

***igf2b*^{ihb170/+} (AB) (CZRC catalog ID: CZ 316)**

Nature of the mutation

Between 493bp to 499 bp of the wild-type *igf2b* coding sequence, 7bp is deleted in exon 4. The mutated *igf2b* codes for a truncated protein containing 209 aa, of which 212 aa are identical to wildtype *igf2b*.

Sense Strand Sequence

gtaacagGAGGTCCCAAGAA AACATGTGACCGTCAAATATTCCAAATATGAT
GTGTGGCAAAGAAAGGCTGCTCAGAGGCTACGGA GGGGCATCCCTGCCAT
CTTC GGGCCAAGAAGTTCAGGCGGCAGGCGGAGAGAATCAAGGCCAG
GAGCAACTGCTCCACCACAGGCCTCTCATCACGCTTCCCAGCAAGCTGCC
TCCCATCCTTCTTCCCACAGAAA ACTACGTTAGCCACAAGTGAaaagacagatc
gtttgcacagagttgataaaaagactgagggatcaaaagctttttgtctctgacgtcatttctgtggcagtcctcaacaacc
ttctcctacccaccaaacctgc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

Genotyping assay

Primers:

***igf2b*_forward:** 5' GTAACAGGAGGTCCCAAGAA 3'

***igf2b*_reverse:** 5' GCAGGTTTGGTGGGGTAGGA 3'

PCR program:

95°C 5min

95°C 30 sec

58°C 30 sec

72°C 30 sec

72°C 8min

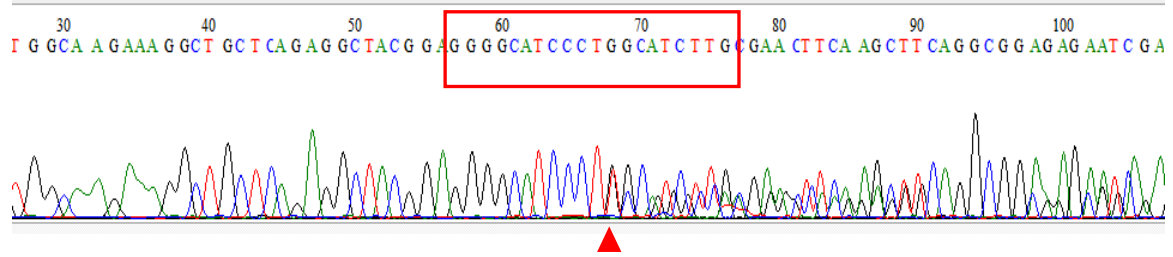
4°C hold

} 30 Cycles

Product size: 365bp

The sequencing results of the *igf2b* (7bp deletion)

Target site



WT GAGGTCCAAGAAAACATGTGACCGTCAAATATTCCAAATATGATGTGTGGCAAAGAAAG

igf2b(-7bp) GAGGTCCAAGAAAACATGTGACCGTCAAATATTCCAAATATGATGTGTGGCAAAGAAAG

WT GCTGCTCAGAGGCTACGGAGGGGCATCCCTGCCATCTGCGGGCCAAGAAGTTCAGGCGG

igf2b(-7bp) GCTGCTCAGAGGCTACGGAGGGGCATCCCT-----TGC GGCCAAGAAGTTCAGGCGG

WT CAGGCGGAGAGAATCAAGGCCAGGAGCAACTGCTCCACCACAGGCCTCTCAT

igf2b(-7bp) CAGGCGGAGAGAATCAAGGCCAGGAGCAACTGCTCCACCACAGGCCTCTCAT

Reference:

None