

igf2a^{ihb148/+} (AB) (CZRC catalog ID: CZ 298)

Nature of the mutation

Between 202bp and 208 bp of the wild-type *igf2a* coding sequence, ACAGA is deleted in exon 3. The mutated *igf2a* codes for a truncated protein containing 86 aa, of which 197 aa are identical to wildtype *igf2a*.

Sense Strand Sequence

gttgatgctgtctccgatttcagaaatcttaggaacatgccagcagccacatgtgggatttggtgaaatataaacaatagggt
gtgaattgtagcgttgtagctttccagggaacccggagtgatcgttaccttcttccccaccagGCAGGC
CGAACAGATCAAACAGCCGCCGTCCTCAGAGAGGAATAGTGGAGGAATG
CTGCTTTTCGGAGCTGTGAGCTGCATCTGCTGCAGCAGTACTGTGCCAAGCC
GGTGAAGTCGGAGCGAGATGTTTCCTCCTCCTCGCTGCAGGTCTTCCCAGT
GTCACAGGCTCTTACAAGgtacatgaagctgcttatctccccctccccctccaccgaaagccagca
caatgatttctgaaccacaaacacagactcagactagacaggtagtcagacacgcagcctgttttatca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

Genotyping assay

Primers:

CZ298_forward4: 5' GTTGATGCTGTCTCCGATT 3'

CZ298_reverse4 : 5' TGATAAAAACAGGCTGCGTG 3'

PCR program:

95°C 5min

95°C 30 sec

53°C 30 sec

72°C 30 sec

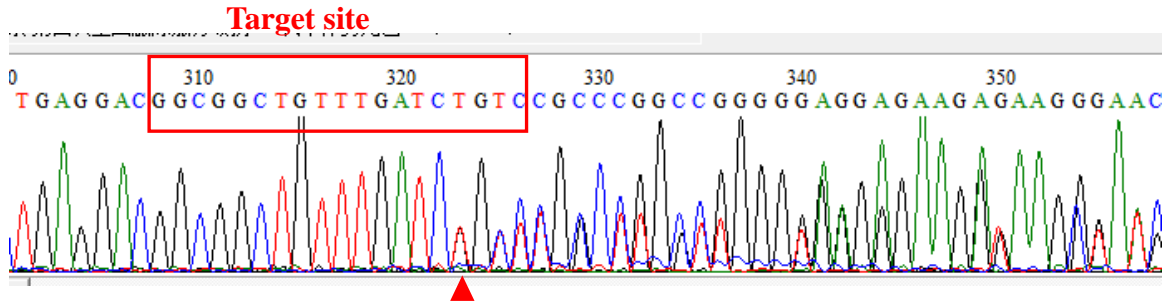
72°C 8min

4°C hold

} 30 Cycles

Product size: 457 bp

The sequencing results of the CZ298(+/-)



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WT          tggtgaaatataaacaatagggtgtgaa ttggtagcgttggtagctttccaggggaa ccc
CZ298      tggtgaaatataaacaatagggtgtgaa ttggtagcgttggtagctttccaggggaa ccc
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WT          cggagttgatcgcttaccttctcttcccca cccagGCAGGCCGAACAGATCAAACAGCC
CZ298      cggagttgatcgcttaccttctcttcccca cccagGCAGGCC-----GATCAAACAGCC
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WT          GCOGTCTCAGAGAGGAA TAGTGGAGGAATGCTGCTTTOGGAGCTGTGAGCTGCATCTGC
CZ298      GCOGTCTCAGAGAGGAA TAGTGGAGGAATGCTGCTTTOGGAGCTGTGAGCTGCATCTGC
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WT          TGCAGCAGTACTGTGCCAAGCOGGTGAAGTCGGAGOGAGATGTTTOCTOCTOCTOGCTGC
CZ298      TGCAGCAGTACTGTGCCAAGCOGGTGAAGTCGGAGOGAGATGTTTOCTOCTOCTOGCTGC
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WT          AGGCTTCCOCAGTGTACAGGCTCTTCACAA Ggtaca tgaagctgcttatctccccctcc
CZ298      AGGCTTCCOCAGTGTACAGGCTCTTCACAA Ggtaca tgaagctgcttatctccccctcc
*****

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Reference:

None