T-COFFEE, Version\_9.03.r1542 (2013-04-15 14:45:23 - Revision 1542 - Build 408)  
Cedric Notredame   
SCORE=97  
\*  
 BAD AVG GOOD  
\*  
gi|151108413|re   :  97  
gi|332823960|re   :  97  
gi|297290757|re   :  97  
gi|345778723|re   :  98  
gi|190360739|re   :  97  
gi|27819604|ref   :  97  
gi|61556863|ref   :  97  
gi|56605918|ref   :  97  
gi|50345054|ref   :  97  
gi|18859799|ref   :  96  
gi|158286953|re   :  96  
gi|17557648|ref   :  95  
cons              :  97  
  
gi|151108413|re       1 MSNS-------------------------------------H-PL-RPFTAV-----------   13   
gi|332823960|re       1 ---------------------------------------------------------------    0   
gi|297290757|re       1 ---------------------------------------------------------------    0   
gi|345778723|re       1 ---------------------------------------------------------------    0   
gi|190360739|re       1 MSNS-------------------------------------H-PL-RPFTAV-----------   13   
gi|27819604|ref       1 MSNS-------------------------------------H-PL-RPFTAV-----------   13   
gi|61556863|ref       1 MSNS-------------------------------------H-PL-RPFTAV-----------   13   
gi|56605918|ref       1 MAKNPNFQEVGHLPTGYIHCRPSESFTGYQYHHPSKMS-NSH-PL-RPYTAV-----------   49   
gi|50345054|ref       1 MSDS-------------------------------------H-PL-RPMNSA-----------   13   
gi|18859799|ref       1 MSSQGHHK----------------------------MSGGGKKGA-MEQDYT-----------   23   
gi|158286953|re       1 MSSQSSG-----------------------------MAGSQH-TS-SALARN-----------   21   
gi|17557648|ref       1 MSDN-------------------------------------H-AFGRPIQEDGRGIVETMRTE   25   
  
cons                  1                                                                   63   
  
  
gi|151108413|re      14 ----------------GEIDHVHILSEHIGALLIGEEYGDVTFVVEK-KRFPAHRVILAARCQ   59   
gi|332823960|re       1 ---------------------------------------------------------------    0   
gi|297290757|re       1 ---------------------------------------------------------------    0   
gi|345778723|re       1 ---------------------------------------------------------------    0   
gi|190360739|re      14 ----------------GEIDHVHILSEHIGALLIGEEYGDVTFVVEK-KRFPAHRVILAARCQ   59   
gi|27819604|ref      14 ----------------GEIDHVHILSEHIGALLIGEEYGDVTFVVEK-KHFPAHRVILAARCQ   59   
gi|61556863|ref      14 ----------------GEIDHVHILSEHIGALLIGEEYGDVTFVVEK-KRFPAHRVILAARCQ   59   
gi|56605918|ref      50 ----------------GEIDHVHILSEHIGALMNGEEYSDVTFIVEK-KRFPAHRVILAARCH   95   
gi|50345054|ref      14 ----------------SEIDHLHLLSEQLGALVPGEEYSDVTFVVEE-KRFPAHRVILAARCQ   59   
gi|18859799|ref      24 ----------------DVVDLGDRFSADMARLCMNEQYADVEFIVEE-ERIPAHRVILAARSE   69   
gi|158286953|re      22 ----------------HEIELTARFSEQMAQLCMSADYSDVTFIVEG-QRIPAHRVILAARSE   67   
gi|17557648|ref      26 SAAISNNFNAVNSVNKSVVQHLDELSQSFDEIFTSTDHSDVTLVLDDGTEFAAHRLILAVRSS   88   
  
cons                 64                                                                  126   
  
