













Supplementary materials:

Table 1: Details of cecropin gene sequences of *B. mori* retrieved from the NCBI database

Ta	cDNA	Cecropin sub family	cDNA accession no	Gene/ Protein	Protein accession no	Reference authors	Length of nucleotide sequence
1			S60579	Cec -B	AAC60501	Kato <i>et al.</i> , 1993	420 bp
2		Cecropin B (7)	D11113	Cec -B	BAA01889	Taniai <i>et al.</i> , 1992	415 bp
3			AF303891	CBM-2	AAG27715	Li <i>et al.</i> , 2000	430 bp
4			D11114	Cec - B	BAA01890	Taniai <i>et al.</i> , 1992	402 bp
5			S74297	Cec -B	ABU23728	Jeffy, <i>et al.</i> , 1994	192 bp
6			EU047749	Cec -B	ABU23728	Jeffy <i>et al.</i> , 2007	192 bp
7			AF303892	CBM2-2	AAG27716	Zhang and Zhou, 2000	432 bp
8			Cecropin A (3)	AF303890	CBM1	AAG27714	Li <i>et al.</i> , 2000
9		S74376		Cec -A	AAC60515	Yamano <i>et al.</i> , 1994	560 bp
10		D17394		Cec -A	BAA04217	Yamano <i>et al.</i> , 1994	544 bp
11		Cecropin E	DQ233467	Cec -E	ABB19289	Hong <i>et al.</i> , 2005	393 bp
12		Cecropin D	AB010825	Cec-D	BAA31507	Yang <i>et al.</i> , 1994	287 bp
13		Enbocin	U30289	Enbocin	BAA31507	Yang <i>et al.</i> , 1995	287 bp

Table 2: Genomic organization, orientation and chromosomal location of paralogous cecropin gene sequences of *Bombyx mori*

Paralogous gene sequence ID	Gene	Name of the protein	Scaffold & Position	Orientation	No. of exons & introns		Chromosomal location
					Ex	In	
BGIBMGA000017	Cecropin D	Cecropin D	nscaf1071, 408,223 to 409,845		2	1	
BGIBMGA000018	Enbocin -3	Enbocin -3	nscaf1071, 400,159 to 402,528		2	1	
BGIBMGA000020	Cecropin E	Cecropin E	nscaf1071, 360,652 to 361,998		2	1	
BGIBMGA000021	Cecropin B1	Cecropin B1	nscaf1071, 359,316 to 359,899		2	1	
BGIBMGA000023	Cecropin B2	Cecropin B2	nscaf1071, 353,747 to 354,342		2	1	
BGIBMGA000024	Cecropin B3	Cecropin B3	nscaf1071, 346,992 to 348,048		2	1	













BGIBMGA000036	Cecropin B4	nscaf1071, 367,575 to 368,267		2	1	
BGIBMGA000037	Cecropin B5	nscaf1071, 386,711 to 387,454		2	1	
BGIBMGA000038	Cecropin B6	nscaf1071, 392,663 to 393,260		2	1	
BGIBMGA000039	Enbocin-2	nscaf1071, 431,749 to 432,960		2	1	
BGIBMGA006280	Cecropin A	nscaf2852, 1,255,833 to 1,256,608		2	1	
BGIBMGA014285	Cecropin A	scaffold1085, 1,402 to 2,514		2	1	

Table 3: Expression pattern of *Bombyx mori* cecropin in different tissues based on the data obtained from silkworm EST database

Expressed in tissue/organ	Cecropin protein family				
	Cecropin A	Cecropin B	Cecropin D	Cecropin E	Enbocin
Testis	-	12%	-	12%	-
Hemocyte	-	3%	-	4%	-
Prothoracic gland	-	1%	1%	2%	1%
Brain	4%	24%	24%	28%	24%
Antenna	-	2%	-	2%	-
Microbial infected fat body	93%	55%	18%	46%	39%
Pheromone gland	1%	1%	-	2%	-
Ovary	-	-	1%	-	1%
Midgut	-	-	2%	-	2%
Fat body	-	-	1%	-	-
Unknown	1%	1%	33%	2%	3%
Unknown	1%	1%	20%	2%	2%