

ZKO1156

Target Position: exon 4

Sense Strand Sequence

tctgttaaacatcattcggaatattataaaaaaaaaaatttcaaagggggcggaataattctgacttcacctgtatattaa
ttgtgaagcatattaacatcaacaacaaatgtagtggcatcccatgtttatttagATGGTGTGTATTGGCAAGTT
CCCGGTTCGCAGCATCACTCTCTGGAGGCCACGGGTACGCAGCGCTTGCCTGGTGGCA
GCTAAGGATTCGAGAGCGCCGGCAGGTGGTGCCTGGCTGGGAAAGCAACAACACGCT
ATGGAGGCTATGGCACTACTCAGgtatttcatcaagtgaacaaatgagtaggtgggtgactgagaatgtg
cacatggtcaaaactaataaaagttgacgaaaacttaaaggggggtgcattttccatgttaaatgagctactgtccat
tggtgtcaatgtgaacatgctgatgatggatgcat

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO1156a: 5bp deletion

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

```
WT          TTACGCAGCGCTTGCCTGGTGGCAGCTAAGGATTCGAGAGCGCCGGCAGGTGGTGGC
ZKO1156a    TTACGCAGCGCTTGCCTGGTGGCAGCTAAGGATTCGAGAGC-----GCAGGTGGTGGC
*****
WT          CTGGCTGGGAAAGCAACAAA
ZKO1156a    CTGGCTGGGAAAGCAACAAA
*****
```

ZKO1156b: 8bp deletion

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

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WT          TTACGCAGCGCTTGCCTGGTGGCAGCTAAGGATTCGAGAGCGCCGGCAGGTGGTGGC
ZKO1156b    TTACGCAGCGCTTGCCTGGTGGCAGCTAAGGATTCGA-----GGCAGGTGGTGGC
*****
WT          CTGGCTGGGAAAGCAACAAA
ZKO1156b    CTGGCTGGGAAAGCAACAAA
*****
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