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Published research using this software should cite
Multiple sequence alignment with hierarchical clustering
F. CORPET, 1988, Nucl. Acids Res., 16 (22), 10881-10890
Symbol comparison table: blosum62
Gap weight: 12
Gap length weight: 2
Consensus levels: high=90% low=50%
Consensus symbols:
! is anyone of IV
\$ is anyone of LM
% is anyone of FY
# is anyone of NDQEBZ

MSF: 7099 Check: 0 ..
Name: India Len: 7099 Check: 2532 Weight: 1.00
Name: Bat Len: 7099 Check: 8330 Weight: 1.00
Name: Consensus Len: 7099 Check: 6967 Weight: 0.00

//

1 180
India MESLVPGFNE KTHVQLSLPV LQVRDVLVRG FGDSVEEVL S EARQHLKDG T CGLVEVEKGV LPQLEQPYVF IKRSDARTAP HGHVMVELVA ELEGIQYGRS GETLGVLVPH VGEIPVAYRK VLLRKNKNKG AGGHSYGADL KSF DLGDELG TDPYEDFQEN WNTKHSSGVT RELMRELNGG
Bat MESLVLGVNE KTHVQLSLPV LQVRDVLVRG FGDSVEEALS EAREHLKNGT CGLVELEKGV LPQLEQPYVF IKRSDALSTN HGHKVVELVA EL DGIQYGRS GITLGVLVPH VGETPIAYRN VLLRKNKNKG AGGHSFGIDL KSYDLGDELG TDP IEDYEQN WNTKHGSGAL RELTRELNGG
Consensus MESLVlGfNE KTHVQLSLPV LQVRDVLVRG FGDSVEEaLS EAR#HLK#GT CGLVElEKGV LPQLEQPYVF IKRSDARsah GHK#mVELVA EL#GIQYGRS GeTLGVLVPH VGEIP!AYRN VLLRKNKNKG AGGHS%GaDL KS%DLGDELG TDPiEDY#n WNTKHgSgaL RELMRELNGG

181 360
India AYTRYVDNNF CGPDGYPLEC IKDLLARAGK ASCTLSEQLD FIDTKRGVYC CREHEHEIAW YTERSEKSYE LQTPFEIKLA KKFDTFN GEC PNFVFP LNSI IKTIQPRVEK KKL DGFMGRI RSVYVPASPN ECNQMLSTL MKCDHCGETS WQTGDFVKAT CEF CGTENLT KEGATTTCGYL
Bat WTRYVDNNF CGPDGYPLEC IKDFLARAGK SMCTLSEQLD YIESKRGVYC CREHEHEIVW FTERSEKSYE HQTPFEIKSA KKFDTFKGEC PKFVFP LNSK VKVIQPRVEK KKT EGFMGRI RSVYVPATPQ ECNDMHLSTL MKCNHCDEVS WQTCDFLKAT CEQCGTENLV CEGPTTCGYL
Consensus ayTRYVDNNF CGPDGYPLEC IKDLLARAGK amCTLSEQLD %I#SKRGVYC CREHEHEIaw %TERSEKSYE hQTPFEIKIa KKFDTFN GEC PnFVFP LNSI !KTIQPRVEK KKL#GFMGRI RSVYVPAS# ECN#mCLSTL MKC#HCDEts WQTCDFlKAT CEQCGTENLT cEGaTTCGYL

361 540
India PQNAVVKIYC PACHNSEVGP EHS LAEYHNE SGLKTILRKG GRTIAFGGCV FSYVGC HNK AYWVPRASAN IGCNHTGVVG EGSEGLNDNL LEILQKEKVN INIVGDFKLN EEIAIVLASF SASTSAFVET VKGLDYKAFK QIVESCNGFK VTGKGA KKGA WNIGEQKSIL SPLYAFASEA
Bat PTNAVVKMPC PACQDPEVGP EHSVADYHNH SNIETRLRKG GRTKCFGGCV FSYVGCYNKR AYWVPRASAN IGA NHTGITG ENVELNEDL LEILNRERVN INIVGDFRFN EEVAILASF SASPSAFIET VKGLDYKSFK VIVESCNGYK VTNGKPV TGA WNIGQQR SIL TPLCGFPSQA
Consensus PqNAVVKIpC PACq#pEVGP EHSIa#YHNE SnieTrLRKG GRTIaFGGCV FSYVGCnKR AYWVPRASAN IgaNHTG!tG EnsEgLn##L LEIL#rErVN INIVGDFrLn EE!AI!LASF SASpSAF!ET VKGLDYKaFk qIVESCNgk VtNgKakKa WNIG#QrSIL sPLCaFaS#a

541 720
India ARVRSIFSR TLETAQNSVR VLQKAAITIL DGISQYSRLR IDAMMFTSDL ATNNLVMMAY ITGGVVQLTS QWLTNIFGT YEKLPKPLDW LEEKFKEGVE FLRDGWEIVK FISTACEIV GGQIVTCAKE IKESVQTFK LVNFKLALCA DSIIIGGAKL KALNLGETFV THSKGLYRKC
Bat AGVRSIFSR TLDAAHNSL DLQRAAVTTL DGISEQLSRL VDMVYVYSDL LTNVVMVMMAY VTGGLVQQT M QWLSNMLGTA VDKLPKPFWT VEA KLSAGVE FLRD AWEILK FLITGVFDVI KGQIQVATDN TKECVKIFLG VVNKALEMCL DQVTIAGTKL RALNLGEVFI AQRGLYRQC
Consensus ArV!RSIFSR Tl#aAn#s!r dlQrAA!TiL DGIS#qSLRL !DAM%TSDL aTnNlVMMAY !TGGlVqTm QWLSniLgTa y#KLKPlDw lEaKlkaGVE FLRDaWEIlK FiiTcac#!! GGQIqtaad# IKEcVqiFlg lVnKaLa\$Ca Dq!iIaGaKl rALNLGETF! aqSrGLYRqC

721 900
India VKSREETGLL MPLKAPKEI FLEGETLPTL VLTEEVVLKT GDLQPLEQPT SEAVEAPLVG TPVCINGLML LEIKDTEKY ALAPNMMVTN NTF LKGGAP TK-VTFGDDT VIEVQGYKSV NITFELDERI DKVLNEKCSA YTVELGTEVN EFACVVADAV IKTLQPVS EL LTPGLIDLDE
Bat IRGKEQLQLL MPLKAPKEVT FLEGD AHD TV LTSEEVVLKS GELEALEPTI DSFTSGAVVG TPVCINGLML LELENKQYV ALSPGLLATN NVFRLKGGAP VKGVTFG EDT VLEVQGYKVN KITFELDRV DKVLNEKCSV YTVESGTEVT EFACVVAEAV VKTLQPVS DL LTPMGIDLDE
Consensus !rgrE#qLlL MPLKAPKEi FLEG#ahdT llSeEVVLKS #G!LaEqPi deateaa!VG TPVCINGLML LEie#kEqY AlaPn\$saTn NtFrLkGGAP tK.VTFG#DT VIEVQGYkVn nITFELDeR! DKVLNEKCSa YTVElGTEVN EFACVVA#AV !KTLQPVS#L LTP\$GIDLDE

