

kras^{ihb385/+} (CZRC catalog ID: CZ1337)

Nature of the mutation

Between 150 bp to 157 bp of the wild-type *kras* coding sequence, GTGTCTA is mutated to ATC in exon 3.

Sense Strand Sequence

gcagatgaacttgttagggcactcaacattcatggtgtcaagaccagacctaataaactaatcggatgaatattgtacaaggatctatg
taaatgcgcttgtttgtcacaatgtgatggtgtttttattcagctcaaagaatataattttgctgatgcagGACTCGTACAGG
AAGCAGGTGGTGATTGACGGAGAGACGTGTCTACTGGACATCCTGGACACTGCAG
GTCAGGAGGAGTACAGTGCCATGAGGGACCAGTACATGAGGACAGGAGAGGGCT
TCCTCTGTGTCTTTGCCATCAATAACACCAAGTCCTTCGAGGACATTCACCACTAC
AGgtgagggttgctagaacagatggagtgcagtctcgaaacttcagaaacgaggctgtgaaaagtagagaacgacagggcata
act

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

atcg: Crispr/cas9 target site

Genotyping assay

Primers:

kras_forward: 5' GCAGATGAACTTGTAGGGC 3'

kras_reverse: 5' AGTTATGCCCTGTCGTTCTC 3'

PCR program:

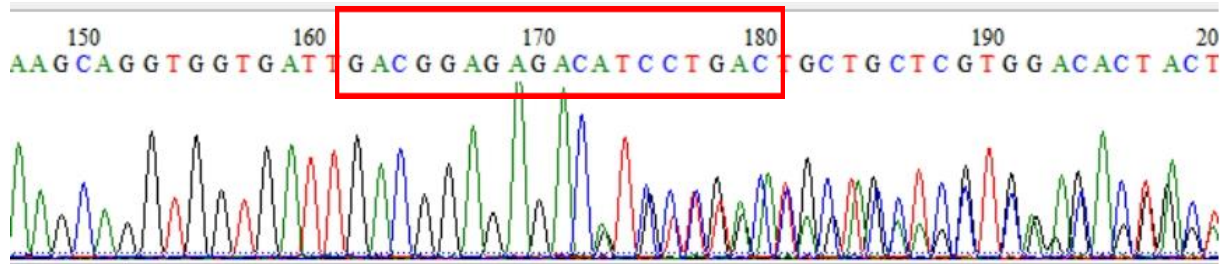
95°C	5min	} 30 Cycles
95°C	30 sec	
58°C	30 sec	
72°C	30 sec	
72°C	8min	
4°C	hold	

Product size: 431 bp





The sequencing results of the CZ1337:



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WT          GACTCGTACAGGAAGCAGGTGGTGATTGACGGAGAGACGTGTCTACTGGACATCCTGGAC
ihb385      GACTCGTACAGGAAGCAGGTGGTGATTGACGGAGAGACA----TCCTGGACATCCTGGAC
*****
WT          ACTGCAGGTCAGGAGGAGTACAGTGCCATGAGGGACCAGTACATGAGGACAGGAGAGGGC
ihb385      ACTGCAGGTCAGGAGGAGTACAGTGCCATGAGGGACCAGTACATGAGGACAGGAGAGGGC
*****
WT          TTCCTCTGTGT
ihb385      TTCCTCTGTGT
*****
  
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Reference:

None

