

1 **Bioluminescence of firefly pupa: A luciferase isotype involves in the**
2 **dim glow of pupae and eggs in the Japanese firefly, *Luciola lateralis***
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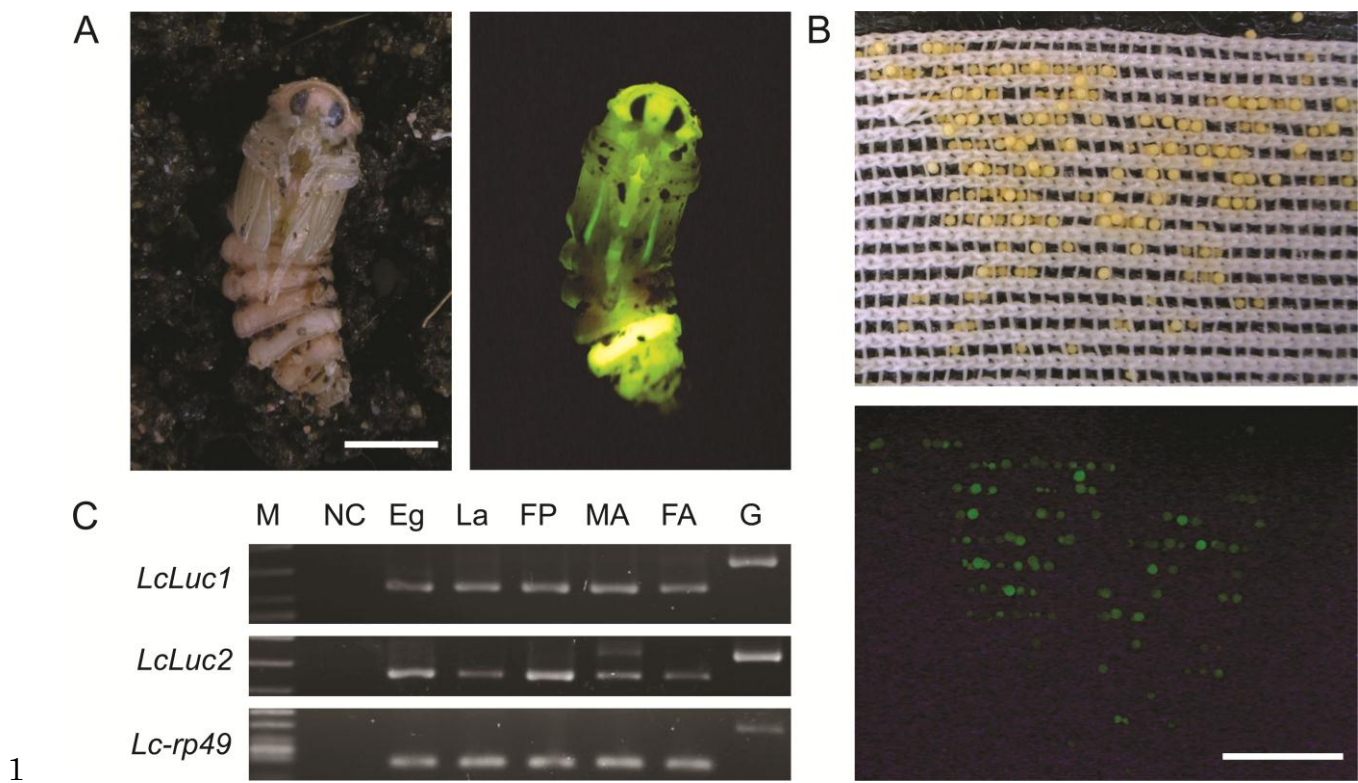


Fig. S1. *In vivo* luminescence of the female *L. cruciata* pupa (A) and eggs (B). Semi-quantitative RT-PCR for *LcLuc1* and *LcLuc2* (C). Bars in panels A and B, 5 mm. Eg, Eggs; La, larva; FP, female pupa; MA, male adult; FA, female adult; G, genome; *Lc-RP49*, internal control.

1 **Table S1** Primer list used for PCR

Primer	Nucleotide sequence	Note
LH1	5'-GGW WCH ACY GGN YTN CCN AA-3'	Degenerate PCR
LH2	5'-ACY GGN YTN CCN AAR GGN GT-3'	Degenerate PCR
LH3	5'-ACY TGR TAN CCY TTR TAY TT-3'	Degenerate PCR
LH4	5'-TGR TAN CCY TTR TAY TTD AT-3'	Degenerate PCR
REAT-LiLuc1f-2	5'-CAG ACG TGG AGA AGT TTG TGT A-3'	Real time PCR for <i>LlLuc1</i>
REAT-LiLuc1r-2	5'-CCA ATA TCT CCT GTG TGC AA-3'	Real time PCR for <i>LlLuc1</i>
REAT-LiLuc2f-2	5'-TAC TGG TAT ACC GGA TGA ACA C-3'	Real time PCR for <i>LlLuc2</i>
REAT-LiLuc2r-2	5'-GAA GAA GAT ACC TGG CTT GAG A-3'	Real time PCR for <i>LlLuc2</i>
LIRP49f	5'-CTG ATC GTT ACT GCA AAC TAA AGA G-3'	Real time PCR for <i>Ll-RP49</i>
REAT-RP-r1	5'-CCT TAA GAT TAT GTA CAA GAA CCT TC-3'	Real time PCR for <i>Ll-RP49</i>
LcLuc1-MY-f	5'-AGC CGG ACT GTT TAT AGG TGT AGG-3'	RT-PCR for <i>LcLuc1</i>
LcLuc1-MY-r2	5'-CGG TGC CTG GTG AAA CTT GGT TAC-3'	RT-PCR for <i>LcLuc1</i>
LcLuc2-MY-f1	5'-GAA CAT TTT ATA CGG ACC ACC ACC G-3'	RT-PCR for <i>LcLuc2</i>
LcLuc2-MY-r	5'-GAG GCT CTG TCG TCT TTA CTA TCG-3'	RT-PCR for <i>LcLuc2</i>
LcRP1	5'-ATG TCG ATT AGA CCA GTT TTT AGG C-3'	RT-PCR for <i>Lc-RP49</i>
RP49rLc	5'-CGA TTT TGC ATC ATT AAC ACC TGC A-3'	RT-PCR for <i>Lc-RP49</i>

2 D, A+G+T; H, A+C+T; N, A+C+G+T; R, A+G; W, A+T; Y, C+T.

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