```
Tt          1 ---------------------mktrhfdivlaqtlkkq-------------------gigyknslpwrlp--------------nel-knfkkittetkn----------------kg----
Pf          1 mme------------------qvcdvfdiyaicacckveskneggkknevfnnytfrglgnkgvlpwkcnsldmkyfcavttyvnes-kyeklykyrckylnketvdnvndmpnskk----
Pv          1 me-------------------dlsdvfdiyaicacckvaptsegtknepfsprtfrglgnkgtlpwkcn--------------svdmkyfssvttyvde----------------skyekl
Ch          1 ---------------------mseknvsivvaasvlss-------------------giginggl pwsis--------------edl-kffskitnnkcd---------------sn----
Tg          1 ----------------------mqkpvclvvamtp-kr-------------------giginnglpw--p--------------hlt-tdfkhfsrvtkt---------------tp----
Lm          1 msraaarfkipmpetkadfafpslrafsivva--ldmqh-----------------gigdgesipwrvp--------------edm-tffknqttllrn---------------kk----
Tc          1 msl------------------fkirmpetvaegtrlalrafslvvavdehg-----gigdgrsipwnvp--------------edm-kffrdlttklrg---------------kn----
consensus                                r fdIV a t  k                  GIG k sLPW  p                  K Fk  Tt  k                    k

Tt         48 ---------------------------------lq-----------------------------navimgkntwealpkkqqplkdrlnivisttmq---------egqia----dhsy
Pf         98 ---------------------------------lq-----------------------------nvvvmgrtswesipkkfkplsnrinvilsrtlkk--------edfde----dvyi
Pv         73 kwkrerylrmeasqggqdntsggdnthggdnadklq-----------------------------nvvvmgrsswesipkqykplpnrinvvlsktlt---------kedvk----ekvf
Ch         48 ------------------------------------kk-----------------------------nalimgrktw--dsigrrplknriivvissslp---------qdead----pnvv
Tg         44 ---------------------------------------eeasrlngwlprkfaktgdsglpspsvgkrfnavvmgrktwesmprkfrplvdrlnivvssslk---------eedia----aekp
Lm         68 ---------------------------------------pptekkr-----------------------navvmgrktwesvpvkfrplkgrlnivlsskatveellaplpeggraaaaqdvvv
Tc         64 ---------------------------------------vkpspakr-----------------------navvmgrktwdsippkfrplpgrlnvvlsstlt---------tqhll----dglp
consensus                                             lq                            NAV MG  TWE  PkK  PLk RlNiV S t          e   a    d

Tt         92 a---------cks--------------ldsalnfleqqnq---iqdal--viggaklcqqalsdqrlrqihl-------trvgvevecdvfmq----------------------------
Pf        143 i---------nkv--------------ed--livllgkln---yykcf--iiggsvvyqeflekklikkiyf-------trinstyecdvffp----------------------------
Pv        151 i---------ids--------------idd-llllkklk---yykcf--iiggaqvyreclsrnlikqiyf-------tringaypcdvffp----------------------------
Ch         90 v---------frn--------------ledsienlmndds---ienif--vcggesiyrdalkdnfvdriyl-------trvalediefdtyf----------------------------
Tg        117 qaegqqrvrvcas--------------lpaalslleeeyk---dsvdqifvvggaglyeaalslgvashlyi-------trvarefpcdvffpafpgddilsnkstaaqaaapaesvfvp
Lm        130 v---------ngg--------------laealrllarplycssietay--cvgga----qvyadaml------------------spciekl------------------------
Tc        114 d---------eekrnlhadsivavnggleqalrllaspnytpsietvy--cigggsvyaeal---rppcvhllqaiyrttirasesscsvf----------------------------
consensus                s              Ld aL  L       i      viGGa     aLsd     i l       TRv  e  CdVF

Tt        150 --------kdylknfdmievs-----------etqs-----ennl--nydf-------------------------------------------------------------------
Pf        199 --------eineneyqiisvs-----------dvyt-----snnt--tldf-------------------------------------------------------------------
Pv        208 --------efdesqfrvtsvs----------evyn-----skgt--tldflvyskvggvdggasngstatalrrtamrstamrrnvaprtaappmgphsrangeapprararrttpr
Ch        148 --------peipetflpvyms-----------qtfc-----tkni--sydf-------------------------------------------------------------------
Tg        213 fcpelgrekdneatyrpifis-----------ktfs-----dngv--pydfvvlekrrktddaataepsnamsslts-------------------------------------------
Lm        176 --------evyltriyatapa----------ctrffpfppenaa--tawd-------------------------------------------------------------------
Tc        191 --------------frvpesgteaaagiewqretis-----eeltsangne-------------------------------------------------------------------
consensus                  f  i vS           eT s     enn    yDF

