



***ouc2001Tg* /+(AB) (CZRC catalog ID: CZ1518)**

Nature of the transgene

The *ouc2001Tg* allele is a transgenic zebrafish line *Tg(hsp70l:GFP-Xla.Rho)* in which expresses GFP fused to the 44 C-terminal amino acids of rhodopsin driven by a heat shock promoter. In wild-type embryos, this fusion protein could be easily transported to the outer segment within 4dpf after heat shock. GFP-CT44 fusion protein localizes to the apical region of photoreceptors. The larvae were heat-induced at 42 °C for 2 h at 3.5 dpf, transferred to 28 °C, and collected at 4 dpf for analysis.

Genotyping assay

Genotyping of the *ouc2001Tg* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the GFP fluorescence signal is detectable at 48 hpf.

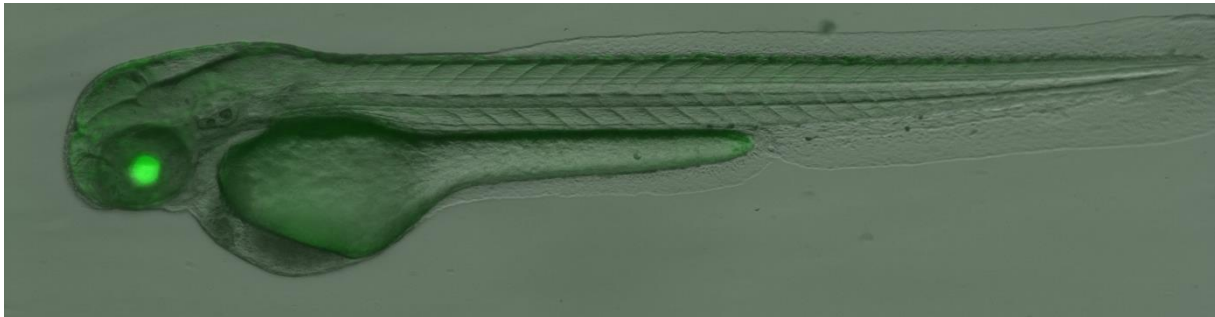


Figure. GFP expression in the lateral line at 72 hpf in *ouc2001Tg* line. The figure shows the lateral view of *ouc2001Tg* embryos at 72 hpf.

Reference

Feng, D., Chen, Z., Yang, K., Miao, S., Xu, B., Kang, Y., Xie, H., Zhao, C. (2017) The cytoplasmic tail of rhodopsin triggers rapid rod degeneration in kinesin-2 mutants. *The Journal of biological chemistry*. 292(42):17375-17386

