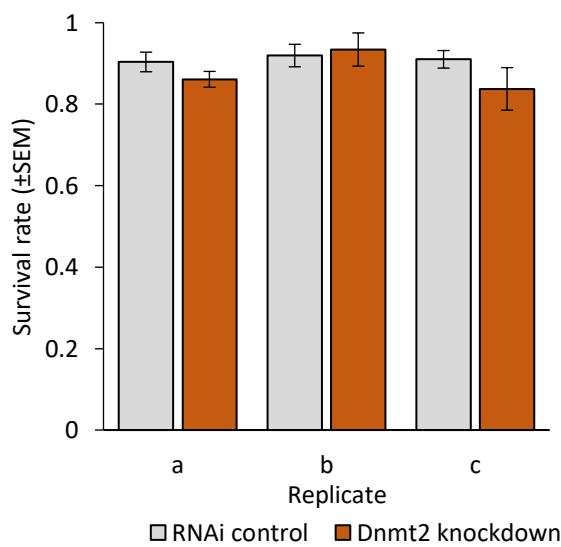


1 Table S 1 Primer sequences and efficiencies for RTqPCR

Gene	NCBI reference	Forward primer	Reverse primer	Efficiency
<i>Dnmt2</i>	XM_008198777	ggcgtaaaagtttgtgggtt	ggggcgacattagaatttg	1.95
<i>hsp90</i>	NM_001313877	cgcagttcattggctatccc	gttttcgccttccctccct	1.97
<i>nimB</i>	XM_008200605	cacaaggaaatgggaccagg	tgcattaggcagccatt	1.94
<i>PGRP</i>	XM_008194325	ccgcgtcaaaggcattcaaa	tgcacatcccccaatcaag	1.96
<i>rp49</i>	XM_964471	ttatggcaaactcaaacgcaac	ggtagcatgtgcctcgttt	1.98
<i>rpl13a</i>	XM_969211	ggccgcaagttctgtcac	ggtaatgggaccacttgtt	2
<i>Gypsy3</i>		gctaaggcagaaacaggaaaccgat	tggtcacgtctgttaaacttagctc	1.97
<i>Gypsy 5</i>		cgactttgttccctacctg	gtgcacatgtgctgaaacttcgt	1.96
<i>Gypsy9</i>		tttcggcatttattgtcgttcg	tttaaagtggtaatgcctgtct	1.91
<i>Gypsy12</i>		tgaagacatcatagcagttaccgta	cataattccctctaacagcacgaa	1.99
<i>R4</i>		accaaattccttattataaatatgagcc	gtgtgtatttggAACAGCAATATCTG	1.97
<i>Copia1</i>		acttttggctactgaaattggta	ctttccatgttcaaattgcacgtt	1.98
<i>Copia2</i>		cgatacggctaaagaaattctcgaca	ctgtatgaaactcctcgatataagca	1.85

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4 Figure S1 Survival of RNAi treatment according to experimental replicate ten days post injection (n= 8-11 pools
5 of 13-20 individuals)

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9 Table S2 Relative expression of TGIP marker genes in parental and offspring generation compared to expression
 10 in RNAi control*priming control group (normalised over two housekeeping genes (n=15)

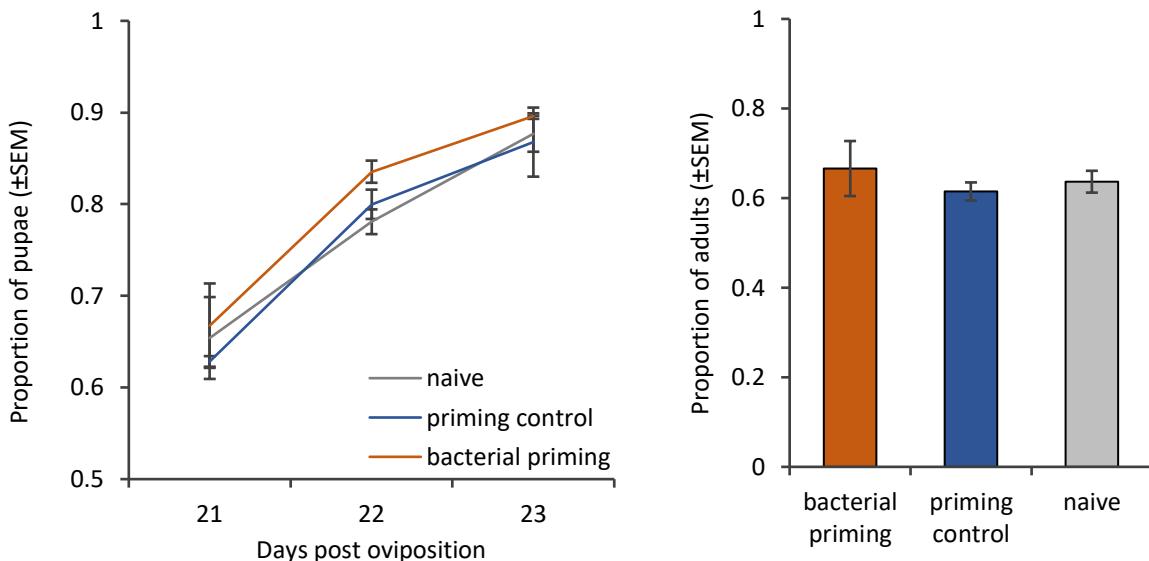
Treatment combination			P_0			F_1		
Gene	RNAi	Priming	rel. expression	95% C.I.	p value	rel. expression	95% C.I.	p value
<i>hsp83</i>	<i>Dnmt2</i>	bacterial	0.819	0.03 - 9.1	0.602	1.02	0.49 - 2.11	0.846
		control	1.039	0.02 - 8.45	0.928	1.025	0.39 - 1.97	0.815
		naive	1.414	0.12 - 9.88	0.272	1.036	0.58 - 2.07	0.711
	control	bacterial	0.885	0.11 - 8.42	0.7	1.059	0.5 - 2.23	0.601
		naive	1.369	0.1 - 9.8	0.319	1.141	0.59 - 2.35	0.194
	<i>nimB</i>	bacterial	0.938	0.001 - 539	0.926	1.143	0.5 - 5.13	0.439
		control	2.165	0.21 - 569	0.197	1.241	0.63 - 5.34	0.16
		naive	1.23	0.01 - 420	0.802	1.098	0.48 - 4.98	0.573
<i>PGRP</i>	control	bacterial	0.76	0.002 - 583	0.712	1.086	0.58 - 4.52	0.578
		naive	1.17	0.01 - 381	0.86	1.097	0.58 - 4.72	0.551
		bacterial	1.172	0.04 - 61.8	0.717	0.865	0.12 - 14	0.627
	<i>Dnmt2</i>	control	1.57	0.05 - 79.5	0.314	1.697	0.13 - 11.5	0.583
		naive	0.816	0.03 - 27.2	0.605	0.979	0.19 - 14.6	0.943
	control	bacterial	1.136	0.03 - 37.8	0.75	0.769	0.14 - 11.7	0.352
		naive	0.713	0.02 - 28.2	0.413	0.834	0.22 - 9.79	0.505

