

>LdSTS1

MSLSPSYFILPDLFSHSTAFHDATNPFWKRASAESRRWVNSYTVFVDRRRAFFFFQGGQSELL  
SSHCPYPYAGYEEFRTCCDLINLLFVIDELSDEQCYGDARRTGDIFLQAMRDPTWSDGSKLA  
QMTADFRERLVTTVKPKTFRRFMEHCDAYVDSVVEEAGLRDRGEILEEYVHLRRENSA  
VRVCFGLISYILGIDLPEVFSDFTFQKMYFSAVDMVCWANDLYSYNMELNRGLEGNFIT  
VLMKTQNMIDIQAACNFVGGHYKQLMDDFLSAKASLRSFGSKVDVDVRRYIEACQHWPV  
GNLVWSFETPRYFGARRDQIRRTRVVPLKPLEREPLSEDD

>LdSTS2

MSGLPQFYLPDLVAQWPWPRI LNQH YEEAKPESDEWLRGFEALDVKSQRSFDRCNLALL  
SSLGYPSLGKDCLRVACDLMVLFYIYDEYTDKLDGDGARDCADIVMRALRNPHKERSQG  
ESKLGEITRQFWLRAIKVASESAQRRFLKSFAAFVYAIIDEASDRNDGRIRSITDYLELRRLT  
VGAYASFFSLELGLDIPDEVMTHPAMESLLGLVTDSIVLTNDVNQDLYSYNNEQAAGHGG  
HNILTVMNEKGVLDLGALDWLAEYNGAILSRFQAQYRMLPSWGPDPDPIVTTTFVERLG  
HWIRGHDCWSFESERYFGTKGPEIQKHRVVTLLPRSTRPDVTPMMAQPVL

>LdSTS3

MHSSANSFYLPDLLVLSKPFKGSTNPHYKKAASRAWVNSYNIFTDRKRAFFIQGYNEL  
LVSHTYPHAGYEEFRTICDFVNLLFVVDEVSDDQNGADARRTGEVYLNAMKYPGWDGGS  
ALAKMTGEFRARLTRTSGPFSFRRFLKHCQDYIECVAREAEYRERGEVLDMESFKHLRRE  
NSAIRLCFGLFEYSLGIDLPEIFENPVFESLYWAAADMVCWANDVYSYNMEQAKGHTG  
NNIVTVLMKAHGCDLQTASDIIGAHYAELMERYLADRERLPSFGVEIDADVQLYVRAMEN  
WPIGNLEWSFETNRYFGPLHDEVKRTRLIVLTPRRDDSDDTSD

>LdSTS6

MSSADSSPTLSPSSTPPDSPLSSTRALSPTPTIHAPAFFVLPDLVSHCPFSVPYHDDGDAVAA  
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DGFLARDAAGLADWVMNAFEWPD SYRPVQGGQGGVEEISA AKLARDYWSRCIRDCAPA  
VQQRFKSSMQMFFQAVHQQALFRANGVVPDLETYIDMRRDTSGCKPVFDLIEYSLDLELP  
DVVVEDPVIVALNQGANDLVTWSNDIFSYNVEQSRGDTHNMICVYMIHDGLSLQQAVDR  
VGNMCKRTIETFVENQARIPSWGDGIDEDVKLYVHGLREWIVGSLHWSFVTTRYFGDDG  
EFVRTTRIVDLLTQEEDAKGEVVDLSC

>LdSTS7

MSELPQFHLPDLLAQWPWPRLSNQH YEETKPAFNEWVRSFEALDPKSQSADFRCNFALLS  
SIGHPLL NKDCLRVTC DLMALYFLYDEYTDKLDDEDGVRTCADVVT DALRNPHKERPQGE  
SKLGEIARQFWLRAIKVASEGAQRRFLKSFTTYAYSIIETS DRNSGRVRSIADCLELRRRTS  
AVYSTLFCVELGLDIPDEVMTHPAMVSL LALAI DPLMLTNDLYSYNIEQAAGHGGHNILTA  
IMNEKGVLDLGALDWFAEYNGAILSKFQAQYRMLPSWGPDLDPITAYVERLCYWIRGH  
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>LdSTS8

