



## UvA-DARE (Digital Academic Repository)

### Genetic basis of allochronic differentiation in the fall armyworm

Hänniger, S.; Dumas, P.; Schöfl, G.; Gebauer-Jung, S.; Vogel, H.; Unbehend, M.; Heckel, D.G.; Groot, A.T.

**DOI**

[10.1186/s12862-017-0911-5](https://doi.org/10.1186/s12862-017-0911-5)

**Publication date**

2017

**Document Version**

Other version

**Published in**

BMC Evolutionary Biology

[Link to publication](#)

**Citation for published version (APA):**

Hänniger, S., Dumas, P., Schöfl, G., Gebauer-Jung, S., Vogel, H., Unbehend, M., Heckel, D. G., & Groot, A. T. (2017). Genetic basis of allochronic differentiation in the fall armyworm. *BMC Evolutionary Biology*, 17, Article 68. <https://doi.org/10.1186/s12862-017-0911-5>

**General rights**

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

**Disclaimer/Complaints regulations**

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

*UvA-DARE is a service provided by the library of the University of Amsterdam (<https://dare.uva.nl>)*

## Additional file 8.

PCR conditions used in the mentioned experiments.

Experiment	Candidate Gene	PCR components <sup>1</sup>		PCR program		
QTL 1	Vrille	1 $\mu$ l	DNA	2 min	94°C	
		11.92 $\mu$ l	dH <sub>2</sub> O	35x {	94°C	
		2 $\mu$ l	10x Taq buffer		45 s	T <sub>a</sub> <sup>2</sup>
		2 $\mu$ l	2 mM dNTPs		45 s	72°C
		3 $\mu$ l	10 mM primer mix <sup>2</sup>		60 s	72°C
		0.08 $\mu$ l	Taq polymerase		10 min	72°C
Structure analysis of <i>Vrille</i>	Vrille	1 $\mu$ l	DNA	2 min	94°C	
		11.92 $\mu$ l	dH <sub>2</sub> O	45 s	94°C	
		2 $\mu$ l	10x Taq buffer	35x {	T <sub>a</sub> <sup>2</sup>	
		2 $\mu$ l	2 mM dNTPs		45 s	72°C
		3 $\mu$ l	10 mM primer mix <sup>2</sup>		90 s	72°C
		0.08 $\mu$ l	Taq polymerase		10 min	72°C
	Vrille (touchdown PCR for degenerate primers)	1 $\mu$ l	DNA	3 min	94°C	
		11.92 $\mu$ l	dH <sub>2</sub> O	28x {	94°C	
		2 $\mu$ l	10x Taq buffer		30 s	T <sub>a</sub> <sup>2*</sup>
		2 $\mu$ l	2 mM dNTPs	60 s	(decrease by 0,7)	
		3 $\mu$ l	10 mM primer mix <sup>2</sup>		30 s	72°C
		0.08 $\mu$ l	Taq polymerase	23x {	94°C	
					30 s	Lowest T <sub>a</sub> <sup>2</sup>
				60 s	72°C	
Expression analysis	Vrille eIF1 $\alpha$	1 $\mu$ l	cDNA	10 min	90°C	
		10 $\mu$ l	dH <sub>2</sub> O	40x {	95°C	
		1 $\mu$ l	10 mM primer fw		30 s	58°C
		1 $\mu$ l	10 mM primer rv		60 s	72°C
		12 $\mu$ l	SYBR Mix <sup>3</sup>		60 s	95°C
					30s	58°C
					30s	95°C

<sup>1</sup>Taq polymerase, dNTPs, buffer and primers were purchased from Metabion, Martinsried, Germany

<sup>2</sup>Primers and corresponding annealing temperatures (T<sub>a</sub>) can be found in Table S6

<sup>3</sup> ABSolute Blue QPCR SYBR Green Mix from Thermo Fisher Scientific, Schwerte, Germany