

Table S1. Mature neuropeptides/peptide hormones predicted from *Balanus amphitrite*.

Peptide name	Predicted mature peptide
ASTA-1	DRTYGFGLa
ASTA-2	DQNRPYRAYGFGLa
ASTA-3	GRPYSTYGFGLa
ASTA-4	ERTYGFGLa
ASTA-5	ERTYGFGLa
ASTA-6	QPSYAFGLa
ASTA-7	PSASQYAFGLa
ASTA-8	PTYGFGLa
ASTA-9	PSYGFGLa
ASTA-PRP1	KQLGQDHQLATDLLDDNYDDTY(SOH)DLEPDGEDVE
ASTA-PRP2	NGHDDIPN
ASTA-PRP3	SWSWFEGPTRDVL
ASTA-PRP4	SAPAGVDEDLDDPDTALLLMTAARDLADGEVKSPAGRHRIGSDSGQTHTKPEDVSSQEKGVRFQL
ASTB-1	DWNALHGNWa
ASTB-2	KWNSFTGSWa
ASTB-3	GAKWNGFAGSWa
ASTB-4	SKWNDMGPSWa
ASTB-5	AKWENFGGSWa
ASTB-6	AKWDNFGGSWa
ASTB-7	KNWDFNGAWa
ASTB-8	KGWDSFSGGSWa
ASTB-9	SAWNDFSGGSWa
ASTB-10	RKDWTQLNGMWa
ASTB-PRP1	DPSEVTGDPEDDRELMREVANGLVLSAYEPED
ASTB-PRP2	SKWDDIDDDSL
ASTB-PRP3	SVSTPELQEAADRLEKFIIVSHYEPSPEVEVSSGETQA
ASTB-PRP4	SSSKALLLA
ASTC	SYWKQCSFNAVSCFGa
ASTC-PRP1	KSLQKDVVFPQYDAEDHKLDVMPDDGTAETALLNYLARQML
ASTC-PRP2	LSSNLDVTELQR
SIFamide	GYRKPTFNNGSIFa
Bursicon α	DECKLTPVVHVLQYPGCVPKPIPSYACVGHCTSYVQVSGSKLWQTERSCMCQESGQREASVSIFCPKAKQS DQKFRKIVTRAPVECMCRPCTQAEESKAIPQEVAGFVSGGMSLESMPFV
Bursicon β	ARPQCETIPSTIHKDEFSSSQGLERTCEGDIPVKNKCEGTCSQVQPSVISPSGFNKECSCKETGLRVREITLT RCFNPDGQQVAGDQGRLLTVKLRPEPDCRCSRCEEN
Calci-A	GFDGFLGRGFSASQAAKHKMGLEAAEFPSGPa
Calci-B	GLDFGLGRGFSGSQAAKHMMGLAAANFAGGPa
EH	SIGSCVRNCGQCKSMYGRFFQGTACADACLAGNEGPDYCNPSMVSRL
PDH	NSELINSLGLPKIMNEAa
Sulf-1	ALDYGHRLFa
Sulf-2	NPDY _(SOH) GMMKFa
Sulf-3	SPDY _(SOH) GFMKFa
Sulf-4	SPDYGFMKFa
Sulf-PRP1	ADQEHFISSARVGPLFEDFEPDLYDYED
Sulf-PRP2	TASLASAGESGGQLADA
Sulf-PRP3	RAAKSAGRS
TRP-1	PHTGFLGMRa
TRP-2	APSGFAGMRa
TRP-3	VPSGFGGMRa
TRP-4	APQNSFLGLRa
TRP-PRP1	SAPAPTELQLPSVTLRQPLPGQLPSPQQLQLFRAAGPYSRQLAARIAD
TRP-PRP2	EELGARGSEHDLE
TRP-PRP3	ADVVEGGEH
TRP-PRP4	EEQGHP
Orco-1	NFDEIDRSGFSGFA
Orco-2	NFDEIDRSGFTGFA
Orco-3	NFDEIDRSGFSGFV
Orco-PRP1	RPYKDQQLSDRGIDSLGGGHLLRGIDSLGGGHLLRGIDSLGGGHLLRGIDSLGGGHLLRGIDSLGGGHLLRE ADSQGG
Orco-PRP2	HLSNVYTQRLIDYNSHPEAYD
Orco-PRP3	ALDPLSGVSGFVE
Orco-PRP4	LDLSGMTFGLE
Orco-PRP5	PQSSSVQ
Orco-PRP6	EAPAKEKL
IRP	PVDKRGPMHFHFCGSLADALEMVCEFGMGKRSRTAPRQNLRLPEFSGGHLSTSSASTMPYYQTLYQSADS RTRKSPGIVEECLNPCTLSTLAQYC
NPF	SEPRDLRSAGSGEMLSGDIDNYLSELKDFYTKVGRPRFa

Abbreviations: "PRP" is the briefing of precursor-related peptide; "a" represents the C-terminal glycine that will be amidated during post-translational modification. (SOH) marks the amino acid residues that will be sulfidated.