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sox9b$^{fh313/+}$ (CZRC catalog ID: CZ122)

Nature of the mutation

The *fh313* allele contains a single A-to-T point mutation that changes Lys into a premature stop codon at amino acid 68, resulting in truncation of the **sox9b** protein.

Genotyping assay

Primers:

Fh313_forward: 5' CGGGCTGAAGATGAGTGTGT 3'

Fh313_reverse: 5' GAGTTATTGGTGCTGCTGATGTT 3'

PCR program:

95℃ 5min

95℃ 30 sec
58℃ 30 sec
72℃ 30 sec
} 30 Cycles

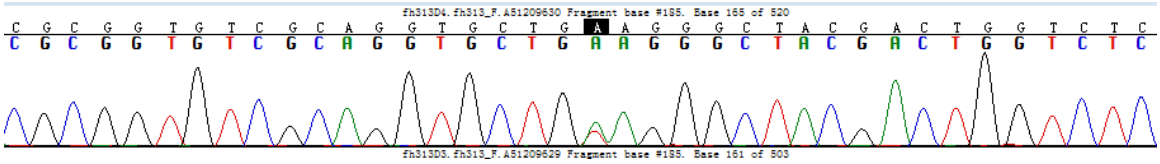
72℃ 8min

4℃ hold

Product size: 536 bp

The sequencing results of the parents:

CZ122(+/-):ATCCGGGACGCGGTGTCGCAGGTGCTG**[A/T]**AGGGCTACGACTGGTCTCTG



Reference:

1. Manfroid, I., Ghaye, A., Naye, F., Detry, N., Palm, S., Pan, L., Ma, T.P., Huang, W., Rovira, M., Martial, J.A., Parsons, M.J., Moens, C.B., Voz, M.L., and Peers, B. (2012) Zebrafish sox9b is crucial for hepatopancreatic duct development and pancreatic endocrine cell regeneration. Dev. Biol. 366(2):268-278

2. Delous, M., Yin, C., Shin, D., Ninov, N., Debrito Carten, J., Pan, L., Ma, T.P., Farber, S.A., Moens, C.B., and Stainier, D.Y. (2012) sox9b Is a Key Regulator of Pancreaticobiliary Ductal System Development. PLoS Genet. 8(6):e1002754