

ppp2r3a^{ihb145/+} (AB) (CZRC catalog ID: CZ 293)

Nature of the mutation

In the 149 bp of the wild-type *ppp2r3a* coding sequence, G, is mutated into TGCTACAGTTGC in exon 1. The mutated *ppp2r3a* codes for a truncated protein containing 897 aa, of which 1161 aa are identical to wildtype *ppp2r3a*.

Sense Strand Sequence

CGGCTACTTATCGCATTGTGGTTAGCAGCATAAACTGTTACAACAGCGTTGTTATTGACCGTCGTGCCAGCACACTGTGCACTATTGTAATGGACCCTGTGGTGCGCTAAAACATGGACTGAACTGCACAGTTGCTCACCGCAGTACTTGTGCTGAACTTCTCGATACGTCTATATCCAGAACCTGCTCTGAAAGGCCATAAACCTTCATGAGTCTAAAACCTATAGAGATGGCAACACTGGGCCCTGTTGCCTTCTGTGATGACTACCACCAGGTAATTCCCAGAGTCAAGAAAGGATCAGCCATCCAAAGCTCAGCAAGCCTCAAAGATATTACAGGGGAGGCTATCAACCTGGCCAGTGGGAAAATCAAGGAGTTTTTCATTTGAGAAGATCAAGTACTCCTCCAGCC

atcg : Forward/Reverse primer

Genotyping assay

Primers:

CZ293_forward: 5' CGGCTACTTATCGCATTGTGG 3'

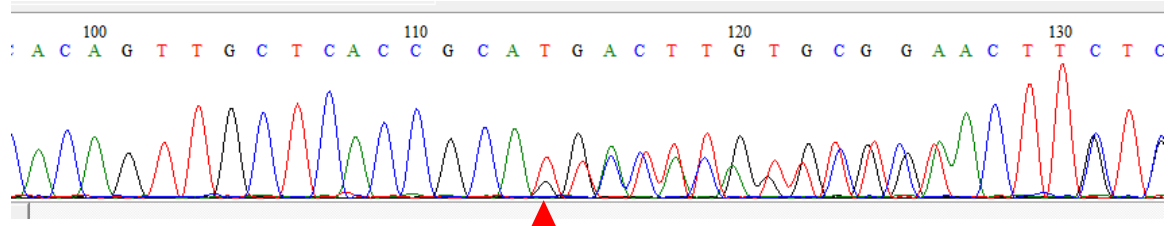
CZ293_reverse: 5' GGCTGGAGGAGTACTTGATCTTC 3'

PCR program:

95°C 5min
95°C 30 sec
60°C 30 sec
72°C 30 sec } 30 Cycles
72°C 8min
4°C hold

Product size: 511 bp

The sequencing results of the CZ293(+/-):



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WT      CGGCTACTTATCGCATTG TG-GT TAG-CAGCATAAACTGT TACAACAGCG TTGT TAT TG-ACC
CZ293   CGGCTACTTATCGCATTG TG-GT TAG-CAGCATAAACTGT TACAACAGCG TTGT TAT TG-ACC
*****

WT      GTGG TG-TOCAGCACACTG TG-CACTATTGTAATGGACCC TGTGG TG-OCG TAAAACA TG-GAC
CZ293   GTGG TG-TOCAGCACACTG TG-CACTATTGTAATGGACCC TGTGG TG-OCG TAAAACA TG-GAC
*****

WT      TGA AACTGCACAGT TG-CTCACCGCA-----G TACTTGTGCTGAAC TTCTCGATAC
CZ293   TGA AACTGCACAGT TG-CTCACCGCATGC TACAG TTGCTACTTGTGCTGAAC TTCTCGATAC
*****

WT      GTCTATATCCAGAACC TG-CTCTGAAAGGCCATAAAOCTTCATGAGTC TAAA ACTATAGA
CZ293   GTCTATATCCAGAACC TG-CTCTGAAAGGCCATAAAOCTTCATGAGTC TAAA ACTATAGA
*****

WT      GAATGGCAACTGGGOC TG-TTGC TTCTGTG-ATGACTAOCACCAGGTAATTOCCAGAG T
CZ293   GAATGGCAACTGGGOC TG-TTGC TTCTGTG-ATGACTAOCACCAGGTAATTOCCAGAG T
*****

WT      CAAGAAAGGATCAGCCATOC AAAGCTCAGCAAGCCTCAAAG ATATTACAGGGGAGGCTAT
CZ293   CAAGAAAGGATCAGCCATOC AAAGCTCAGCAAGCCTCAAAG ATATTACAGGGGAGGCTAT
*****

WT      CAACCTGGCCAGTGGGAAAA TCAAGGAGT TTTCA TTTGAGAAGATCAAGTACTOC TCCAG
CZ293   CAACCTGGCCAGTGGGAAAA TCAAGGAGT TTTCA TTTGAGAAGATCAAGTACTOC TCCAG
*****

WT      CC
CZ293   CC
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Reference:

Yang J, Li Z, Gan X, Zhai G, Gao J, Xiong C, Qiu X, Wang X, Yin Z, Zheng F. Deletion of Pr130 Interrupts Cardiac Development in Zebrafish. *Int J Mol Sci.* 2016 Nov 11;17(11). pii: E1746.