

*Xiphophorus variatus*, Lineatus



Female



Male

Stock code: Huich

Phenotypes scored: Pigment pattern: Lineatus (Li) & wild type (+)

Introduction:

Progenitors of this strain of *X. variatus* were collected from the Rio Huichihuayan, San Luis Potosi, Mexico. The Stock Center obtained these fish in 1996 from M. Scharl, who had maintained a stock in Germany. This stock has an X-linked lineatus pigment pattern gene, which is expressed as horizontal stripes on the flank. There is also a vertical barring pattern expressed in some dominant and aged males.

Sex determination / sexing:

Sex determination is XX / XY. Fish are sexed at 1.5 to 2 months of age and mature at about 5 months of age.

Scoring:

The phenotypes scored are the lineatus pattern (Li) or wild type (+). These traits must be scored under the dissecting microscope, particularly in younger fish and females.

Maintenance:

This stock is propagated by inter-pedigree crosses. The goal of the design of the matings is to maintain the lineatus pattern as well as wild type alleles. 3 or 4 matings are set up crossing a lineatus expressing fish by a wild type fish. Another 2 matings are set up to maintain the wild type allele by crossing a wild type female with a wild type male. Ideally, at

least two to three pedigrees are available at any time, and the successive generation is produced via reciprocal crosses between pedigrees. If a brood is not produced after three months, the male is checked for sperm, and a female is artificially inseminated.

Stock source:

Prof. Manfred Scharl, Wurzburg, Germany, 1996.