



国家水生生物种质资源库国家斑马鱼资源中心  
China Zebrafish Resource Center (CZRC)  
National Aquatic Biological Resource Center (NABRC)

## ***yu9Tg* /+(AB) (CZRC catalog ID: CZ157)**

### **Nature of the transgene**

Gal4 is a modular protein consisting broadly of a DNA-binding domain and an activation domain. GAL4 activate someone gene transcription where a UAS has been introduced to drive corresponding place expression of RFP.

### **Genotyping assay**

1. Genotyping of the *yu9Tg* line can be performed via allele-specific PCR using UAS-RFP-specific primers (Sense primer: AGGACGTCATCAAGGAGTTC, antisense primer TACTGTTCCACGATGGTGTAG, the length of PCR fragment is 628 bp).

2. You can cross-bred *yu9Tg* and any Allele, in which has *promoter:Gal4* activator(such as CZRC:CZ88), to generate a zebrafish line.As identified by fluorescent microscope, the RFP fluorescence signal is detectable.

### **Reference**

Jung, I.H., Choi, J.H., Chung, Y.Y., Lim, G.L., Park, Y.N., Park, S.W. (2015) Predominant Activation of JAK/STAT3 Pathway by Interleukin-6 Is Implicated in Hepatocarcinogenesis. *Neoplasia* (New York, N.Y.). 17:586-97.

**Address:** Institute of Hydrobiology, CAS  
No. 7 Donghu South Road, Wuhan 430072, China  
**Email:** zebrafish@ihb.ac.cn

**Tel:** 86-27-68780570  
**Web:** www.zfish.cn



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