

Supplementary Figures

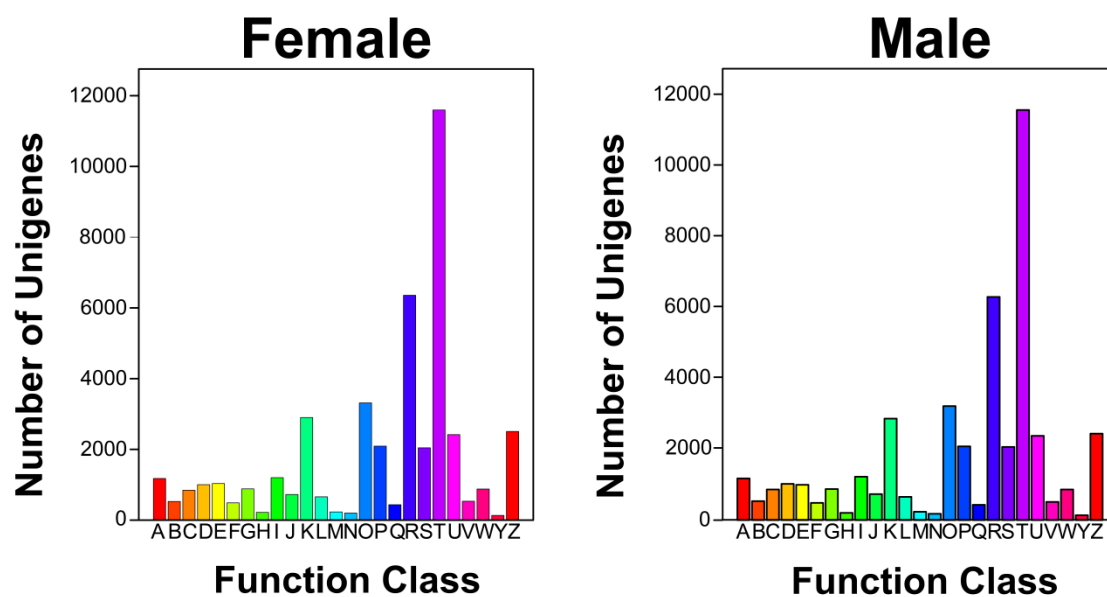


Figure. S1. KOG function classification of predicted genes in *S. argus*. The different color code (A–Z) represented different category as listed at right of the histogram. A: RNA processing and modification. B: Chromatin structure and dynamics. C: Energy production and conversion. D: Cell cycle control, cell division, chromosome partitioning. E: Amino acid transport and metabolism. F: Nucleotide transport and metabolism. G: Carbohydrate transport and metabolism. H: Coenzyme transport and metabolism. I: Lipid transport and metabolism. J: Translation, ribosomal structure and biogenesis. K: Transcription. L: Replication, recombination and repair. M: Cell wall/membrane/envelope biogenesis. N: Cell motility. O: Posttranslational modification, protein turnover, chaperones. P: Inorganic ion transport and metabolism. Q: Secondary metabolites biosynthesis, transport and catabolism. R: General function prediction only. S: Function unknown. T: Signal transduction mechanisms. U: Intracellular trafficking, secretion, and vesicular transport. V: Defense mechanisms. W: Extracellular structures. Y: Nuclear structure. Z: Cytoskeleton.

