



***hsc5Tg*/+ (AB) (CZRC catalog ID: CZ1619)**

Nature of the transgene

This allele is a transgenic zebrafish line *Tg(actb2:Mmu.Arl13b-GFP)* in which the zebrafish β -actin promoter was used to drive heart, Immunohistochemical analyses of these *hsc5Tg* animals demonstrated striking colocalization of acetylated α -tubulin and Arl13b-GFP in motile cilia lining both the KV and floorplate. In live embryos, Arl13b-GFP localized specifically to primary cilia in all tissues examined, including ectoderm, notochord, somites and neural tube.

Genotyping assay

Genotyping of *hsc5Tg* is based on the fluorescent microscope. As identified by fluorescent microscope, the GFP fluorescence signal is detectable at 72 hpf.

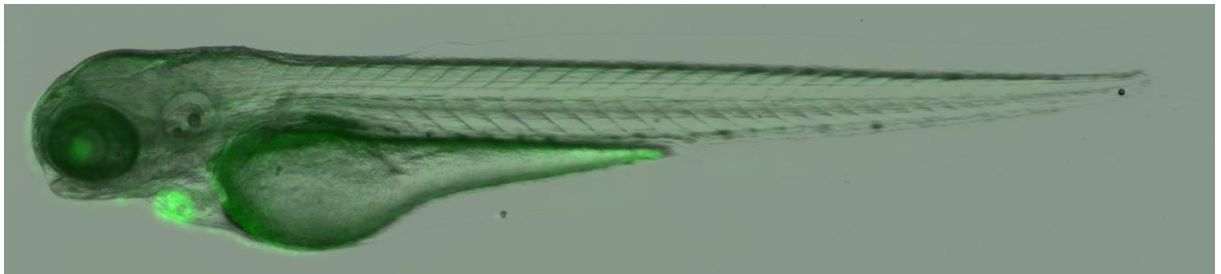


Figure. GFP expression in the lateral line at 72 hpf in this line. The figure shows the lateral view of embryos at 72 hpf.

Reference

Borovina A , Superina S , Voskas D , et al. Vangl2 directs the posterior tilting and asymmetric localization of motile primary cilia[J]. Nature Cell Biology, 2010, 12(4):407-412.