  
gi|151108413|re      60 YFRALLYGGMRESQPEAEIPLQDTTAEAFTMLLKYIYTGRATLTDEKEEVLLDFLSLAHKYGF  122   
gi|332823960|re       1 MCRALLYGGMRESQPEAEIPLQDTTAEAFTMLLKYIYTGRATLTDEKEEVLLDFLSLAHKYGF   63   
gi|297290757|re       1 MCRALLYGGMRESQPEAEIPLQDTTAEAFTMLLKYIYTGRATLTDEKEEVLLDFLSLAHKYGF   63   
gi|345778723|re       1 ---------MRESQPEAEIPLQDTTAEAFTMLLKYIYTGRATLTDEKEEVLLDFLSLAHKYGF   54   
gi|190360739|re      60 YFRALLYGGMRESQPEAEIPLEDTTAEAFTMLLKYIYTGRATLTDEKEEVLLDFLSLAHKYGF  122   
gi|27819604|ref      60 YFRALLYGGMRESQPEAEIPLQDTTAEAFTMLLRYIYTGRATLTDEKEEVLLDFLSLAHKYGF  122   
gi|61556863|ref      60 YFRALLYGGMRESQPEAEIPLQDTTAEAFTMLLRYIYTGRATLTDEKEEVLLDFLSLAHKYGF  122   
gi|56605918|ref      96 YFRALLYGGMRESQPEAEIPLQDTTAEAFTMLMKYIYTGRATLRDEKEEVLLDFLSLAHKYGF  158   
gi|50345054|ref      60 YFRALLYGGLRESRAQAEVRLEETRAEAFSMLLRYLYTGRATLSEAREETLLDFLGLAHRYGL  122   
gi|18859799|ref      70 YFRALLYGGMAETT-QRQIPLE-VPLEAFKVLLRYIYSGTLLLSTLDEDSTIDVLGMANQYGF  130   
gi|158286953|re      68 YFRALLYGGLQETK-QHEITLN-IPLMAFRCLLKYIYSGSMSLMQMKEEHLLDTLGLANQYGF  128   
gi|17557648|ref      89 FFRAMLYTGFQESH-QQLVTLQETNSVAFRAVLRYMYTSKIDFAGVELDILLEYLSLAHRYDL  150   
  
cons                127          : \*:  :  : \*:     \*\*  :::\*:\*:.   :     :  :: \*.:\*::\*.:  189   
  
  
gi|151108413|re     123 PELEDSTSEYLCTILNIQNVCMTFDVASLYSLPKLTCMCCMFMDRNAQEVLSSEGFLSLSKTA  185   
gi|332823960|re      64 PELEDSTSEYLCTILNIQNVCMTFDVASLYSLPKLTCMCCMFMDRNAQEVLSSEGFLSLSKTA  126   
gi|297290757|re      64 PELEDSTSEYLCTILNIQNVCMTFDVASLYSLPKLTCMCCMFMDRNAQEVLSSEGFLSLSKTA  126   
gi|345778723|re      55 PELEDSTSEYLCTILNIQNVCMTFDVASLYSLPKLTCMCCMFMDRNAQEVLSSEGFLSLSKTA  117   
gi|190360739|re     123 PELEDSTSEYLCTILNIQNVCMTFDVASLYSLPKLTCMCCMFMDRNAQEVLSSEGFLSLSKTA  185   
gi|27819604|ref     123 PELEDSTSEYLCTILNIQNVCMTFDVASLYSLPKLTCMCCMFMDRNAQEVLASDGFLSLSKTA  185   
gi|61556863|ref     123 PELEDSTSEYLCTILNIQNVCMTFDVASLYSLPKLTCMCCMFMDRNAQEVLASDGFLSLSKTA  185   
gi|56605918|ref     159 PELEDSTSEYLCTILNIQNVCMTFDVASLYSLPKLTCMCCMFMDRNAQEVLSSEGFLSLSKAA  221   
gi|50345054|ref     123 QPLEVSICEFLRTLLSTRNVCLVFDVASLYCLNGLAEACMAYMDRNAVEVLKSDGFLTLSKSA  185   
gi|18859799|ref     131 QDLEMAISNYLRQYLALDNVCMILDAARLYNLEELTEVCLMFMDRNAGDLLLHNSFNTLSKES  193   
gi|158286953|re     129 ADLEMAISDYLRQVLSLGNVCAILDAARLFALDGLTAVCHSFMDRNAADILQHESFRHLSLDS  191   
gi|17557648|ref     151 IQLMTAISEYFKEILKNENLCSIFNAAYFFQFTDLIDYCMQYSDKHADQLLEDPSFNRLSGDS  213   
  
