Table S2 Annotated loci within the 100 kb windows with the highest density of sex-specific SNPs.

Species	Number of sex- specific SNPs#	Position of the window	Annotated loci in window (GenBank or ENSEMBL accession number)
Gambusia affinis	727 ¹ (one window)	Chr1:4,822,5004,922,500 ¹	pgbd3-like (XM_023326051.1) IncRNA (XR_002753294.1) miR1-1 (ENSXMAG00000020423) miRNA (ENSXMAG00000026405)
	1002 ² (two windows)	NHOQ01000110.1:1,135,5001,236,000 ²	ncRNA (XR_534006.2) gata5-like (XM_023341516.1)
Gambusia holbrooki	641 ¹ (three windows)	Chr16:10,229,00010,330,500 ¹	transmembrane emp24 domain-containing protein 1 (part) (XM_005801546.2) dynamin 2a (ENSXMAG0000013164) IncRNA (XR_002754183.1) queuine tRNA-ribosyltransferase catalytic subunit 1(ENSXMAG00000025867) potassium channel subfamily T member 2-like (XM_023349273.1) trim35-12 (ENSXMAG00000013120) IncRNA (XR_002754152.1) GIPC PDZ domain containing family member 1 (XM_005801486.3) dnaJ homolog subfamily B member 1-like (XM_005801485.2) IncRNA (part) (XR_002754184.1)
	758 ² (two windows)	NHOQ01002357.1:1,311,0001,412,500 ²	dnaJ homolog subfamily B member 1-like (part) (XM_008416085.2) GIPC PDZ domain containing family member 1 (XM_007572292.2) ncRNA (XR_002754152.1) E3 ubiquitin-protein ligase TRIM39-like (XM_014469686.2) potassium channel subfamily T member 2-like (XM_023349273.1) queuine tRNA-ribosyltransferase catalytic subunit 1 (XM_008416073.2) dynamin-2 (XM_005801492.2) emp24 domain-containing protein 1 (part) (XM_005801546.2)

Gambusia holbrooki (continued)	505 ¹ (one window)	Chr16:11,798,00011,898,000 ¹	sox9-like (XM_005801437.2
	556 ² (one window)	NHOQ01002125.1:1000101,000 ²	sox9-like (XM_005801437.2) ncRNA (XR_001776856.1) Rex3 retrotransposon, Rex2 retrotransposon, and Rex1 retrotransposon (AY298859.1)
	368 ¹ (one window)	Chr16:13,955,50014,055,500 ¹	target of myb1 like 2 membrane trafficking protein (part) (ENSXMAG00000028211) sterol regulatory element binding transcription factor 1 (XM_005808733.3) retinoic acid induced 1 (part) (ENSXMAG00000014773)
	405 ² (one window on this scaffold)	NHOQ01002164.1:1,675,5001,775,500 ²	retinoic acid induced 1 (XM_014472413.2) sterol regulatory element binding transcription factor 1 (XM_005808733.3) target of myb1 like 2 membrane trafficking protein (part) (XM_023349079.1)

Note: Annotations were derived from the platyfish chromosome assembly (GenBank accession number: GCF_002775205.1) or obtained by aligning the *G. affinis* candidate interval to the NCBI nr/nt databank using BLAST (only hits with E-value 0 are shown; if several hits to identical loci from different species were found, the best hit is given).

^{*}Female-specific SNPs in *G. affinis* and male-specific SNPs in *G. holbrooki*

¹Compared to the platyfish genome assembly

²Compared to the *G. affinis* genome assembly