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***Ihb7Tg* /+(AB)**

Nature of the mutation

The *ihb7Tg* allele was generated by random integration of a GFP-containing construct, expresses GFP ubiquitously in the whole body. This transgenic activator line can express Cre recombinase in PGCs, leading to transcriptional modifications of certain genes when cross with kop: loxp-transgenic effector lines (Xiong, Wei et al. 2013).

Genotyping assay

1. Genotyping of the *ihb7Tg* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the GFP fluorescence signal is detectable at 24 hpf.

Figure. Strong GFP expression throughout the body at 24 hpf in *ihb7Tg* line.
The figure shows the lateral view of *ihb7Tg* embryos at 24hpf.

2. Genotyping of the *ihb7Tg* line can also be performed via allele-specific PCR using eGFP-specific primers (Sense primer: GTAAACGGCCACAAGTTCAG, antisense primer CTCGTTGGGGTCTTTGCT, the length of PCR fragment is 576 bp).

Reference

Xiong, F., Z. Q. Wei, et al. (2013). "Targeted Expression in Zebrafish Primordial Germ Cells by Cre/loxP and Gal4/UAS Systems." Marine Biotechnology **15**(5): 526-539.