*Amino acid sequence
** Promotif assigned hairpins
# ECE patterns of17 amino acids (patterns having no, single and double stroked represent predicted hairpin, non-hairpin and rejected by BhairPred)

Color coding:
α-helix
β-sheet
coil

>T0196
ILSKKPAGKVVVEEVVNIMGKDVIIGTVESGMIGVGFKVKGPSGIGGGIVRIERNREKVEFAIAGDRIGISIEGKIGKVKKGD*
GKVVVEEVVNIMGKDVIIGTVESGMIG**   KVKGPSGIGGGIVRIER**
IGGIVRIERNREKV**

~~VIIGTVESGMIGVGFK~~[#]   GGIVRIERNREKVEFAI[#]   ~~ISIEGKIGKVKKGD~~
~~VGFKVKGPSGIGGIVRI~~[#]   EKVEFAIAGDRIGISIE[#]

VLEIYQT*
~~VLE~~[#]

>T0197
SEVEIKFKIKLEDFLHTLNTFNPEFVRYEEQEDVYFEVPRPKLLRIRGVHNLKKYYLTFKEILDENNEEFYEVEFEIGDFEKAVE
EFVRYEEQEDVYFEVPRPKLLRIRGV   KYYLTFKEILDENNEEFYEVEFEI
KLLRIRGVHNLKKYYLTFKEI

EFVRYEEQEDVYFEVP
~~QEDVYFEVPRPKLLRIR~~

VFKRLGFKIQATIKKKRWVYKLNGVTLEVNRVEGIGDFVDIEVISDSPEEAKEKIWEVAKMLGLKEEDVEPRLYLELINEL
            IQATIKKKRWVYKLNGVTLEVNRV
                        VTLEVNRVEGIGDFVDIEVI
        FKIQATIKKKRWVYKLN   LEVNRVEGIGDFVDIEV
            KKRWVYKLNGVTLEVNR

>T0198

NRLLNEKVEEFKKGVLKAGWFIEKMFRNSISSLVERNESLAREVIADEEVVDQMEVEIQEKAMEVLGLFSPIGKPLLTVTAGI
RVAELIENIADKCHDIAKNVLELMEEPPLKPLEDIPAMANQTSEMLKFALRMFADVNVEKSFEVCRMDSKVDDLYEKVREE
LLLYMMESPKYVKRALLLLEIAGNIEIIADYATNIVEVSVYMVQGEAYKCYHDELLFKK
                                        YKCYHDELLL

No ECE pattern found

>T0199

KLNDRQRKVLYCIVREYIENKKPVSSQRVLEVSNIEFSSATIRNDMKKLEYLGYIYQPHTSAGRIPTDKGLRFYYEEMLKISK
                                            IYQPHTSAGRIP
ETSEADLAVETFKSMPLADPEKVLFLAGNLLARLTEGYVLIERPNTRDLKILRVMLIPVSEDYLIFSILTEFGVSKVTPIKTQER
                                        RVMLIPVSEDYLIFSILT
                                            YLIFSILTEFGVSKVTPIK
                YVLIERPNTRDLKILRV   LIFSILTEFGVSKVTPI
                                        RVMLIPVSEDYLIFSIL
LNWEEIERQLNFLLRGRTVGEVLMGKIESLKGSGFLRLIESLIGETVERYLDAGLENLLKDETLTLEDIRNLLEEVKDQKFLES
LVGEGITVRIGREIGRKKLEKFAVFSGKYFKGESPIGSVYLFTSKVTKYDRNHRVFEYILNRLSEYFTSTS
            TVRIGREIGRKKLEKFAVFSGKYFK
                FAVFSGKYFKGESPIGSVYLFTS
            TVRIGREIGRKKLEKFAVFSGKY
                    AVFSGKYFKGESPIGSV

>T0200

MRVLFIGDVFGQPGRRVLQNHLPTIRPQFDFVIVNMENSAGGFGMHRDAARGALEAGAGCLTLGNHAWHHKDIYPMLSED
DIYPMLSED

TYPIVRPLNYADPGTPGVGWRTFDVNGEKLTVVNLLGRVFMEAVDNPFRTMDALLERDDLGTVFVDFHAEATSEKEAMGW
TYPIVRPL   WRTFDVNGEKLTVVNLL   VDFHAEATSEKEAMGW
    IVRPLNYADPGTPGVGWRTFDV   KEAMGW
                    GWRTFDVNGEKLTVVNL

HLAGRVAAVIGTHTHVPTADTRILKGGTAYQTDAGFTGPHDSIIGSAIEGPLQRFLTERPHRYGVAEGRAELNGVALHFEGG
HLAGRVAAVIG   RILKGGTAYQ   TGPHDSIIGSAIEGPLQRFLTERPHRYGVAEGRAELNGVALHFE
         AVIGTHTHVPTADTRIL   AELNGVALHFEGG
             TADTRILKGGTAYQTDA   NGVALHFEGG
                                                             PHRYGVAEGRAELNGVA

KATAAERYRFIED
KATAAERYRFI
KATAAER

>T0201

MIKVTVTNSFFEVTGHAPDKTLCASVSLLTQHVANFLKAEKKAKIKKESGYLKVKFEELENCEVKVLAAMVRSLKELEQK
  IKVTVTNSFFEVT
XMIKVTVTNSFFEVTGH   AKIKKESGYLKVKF
FPSQIRVEVIDNGS

>T0202

MRAAVVYKTDGHVKRIEEALKRLEVEVELFNQPSEELENFDFIVSVGGDGTILRILQKLKRCPPIFGINTGRVGLLTHASPENF
EVELKKAVEKFEVERFPRVSCSAMPDVLALNEIAVLSRKPAKMIDVALRVDGVEVDRIRCDGFIVATQIGSTGYAFSAGGPV
               PRVSCSAMPDVLALNEI   IDVALRVDGVEVDRIRC GFIVATQIGSTGYAFSAGGPV
                    LNEIAVLSRKPAKMIDV   GVEVDRIRCDGFIVATQ
                         MIDVALRVDGVEVDRIR

