

Fig S1: Correlation analysis between JH titer and *AmILP2* transcript abundance level in individual honey bee larvae. There was no significant correlation between these two variables.

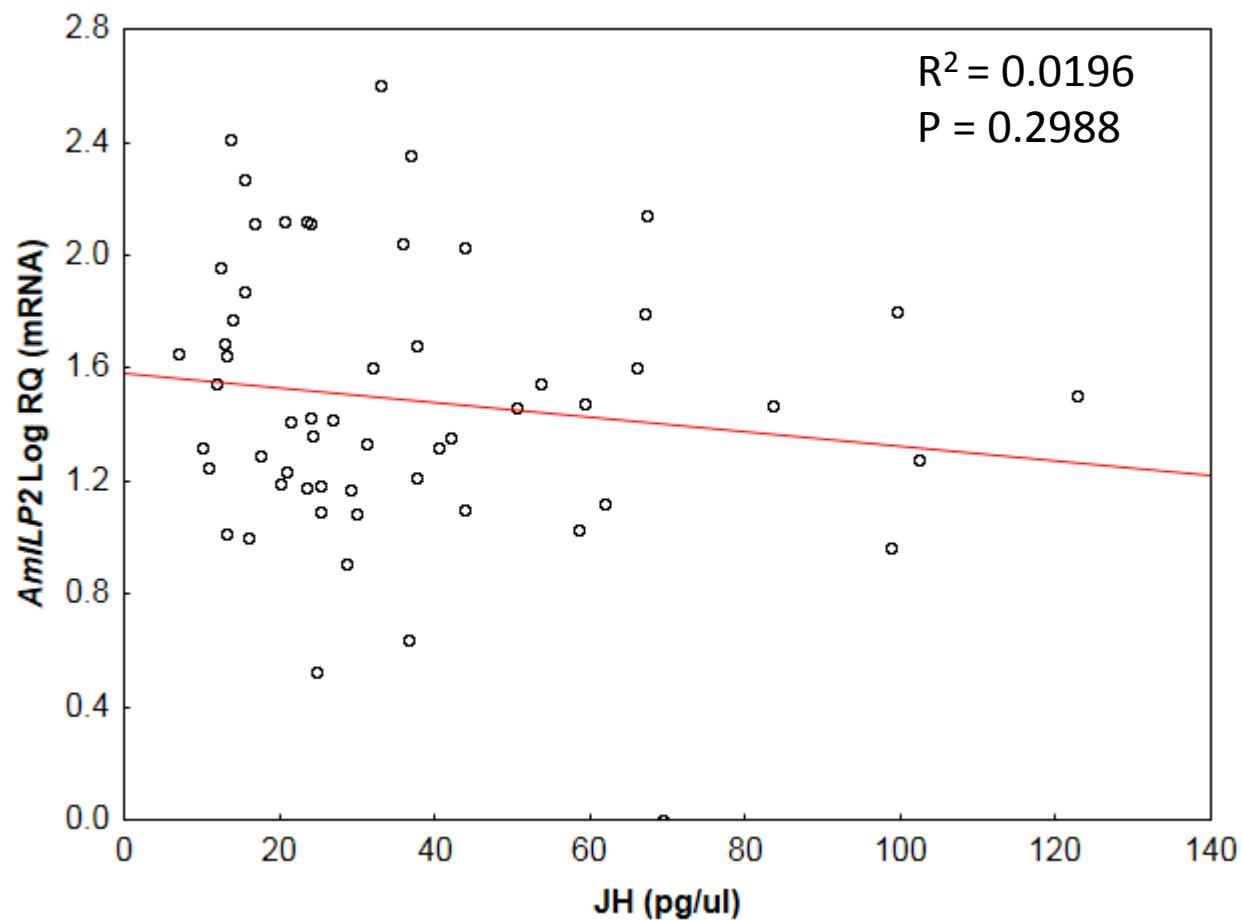


Table S1. Primers for the synthesis of *AmILP1*, *AmILP2* and *gfp* dsRNAs, with T7 promoter sequence shown in bold

Gene name	Primer sequence		
<i>AmILP1_T7</i>	Forward	TAATACGACTCACTATA GGCGACGATAGTCCTGGTCGGTTG	
	Reverse	TAATACGACTCACTATA GGCGACAAGCTGAGCATAGCTGCAC	
<i>AmILP2_T7</i>	Forward	TAATACGACTCACTATA GGCGAGGTGCAACTTGTCAGTGC	
	Reverse	TAATACGACTCACTATA GGCGAGTCGTGCAAGATTAGGCA	
<i>gfp_T7</i>	Forward	TAATACGACTCACTATA GGCGATTCCATGCCAACACTTGT	
	Reverse	TAATACGACTCACTATA GGCGATCAAGAAGGACCATGTGGTC	

Table S2. Primers of *AmILP1*, *AmILP2* and *Amrp49* for RT-qPCR analysis

Gene name	Gene ID	Primer sequence	
<i>AmILP1</i>	GB17332*	Forward	CGATAGTCCTGGTCGGTTG
		Reverse	CAAGCTGAGCATAGCTGCAC
<i>AmILP2</i>	GB10174*	Forward	TTCCAGAAATGGAGATGGATG
		Reverse	TAGGAGCGCAACTCCTCTGT
<i>Amrp49</i>	AF441189	Forward	CGTCATATGTTGCCAACTGGT
		Reverse	TTGAGCACGTTCAACAAATGG

*Gene ID from Official Gene Set 2 (The Honey Bee Genome Sequencing Consortium, 2006).

GenBank accession number.

Table S3. Results of the factorial ANOVA on the morphological characters

Factorial ANOVA	Main effect of <i>AmILP1</i> dsRNA	Main effect of <i>AmILP2</i> dsRNA	Interaction between <i>AmILP1</i> dsRNA and <i>AmILP2</i> dsRNA
Mandible	F = 0.32, P = 0.858	F = 0.463, P = 0.499	F = 0.210, P = 0.648
Corbicula	F = 1.382, P = 0.244	F = 0.976, P = 0.327	F = 2.631, P = 0.109
Stinger	F = 0.126, P = 0.724	F = 1.989, P = 0.164	F = 0.065, P = 0.800
Spermatheca	F = 0.359, P = 0.551	F = 3.798, P = 0.055	F = 0.539, P = 0.465
Ovary	F = 1.186, P = 0.280	F = 5.206, P = 0.026	F = 0.064, P = 0.801

Table S4. Eigenvalue of correlation matrix

Value number	Eigenvalue	% Total variance
Factor 1	3.6623	73.2451
Factor 2	0.4807	9.61437
Factor 3	0.3707	7.4134
Factor 4	0.3171	6.3418
Factor 5	0.1693	3.3860

Table S5. Variable contribution

Variable	Factor1	Factor 2	Factor 3	Factor 4	Factor5
Mandible	0.1909	0.2203	0.2920	0.2471	0.0496
Corbicula	0.1695	0.6543	0.1730	0.0008	0.0023

Spermatheca	0.2149	0.0001	0.2655	0.1788	0.3407
Stinger	0.2023	0.1224	0.0217	0.5531	0.1005
Ovary	0.2224	0.0029	0.2477	0.0202	0.5068