATAACACGGTCTCGTGCTCGTGAAGACAGAA
TGGCAGCTACAGATGCACAGAAAGTGATTGTTTACGGGGGAAAAGGAGCTCTGGGCTCGGC
ATGTGTGCAGTATTTCAAAGCTAAACACTGGGtaagttgtataaaccagaagacaagacacattattgaa
ataactattccccctttcagtgtcatcagacacgcttcacgtgttttagtagtactattaataattactcaaaaca
tgttatgtgttctcattaactatatacggatcatgcatcttctctggcctgtaatatgtcaataaggaacatggttgtgttggg
tttcagTGGGTTGCCTCTATTGATCTCAGTGCCAATGAAGAAGCCAATGCCAATGTTACAGTTAA
AATGACTGAGTCCTTCACTGAGCAAAGCCAACCAGGTAAGAAGGAAA

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO436a: 19bp deletion

CLUSTAL format alignment by MAFFT G-INS-i (v6.850b)

```
WT          CTACAGATGCACAGAAAGTGATTGTTTACGGGGGAAAAGGAGCTCTGGGCTCGGCATGTG
ZKO436a     CTACAGATGCACAGAAAGTGATTGTTTAC-----GCTCGGCATGTG
*****
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WT          TGCAGTATTTCAAAGCTAA
ZKO436a     TGCAGTATTTCAAAGCTAA
*****
```

ZKO436b: 7bp deletion, 26bp insertion

CLUSTAL format alignment by MAFFT G-INS-i (v6.850b)

```
WT          AAAGTGATTGTTTACGGGGGAAAAGGAGCTCT-----GGGCTCGGC
ZKO436b     AAAGTGATTGTTTACGGGGGAAAAGGAGCTATACGGCATGCTATACGGTAGAAATACGGC
*****
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```
WT          ATGTGTGCAGTATTTCAAAGCTAAAC
ZKO436b     ATGTGTGCAGTATTTCAAAGCTAAAC
*****
```