901 1080
India WSMATYYLFD ESGEFKLASH MYCSFYPPDE DEEEGDCEEE EFEPSTQY EY GTEDDYQGK P LEFGA-TSAA LQPEEEQ EED WLDDSDSQTV GQDGDSEDNQ TTTIQTIVEV QPQLEMELTP VVQTIEVNSF SGYLKLDNV YIKNADIV EE AKKVKPTVVV NAANVYLKHG GGVAGALNKA
Bat WSVATFYLFD DAGEEKLSSR MYCSFYPPDE EEDCECEDE E--ETCEHEY GTEDDYKGLP LEFGASTETP HV EEEEEED WLDD----- AIEA EPEPE----P LP EE-PVNQF VGYLKLTDNV AIKIDIVKE AQS AKPTVIV NAANTHLKHG GGVAGALNKA
Consensus WSMAT%YlFD #aGeEKLaSr MYCSFYPPDE #E#ce#CE#E E...esc#hEY GTEDDYqGlp LEFGA.Tea hqeEEE#EED WLDD..... -----a!Ea #P#lE....P lp#e.eVnqF sGYLKLTDNV aIKnaDIVE AqkaKPTV!V NAANTHLKHG GGVAGALNKA

1081 1260
India TNNAMQVESD DYIATNGPLK VGGSCVLSGH NLA KHCHLVV GPNV NKGEDI QLLKSAYENF NQHEVLLAPL LSAGIFGADP IHSLRVCVDT VRTNVYLAVF DKNLYDKLVS SFLEMKSEKQ VEQKIAEIPK EEV KPFITES KPSVEQRKQD DKKIKACVEE VTTTLEETKF L TENL LLYID
Bat TNGAMQNESD EYIRQNGPLT VGGSCLLSGH NLA EKCLHVV GPNL NAGEDV QLLKRAYENF NSQDVL LAPL LSAGIFGAKP LQSLKMCVEI VRTQVYLAVN DKS L YDQIVL DYLD SLKPKV ESPNKEE EPK LEEP KAV--- QPVAEKPV DV KPKIKACIDE VTTTLEETKF L TNK LLLFAD
Consensus TnAMQnESD #YIaqNgPlK VGGSClLSGH NLAehCLHVv GPNlNagEd! QLLKrAYENF NqQ#VLLAPL LSAGIFGADp iqSLrmCv#i VRT#VYLAVN DKnLYDqiVl d%L#mLkeKq eeqniaEePk eEekka!... qPsaEqrk#d dkKIKAC!#E VTTTLEETKF LT#nLLL%aD

1261 1440
India INGNLHPSA TLVSDIDITF LK KDAPYIVG DVVQEGVLT A VVIPTKKAGG TTEMLAKALR KVPTDNYITT YPGQGLNGYT VEEAKTVLKK CKSAFYILPS IISNEKQEIL GTVSNWNLREM LAHA EETRKL MPVCVETKAI VSTIQRKYKG IKIQEGVVDY GARFFYFYSK TTVASLINTL
Bat INGLYQDSQ NMLRGEDMSF LEKDAPYIVG DVITSGDITC VIIPAKKSGG TTEMLARALK E V PVAEYITT YPGQGCAGYT LEEAKTALKK CKSAFYV LPS ETPNEKEEVL GTVSNWNLREM LAHA EETRKL MPICLDVRAI MATIQRKYKG IKVQEGIVDY GVRFFYFYSK EPVASIITKL
Consensus INGNLhQdSa n\$lrdeDisF LeKDAPYIVG DVlqeGdiTa V!IPaKkAgG TTEMLaRAlR eVpTa#YITT YPGQGCagYT lEEAKTaLkK CKSAFY!LPS eipNEK#E!L GTVSNWNLREM LAHA EETRKL MP!Cl#trAI maTIQRKYKG IKIQEG!VDY GaRf%FYTSK epVASiInkL

1441 1620
India NDLNETLV TM PLGYVTHGLN LEEAARYMRS LKVPATVSVS SPDAVTAYNG YLTSSSKTPE EHF IETISLA GSYK DWSYSG QSTQLGIEFL KRGDKSVYTT S-NPTTFHLD GEVITFDNLK TLLSLREV RT IKVFTVDNI NLHTQVVDMS MTYGGQFGPT YLDGADVTKI KPHNSHEGKT
Bat NSLNEPLVTM PIGYVTHGLN LEEAARCMS LKAPAVSVS SPDAVTAYNG YLTSSSKTPE EYFVETSLA GSYRDWSYSG RTELGV EFL KRGDKIVYHT TGSPIEFHLD DEVLPLDKK SLLSLREVKT IKVFTVDNT NLHTHIVDMS MTYGGQFGPT YLDGADVTKI KPHVNHEGKT

