

*Xiphophorus xiphidium*, Rio Purificacion



Female (fl, ct)



Male (fl, +)

Strain code: RP

Phenotypes scored: Tail spot pattern: cut-crescent (ct), crescent (C), wild type (+); spotting pattern: flecked (fl) and wild type (+).

Introduction:

This stock arrived at the *Xiphophorus* Genetic Stock Center 11/9/98, from M. Scharf's lab in Würzburg, Germany. This stock was collected in the Rio Purificacion, near Barretal, Tamaulipas, Mexico. A pigment pattern, flecked (fl-1), described by Kallman and Atz (1966) is segregating in this stock. The inheritance of the flecked pattern is reported to be to be X-linked in the stock. Three alleles for tail spot patterns are segregating in the stock; crescent (C), wild type (+) and cut crescent (ct).

Sexing:

Fish of this stock are sexed at 1.5 to 2 months of age. These fish seem to mature earlier than the other stocks of *X. xiphidium*. The results of the sex designation should be confirmed after two weeks.

Scoring:

Fish are scored for the presence or absence of the flecked spotting pattern, and the three possible tail spot alleles C, ct and wild-type (+).

Maintenance:

Six matings are set up as reciprocal crosses each generation for stock maintenance. Three of these matings are established to ensure production of flecked and wild type fish with crescent in a heterozygous state. To ensure heterozygosity of the tail pattern, one parent in a cross should be C and the other +. Another three matings are set up to produce flecked and wild-type animals as well; however, these other three matings are also designed to maintain cut-crescent in a heterozygous state by mating a ct fish to a + fish.

Stock source:

Prof. Manfred Scharl, Germany, received 11/9/98.