Tt        175 -------------------tryfnknyk----------------------------gqvdpslf---kkm-------------------------------------------------
Pf        224 -------------------iiykktnnk----------------------------mlneqnci---kgeeknndmplknddkdtchmkkltefyknvdkykinyendddeeeddfvyfnf
Pv        302 qrkttsctsalttkwgrktrstckilk-----------------------------fttasrl-------------------------------------------------------
Ch        173 -------------------mifekqekktlqncdpargqlksiddtvdllgeifgirkmgnr---hkf-------------------------------------------------
Tg        272 ------------------trettpvhg----------------------------lqapssaa---aia-------------------------------------------------
Lm        206 ------------------lassqgrrk----------------------------seaeglefeickyv-------------------------------------------------
Tc        223 ------------------tky-------------------------------------yfe---kli-------------------------------------------------
consensus                      try  k  K                                     k

Tt        195 ------------------------ykp---------------------------hqeyqylelideiiknghvktdrtgtgtisqfgklmrfdlsksf-pllttknvfwrgvveeliwfi
Pf        296 nkekeeknknsihpndfqiynslykyy----------------------------hpeyqylniiydimmngnkqsdrtgvgvlskfgyimkfdlsqyf-pllttkklflrgiieellwfi
Pv        336 ------------------------mq----------------------------hpeyqylgiiydiimngnkqgdrtgvgvmsnfgymmkfnlseyf-pllttkklflrgiieellwfi
Ch        219 ------------------------pkeeiyntpsirfgre--------------hyefqyldllsrvlengayrenrtgistysifgqmmrfdmresf-pllttkkvairsifeeliwfi
Tg        292 ------------------------pvlawmdeedrkkreqkeliravphvhfrgheefqyldliadiinngrtmddrtgvgviskfgctmrysldqaf-pllttkrvfwkgvleellwfi
Lm        229 ------------------------prn---------------------------heerqylelidrimktgivkedrtgvgtislfgaqmrfslrdnrlpllttkrvfwrgvceellwfl
Tc        232 ------------------------prn---------------------------reeeqylslvdriiregnvkhdrtgvgtlsifgaqmrfslrnnrlpllttkrvfwrgvceellwfl
consensus                               k                            H EyQYL LId Ii NG vk DRTG GtiS FG  MRFdLs  F PLLTTK VFwRGv EEL WFI

Tt        263 kgstnskilsekgvkiwdgngsrefldqlgfknreegdlgpvygfqwrhfgaeykdmhtnykgkgvdqlqdlintikknpdsrrmimnawnvkdlplmalppchvmsqfyv-ndnk--ls
Pf        388 rgetngntllnknvriweangtrefldnrklfhrevndlgpiygfqwrhfgaeytnmydnyenkgvdqlkniinliknpdtsrrillcawnvkdldqmalppchilcqfyv-fdgk--ls
Pv        403 rgetngntllnknvriweangtrefldnrklfhrevndlgpiygfqwrhfgaeytnmhdnyedkgvdqlknvihlikneptsrriilcawnvkdldqmalppchilcqfyv-fdgk--ls
Ch        300 kgdtngnhliekkvyiwsgngskeylerlglghreendlgpiygfqwrhyngeyktmhddytgvgvdqlaklietlknnpkdrrhiltawnpsalsqmalppchvlsqyyvtndnc--ls
Tg        387 rgdtnanhlsekgvkiwdknvtrefldsrnlphrevgdigpgygfqwrhfgaaykdmhtdytgqgvdqlknviqmlrtnptdrrmlmtawnpaaldemalppchllcqfyv-ndqke-ls
Lm        298 rgetsaqlladkdihiwdgngsrefldsrgltenkemdlgpvygfqwrhfgadykgfeanydgegvdqiklivetiktnpndrrllvtawnpcalqkmalppchllaqfyv-ntdtsels
Tc        301 rgetyakklsdkgvhiwddngsrafldsrglteyeemdlgpvygfqwrhfgaeyathhdanydgqgvdqikaivetlktnpddrrmlftawnpsalprmalppchllaqfyv-snge--ls
consensus     G TN   LseKgV IWdgNGsREFLD  g   REe DLGPvYGFQWRHFGAeYk Mh NY GkGVDQL   I tiK NP sRRmi  AWNvkdL  MALPPCH    QFYV nD k  LS

Tt        380 cmmyqrscdmglgipfniasyallthmiaqvtnmqvgefihvlgdahvysnhvdqlkiqlerapypfpllkinnnkqynsiedftledfeligynyhpkiqmkmav
Pf        505 cimyqrscdlglgvpfniasysifthmiaqvcnlqpaqfihvlgnahvynnhidslkiqlnripypfptlk--lnpdikniedftisdftiqnyvhhekismdmaa
Pv        520 cimyqrscdlglgvpfniasysifthmiaqvcnlqpaqfihilgnahvynnhvdslkvqlnripypfptlk--lnpevkniedftisdftienyvhhdkitmemaa
Ch        418 cnlyqrscdlglgspfniasyailtmmlaqvcgyepgelaifigdahiyenhltqlkeqlsrtprpfpqlk--fkrkveniedfkwedieligyypyptikmdmav
Tg        505 cimyqrscdvglgvpfniasyslltlmvahvcnlkpkefihfmgnthvytnhvealkeqlrreprpfpivnilnkerikeiddftaedfevvgyvphgriqmemav
Lm        417 cmlyqrscdmglgvpfniasyalltiliakatglrpgelvhtlgdahvyrnhvdalkaqlervphafptlifkeerqy--ledyeltdmevidyvphpaikmemav
Tc        418 cmlyqrscdmglgvpfniasyalltiliakatglrpgelvhtlgdahvysnhvepcnqlkrvlrpafpyl--vfrrereledyeegdmevidyyppismkmav
consensus    CmmYQRSCDmGLG PFNIASYalLThMIAqVtn q gEfiH LGdAHVY NHVd LK QL R PyPFP Lk   n     IEDFt eDfE igY  HpkI M MAV
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