

ZK0405

Target Position: exon 8

Sense Strand Sequence:

ttggtgccagtaaatacaggaattgactcattggttggaacgctgctttattcacatattttatgcaatatttcagtttgcac
atacattttatttagcatctttatatggaacatagctattgtcagctcaaattagcaaacatttagagcttacatgggtcctt
tgacagGCCACTGAGAGCGAGTGTGGAGACATGGATCTAAGTGGGCTTCCTGAAACAGCAGTG
GACTCAGACGAGGATGATGATGATGAAGACGTAGGAAGGGGAACGGACCATCTTATGAGTCG
GGATATTGTGAGAGACTGCCTTGAAAAAGACCCTATGGACCGTACAGATGATGACATTGgtactt
ttagcttgagtccttcaatgattgaaattcaatatgatgatgcactttcatttcactttctgggtgttatctgtttcttcaat
ttcttactccatttctgtttacagAGCAATTGCTGGAGTTTGTTCAGCAGCTCCAGCATTGCCAGTCT
GAGTGTTTCGGTGCGAAGGGAAGTCTGTGCTGT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0405a: 2bp deletion, 16bp insertion

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

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WT          GTGGAGACATGGATCTAAGTGGGCTTCCTGAAAC-----AGCAGTGGACTC
ZK0405a     GTGGAGACATGGATCTAAGTGGGCTTCCTGAAACTCAGACGAGTTGGACTCAGTGGACTC
            *****
            *****

WT          AGACGA
ZK0405a     AGACGA
            *****
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