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ISRQFWELAIKTASPQAQKRFIKVF DAYAQAVVQEAADRGHKYVRSVHEYLEVRRDTIGG  
RPAFSIIELGLNLPDEVVEHPAIEDMTAWAVDMLILDNDIASYNVEQARGDDGHNIVTIVM  
HEHKTDIQGAMNWIHSYHKELEAKFMDRYENGIPTFGGPVDTELARYLDGIGNFVRAHE  
QWNFETER

>LdSTS10

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NEGEGRMGWGRNRQTIYSRFRWLAIKTASPAQKRFIKVYDAFAQALVQEAAADRDEHI  
RGVQEYFELRRDTISARPAFALIELDMNLPDEAVSHPVIEEMTILAIMIILDNDIASYNVEQ  
ARGDDGHNIITIVIHKHKTDIHGAMNWWHNRHKELEAKFMDLYENKIPNFGEPVDTELLR  
YVDGIGNLVRANDQWNFETERYFGKKALEIGRTRWVTLLPKERPEYIGPLLVDGSL

>LdSTS11

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GEIAKQFWLHAIKVASDSTQRRIDSFGPYVYAVVEEAADRQGRIRGITDYLDLRVRASA  
AYCTLFPLEMGLDIPDEVMTHPAMKTFLDLIVYPLCLTNDLYSYNIEQAVPGHAAHNLLTV  
VMNEKGVDLNGALDWYTEYNEAKLAKSLEQHRKLPSWGPEMDLAVTTFVEGVGYWM  
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>LdSTS12

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SKLGEIARQFWLRAIKVASEGAQRRFLKSFAEFAYSIIETSDRNAGRVRISITDYELRRRTS  
AVYSTLFSVELGLDIPDEVMTHPAMVSLALAVDPLMLTNDLYSYNVEQAAGHGHNLLT  
AIMNEKGVDLGDALDWFAEYNGLTRDVPEPVPTPGSDELLIDVHSAGLNFFDSQGYQT  
QPPRPVFLGAEFAGTVATAPPGSPYKPGDRVFGCCQGAYGERVVAKPVDVLPDLSFDQ  
GAGEWLLVLAAAGGVGIAAIQIGKVLGARVVACASPSKLNARTVGGADVFVDYTKDG  
WQKEVLKITGGRGVLDVYDPVGRIKDALKCTVWGGRALVVGFAFAST

>LdSTS14

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LVYPLLDKDGVRVGCMLVFFIYDEFTDKVDGDGARVYAEMVMDAIRDPHKERPQGE  
KLGEIARQFWLRAMKISSPEAQRRFITFAEYVYAVIDEASDRANGVRGVEDYKLRLT  
AGGYPSFLAAEAGLNIPDEVMAHPALQTLSLAAESLVTNDMYSYNIEQASGHGHNIVT  
VIMNEKRVDLGDALNWLAEYHGQVLSNFQAQHRLLPSWSPEVDADVSTFVERLAYWIR  
GIDCWSLETERYFGTKGPEIKEHRRITLLPKVKKPDVTPMMAQLNA

>Cop1

MSSLDATIHPVLNFEDKKIVLPDLVSHCNFKLRVSRHRKRITGETKRWLFGDNLVGPARN  
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YHPYTYHGQARVGRMTRDYWRRMILTASPGSQQRFIETFDFFFQSVTQQAIDRLTGEIPDL  
ESYIALRRDTSGCKPCWALIEYANNLDLPDEVMDHPVVRSLGEAANDLVTWSNDIFSFN  
EQSKGDTHNMIPVVMHQEGLDLQSAVDFVGEMCKSAIDRFIEDQNYLPSWGPKIDRLA  
VYINGLADWIVGSLHWSFETERYFGKNGRQVKSSRVIDLLPRRSQ

