



acaca^{ihb617/+} (CZRC catalog ID: CZ1603)

Nature of the mutation

Between 5338bp and 5345bp of the wild-type *acaca* coding sequence, GCCTGGCA is deleted in exon 40.

Sense Strand Sequence

GCATGGTAGCATGGCGAATG ACCCTCCGGACCCCTGAGTATCCAGCCGGCCGTGAGATTATAGT
GATCAGCAATGACATCACACATAAGATTGGCTCGTTTGGGCCACAAGAAGATGTTCTGTTCCAG
CAAGCTTCAGAAATGGCAAGAGAAAGTGGCATTCCACGGATCTATATTGCTGCCAACAGCGGA
GCTCGTATAGGCCTGGCAGAGGAGATCAGACACATGTTTCATGTGGCCT GGCAGGATCCGGTGG
ACCC ATACAAGggtttggagtggctccaggggaaggtgatcattaatgtagtggttatcttctggataggtgcataatcagtgctatttctgtgattt
gtagGGTTTTAAGTACCTATACCTCACACCACAGGACTATAAGAAGGTGTCTGCTCTGAACTCAGT
CCACTGTGAACAT GTGGAGGATGAGGGGGAAT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

*acaca*_forward: 5' GCATGGTAGCATGGCGAATG 3'

*acaca*_reverse: 5' ATTCCCCCTCATCCTCCACA 3'

PCR program:

| | | |
|------|--------|-------------|
| 95°C | 5min | } 30 Cycles |
| 95°C | 30 sec | |
| 55°C | 30 sec | |
| 72°C | 30 sec | |
| 72°C | 8min | |
| 4°C | hold | |





Product size: 454 bp

The sequencing results of the CZ1603:

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WT          GCTCGTATAGGCCTGGCAGAGGAGATCAGACACATGTTTCATGTGGCCTGGCAGGATCCG
ihb617      GCTCGTATAGGCCTGGCAGAGGAGATCAGACACATGTTTCATGTG-----GGATCCG
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WT          GTGGACCCATACAAGgtttggagtggctccaggggaaggtgatcattaatgtagtggtta
ihb617      GTGGACCCATACAAGgtttggagtggctccaggggaaggtgatcattaatgtagtggtta
*****

WT          tcttctggataggtgtcataatcagtgatcatttctgttgat
ihb617      tcttctggataggtgtcataatcagtgatcatttctgttgat
*****

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Reference:

None

