

ZKO1134

Target Position: exon 2

Sense Strand Sequence

ctgtggattctttctggatgtgctgtgcatttgaccctgtttctgtcccacagGATCTGCTGCTGTGGCTTTCATGA
GCTACACCACTATGGAGAATCTACTGAAGGCCGACTTCTCAACTCACAAAATAACACCAATAA
AACCATGATGTCCACTGTGATCTCAGCTACACTTCCAAAACCACCAACTGCACTCACCAAA
CCAGTCAACTTCACCTTCAGACACATCAGAgtgagttcatttagagcgattctgttgaaaggcatggctgatg
gtcatgtgctgaatatgggaactagtgttttggactatctgaggaccagcacataggtcaaaccagcatgcatgctttaa
aacatacctaaccagcagatcctggttttatttacaggctcattgggaatacgcggccaatttgggaaaaccacatag
gtttgtctgcagtttgggttacggtgttattacaccactgacaacttctgtcccttttagcgcttatactgacattaaca
ggaaca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO1134a: 8bp deletion

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

```
WT          ACACTTCCCAAACCACCAACTGCACTCACCAAACCAGTCAACTCACCTTCAGACAC
ZKO1134a    ACACTTCCCAAACCACCAACTACTACTACCA-----AACTTCACCTTCAGACAC
            *****.*****
            *****

WT          ATCAGAgtgagttcatttagagcgatt
ZKO1134a    ATCAGAgtgagttcatttagagcgatt
            *****
```

ZKO1134b: 1bp deletion

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

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WT          ACACTTCCCAAACCACCAACTGCACTCACCAAACCAGTCAACTCACCTTCAGACAC
ZKO1134b    ACACTTCCCAAACCACCAACTGCACTCACAAA-CAGTCAACTCACCTTCAGACAC
            *****
            *****

WT          ATCAGAgtgagttcatttagagcgatt
ZKO1134b    ATCAGAgtgagttcatttagagcgatt
            *****
```