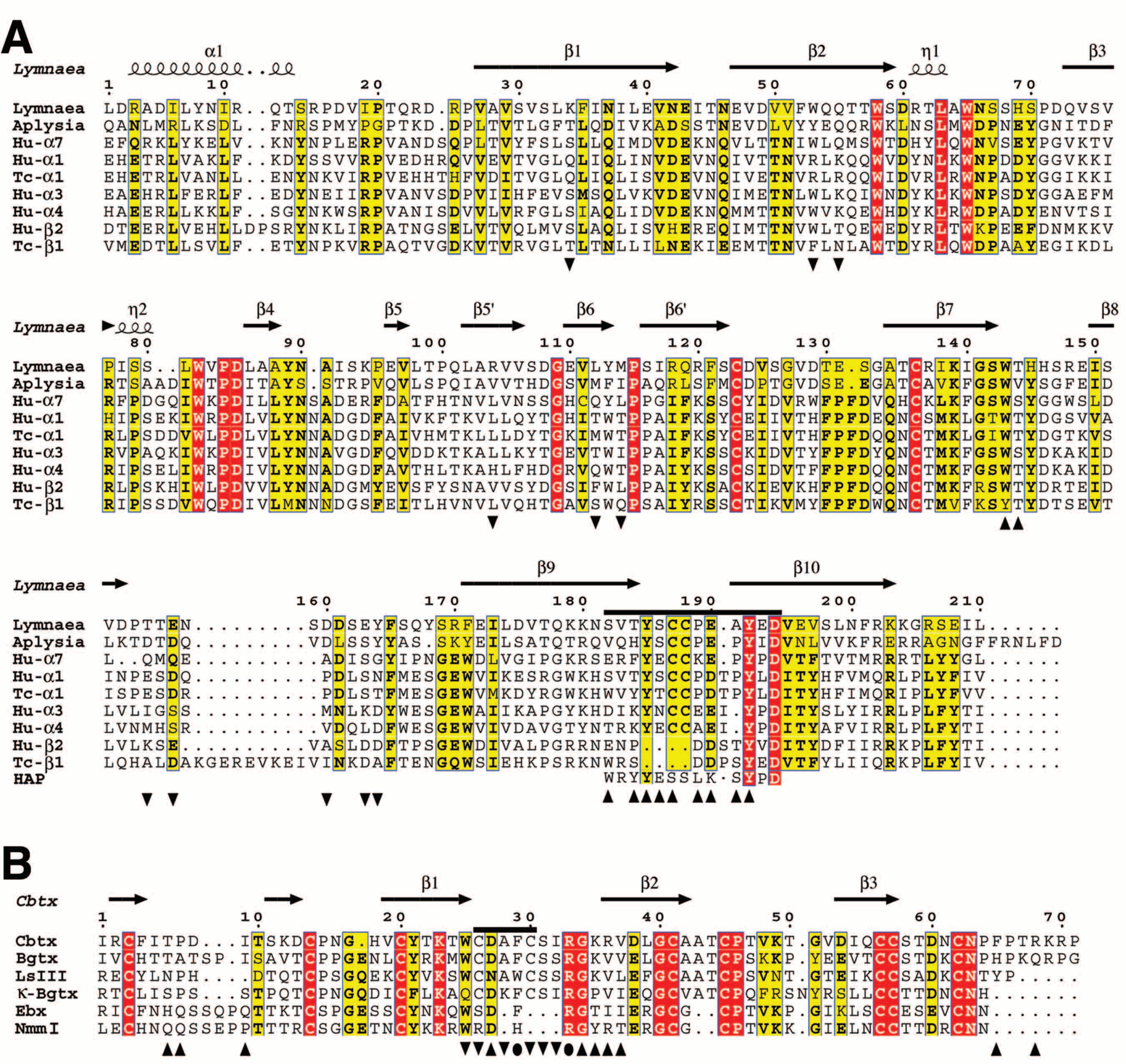
A
Lymnaea
α1
β1
β2
η1
β3
Lymnaea LDRADILYNIR..QTSRPDVIPTQRD.RPVAVSVSLKFINILEVNEITNEVDVVFWQQTTWSDRTLAWNSSHSPDQVSV
Aplysia QANLMRLKSDL..FNRSPMYPGPTKD.DPLTVTLGFTLQDIVKADSSTNEVDLVYYEQQRWKLNSLMWDPNEYGNITDF
Hu-α7 EFQRKLYKELV..KNYNPLERPVANDSQPLTVYFSLSLLQIMDVDEKNQVLTTNIWLQMSWTDHYLQWNVSEYPGVKTV
Hu-α1 EHETRLVAKLF..KDYSSVVRPVEDHRQVVEVTVGLQLIQLINVDEVNQIVTTNVRLKQQWVDYNLKWNPDDYGGVKKI
Tc-α1 EHETRLVANLL..ENYNKVIRPVEHHTHFVDITVGLQLIQLISVDEVNQIVETNVRLRQQWIDVRLRWNPADYGGIKKI
Hu-α3 EAEHRLFERLF..EDYNEIIRPVANVSDPVIIHFEVSMSQLVKVDEVNQIMETNLWLKQIWNDYKLKWNPSDYGGAEFM
Hu-α4 HAEERLLKKLF..SGYNKWSRPVANISDVVLVRFGLSIAQLIDVDEKNQMMTTNVWVKQEWHDYKLRWDPADYENVTSI
Hu-β2 DTEERLVEHLLDPSRYNKLIRPATNGSELVTVQLMVSLAQLISVHEREQIMTTNVWLTQEWEDYRLTWKPEEFDNMKKV
Tc-β1 VMEDTLLSVLF..ETYNPKVRPAQTVGDKVTVRVGLTLTNLLILNEKIEEMTTNVFLNLAWTDYRLQWDPAAYEGIKDL
η2
β4
β5
β5'
β6
β6'
β7
β8
Lymnaea
Lymnaea PISS..LWVPDLAAYN.AISKPEVLTPQLARVVSDGEVLYMPSIRQRFSCDVSGVDTE.SGATCRIKIGSWTHHSREIS
Aplysia RTSAADIWTPDITAYS.STRPVQVLSPQIAVVTHDGSVMFIPAQRLSFMCDPTGVDSE.EGATCAVKFGSWVYSGFEID
Hu-α7 RFPDGQIWKPDILLYNSADERFDATFHTNVLVNSSGHCQYLPPGIFKSSCYIDVRWFPFDVQHCKLKFGSWSYGGWSLD
Hu-α1 HIPSEKIWRPDLVLYNNADGDFAIVKFTKVLLQYTGHITWTPPAIFKSYCEIIVTHFPFDEQNCSMKLGTWTYDGSVVA
Tc-α1 RLPSDDVWLPDLVLYNNADGDFAIVHMTKLLLDYTGKIMWTPPAIFKSYCEIIVTHFPFDQQNCTMKLGIWTYDGTKVS
Hu-α3 RVPAQKIWKPDIVLYNNAVGDFQVDDKTKALLKYTGEVTWIPPAIFKSSCKIDVTYFPFDYQNCTMKFGSWSYDKAKID
Hu-α4 RIPSELIWRPDIVLYNNADGDFAVTHLTKAHLFHDGRVQWTPPAIYKSSCSIDVTFFPFDQQNCTMKFGSWTYDKAKID
