

	Signal peptide	Hormone	Neurophysin
(A)			
VP_human	---MPDTMLPACFLGLLAFSSA	CYFQNCPRG	GKR AMSDLELRQCLPCGPGGKGRCFGPSI
VT_B.japonicus	-----TAPVPACFLCLLALSSA	CYIQNCPRG	GKR SYPDTAVRQCIPCGPNRGNCFGPNI
VT_X.tropicalis	---MPEASVPACFLCLLALSSA	CYIQNCPRG	GKR SYPDTELRQCMQCGPGNRGNCFGPNI
VT_lungfish	---MPGTCLPLCLFLCLLAFSSA	CYIQNCPRG	GKR SFIDTEIRQCIPCGPQNRGRFCGPYI
VT_coelacanth	---MPEVSLPVCFLCLLALSSA	CYIQNCPRG	GKR SFTDITDIRQCIPCGSGSRGQCFGPNI
VT_fugu	---MPQCALLLLSLGLLALSSA	CYIQNCPRG	GKR ALPDTGIRQCMSCGPRDRGRFCGPNI
VT_flounder	---MPHSMFPLCVLGFALSSA	CYIQNCPRG	GKR ALPDTGIRQCMPCGPGDRGRFCGPGI
VT_T.scyllium	---MPQLSLPLSLCLLAFSTA	CYIQNCPRG	GKR SFLDTGVRQCMTCGPNRGHCFGANI
VT_lamprey	MARCAPLTLAVSVLSVLISSA	CYIQNCPRG	GKR DLTD-VRQCLPCGPGGQGRFCGPRI
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VP_human	CCADELGCFVGTAEALRCQEENYLPSPCQSQGKACGS - GGRCAAFGVCCNDESCVTEPEC
VT_B.japonicus	CCGEDLGCVYGTPELTRCVEETYLPSPCEAGGKPCSS - GGRCAAPGVCCSDDTCVVDSSC
VT_X.tropicalis	CCGEDMGCYIGTPETLRCVEENFVSPCEAGGRPCST - GGRCAAPGICCNDESCSLDSAC
VT_lungfish	CCGEELGCVYIGTSETLRCLEENYLSSPCKAGGKLCSTNGGQCAAPGICCTDESCAMDSSC
VT_coelacanth	CCGEFEGCYFGTSETQRCLEENYLSPSPCEAGGKPCGTNGARCAAPGICSSDDSCSVDPAC
VT_fugu	CCGEALGCLMGSPETARCAGENYLLTPCQAGGRPCGSEGGRCASVGLCCNSESACVDSDC
VT_flounder	CCGEGLGCLLGGSPETAHCVEENYLLTPCMAGGRPCGSEGGRCASGLCCNPESCAVDSDC
VT_T.scyllium	CCGEEIGCYIGTSETLRCQEENYLPSPCEPAGRPCGRNSGKCAASPICCTDETCASTDSTC
VT_lamprey	CCGEAMGRLGGPDVAICRAERLMPSPCESRGEPCGH - GKGCGAPGLCCSSESACADASC
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	copeptin

VP_human	-REGFHRRARASDRS NAT QLDGPAGAL LLRL VQLAGAPEPFEPDAQDAY
VT_B.japonicus	-LDEDSERRRVTEQ NMT QMDGSASD LLRL MHMANRQQQS---KHQFY
VT_X.tropicalis	-LDDESERRRAPLEK NTT VMDGSASD FLRL MHMANRQQQA---KHQYY
VT_lungfish	-LDGDADKRRMFPER NLT LLDGATSD FLKL IHLANRQQQEE---KHLLY
VT_coelacanth	-AEGDSGRRRVSFER NTT HMNDAAND FLKL MRMANRQQEG---RNQIY
VT_fugu	-LGETESL-----EPGDSSADSSPTE LLRL LHMSSRGQSE-----Y
VT_flounder	-LAEIEAS-----DPGHGAGGSSPA ALLRL LHVTVARGQTE-----Y
VT_T.scyllium	-LEDENEWRNSPVEG NLT LLDSAAT LLRL MRLSNRQAAE---KHQLI
VT_lamprey	GWEGGDSPGERPFPHSALRLQSPA EAMLE LINSNSLRD-----
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	N-glycosylation site Leucine-rich core segment