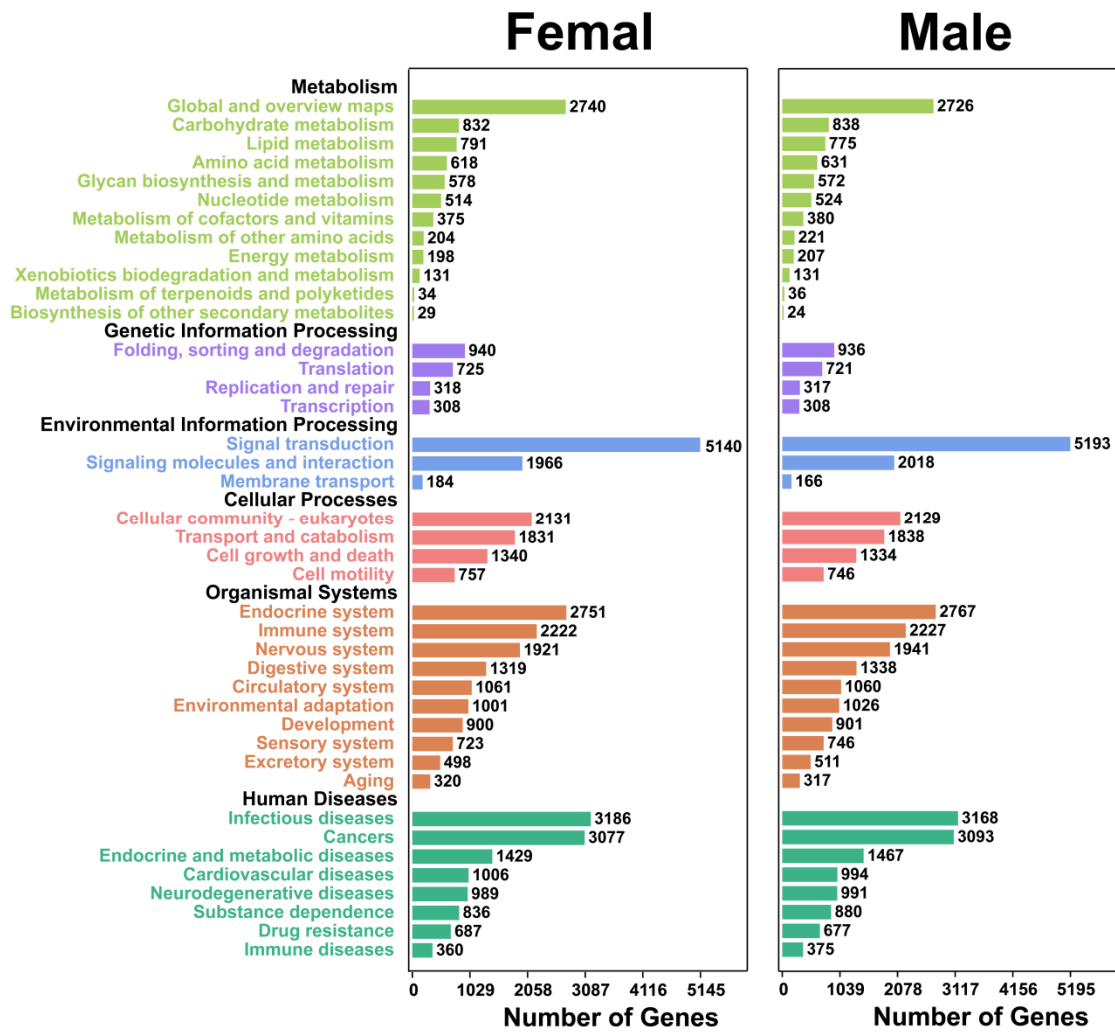


Figure. S2. KEGG pathway annotation of predicted genes in *S. argus*. The different color code represented different category.

