

	141	150	160	170	182	190	200	210	220	
<i>Apis mellifera</i>	QVDTQGENAVKVN	SVQVPTDD	--EPYASFKAME		YDIA---	PLSDFVIHRSPELVP	-----MPTLK	-GDGRHMEVIKIKNF	DNC	
<i>Athalia rosae</i>	QVDTQGENAMKSR	YNQPEEGD	--QAYATYKAME		YDIS---	PLPEYVLQTKPELAP	-----VPQLK	-GSGQIIDIVKTSN	FSNC	
<i>Pimpla nipponica</i>	QVDTQGENLMASK	YNQPEPEDE	--GVTAMFKTME		YDIN---	PLPEFVLQKRPELVP	-----MPDIR	-GDGEIIDIVKTKN	YSNC	
<i>Pteromalus puparum</i>	QVDTQGENAIRSK	HNFPEGK	--QPYALFKVME		YDVS---	ALPDRVVQTNPELVP	-----IPELR	-EDGDIISLVKTKN	SNC	
<i>Encarsia formosa</i>	QVDARGQNAEYSK	HNFPEGK	--QPYAIFKTR		YDIS---	PLPEEVLQSQPELVP	-----MPELR	-GGDGEHISIKTRNF	SNT	
<i>Bombus igitus</i>	QVDSLGENAIRTSEM	QIPTDE	--HPYGMFRAME		YDIT---	PLPEQNVYVQPELVP	-----VPDLK	-REGQYIDIRKSN	FNKC	
<i>Bombus hypocrite</i>	QVDSLGENAIRTSET	QIPTDE	--YPYGMFRAME		YDIM---	PLPEPNLYVQPELVP	-----VPDLK	-REGHYIDIRKSN	FNKC	
<i>Solenopsis invicta</i>	QVDLQGENVIASSD	NQIPDD	--QPFVYKAME		YSIT---	PVPEN	-----FDSIP	-----FPNLR	-KDGLNFFVTKTKN	YNKC
<i>Solenopsis invicta2</i>	QVDTQGENAINSK	SIQVPSDE	--SFAATFKAME		YEIT---	PLTVNEIQAKQDRIP	-----MPSLH	-SDGNHYEVKKL	KNYERC	
<i>Riptortus clavatus</i>	QVDTQGKNLKD	SKINLVP	SGQSGEP	MPGVYKTME	YDIS---	VLPEYILQARPELAP	-----LPHLK	-GDGEFIEVVKTR	NRNFSNS	
<i>Homalodisca coagulate</i>	QVDTQAENLQKSR	INSLPTQE	--TVNGVYKTME		YDIS---	PLPKVVLQNKPELAP	-----MPHLQ	-ADGQLIDIVKTM	NFSNC	
<i>Anthonomus grandis</i>	QMDLQGENALQNP	TSSFPINE	--YMDAVFKTME		YDIH---	RLPEYLVQSQPWIA	-----QYKLR	-GEGDLIEVLSKSN	YNTA	
<i>Lethocerus deyrollei</i>	QIDTAARNLQKSR	INQLPAMH	--KPMGVYKTME		YDVS---	PLPDYLLQSKPELAP	-----LPHLR	-ADGRIIEIVKTR	NRNFSNC	
<i>Aedes aegypti</i>	QVDRGANLMHSSK	PIHPSKN	--EWNHYKVM		YDVS---	LIPAYMIQAHKQWVP	-----QGQLR	-GEGDGFQFIQV	TQNFDR	
<i>Nilaparvata lugens</i>	QVDVTGQNAIKSR	RNIVPNGQ	--QVSGSPKVM		YDVS---	ELPMRVVQHP	PEIAPLAVK	QGGQGGQGS	SRSLIQVVKSRNF	SNC
<i>Graptosaltia nigrofusca</i>	QFDTEGENIQKSR	SNSLFDNSDD	--PVVTFKTME		YDFS---	PLLKQELMENPKLAP	RVG---LSKLN	--DIGLFRVVK	TINYNDC	
<i>Antheraea pernyi</i>	QLDLSTHRNIHGS	QDSYDRE	--KQGLFRKME		YSVS---	PVASEWRRELPKFAS	-----QEDPIE	ITKSKNYGHC		
<i>Saturnia japonica</i>	QLDLSTHRNIQGS	QNRDQEQ	--KQGLFRKME		YTVS---	PVASEWRRELPKFAS	-----EDPIE	ITKSKNYGHC		
<i>Periplaneta americana</i>	QVNTQADNLVHR	RYNILPNAS	--TDSAVYSIRE		YDVS---	PLPALPLLQHP	PELAP-----LSNVND	NVIDIEK	TQNFNSNC	
<i>Blattella germanica</i>	QVVVDEDKK		-----VYRVFE		YEV	DHLYPTTYLNP	QWTQQHD-----TKLR	IMKTHQFT	TNC	
<i>Leucophaea maderae</i>	QLTTQPSFK		-----PVYRVKE		YDFS---	PLLKTEMKLWNYLDN	-----DNLQV	TRTQNI	SHC	
<i>Ichthyomyzon unicuspis</i>	QLSLKKNQ		-----QTFELQE		YVVQ---	EGYRT	-----NEMAV	VKTKDL	LNNC	
<i>Acipenser transmontanus</i>	QLTIKKTQ		-----NVYGLQE		YVIQ---	EDRKA	-----NKIIV	TKSKDL	LNNC	
<i>Oreochromis aureus</i>	QLNVKKTQ		-----NVYEMQE		YVIR---	EDARA	-----ERIH	LTKTKDL	NHC	
<i>Oncorhynchus mykiss</i>	QLNIKKTQ		-----NVYELQE		YVIR---	EDAKA	-----ERIH	LTKSKDL	LNNC	
<i>Fundulus heteroclitus</i>	QLNIKKTQ		-----KVYDLQE		YSIS---	EDARI	-----ENILL	TKTRDL	SNC	
<i>Xenopus laevis A2</i>	QVTIKKSQ		-----DVYDLQE		YVIQ---	EDKRG	-----DQIRI	IKSTDF	FNNC	
<i>Anolis carolinensis</i>	QITIKKSQ		-----NVYELQE		YVIQ---	EDRKN	-----SRIF	VTKTV	DSN	
<i>Gallus gallus</i>	QMTIKKSQ		-----NVYELQE		YVIQ---	EDRKN	-----SRIY	VRTV	DLN	
<i>Homo sapiens MTP</i>	QTQLSSGT		-----TNE		YQAH---	QDK	-----VTKI	KAL	DS	