VEPYLECFILIPIAPFRFGWKPYVVSMERKIEVIAEKAIVVADGQKSVDFDGEITIEKSEFPAVFFKNEKRFRNLFGKVRSIG
VEPYLECFILIPI   IEVIAEKAIVVADGQKSVDFDGEITIEK
        FILIPIAPFRFGWKPYVV   EKAIVVADGQKSVDFDG
          ILIPIAPFRFGWKPYVV   ADGQKSVDFDGEITIEK
                GWKPYVVSMERKIEVIA   EITIEKSEFPAVFFKNE

>T0203

RESPAEHGYYMPAEWDSHAQTWIGWPERQDNWRHNALPAQRVFADVAKAISKFEPVTVCASPAQWENARKQLPED
IRVVEMSMNDSWFRDSGPTFIVRKR!NRNIAGIDWNFNAWGGANDGCYNDWSHDLLVSRKILALERIPR
                    TFIVRKR*NRNIAGIDWN
IRVVEMSMNDSWFRDSGPTFIVRK
                    PTFIVRKR*NRNIAGIDW

FQHSMILEGGSIHVDGEGTCLVTEECLLNKNRNPHMSKEQIEEELKKYLGVQSFIWLPRGLYGDEDTN
                IHVDGEGTCLVT
FQHSMILEGGSIHVDGE
            EGGSIHVDGEGTCLVTE
GHIDNMCCFARPGVVLLSWTDDETDPQYERSVEALSVLSNSIDARGRKIQVIKLYIPEPLYMTEEESSGITQDGEAIP
            CCFARPGVVLLSW
        IDNMCCFARPGVVLLSW   IQVIKLYIPEPLYMTEE
RLAGTRLAASYVNFYIANGGIIAPQFGDPIRDKEAIRVLSDTFPHHSVVGIENAREIVLAGGNIHCITQQQPAEPT
            YIANGGIIAP   PHHSVVGIENAREIVLA
        SYVNFYIANGGIIAPQF   NAREIVLAGGNIHCITQ

>T0204

PELRKDPVTNRWVIFSP!SCPFCIGREQECAPELFRVPDHDPNWKLRVIENLYPALSRNLET!RTIVGFGFHDVVIESPV
 ELRKDPVTNRWVIF   ELFRVPDHDPNWKLRVIE
                   LRVIENLYPALSRNLET*RTIVGFGFHDVVI
                 ~~LRVIENLYPALSRNLET*RTIVG~~
                        ~~LET*RTIVGFGFHDVVIE~~

HSIQLSDIDPVGIGDILIAYKKRINQIAQHDSINYIQVFKNQGASAGASMSHSHSQMMALPVVPPTVSSRLDGTKDYFEE
                   YIQVFKNQGASAGASMSHSHSQMMAL
                   ~~YIQVFKNQGASAGASMSHSHSQMMA~~

TGKCCLCEAKSKHFVIDESSHFVSVAPFAATYPFEIWIIPKDHSSHFHHLDDVKAVDLGGLLKLMLQKIAKQLNDPP
        FVIDESSHFVSVA
          FVSVAPFAATYPFEIWIIP
   ~~CCLCEAKSKHFVIDESS~~
       ~~KHFVIDESSHFVSVAPF~~
          ~~FVSVAPFAATYPFEIWI~~

YNYMIHTSPLKVTESQLPYTHWFLQIVPQLSGVGGFEIGTGCYINPVFPEDVAKVMREVSLT
YNYMIHTSPLKVTESQLPYTHWFLQIVP
  ~~MIHTSPLKVTESQLPYTHWFLQIV~~
           ~~HWFLQIVPQLSGVGGFE~~

>T0205

KNRIQVSNTKKPLFFYVNLAKRYMQQYNDVELSALGMAIATVVTVTEILKNNGFAVEKKIMTSIVDIKDDARGRP
~~KNRIQVSNTKKPLFFYV~~   AVEKKIMTSIVDIKDDARGRP
VQKAKIEITLVKSEKFDELMAAANEEKE
VQKAKIEITLVK

>T0206

SGLGLPAGLYAFNSGGISLDLGINDPVPFNTVGSQFGTAISQLDADTFVISETGFYKITVIANTAT
     PAGLYAFNSGGISLDLG   ISQLDADTFVI
                             ~~ADTFVISETGFYKITVI~~

ASVLGGLTIQVNGVPVPGTGSSLISLGAPIVIQAITQITTTPSLVEVIVTGLGLSLALGTSASIIIEKVAHH
       GLTIQVNGVP
    LGGLTIQVNGVPVPGTG

>T0208

MKWGFRWYGAAGDAIPLKHIRQIPGITGVVGTLLNKLPGDVWTVAEIQALKQSVEQEGLALLGIESVAIHDAIKAGTDQR
DHYIDNYRQTLRNLGKCGISLVCYSFKPIFGWAKTDLAYENEDGSLSLLFDQAVVENMQPEDMYQLIHS!WEEERLQQFQ
                             DLAYENEDGSLSLLFD
               LVCYSFKPIFGWAKTDL
                     PIFGWAKTDLAYENEDG
ELKAMYAGVTEEDLVENLRYFLERVIPVCEEENIKMGIHPDDPPWEIFGLPRITKNLADLKRILSLVDSPANGITFCTGS
LGADPTNDLPTMIREIGHRINFVHFRNVKYLGEHRFEETAHPSVAGSLDMAELMQALVDVGYEGVIRPDHGRAIWDEKAM
                        VKYLGEHRFEE
                    FRNVKYLGEHRFEETAH
PGYGLYDRAMGLTYIQGLYEATKAK

>T0209

MNDLTLSPIAIIHTPYKEKFSVPRQPNLVEDGVGIVELLPPYNSPEAVRGLEQFSHLWLIFQF!VGVFASRATHRPNP
         AIIHTPYKEKFSVPRQPNLVEDGVGIVEL   HLWLIFQF*VGVFASRATHRPNP
    DLTLSPIAIIHTPYKEKFSVPRQPNLVEDGVGIVELL
LGLSKVELRQVECINGNIFLHLGAVDLVDGTPIFDIKPYIAYADSEPNAQSS!VKLTVEFTEQAKSAVKKREEKRPHLSRFI
LGLSKVELRQVECI
LGLSKVELRQVECINGNIFLHLGA
       ELRQVECINGNIFLHLG   FDIKPYIAYADSEPNAQSS*VKLTV
                HLGAVDLVDGTPIFDIK
RQVLE!DRIYGMSLYEFNVKW!AGTVNCVE
          GMSLYEFNVK