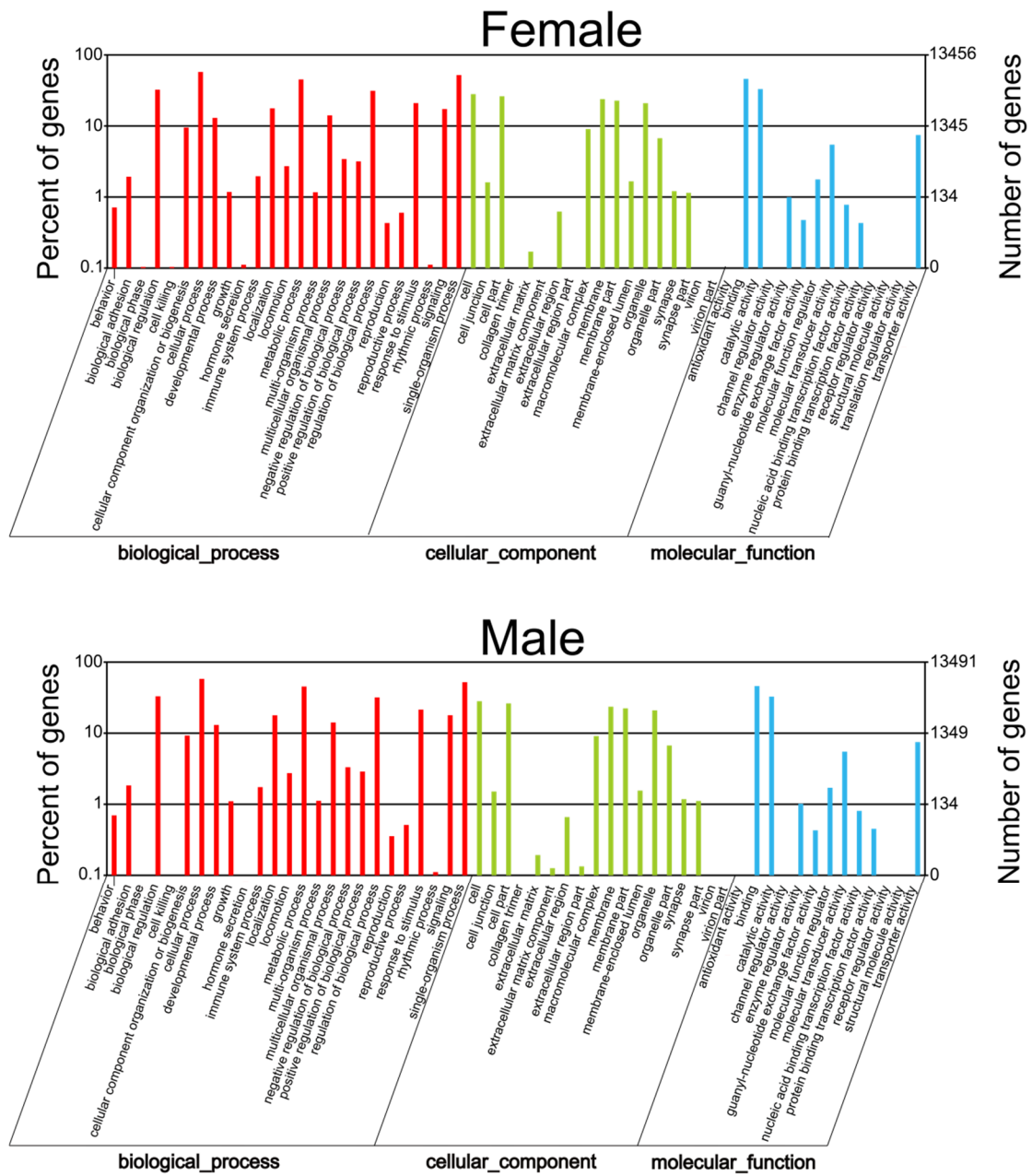


Figure. S3. Gene Ontology classification of predicted genes in *S. argus*. Genes were assigned to three categories: biological process, cellular component and molecular function.

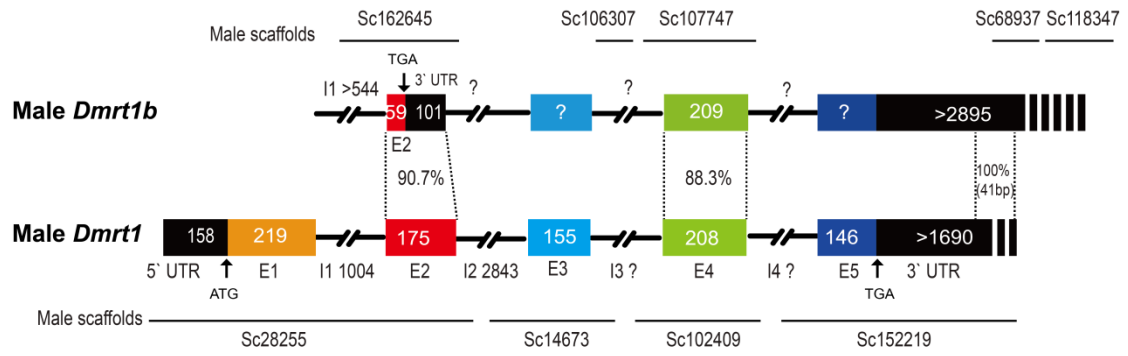


Figure. S4. The *Dmrt1b* gene from male genome. Numbers indicate base pairs (loci) of exon and intron sequences. Percentages indicate the similarity of *Dmrt1* and *Dmrt1b*. Arrows indicate the start and stop codons. Different colored rectangles represent different exons.