>Cop2

MPSPAGALPKSFILPDLVNDCPFPLRVNPLCDEVGRLSEQWFLRHANYSPRAVAFMALK  
GELTAACYPDADAFHLRVSDDFMNFLFNADDWLDDFDIEDTYGLANCTVRALRDPVNF  
TDKRAGLMTKSYFSRFLKTAGPRCTERFIQTLALYFESVVTQKQARNNGTLPDLESYITIR  
RNSGCKPCYALIEFCAGIDLPEVINHPHIIQSLEDASNDLIAWSNDIFSFNREQSRHDSFNM  
VSIVMHQKGFALQEAVNFVGELCKKAMERFQADKRNLPSWGPEIDGEVAMYVDGLQNW  
IVGSLNWSIDGTERYFGKDGPGIKKHKRVKLFPRPLKTPAVRVLA

>Cop3

MSTPSSSLTTDESPASFILPDLVSHCPFLRYHPKGDEVAKQTVHWLDSNCPDLTAKERKA  
MYGLQAGELTGycypYTTPERLRVVADFLNYLFHLDNISDGMMTRETAVLADVVMNAL  
WFPEDYRPTKGQAAEELNPGKLARDFWSRCIPDCGPGTQARFKETFGSFFEAVNIQARAR  
DEGVIPDLESYIDVRRDTSgCKPCWVLIEYALGIDLPDFVVEHPVIAALNQGTNDLVTWSN  
DIFSYNVEQSKGDTHNMIILMEHHGHTLQSAVDYVGS LCQQTINTFCENKQQLPSWGPEI  
DDMVAKYVQGLEDWIVGSLHWSFQTRRYFGDEGQEIKQHRLVKLLTVAPPPPPPPPTPP PQ  
SSDADTKKQKVKAQDGKGPVSDEEVWALVRAEQSKGSILESLFGFLTTSLSRIFFGYFFAY  
SH

>Cop4

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SHVYAYAGYEQFRTCCDFVNLLFVDEISDDQNGQDARATGRIFVNAMRDAHWDGGSIL  
AKITHEFRERFVRLAGPKTVRRFADLCESYTD CVAREAELRERNQVLGLNDFIALRRQNS  
AVLLCYSLVEYILGIDLDDDEVYEDPTFAKAYWAACDFVCWANDVYSYDMEQAKGHTGN  
NVVTVLMKEKDLSLQEASDYIGRECEKQMRDYLEAKS QLLQSTDLPQEAVRYIEALGYW  
MVGNLVWSFESQRYFGAQHERVKATHVVHLRPSSVLEASCDSDSDSDC

>Cop5

MVGSYTGKVIHVPALLESWPWPAAINPLYEQVQEESTSWFRKFDLYRDRKKQAIHDHLD T  
AKFGASVCPKADYALLRLATDYLHLGFWIDYFFDTSPSDVIRQLTESIAHLLES G D PRLDSS  
SPQSHIACMEILRDFRKRIETFNPSQEDLRRFVKEYRGFLEAELTQAIDHENKVIRDIESYLS  
IRRSTIAIRPGIALGLALGIPQEILDDPYTDTLTNACLDMVIIQNDAYSWNVEQVRKADGH  
NIITVLMKQRDIDVQEAYEHAAQLHRETQEHFLELHAKRPDWGNEGSIQAFFDGLGEFVR  
GVDEWSSMCLGEHALSVGAGFLK

>Cop6

MPAALPYNVSRDNKWDIKKIIQDFFKRCDPYQVIPYDTELWNACLKRAKEKGYPVEPDS  
PMSLYRSFKVGVVITRTSYGHIQDYELIWWATFTAFTYADDAFQEDIQHLHSFARTFLQN  
EKHEHPVLEAFAQFLRESSIRFSHFVANTVSSALRFMMSSIALEFEGQNVSVSTEAREYPG  
YIRILSGLSDIYALFAFPMDLPRSTYIQAPEQIDYINGTNDLLSFYKEELDCETVNFISAAAT  
SQQVSKLEVLRNAAEKAAYSYDVVVNVLPYPEALAAWKSFARGFCYFHTSSPRYRLGE  
MFHDFEHDLVCKCASCTEI

