

ADepressant insect β -NaTx-like

		Signal peptide										MATURE PEPTIDE													
		11020304050607080										aa	%I	E-value	%I	E-value									
KF770819	MgibC10	mkl1llllivsasmliegvvnvgDGYIRMRDGC										86	100	-	94	-									
KF770806	Mgib49	mkl1llllivsasmliegvvnvgDGYIRTRNGCKVSCVWGN										86	94	-	100	-									
Q8T3T0.1	BmKITa1	mklflllllisasmlidglvna-DGYIRGSNGCKVSC										85	84	4e-29	84	3e-29									
Q9XY87.1	BmKdITAP3	mklflllllisasmlidglvna-DGYIRGSNGCKVSC										85	84	4e-29	82	5e-29									
ACJ23130.1	Tx775	mkl1llllvisasvlieglvna-DGYIRRRDGC										85	80	2e-28	80	2e-28									
Q26292.1	LqhIT2	mkl1lllllivsasmlieslvna-DGYIKRRDGC										85	79	9e-28	79	1e-27									

B α -NaTx-like precursors

		Signal peptide		MATURE PEPTIDE												
		1	10	20	30	40	50	60	70	80	90	aa	%I	E-value		
KF770808	Mgib13	-----		fdd	GYPVKN	GCRISCI	PDEHEDLCNQFCKKNKANS	SGECDFDADACKCWGELDGMEIWNPKS	SECKSWNDNLITKIL	--EN		78	100	-		
ABR21048.1	Toxin-4	mknlfvivilmialltemdtsifdd		GYPVKN	GCRISCI	PSEHDDICDQFCKKKKAKSGG	CDFDADACKCWGELDEMEIWEPKTSKCN	SWNDNLITKIL	--EN		99	84	3e-39			
ABR20119.1	Toxin	mknlfvivilmialltemdtsifdd		GYPVKN	GCRISCI	PSEHDDLCDQFCKKKKAKSDG	CDFDADACYCWGELDEMEIWEPKTSKCN	SWNDNLITKIL	--EN		99	83	1e-37			
ADY39516.1	U3m-Hj1a	-----tanfnd		GYPLRN	DCPISCI	PDDHYEHCNQFCIKNQAESG	SCDFDADACKCWGIPSEMKIWNPKSSKQ	SWNQNLITNFFNLED			83	68	5e-29			

	1	10	20	30	40	50	60	70	80	aa	%I	E-value																												
AAV88457.1 BmKTb'	mnyl	vmis	fafll	mtg	ves	ARDAYIAQNYNCVYH	CARDAYCNE	LTKNGAKSGS	CPYLGEHKFACYCKDLP	-----DNVPIRVP	CGKNGG	85 38 0.18																												
Q9GQW3.1 BmKaIT1	mnyl	vmis	fafll	mtg	ves	VRDAYIAQNYNCVYH	CARDAYCNE	LTKNGAKSGS	CPYLGEHKFACYCKDLP	-----DNVPIRVP	CGKHrr	85 38 0.15																												
Q9GQV6.1 BmKaTx16	mnyl	vmis	fafll	mtg	ves	VRDAYIAKPHNCVYEC	CARNEYCNDL	CTKNGAKSGY	CQWVGKYGNCWC	KELP	-----DNVPIRVP	CGKChr	84 40 0.22																											
Q9BLM3.1 AahP985	mnyl	vmis	la-ll	iag	vd	ARDAYIAKNDNCVYEC	FQDSYCNDL	CTKNGAKSGT	GDWIGTYGDAC	LYALP	-----DNVPIKLS	GECHr	83 35 2.1																											
KF770815 Mgib248	myvf	vmi	ifa-	ll	mtg	vk	NE	SWDFLAGKCS	CLLR	CP	TKAR	CNGF	CLDS	GAKSGRC	Q	RVK	GVDY-	C	ICED	L	P	V	K	T	M	K	E	D	L	R	I	C	T	P	A	F	S	D	--	86 100 -