Consensus	NdLNEpLVTM PiGYVTHGLN LEEAARcMRS LKaPaTvSVS SPDAVtAYNG YLTSSSKTPE EhF!ETiSLA GSYrDwSYSG QrT#LG!EFL KRGDKiVYtH s.nPieFHLd GEViplDnLk sLLSLREvRt IKVFTVDNi NLHtQ!VDMS MYGQQFGPT YLDGADVTKI KPHnnHEGKT	1800
India	FVVLpNDdTL RVEAFeyYHT TDSFSLGRYM SALNHTKKWk YPQvNGLTSI KWADnNCYL A TALLTLQOIE LKFNPALQD AYRARAGEA ANFCALILAY CNKTVGELGD VRETMSYLfQ HANLDSCKRV LNVVCKTCGQ Q0TTLKGVEA VMYMGLTSYE QFKKGvQIPc TCGKQATKYL	
Bat	FFVLPSDDTL RSEAFeyYHT IDESFLGRYM SALNHTKKWk FPOvGGLTSI KWADnNCYLS SVLLALQOvE VKFNAPALQE AYRARAGDA ANFCALILAY SNKTVGELGD VRETMThLLQ HANLESaKRV LNVVCKHCGQ KTTTLKGVEA VMYMGLTSYD ELKTGVSIpc VCGRNATQYL	
Consensus	F%VLpNdDtl RSEAFeyYHT IDESFLGRYM SALNHTKKWk %PQvNGLTSI KWADnNCYL aLLaLqOIE lKfNaPALQ# AYRARAG#A ANFCALILAY cNKTVGELGD VRETMshLlQ HANL#SaKRV LNVVCKHCGQ qqTTLKGVEA VMYMGLTSY# #lKKGvQIPc tCgr#ATQYL	
1801		1980
India	VQqESpFvMM SAPPaQyELK HGTFTcASEY TGNyQCgHYK HITSKETLYC IDGALLTKSS EyKGpITDVF YKENSyTTTI KPVtYKLDGV VcTEIDPKLD NYyKKDnSYF TEQPIDLVpN QPYPNASFDN KfKvCDNIkF ADDLNQLTGY KKPASRELKV TFFPDNGDV VAIDYrHYTP	
Bat	VQqESSFvMM SAPPaEYkLQ QGAFLCANey TGNyQCgHYT HITAKETLYR VDGaHLTKMS EyKGpVTDVF YKETSyTTAI KPYsYKLDGV TyTEIEPKLD GYyKGNAYY TEQPIDLVPT QPMpNASFDN FKLtCSNTKF ADDLNQMTGF KKPASRELTv TFFPDNGDV VAIDYrHYST	
Consensus	VQqESpFvMM SAPPa#yELq qGaFLcANey TGNyQCgHYK HITaKETLYR !DGaHLTKmS EyKGp!TDVF YKEnSYTTaI KPVsYKLDGV tCtEi#PKLD nYyKKDNaY% TEQPIDLVpN QPMpNASFDN FKLtCdNIkF ADDLNQ\$TG% KKPASRELkv TFFPDNGDV VAIDYrHYsp	
1981		2160
India	SFKKGAKLLH KPIVhVhNNA TNKATYKpNT WCIRCLWSTK PVETSNSFDV LKSEDAQGMd NLACEDLKPv SEEVVENPTI QKDVLECNV K TTEVVGDIIL KLANNSLKIT EEVGHDTLMA AYVDNSLTI KKPNELSRVL GLKTLATHGL AAVNSVPWDT IANYAKPFLN KVVSTTTNIV	
Bat	SFKKGAKLVH KPIILWHINQ TNKTTYKpNI WCLRCLWSTK PVDTSNSFEV LVVEDTQGMd NLACESQTTT SEEVVENPTV QKEIECDVK TTEVGVNVL KPSEEGVKVt QELGHEDLMA AYVEETSITI KKPNELSLAL GLKTLATHGA AAINSVPWSK ILAYVKKPFLG QTAVITSNCI	
Consensus	SFKKGAKLlH KPIIWh#nA TNKaTYKpNI WcIRCLWSTK PV#TNSNF#v LKSEDAQGMd NLACedqkpt SEEVVENPT! QK#!iEc#VK TTEVVG#!IL KLa##gIk!T #ELGHEDLMA AYV##sSiTi KKPNELSRaL GLKTLATHGa AA!NSVPWdk IaaYaKpFLn qtasiNSc!	
2161		2340
India	TRCLNRVCTN YMPYfTLLL QLCTFTRSTN SRIKASMPtT IAKNTKvSVG KFCLEASfNY LKSPNFskLI NIIiWfLLS VCLGSLIyST AALGLVMSNL GMPsYCTGYR EGYLNSTNVT IATYCTGSIp CSVCLSGLDs LDTYPSLETI QITISSfKWd LTAfGLVAEv FLAYILfTRf	
Bat	KKCVQRVFSN YMPYVITLLF QLCTFTKSTN SRIKASLPTT IAKNSVKSVA KLCLDVCINy VKSPKfSKLF TiVMWLLLS ICLGSLTYVT AVLGvCLSL GVPsYCDGVR ELYINSNVt TMDfCYGfYp CSVCLSGLDs LdSYPALETI QVtISSYKLD LTFGLAAEv LLAYMLfTKf	
Consensus	KrCl#RvCsN YMPYfiTLLl QLCTFTRSTn SRiKAS\$PTT IAKNSvKSVA KIcL#aciNy lKSPnfSkLI nI!iWlLLS !CLGSLiYst AaLgVc\$Nl GmPSYCDGyR EGYiNSNVt iad%CqSiP CSVCLSGLDs LdsYpaLETI Q!TISS%lD LtAlGLAAEv LLAYILfTRf	
2341		2520
India	FYVlGLAAIM QLFFSYFAVH FISNSLWML IINLVQMAPI SAMVRMYIFF ASFYyWkSY VHVVDGcNS TCmCYKRNR ATRVECTIIV NGVRRSFYVY ANGGKGFCKL HNWNCVNDCT FCAGSTFISD EVARDLSLQF KRPINPDQS SYIVDSVTVK NGSIHLYFDK AGQKTYERHS	
Bat	FYLLGLSAIM QAFFGYFASH FISNSLWMLF IISIVQMAPV SAMVRMYIFF ASFYyWkSY VHMIDGCTSS TCmCYKRNR ATRVECTIIV NGVKRSFYVY ANGGRGfCKA HNWnCLNDCT FCAGSTFISD EVARDLSLQF KRPINPDQS AYVDSVTVK NGALHLyFDK AGQKTYERHP	
Consensus	FYlGLLaIM QaFFgYFAsh FISNSLWMLl IInIvQMAP! SAMVRMYIFF ASFYyWkSY Vh!mDgcNs TCmCYKRNR ATRVECTIIV NGVrRSfYVY ANGGrGfCKa HNWnCLNDCT FCAGSTFISD EVARDLSLQF KRPINPDQS ay!VDSVTVK NGaiHLYFDK AGQKTYERhp	
2521		2700
India	LSHFVNLDNL RANNTKGSLP INVIVFDGKS KCEESAKSA SVYYSQLMCQ PILLLDQALV SDVGDSAEVA VKMFDAYVNT FSSTFNVPME KLKTLVATAE AELAKNVLD NVLSTFISAA RQGFVDSVDE TKDVVECLK SHQSDIEVTG DSCNNYMLTY NKVENMTPRD LGACIDcNAR	
Bat	LSHFVNLDNL RANNTKGSLP INVIVFDGKS KCEESAAKSA SVYYSQLMCQ PILLLDQALV SDVGDSTEVS VKMFDAYVDT FSATFSVPME KLKALVATAH SELAKGVALD GVLSTFVSAA RQGVVDTDVD TKDVIeCLKL SHSDIEVTG DSCNNfMLTY NKVENMTPRD LGACIDcSAR	
Consensus	LSHFVNLDNL RANNTKGSLP INVIVFDGKS KCEESaAKSA SVYYSQLMCQ PILLLDQALV SDVGDSaEva VKMFDAYV#T FSaTfNvPME KlKaLVATAE aELAKnVLD nVLSTfISAA RQGFVDSv# TKDV!ECLKL SHqSDIEVTG DSCNN%MLTY NKVENMTPRD LGACIDcNAR	
2701		2880
India	HINAQVAKSH NIALIWNVKD FMSLSEQLRK QIRSAAKKNN LPFKLTcATT RQVNVVtTK IALKGgKIVN NwLkQLIKVT LVLFVAaIF YLITPVHvMS KHTDFsSEII GyKAIDGGVT RDIASTDTCF ANKHADFDTW FSQRGGsYTN DKACPLIAAV ITREVGfVWP GLPGTILRtT	
Bat	HINAQVAKSH NVSLVWNVKD YMSLSEQLRK QIRSAAKKNN IPFRlTcATT RQVNVVITTK ISLKGgKVVS TwFKLLKkVT LLcVLaALfC YVIMpVhSLS VHDGyTNEII GyKAIDQDGT RDIVSTDDCF ANKHAGFDsw FSQRGGsYrN DKNCpVVAaI ITREIGfIVP GLPGTLrAL	
Consensus	HINAQVAKSH N!aL!WNVKD %MSLSEQLRK QIRSAAKKNN iPFRlTcATT RQVNVV!tTK IaLKGgK!Vn nWlKqLiKVT LlclLaAaIc YlImPVhS\$S kHdd%SnEII GyKAi#dGVT RDIASTDDCF ANKHADFDsw FSQRGGsYrN DkaCpL!AA! ITRE!Gf!VP GLPGT!LRaL	
2881		3060
India	NGDFLHFLPR VFSAVGNICY TPSKLIeyTD FATSACVLA A ECTIFKDAsg KVPVpCYDTN VLEGSvAYES LRPDTRYVLM DGSIIQFPNT YLEGSVRVVT TFDSEYCRHG TCERSEAGVC VSTSGRWVLN NDYyRSLPgV FCGVDANVL TNMFTPLIQP IGALDISASI VAGGIVAIVV	
Bat	NGDFLHFLPR VFSAVGNICY TPSKLIeySD FATSACVLA A ECTIFKDAmG KVPVpCYDTN LLEGSISySE LRPDTRYVLM DGSIIQFPNT YLEGSVRVVT TFDaEYCRHG TCERSEvGVC LSTSGRWVLN NEHYRALpGV FCGVDAMNLI ANIFtPLVQP VGALDVSASV VAGGIIAILV	
Consensus	NGDFLHFLPR VFSAVGNICY TPSKLIeySD FATSACVLA A ECTIFKDAmG KVPVpCYDTN LLEGS!aYee LRPDTRYVLM DGSIIQFPNT YLEGSVRVVT TFDaEYCRHG TCERSEaGVC lSTSGRWVLN n#HYRaLpGV FCGVDAMnLi aNIFtPL!QP !GALD!SAS! VAGG!IAIlV	
3061		3240
India	TCLAYYfMRf RRAFGEySHV VAFNTLLFLM SFTVCLLTPV YSFLPGVYSV IYLYLTfYLT NDVSFLAHiQ WmVMFTPLVP FWITIAyIIC ISTKHfYwFF SNyLKRrVVF NGVsFSTFEE AALCTFLLNK EMYLKLRSDV LLPLTQYnRY LALYNKYKYF SGAMDTTSYR EAACCHLAKA	
Bat	TCAAYYfMkF RRAFGEyNHV VAANALLFLM SFTILCLAPA YSFLPGVYSI FYLYLTfYFT NDVSFLAHlQ WfAMfSPiVP FWITAIyVFC ISLKHfHWFF SNyLKRrVMF NGVTfSTFEE AALCTFLLNK EMYLRLRSEt LLPLTQYnRY LALYNKYKYF SGALDTTSYR EAACCHLAKA	
Consensus	TcAayYfMrF RRAFGEyNHv VaaNaLLFLM SFT!lCLaPa YSFLPGVYS! iYLYLTfYt NDVSFLAHiQ WmaMfSPiVp FWITaaY!iC ISlKHfHWff SNyLKRrVmF NGVsFSTFEE AALCTFLLNK EMYLrLRS#t LLPLTQYnRY LALYNKYKYF SGA\$DTTSYR EAACCHLAKA	
3241		3420
India	LNDfSNsGSd VLYQPpQTSI TSAVLQSGFR KMAFPsGKVE GCMVQVtCGT TTLNGLWLDd VYyCPRHVIC TSEDMLNPny EDLLIRKSNH nFLVQAGNVQ LRVIGHsMQN CVLKLKVDTA NPkTPKYKfV RIQPGQTFsV LAcYNGSPsG VYQcAMPnF TIKGSfLNGS CGSVGFNIIDY	
Bat	LNDfSNsGAd VLYQPpQTSI TSAVLQSGFR KMAFPsGKVE GCMVQVtCGT TTLNGLWLDd TvYyCPRHvVC TAEDMLNPny DDLLIRKSNH SFLVQAGNVQ LRVIGHsMQN CLlRLKVDTs NPkTPKYKfV RIQPGQTFsV LAcYNGSPsG VYQcAMPnH TIKGSfLNGS CGSVGFNIIDY	
Consensus	LNDfSNsGaD VLYQPpQTSI TSAVLQSGFR KMAFPsGKVE GCMVQVtCGT TTLNGLWLDd tVYyCPRH!Vc TaEDMLNPny #DLlIRKSNH nFLVQAGNVQ LRVIGHsMQN ClLrLKVDTa NPkTPKYKfV RIQPGQTFsV LAcYNGSPsG VYQcAMPnH TIKGSfLNGS CGSVGFNIIDY	
3421		3600
India	DCVSfCYMHh MELPTGVHAG TDLEGNfYGP FVDRQTAQAA GTDTTITVNV LAWLYAAVIN GDRWFLNRFt TTLNDfNLVA MKYNYEPLTQ DhVDILGpLS AQTGIAVLDM CASLKELLQn GMNGRTILGS ALLEDEFTPF DVVRQCSGVt FQSAVkrTIK GTHHWLLTI LtsLLLVlVQS	
Bat	DCVSfCYMHh MELPTGVHAG TDLEGFYGP FVDRQTAQAA GTDTTITLNV LAWLYAAVIN GDRWFLNRFt TTLNDfNLVA MKYNYEPLTQ DhVDILGpLS AQTGIAVLDM CAALKELLQn GMNGRTILGS TlLEDEFTPF DVVRQCSGVt FQgKfKkIVK GTHHWLLTF LtsLLlLVQS	
Consensus	DcVSfCYMHh MELPTGVHAG TDLEgnfYGP FVDRQTAQAA GTDTTIT!NV LAWLYAAVIN GDRWFLNRFt TTLNDfNLVA MKYNYEPLTQ DhVDILGpLS AQTGIAVLDM CaALKELLQn GMNGRTILGS aIlLEDEFTPF DVVRQCSGVt FQgafKri!K GTHW\$LLTI LtsLL!LVQS	
3601		3780
India	TQwSLFFFLY ENAFLPfAMG IIAmSAfAMM FVKHKHAFLC LFLPLSLATV AYfNMVYMPA SWVMRIMTWL DMVDTSLSGf KLKDCVMYAS AVVLLILMTA RTVYDDGARR VNTLMNVLTl VYKYVYGNAL DQAIsmWALI ISVTSNSYSGV VTTVMFLARG IVfMcvEYcP IFFITGNTLQ	
Bat	TQwSLFFfVY ENAFLPfALG IMAVAACAML LVKHKHAFLC LFLPLSLATV AYfNMVYMPA SWVMRIMTWL ELADTSLSGf RlKDCVMYAS ALVLLILMTA RTVYDDAARR VNTLMNVITL VYKYVYGNsL DQAIsmWALV ISVTSNSYSGV VTTIMFLARA IVfVcVEYyP LLfITGNTLQ	
Consensus	TQwSLFFFLY ENAFLPfA\$G IiAmAcAM\$ lVKhKHAFLC LFLPLSLATV AYfNMVYMPA SWVMRIMTWL #\$aDTSLSGf rLKDCVMYAS AlVLLILMTA RTVYDDAARR VNTLMNVITL VYKYVYGNAL DQAIsmWAl! ISVTSNSYSGV VTT!MFLARA IVfMcvEYcP ilfITGNTLQ	
3781		3960
India	CIMLVYCFLG YfCTCYGfLF CLLNRYfRLT LGVYDYLVST QEFryMNSQg LPPKNSIDA FKLNIKLLG GgKPCIKVAT VQSKMSDVK TSVVLLSVLQ QLRVessSkL WAQCvQLHND ILLAKDTTEA FEKMSLlSV LLSMQGAVDI NKLCeeMLDN RATLQAIASE FSSLSYAAf	
Bat	CIMLVYCFLG YCCcCYGfLF CLLNRYfRLT LGVYDYLVST QEFryMNSQg LPPKSSIDA FKLNIKLLG GgKPCIKVAT VQSKMSDVK TSVVLLSVLQ QLRVessSkL WAQCvQLHND ILLAKDTTEA FEKMSLlSV LLSMQGAVDI NKLCeeMLDN RATLQAIASE FSSLSYAAf	
Consensus	CIMLVYCFLG YcCcCYGfLF CLLNRYfRLT LGVYDYLVST QEFryMNSQg LPPKNSIDA FKLNIKLLG! GgKPCIKVAT VQSKMSDVK TSVVLLSVLQ QLRVessSkL WAQCvQLHND ILLAKDTTEA FEKMSLlSV LLSMQGAVDI NKLCeeMLDN RATLQAIASE FSSLSYAA%	
3961		4140

