

nfe2l2a^{ihb256/+} (CZRC catalog ID: CZ465)

Nature of the mutation

Between 415bp to 419 bp of the wild-type *nfe2l2a* coding sequence, GCCTT is deleted in exon 4.

Sense Strand Sequence

caactgtgttctctctgctgtgctgtaatgctatagtgattgtgtgtgtctttgtgcagAATGGGGCTTTTGCAGAACAG
GAGGCCGATCCCATGTCATTCGATGAGTGCATGCAGCTCCTGGCTGAAACCTTTCCACT
AACAGAGCCGGCTGAGgtaattatgggatatatatacaccgtatacaataacagcacacaccttaacgaacacaacacctc
tcattgtaattgtgctgtgctgtaattgtgtgtgcagTCGGCTCCG**CCTTGCCTGAACACCTCC**GCTCCACCTTC
CACTGATCTCATGATGCCCCGACAGCGTCCCGGCGTTTACCCAGAATCCTTTGCTGCCAG
GATCTCTGGATCAGGCCTGGATGGAGCTGCTGTCA**CTCCCAGAGTTGCAG**gtata

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

*nfe2l2a*_forward_7: 5' CAACTGTGTTTCTCCTGCTC 3'

*nfe2l2a*_reverse_7: 5' TATACCTGCAACTCTGGGAG3'

PCR program:

95°C 5min

95°C 30 sec

55°C 30 sec

72°C 30 sec

72°C 8min

4°C hold

} 30 Cycles

Product size: 416 bp

The sequencing results of the CZ465:

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WT          atcaccctgtatacaataaacagcacacaccttaacgcaacacacacacctctcatgtctaat
CZ465       atcaccctgtatacaataaacagcacacaccttaacgcaacacacacacctctcatgtctaat
*****

WT          tgtgctgtgcgtatgtgtgtgcagTCGGCTCCGCCTTGCCTGAACACCTCCGCTCCACCT
CZ465       tgtgctgtgcgtatgtgtgtgcagTCGGCTCC-----GCCTGAACACCTCCGCTCCACCT
*****

WT          TCCACTGATCTCATGATGCCCCGACAGCGTCCCGGCGTTACCCAGAATCCTTTGCTGCCA
CZ465       TCCACTGATCTCATGATGCCCCGACAGCGTCCCGGCGTTACCCAGAATCCTTTGCTGCCA
*****
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Reference:

None