

ZK0342

Target Position: exon 4

Sense Strand Sequence

tttgatcagcattttcctcagtaatgacacttctcagatgcattgtgctacaatatctgtgatattttcaatttgtgtctccta
atgtgtgccctcatgtcttacattttctattctaccttcttatcgtctcatagatttcaccactcatattgtttgtcttacagtg
actttacagattacattaccacagttccatctcttataaagtgtttgtatgttaccagGGTCAAATGACAGTGAAT
GGAAGCTCTCAGTCTCAGAGGCCCTTCTCTCCACCTGCACACCCTCCTCCACCACCACCA
ATCCTCAGCCCAGGCCTGGTACAGATCCAGCATGGGCATAGTTCTGgtgagcagaatgaactacaaa
tgcctttggctttagtatttgagtattagcataacattaacctactgatgtctttattattctgcatacactgaaa

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0342a: 5bp deletion,4bp insertion

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

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WT          TCTCAGTCTCAGAGGCCCTTCTCTCCACCTGCACACCCTCCTCCTCCACCACCACCAATC
ZK0342a     TCTCAGTCTCAGAGGCCCTTCTCTCCACTCTC-CACCCTCCTCCTCCACCACCACCAATC
*****. * *****
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WT          CTCAGCCCAGGCCTGGTACA
ZK0342a     CTCAGCCCAGGCCTGGTACA
*****
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ZK0342b: 21bp deletion

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

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WT          TCTCAGTCTCAGAGGCCCTTCTCTCCACCTGCACACCCTCCTCCTCCACCACCACCAATC
ZK0342b     TCTCAGTCTCAGAGGCCCTTCT-----CTCCACCACCACCAATC
*****                                           *****
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WT          CTCAGCCCAGGCCTGGTACA
ZK0342b     CTCAGCCCAGGCCTGGTACA
*****
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