cons                190   \*  : .:::   \*   \*:\*  ::.\* :: :  \*   \*  : \*::\* ::\*   .\*  \*\*  :  252   
  
  
gi|151108413|re     186 LLNIVLRDSFAAPEKDIFLALLNWCKHNSK--ENH-AEIMQAVRLPLMSLTELLNVVRPSGLL  245   
gi|332823960|re     127 LLNIVLRDSFAAPEKDIFLALLNWCKHNSK--ENH-AEIMQAVRLPLMSLTELLNVVRPSGLL  186   
gi|297290757|re     127 LLNIVLRDSFAAPEKDIFLALLNWCKHNSK--ENH-AEIMQAVRLPLMSLTELLNVVRPSGLL  186   
gi|345778723|re     118 LLNIVLRDSFAAPEKDIFLALLNWCKHNSK--ENH-AEIMQAVRLPLMSLTELLNVVRPSGLL  177   
gi|190360739|re     186 LLNIVLRDSFAAPEKDIFLALLNWCKHNSN--ENH-AEIMQAVRLPLMSLTELLNVVRPSGLL  245   
gi|27819604|ref     186 LLNIVLRDSFAAPEKDIFLALLNWCKHNAK--ENH-AEIMQAVRLPLMSLTELLNVVRPSGLL  245   
gi|61556863|ref     186 LLNIVLRDSFAAPEKDIFLALLNWCKHNAK--ENH-AEIMQAVRLPLMSLTELLNVVRPSGLL  245   
gi|56605918|ref     222 LLSIVLRDSFAAPEKDIFQALMNWCKHNPK--ENH-AEIMQAVRLPLMSLTELLNVVRPSGLL  281   
gi|50345054|ref     186 LLTVVRRDSFASSEREIFQALCHWCHHNGD--GPEAKEVMSAVRLPLMTLSEMLNVVRPSGLL  246   
gi|18859799|ref     194 LEEVLRRDCFFAPEVQIFLAVWKWSRFNSN--VDF-KSVVSYVRLPLMNLEHLLQVVRPSGIL  253   
gi|158286953|re     192 LCSLLLRDSFFAREVEIFQAVFDWCRCNADTVPNV-DVVVGKVRFELMSLEELLTVVRPSGIL  253   
gi|17557648|ref     214 LKELLARDSFFALELKIFNAVRSWHQNNPTMKEAS-KVLLELVRLPLITQTELLNCVRPTGLV  275   
  
cons                253 \*  :: \*\*.\* : \* .\*\* \*:  \* : \*          ::  \*\*: \*:.  .:\*  \*\*\*:\*::  315   
  