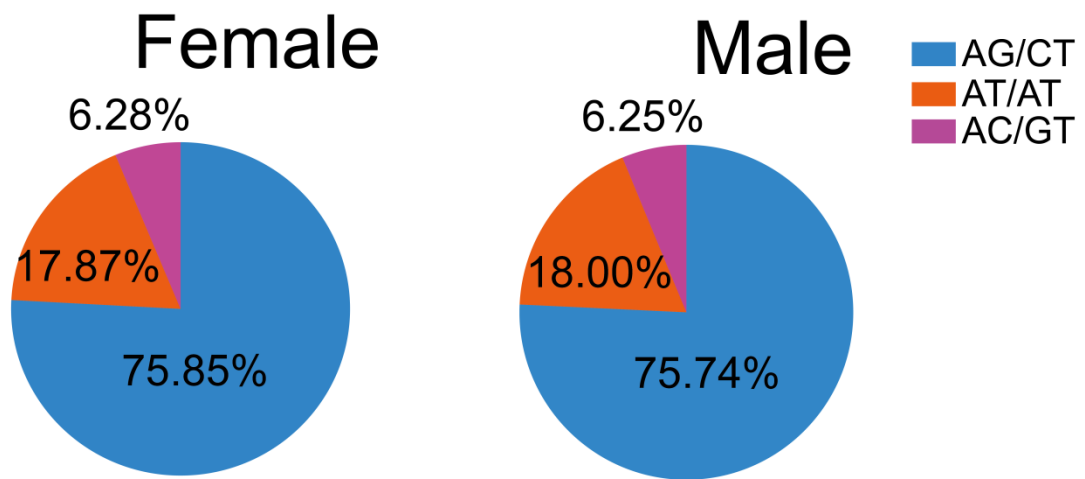


Figure. S5. Percentage of different motifs in di-nucleotide repeats of female and male *S. argus* genome.

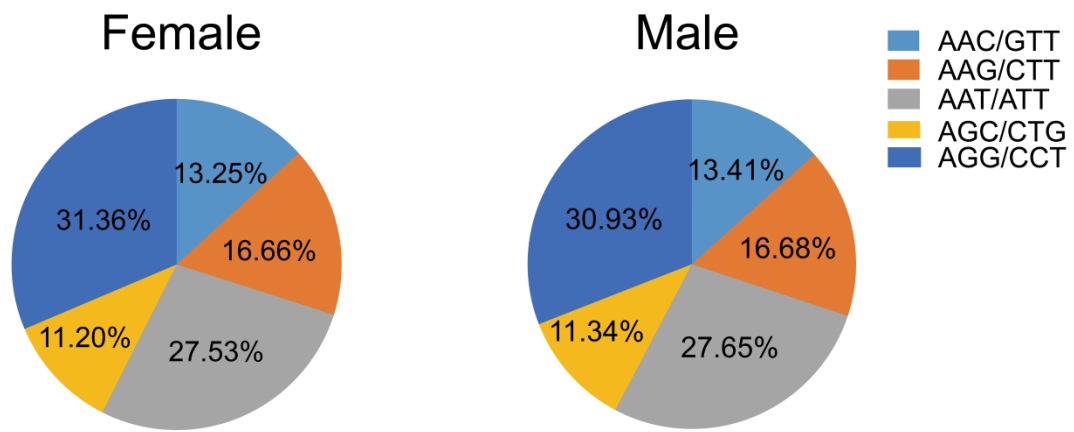


Figure. S6. Percentage of different motifs in trinucleotide repeats of female and male *S. argus* genome.

Supplementary Tables

Table S1. Statistics of top 4 similar species blasted against the NCBI nonredundant nucleotide database.

| Species | Percentage (female/male) |
|------------------------------|---------------------------------|
| <i>Dicentrarchus labrax</i> | 0.91 / 0.91 |
| <i>Scatophagus argus</i> | 0.49/0.19 |
| <i>Haplochromis burtoni</i> | 0.36 / 0.37 |
| <i>Oreochromis niloticus</i> | 0.26 / 0.30 |

Note: Percentage of the similarity more than 90% reads in 5000 reads of female and male *S. argus*.

