Additional file 6

Homologous chromosomes of *S. frugiperda* and *B. mori*.

Homology is indicated by framed numbers at the intersection of *Bm* and Sf chromosomes.
Numbers at intersections correspond to numbers of individual *Sf* contigs that produced significant BLAST hits against the *Bm* chromosome. BLAST hits originating from both BCs were given preference. When no *Bm* chromosome was hit by contigs from both BCs, the highest number of individual hits was given preference. Orange field = BLAST hits produced by contigs originating from BC_A. Blue field = BLAST hits produced by contigs originating from BC_B. Green fields = BLAST hits produced by contigs originating from BC_A+B. Clock genes mapping to the *Bm* chromosomes are indicated in the second column. R^2 and P-values of the *Sf* QTC are given in the two right columns.

Bm chr.	clock genes mapping to Bm chromosomes	Sf chr. A	Sf chr. B	1	2	3	4	5	6	7	8	9	10	11*	12	13	14	15	16	17	18	19	20	21	22	23*	24*	25	26	27	28	R^2 BC_A+BC_B	P BC_A+BC_B
1	clk, cyc, per, pdp1	X	X																														
2		28	29		4					1									1														0.077	0.014
3	lark, jet	1	23			11		4	1			3					1	3	1		1		2		2	3			4				
4	tim	31	15				15																		1		4				1		
5	CK2α	9	9						17		1		1						1						1				1	1			
6		30	10						11	2																							0.082	0.01
7		19	25							8																							
8		15	1							2	6				4			1				1		1			2						
9		16	3									6											3		1	0,5			0,5				
10		14	16								1		1	13			1					1	1				1						
11*		21	22											7																			
12		20	21			1	1		2			2			14			1		2		1			1								0.065	0.023
13		24	24							1					1	1																	
14		3	18				1											3			2					1	1	1					
15	cry2, CK2β	23	7																17		1							1			1		
16		4	2																6	1					1								
17	cry1, dbt	17	20	2			3		2	1		1						5	4	16	1				1	2					2		
18	sgg	13	14						1												4				1						1		
19		8	8					2												1	1	13			1	1	1			1	1		
20		5	5			2		1	2		6				1				2	2			9		1								
21		26	12			1			1			1	2							1		2		8									
22	cwo, CaMKII	6	6							4											1			8									
23*		29	28			1						1	2							1						12					2		
23*		12	13																							2							
24*		32																								2						
25		2	17				1				1						4	3										19			1		
27	vri	25	27		1		1													2					1					7		0.191	0.0001
28	slimb	10	11	2			1		1	1	1				1						1										6		
			11																									0,5		0,5			
		18	30								1		1																				
			22								1								1	1					1	1	1		1				
			4									2	1																				
			19				1													1								0,5	0,5	1,5	0,5		