

ZK030

Target Position: exon 5

Sense Strand Sequence

GCTGGGtaaacactcgtcgtcatccgtcatgcagagtaacgggtgttgcgccctgtgtttgacctgtttctgctgtagTTCC
TCCTCAGACTCCCTCATGTGACGTGCCAGCTCTGCTCTGACGGGCTCTCAGGTGGAGCTGCG
CTGTAGAGACCGACACAGCATCCCACCTGCCGTCTACACCTGGTACAAAGACAACCGCGCACT
GCCCA^{TCCGCCATCCCAACGCCACC}TACACCGTCAATGAGTTCACCGGTGTACTGgtcagtagagg
aaacaaataaacactcataacacctagcgcaccacattccaacacTCATATCACCTCACAATAACAGTCCAAA
CACTCATAACTATAGCAACTAAAgtcctaactcagaac^{accaatcaaccagattccaca}

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK030a: 7bp deletion

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

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WT          CTGGTACAAAGACAACCGCGCACTGCCATCCGCCATCCCAACGCCACCTACACCGTCAA
ZK030a      CTGGTACAAAGACAACCGCGCACTGC-----CCATCCCAACGCCACCTACACCGTCAA
*****
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ZK030b: 1bp deletion, 9bp insertion

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

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WT          CTGGTACAAAGACAACCGCGCACTGCCATCC-----GCCATCCCAACGCCACCTAC
ZK030b      CTGGTACAAAGACAACCGCGCACTGCCATCCCATCCCAGCCATCCCAACGCCACCTAC
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WT          ACCGTCAATGA
ZK030b      ACCGTCAATGA
*****
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