

***S903Tg*/+ (AB) (CZRC catalog ID: CZ69)**

Nature of the mutation

S903Tg is generated by random integration of a RFP-containing construct, expresses RFP in endodermal cells around the midline. At the 6-10 somite stage, *Tg(sox17:dsRED)* embryos showed a normal button-like KV at the terminus of the notochord (Chung and Stainier 2008; Lai, Yao et al. 2012).

Genotyping assay

1. Genotyping of the *s903Tg* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the RFP fluorescence signal is detectable at 2 dpf.

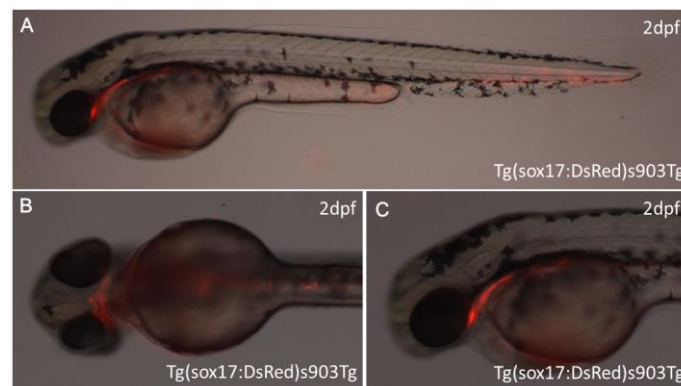


Figure. The *s903Tg* line expresses RFP in endodermal cells around the midline at 2 dpf.

The figure shows the lateral view (A and C) and ventral view (B) of *s903Tg* embryos at 2 dpf.

2. Genotyping of the *s903Tg* line can also be performed via allele-specific PCR using dsRed-Expression-specific primers (Sense primer: TACTGCTCCACGATGGTGTAG, antisense primer: CGAGGACGTCATCAAGGAG, the length of PCR fragment is 630 bp).

Reference

Chung, W. S. and D. Y. Stainier (2008). "Intra-endodermal interactions are required for pancreatic beta-cell induction." *Developmental Biology* **319**(2): 531-531.
 Lai, S. L., W. L. Yao, et al. (2012). "Autotaxin/Lpar3 signaling regulates Kupffer's vesicle formation and left-right asymmetry in zebrafish." *Development* **139**(23): 4439-4448.