

ZK0923

Target Position: Exon 4

Sense Strand Sequence

ttgtgtttgtagATGTATGAAGACCTCAAGCTTGAGAAGGAGCATGTTCCAGTTGGAAGGGAGATCGCTGG
GGTTGTTCTCAAGgtgtgacttctgtacattttacttccggacagtaatacaataaacctgcctgatgaatctgatgggatgcacatct
tttttcagTGGGACCCAAAGTGATGTTTTCCAACCAGACGATGAGGTTGTGGgtaagaactctttggactatgtgttt
actagagtctgcttttaggtgtgcataatacaataaacatttgcatttctcctcagGGATTCTCCATTGGATGCTGAGCAGTCTG
GCCTTTGTTCAAGTCGTGCTTATTGACG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0923a: 1bp insertion

CLUSTAL format alignment by MAFFT L-INS-i (v6.850b)

```
WT          gggatgcacatctttttttcagTGGGACCCAAA-GTGATGTTTTCCAACCAGACGATGA
ZK0923a     gggatgcacatctttttttcagTGGGACCCAAATGTGATGTTTTCCAACCAGACGATGA
*****

WT          GGTTGTGGgtaagaacttctt
ZK0923a     GGTTGTGGgtaagaacttctt
*****
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ZK0923b: 2bp deletion

CLUSTAL format alignment by MAFFT L-INS-i (v6.850b)

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WT          gggatgcacatctttttttcagTGGGACCCAAAGTGATGTTTTCCAACCAGACGATGAG
ZK0923b     gggatgcacatctttttttcagTGGGACCC--AGTGATGTTTTCCAACCAGACGATGAG
*****

WT          GTTGTGGgtaagaacttctt
ZK0923b     GTTGTGGgtaagaacttctt
*****
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