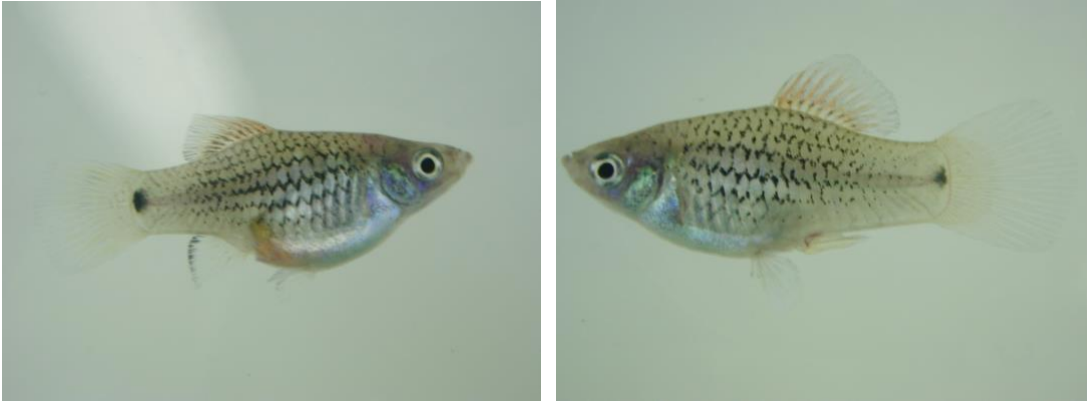


*Xiphophorus maculatus*, Jp30R



Female

Male

Strain code: Jp30R

Phenotypes scored: Dorsal red (Dr), anal red (Ar), striped side (Sr), and one-spot (O).

Introduction:

Ancestors of this stock were collected from the Rio Jamapa, Veracruz, Mexico in 1939 by Dr. James W. Atz. This line was established in the early Stock Center in New York with offspring from a single female from that collection. This was the same collection that originated the Jp163A and Jp163B stocks, this line being originally designated the Jp30 stock. In August of 1999 the last Jp30 female was lost after of 90 generations of inbreeding. So the remaining males were crossed with the Jp163A stock housed at the Center to preserve the well defined chromosomes. The resulting strain designation is Jp30-revisited (Jp30R).

Five phenotypic traits are maintained in this stock: four sex-linked traits, and one autosomal tail spot pattern. The X-chromosome in this stock carries two linked pigment pattern genes: one that produces a red dorsal fin (Dr), and a second that encodes the expression of striped side (Sr). Two additional pattern genes are linked on the Y-chromosome: striped side (Sr) and a gene that produces a red anal fin (Ar). This strain is also homozygous for one-spot (O), a spot displayed on the tail.

Sex determination / sexing:

Sex determination in this stock is XX / XY. Fish are sexed at one to one and a half months of age, and become sexually mature at about four months of age.

Scoring:

Fish are scored for the traits dorsal-red, stripe-sided, anal-red, and one-spot.

Maintenance:

This stock is maintained with reciprocal crosses between the different lines. Generally four to six matings are established every generation to ensure the production of two to three new pedigrees for each generation.

Stock source:

Established 5/19/03 at the XGSC..