>Omp1

MKYTSFALPDLASSCDYNLRFNKYHRSVSPETKKWFFRLSPASQADLTTYDAQRFTLLAA  
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KMTSDYFKRIIQTSNDGTTKRFIDTMSFFKSVDDQARDRLAGHIPDLESYIALRRETSGC  
KTCFSLIEYANNLHIPDEVISHPHIEQMETAANDVVSFANDIYSFNIEQSKGDTHNMIPVLM  
HANPDMDFLEAVSFVRDLTIKAMDRFNELRATLPSWGLDIDKDMKVYVNGLENWMVGI  
LFWSFETERYFGKSVRSVKATKTVNLLPSRA

>Omp2

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RVGKMTRDYWKRLISTASPGTQQRFIETDFFFFQSVTEQAHDRQAGVIPDLESYIALRRDT  
SGCKTSFVLIEYANNLDIPDGVM DHPLIRSLGEAANDLVTWSNDIFSYNVEQAKGDTHNM  
IPVIMNEHGLDLQSAVDYVGRLCQQSIDRFISDRAQLPSWGPEIDRQVAIYVDGLTDWIVG  
SLHWSFESERYFGKSGRQIKKSRVINLLPRRA

>Omp3

MAIENTIASAPASTPAKQLDTPDHFILPDLVSHCTFPLVYHSNGDAVAAQSVKWLDTNCPD  
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DAVMNALWFTEWYRPTKKSDYVQPDEELNAGKLARDFWHRCIQDAGPGCQARFKETLE  
LFFEAVNIQAKARDAGVIPDLESYIDVRRDTSGCKPCWALIEYGLGIDLPDYVAEDPIIKSL  
NQSTNDLVTWSNDIFSYNVEQSRGDTHNMIVILMLYHGHNLQSAIDYVGDLCRQTIDDFK  
ENRKKIPSWGPEVDDIVKQYVQGLQDWIVGSLHWSFMTTRYFGKQGQEVKKNRYVKLL  
PVGEEANKW

>Omp4

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FLNALRNPENDDTSKLSKISKEFRARYFKRAGPRTAERFLQHCQDYIDCVTREAE LRERGE  
VLDLPSFTALRRENSAIRICFCLFEYALGFDLPQEVFDDPTFMEYWAAADLVCWANDVY  
SYNKEQAQGHGGNNIVTVLMKAKDLDLQAACDYIGVYCEELMGRYLSAKARLPSWGPE  
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E

>Omp5a

MSPDPTRIVLPDFLAACPFESSTKNPHLKAAGAESSAWVNSHVVFNDRKRAAFMQDIYEL  
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ELTELCREFKARYSKRVSPQVNERFLQHLQSYTDCVAQEADLRERGEILDLESYVALRREN  
SAIRPCFDLVEYIIDFDIPQEVIDHPVFSEMYWASVDLVCWSNDVYSYNVEQAKGHGGSN  
VVTVLMKEKNLDLQAACDYVGVYEEELMDRYLSAKARLPSWGPEIDAAVGKYILAEAQ  
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>Omp5b

MSPAPSRIVLPDFFASCPFESSTINPHFKAAGAESSAWVNSHVVFNDRKRAALMQNSYELL  
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TELCKEFKARFSRRLSPQVNERFLQHLQSYTDCVAQEADLRERGEILDLESYVILRRENSA  
VRPCFDLVEYIMDFDIPQEVLDHPVFSEMYWASVDLVCWSNDVYSYNVEQAKGHRGSNV  
VTVLMNEKNLDLQAACDYVGVYYYQELMDRYLSAKARLPSWGPEIDAAVGKYVLAEAQF  
VRGNLDWSFDTPRYFGPQRDQIKKSRIVTLTPAPKKFGSDSGSESE

