

Wildtype and transgenic lines available at the zebrafish core facility

The following lines are readily available to any user of the zebrafish core facility.

Besides those lines which belong to the zebrafish core facility, there are > 150 transgenic lines available through other zebrafish research groups at KI based on personal agreements.

AB (commonly used wildtype line):

The AB line is derived from two lines, A and B, purchased by Streisinger at different times from a pet shop in Albany, Oregon. The original A and B lines probably originated from a hatchery in Florida. Haploid offspring from individual females of the AB line were screened for healthy, good-looking embryos, and those females were used to make future generations by crossing them to unselected males. The AB line was maintained in this manner by the Oregon labs from the 1970's to the 1990's. This procedure reduced the number of lethal mutations so that this line can be used for parthenogenesis.

TL (commonly used wildtype line):

Homozygous for *leot1* and *lofdt2*. Obtained from a dealer and kept by raising mixed eggs from different egg lays of well-laying females. *leot1* is a recessive mutation causing spotting in adult fish, also known as *tup*. *lofdt2* is a dominant homozygous viable mutation causing long fins. This is not the line used in the Sanger zebrafish sequencing project.

Casper (zebrafish line without pigments):

Published in PMID: 18371439; genotype: *roy*^{-/-}; *nacre*^{-/-}

Tg(*fli1a*:EGFP) (zebrafish line with endothelial cells/blood vessels expressing GFP):

Published in PMID: 12167406

Tg(*cmlc2*:EGFP) (zebrafish line expressing GFP in cardiomyocytes):

Published in PMID: 12950077

Tg(*gata1*:dsRed) (zebrafish line expressing dsRed in erythrocytes):

Published in PMID: 14608381

Tg(*mpeg1*:*gal4*-UAS:NTR-mCherry) (zebrafish line in which macrophages can be depleted):

Depletion of macrophages with 10 mM MTZ; Published in PMID: 32764590

Tg(*mpeg1*:*gal4*-UAS:NTR-mCherry) x Tg(*mpo*:GFP)

See above; additionally, neutrophils expressing GFP)

Tg(*mpo*:GFP) (zebrafish line expressing GFP in neutrophils)

Tg(UAS:GFP;*collagen2*:mCherry) (zebrafish line for screening Gal4 driver lines)

Constitutively expresses mCherry in brain and spinal cord; expresses GFP when crossed with active Gal4