

***tsu086Gt* /+(AB) (CZRC catalog ID: CZ48)**

Nature of the transgene

The *tsu086Gt* allele is a transgenic zebrafish line *Gt(bcl2:EGFP)* with green fluorescent protein expression in otic capsule and gills at 3dpf. The mutants exhibit enlarged otocysts, smaller or eliminated otoliths, malformed semicircular canals, insensitiveness to sound stimulation and imbalanced swimming motion.

Genotyping assay

Genotyping of the *tsu086Gt* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the GFP fluorescence signal is detectable at 72 hpf.

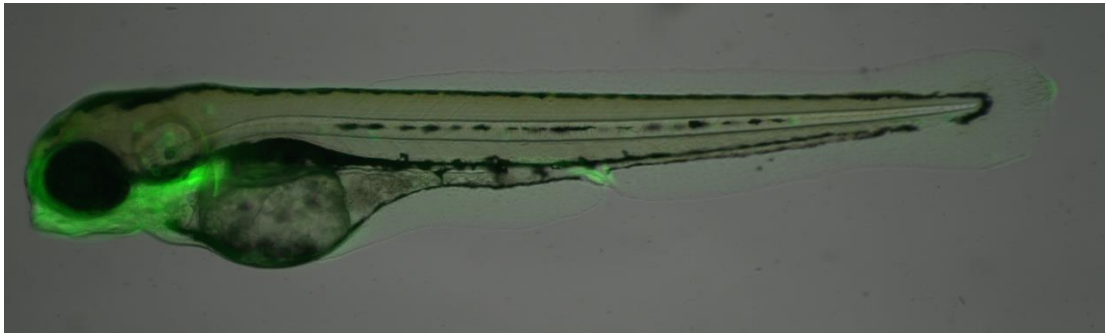


Figure. GFP expression in the lateral line at 4dpf in *tsu086Gt* line. The figure shows the lateral view of *tsu086Gt* embryos at 4dpf.

Reference

Han Y, Mu Y, Li X, Xu P, Tong J, Liu Z, Ma T, Zeng G, Yang S, Du J, Meng A. Grhl2 deficiency impairs otic development and hearing ability in a zebrafish model of the progressive dominant hearing loss DFNA28.2011, Hum. Mol. Genet. 20(16): 3213-26.