India	ATAQEAYEQA	VANGDSEVVL	KLKKSLNVA	KSEFDRAAM	QRKLEKMAQD	AMTQMYQAR	SEDKRAKVT	AMQTMFLTML	RKLDNDALNN	IINNARDGCV	PLNIIPLTTA	AKLMVVPDY	NTYKNTCDGT	TFTYASALWE	IQQVVDADSK	IVQLSEISMD	NSPNLAWPLI	VTALRANSVA
Bat	ATAQEAYEQA	VANGDSEVVL	KLKKSLNVA	KSEFDHDAAM	QRKLEKMAQD	AMTQMYQAR	SEDKRAKVT	AMQTMFLTML	RKLDNDALNN	IINNARDGCV	PLNIIPLTTA	AKLMVVPDY	GTYKNTCDGN	TFTYASALWE	IQQVVDADSK	IVQLSEINMD	NSPNLAWPLI	VTALRANSVA
Consensus	ATAQEAYEQA	VaNgDSEVVL	KLKKSLNVA	KSEFDraAM	QRKLEKMAQD	AMTQMYQAR	SEDKRAKVT	AMQTMFLTML	RKLDNDALNN	IINNARDGCV	PLNIIPLTTA	AKLMVVPDY	nTYKNTCDGN	TFTYASALWE	IQQVVDADSK	IVQLSEInMD	NSPNLAWPLI	VTALRANSVA
4141																		
India	KLQNNELSPV	ALRQMSCAAG	TTQACTDDN	ALAYYNTTKG	GRFVLALLSD	LQDLKWARFP	KSDGTGTIYT	ELEPPCRFVT	DTPKGPKVKY	LYFIKGLNLL	NRGMVLGSLA	ATVRLQAGNA	TEVPANSTVL	SFCAFAVDAa	KAYKDYLASG	GQPITNCVKM	LCTHTGTGQA	ITVTPEANMD
Bat	KLQNNELSPV	ALRQMSCAAG	TTQACTDDN	ALAYYNAKGG	GRFVLALLSD	HQDLKWARFP	KSDGTGTIYT	ELEPPCRFVT	DTPKGPKVKY	LYFIKGLNLL	NRGMVLGSLA	ATVRLQAGNA	TEVPANSTVL	SFCAFAVDAa	KAYKDYLASG	GQPITNCVKM	LCTHTGTGQA	ITVTPEANMD
Consensus	KLQNNELSPV	ALRQMSCAAG	TTQACTDDN	ALAYYnAKGG	GRFVLALLSD	hQDLKWARFP	KSDGTGTIYT	ELEPPCRFVT	DTPKGPKVKY	LYFIKGLNLL	NRGMVLGSLA	ATVRLQAGNA	TEVPANSTVL	SFCAFAVDAa	KAYKDYLASG	GQPITNCVKM	LCTHTGTGQA	ITVTPEANMD
4321																		
India	QESFGGASCC	LYCRCHIDHP	NPKGFCDLKG	KYVQIPTTCA	NDPVGFTLRN	TVCTVCGMWK	GYGCSQDLR	EPMLQSADAQ	SFLNRVCGVS	AARLTPCGTG	TSTDVVYRAF	DIYNDKVAGF	AKFLKTNCCR	FQEKDEDDNL	IDSYFVVKRH	TFSNYQHEET	IYNLLKDCPA	VAKHDFKFR
Bat	QESFGGASCC	LYCRCHIDHP	NPKGFCDLKG	KYVQIPTTCA	NDPVGFTLRN	TVCTVCGMWK	GYGCSQDLR	EPMQSADAS	TFLNRVCGVS	AARLTPCGTG	TSTDVVYRAF	DIYNEKVAGF	AKFLKTNCCR	FQEKDEEGLN	LDSYFVVKRH	TMSNYQHEET	IYNLLKCECPA	VAVHDFKFR
Consensus	QESFGGASCC	LYCRCHIDHP	NPKGFCDLKG	KYVQIPTTCA	NDPVGFTLRn	TVCTVCGMWK	GYGCSQDLR	EPm\$QADaQ	sFLNRVCGVS	AARLTPCGTG	TSTDVVYRAF	DIYn#KVAGF	AKFLKTNCCR	FQEKDE#dNL	iDSYFVVKRH	TmSNYQHEET	IYNLLk#CPA	VAKHDFKFR
4501																		
India	IDGDMVPHIS	RQRLTKYTMA	DLVYALRHF	EGNCDLKEI	LVTYNCCDD	YFNKDKWYDF	VENPDILRVY	ANLGERVRA	LLKTVQFCDA	MRNAGIVGL	TLDNQDLNGN	WYDFGDFIQ	TPGSGVPPVD	SYSSLMPIL	TLTRALAE	HVDTLTKPY	IKWDLKDYF	TEERLKLDFR
Bat	VDGDMVPHIS	RQRLTKYTMA	DLVYALRHF	EGNCDLKEI	LVTYNCCDD	YFNKDKWYDF	VENPDILRVY	ANLGERVRA	LLKTVQFCDA	MRDAGIVGL	TLDNQDLNGN	WYDFGDFVQ	APGCGVPIVD	SYSSLMPIL	TLTKALAE	HMDADLAKPL	VKWDLLKDYF	TEERLCLDFR
Consensus	IDGDMVPHIS	RQRLTKYTMA	DLVYALRHF	EGNCDLKEI	LVTYNCCDD#	YFNKDKWYDF	VENPD!LRVY	ANLGERVRA	LLKTVQFCDA	MR#AGIVGL	TLDNQDLNGN	WYDFGDF!Q	aPgcVGP!VD	SYSSLMPIL	TLTRaLAe	HmDaDLAKP!	!KWDLKDYF	TEERLcLDFR
4681																		
India	YFKYWDQTYH	PNCVCLDDR	CILHCANFV	LFSTVFPPTS	FGPLVRKIFV	DGVPFVSTG	YHFRELGVH	NQDVNLHSSR	LSFKELLVYA	ADPAMHAASG	NLLLDKRTTC	FVSAALTNV	AFQTVKPGNF	NKDFYDFAVS	KGFFEKGSV	ELKHFFFAQD	GNAAISDYDY	YRYNLPMTCD
Bat	YFKYWDQTYH	PNCINCLDDR	CILHCANFV	LFSTVFPPTS	FGPLVRKIFV	DGVPFVSTG	YHFRELGVH	NQDVNLHSSR	LSFKELLVYA	ADPAMHAASG	NLLLDKRTTC	FVSAALTNV	AFQTVKPGNF	NKDFYDFAVS	KGFFEKGSV	ELKHFFFAQD	GNAAISDYDY	YRYNLPMTCD
Consensus	YFKYWDQTYH	PNC!NCLDDR	CILHCANFV	LFSTVFPPTS	FGPLVRKIFV	DGVPFVSTG	YHFRELGVH	NQDVNLHSSR	LSFKELLVYA	ADPAMHAASG	NLLLDKRTTC	FVSAALTNV	AFQTVKPGNF	NKDFYDFAVS	KGFFEKGSV	ELKHFFFAQD	GNAAISDYDY	YRYNLPMTCD
4861																		
India	IRQLLFVVEV	VDKYFDCYDG	GCINANQVIV	NNLDKSAGFP	FNKGWKRLY	YDSMSYEDQD	ALFAYTKRNV	IPTITQMNLK	YAISAKNRAR	TVAGVSICT	MTNRQFHQKL	LKSIAATRGA	TVVIGTSKFY	GGWHNMLKTV	YSDVENPHLM	GWDYPKCDRA	MPNMLRIMAS	LVLARKHSTC
Bat	IRQLLFVVEV	VDKYFDCYDG	GCINANQVIV	NNLDKSAGFP	FNKGWKRLY	YDSMSYEDQD	ALFAYTKRNV	IPTITQMNLK	YAISAKNRAR	TVAGVSICT	MTNRQFHQKL	LKSIAATRGA	TVVIGTSKFY	GGWHNMLKTV	YSDVSPHLM	GWDYPKCDRA	MPNMLRIMAS	LVLARKHSTC
Consensus	IRQLLFVVEV	VDKYFDCYDG	GCINANQVIV	NNLDKSAGFP	FNKGWKRLY	YDSMSYEDQD	ALFAYTKRNV	IPTITQMNLK	YAISAKNRAR	TVAGVSICT	MTNRQFHQKL	LKSIAATRGA	TVVIGTSKFY	GGWHNMLKTV	YSDVenPHLM	GWDYPKCDRA	MPNMLRIMAS	L!LARKHSTC
5041																		
India	CSLSHRFYRL	ANEAQVLS	MVMCGGSLYV	KPGGTSSGDA	TTAYANSVFN	ICQAVTANVN	ALLSTDGNKI	ADKYVRNLQH	RLYECLYRNR	DVDHDFVNEF	YAYLRKHFSM	MILSDDAVVC	FNSTYASQGL	VASIKNFKAV	LYYQNVFMS	EAKCWTETDL	TRGPHEFCSQ	HTMLVKQGD
Bat	CNLSHRFYRL	ANEAQVLS	MVMCGGSLYV	KPGGTSSGDA	TTAYANSVFN	ICQAVTANVN	ALLSTDGNKI	ADKYVRNLQH	RLYECLYRNR	DVDHEFVDFE	YAYLRKHFSM	MILSDDAVVC	YNSNYAAQGL	VASIKNFKA	LYYQNVFMS	EAKCWTETDL	TRGPHEFCSQ	HTMLVKQGD
Consensus	CnLSHRFYRL	ANEAQVLS	MVMCGGSLYV	KPGGTSSGDA	TTAYANSVFN	ICQAVTANVN	ALLSTDGNKI	ADKYVRNLQH	RLYECLYRNR	DVDh#FV#EF	YAYLRKHFSM	MILSDDAVVC	%SnYaQGL	VASIKNFKa	LYYQNVFMS	EAKCWTETDL	TRgPHEFCSQ	HTMLVKQGD
5221																		
