Address: Institute of Hydrobiology, CAS. No. 7, South Donghu Rd., Wuhan, 430072, China.
Tel: +86(0)2768780570 Email: zebrafish@ihb.ac.cn Website: http://www.zfish.cn

La2Tg/+ (AB) (CZRC catalog ID: CZ60)

Nature of the mutation

La2Tg is generated by random integration of a GFP-containing construct, predominantly expresses GFP in thrombocytes. CD41 mRNA transcripts was firstly detected at 42 hpf by RT-PCR, then appeared in circulating hematopoietic cells at 48 hpf. GFP was expressed in the region between dorsal aorta and caudal vein, and cardiac sinus/yolk sac at 48 hpf. By 3 dpf, increasing numbers of GFP+ cells were detected in a similar region and the circulation. By 5 dpf, the majority of GFP+ cells was in the circulation and gathered near the developing mesonephros (the white arrow) (Lin, Traver et al. 2005).

Genotyping assay

1. Genotyping of the *la2Tg* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the GFP fluorescence signal is detectable at 5 dpf.

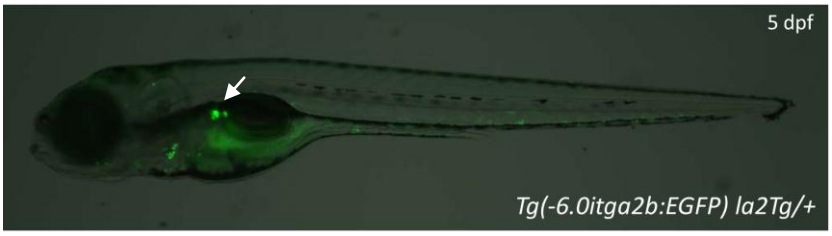

Figure. The *la2Tg* line expresses GFP in the thrombocytes of the circulation at 5 dpf. The white arrow indicates the GFP+ cells gathered near the developing mesonephros. The figure shows the lateral view of *la2Tg* embryos at 5 dpf.

Reference

Lin, H. F., D. Traver, et al. (2005). "Analysis of thrombocyte development in CD41-GFP transgenic zebrafish." Blood **106**(12): 3803-3810.