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myod1$^{fh261/+}$ (CZRC catalog ID: CZ111)

Nature of the mutation

The *fh261* allele contains a single A-to-T point mutation that changes Arg into a premature stop codon at amino acid 126, resulting in truncation of the myod1 protein.

Genotyping assay

Primers:

fh261_forward: 5' CCCTGATCTCTTACCAGCAA 3'

fh261_reverse: 5' CATCTCTTGAGGGTCTCGAA 3'

PCR program:

95℃ 5min

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

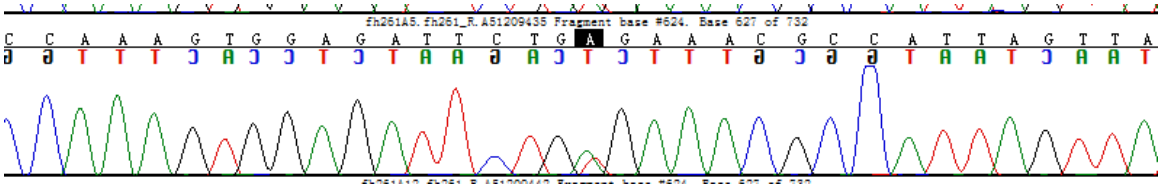
72℃ 8min

4℃ hold

Product size: 755 bp

The sequencing results of the parents:

CZ111 (+/-): GAGGCTGCCCAAAGTGGAGATTCTG**[A/T]**GAAACGCCATTAGTTATATCG



Reference:

Hinits, Y., Williams, V.C., Sweetman, D., Donn, T.M., Ma, T.P., Moens, C.B., and Hughes, S.M. (2011) Defective cranial skeletal development, larval lethality and haploinsufficiency in Myod mutant zebrafish. Dev. Biol. 358(1):102-12