India	YVYLPYPDPS	RILGAGCFVD	DIVKTDGML	IERFVSLAID	AYPLTKHPNQ	EYADVFLHLY	QYIRKLHDEL	TGHMLDMYSV	MLTNDNSTRY	WEPEFEYAMY	TPHTVLQAVG	ACVLCNSQTS	LRCGACIRRP	FLCCKCCYDH	VISTSHKLV	SNVPYVCNAP	GCDVDTVTQL	YLGGMSSYCK
Bat	YVYLPYPDPS	RILGAGCFVD	DIVKTDGML	IERFVSLAID	AYPLTKHPNQ	EYADVFLHLY	QYIRKLHDEL	TGHMLDMYSV	MLTNDNSTRY	WEPEFEYAMY	TPHTVLQAVG	ACVLCNSQTS	LRCGACIRRP	FLCCKCCYDH	VISTSHKLV	SNVPYVCNAP	GCDVDTVTQL	YLGGMSSYCK
Consensus	YVYLPYPDPS	RILGAGCFVD	DIVKTDGML	IERFVSLAID	AYPLTKHPNQ	EYADVFLHLY	QYIRKLHDEL	TGHMLDMYSV	MLTNDNSTRY	WEPEFEYAMY	TPHTVLQAVG	ACVLCNSQTS	LRCGACIRRP	FLCCKCCYDH	VISTSHKLV	SNVPYVCNAP	GCDVDTVTQL	YLGGMSSYCK
5401																		
India	SHKPPISFPL	CANGQVFLY	KNTCVGSDNV	TDNFNAIATCD	WTNAGDYILA	NTCTERLKL	AAETLKATEE	TFKLSYGIAT	VREVLSDREL	HLSWEVKGPR	PPLNRNYVFT	GYRVTKNSKV	QIGEYTFEKG	DYGDVAVYRG	ITTYKLNVD	YFVLTSTVM	PLSAPTLVPQ	EHYVRITGLY
Bat	SHKPPISFPL	CANGQVFLY	KNTCVGSDNV	TDNFNAIATCD	WTNAGDYILA	NTCTERLKL	AAETLKATEE	TFKLSYGIAT	VREVLSDREL	YLSWEVKGPR	PPLNRNYVFT	GYRVTKNSKV	QIGEYTFEKG	DYGDVAVYRG	ITTYKLNVD	YFVLTSTVM	PLSAPTLVPQ	EHYVRITGLY
Consensus	SHKPPISFPL	CANGQVFLY	KNTCVGSDNV	TDNFNAIATCD	WTNAGDYILA	NTCTERLKL	AAETLKATEE	TFKLSYGIAT	VREVLSDREL	hLSWEVKGPR	PPLNRNYVFT	GYRVTKNSKV	QIGEYTFEKG	DYGDVAVYRG	iTTYKLNVD	YFVLTSTVM	PLSAPTLVPQ	EHYVRITGLY
5581																		
India	PTLNISDEF	SNVANYQKIG	MQKYSTLQGP	PGTGKSHFAI	GLALYYPSAR	IVYTACSHAA	VDALCEKALK	YLPIDKCSRI	IPARARVECF	DKFKVNSTLE	QYVFCTVNAL	PETTADIVF	DEISMATNYD	LSVWNARLRA	KHYVYIGDPA	QLPAPRTLLT	KGTLEPEYFN	SVCRLMKTIG
Bat	PTLNISNEFS	SNVANYQKIG	MQKYSTLQGP	PGTGKSHFAI	GLALYYPSAR	IVYTACSHAA	VDALCEKALK	YLPIDKCSRI	IPARARVECF	DKFKVNSTLE	QYVFCTVNAL	PETTADIVF	DEISMATNYD	LSVWNARLRA	KHYVYIGDPA	QLPAPRTLLT	KGTLEPEYFN	SVCRLMKTIG
Consensus	PTLNIS#EFS	SNVANYQK!G	MQKYSTLQGP	PGTGKSHFAI	GLALYYPSAR	IVYTACSHAA	VDALCEKALK	YLPIDKCSRI	IPARARVECF	DKFKVNSTLE	QYVFCTVNAL	PETTADIVF	DEISMATNYD	LSVWNARLRA	KHYVYIGDPA	QLPAPRTLLT	KGTLEPEYFN	SVCRLMKTIG
5761																		
India	PDMFLGTCRR	CPAEIVDTVS	ALVYDNKKA	HKDKSAQCFK	MFYKGVITHD	VSSAINRPQI	GVRREFLTRN	PAWRKAVFIS	PYNSQNAVAS	KILGLPTQTV	DSSQGESEYD	VIFTQTTETA	HSCNVNRFNV	AITRAKIGIL	CIMSDRDLYD	KLQFTSLEIP	RRNVATLQAE	NVTGLFKDCS
Bat	PDMFLGTCRR	CPAEIVDTVS	ALVYDNKKA	HKEKSAQCFK	MYKGVITHD	VSSAINRPQI	GVRREFLTRN	PAWRKAVFIS	PYNSQNAVAS	KILGLPTQTV	DSSQGESEYD	VIFTQTTETA	HSCNVNRFNV	AITRAKIGIL	CIMSDRDLYD	KLQFTSLEVP	RRNVATLQAE	NVTGLFKDCS
Consensus	PDMFLGTCRR	CPAEIVDTVS	ALVYDNKKA	Hk#KSAQCFK	M%YKGVITHD	VSSAINRPQI	GVRREFLTRN	PAWRKAVFIS	PYNSQNAVAS	KILGLPTQTV	DSSQGESEYD	VIFTQTTETA	HSCNVNRFNV	AITRAK!GIL	CIMSDRDLYD	KLQFTSLE!P	RRNVATLQAE	NVTGLFKDCS
5941																		
India	KVITGLHPTQ	APTHLSVDTK	FKTEGLCVDI	PGIPKDMTYR	RLISMMGFKM	NYQVNGYPNM	FITREEAIRH	VRAWIGFDVE	GCHATREAVG	TNLPLQLGFS	TGVNLVAVPT	GVVDTPNNTD	FSRVSAKPPP	GDQFKHLIPL	MYKGLPWNV	RIKIVQMLSD	TLKNSLDRV	FVLWAHGFE
Bat	KIITGLHPTQ	APTHLSVDTK	FKTEGLCVDI	PGIPKDMTYR	RLISMMGFKM	NYQVNGYPNM	FITREEAIRH	VRAWIGFDVE	GCHATRDVAVG	TNLPLQLGFS	TGVNLVAVPT	GVVDENSTE	FTRVNAKPPP	GDQFKHLIPL	MYKGLPWNV	RIKIVQMLSD	TLKGLSDRV	FVLWAHGFE
Consensus	K!ITGLHPTQ	APTHLSVDTK	FKTEGLCVDI	PGIPKDMTYR	RLISMMGFKM	NYQVNGYPNM	FITREEAIRH	VRAWIGFDVE	GCHATR#AVG	TNLPLQLGFS	TGVNLVAVPT	GVVDTeNnt#	FsrVnAKPPP	GDQFKHLIPL	MYKGLPWNV	RIKIVQMLSD	TLKnLSDRV	FVLWAHGFE
6121																		
India	TSMKYFVKIG	PERTCLCDR	RATCFSTA	TYACWHSIG	FDYVYNPFMI	DVQQWGTGN	LQSNHDLYCQ	VHGNAHVASC	DAIMTRCLAV	HECFVKRVWD	TIEYPIIGDE	LKINAACRKY	QHMVVKALL	ADKFPVLHDI	GNPKAICVCP	QADVEWKFYD	AQPCSDKAYK	IEELFYSYAT
Bat	TSMKYFVKIG	PERTCLCDK	RATCFSTSSD	TYACWnHVSIG	FDYVYNPFMI	DVQQWGTGN	LQSNHDhQCQ	VHGNAHVASC	DAIMTRCLAV	HECFVKRVWD	SVEYPIIGDE	LKINAACRKY	QHMVVKALL	ADKFTVLHDI	GNPKAIRCVCP	QAEVDWKFYD	AQPCSDKAYK	IEELFYSYAT
Consensus	TSMKYFVKIG	PERTCLCDR	RATCFSTA	TYACWnH!SIG	FDYVYNPFMI	DVQQWGTGN	LQSNHDhqcQ	VHGNAHVASC	DAIMTRCLAV	HECFVKRVWD	s!EYPIIGDE	LKINAACRKY	QHMVVKaALL	ADKFPVLHDI	GNPKAIrCVCP	QaV#WKFYD	AQPCSDKAYK	IEELFYSYAT
6301																		
India	HSDKFTDVC	LFWNCNVDY	PANsIVCRFD	TRVLSNLNLP	GCDGGSLYVN	KHAFHTPAFD	KSASFNLKQL	PFYYSDSPC	ESHGKQVSD	IDYVPLKSA	CITRNLGGA	VCRHHANEYR	LYLDAYNMMI	SAGFSLWYK	QFDYTNLWNT	FTRLQSLNV	AFNVNKGHF	DGQGEVPS
Bat	HhDKFTDVC	LFWNCNVDY	PANaIVCRFD	TRVLSNLNLP	GCDGGSLYVN	KHAFHTPAFD	KSASFThLKQL	PFYYSDSPC	ESHGKQVSD	IDYVPLKSA	CITRNLGGA	VCRHHANEYR	QYLDAYNMMI	SAGFSLWIYK	QFDYTNLWNT	FTKLQSLNV	AYNVNKGHF	DGQSGeAPVS
Consensus	HhDKFTDVC	LFWNCNVDY	PANaIVCRFD	TRVLSNLNLP	GCDGGSLYVN	KHAFHTPAFD	KSASFtnLKQL	PFYYSDSPC	ESHGKQVSD	IDYVPLKSA	CITRNLGGA	VCRHHANEYR	qYLDAYNMMI	SAGFSLW!YK	QFDYTNLWNT	FTrLQSLNV	A%NVNKGHF	DGqGeaPVS