  
gi|151108413|re     246 SPDAILDAIKVRSESRDMDLNYRGMLIPEENIATMKYGAQVVKGELKSALLDGDTQNYDLDHG  308   
gi|332823960|re     187 SPDAILDAIKVRSESRDMDLNYRGMLIPEENIATMKYGAQVVKGELKSALLDGDTQNYDLDHG  249   
gi|297290757|re     187 SPDAILDAIKVRSESRDMDLNYRGMLIPEENIATMKYGAQVVKGELKSALLDGDTQNYDLDHG  249   
gi|345778723|re     178 SPDAILDAIKVRSESRDMDLNYRGMLIPEENIATMKYGAQVVKGELKSALLDGDTQNYDLDHG  240   
gi|190360739|re     246 SPDAILDAIKVRSESRDMDLNYRGMLIPEENIATMKYGAQVVKGELKSALLDGDTQNYDLDHG  308   
gi|27819604|ref     246 SPDAILDAIKVRSESRDMDLNYRGMLIPEENIATMKYGAQVVKGELKSALLDGDTQNYDLDHG  308   
gi|61556863|ref     246 SPDAILDAIKVRSESRDMDLNYRGMLIPEENIATMKYGAQVVKGELKSALLDGDTQNYDLDHG  308   
gi|56605918|ref     282 SPDAILDAIKIRSESRDMDLNYRGMLIPGENIATMKYGAQVVKGELKSALLDGDTQNYDLDHG  344   
gi|50345054|ref     247 SPDDLLDAIQTRSESRDMDLNYRGMLIPEENIATMKHGAVVVKGELKSALLDGDTQNYDLDHG  309   
gi|18859799|ref     254 DPDKILDAIDERSTSKA--LPYRAALWPEENVAAETFLSRCIQGECRDALLDGDVTTYDMENG  314   
gi|158286953|re     254 DPDRLLDAIGEKISSKQ--LPYR----PEENVATPKFNSRTIHGELRSALLDGDTVSYDMEKG  310   
gi|17557648|ref     276 SADTLLDAIEVQTQ-RPHEIPFRGCKSLDTNIIPHYPHAQPLSRELSSRY-------------  324   
  
cons                316 ..\* :\*\*\*\*  :   :   : :\*       \*: .    :  :  \*  .                 378   
  
  
gi|151108413|re     309 FSRHPIDDDC-R-SGIEIKLGQPSIINHIRI-LLWDRDSRSYSYFIEVSMDE---LDWVRVID  365   
gi|332823960|re     250 FSRHPIDDDC-R-SGIEIKLGQPSIINHIRI-LLWDRDSRSYSYFIEVSMDE---LDWVRVID  306   
gi|297290757|re     250 FSRHPIDDDC-R-SGIEIKLGQPSIINHVRI-LLWDRDSRSYSYFIEVSMDE---LDWVRVID  306   
gi|345778723|re     241 FSRHPIDDDC-R-SGIEIKLGQPSIINHIRI-LLWDRDSRSYSYFIEVSMDE---LDWIRVID  297   
gi|190360739|re     309 FSRHPIDDDC-R-SGIEIKLGQPSIINHIRI-LLWDRDSRSYSYFIEVSMDE---LDWIRVID  365   
gi|27819604|ref     309 FSRHPIDDDC-R-SGIEIKLGQPSIINHIRL-LLWDRDSRSYSYFIEVSMDE---LDWIRVID  365   
gi|61556863|ref     309 FSRHPIDDDC-R-SGIEIKLGQPSIINHIRL-LLWDRDSRSYSYFIEVSMDE---LDWIRVID  365   
gi|56605918|ref     345 FSRHPIDDDC-R-SGIEIKLGQPSIINHIRI-LLWDRDSRSYSYYIEVSMDE---LDWIRVID  401   
gi|50345054|ref     310 FSRHPIEEEG-RAAGIQVRLGQPSIVNHIRL-LLWDKDSRSYSYYVEVSMDE---LDWVRVVD  367   
gi|18859799|ref     315 YTRHCITDSK-D-AGIVVELGTFCMINHIRM-LLWDRDSRAYSYYVEVSGDQ---QHWDRVVD  371   
gi|158286953|re     311 YTRHSISETGDS-SGIIVELGKLFIINHIKV-LLWDRDTRSYSYYVEVSVNQ---RNWERIVD  368   
gi|17557648|ref     325 -----TNDEN-I-SVFQIDLGKPFIINTIMMDFNWKNEVQAFTYQVHVSMDNRVDAHWNLVAD  380   
  
cons                379        :     : : : \*\*   ::\* : : : \*..: ::::\* :.\*\* ::    .\*  : \*  441   
  
