```
T-COFFEE, Version_11.00.8cbe486 (2014-08-12 22:05:29 - Revision 8cbe486 - Build 477)
Cedric Notredame
CPU TIME:0 sec.
SCORE=97
*
BAD AVG GOOD
*
C7D2_CD1   :  98
C7D2_CD4   :  96
C7D2_CD6   :  98
C7D2_CD8   :  98
C7D2_CD9   :  98
C7D2_CD11  :  96
C7D2_CD12  :  97
C7D2_CD13  :  98
C7D2_CD14  :  98
C7D2_CD15  :  97
cons       :   9


C7D2_CD1    MT---DNNGKVRPFGIKDKLGYMFGDFGNDFTFLLSAMFLLKFYTDVMGVSAALVGLMMMAARFVDAIT
C7D2_CD4    MK----NDKIVKPFGFKDKIGYMFGDFGNDLTFLLSSSFLMKFYTDVMDVDGYIVGIIMMIARFIDAFT
C7D2_CD6    MT---DNNGKVRPFGIKDKLGYMFGDFGNDFTFLLSAMFLLKFYTDVMGVSAALVGLMMMAARFVDAIT
C7D2_CD8    MT---DNNGKVRPFGIKDKLGYMFGDFGNDFTFLLSAMFLLKFYTDVMGVSAALVGLMMMAARFVDAIT
C7D2_CD9    -------NGKVRPFGIKDKLGYMFGDFGNDFTFLLSAMFLLKFYTDVMGVSAALVGLMMMAARFVDAIT
C7D2_CD11   MR----TNKTIRPFGMRDKIGYLFGDFGNDVMLIFVSQFLMVFYTQVMGMKPAVVGTMFLVSRLVDAFT
C7D2_CD12   MKMGKTNNSTVPAFGMKDRLGYMFGDFGNDFTFILSSMFMMKFYTDVMGLSAGVVGMLMMMAARFVDAFT
C7D2_CD13   MT---DNNGKVRPFGIKDKLGYMFGDFGNDFTFLLSAMFLLKFYTDVMGVSAALVGLMMMAARFVDAIT
C7D2_CD14   MT---DNNGKVRPFGIKDKLGYMFGDFGNDFTFLLSAMFLLKFYTDVMGVSAALVGLMMMAARFVDAIT
C7D2_CD15   MA---NEMKKAAPFGMKDKVGYMFGDFGNDFTFLLSSSFLMKFYTDVMGVNAAIVGMVMMIARFVDAFT

cons             .**:*:**:*******. ::: : *:: ***:* .:. :** ::: :*::**:*


C7D2_CD1    DVTMGQIVDRSRPGKKGKFAPWLRRMCGPVALASFLMYATWFKDMPMGFKIFWMFFTYLLWGSICYTGI
C7D2_CD4    DVAMGRICDKSKMTAAGKFKPWIRRMCGPVAIVSFLMYQSSLSGLPKPAKIAYLFVTYILWGSVFYTSI
C7D2_CD6    DVTMGQIVDRSRPGKKGKFAPWLRRMCGPVALASFLMYATWFKDMPMGFKIFWMFFTYLLWGSICYTGI
C7D2_CD8    DVTMGQIVDRSRPGKKGKFAPWLRRMCGPVALASFLMYATWFKDMPMGFKIFWMFFTYLLWGSICYTGI
C7D2_CD9    DVTMGQIVDRSRPGKKGKFAPWLRRMCGPVALASFLMYATWFKDMPMGFKIFWMFFTYLLWGSICYTGI
C7D2_CD11   DITMGRIVDTAPQGKDGKFKKWIRIMAAPVAIASFLMYQSFLRDYPMIVKIVYMYITYLLYGSICFTGI
C7D2_CD12   DVTMGQIVDRSKPTKDGKFRRMCGPVALASFLIYQSGLADMPYGVKVAYMVVTYLLWGSIFYTSI
C7D2_CD13   DVTMGQIVDRSRPGKKGKFAPWLRRMCGPVALASFLMYATWFKDMPMGFKIFWMFFTYLLWGSICYTGI
C7D2_CD14   DVTMGQIVDRSRPGKKGKFAPWLRRMCGPVALASFLMYATWFKDMPMGFKIFWMFFTYLLWGSICYTGI
C7D2_CD15   DVGMGQIVDHSKPNKDGKFRPWIKRMCGPVAIASFLIYQSGLAGMPYGFKVAWLFVTYILWGSIFYTSI

