```
CL1     ------------------------------------------------MAGQDHWASFK
CL2     MPELHFSTV----VVF----------------------VVFSVASGAIQPSLYNEWSQWK
CL3     MGSFAKMFVAASFVLCFCIIGCFSADQNESPFQ--KNFIINSNTASKGVDYVSQSWSMFK
CL4     MKNIEFYSL----TIC------FSAI-----LLSV---CATRISRSNINTTIKSEWKAWK
CL5     ----------MSFCCGCCDKGKFEEEDE-SILRPQTKLLHEHLHQSLDKGDYDKCWSMFK
CL6a    MNTVQLGLL----LIS------VNAN-----LLLG---RSLRISEISADCDIRSEWNAWK
CL6b    ------------------------------------------------------------
CL6c    MNTTQFCLF----LLS------VGAS-----SLLV---SSLRINDINADSSIRSEWNAWK
CL6d    MNTAQTCLF----LIS------IGAS-----FLHV---NSLRINEINADSSIRREWNAWK
CL6e    ------------------------------------------------------------
                  E    R   F  N   I   N            G N F D
CL1     SQHAKNYDDEE-DTTRRTIFFTNLAAVEHHNALFNTGRADYSLALNHLSDWKDHELLCLR
CL2     AMHNKSYATATIEAEKLSVWMENRKHILAHNQN---QKFFYRLGLTEFADKTKQEFLSQY
CL3     NFFKRNFENAIEEGERFFIFARNFFMISSHNAEYASGKKIYELTLNKFSDAKESELMKLR
CL4     TTYEKSYDTQEEEEHRFATWLDIREKVRQHNAEYEAGKLSYGMELNQFSDESDEEFALRY
CL5     KLHQKSYEESEEESWRFELFKCKVNDVVAHNVRYKQGHVSYELGINHTADMTSAEKNILR
CL6a    LSYGKSYESHE-EEQRFAIWLSNRDRINSHNRKFEAGSLSYSLELNQFGDESDDEFAIRH
CL6b    ------------------------------------------------------------
CL6c    LTYGKSYESHE-EEKRFSIWLDNREKIKRHNRKYEDGSLSYSLELNQFGDESDDEFAMRH
CL6d    LTYGKSYESHE-EEKRFSIWLDNREKINRHNKKFEVGSLSYSLELNKFGDESDDEFAMRH
CL6e    ------------------------------------------------------MRH
                                        ⬇                       ▽
CL1     GHRADLK-------TFSRGSAFIPNACPF-ELPERVDWRDKGLVTPVKNQGQCGSCWAFS
CL2     VSKKHPHLLARQRFGQVFNKTELKARIGKLGLPTNVDWRHSGFVNPPKRQGECRSSYAFS
CL3     GYKAVMKK----HKDAPKGSTYISHSVDF-KLPTDVDWRNDGAVTDVKNQGQCGSCWAFS
CL4     KSKQTRKPKEHTINRLSLNVQELERKLGRRELPKSVDWRTFGVINNVKNQGRCGSCYAFA
CL5     GHRADML-------VVFSGSTYLPHLIDVSNLPDHVDWRTKGAVTDVKDQGQCGSCWAFS
CL6a    KKNMGKKVKEQKLNRVSLNVQQLEKKLGRRDLPQSIDWRNFGVVNRVKDEGNCGSCYAFA
CL6b    ------------------------------------------------------------
CL6c    KKNTGKKQKEQNYNRVSLNVQQLERKLGRRSLPQSVDWRNFGVINQVKDQGDCGSCYAFA
CL6d    KKNKGNKEKDQNFNRVSLNVQQLERKLGRRNLPQSVDWRNFGVINRIKDQGDCGSCYAFA
CL6e    KKNKGKKGKDQNLNRVSLNVQQLERKLGRRNLPQSVDWRNFGVINRIKDQGDCGSCYAFA
                                        ⬆      67
CL1     TTGSLEGQHFRKTGKLLSLSEQQLVDCSSAFGNHGCNGGLFDFAFKYVQDSGGITTEDLY
CL2     TVASIETYWAKKSGQLLQLSEQQLMDCATSQKMDPCKDNWPNYAFDYII-LNGLTTEDNY
CL3     TTGSLEGQHFRKTGNLVSLSEQQLVDCSSSYGNMGCNGGLMDNAFAYIKATNGIDYEDKY
