



## ***rw0144Tg/+ (AB) (CZRC catalog ID: CZ163)***

### **Nature of the transgene**

The *rw0144Tg* allele is a transgenic zebrafish line *Tg(UAS:Eco.NfsB-mCherry)* with fusion gene *nfsB* with mCherry fluorescent protein driven by the UAS promoter.

### **Genotyping assay**

1. Genotyping of the *rw0144Tg* line can be performed via allele-specific PCR using UAS-mcherry-specific primers (Sense primer: GATCCCATCGCGTCTCAG, antisense primer GCTGCACGGGCTTCTTGG, the length of PCR fragment is 1.2kb). And be performed via allele-specific PCR using *nfsB*-specific primers (Sense primer: GTGTTCAACGAGCGTAAAAT, antisense primer CGACGTTGAGATAAACCTGT, the length of PCR fragment is 238bp)
2. You can cross-bred *rw0144Tg* 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**

Agetsuma, M., Aizawa, H., Aoki, T., Nakayama, R., Takahoko, M., Goto, M., Sassa, T., Amo, R., Shiraki, T., Kawakami, K., Hosoya, T., Higashijima, S.I., and Okamoto, H. (2010) The habenula is crucial for experience-dependent modification of fear responses in zebrafish. *Nature Neuroscience*. 13(11):1354-1356