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6481
India IINNtVYTKV DGVDVLFEN KTTLPVNAF ELWAKRNIKP VPEVKILNNL GVDIAANTVI WDYKRDPAPAH ISTIGVCSMT DIAKKPTETI CAPLTVFFDG RVDGQVDLFR NARNGVLITE GSVKGLQPSV GPKQASLNGV TLIGEAVKTQ FNYKKVDGV VQQLPETYFT QSRNLQEFKP
Bat IINNAvYTKV DGIDVEIFEN KTTLPVNAF ELWAKRNIKP VPEIKILNNL GVDIAANnVI WDYKREAPAH VSTIGVCTMT DIAKKPTEsa CSSLIvLFDG RVEGQVDFFR NARNGVLITE GSVKGLTPSK GPaQASVNGV TLIGESVKTQ FNYFKVDGI IQQLPETYFT QSRDLEDFKP
Consensus IINNAvYTKV DG!DVEiFEN KTTLPVNAF ELWAKRNIKP VPE!KILNNL GVDIAANnVI WDYKR#APAH !STIGVCSMT DIAKKPTEsa CapLiVlFDG RV#GQVDlFR NARNGVLITE GSVKGLqPSk GPaQASlNGV TLIGeaVKTQ FNY%KKVDG! !QQLPETYFT QSR#L##FKP