CL4     TVCTIESHYAIKTSQLDNLSEQQIVDCAIDEGDEGCNGGLMDFSYDYVL-IRGLTKAQNY
CL5     TTGSLEGQHFRKTGKLVSLSEQQLTDCSSSYGNQGCNGGLVDQAFQYVRDCGGLQSENSY
CL6a    TVCTIESHYAIKTGQLLKLSEQQIVDCAGEEGDEACDGGLPDFTYDYVF-FRGLTTEKNY
CL6b    ------------------SEQQICSTCAIDEGDDACDGGLPDFSYDYVL-IRGLTTEKDY
CL6c    TVCTIESHYAIKTSHLLRLSEQQIVDCAIDEGDDACDGGLPDFSYDYVL-IRGL------
CL6d    TVCTIESHYAIKTSHLLRLSEQQIVDCAIDEGDDACDGGLPDYSYDYVL-IRGLTTEKNY
CL6e    TVCTIESHYAIKTSHLLRLSEQQIVDCAIDEGDDACDGGLPDYSYDYVL-IRGLTTEKDY
                                .:*    *:       *...  : :: *:    *:
                                                              133
CL1     PYVSGVIQKAHDVCSYNPDMCKATCTGWVDIPSKDSKALMYAVATIGPISIAINAMGPGF
CL2     SYRAKKG-----QCKEIQIKDVVWIYNYVDLPANDEHAMQLTLALLGPLSVVLEAA-PDL
CL3     PYVSGDTGSAEDTCYFKEEDIGAVDTGYVDIPTEDEAALQEAVANVGPVSVAINAGRADF
CL4     PYKAKSG-----VCKDDKIEPAVHIHSYVDLPSNDEYALKLSLALLGPVAVAIDAE-NDF
CL5     PYISGATSQA-ASCNFDPNKIAATCTGFVDLPEGDEAALMHALATTGPVSIAINAEPADF
CL6a    PYKEKMG-----ICMDHKYKPAVHIHNYVDLPVEDEYALKLSVALLGPVAVGIDAD-NNF
CL6b    PYKDGMT-----ICKDDKFKPAVHIHSYVDLPAQDEYAMKLSVALMGPVAVGIDAE-NTF
CL6c    ------------------------------------------------------------
CL6d    PYKEGMT-----ICKDDKFK------------------------------------------
CL6e    PYKEGMT-----ICKDDKFKPAVHIHSYVDLPAQDEYAMKLSVALMGPVAVGIDAE-NTF
                          157▽                   ▽
CL1     MQYKSGIYNPPSCPGDFSDLDHAVLLVGYGTQ--NGLNYWIVKN-SWSEKWGENGYVRIC
CL2     QFYAGGVYNSVQCHDQEETFDHAMNIVGYGTDEQSGQNYWLVRN-SWGESWGENGYIRIA
CL3     MMYKQGIYKPDECPGQMNDLDHGVLVVGYGSE--NGQDYWIVKN-SWGPDWGESGYIRMA
CL4     RHYKKGVFNSTICDDDPETLDHALTVIGYGTDRVTGQDYWLVRN-SWGSSWGENGYIRIA
CL5     MSYRQGIYENPMARGDRSNLDHAVLCIGYGSE--NGKKYWLVKN-SWSGAWGEQGYIRIA
CL6a    KFYKGGVFNSTMCDDDLATLDHAAVVIGYGNDKITGQDYWLVRN-SWGASWGESGYVRYA
CL6b    RFYKGGVFNSTMCDDDPSTLDHAVVVIGYGTDEVSGQDYWLVRN-SWSASWGESGYMRYA
CL6c    ------------------------------------------------------------
CL6d    ------------------------------------------------------------
CL6e    RFYKGGVFNSTMCHDDPSALDHAVVVIGYGTDEVSGQDYWLVRNNSCGTSWGESGYIRYA
                     205
CL1     RD-GRNLCGVATCASYPLV
CL2     RTTPNNLCGIAERPSYPLV
CL3     RN-SGNLCGIATAASYPLV
CL4     RTNPANLCGITDAASFPLV
CL5     RD-DRNICGVTTLASYPLV
CL6a    RTNPHNLCGITDSASFPLV
CL6b    RTNPHNLCGITDMASFPLV
CL6c    --------------------
CL6d    --------------------
CL6e    RTNPQNLCGITDDASFPLV
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