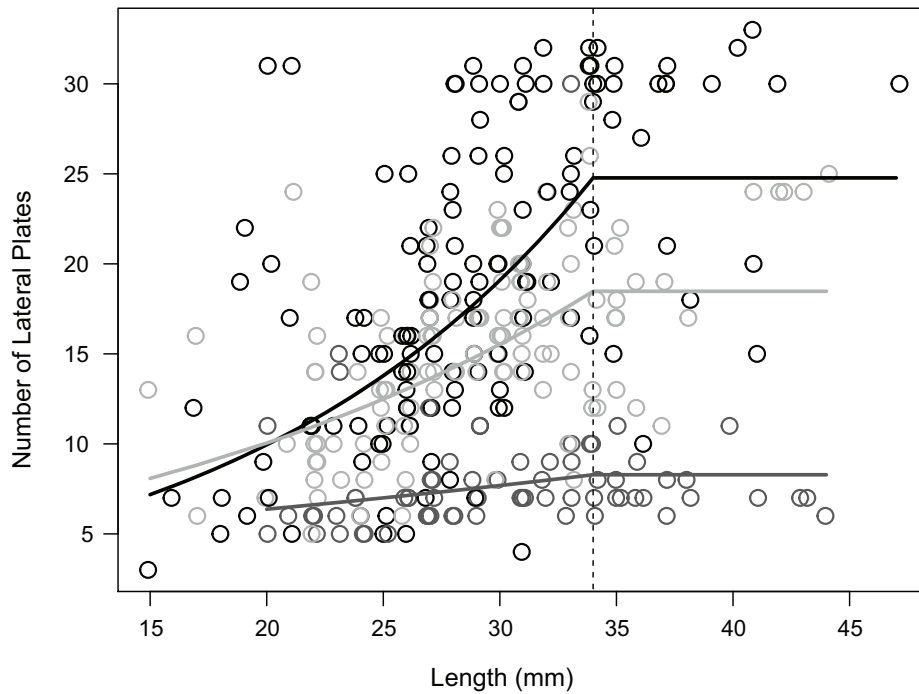


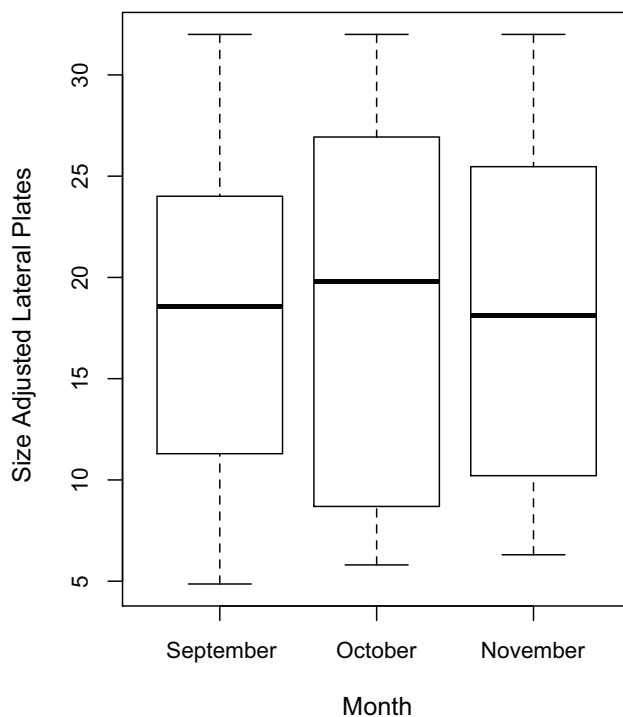
# Appendix from D. J. Rennison et al., “Discriminating Selection on Lateral Plate Phenotype and Its Underlying Gene, *Ectodysplasin*, in Threespine Stickleback”

(Am. Nat., vol. 185, no. 1, p. 000)

## Supporting Information



**Figure A1:** Relationship between length and number of lateral plates. Fish reach their adult number of lateral plates at ~34 mm in length, indicated by the dashed line. Solid lines indicate the fitted breakpoint regression: black = *CC* genotype fish; light gray = *CL* genotype fish; dark gray = *LL* genotype fish.



**Figure A2:** Change in size-corrected lateral plate number for all genotypes across the sampling period. The thick black line indicates the sample median, and the boxes denote the interquartile range.

**Table A1.** Standardized partial selection coefficients for the lateral plate phenotype, *Eda* genotype, and dominance for the September–October 2006 and October–November 2006 periods

	September–October $\hat{\beta}$	October–November $\hat{\beta}$
Lateral plates	.35 (–.08, .78)	–.16 (–.83, .40)
Additive genotype	–.04 (–.43, .38)	–.04 (–.65, .69)
Dominance	–.47 (–.83, –.14)	.26 (–.14, .71)

Note: Values in parentheses are 95% confidence intervals.

**Table A2.** Variance in lateral plate number for each *Eda* genotype by month

	September	October	November
<i>CC</i>	22.1	25.8	24.3
<i>CL</i>	19.7	19.1	18.7
<i>LL</i>	9.5	8.4	8.7

**Table A3.** Variance-covariance matrix for the standardized traits included in the one-genotype-variable Lande-Arnold analysis for the September–October 2006 period

	Lateral plates	Additive genotype
Lateral plates	.70	.17
Genotype	.17	.41

**Table A4.** Variance-covariance matrix for the standardized traits included in the one-genotype-variable Lande-Arnold analysis for the October–November 2006 period

	Lateral plates	Additive genotype
Lateral plates	.63	.23
Genotype	.23	.40

**Table A5.** Variance-covariance matrix for the standardized traits included in the two-genotype-variable Lande-Arnold analysis for the September–October 2006 period

	Lateral plates	Additive genotype	Dominance
Lateral plates	1.04	.68	.06
Additive genotype	.68	.10	−.16
Dominance	.06	−.16	1.01

**Table A6.** Variance-covariance matrix for the standardized traits included in the two-genotype-variable Lande-Arnold analysis for the October–November 2006 period

	Lateral plates	Additive genotype	Dominance
Lateral plates	1.05	.81	.01
Additive genotype	.81	1.07	−.14
Dominance	.01	−.14	.94