

Supplementary Table S1. Statistical analysis ($p < 0.05$) for *amh* and *foxl2a* genes.

amh

Shapiro–Wilk normality test	Females B+	Females B-	Males B+	Males B-
W	0.999	0.8987	1	1
<i>p</i> -Value	0.9402	0.3813	>0.9999	>0.9999
Passed normality test (alpha = 0.05)?	Yes	Yes	Yes	Yes
<i>p</i> -Value summary	ns	ns	ns	ns

Test for homoscedasticity				
Rs of Predicted Y vs. abs(residual)	-0,5	0,5	-0,5	0
<i>p</i> -Value (one tailed)	0.5000	0.5000	0.5000	0.6667
Passed ($p > 0.05$)?	Yes	Yes	Yes	Yes

Tukey's multiple comparisons test	Mean Diff,	95.00% CI of diff,	Summary	Adjusted <i>p</i>-Value	Significant?
Females B+ vs. Females B-	-159.3	-1436 to 1117	ns	0.9770	No
Females B+ vs. Males B+	-1961	-3237 to -683.9	**	0.0051	No
Females B+ vs. Male B-	-2197	-3473 to -920.1	**	0.0025	Yes
Females B- vs. Males B+	-1801	-3078 to -524.7	**	0.0084	Yes
Females B- vs. Male B-	-2037	-3314 to -760.9	**	0.0040	Yes
Males B+ vs. Male B-	-236.2	-1513 to 1040	ns	0.9316	No

B+, individual with B chromosome; B-, individual without B chromosome; ns, not significant; **** $p < 0.0001$, extremely significant; *** $p = 0.0001$ to 0.001 , extremely significant; ** $p = 0.001$ to 0.01 , very significant.

foxl2a

Shapiro–Wilk normality test	Females B+	Females B-	Males B+	Males B-
W	0.992	1	1	0.9193
<i>p</i> -Value	0.8289	>0.9999	>0.9999	0.4500
Passed normality test (alpha = 0.05)?	Yes	Yes	Yes	Yes
<i>p</i> -Value summary	ns	ns	ns	Ns

Test for homoscedasticity				
Rs of Predicted Y vs. abs(residual)	-0.5	0.5	-0.5	0.5
<i>p</i> -value (one tailed)	0.5000	0.5000	0.5000	0.5000
Passed ($p > 0.05$)?	Yes	Yes	Yes	Yes

Tukey's multiple comparisons test	Mean Diff	95.00% CI of diff	Summary	Adjusted <i>p</i>-Value	Significant?
Females B+ vs. Females B-	-999.6	-1041 to -958.4	****	<0.0001	Yes
Females B+ vs. Males B+	-15.04	-56.28 to 26.2	ns	0.6618	No
Females B+ vs. Male B-	10.09	-31.15 to 51.33	ns	0.8599	No
Females B- vs. Males B+	984.6	943.3 to 1026	****	<0.0001	Yes
Females B- vs. Male B-	1010	968.5 to 1051	****	<0.0001	Yes
Males B+ vs. Male B-	25.13	-16.11 to 66.37	ns	0.2811	No

B+, individual with B chromosome; B-, individual without B chromosome; ns, not significant; **** $p < 0.0001$, extremely significant; *** $p = 0.0001$ to 0.001 , extremely significant; ** $p = 0.001$ to 0.01 , very significant.