  
gi|151108413|re     366 HSQYLCRSWQKLYFPARV-----------------------------CRYIRIVGTHNTVNKI  399   
gi|332823960|re     307 HSQYLCRSWQKLYFPARVCSGDGVSLWCPLWSRTPELKQSSLLGLPKCRYIRIVGTHNTVNKI  369   
gi|297290757|re     307 HSQYLCRSWQKLYFPARVCSGDRVSRWCPLWSRTPELKQSSLFGLPKCRYIRIVGTHNTVNKI  369   
gi|345778723|re     298 HSQYLCRSWQKLYFPARV-----------------------------CRYIRIVGTHNTVNKI  331   
gi|190360739|re     366 HSQYLCRSWQKLYFPARV-----------------------------CRYIRIVGTHNTVNKI  399   
gi|27819604|ref     366 HSHYLCRSWQKLYFPARV-----------------------------CRYIRIVGTHNTVNKI  399   
gi|61556863|ref     366 HSHYLCRSWQKLYFPARV-----------------------------CRYIRIVGTHNTVNKI  399   
gi|56605918|ref     402 HSKYLCRSWQNLYFPARV-----------------------------CRYIRIVGTHNTVNKV  435   
gi|50345054|ref     368 HSKFLCRSWQQLYFPARV-----------------------------CRFIRVVGTHNTVNKV  401   
gi|18859799|ref     372 YSDYHCRSWQYLYFEARP-----------------------------VRFIRLVGTQNTVNRV  405   
gi|158286953|re     369 HTKYYCRSWQYLYFPAQA-----------------------------VRYIRLVGTHNTVNKV  402   
gi|17557648|ref     381 YSEYDCRGTQRLFFTDSV-----------------------------VRHIL-IRVNNSMSCK  413   
  
cons                442 ::.: \*\*. \* \*:\*                                  \*.\*  : .:\*::.    504   
  
  
gi|151108413|re     400 FHIVAFECMFTNKTFTLEK--GLIVPMENVATIADCASVIEGVSRSRNALLNGDTKNYDWDSG  460   
gi|332823960|re     370 FHIVAFECMFTNKTFTLEK--GLIVPMENVATIADCASVIEGVSRSRNALLNGDTKNYDWDSG  430   
gi|297290757|re     370 FHIVAFECMFTNKTFTLEK--GLIVPMENVATIADCASVIEGVSRSRNALLNGDTKNYDWDSG  430   
gi|345778723|re     332 FHIVAFECMFTNKTFTLEK--GLIVPMENVATIADCASVIEGVSRSRNALLNGDTKNYDWDSG  392   
gi|190360739|re     400 FHIVAFECMFTNKTFTLEK--GLIVPMENVATIADCASVIEGVSRSRNALLNGDTKNYDWDSS  460   
gi|27819604|ref     400 FHIVAFECMFTNKAFTLEK--GLIVPLENVATIADCASVIEGVSRSRNALLNGDTKNYDWDSG  460   
gi|61556863|ref     400 FHIVAFECMFTNKAFTLEK--GLIAPMENVATIADCASVIEGVSRSRNALLNGDTKNYDWDSG  460   
gi|56605918|ref     436 FHIVAFECMFTNKTFALEK--GLIVPTENVATIADCASVIEGVSRSRNALLNGDTKNYDWDSG  496   
gi|50345054|ref     402 FHLVALECMYTLRPFTLEK--GLLVPTENVATVQACASVVEGVSRSRNALLNGDTSHYDWDSG  462   
gi|18859799|ref     406 FHVVGLEAMHTAKVPRLVN--HFVAPKTNVATVEMSAIVTDGVSRTRNALINGDYVRYDWDSG  466   
gi|158286953|re     403 FHVVALEAMFTESTTPVVD--GILQPAYNVATVERSANVMEGVSRTRNVLLNGDVKNYDWDSG  463   
gi|17557648|ref     414 LEGSRIEAMFSTETMPVEPVHKVIVPHRNITTIENHARVVEGVSRCRNALINGDSSSYDWDTG  476   
  
cons                505 :.   :\*.\*.:     :     .: \*  \*::\*:   \* \* :\*\*\*\* \*\*.\*:\*\*\*   \*\*\*\*:.  567   
  
