



ZKO1169

Target Position: exon 1

Sense Strand Sequence

CAGGTGATGGGTGTGGTTCTGGGCGTGTCCGGCTGGGTGTTCTGGGATCGTGGTCT
GCATCGCCCCCTGGTGGCGCACGTCTGCATTCGTGGGCGATGAGCTGGT**GGTGTC**
GCAGGTGCTGTGGGAGGGGCTCTGGATGTCCTGTCTGTCTCGGAGCGGGGTCGCCTG
CAGTGTAATAATCTACGATTCGGGACTGGCGCTGTCAGGATCCATGCAGACGTGCC
GCGCGCTGTGCGTTTTGTCTCTGCTGCTGTGTGTGTTGGCGCTACCGC**TCTGCATC**
ACTGGCCTCAAG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO1169b: 33 bp deletion + 8 bp insertion

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

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WT          CTGGTGGCGCACGTCTGCATTCGTGGGCGATGAGCTGGTGGTGTTCGAGGTGCTGTGGGA
ZKO1169b   CTGGTGGCGCACGTCTGCATTCGTGGGCGA-----CACCA
          *****
          .. *

WT          GGGGCTCTGGATGTCCTGTCTGTCTCGGAGCGGGG
ZKO1169b   CCAGCTCTGGATGTCCTGTCTGTCTCGGAGCGGGG
          . *****
  
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