	Signal peptide	Hormone	Neurophysin
(B)			
OT_human	-MAGPSLACCLLGLLALTSA	CYIQNCPLG	GKR AAPD-LDVRKCLPCGPGGKGRCFGPNIC
MT_B.japonicus	-MSYALAVTFFFGWLALSSA	CYIQNCPIG	GKR SVIDFMDVRKCI PCGPRNKGHCFGNIC
MT_X.tropicalis	-MTYSTLAACFLCLLALTSA	CYIQNCPIG	GKR SVMDIMDIRKCI PCGPRNKGHCFGNIC
[Phe2]MT_lungfish	MMSSASIPICLICLFAFSTA	CFIQNCPIG	GKR SVLD-TDLRKICSCGPNRGRGCFGPSIC
MT_coelacanth	-MSCTSISLCFICLCALTSA	CYIQNCPIG	GKR SVLD-AEIRKCI PCGPNRGRGQCFGNIC
IT_fugu	-MTGTAISVCLLFLLSVCSA	CYISNCPIG	GKR SIMD-APQRKCMSCGPGDRGRGCFGPGIC
IT_flounder	-MTGAASVCLLFLVFLCSA	CYISNCPIG	GKR SIMD-APLRKCMSCGPGDRGRGCFGPGIC
PAI_T.scyllium	-MQSACLAVSLFCLVFSRA	CYFNNCPIG	GKR SVMN-SEIRQCMQCGPENKGHCFGPRIC
ASV_T.scyllium	-MQSACLAVYLFLCLVLSAA	CYINNCPVG	GKR SLMN-REIRQCMPCGPNRGRHCFGANIC
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OT_human	CAEELGCFVGTAEALRCQEENYLPSPCQSQGKACGS - GGRCAVLGLCCSPDGCHADPACD
MT_B.japonicus	CGEELGCVYGTETLRCQEENFLSPCESGRKPCGNNGGNCARSGICCNHESCTMDPACE
MT_X.tropicalis	CGEELGCVYGTSETLRCQEENYLPSPCESGRKPCGNNGGNCAASGICCNHESCTVDPACE
[Phe2]MT_lungfish	CGEELGCGFFGTTEALRCQEENYWPSPCQSGGKPCGSEGGRCAPGICCSDESCSVSDSTCN
MT_coelacanth	CGEEFGCYFGTSETQRCLEENYLSPSPCEAGGKPCGTNGARCAAPGICCSDESCSLDSACN
IT_fugu	CGESFGCLMGSPESARCAEENYLLTPCQAGGRPCGSEGLCASSGLCCDAESCCTMDQSCL
IT_flounder	CGEGLGCLLGGSPETAHCVEENYLLTPCHAGGRPCGSEGGRCASGLCCDAESCCTDQSCCL
PAI_T.scyllium	CGERFGCYIGTAETVKCEKENYIFSPCEPIGRSCGKEGGKASSGVCCTDQNCAMDTACD
ASV_T.scyllium	CGEDIGCHIGTSETLMCQKEDYLLSPCEPTGRACGRNNGKCASSGICCTEQSCAMDLTCD
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	copeptin

OT_human	AEATFSQR-----
MT_B.japonicus	QDSVFS-----
MT_X.tropicalis	QDSVFS-----
[Phe2]MT_lungfish	QDVLFP-----
MT_coelacanth	LEVFVS-----
IT_fugu	SEEEGDERGSLFDGSDSGDVIL KLLRL AGLTSPhQTH
IT_flounder	IEEDGEDQTGQLEGDPSPDIIFR LLHL VGHASPhQSHQ
PAI_T.scyllium	TNNIYSSN-----
ASV_T.scyllium	IRTIYASD-----
	Leucine-rich core segment