6661
India RSQMEiDFLE LAMDEFIERI KLEGYAFEHI VYGDFSHSQL GGLHLLIGLA KRfKESPFEL EDFIPMDSTV KNYFITDAQT GSSKCVCSVI DLLLDDFVEI IKSQDLSVVS KVVKVTIDYT EISFMLWCKD GHVETFPYKL QSSQAWQPGV AMPNLYKMQR MLLEKCDLQN YGDSAtLPKG
Bat RSQMETDFLE LAMDEFIQRy KLEGYAFEHI VYGDFSHGQL GGLHLMIGLA KRSQDslLKL EDFIPMDSTV KNYFITDAQT GSSKCVCSVI DLLLDDFVEI IKSQDLSVVS KVVKVTIDYA EISFMLWCKD GHVETFPYKL QASQAWQPGV AMPNLYKMQR MLLEKCDLQN YGENAViPKG
Consensus RSQMEiDFLE LAMDEFI#RY KLEGYAFEHI VYGDFSHgQL GGLHL$IGLA KRfq#s1leL EDFIPMDSTV KNYFITDAQT GSSKCVCSVI DLLLDDFVEI IKSQDLSVVS KVVKVTIDYa EISFMLWCKD GHVETFPYKL QaSQAWQPGV AMPNLYKMQR MLLEKCDLQN YG#nAtiPKG

