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***gz14Tg* /+(AB) (CZRC catalog ID: CZ27)**

Nature of the mutation

The *gz14Tg* allele was generated by crossing oocyte-specifically expressed cre transgenic zebrafish Tg(zp3:Cre) with a loxP transgenic line Tg(krt4:LOXP-EGFP-LOXP-RFP) , the floxed DNA was specifically eliminated from female. The offspring of this line expresses RFP ubiquitously in the whole body at 24 hpf (Liu, Li et al. 2008).

Genotyping assay

1. Genotyping of the *gz14Tg* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the RFP fluorescence signal is detectable at 24 hpf.

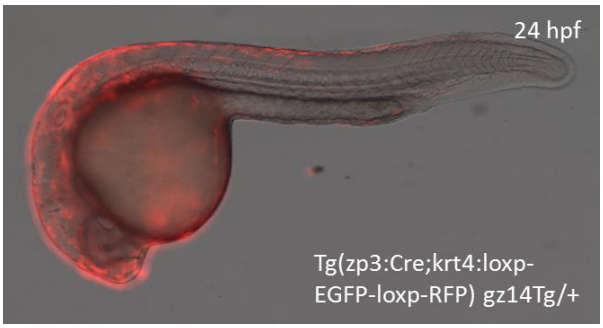

Figure. RFP expression throughout the body at 24 hpf in *gz14Tg* line.
The figure shows the lateral view of *gz14Tg* embryos at 24 hpf.

2. Genotyping of the *gz14Tg* 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

n/aLiu, X. J., Z. Li, et al. (2008). "Generation of Oocyte-Specifically Expressed cre Transgenic Zebrafish for Female Germline Excision of loxP-Flanked Transgene." Developmental Dynamics **237**(10): 2955-2962.