cf2Tg/+（AB）(CZRC Catalog ID: CZ78)

Nature of the transgene

The cf2*T*g allele was generated by random integration of *Tg(elavl3:YC2)* construct. The YC2.1 construct was found to contain a single nucleotide deletion in the coding sequence resulting in disruption of the stop codon. The final HuC-cameleon construct was generated by subcloning the HuC promoter, the modified YC2.1 and the SV40 poly(A) signal into pBluescript-SK.

Genotyping assay

1. Genotyping of the *cf2T*g allele is based on the fluorescent microscope. As identified by fluorescent microscope, the YC2 fluorescence signal is detectable in neurons.

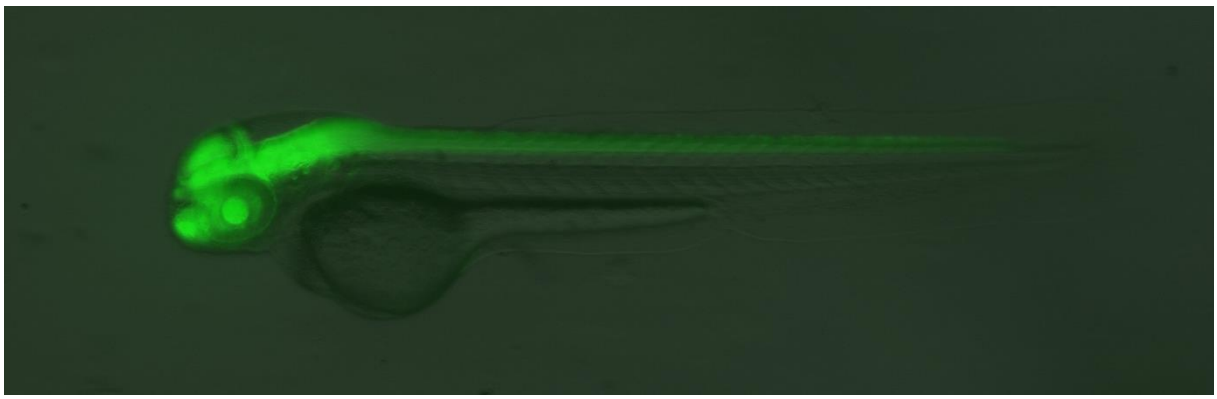

Figure. YC2 expression in neurons at 2dpf in *cf2Tg* embryos after 0.2 mmol/L PTU at 2dpf.

Reference:

Higashijima, S.I., Masino, M.A., Mandel, G., and Fetcho, J.R. (2003) Imaging neuronal activity during zebrafish behavior with a genetically encoded calcium indicator. Journal of neurophysiology. 90(6):3986-3997