

ihb179Tg/+ (AB) (CZRC Catalog ID: CZ 326)

Nature of the mutation

The *ihb179Tg* allele is a transgenic zebrafish line *Tg(hsp70l:jundn-mCherry)* with generated by random integration of a fusion mCherry-containing construct with an *hsp70-l* (*hsp70l*) promoter to drive zebrafish *jundn* transgene expression in whole body and eyes. mCherry was fused to the C-terminus of zebrafish *jun*, then the fusion proteins were cloned downstream of a 1.5 kb fragment of the zebrafish *hsp70-l* promoter.

Genotyping assay

There are two methods for *ihb179Tg* Genotyping assay.

- ① Genotyping of the *ihb179Tg* allele is based on the fluorescent microscopy. This line expresses *jundn-mCherry* ubiquitously by heat shock at 24 hpf. Heat shock is performed by transferring fish from 28 water to water preheated to 37 °C with subsequent incubation in an air incubator at 39 °C for 2 hour. The initial RFP expression in whole body and eyes at 60 hpf.
- ② *ihb179Tg* allele genome was collected using a Tissue DNA Kit (Omega Bio-Tek) and was detected by the forward primer 5' -GACAGGACTTTTTCCCGAC-3' and reverse primer 5' -CGGCGATTCTGTTTCTCA - 3' . The forward primer was located at the end of the *hsp70l* promoter, and the reverse primer was located at the end of C-terminus of zebrafish *jun*. A 952bp fragment was amplified using these two primers.

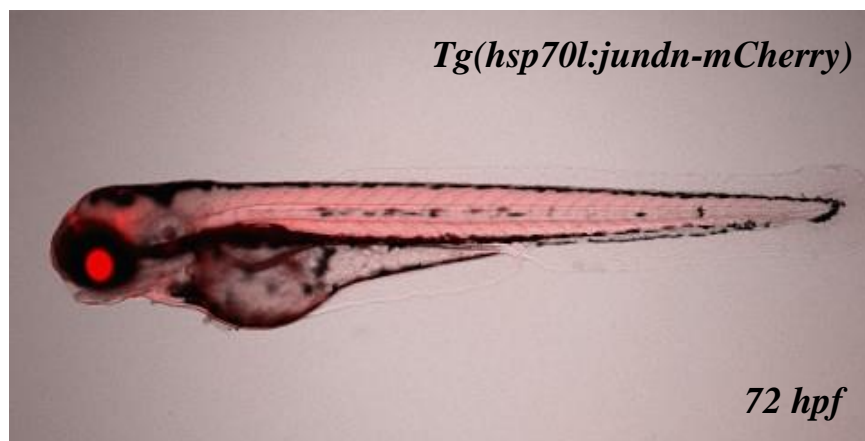


Figure. A transgenic zebrafish line *Tg(hsp70l:jundn-mCherry)*.

The figure show the lateral view of *Tg(hsp70l:jundn-mCherry)* embryos expresses *jundn-mCherry* ubiquitously at 72 hpf after heat shock at 24hpf.

Reference