>T0211

IDLCLSSEGSEVILATSSDEKHPPENIIDGNPETFWTTTGMFPQEFIICFHKHVRIERLVIQSYFVQTLKIEKSTSKEPVDF
~~XIDLCLSSEGSEVILA~~ VQTLKIEKSTSKEPVDF
~~EVILATSSDEKHPPENIIDGNPETFWTT~~
EQWIEKDLVHTEGQLQNEEIVAHGSATYLRFIIVSAFDHFASVHSVSAEGTVVS
EQWIEKD ~~QNEEIVAHGSATYLRFI~~

>T0212

ALDNSIRVEVKTEYIEQQSSPEDEKYLFSYTITIINLGEQAAKLETRHWIITDANGKTSEVQGAGVVGETPTIPPNTAYQY
IRVEVKTEYIEQQSSPEDEKQSSPEDEK AKLETRHWIITDANGKTSEVQGA
~~EYIEQQSSPEDEKYLFS~~ ~~HWIITDANGKTSEVQ~~ ~~PNTAYQY~~
~~TSEVQGAGVVGETPTIPPNTAYQY~~

TSGTVLDTPFGIMYGTYGMVSESGEHFNAIIKPFRLATPGLLH
FGIMYGTYGMVSESGEHFNAIIKPFRLA
~~T~~
~~TSGTVLDTPF~~ GTYGMVSESGEHFNAII
~~TSGTVLDTPFGIMYGTY~~ ~~SGEHFNAIIKPFRLATP~~

>T0213

MQPNDITFFQRFQDDILAGRKTITIRDESESHFKTGDVLRVGRFEDDGYFCTIEVTATSTVTLDTLTEKHAEQENMTLTE
VLRVGRFEDDGYFCTIEVTATSTV
DGYFCTIEVTATSTVTLDTLTEKHAEQENMTLTE
~~TIRDESESHFKTGDVLR~~
LRVGRFEDDGYFCTIEV

LKKVIADIYPGQTQFYVIEFKCL
LKKVIADIYPGQTQFYVIEFK

>T0214

MEWEMGLQEEFLELIKLRKKKIEGRLYDEKRRQIKPGDVISFEGGKLKVRVKAIRVYNSFREMLEKEGLENVLPGVKSIE

ISFEGGKLKVRVKA

LKVRVKA IRVYNSFREMLEKEGLENVLPGVKSIE

PGDVISFEGGKLKVRVK

EGIQVYRRFYDEEKEKKYGVVAIEIEPLEY

EGIQVYRRFYDEEKEKKYGVVAIEIE

>T0215

RNLSDRAKFESMINSPSKSVFVRNLNELEALAVRLGKSYRIQLDQAKEKWKV

No hairpin found by promotif

No ECE pattern found

>T0216

TFEEFKDRLFALAKKNGVEVQISFLETREFSLRLANGDLDQYTDAGKFNVEIKVLKDGKTGTFRTQVLENPEKCFEEALS

EVQISFLETREFSLRLANGDLDQYTDAGKFNVEIKVLK

DLDQYTDAGKFNVEIKVLKDGKTGTFRT

REFSLRLANGDLDQYTD

GDLDQYTDAGKFNVEIK

VEIKVLKDGKTGTFRTQ

NLQVK!KEYFFEGGKEYREMETYVGRFEKLSVKEKMDMAKKAHESAAKDERVVMVPTVMYKDMVIKKIITNTLGL

VVMVPTVMYKDMVIKKIITNTLGL

KDERVVMVPTVMYKDMV

DVESQMDGGFLFAMAIARDANPRSGSWYELARTPEDLNPEEIGKRAAEEAISLIGSKTIPSGKYPVLMRNTALLDLMEMFIPM
DVESQMDGGFLFAMAIA
DVESQMDGGFLFAMAIARDANPRSGSWYELA
MAIARDANPRSGSWYEL

ISAENVQKNLSPLKGKLGEQVGNPAVSIKDLPYHPKGLSSTPFDDEGVPTTEKFVLENGVLKTFLHNLKTARKEGVEPTGN
IKDLPYHPKGLSSTPFDDEGVPTTEKFVLE
KFVLENGVL
VSIKDLPYHPKGLSSTPFDDEGVPTTEKFVLE
TTEKFVLENGVLKTFLH
GFVGGIRPVNLMLMPGEKSFEELLKEMDRGVVITEVEGMHAGANSISGEFSLFAKGYWVENGEIAHGVEDITISGNFLDLL
GFVGGI
GVVITEVEGMHAGANSISGEFSLFAKGYWVE
EFSLFAKGYWVENGEIAHGVEDITISGN
VVITEVEGMHAGANSISGEFSLFAKGYWVE
FAKGYWVENGEIAHGVE
ENGEIAHGVEDITISGN

RKIVLVGNDVKVSQHTIAPSVLVEVLDVA
KVSQHTIA

>T0222
AAFQIANKTVGKDAPVFIIAEAGINHDGKLDQAFALIDAAAEAGADAVKFQMFQADRMYQKDP!DVSIFSLVQSMEMPAE
AFQIANKTVG
FQIANKTVGKDAPVFII
WILPLLDYCREKQVIFLSTVCDEGSADLLQSTSPSAFKIASYEINHLPLLKYVARLNRPMIFSTAGAEISDVHEAWRTIR
AEGNNQIAIMHCVAKYPAPPEYSNLSVIPMLAAAFPEAVIGFSDHSEHPTEAPCAAVRLGAKLIEKHFTIDKNLPGADHS
FALNPDELKEMVDGIRKTEAELKQGITKPVSEKLLGSSYKTTTAIEGEIRNFAYRGIFTTAPIQKGEAFSEDNIAVLRPG
GIFTTAPIQKGEAFSEDNIAVL
IFTTAPIQKGEAFSEDN
QKGEAFSEDNIAVLRPG