  
gi|151108413|re     461 YTCHQLGSGAIVVQLAQPYMIGSIRLLLWDCDDRSYSYYVEVSTNQQQWTMVADRTKVSCKSW  523   
gi|332823960|re     431 YTCHQLGSGAIVVQLAQPYMIGSIRLLLWDCDDRSYSYYVEVSTNQQQWTMVADRTKVSCKSW  493   
gi|297290757|re     431 YTCHQLGSGAIVVQLAQPYMIGSIRLLLWDCDDRSYSYYVEVSTNQQQWTMVADRTKVSCKSW  493   
gi|345778723|re     393 YTCHQLGSGAIVVQLAQPYMIGSIRLLLWDCDDRSYSYYVEVSTNQQQWTMVADRTKVSCKSW  455   
gi|190360739|re     461 YTCHQLGSGAIVVQLAQPYMIGSIRLLLWDCDDRSYSYYVEVSTNQQQWTMVADRTKVSCKSW  523   
gi|27819604|ref     461 YTCHQLGSGAIVVQLAQPYIIGSIRLLLWDCDDRSYSYYVEVSTNQQQWTMVADRTKVSCKSW  523   
gi|61556863|ref     461 YTCHQLGSGAIVVQLAQPYMIGSIRLLLWDCDDRSYSYYVEVSTNQQQWTMVADRTKVSCKSW  523   
gi|56605918|ref     497 YTCHQLGSGAIVVQLAQPYMIGSIRLLLWDCDDRSYSYYIEVSTNQQQWTMVADRTKVSCKSW  559   
gi|50345054|ref     463 YTCHQLGSGAIVIQLAQPYMLGSMRLLLWDCDERSYSYYVELSTNQQNWVKIVDRTKDECRSW  525   
gi|18859799|ref     467 YTCHQLGSGEIVVRLGQPYYLGSMRLLLWDCDDRTYSFYIEISTNRKEWQMVVDRRNDRTRSW  529   
gi|158286953|re     464 YTCHQIGTGVILIQLGQPYWIDSLRLLLWDCDNRSYSFYIEVSANMTDWEVVVDKQSDHLKSW  526   
gi|17557648|ref     477 YTCHQIGSGLIMIQLAQPYIISSMRILLWNCDDRFYSYYVAVSKNQDEWVTIVDRTNEECHGW  539   
  
cons                568 \*\*\*\*\*:\*:\* \*:::\*.\*\*\* :.\*:\*:\*\*\*:\*\*:\* \*\*:\*: :\* \*  :\*  :.\*: .   :.\*  630   
  
  
gi|151108413|re     524 QSVTFERQPASFIRIVGTHNTANEVFHCVHFECPEQQSSQKEENS-------------E----  569   
gi|332823960|re     494 QSVTFERQPASFIRIVGTHNTANEVFHCVHFECPEQQSSQKEENS-------------E----  539   
gi|297290757|re     494 QSVSFERQPASFIRIVGTHNTANEVFHCVHFECPEQQSSQKEENS-------------E----  539   
gi|345778723|re     456 QSVTFERQPASFIRIVGTHNTANEVFHCVHFECPEQQSSHKEDSS-------------E----  501   
gi|190360739|re     524 QSVTFERRPASFIRIVGTHNTANEVFHCVHFECPEQQSAQKD-SS-------------D----  568   
gi|27819604|ref     524 QSVTFERQPASFIRIVGTHNTANEVFHCVHFECPEQQSNQKEDSS-------------E----  569   
gi|61556863|ref     524 QSVTFERQPASFIRIVGTHNTANEVFHCVHFECPEQQSTQKEDSS-------------E----  569   
gi|56605918|ref     560 QTITFDKQPASFIRIVGTQNTANEVFHCVHFECPAQSGTHKDEGC-------------K----  605   
gi|50345054|ref     526 QTLTFDRQPASFIRIVGTHNTANEVFHCVHFECPAQMDTVVKEGS-------------P----  571   
gi|18859799|ref     530 QNFHFTPRPVVYIRIVGTRNTANEIFHCVHLECPTQDKNYLKKIADMEKEREKREKEKKTAKT  592   
gi|158286953|re     527 QHFAFQPKVVVYIRIVGTHNTANEMFHCVHFECPSQEPEFLRR-----------ERAIPI---  575   
gi|17557648|ref     540 QELIFDPLPVVYIRLVGTRNSINEVFHVVHLEAPSNVPI------------------------  578   
  