cons        *: **:* * :     *** *:: *..***:***:* : : .*     *: :: .**:*:**: :*.*


C7D2_CD1    NIPYGSMASAISDNPTDRTSLSNWRTIGATLAQTAIGVVLPLVVYYT---DEAGNSVL--SGQKMMLGA
C7D2_CD4    NIPYGSMASAISDNPNDRQSLSTFRTMGGMFAGAIIMAVVPLIIYNK----ENGNDVI--SGAKFTVVA
C7D2_CD6    NIPYGSMASAISDNPDRTSLSNWRTIGATLAQTAIGVVLPLVVYYT---DEAGNSVL--SGQKMMLGA
C7D2_CD8    NIPYGSMASAISDNPTDRTSLSNWRTIGATLAQTAIGVVLPLVVYYT---DEAGNSVL--SGQKMMLGA
C7D2_CD9    NIPYGSMASAISDNPTDRTSLSNWRTIGATLAQTAIGVVLPLVVYYT---DEAGNSVL--SGQKMMLGA
C7D2_CD11   NIPYGAMASAITDKPDERQSLITFRAMGAYIGEFLIGFFGPLVIYQRIITDEGVQVVIRNNGNIFPVAA
C7D2_CD12   NIPYGSMASAISPDPTDRASLSTWRSVGASLASLVIGTGTPLVAYVT----VDGNPVL--SGSRMTIIA
C7D2_CD13   NIPYGSMASAISDNPTDRTSLSNWRTIGATLAQTAIGVVLPLVVYYT---DEAGNSVL--SGQKMMLGA
C7D2_CD14   NIPYGSMASAISDNPTDRTSLSNWRTIGATLAQTAIGVVLPLVVYYT---DEAGNSVL--SGQKMMLGA
C7D2_CD15   NIPYGSMASAISSDPKDRADLSTWRTIGSTLANMVIGVATPMVAYVV----VDGKTVM--SGSRMTIIA

cons        *****:*****: .* :* .* .:*::*. :.  *    *:: *    : *: .* : : *


C7D2_CD1    LVCSIGAVICYMLCYKMTTERVKVGQN---T-QKFSFGELIKELAHNRSLIGIIVCALVFLLAQLSLSN
C7D2_CD4    GVCSLLAVVCYLLCYALTTERVRAQATDAQL-EKNNLGVMLKNAVKNRALISIIVASIFMLISOLTIQQ
C7D2_CD6    LVCSIGAVICYMLCYKMTTERVKVGQN---T-QKFSFGBLIKELAHNRSLIGIIVCALVFLLAQLSLSN
C7D2_CD8    LVCSIGAVICYMLCYKMTTERVKVGQN---T-QKFSFGELIKELAHNRSLIGIIVCALVFLLAQLSLSN
C7D2_CD9    LVCSIGAVICYMLCYKMTTERVKVGQN---T-QKFSFGELIKELAHNRSLIGIIVCALVFLLAQLSLSN
C7D2_CD11   GGISLIAIVCYYICYTCTTERIKVPAL---SKEGVSFASSVKMIFSNRAMIGILGGTVCLIFGNLLTGG
C7D2_CD12   GVFSVLAVICYLLCYNLVRERVPVPAN---N-QKLDIVALGKSLITNRALLGIIAAALLLLLAMLGMQG
C7D2_CD13   LVCSIGAVICYMLCYKMTTERVKVGQN---T-QKFSFGELIKELAHNRSLIGIIVCALVFLLAQLSLSN
C7D2_CD14   LVCSIGAVICYMLCYKMTTERVKVGQN---T-QKFSFGELIKELAHNRSLIGIIVCALVFLLAQLSLSN
C7D2_CD15   GVFSICAILCYIVCFKLTSERVEVPAS---N-QKISASAIFKSIFTNKALLGIIVAAIFVLLSQLTVLS

cons          *: *::** :*:  . **:  .     :  .   *    *::::*: :: .::. *


C7D2_CD1    MNAYIYPNYFGNIKAMSIA--SLSGTIVIL-LLSTFITKLASKIGKKELSVIGCIISAASFITLFIIHT
C7D2_CD4    MANYVPPNYVGNAKVQSLSVVMMGGGM---VIAAVIAKPLAAFFGKAEISVVSNMVAGVVSLLLYFVRP
C7D2_CD6    MNAYIYPNYFGNIKAMSIA--SLSGTIVIL-LLSTFITKLASKIGKKELSVIGCIISAASFITLFIIHT
