

kcnv2a^{ihb510/+} (CZRC catalog ID: CZ1452)

Nature of the mutation

8bp deletion, Between 1053bp to 1061bp of the wild-type *kcnv2a* coding sequence, AGTAGGAC is deleted in exon1.

Sense Strand Sequence

AGCTTCCAGTTTCTTCGTGC TGGTATCACTTGTGGCAATGACGC
TCAACACGGTAGAGGAAATGCAATACATAACAACCAATGGACA
ACTAAGTGGAAAGACCTACTGTGAGTATGTCGAGACTTTCTGTA
TTGCATTTTTACCATGGAATACCTGCTCCGGCTTGTGTCCACGC
CAGACCTCACACGCTTTGGGAGAAGTGTGTTGAATGCTGTGGA
CCTGATTGCAATTCTTCCATTGTACCTTCAAATGGTTCTAGAGTC
TTTTGAGAGTCATGACTACTGGAAACATGGTAGTGATATTGAGA
CAGTAGGACGGGTCGGTAAATTGGGCCAAGTTCTCAGAATCAT
GCGTCTGATGAGGATATTCGTATCCTTAAATTAGCACGCCACTC
TACTGGACTTCGAGCATTTCGGCTTCACGCTTCGGCAATGTTACC
AACAAGTGGGCTGTCTGTTCTCTTCATTGCAATGGGAATCTTA
ACATTTTCGGCCATGGTGTATAACCGTCGAGCATGATGTGCATAAA
ACAAACTTCACCAGCATTCCACATGCATGGTGGTGGGCAGCTgta
agtacatctattttcgaattactgtataaaatagccgtgaatgtatctgggtaataataacctgggggtgtt
caattctgtcc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

atcg: Crisper/cas9 target site

Genotyping assay

Primers:

CZ1452_forward: 5'-AGCTTCCAGTTTCTTCGTGC-3'

CZ1452_reverse: 5'-GGACAGAATTGAACACCCCC-3'

PCR program:

95°C 5min

95°C 30sec

60°C 30sec

72°C 30sec

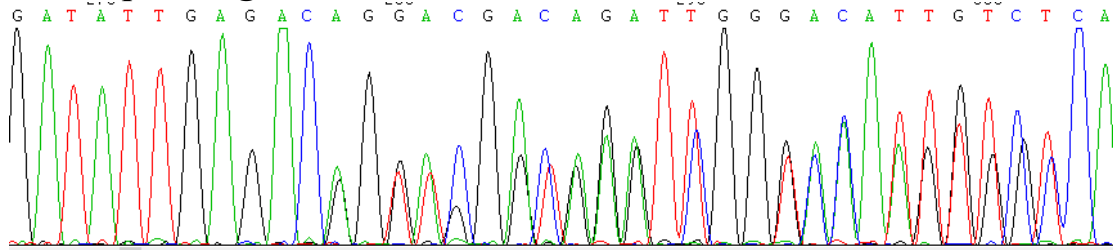
95°C 10min

4°C hold

} 30 cycles

Product size: 660p

The sequencing results :



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WT      ACTGAAACATGGTAGTGATATTGAGACAGTAGGACGGGTCGGTAAATTGGGCCAAGTTC
      |||||
MT      ACTGAAACATGGTAGTGATATTGAGAC-----GGTCGGTAAATTGGGCCAAGTTC
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