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Zf411Tg/+ (AB) (CZRC catalog ID: CZ65)

Nature of the mutation

Zf411Tg is generated by random integration of a RFP-containing construct, expresses RFP in T cell of thymus (Ma, Wang et al. 2012).

Genotyping assay

1. Genotyping of the *zf411Tg* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the RFP fluorescence signal is detectable at 5 dpf.

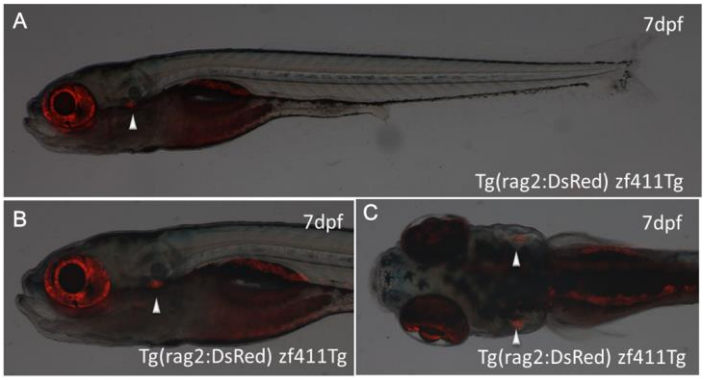

Figure. The *zf411Tg* line expresses RFP in the thymus at 7 dpf.
The figure shows the lateral view (A and B) and dorsal view (C) of *zf411Tg* embryos at 7 dpf.

2. Genotyping of the *zf411Tg* line can also be performed via allele-specific PCR using RFP-specific primers (Sense primer: AGGACGTCATCAAGGAGTTC, antisense primer TACTGTTCCACGATGGTGTAG, the length of PCR fragment is 628 bp).

Reference

Ma, D., L. Wang, S. Wang, Y. Gao, Y. Wei and F. Liu (2012). "Foxn1 maintains thymic epithelial cells to support T-cell development via mcm2 in zebrafish." Proc Natl Acad Sci U S A **109**(51): 21040-21045.