6841
India IMMNVAKYtQ LCQYLNTLTL AVPYNMRVIH FGAGSDKGVA PGTAVLRQWL PTGTLlVDSd LndFVSDADs TLIGDCATVH TANKWDLIIS DMYDPKtKv TKENDSKEGF FTyICGFIQq KLALGGsVAI KITEHSWnAD LYKLMGHfAw WtAFVtNvNA SSSEAFliGc NYLgKPrEQI
Bat IMMNVAKYtQ LCQYLNTLTL AVPYNMRVIH FGAGSDKGVA PGTAVLRQWL PTGTLlVDSd LndFVSDADs TLIGDCATVH TANKWDLIIS DMYDPKtKhV LkDnDSKEGF FTyLcGFIKQ KLALGGsVAV KITEHSWnAD LYKLMGHfSw WtAFVtNvNA SSSEAFliGv NYLgKPKrEQI
Consensus IMMNVAKYtQ LCQYLNTLTL AVPYNMRVIH FGAGSDKGVA PGTAVLRQWL PTGTLlVDSd LndFVSDADs TLIGDCATVH TANKWDLIIS DMYDPKtKv lK#nDSKEGF FTyicGFIqQ KLALGGsVA! KITEHSWnAD LYKLMGHfAw WtAFVtNvNA SSSEAFliGc NYLgKPrEQI

7021
India DGYtMHANYI FWRNTNPIQL SSYSLFDMsK FPLKLRGTAV MSLKEGQIND MIslLlSKGR LIIRENNRVV ISSDVLVNN 7099
Bat DGYtMHANYI FWRNTNPIQL SSYSLFDMsK FPLKLRGTAV MSLKENQIND MIYslLEKGR LIIRENNRVV VSSDILVNN
Consensus DGYtMHANYI FWRNTNPIQL SSYSLFDMsK FPLKLRGTAV MSLKENQIND MIslLLeKGR LIIRENNRVV !SSD!LVNN

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