>Omp6

MIAKNSEIDRFYIPDTLANWPWPRHLNPAYPEAKKASAAWLRSFNAFNERSQKAFDLCDF  
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GEFIGGEAHRQFWERAMQGATPTAQRRFIDTYQQYTDAVVQQATDRADNHIRDVEGYFT  
VRRDTIGAKPSFTLLEFTMDIPDEVMGHPVIKDLSLWCIDMLIIGNDLCSYNVEQAHGDDL  
HNLVTIVMNQYNLDLPGAMEWIGKFHDDIADKFLDTFAKLPSWGPEIDPQIRRYVDGLGN  
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>Omp7

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VGGEVTRQFWELAIKTASPQSQKRFIETFDITYTKSVVQQAADRTQHYVRTVDEYLEVRRD  
TIGAKPSFAILELTMDIPDEVIHHTIERLAILAIDMILLGNDTASYNVEQARGDDNHNMTI  
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SDQWGFESERYFGTKAPEIQKTRWVTLMPKKRAEGVGPEIVDISEL

>Omp8

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YTALLTSFDDVFEANVEQFGGFNERFMKGEPQEDFLDALARILLDAPRYYGRLATNIIVT  
ATLDFFTGLFLELQARDMTFNEDLHNFAVFCRNLTGIAHAYAVFMFPRDVPFTVYVRSLE  
LKT DINYVNDIMSFYKEDRAEETDNLASILRQVHPSMTKHQVLQKIVDDAVEADVRARKI  
LADYQPALDAYEHFRKGYAMFHVSSGRYRLDELFSYIRFE

>Omp9

MSQILHLLWSKFSTSLPSTVTIGSDPQTLQLVHSPAPNVNANALEIYKIVDNFLSRCGIRLES  
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YTALATCFDDVFEKNVDHMSGFNERFMKALPQGDVFLDAFAKVLLDAPRYFGRLASNIIV  
TSTLDFITSMSVDVLTGKMKFNQNLHNFAMACRNMSGIAYTYAPFIFPKEVPFAIYAQCLP  
DMRIYINHVNDVLSFYKEDKAGETENLASILGQVHPSMTKYQIVQGLADDAEADLRVR  
TVLSQYQPALDAYNCFRQGYVSFHASSGRYRLDELFSFVEPEPIV

>Omp10

MRNFLSQCQIPLQRGVPLDPTFHQECANVLIEDYKPSAAVTLENLPSLMSSFNPFLLTG  
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GLLRSTSKYFSSLSSNLIVTSALNYVTSLSLDQGLHSIKATEHSRNFARLCRNMSGIPEAFA  
AFVFPPEVPFTAYIQCFPDLYTYANYVNDVLSFYKEDIAGETENLVSILAQTQPNSSRYQVL  
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>ShSTS1

MAHPTTNPSHRLEQMESVREHIPRLQHFLGEIGYRHTTPPAPTLDLHAHHHWIHHVLGP  
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HRVYLGEAQPTGVLTLYHQGIQELSKMHEGDAVFRGLAVAPWITFIDACMLEKRLTTFDSK  
LRVSPRDLGYQRLRNSTDFTSRAPKATPSEVEVSFPIFLRHKSGIGEAYAAAIFKSSRYQEL  
PLSRFVKSMPPDMIYYIELVNDLMSFYKEQLAGETANLIHLQHQS WKGGQGTGPYGSWTL  
LDTF SRLCDETRDAAFRVD ELLRLDECEKIANGELRGEEVGLSPMDVTMAAQWREFRDG  
YVSWHLECQRYKLDFIKLSTFE

>ShSTS11

MAAPESSAWVSSYNLFSDRKRTDFITGSNELLVSHTYPHADYDAFRTCCDFVNLLFVIDEI  
SDDQSGKAARRTGEVYLNAMRDPEWTDGSDLAKMTQQFRARFLRSVGPQSFRRLRHSE  
DYIDCVAKEAEYRERGQVLDMDSFKSLRRENSAIRLCFGLFEFTLGIDLPDSVFEDTFMK  
MYWASADMVCWANDVYSYNVEQAKGHSGNNIVTVLMAARDIDMQAASDYVGEYYAE  
LMEEYMTAKAELASKSFGSRDLDEDVWKYVNAMENWPIGNLEWSFKTNRYFGTLHDEV  
KRTRLVVIKPRKVVV

