

*Xiphophorus pygmaeus*



Female



Yellow Male



Tail Yellow Male



Wild-type Male

Strain code: pygIII

Phenotypes scored: In males: yellow (yel), tail-yellow (Ty) and wild-type (+); In females: wild-type (+).

Introduction:

The *Xiphophorus pygmaeus* pygIII stock was collected in the town of Huichihuyan, Mexico at 21° 28' 48.1" N 98° 58' 0" W by Dr. Michael J. Ryan of the University of Texas. This collection arrived at the Stock Center on May 18, 2002. The stock contains three male phenotypes; yellow (yel), tail-yellow (Ty) and wild-type (+). Females only express the + phenotype.

Sexing:

Fish are sexed at about 2 months of age. They mature at about 6 months of age.

Scoring:

Scoring the fish is done with the unaided eye. The fish can be caught & placed in an observation dish to discern if it is +, yel or Ty. Females as well as males should be scored for these color variations. All mature fish should be measured upon discarding or fixing in order to collect data on maturation rates.

Maintenance:

Males inherit color patterns from their fathers. Because of this 2 matings are set up to maintain each of the three male phenotypes. This results in 6 matings total for each generation. All females are wild-type and can be used in reciprocal crosses for the generation. A typical mating plan will look as follows;

2 + matings:

++ female                      x              ++ male

2 yel matings:

++ female                      x              yel male

2 Ty matings:

++ female                      x              Ty male

Stock source:

Dr. Michael J. Ryan, University of Texas, 5/18/02.