

A

B

<i>P. xylostella</i>	MKTII I M LA VAVAFAA PPGA- - - - PTEPI PI LRQESEI SPDGS- YSWAYETCNGI SADEKGSLKNI GAEPALEEV CCCF : 73
<i>S. frugiperda</i>	MKFLVVLV T AVACASADVSHVVK- DDFHAPI ESSSFDI EPCGD- FKYSFKTCNGI YAEESGVLKNANSNDYPSLDVSCGF : 77
<i>S. cynthia ricini</i>	MKFLVVLVLA VAVACASADVSHVVRQDEYVAPI VKSSYDI TPEGN- FCYNFETCNGI YAAADGVVKDFNSEYPSLEI KGAY : 78
<i>B. mori</i>	MKFLI VLAVAVACASADVSHI AKSDEYAAPVVKSSYDI TPEGH- FCFNYETCNGI YACAEGAVKNVNSEYPAI EVKGAY : 78
<i>M. sexta</i>	MKFLVVLVLA VAVACASADVSHI VK- DEASAPVLKSSYDI SPEGN- FCYLYETCNGI VACADGSVKVNNSEYPAVG VCCG : 77
<i>P. polytes</i>	MKFLVLF AVALASADVSHI VRTDEYC API I KSSYDADPVGN- FCYBEYETCNGI AACACGVVKNPNSEAATLEVKGSV : 77
<i>P. xuthus</i>	MKFLVLF AVALASADVSHI VRSDESCAPI LKSAYESSPEGN- YQQVYETCNGI SACAEGVVKNA NSESATLEVKGSV : 77
<i>D. plexippus</i>	MKFLVLLA VAVAYVSAEC KY- - - DESAASI VKSSFDSSPEGNFSYGFESNNGI I SCAEGVVKNPSENPALEEVKGSV : 75
<i>H. melpomene</i>	MKFLVVLVLA VAVACAAADV AHI VRSDESCAPI VKSAYEI SPEGHFSFCYAYETANGI YSEADGVLKNSNSDYPAL EEVKGSV : 79
	MKF 6661 a va a adv h de ap6 s P G 5 5 5e3g NGL a a G 6K1 nse p 6e6 G

**Figure S3** Sequence characteristics of *BmorCPR2* between Dazao and Dazao-stony. A. Full-length cDNA sequences of *BmorCPR2* between Dazao and Dazao-stony. B. Alignment of *BmorCPR2* and orthologs among nine Lepidopera species. The orthologs were identified using BLAST (blastp and tblastn), known genomes or EST databases of selected Lepidopera insects, NCBI, CuticleDB (<http://bioinformatics.biol.uoa.gr/cuticleDB>) and OrthoDB (<http://cegg.unige.ch/orthodb6>). Sequence alignment using Muscle program (<http://www.ebi.ac.uk/Tools/msa/muscle/>), is listed as follows: *Bombyx mori* *BmorCPR2*, *Papilio polytes* CPR2, BAM18876.1, *Papilio xuthus* CPR2, BAG30800.1, *Danaus plexippus* EHJ77392.1, *Manduca sexta* Msex000162-RB, (Manduca base), *Heliconius melpomene* HMEL002550-PA, (Heliconius Genome Project), *Samia cynthia ricini* I10A02NGRL0007\_H08 (SilkBase), *Plutella xylostella* Px003256.1 (Diamondback moth Genome Database), *Spodoptera frugiperda* Sf1P23819-5-1, (SPODOBANE). The black line represents the RR1 motif.