

***YITg*/+ (AB) (CZRC catalog ID: CZ55)**

Nature of the mutation

YITg is generated by random integration of a GFP-containing construct, predominantly expresses GFP in cranial neural crest derivatives and blood vessels. GFP expression can be detected at low levels as early as 3-somite stage. At 24 hpf, the GFP-positive cells were evident in the trunk vessels (including dorsal aorta and the segmental vessels sprouting from the dorsal aorta), cranial blood vessels and hematopoietic cells. *Fli1*-eGFP is also expressed in derivatives of cranial neural crest, such as the mesenchyme of the aortic arches and the developing cartilage of the jaw at 48 hpf (Lawson and Weinstein 2002).

Genotyping assay

1. Genotyping of the *yITg* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the GFP fluorescence signal is detectable at 48 hpf.

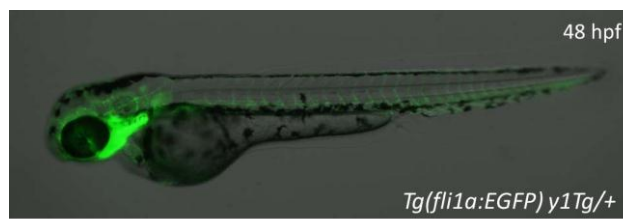


Figure. The *yITg* line expresses GFP in the cranial neural crest derivatives, blood vessels, and myeloid cells at 48 hpf.

The figure shows the lateral view of *yITg* embryos at 48 hpf.

Reference

Lawson, N. D. and B. M. Weinstein (2002). "In vivo imaging of embryonic vascular development using transgenic zebrafish." Developmental Biology **248**(2): 307-318.