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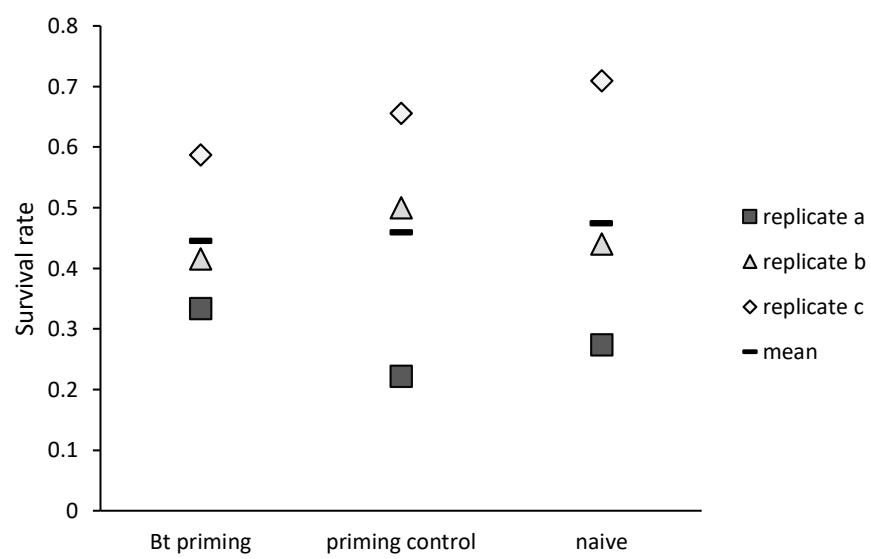
28 Table S3 Relative expression of TEs after RNAi and priming treatment (expression relative to two housekeeping
 29 genes and RNAi control* naïve group, n=6-8)

Gene	RNAi	Priming	Relative expression	95% C.I.	p value
<i>Gypsy3</i>	<i>Dnmt2</i>	bacterial	0.788	0.108 - 4.698	0.655
		naive	1.078	0.363 - 4.200	0.78
	control	bacterial	0.745	0.248 - 3.768	0.35
<i>Gypsy5</i>	<i>Dnmt2</i>	bacterial	1.116	0.135 - 8.356	0.82
		naive	1.189	0.202 - 6.986	0.682
	control	bacterial	0.875	0.151 - 6.101	0.739
<i>Gypsy9</i>	<i>Dnmt2</i>	bacterial	0.823	0.405 - 1.782	0.34
		naive	1.053	0.621 - 1.996	0.733
	control	bacterial	0.885	0.411 - 2.048	0.545
<i>Gypsy12</i>	<i>Dnmt2</i>	bacterial	0.914	0.264 - 4.357	0.797
		naive	1.074	0.415 - 3.917	0.779
	control	bacterial	0.76	0.225 - 3.227	0.368
<i>R4</i>	<i>Dnmt2</i>	bacterial	0.989	0.120 - 2.933	0.987
		naive	1.1	0.408 - 2.202	0.665
	control	bacterial	0.788	0.250 - 2.164	0.339
<i>Copia1</i>	<i>Dnmt2</i>	bacterial	0.977	0.316 - 3.018	0.939
		naive	0.92	0.273 - 3.261	0.786
	control	bacterial	0.725	0.291 - 2.097	0.182
<i>Copia2</i>	<i>Dnmt2</i>	bacterial	0.804	0.363 - 1.952	0.371
		naive	0.96	0.273 - 3.700	0.884
	control	bacterial	0.696	0.226 - 3.045	0.235

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32 Figure S2 Development of offspring after paternal priming with *B. thuringiensis* **a)** pupation rate (\pm SEM for
33 three experimental replicates) **b)** proportion of eclosed adults (\pm SEM for three experimental replicates) on 26
34 *dpo*. Asterisk indicates significant differences.



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36 Figure S3 Survival of F1 generation after bacterial challenge according to paternal priming treatment. Shown are
37 the proportions of adults that were alive four days post injection with a potentially lethal dose of *B. thuriengensis*.
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