

**Table S1.** Sample sizes of individual male *Gryllus bimaculatus* adult crickets used for each tissue and treatment of the experiment. Each column represents a different gene.

Tissue	Treatment	<i>Rpl18a</i>	<i>actin</i>	<i>opLW</i>	<i>cry2</i>	<i>per</i>	<i>c-fosB</i>	<i>cry1</i>
Brain	0lx	9	9	8	9	8	9	8
	2lx	8	8	8	8	8	8	8
	5lx	6	6	6	6	6	6	6
	40lx	5	5	5	5	3	5	3
Optic lobe	0lx	4	4	4	3	3	4	2
	2lx	6	6	6	6	6	6	6
	5lx	6	6	6	6	6	6	6
	40lx	6	6	6	5	6	6	6
Malpighian tubules	0lx	14	14	13	14	12	13	12
	2lx	9	9	8	9	9	9	9
	5lx	12	12	10	11	11	11	11
	40lx	12	12	12	12	11	12	12
Haemolymph	0lx	5	5	4	5	4	4	3
	2lx	5	5	5	5	4	5	4
	5lx	5	5	4	4	4	4	4
	40lx	7	7	5	6	6	6	6