

***kcnj2a*^{ihb372/+} (CZRC catalog ID: CZ1295)**

Nature of the mutation

In 224 bp of the wild-type *kcnj2a* coding sequence, GG was inserted in exon 1.

Sense Strand Sequence

GAAACAGCACAGA**ACTCCCA**GACTGAGGTGATGGGAAGTGTGCGGGCCAACCGC
TACAGCATTGTGTCATCAGAGGAGGACGGTATGAAGTTGGCCACTGCTGCGGTGC
CAAATGGGTACGGTAACGGGAAGAGCAAAGTGCACACCCGTCACCAAACCCAAA
GCAGGTTTCGTCAAGAAAGACGGACACTGCAACGTGCAGTTCATCAATGTCAGCGA
AAAGAGCCAGCGCTACCTGGCT**GACATCTCACCACATGCG**TGGACATCCGCTGG
CGATGGATGTTTCGTTATCTTTTGCTTGGCCTTCCTGCTGTCGTGGCTGTTTTTTGGAT
GTATCTTCTGGTTGGTTGCCATATTCCATGGAGAC**CTGGAGAACAATGGTCACAA**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

CZ1295_forward: 5' GAAACAGCACAGA**ACTCCCA** 3'

CZ1295_reverse: 5' GAAACAGCACAGA**ACTCCCA** 3'

PCR program:

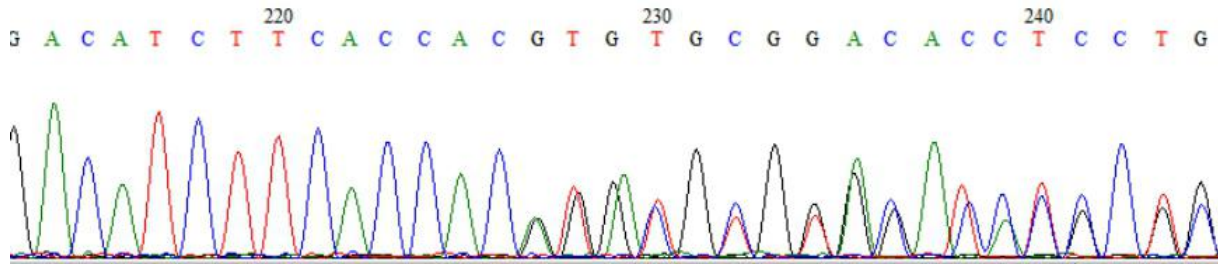
95°C	5min	
95°C	30 sec	} 30 Cycles
58°C	30 sec	
72°C	30 sec	
72°C	8min	
4°C	hold	

Product size: 386 bp





The sequencing results of the CZ1295:



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WT          GACGGACACTGCAACGTGCAGTTCATCAATGTCAGCGAAAAGAGCCAGCGCTACCTGGCT
CZ1295      GACGGACACTGCAACGTGCAGTTCATCAATGTCAGCGAAAAGAGCCAGCGCTACCTGGCT
*****

WT          GACATCTTACCAC--ATGCGTGGACATCCGCTGGCGATGGATGTTTCGTTATCTTTTGCT
CZ1295      GACATCTTACCACGGATGCGTGGACATCCGCTGGCGATGGATGTTTCGTTATCTTTTGCT
*****

WT          TGGCCTTCC TGCTGTCGTGGCTGTTTTTGGATGATCTTCTGGTTGGTTGCCATATTC
CZ1295      TGGCCTTCC TGCTGTCGTGGCTGTTTTTGGATGATCTTCTGGTTGGTTGCCATATTC
*****

WT          ATGGAGACCTGGAGAACAATGGTCACAA
CZ1295      ATGGAGACCTGGAGAACAATGGTCACAA
*****

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Reference:

None