QKPQGLHPRFFELLTSGVRAVRDIPADTGIVWDDILLKD

>T0223

MNIFEAIENRHSVRDFLERKMPERVKDDIENLLVKFITKKLDWKINLSSFPSYIYAKAEKHFDELVEYGFQGEQIVLFLT
KINLSSFPSYIY   QIVLFLT
AQGFGTCWMARSPHPDVPYIIVFGYPRTRNFTRKRRPITSFLENDLEELPPEIVKIVEMTILAPSALNRQPWKIKYTGG
    GTCWMARSPHPDVPYIIVFG   KIKYTGG
AQGFGTCWMA   MTILAPSALNRQPWKIK
    GTCWMARSPHPDVPYII   QPWKIKYTGG
                                                                                    GG

ELCISSERPVDLGIALSHAYLTAREIFKREPVIQKRGEDTYCLILNP
ELCIS   VIQKRGEDTYCLI
ELCISSE
ELCISSERPVDLGIA

>T0224

MALVLVKYGTDHPVEKLKIRSAKAEDKIVLIQNGVFWALEELETPAKVYAIKDDFLARGYSEEDSKVPLITYSEFIDLLEGEE
KFIG
            EKLKIRSAKAEDKIVLI
No hairpin found by promotif

>T0226

MRDLDREETYLVDRTGLALELRDLVGTGPVPGEAYPGPHAALGYGEGQFAALLSGLPDWGEEGTLFLLEGGYDLGEAAGM
        EETYLVDRTGLALELRD
AETGRARVVRVGFRPGVEVHIPPSPLAPYRYLRFLLLATGREEVLRSVDEALLEERRRLGPEVPVEENPAKFLAYTLLERLPL
        ARVVRVGFRPGVEVHIP
FYSPLFRPLEGAVQTLFARVAKSLSLTPPPSALEFFLVGLEARHEQGDPLAAVLLGPGEEAALAKEILESRVDALAEVPATGA
NRLAQVMALWYRMAWTAYYLALLYGVDPGDHGLL

No hairpin found by promotif

>T0227

MERPKLGLIVREPYASLIVDGRKVWEIRRRKTRHRGPLGIVSGGRLIGQADLVGV!PLYAWVLENAFRYEKPLHVP!MFV
GPLGIVSGGRLIGQADLVG
RLIGQADLVGV*PLYAWVLENAFRYEKPLH
RGPLGIVSGGRLIGQAD

DLSEVR

>T0228

MSEPVIKSLLDTDMYKITMHAAVFTNFPDVTVTYKYTNRSSQLTFNKEAINWLKEQFSYLGNLRFTEEEIEYLKQEIPYL
PSAYIKYISSSNYKLHPEEQISFTSEEIEGKPTHYKLKILVSGSWKDTILYEIPLLSLISEAYFKFVDIDWDYENQLEQA
ISFTSEEIEGKPTHYKLKILVSGS
~~ISFTSEEIEGKPTHYKLKILVS~~

EKKAETLFDNGIRFSEFGTRRRRSLKAQDLIMQGIMKAVNGNPDRNKSLLLGTSNILFAKKYGVKPIGTVAHEWVMGVAS
~~GIRFSEFGTRRRRSLKA~~

ISEDYLHANKNAMDCWINTFGAKNAGLALTDTFGTDDFLKSFRPPYSDAYVGVRQDSGDPVEYTKKISHHYHDVLKLPKFS
~~AKNAGLALTDTFGTDDF~~

KIICYSDSLNVEKAITYSHAAKENGMLATFGIGTNFTNDFRKKSEPQVKSEPLNIVIKLLEVNGNHAIKISDNLGKNMGD
FRKKSEPQVKS   IVIKLLEVNGNH
~~NGMLATFGIGTNFTNDF~~   IVIKLLEVNGNHAIKIS
~~NFTNDFRKKSEPQVKSEPLNIVIKLLEV~~

PATVKRVKEELGYTERSW

>T0229

MQARWIGNMMFHVRTDSNHDVLMDTKEEVGGKDAAPRPLELVLTGLMGCTGMDVVSILRKMKVIDQMKDFRIEIEYER
ARWIGNMMFHVR   MKDFRIEIEYER
MFHVRTDSNHDVLM   ~~IEIEYER~~
~~XXMQARWIGNMMFHVRT~~
MMFHVRTDSNHDVLMDT

TEEHPRIFTKVHLKYIFKFDGEPPKDKVEKAVQLSQEKYCSVSAILKCSSKVTYEIVYEN
TEEHPRIFTKVHLKYIFKF
TEEHPRIFTK

>T0230
MSKKVTKEDVLNALKNVIDFELGLDVVSLGLVYDIQIDDQNNVKVLMTMTTPMCPLAGMILSDAEEAIKKIEGVNNVEVE
VYDIQIDDQNNVKVLM
VYDIQIDDQNNVKVLMT

LTFDPPWTPERMSPELREKFGV

>T0231
VVCEVDPELKETLRKFRFRKETNNAAIIMKVDKDRQMVVLEDELQNISPEELKLELPERQPRF
AAIIMKVDKDRQMVVLEDELQ
KFRFRKETNNAAIIMKV
AAIIMKVDKDRQMVVLE

VVYSYKYVHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNRLVQTAELTKVFEIRTTDDLTETWLKEKLAFFR
YVHDDGRVS   KNRLVQTAELTKVFEIR
YSYKYVHDDGRVSYPLC
>T0232
EDGMNTFDLYYWPVPFRGQLIRGILAHCGCSWDEHDVDAIEGLMDCGAEKQPVAFMGPPVLIDRERNFAISQMPAIAIYL
VLIDRERNFAIS
EKQPVAFMGPPVLIDRE
VLIDRERNFAISQMPAIAIYL
IAIYL
GERLDILPATVEGRTLSAKIVNDANDVLDELTLNGGREMWTPEKWQEFVPRLQKWIRIFADTGARNGLSAASGFMLGTEK
GERLDILPATVE
RLDILPATVEGRTLSAK