cons                631 \* . \*    . :\*\*:\*\*\*:\*: \*\*:\*\* \*\*:\*.\* :                             693   
  
  
gi|151108413|re     570 ----ESGTGDTSLA-G------------------------------QQLDSHALRAPSGSSLP  597   
gi|332823960|re     540 ----ESGTGDTSLA-G------------------------------QQLDSHALRAPSGSSLP  567   
gi|297290757|re     540 ----ESGTGDTSLA-G------------------------------QQLDSHALRAPSGSSLP  567   
gi|345778723|re     502 ----ESGPGEPG-P-G------------------------------PQLDPHALQAPSGSSLP  528   
gi|190360739|re     569 ----EPGTGGASAA-G------------------------------QQLDPHALQAPSGSSLP  596   
gi|27819604|ref     570 ----EPGTGDPSTP-N------------------------------QQLDPHAPRAPSASSLP  597   
gi|61556863|ref     570 ----EPGTGDLSTP-S------------------------------QQLDPHAPRAPSASSLP  597   
gi|56605918|ref     606 ----EVATTEVGTG-E------------------------------QQLVSRPVRAASTSSLH  633   
gi|50345054|ref     572 ----GPDQPKPETS-S------------------------------QNSYSQSLMAQKP----  595   
gi|18859799|ref     593 DDDNIASTSGSSLASGHAESPSTSSSSSQSVLRSIHWPPQTREVAVAPLTPPALSPPGTPALP  655   
gi|158286953|re     576 -----EASGEESAE-E------------------------------SVVDEAPLRQE------  596   
gi|17557648|ref     579 ---------------------------------------------------------------  578   
  
cons                694                                                                  756   
  
  
gi|151108413|re     598 SSPGSNSRSPNR---------------------------------------------------  609   
gi|332823960|re     568 SSPGSNSRSPNR---------------------------------------------------  579   
gi|297290757|re     568 SSPGSNSRSPNR---------------------------------------------------  579   
gi|345778723|re     529 SSPGSASRSPNR---------------------------------------------------  540   
gi|190360739|re     597 SSPGSNSRSPNR---------------------------------------------------  608   
gi|27819604|ref     598 PSPGPNSRSPNQ---------------------------------------------------  609   
gi|61556863|ref     598 PSPGPNLHSPNQ---------------------------------------------------  609   
gi|56605918|ref     634 SPPGSTLRSH-A---------------------------------------------------  644   
gi|50345054|ref     596 --------SSSS---------------------------------------------------  599   
gi|18859799|ref     656 APLTPATSSPHNNHEQNQPSNISADASHHTSPSSRSNPSPSLSRSRSQSAELEPVPPLVELDT  718   
gi|158286953|re     597 ---------------------------------------------------------------  596   
gi|17557648|ref     579 ---------------------------------------------------------------  578   
  
cons                757                                                                  819   
  
  
gi|151108413|re     610 -QHQ  612   
gi|332823960|re     580 -QHQ  582   
gi|297290757|re     580 -QHQ  582   
gi|345778723|re     541 -QHQ  543   
gi|190360739|re     609 -QHQ  611   
gi|27819604|ref     610 -QNQ  612   
gi|61556863|ref     610 -QNQ  612   
gi|56605918|ref     645 -HQP  647   
gi|50345054|ref     600 -SHT  602   
gi|18859799|ref     719 RETL  722   
gi|158286953|re     597 SVTD  600   
gi|17557648|ref     579 -AIK  581   
  
cons                820       823