Hu-β2 RLPSKHIWLPDVVLYNNADGMYEVSFYSNAVVSYDGSIFWLPPAIYKSACKIEVKHFPFDQQNCTMKFRSWTYDRTEID
Tc-β1 RIPSSDVWQPDIVLMNNNDGSFEITLHVNVLVQHTGAVSWQPSAIYRSSCTIKVMYFPFDWQNCTMVFKSYTYDTSEVT
Lymnaea
β9
β10
Lymnaea VDPTTEN.....SDDSEYFSQYSRFEILDVTQKKNSVTYSCCPE.AYEDVEVSLNFRKKGRSEIL.....
Aplysia LKTDTDQ.....VDLSSYYAS.SKYEILSATQTRQVQHYSCCPE.PYIDVNLVVKFRERRAGNGFFRNLFD
Hu-α7 L..QMQE.....ADISGYIPNGEWDLVGIPGKRSERFYECCKE.PYPDVTFTVTMRRRTLYYGL.....
Hu-α1 INPESDQ.....PDLSNFMESGEWVIKESRGWKHSVTYSCCPDTPYLDITYHFVMQRLPLYFIV.....
Tc-α1 ISPESDR.....PDLSTFMESGEWVMKDYRGWKHWVYYTCCPDTPYLDITYHFIMQRIPLYFVV.....
Hu-α3 LVLIGSS.....MNLKDYWESGEWAIIKAPGYKHDIKYNCCEEI.YPDITYSLYIRRLPLFYTI.....
Hu-α4 LVNMHSR.....VDQLDFWESGEWVIVDAVGTYNTRKYECCAEI.YPDITYAFVIRRLPLFYTI.....
Hu-β2 LVLKSSE.....VASLDDFTPSGEWDIVALPGRRNENP.....DDSTYVDITYDFIIRRKPLFYTI.....
Tc-β1 LQHALDAKGEREVKEIVINKDAFTENGQWSIEHKPSRKNWRS.....DDPSYEDVTFYLIIQRKPLFYIV.....
HAP WRYYESSLK·SYPD
B
Cbtx
β1
β2
β3
Cbtx IRCFITPD...ITSKDCPNG.HVCYTKTWCDAFCSIRGKRVDLGCAATCPTVKT.GVDIQCCSTDNCNPFPTRKRP
Bgtx IVCHTTATSP.ISAVTCPPGENLCYRKMWCDAFCSSRGKVVELGCAATCPSKKP.YEEVTCCSTDKCNPHPKQRPG
LsIII RECYLNPH....DTQTCPSGQEKCYVKSWCNAWCSSRGKVLEFGCAATCPSVNT.GTEIKCCSADKCNTYP.....
κ-Bgtx RTCLISPS...STPQTCPNGQDICFLKAQCDKFCSIRGPVIEQGCVATCPQFRSNYRSLLCCTTDNCNH.....
Ebx RICFNHQSSQPQTTKTCSPGESSCYNKQWSD.F...RGTIIERGCG..CPTVKP.GIKLSCCESEVCNN.....
NmmI LECHNQQSSEPPTTTRCSGGETNCYKKRWRD.H...RGYRTERGCG..CPTVKK.GIELNCCTTDRCNN.....