IGVADIVTAILWTTVADRFPAIKGIIEDTSPIIWGLSRRVVATAPLAALNSKSFEEYGNAYCGGEIEKSLRKVAS

>T0233

SWYLLLQQLIDGESLSRSQAAELMQGWLSEAVPPELSGAILTALNFKGVSADELTGMAEVLQSQSKM!NSPFSIIDTCGT
G!SSTFNISTAVAFVAAAYGVPVAKHGNR!SLTGSADVLEALGVNLGASPEKVQAALQEVGITFLFAPGWHPALKAVATL
RRTLRIRTVFNLLGPLVNPLRPTGQVVGLFTPKLLTTVAQALDNLGKQKAIVLHGRERLDEAGLGDLTDLAVLSDGELQLTTI
                                        KAIVLHGRERLDEAGLGDLTDLAVLS
                                                    TDLAVLSDGELQLTTI
                                        AIVLHGRERLDEAGLGDLTDLAVLS
                                                    TDLAVLSDGELQLTTI
NPQEVGVTPAPIGALRGGDVQENAEILKAVLQGKGTQAQQDAVALNAALALQVAGAVPLLDHAQGVSVAKEILQTGTAW
AKLAQLVYFLGN

>T0234

YAGFIQEFQSAIISTISEQGIPNGSYAPFVIDDAKNIYIYVSGLAVHTKNIEANPLVNVLFVDDEAKTNQIFARRRLSFDCTATLI
            SAIISTISEQGIPNGSYAPFVI   LVNVLFVDDEAKTNQIFARRRLSFDCTATLI
            PNGSYAPFVIDDAKNIYIYV   RLSFDCTATLI
                YAPFVIDDAKNIYIYVS   NVLFVDDEAKTNQIFAR
ERESQKWNQVVDQFQERFGQIIEVLRGLADFRIFQLTPKEGRFVIGFGA
ERESQKWNQVVDQFQERFGQIIEVLRGLADFRIFQLTPKEGRFV
                            FRIFQLTPKEGRFVIGF

>T0235

QFAQLPVGFKNMGNTCYLNATLQALYRVNDLRDMILNYNPSQGVSNSGAQDEEIHKQIVIEMKRCFENLQNK!FKSVLPI
VLLNTLRKCYPQFAERD!FYKQQDAEELFTQLFHSMSIVFGDKFSEDFRIQFKTTIKDTANDNDITVKENESDSKLQCHI
                                          IQFKTTIKDTANDNDITVK   ~~DSKLQCHI~~
                                          ~~QFKTTIKDTANDNDITVKENESDSKLQCH~~

SGTTNFMRNGLLEGLNEK!ANSIYSVEKKISRLPKFLTVQYVRFFWKRSTNKKSKILRKVVFPFQLDVADMLTPEYAAEK
~~SGTTN~~   NEK*ANSIYSVEKKISR   FFWKRSTNKKSK   QLDVADMLTPEYAAEK
            ~~EK!ANSIYSVEKKISRLP~~
                  ~~VEKKISRLPKFLTVQYV~~

VKVRDELRKVEKEKNEK!VMTPREQYETQVALNESEKDQWLEEYKKHFPPNLEKGENPSCVYNLIGVITHQGANSESG
VKVRDELRKVEKEKNEK*VMTPREQYETQVALNESEKDQWLEEYKKHFPPNLEKGENPSCVYNLIGVITHQ
                                                             VYNLIGVITHQGANSESG
                                                                ~~GVITHQGANSESG~~

HYQAFIRDELDENKWYKFNDDKVSVVEKEKIESLAGGGESDSALILMYKGFGL
HYQAFIR   WYKFNDDKVSVV
HYQAFIRDELDENKWYKFN
~~HYQA~~   ENKWYKFNDDKVSVVEK
    QAFIRDELDENKWYKFN

>T0238

ETIASELKAIGKELEDQKKEENIQIAKIAKEKFDFLSTFKVGPYDLIDEDIQMKIKRTLYSSLDYKKENIEKLKEILEIL
KKNSEHYNIIGRLIYHISWGIQFQIEQNLELIQNGVENLSQEESKSLLMQIKSNLEIKQRLKKTLNETLKVYNQNTQDNE
KILAEHFNKYYKDFDTLKPAF
No hairpin by promotif
No hairpin by Bhairpred

>T0239

MKKHIIIKTIPKKEEIISRDLCDCIYYYDNSVICKPIGPSKVYVSTSLENLEKCLQLHYFKKLVKNIEIFDEVH
ICKPIGPSKVYVST
CDCIYYYDNSVICKPIG
DNSVICKPIGPSKVYVS

NSKPNCDKCLIVEIGGVYFVRRVN
CLIVEIGGVYFVRR
DKCLIVEIGGVYFVRRV

>T0240

ASGPRALSRNQPQYPARAQALRIEGQVKVKFDVTPDGRVDNVQILSAKPANMFEREVKNAMRRWRYEPGKPGSGIVVNIL
GQVKVKFDVTPDGRVDNVQILSAK   VVNIL
KVKFDVTPDGRVDNVQI

FKINGTTEIQ
FKINGTTEIQXX

>T0241

PKNVLFQYSTINALMLGQFEGDLTLKDLKLRGDMGLGTINDLDGEMIQMGTKFYQIDSTGKLSELPESVKTPFAVTTHFE
MGLGTINDLDGEMIQM   KFYQIDSTGKLSE
EMIQMGTKFYQI
LDGEMIQMGTKFYQIDS
TKFYQIDSTGKLSELPE
GKLSELPESVKTPFAV
AVTTHFE

PKEKTTLTNVQDYNQLTKMLEEKFENKNVFYAVKLTGTFKMVKARTVPKQTRPYPQLTEVTKKQSEFEFKNVKGTLIGFYT
~~PKEKTTLTNV~~   FYAVKLTGTFKMVKARTVPKQTRPYPQLTEVTKKQSEFEFKNVKGTLIGFYT
                  FYAVKLTGTFKMVKART   SEFEFKNVKGTLIGFYT
                                                ~~PQLTEVTKKQSEFEFKN~~
                                                    ~~KQSEFEFKNVKGTLIGF~~

