

## *igf2a*<sup>ihb149/+</sup> (AB) (CZRC catalog ID: CZ 299)

### Nature of the mutation

Between 121bp and 138 bp of the wild-type *igf2a* coding sequence, 16bp is deleted in exon 2. The mutated *igf2a* codes for a truncated protein containing 43 aa, of which 197 aa are identical to wildtype *igf2a*.

### Sense Strand Sequence

ttgggaaagttggagaatcaccctcagttggagactttgaggggttaagtgcagccacttgattgtaccattgataaggat  
aattaccgcgtcctcagtaactttgtctgtcttgcctttgcttttgattaaaatcagcacaatcacatcaggaacatctggt  
taagcagcggattctgaagggactcactgaaattgtttcattcacagATGCGCTCACTGATAGTCTTC  
GTTCTGTCATTGTCCATGTTGATATCCAACGTAACGGCGGGGGAGACTCTC  
TGTGGCGGAGAAGTACTAGTGGATACTGCAGTTCGTGTGTGGAGAAGATGG  
CTTTTATATCAgtaagtgtatctctctgctggtgcaagaaatgtaaacattacatagccattgtcttcagttgta  
ggtttaagccgagctgtctttcaaatggcttattgtatatgtacatgagcactattgactcacaattagtgattaatgaggaac  
gtccccttattgattctc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### Genotyping assay

#### Primers:

**CZ299\_forward:** 5' TTGGGGAAAGTTTGGAGAAT 3'

**CZ299\_reverse:** 5' GAGAACTCAATAAAGGGGAC 3'

#### PCR program:

95°C 5min

95°C 30 sec

53°C 30 sec

72°C 30 sec

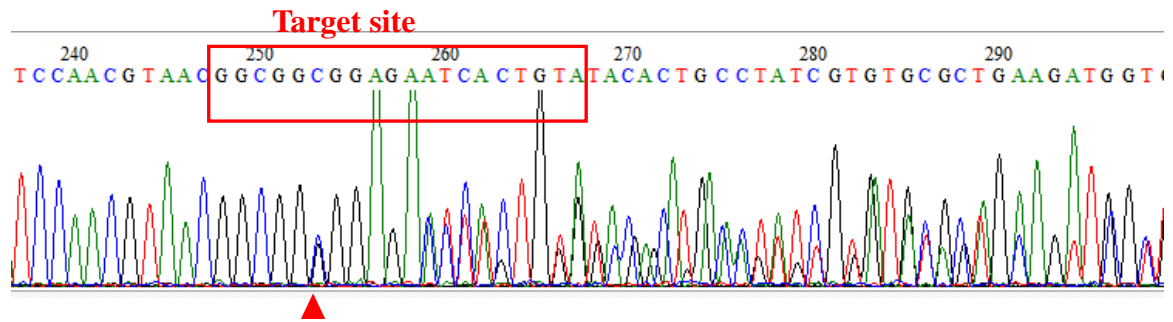
72°C 8min

4°C hold

} 30 Cycles

**Product size: 531bp**

## The sequencing results of the CZ299(+/-)



WT ggatttctgaaggactcactgaaattgttttcatttcacagATGCGCTCACTGATAGT

CZ299 ggatttctgaaggactcactgaaattgttttcatttcacagATGCGCTCACTGATAGT  
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WT CTCGTTCTGTCATTGTCCATGTTGATATCCAACGTAACGGCGGGGAGACTCTCTGTGG  
 CZ299 CTCGTTCTGTCATTGTCCATGTTGATATCCAACGTAACGGCGG-----  
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WT CGGAGAACTAGTGGATACACTGCAGTTCGTGTGTGGAGAAGATGGCTTTTATATCAgtaa  
 CZ299 CGGAGAACTAGTGGATACACTGCAGTTCGTGTGTGGAGAAGATGGCTTTTATATCAgtaa  
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### Reference:

None