

***zju5Tg/+* (AB) (CZRC Catalog ID: CZ 219)**

Nature of the mutation

The *zju5Tg* allele is a transgenic zebrafish line *Tg(d113p53:EGFP)* with green fluorescent protein driven by 4.1 kb upstream of the d113p53 translational start drives EGFP expression

Genotyping assay

Genotyping of the *zju5Tg* allele is based on the fluorescent microscopy. The GFP fluorescence in *Tg(d113p53:EGFP)* is observed in the embryo body at 24 hpf. The GFP expression in the transgenic fish recapitulates the endogenous d113p53 expression, which normally keeps at a very low level but is strongly upregulated by DNA damage signals.

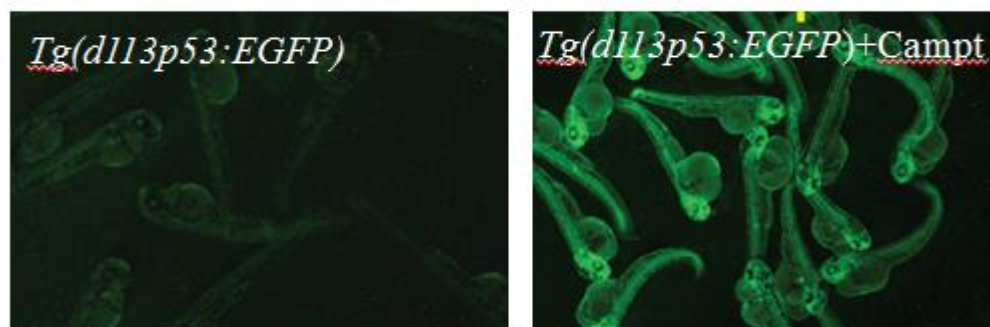


Figure1. Induction of GFP and d113p53 expression in *Tg(d113p53:gfp)* transgenic embryos upon the treatments with DNA-damaging drug 500nM camptothecin (Campt).

Reference

1. Chen J, Peng J. p53 Isoform Delta113p53 in zebrafish. *Zebrafish*. 2009 Dec;6(4):389-95.
2. Gong L, Gong H, Pan X, Chang C, Ou Z, Ye S, Yin L, Yang L, Tao T, Zhang Z, Liu C, Lane DP, Peng J, Chen J. p53 isoform $\Delta 113p53/\Delta 133p53$ promotes DNA double-strand break repair to protect cell from death and senescence in response to DNA damage. *Cell Res*. 2015 Mar;25(3):351-69.