

## Yellowtail (*S. rivoliana*)



### **AQUAarray Low Density**

**Number of SNPs:** Up to 1,000

- Genetic Overview (GO) Analysis
- Parentage Assignment
- Marker Assisted Selection
- Identification of Genetic Sex
- Species / Strain / Population Identification
- Traceability Management

**NOTE: LD applications vary from species to species.  
Please contact us for details.**

## AQUAarray High Density

Number of SNPs: Over 10,000

- Genetic Overview (GO) Analysis
- Parentage Assignment
- Marker Assisted Selection
- Identification of Genetic Sex
- Species / Strain / Population Identification
- Traceability Management
- GWAS
- Genomic Selection
- Marker Discovery

### Summary:

Every producer will benefit from using DNA technology in their breeding program. The level of benefit and the type of return on investment will depend on the tool - whether low density (LD), medium-density (MD), or high-density (HD) - that is used. Regardless of the tool, the application of DNA technology adds precision to a selection decision.

**Low Density (LD):** for those just starting in genomics without any knowledge of which populations they have (i.e., species or strains), we recommend a low-density panel with less than 200 SNPs. It provides insights into the genetic architecture of the population and a basis for relatedness and inbreeding. This panel also allows for parentage testing, an important step in the calculation of EBVs (estimated breeding values), which is another way of saying genetic merit.

Our **Yellow Tail LD** panel includes additional markers that are correlated with genetic sex and allow for a simple and non-invasive way of determining sex at an early age, before sexual maturation. A customizable **High Density** tool for optimal genome-wide marker coverage. And a new **Ultra High Density** solution for even deeper genetic insight