

nfe2l2a^{ihb247/+} (CZRC catalog ID: CZ454)

Nature of the mutation

Between 217 bp to 222 bp of the wild-type *nfe2l2a* coding sequence, CTGCAG is mutated to GAGGA in exon 2.

Sense Strand Sequence

ctgaagtgatattattgtgcagccctagtgtgtgatgcctgacctctgatgtctgttttctctgcagGACATGGATCTGATCGATAT
CCTGTGGCGGCAGGATGTGGATCTGGGCGCGGGCCGTGAGGTGTTGACTTCAGCTAC
CGGCAGAAGGAGGTGGAGCTGCGCAGGCGGAGGGAGCAGGAGGAGCAGGAGCTGC
AGGAGCGTCTGCAGGAGCAGGAGAAGACACTGCTGGCTCAGCTGCAGCTCGACGAG
GAGACCGGAGAGTTCTGCCGCGCAGCACACCGCTCACACACACACCTGAAGCAGAC
GGAGGAG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

*nfe2l2a*_forward: 5' CTGAAGTGATATTATTGTGC 3'

*nfe2l2a*_reverse: 5' CTCCTCCGTCTGCTTCAGGT 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: 320 bp

The sequencing results of the CZ454:

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WT      GCAGGAGGAGCAGGAGCTGCAGGAGCGTCTGCAGGAGCAGGAGAAGACACTGCTGGCTCA
CZ454   GCAGGAGGAGCAGGAGCTGCAGGAGCGTCTGCAGGAGCAGGAGAAGACACTGCTGGCTCA
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WT      CCTGCACCTCGACGAGGAGACCGGAGAGTTCTGCGCGCAGCACACCGCTCACACACAC
CZ454   CCTGCACCTCGACGAGGAGACCGGAGAGTTCTGCGCGCAGCACACCGCTCACACACAC
*...* *****

WT      ACCTGAAGCAGACGGAGGAG
CZ454   ACCTGAAGCAGACGGAGGAG
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Reference:

None