Table S2. Statistics of KOG function classification of predicted genes in *S. argus*

| KOG code | KOG code description | Gene number (female/male) |
|----------|---|------------------------------|
| A | RNA processing and modification | 1178/1193 |
| B | Chromatin structure and dynamics | 528/543 |
| C | Energy production and conversion | 846/877 |
| D | Cell cycle control, cell division, chromosome partitioning | 1003/1037 |
| E | Amino acid transport and metabolism | 1035/1011 |
| F | Nucleotide transport and metabolism | 489/493 |
| G | Carbohydrate transport and metabolism | 884/889 |
| H | Coenzyme transport and metabolism | 219/208 |
| I | Lipid transport and metabolism | 1201/1242 |
| J | Translation, ribosomal structure and biogenesis | 725/744 |
| K | Transcription | 2901/2904 |
| L | Replication, recombination and repair | 659/665 |
| M | Cell wall/membrane/envelope biogenesis | 232/239 |
| N | Cell motility | 201/181 |
| O | Posttranslational modification, protein turnover, chaperones | 3315/3262 |
| P | Inorganic ion transport and metabolism | 2092/2110 |
| Q | Secondary metabolites biosynthesis, transport and catabolism | 436/438 |
| R | General function prediction only | 6357/6386 |
| S | Function unknown | 2045/2094 |
| T | Signal transduction mechanisms | 11595/11733 |
| U | Intracellular trafficking, secretion, and vesicular transport | 2418/2412 |
| V | Defense mechanisms | 535/521 |
| W | Extracellular structures | 880/877 |
| X | Mobilome: prophages, transposons | 0/0 |
| Y | Nuclear structure | 134/140 |
| Z | Cytoskeleton | 2507/2474 |

Table S3. Assessment of *S. argus* genome assembly and completeness using BUSCO (Benchmarking Universal Single-Copy Orthologs).

| | Genome BUSCO (female / male) | Percentage (female / male) |
|-----------------------------|---|---------------------------------------|
| Complete BUSCOs | 3,055/3,108 | 66.6%/67.8% |
| Complete Single-Copy BUSCOs | 2,990/3,042 | 65.2%/66.4% |
| Complete Duplicated BUSCOs | 65/66 | 1.4%/1.4% |
| Fragmented BUSCOs | 881/838 | 19.2%/18.3% |
| Missing BUSCOs | 648/638 | 14.2%/13.9% |

TTACTTTATGTTCTTGAAAAGCAGTTTCACAAGTTTATTGTCACTATAGGTTTTCTGGT
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>Predicated amino acid sequence of *Dmrt1*

MNKDTRKQVPESTGTLSPSKHQKPSRMPKCSRCRNHGYISPLKGHKHFCNWRDCQCPK
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QYQQMPHDDGLLSSHNMSSQYYMHSYYPAAATYLTQSLVSTPCVPGVFNLEDNNSNKNNN
NNNDNNCSEAMAASFSPSHISIVHDSACRTPLNSEVNVECEASDEMPNFTVSSIIDGDAK.

>Female scaffold83349 (Exon1 and 2 of *Dmrt1b*)

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>Predicated amino acid sequence of *Dmrt1b*

MNKDTQSKQVPESTGTLSPSTGQKHRRIFKCSLCRNHGCIIPVKGHKRFCCKWRDCQCPKC
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> Female scaffold545689 (Contains homologous sequences to the exon 3 and 4 of *Dmrt1*)

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> Female scaffold49157 (Contains homologous sequences to the 3' UTR of *Dmrt1*)

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GTTTATCGTGATAGATCTACTGGCGGATTTTGGCATGTTT

>Male scaffold162645 (Exon 2 of *Dmrt1b*)

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>Male scaffold106307 (Contains homologous sequences to the intron 3 of *Dmrt1*)

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>Male scaffold107747 (Contains homologous sequences to the exon 4 of *Dmrt1*)

>Male scaffold118347 (Contains homologous sequences to the 3' UTR of *Dmrt1*)

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