

fzd10^{sdu23/+} (CZRC catalog ID: CZ423)

Nature of the mutation

Between 635 bp to 642 bp of the wild-type *fzd10* coding sequence, ACTCCAAC is mutated to CCTGTGCCCCAAGT in exon 1. The mutated *fzd10* codes for a truncated protein containing 429 aa, of which 580 aa are identical to wildtype *fzd10*.

Sense Strand Sequence

GACTGCCAAATAAAAACGACC CCAATTACCTCTGTATGGAAGCTCCCAACA
ATGGCACAGATGAGCCCCAAAGGGCTCCCACACTCAGTCGCCAGACTCC
CGACCCCCTCGGCCAGGTAACAGCCAAGAAGTGCCTATTAAAGAGAGGGT
CGGTAAGACCATGCAGCAACCCTGGAAAGTTTCATTATGTGCAAAAGA
GTGAGT CCTGTGCCCCAAGT GTTACTCCAACGTAG ATGTGTACTGGAGCC
AGGGCGACAAACGTTCTCCATGGTGTGGATTGCTATCTGGTCCATACTGT
GCTTCATCTCTAGTGCCTTTACTGTCCTCACCTTCTCATTGATCCCCAGCGC
TTTAAGTACCCTGAGCGGCCCATCATCTTCTTCTATGTCCTACT GTGTCTA
CTCTGTGGGCTTT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : TALENs target site

Genotyping assay

Primers:

sdu23_forward: 5' GACTGCCAAATAAAAACGACC 3'

sdu23_reverse: 5' AAAGCCCACAGAGTAGACAC 3'

PCR program:

95°C 5min
95°C 30 sec
58°C 30 sec } 30 Cycles
72°C 30 sec
72°C 8min
4°C hold

Product size: 422 bp

The sequencing results of the CZ423:

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.397)

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WT          CAAAAGAGTGAGTCCTGTGCCCCCAAGTGTACT-----CCAACGTAGATGTGTACTG
sdu23      CAAAAGAGTGAGTCCTGTGCCCCCAAGTGTCTGTGCCCCCAAGTGTAGATGTGTACTG
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***** **          * * .*****
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Reference:

None