

***klf2b*^{ihb250/+} (CZRC catalog ID: CZ457)**

Nature of the mutation

Between 737 bp to 738 bp of the wild-type *klf2b* coding sequence, TG is mutated to ACC in exon 2.

Sense Strand Sequence

GGCAGAGCTCCTGCGATCTGATGTAGACTCCACGTATGACACCACAGTGCAGGGGAGATTCCTGCTCAACTCCAGCGGCTTCCCCAGACAGGAGTTTCCTGAAATCAAAGTGGAGCCGCCGATGGATGGCTACGGTCCGGTGATAGGCATGGTGCCACAAACCTGCCAAAAAATCAAGCAGGAAGGCAACGTTTCATGCATGATGTCTTTCGAGCAGCCCAGACTAGCAGTTCTCCGCAGGCCACCGGGAATGACTCCTCCGCTGAGTCTTGACGACTCCCACCTCCGTCAAACGACATATACACAGAGCTACCATCACTCTCCTCCGGCGTATCCGCAGGTGCCAATGCAGTTCACCGCGCCACACCAGTTTGCCATGTATGAGGAGGCAATGGGGATGCAACCAGCATGCAGCGGGCTTTCTCACTCCTCCGTCTCTCCGTTAGAGCTAATGGAGTCTAAACCCAAGCGAGGGCGACGCACCTGGCCGAGGAAGCGCATGGCGACACATACATGCACATACGCCGGCTGCGGGAAGACGTACACCAAAGCTCC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

***klf2b*_forward:** 5' GGCAGAGCTCCTGCGATCTG 3'

***klf2b*_reverse:** 5' GGAGCTTTTGGTGTACGTCT 3'

PCR program:

95°C 5min

95°C 30 sec

60°C 30 sec

72°C 30 sec

72°C 8min

4°C hold

} 30 Cycles

Product size: 562 bp

The sequencing results of the CZ457:

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WT          GTCAAACGACATATACACAGAGCTACCATCACTCTCCTCCGGCGTATCCGCAGGTGCCAA
CZ457       GTCAAACGACATATACACAGAGCTACCATCACTCTCCTCCGGCGTATCCGCAGGTGCCAA
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WT          TGCAGTTCACCGCGCCACACCAGTTGCCATGTATGAGGAGGCAATGGGGATGCAACCCA
CZ457       TGCAGTTCACCGCGCCACACCAGTTGCCATGTATGAGGAGGCAATGGGGATGCAACCCA
*****

WT          GC-ATGCAGCGGGCTCTTCTCACTCCTCCGTCCTCTCCGTTAGAGCTAATGGAGTCT
CZ457       GCAACCCAGCGGGCTCTTCTCACTCCTCCGTCCTCTCCGTTAGAGCTAATGGAGTCT-
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Reference:

None