C7D2_CD8    MNAYIYPNYFGNIKAMSIA--SLSGTIVIL-LLSTFITKLASKIGKKELSVIGCIISAASFITLFIIHT
C7D2_CD9    MNAYIYPNYFGNIKAMSIA--SLSGTIVIL-LLSTFITKLASKIGKKELSVIGCIISAASFITLFIIHT
C7D2_CD11   VNAYLYAYYFKMPEALSTY--NAIKLGVAL-AMATGVTLVVKKIGRRESISVMAGLASLVFVLLFFLRI
C7D2_CD12   MSAYVFPNVYRSTQAQSVV--ALLSNVAIIAICAPLASKLASKFGKKELATVSCLFGAASYVVCLILHP
C7D2_CD13   MNAYIYPNYFGNIKAMSIA--SLSGTIVIL-LLSTFITKLASKIGKKELSVIGCIISAASFITLFIIHT
C7D2_CD14   MNAYIYPNYFGNIKAMSIA--SLSGTIVIL-LLSTFITKLASKIGKKELSVIGCIISAASFITLFIIHT
C7D2_CD15   LAGYVYPNVYGSAAAQSTA--SLLGTVVMLVVCAPFASKLSAKFGKKELAMGSSIFSALVWLVCLIWRP

cons        :  *::.  :   . *       :  .:  *:*: *        ...  :  : :


C7D2_CD1    HNVWIWIALIIIATIGTSMFNMVIWAMITDVIDESEVQNGVRQDGTIYSVYSFARKLGQACSSGLAGVL
C7D2_CD4    QNVWVYVALQFLCWFGLGVFSMVVWALITDVIDYSEIKNGIREDGSVYALYSFARKLGQALTSGLSGAL
C7D2_CD6    HNVWIWIALIIIATIGTSMFNMVIWAMITDVIDESEVQNGVRQDGTIYSVYSFARKLGQACSSGLAGVL
C7D2_CD8    HNVWIWIALIIIATIGTSMFNMVIWAMITDVIDESEVQNGVRQDGTIYSVYSFARKLGQACSSGLAGVL
C7D2_CD9    HNVWIWIALIIIATIGTSMFNMVIWAMITDVIDESEVQNGVRQDGTIYSVYSFARKLGQACSSGLAGVL
C7D2_CD11   KNPWVYVAISSVGFSGVTFFGYTVWGAIIDVIDDAEIKSGKREDGTLYAIYSFSRKIGQALGSSIVGYA
C7D2_CD12   ENVWVYVIFYVMSFVGLGFFNTIIWAMITDVIDDAEVKNGIREDGTIYAVYSFARKLGQAFSSGMVGGL
C7D2_CD13   HNVWIWIALIIIATIGTSMFNMVIWAMITDVIDESEVQNGVRQDGTIYSVYSFARKLGQACSSGLAGVL
C7D2_CD14   HNVWIWIALIIIATIGTSMFNMVIWAMITDVIDESEVQNGVRQDGTIYSVYSFARKLGQACSSGLAGVL
C7D2_CD15   ASVWGFVACYILANIGMGFFNTIIWAMITDVIDDAEVRNGVREDGTIYSVYSFARKLGQAFSSGLVGAL

cons        . * ::   :   *   .*. .:*. * **** :*::.* *:**::*:;***:**;*** *.: *


C7D2_CD1    LSIVGYTTATAF-DPKVIDGIYNVTCLMPAAGMTLLLLALIFLYPLNKKRVEANAAKLREIRAAKEQQ
C7D2_CD4    LSMIGYKKSTAF-ESQVKEGIFDISTLVPAISFILLALILWFWYPLKKKLVDENVEFLRKKHNKTE-E
C7D2_CD6    LSIVGYTTATAF-DPKVIDGIYNVTCLMPAAGMTLLLLALIFLYPLNKKRVEANAAKLREIRAAKEQQ
C7D2_CD8    LSIVGYTTATAF-DPKVIDGIYNVTCLMPAAGMTLLLLALIFLYPLNKKRVEANAAKLREIRAAKEQQ
C7D2_CD9    LSIVGYTTATAF-DPKVIDGIYNVTCLMPAAGMTLLLLALIFLYPLNKKRVEANAAKLREIRAAKEQQ
C7D2_CD11   LALIGPOSGVKFRCTOPVLNGIYNLATAVRATLRCLVULMFMLVYRLSKKKVMFNARILRLKRPAKN-N
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S7 Figure