PNYAAALNVPGFHLHFITEDKTSGGHVLNLQFDNANLEISPIHEFDVQLPHTDDFAHSDLTQVTTSQVHQAESERK
PNYAAALNVPGFHLHFIT
         GFHLHFITEDKTSGGHVLNLQFDNANLEISPI
              ~~LHFITEDKTSGGHVLNL~~
                       HVLNLQFDNANLEISPI

>T0242
GKVFLTNAFSINMLKEFPTTITIDKLDEEDFCLKLELRLEDGTLINAIGHDSTINLVNTLCGTQLQKNRVEVKMNEGD
                       ~~TITIDKLDEEDFCLKLE~~   ~~NRVEVKMNEGD~~
                           ~~LKLELRLEDGTLINAIG~~

EALIIMISQRLEEGKVLSDKEIKDMYRQGKISFYEVW
~~EALIIM~~
EALIIMISQRLEEGKVLSDKEIKDMYRQGKISFYEVW

>T0243
YMRINYYIILKVLVINGSRLEKKRLRSEILKRFDIDISDGVLYPLIDSLIDDKILREEEAPDGKVLFLTEKGMKEFEELHEFFKKI
                                                        LREEEAPDGKVLFL

VC

No ECE pattern detected by Bhairpred

>T0244

KVKKAVIPVAGLGTRMLPATKAIPKEMLPLVDKPLIQYVVNECIAAGITEIVLVTHSSKNSIENHFDTSFELEAMLEKRV

PLVDKP

KRQLLDEVQSICPPHVTIMQVRQGLAKGLGHAVLCAHPVVGDEPVAVILPDVILDEYESDLSQDNLAEMIRRFDETGHS

~~DEPVAVILPDVILDEYE~~

QIMVEPVADVTAYGVVDCKGVELAPGESVPMVGVVEKPKADVAPSNLAIVGRYVLSADIWPLLAKTPPGAGDEIQLTDAID

~~MVEPVADVTAYGVVDCK~~   ~~GVVEKPKADVAPSNLAI~~

~~VVDCKGVELAPGESVPM~~

MLIEKETVEAYHMKGKSHDCGNKLGYMQAFVEYGIRHNTLGTEFKAWLEEEMGIKK

ETVEAYHMKGKSHDCGN

>T0246

MKIAVLPGDGIGPEVVREALKVLEVVEKKTGKTFEKVFGHIGGDAIDRFGEPLPEETKKICLEADAIFLGSVGGPKWDDL

PPEKRPEIGGLLALRKMLNLYANIRPIKVYRSLVHVSPLKEKVIGSGVDLVTVRELSYGVYYGQPRGLDEEKGFDTMIYD

~~DLVTVRELSYGVYYGQPRGLDEEKGFDTMIYD~~

ANIRPIKVYRSLVHVSPLKEKVIGSGVDLVTVRE   GQPRGLDEEKGFDT

RKTVERIARTAFEIAKNRRKKVTSVDKANVLYSSMLWRKVVNEVAREYPDVELTHIYVDNAAMQLILKPSQFDVILTTNM

FGDILSDESAALPGSLGLLPSASFGDKNLYEPAGGSAPDIAGKNIANPIAQILSLAMMLEHSFGMVEEARKIERAVELVI

PSASFGDKNLYEP

EEGYRTRDIAEDPEKAVSTSQMGDLICKKLEEIW

>T0247

QTPLYEQHTLCGARMVDFHGWMMPLHYGSQIDEHHAVRTDAGMFDVSHMTIVDLRGSRTREFLRYLLANDVAKLTKSG

RMVDFHGWMMPLH   ~~DAGMFDVSHMTIVDLRG~~

~~ARMVDFHGWMMPLHYGS~~

KALYSGMLNASGGVIDDLIVYYFTEDFFRLVVNSATREKDLSWITQHAEPFGIEITVRDDLSMIAVQGPNAQAKAATLFNDA

ALYSGMLNASGGVIDDLIVYYFT   ~~FGIEITVRDDLSMIAVQ~~

LYSGMLNASGGVIDDLI
VIDDLIVYYFTEDFFRLVV
DLIVYYFTEDFFRLVVN
NASGGVIDDLIVYYFTE
QRQAVEGMKPFFGVQAGDLFIATTGYTGEAGYEIALPNEKAADFWRALVEAGVKPCGLGARDTLRLEAGMNLYGQEMD
GVQAGDLFIA
GMKPFFGVQAGDLFIAT
LFIATTGYTGEAGYEIALP
LFIATTGYTGEAGYEIA

ETISPLAANMGWTIAWEPADRDFIGREALEVQREHGTEKLVGLVMTEKGVLRNELPVRFTDAQGNQHEGIITSGTFSPTLG
ETISPLAANMGWTIAWE   GLVMTEKGVLRNELPVR
                                     PVRFTDAQGNQHEGIITSGTFS
                                     LPVRFTDAQGNQHEGII
                                     QHEGIITSGTFSPTLG
                                     NQHEGIITSGTFSPTLG
                                     TSGTFSPTLG

YSIALARVPEGIGETAIVQIRNREMPVKVTKPVFVRNGKAVA
YSIALARV   TAIVQIRNREMPVKVT   VRNGKA
YSIALAR   EMPVKVTKPVFVRNGKA
   ALARVPEGIGETAIVQI
         GETAIVQIRNREMPVKV

>T0248
PNQFVNHLSALKKHFASYKELREAFNDYHKHNGDELTTFFLHQFDKVMELVKQKDFKTAQSRCEEELAAPYLPKPLVSFF
QSLLQLVNHDLLEQQNAALASLPAAKIIELVLQDYPNKLNMIHYLLPKTKAFVKPHLLQRLQFVLTDSELLELKRFSFFQ

ALNQIPGFQGEQVEYFNSKLKQKFTLTLGEFEIAQQPDAKAYFEQLITQIQQLFLKEPVNAEFANEIIDAFLVSYFPLHP
                QVEYFNSKLKQKFTLT
                ~~EQVEYFNSKLKQKFTLT~~
PVPLAQLAAKIYEYVSQIVLNEAVNLKDELIKLIVHTLYEQLDRPV

