File Name: Supplementary Data 1

Description: Supertype designations among identified MHC IIb alleles.

File Name: Supplementary Data 2

Description: **Location and genotype information for each sample.** For each individual, the specific MHC IIb alleles, which comprise the genotype are given, alongside the supertype group that each allele belongs to. The total number of alleles (*Ai*), and supertypes (*STi*) are also given.

File Name: Supplementary Data 3

Description: Comparisons of metrics that define each supertype across populations of guppies.

File Name: Supplementary Data 4

Description: **The frequency of each allele per supertype per population.** The cumulative frequency of a supertypes alleles is also given. Alleles are counter shaded to show those that translate into identical Protein Binding Region amino acids sequences.

File Name: Supplementary Data 5

Description: Pairwise population estimates of Description: Pairwise population estimates of Description:

File Name: Supplementary Data 6

Description: Pairwise population estimates of Dest based MHC allele frequencies.

File Name: Supplementary Data 7

Description: Pairwise population estimates of Description: Pairwise population estimates of Description:

File Name: Supplementary Data 8
Description: Microsatellite genotypes