

fndc5b^{ihb254/+} (CZRC catalog ID: CZ461)

Nature of the mutation

Between 169 bp to 170 bp of the wild-type *fndc5b* coding sequence, GT is mutated to TCCAGGAAAC in exon 2.

Sense Strand Sequence

atttggtttgctgtatggaattaaatcatattccaaagtgtgtgtgtgtgtcaacatcagccattagttatacattcattttccagacgctc
atattttcaaagtccagacatattcttcagatgaatattgacctataaagcgacagagatcttactgtatgtcacaccagtagctttatccct
tcatatcttttttcgctcttctgtcatcctcagACAGTTTATCAGCTCCGCTCAATGTGACCATCAAAGCACTGGAGGGGA
ACTCAGCGATTGTGACATGGGACATTCTGGAGGGAGACCCAGTCATTGGGTTTGCCATCACCCAGCAGgtat
aaaatcattttatggtcaatttttgtgtaaaaatgggaaaatcgctcataactcaagtgaatgaggcgatgatgacggaggaatgcttgt
gtaagcatgtagttatgtgtcgtatgcagactggtttgcttttgata

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

*fndc5b*_forward: 5' ATTTGTGTTTGCTGTATGGA 3'

*fndc5b*_reverse: 5' TATCAAAGCAAACCCAGTCT 3'

PCR program:

95°C 5min

95°C 30 sec

58°C 30 sec

72°C 30 sec

72°C 8min

4°C hold

} 30 Cycles

Product size: 488 bp

The sequencing results of the CZ461:

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*****  
WT          tagctttatcccttcataatctttttccgtcttcctgtcatcctcagACAGTTTATCAG  
CZ461       tagctttatcccttcataatctttttccgtcttcctgtcatcctcagACAGTTTATCAG  
*****  
  
WT          CTCCGCTCAATGTGACCATCAAAGCACTGGAGGGGAACTCAGCGATTGTGACATGGGACA  
CZ461       CTCCGCTCAATGTGACCATCAAAGCACTGGAGGGGAACTCAGCGATTGTGACATGGGACA  
*****  
  
WT          TTCTGGAGGGAGACC-----AGTCATTGGGTTTGCCATCACCAGCAGgtataaaa  
CZ461       TTCTGGAGGGAGACCATCCAGGAACCATGGGTTTGCCATCACCAGCAGgtataaaa  
*****  
*.  
  
WT          tcattttatggtcaattttttgtgtaaaacatgggaaaatcgctcataactcaagttaa  
CZ461       tcattttatggtcaattttttgtgtaaaacatgggaaaatcgctcataactcaagttaa  
*****
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Reference:

None