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Mp805a (AB) (CZRC catalog ID: CZ47)

Nature of the mutation

Mp805a is generated by random integration of a fusion GFP-containing construct. Intron 1 (enhancer) of *micall2a* locus is trapped by an insertion of an enhancer trap construct contains gata2 minimal promoter and EGFP, expresses GFP in heart and blood vessels (Xue, Xiao et al. 2010).

Genotyping assay

1. Genotyping of the *mp805a* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the GFP fluorescence signal is detectable at 30 hpf.

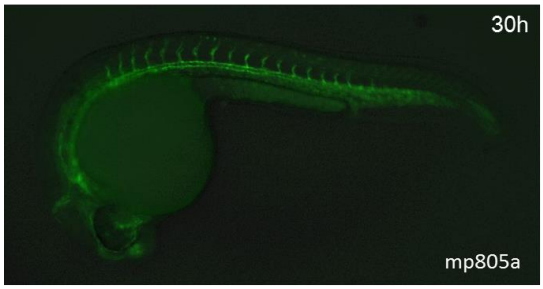

Figure. The *mp805a* line predominantly expresses GFP in heart and blood vessels at 30 hpf.
The figure shows the lateral view of *mp805a* embryos at 30 hpf.

2. Genotyping of the *mp805a* line can also be performed via allele-specific PCR using eGFP-specific primers (Sense primer: GTAAACGGCCACAAGTTCAG, antisense primer CTCGTTGGGGTCTTTGCT, the length of PCR fragment is 576 bp).

Reference

Xue, Y. L., A. Xiao, et al. (2010). "Generation and Characterization of Blood Vessel Specific EGFP Transgenic Zebrafish via To12 Transposon Mediated Enhancer Trap Screen." Progress in Biochemistry and Biophysics **37**(7): 720-727.