
***ihb50Tg* /+ (AB) (CZRC Catalog ID: CZ104)**

Nature of the mutation

The *ihb50Tg* allele is a transgenic zebrafish line *Tg(gtsh β :GFP)* with green fluorescent protein driven by the *gtsh β* promoter. (Wang Y et al., PLoS One. 2014 Jun 6; 9(6): e97806)

Genotyping assay

Genotyping of the *ihb50Tg* allele is based on the confocal microscopy. As identified by confocal microscopy, the GFP fluorescence signal is initially detectable from 18 hpf above the dorsal mesentery and persists throughout the subsequent embryogenesis in *Tg(gtsh β :GFP)*. The initial GFP signal localizes above the anterior region of the yolk extension, and extends from the adjacent fifth somite to the eighth somite. As embryos develop, the GFP fluorescence becomes stronger and extends above the yolk sac, manifesting a bilateral tube-like structure. At 48 hpf, it displays a slight curve, which is likely the pronephric neck and tubule.



Figure. Dynamic GFP expression pattern during embryogenesis in *Tg(gtsh β :GFP)* line.

The figure show the lateral view of *Tg(gtsh β :GFP)* embryos at 24hpf. The arrow shows the expressed GFP.