

A

<i>Atta cephalotes</i> TRP	1	-----MLFSSVFLAVWTSSSF AEESSNDAAS-----AKRAPM-GFQGMRG
<i>Drosophila melanogaster</i> TRP	1	MRPLSGLLIALALLLLLTAPSSAADTETESSGSPLTPGAEEPRRVVKRAPTSSFTIGMRG
<i>Acromyrmex echinatio</i> TRP	1	R-----MLFSSVFLAVWTSSSF AEESSNDAAS-----AKRAPM-GFQGMRG
<i>Atta cephalotes</i> TRP	41	KKDLIPTVAEHNELSKR-TLVNF-----QGMRGKKDYL
<i>Drosophila melanogaster</i> TRP	61	KKDEEHDTSEGNWLGSGPDPLDYADEEADSSYAENG-----
<i>Acromyrmex echinatio</i> TRP	42	KKDLIPTTAEHNELSKR-TLVNFQDKDSSASEIEDNLLHDEFDKRAPKGFQGMRGKKDYL
<i>Atta cephalotes</i> TRP	73	IPDFEDSYFLEDYDKRAPMGFQGMRGKKKAILEDEY-----
<i>Drosophila melanogaster</i> TRP	97	-----RRLKKAPLAFVGLRGKKFTIPINNRLSDVLQSL EEEERLRDSL LQDFFDRV
<i>Acromyrmex echinatio</i> TRP	101	TPDFEDSYFLEDYNKRAPMGFQGMRGKKKAILEDEY-----
<i>Atta cephalotes</i> TRP	108	-----YKRAPMGFQGMRGKKSL EEVLS EIEKRAASLG FYGTRGKKTYIFEYPQDYEK
<i>Drosophila melanogaster</i> TRP	146	AGRDGSAVGKRAPTGF TGMRGKR P-----
<i>Acromyrmex echinatio</i> TRP	136	-----YKRAPMGFQGMRGKKSL EEMLS EIEKRAA-LG FYGTRGKKTYVFEYPQDYEK
<i>Atta cephalotes</i> TRP	160	RLLAMEFQDMHNKIKEEWEKRAS M-GFQGMRGKKALYDEIEELEKRTLMGFQGMRGKKDG
<i>Drosophila melanogaster</i> TRP	170	ALLAGDDDAEAD EATELQQKRAPVNSFVGMRGKKDVSH--QHYKRAALSDSYDLRGKQQR
<i>Acromyrmex echinatio</i> TRP	187	RLLAMDFQDMHNKIKEEWEKRAPM-GFQGMRGKKALYDEIEELEKRALMGFQGMRGKKDG
<i>Atta cephalotes</i> TRP	219	FENYIDYYIDDPDMDFDKRASMSFQGMRGKKDT-----DK
<i>Drosophila melanogaster</i> TRP	228	FADFN-----SKFVAVRGKKS DLEGNGVGIGDDHEQALVHPWLYLWGEK
<i>Acromyrmex echinatio</i> TRP	246	FENYIDYYIDDPDMDFDKRAPMSFQGMRGKKDT-----DK
<i>Atta cephalotes</i> TRP	254	RAPMGFQGMRGKRSVGRFE P STNFGPLNEYQGMGNRRHILASCQVEKRSPFRYFEMRGK
<i>Drosophila melanogaster</i> TRP	272	RAPNGFLGMRGKR PAL-----
<i>Acromyrmex echinatio</i> TRP	281	RAPMGFQGMRGKRSVGRFD PNMNFGSLNEYQGRSNRRHILASCQVEKRSPFRYFEMRGK
<i>Atta cephalotes</i> TRP	314	KNPRWELRGMFVGVRGKKWANAPYEDNSPFIRVLDNTERIGMDGDSPTTLGNRLADSQLV
<i>Drosophila melanogaster</i> TRP	288	-----
<i>Acromyrmex echinatio</i> TRP	341	KNPRWELRGMFVGVRGKKWANAPYEDNSPFIRVLDNTERIGMDGDSPTTLGNRLADSQLI
<i>Atta cephalotes</i> TRP	374	SNILVALILFIASFIFYAYL NMLVVFIKYQAVYQNV EKEKLNLSLSTQT FKNLLERILNAM
<i>Drosophila melanogaster</i> TRP	288	-----
<i>Acromyrmex echinatio</i> TRP	401	SNIYVAVLFITSFIFHVYLMAKYACSIYQVSSNLSERRERKIN--FFSFHTNVQNI F---
<i>Atta cephalotes</i> TRP	434	YHFQKFLNITL F YVFTLHATHRAYLNVFSIFVICVDILYSYCN NCFYSRY
<i>Drosophila melanogaster</i> TRP	288	-----FE
<i>Acromyrmex echinatio</i> TRP	456	-----FSAF-----YMQC-IIEFKN--

B

	Tachykinin-related peptide 1, TRP-1	TRP-2	TRP-3	TRP-4	TRP-5
<i>D. melanogaster</i>	APTSSFIGMR-NH ₂	APLAFVGLR-NH ₂	APTGFTGMR-NH ₂	APVNSFVGMR-NH ₂	APNGFLGMR-NH ₂
<i>A. cephalotes</i>	APM-GFQGMN-NH ₂	APMGFQGMN-NH ₂	APMGFQGMN-NH ₂	APM-GFQGMN-NH ₂	APMGFQGMN-NH ₂
<i>A. cephalotes</i>	TRP-1a TLVNFQGMN-NH ₂			TRP-4a TLMGFQGMN-NH ₂ TRP-4b ASMSFQGMN-NH ₂	

C

		F(x)GLM-NH ₂ motif
<i>Homo sapiens</i>	Neurokinin A	DMHDFFFVGLM-NH ₂
	Neurokinin B	HKTDSFVGLM-NH ₂
	Endokinin A/B	GKASQFFGLM-NH ₂
	Endokinin C	KKAYQLEHTFQGLL-NH ₂
	Substance P	RPKPCQFFGLM-NH ₂
	Neuropeptide K	DADSSIEKQVALLKALYGHGQISHKRHKTSFVGLM-NH ₂
	Neuropeptide γ	DAGHGQISHKRHKTSFVGLM-NH ₂