

ZK0340

Target Position: exon 2

Sense Strand Sequence

GAATCACCCAAAGCAAACA ACTCGAGAAACAGCAACTTATAGAAGCAGCTGTGAAAAATGAC
TTAGAAGAACTTCCGATGAAAGAAGATTCAGCTAGAATTAAGAGAGGAAGATCCTGACACA
ACTACAACAAGAAAACCTGATTCTACAAGAGAAATTGGAGCAGAAGTGTCAGGTGATGAAAT
ATGCAGTCAGTAAAGCGGAAAGAGTTCAGACAGAGCTGGACGAAGTGGAAAGCTGTCTGCT
CACTCTACAGACTGAGAGGAATCTGCTGCGGCAGGAGGTAAAGAGGCTCCATGAGGAATATA
TCTGCCTTACTAACAGCATCTCACTGCAGATGAAGAGAAACAGCAACGGTTTCGGGAAAAGC
TTCACAGTCTACAACAGCAAAGTCCACCTCTTAAGTGTGCTGAAGGtaagctccgtgtaa

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0340a: 179bp deletion

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

```
WT          TCAGGTGATGAAATATGCAGTCAGTAAAGCGGAAAGAGTTCAGACAGAGCTGGACGAAGT
ZK0340a     TCAGGTGATGAAATATGCAGTCAGTAAAGCGGAAAGAGTTCAGACAG-----
*****

WT          GGAAAGCTGTCTGCTCACTCTACAGACTGAGAGGAATCTGCTGCGGCAGGAGGTAAAGAG
ZK0340a     -----

WT          GCTCCATGAGGAATATATCTGCCTTACTAACAGCATCTCACTGCAGATGAAGAGAAACAG
ZK0340a     -----

WT          CAACGGTTTCGGGAAAAGCTTCACAGTCTACAACAGCAAAGTCCACCTCTTAAGTGTGCT
ZK0340a     -----CTCTTAAGTGTGCT
*****

WT          GA
ZK0340a     GA
**
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ZK0340b:10bp deletion

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

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WT          TCAGGTGATGAAATATGCAGTCAGTAAAGCGGAAAGAGTTCAGACAGAGCTGGACGAAGT
ZK0340b     TCAGGTGATGAAATATGCAGTCAGTAAAGCGGAAAGAGTCA-----GACGAAGT
*****
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WT          GGAAAGCTGTCTGCTCACTC
ZK0340b     GGAAAGCTGTCTGCTCACTC
*****
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