>T0249

MQEQRQQLLRSLEALIFSSEEPVNLQTLSQITAHKFTPSELQEAVDELNRDYEATGRTFRIHAIAGGYRFLTEPEFADLVR
                                                        FRIHAIAGGYRFLT
                                                        RTFRIHAIAGGYRFLTE
QLLAPVIQRRLSRSMLEVLAVVAWHQPVTKGEIQQIRGASPDYSIDRLLARGLIEVRGRADSPGRPLQYGTTEVFLDLFHL
                                                        IEVRGRADSPGRPLQYGT

>T0251

MVVYGADVICASCVNAPTSKDIYDWLQPLLKRKYPNISFKYTYIDITKD!LTDHDLQFIERIEQDELFYPLITMNDEYVAD
                                                        LITMNDEYVAD
GYIQTKQITRFIDQKLVNE

No hairpin by Bhairpred

>T0262

VRLSKTLAGILRHHPGRYGVRLTREGWARVSEVVEGLRKAGWSWVEEWHIVGVALHDPKGRYELRNGEIRARYGHSIPVN
                                                        YELRNGEIRA
                                        PKGRYELRNGEIRARYG
                                        ~~RNGEIRARYGHSIPVN~~
VEPLPGEPPPILYHGTTEEALPLIMERGIMRGRRLKVHLTSSLEDAVSTGRRHGNLVAVLLVDVECLRRRGLKVERMSKT
~~V~~   ERMSKT
                                                        GLKVERMSKT

VYTVDWVPPECIAEVRRESLG
VYTV
VYTVDWV

>T0263

ATLLQLHFAFNGPFGDAMAEQLKPLAESINQEPGFLWKVWTESEKNHEAGGIYLFTDEKSALAYLEKHTARLKNLGVEEV
                                   FLWKVWTESEKNHEAGGIYLF
                                        KVWTESEKNHEAGGIYL

VAKVFDVNEPLSQINQA

>T0264

EAVTLLLVGWGYAPGMQTLEALDAVRRADVVYVESYTMPGSSWLYKSVVEAAGEARVVEASRRDLEERSREIVSRALDA
VVAVVTAGDPMVATTHSSLAAEALEAGVAVRYIPGVSGVQAARGATMLSFYRFGGTVTLPGPWRGVTPISVARRIYLNLC
VVAVVTAGDPMVATTHSS
AGLHTTALLDVDERGVQLSPGQGVSLLLEADREYAREAGAPALLARLPSVLVEAGAGGGHRVLYWSSLERLSTADVEGG
          TALLDVDERGVQLSPGQ   SVLVEAGAGGGHRVLYW
VYSIVIPARLSGVEEWLLAAASGQRRPLEYDRSVYETVEENCKKGVYMEPV

>T0265

MMKEKLESKKDEIRCCYKITDTDVAVLLKMVEIEKPITSEELADIFKLSKTTVENSLKKLIELGLVVRTKT!PKYYYSIS
                                                           VVRTKT*PKYYYSI
                                                        LGLVVRTKT!PKYYYSIS

SNILEKIRNDLLNCAKRMELAAT

>T0266

EKVEEWIKARGLTWRLLIMQKPTRTVAEAAALLGVSESEIVKTLIVLDNAGGVYAVVIPGDKRLNINSMKEL
                                        VKTLIVLDNAGGVYAVVIP
                                     KTLIVLDNAGGVYAVVI
                                             GVYAVVIPGDKRLNINS

AGKPVRLARANEVVELTGYPVGGVPPVALPPNIVLVVDRILLSRKKVYGGGGRENALLEFSPRELVEATGAVVADVSE
~~KPVRLARANEVVELTGY~~   VYGGGGRENALLEF
                    ~~VVELTGYPVGGVPPVALPPNIVLV~~

>T0267

VRIRRAGLEDLPGVARVLVDTWRATYRGVVPEAFLEGLSYEGQAERWAQRLKTPTWPGRLFVAESESGEVVGFAAFGPDR
 RIRRAGLEDLPGVARVLVDTWRATYRGVVPEAFLEGLSYEGQAERWAQRLKTPTWPGRLFVAE   ~~VVGFAAFGPDR~~
                                                      RLFVAESESGEVVGFAAF
                                                      RLFVAESESGEVVGFAA
ASGFPGYTAELWAIYVLPTWQRKGLGRALFHEGARLLQAEGYGRMLVWVLKENPKGRGFYEHLGG
~~ASGFPGYTAELWAIYVL~~
VLLGEREIELGGAKLWEVAYGFDLGGHKW
VLLGEREIELGGAKLWEVAYGFD
  LGEREIELGGAKLWEVA

>T0268

MTHVPVLYQEALDLLAVRPGGVYVDATLGGAGHARGILERGGRVIGLDQDPEAVARAKGLHLPGLTVVQGNFRHLKRHLA
ALGVERVDGILADLGVSSFHLDDPSRGFSYQKEGPLDMRMGLEGPTAKEVVNRLPLEALARLLRELGEEPQAYRIARAIV
AAREKAPIETTTQLAEIVRKAVGFRRAGHPARKTFQALRIYVNDELNALKEFLEQAAEVLAPGGRLVVIAFHSLEDRVVK
RFLRESGLKVLTKKPLVPSEKEAAQNPRARSAKLRAAEKEA
          KVLTKKPLVPSEKEAAQNPRARSAKLRAAE
 No ECE pattern predicted by Bhairpred

