Zf44Tg /+(AB) (CZRC catalog ID: CZ31)

**Nature of the mutation**
The zf44Tg allele was generated by random integration of a GFP-containing construct. This line expresses GFP in pituitary (Liu, Ren et al. 2008). Combined with time-lapse confocal microscopy lineage tracing of pomc (proopiomelanocortin)-expressing cells, this transgenic fish provides a model for studying the morphogenesis of anterior/intermediate lobe of anterior pituitary.

**Genotyping assay**
1. Genotyping of the zf44Tg allele is based on the fluorescent microscope. As identified by fluorescent microscope, the GFP fluorescence signal is detectable at 48 hpf.

![GFP expression in pituitary at 48 hpf in zf44Tg line](image)

The figure shows the ventral view of zf44Tg embryos at 48 hpf.

2. Genotyping of the gz14Tg line can also be performed via allele-specific PCR using GFP-specific primers (Sense primer: TCATATGAAACGGCATGACT, antisense primer TGGTCTGCTAGTTGAACGCT, the length of PCR fragment is 315 bp).

**Reference**