>T0269

PGSIPLIGERFPEMEVTTDHGVIKLPDHYVSQGKWFVLFSHPADFTPVCTTEFVSFARRYEDFQRLGVDLIGLSVDSVFS

MEVTTDHGVIKL

PEMEVTTDHGVIKLPDH

GVIKLPDHYVSQGKWFV

HIKWKEWIERHIGVRIPFPIIADPQGTVARRLGLLHAESATHTVRGVFIVDARGVIRTMLYYPMELGRLVDEILRIVKAL

RGVFIVDARGVIRTMLYY

VRGVFIVDARGVIRTML

KLGDSLKRAVPADWPNNEIIGEGLIVPPPTTEDQARARMESGQYRCLDWWFCWDTPASRDDVEEARRYLRRAAEKPAK

RAVPADWPNNEIIGEGLI   CLDWWFCWD

LLYE

>T0271

MELKLIPIEKPENLNVILGQAHFIKTVEDLHEALVTAVPGIRFGLAFSEASGKRLVRRSGTDEALVELAVKNLLNLACGHVF

FGLAFSEASGKRLVRRSG

LIVLGEGFYPINVLHAVKACPEVVRIYAATANPLKVVVAEEGEQRAILGVMDGFTPLGVEDEAEVAWRKDLLRRLGYKL

LKVVVAEEGEQRAILGVMD

>T0272

MWLTKLVLNPASRAARRDLANPYEMHRTLSKAVSRALEEGRERLLWRLEPARGLEPPVVLVQTLTEPDWSVLDEGYAQVF

LWRLEPARGLEPPVVLVQT

LWRLEPARGLEPPVVLV   EGYAQVF

PPKPFHPALKPGQRLRFRLRANPAKRL!KTPAEKVAWLERRLEEGGFRLLEGERGPWVQILQDTFLE!QVQAVLFEGRLEV

PPKPFHPALK   EGERGP VQILQDTFLE*QVQAVLFEGRLEV

KPFHPALKPGQRLRFR   GGFRLLEGERGPWVQIL   E*QVQAVLFEGRLEV

VDPERALATLRRGVGPGKALGLGLLSVAP

VDP

>T0273

PLVLDLARPVSEEELRRLSELNPGYQWERSPEGRLWVSPTGGESGRRSLQLAYQLARWNEERGLGVVFDSSTGFKFPDGS
                        YQWERSPEGRLWVSP   FKFPDGS
                                                                        ~~GVVFDSSTGFKFPDGS~~

ILSPDAAFVERGAWEALSEAEREGFPPLAPKAVFEVRSASQDPEELRAKMGIYLRNGVLLGVLVDPYARAVEVFRPGKPP
IL   AAFVERGAWEALSEAEREGFPPLAPKAVFEV   LGVLVDPYARAVEVF
~~IL~~   AKMGIYLRNGVLLGVLV   AVEVFRPGKPP
                                                                     ~~GKPP~~

LRLEGVERVSLDPELPGFALSLPPLW
LRLE   RVSLDPELPGFALS
~~LRLEGVERVSLDP~~
    ~~GVERVSLDPELPGFALS~~

>T0274

NLEAKKKVLRSFTYGLYVLTAKDGDEVAAGTVNWVTQASFQ!PLVAVGLKRDSHLHALVERTGKLALMTLAHDQKAIAQD
                YVLTAKDGDEVAAGTV   VTQASFQ*PLVAVGLK
              ~~VLTAKDGDEVAAGTVNW~~
                        ~~TVNWVTQASFQ*PLVAVG~~

FFKPTVREGDRLNGHPFEPSPTFGLPLLTELPYWLEAEVRHLYPGGDHSLVVAEVVEAGVRREEKPLVMWDTGWFYG
        REGDRL   HPFEPSPTFGLPLL   YWLEAEVRHLYPGGDHSLVVAEVVEAGV
          RLNGHPFEP

>T0275

FKTILLAYDGSEHARRAAEVAKAEAEAHGARLIVVHAYEPVPDYLGEPFFEEALRRRLERAEGVLEEARALTGVPKEDALLL
EGVPAEAILQAARAEKADLIVMGTRGLGALGSLFLGSQSQRVVAEAPCPVLLV
No hairpin predicted by promotif

>T0276

MTKAELRRRARAAWRRLDLKALSRAVGAALLPWLRERGFRHILLYHPLPHELNLLPLMEAYPARYYLPKVAGKGLTVHPF

RYYLPKVAGKGLTVHP

GPLA!EPTTPPEDPRVLDLVVVPGLAFDREGYRLGHGQGFYDRFLKEVRAATVGVVPQALLFPALPRDPWDVPVD

AFDREGYRL

~~RVLDLVVVPGLAFDREG~~

~~VVVPGLAFDREGYRLGHG~~

HLATEAGVEAVKRP

HLATEAGVEA

>T0277

ASLARAVERLKAALERPKDEFIRDSAIQRFEFTFELAWKTLKTFLELQGLEARSPRAAIRGAFQVGLLPEDPFWLEMLELRNL
TNHTYDEALAERIYAELPKALERFQELLRRLEEP

No hairpin by promotif

>T0279

AVRVAYAGLRRKEAFKALAEKLGFTPLLFPVQATEKVPVPEYRDQVRALAQGVDLFLATTGVGVRDLLEAG
KALGLDLEGPLAKAFRLARGAKAARALKEAGLPPHAVGDGTSKSLLPLLPQGRGVAALQLYGKPLPLLENA
LAERGYRVLPLMPYRHLPDPEGILRLEEALLRGEVDALAFVAAIQVEFLFEGAKDPKALREALNTRVKALAV
GRVTADALREWGVKPFYVDETERLGSLLQGFKRALQKEVA

No hairpin predicted by promotif

>T0280

MRFRDRRHAGALLAEALAPLGLEAPVVLGLPRGGVVVADEVARRLGGELDVVLVRKVGAPGNPEFALGAVGEGGELVLM
~~APVVLGLPRGGVVVADE~~   VRKVGAPGNPEFALGAVG

NPEFALGAVGEGGELVL

~~VLVRKVGAPGNPEFALG~~

~~FALGAVGEGGELVLM~~

PYALRYADQSYLEREAARQRDVLRKRAERYRRVRPKAARKGRDVVLVDDGVATGASMEAALSVVFQEGPRRVVVAVP
VASPEAVERLKARAEVVALSVPQDFAAVGAYYLDFGEVTDEDVEAILLEWAG

>T0281

MWMPPRPEEVARKLRRLGFVERMAKGGHRLYTHPDGRIVVVPFHSGELPKGTFKRILRDAGLTEEEFHNL
                         VERMAKGGHRLYT
                                 HRLYTHPDGRIVVVP
                                 ~~GGHRLYTHPDGRIVVVP~~

>T0282

No hairpin predicted by promotif