>ShSTS18

PRHINPHYQEVKKASAAWAESFGAFNPKAQHAYNACDFKRLRTGCDLMNMFFVFDEYS  
VSSPKDVIQQAIIIMDALRNPYAPRPDDEWVGGEVTRQFWKRAIKTATAGAQRFFIDAFE  
SYTQSVVQAKDRHHGFIRDVDSYLEMRRETIGAKPSFVVLQMDMTLPDEVLAHPVIQQ  
LSALSTDMICLGNRRLIQILWTVQDICSYNVEQARGDDLHNIITIAMNQFDIDIAGAMDWV  
VKYHAKLERKFLYLYNNGLPSWGKELDPQVERYVCGL

>ShSTS15

MVRSPVSDKFCIPDTLASWPYPRILNPHYAEEKAASAAWTKGFGAFGPKAQDAFDRCDFK  
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WERAMCYASEISQRRFIDTFDEYLESVDQAADRDSARIRDIESYINIRNTIGAKPSFVIM

EQGMDIPDNVFENEVFQRLRMATIDMLCLGNDIVSYNIEQARGDDSHNIVRIVMNELDTD  
VPRAMDWVAQRHTQLEREFFTALSELPTWGEPIDGWVKEYVYGLGNWVRANDQWSFES  
QRYFGTKGMEIMKSRWLSVLPKVRPAEVGPQLVDQSLL

>ShSTS16

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KDIVMDALRNPHKPRPEGEWVGGEVARQFWALTITNASAQSQKHFIETFDEYLDSSVVQQ  
AEDRSERIRDIQSYIDVRRNTIGAKPSFALLELDMDLPDEVLAHPTIQSLSLATIDMLCLGN  
DIVSYNLEQARGDASHNIITIVMNELNLDVNGAMRWVGDFFHKQLEKQFFAFNNLPKWG  
NAELDAQIAVYCDGLGNWVRANDQWSFESERYFGARGLEIMETKTLAMMPIQRTEALGP  
QLVDDDSIL

>ShSTS3

MSTAKPEIPPMESFPPINVYPREAEIHKYCNNYVAEHFPFNDAEVKHFNGMEIPAYACRVV  
SFARDHEKMRKVSVILIVFYFIFDDWVDKNGMKLKDSTVMALLPPPSEVPIKPPQAGKMTL  
SDISAELYGAVRDDMPKADYDRMVNDMMEYLRVQRMAGYNTLQELDLRSGEVGVY  
VLFRIIYAMELSVSGKELDDPLVKRAQVLGSEAGVLRNEASSYVKEVNEGSGAHNVITK  
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WWHHHSTRYAEGREVTVP

>ShSTS4

MSETKVGVKVPFPPLPGAPYPPVRNHPRWKGAPAADFDRMVWGARIAGIFFLADDYIDSG  
KMLDRIPGFKAVCTFLPLHKEDQAEICHDIVFRAIKATSHPRTFDQLTKCTHEWWDNSIHE  
PFQNLQYLAVRRVNIAMVTYFRYTLNLTDEQVNHPLMREAEGIVSDHVGLTNDFFSY  
LKEKMTNSDDTNIIRILMDHEHLSYEEAKTVIEKKIRQKEQDFIGAGMAVLNDPELGKDRE  
IYRWIANLQYCMGGNLAWSQEVSENHYGIHVLDIT

>ShSTS5

MELSSLRPFPAFVLPNLANITRQAFNLKLNPHSQSANSAMKSWFKSFHVYDEQKSREFLE  
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SHAPTSLDFPYAAMLQSLFNRIKTATKGASERFIQAFKDWSSSQVMQSRNRSKLLPSVE  
DFILMRRNTIGAALVEAMIEYSLDLDPDYVFRDPVVIAMSEATTDIMTWPNDLCSFNKEQ  
ADGDYQNLVCCCLMAQYDLGLQDAVDRLVGMISTRVRDYITLKEQLPLFGAEVDTMLRKY  
HAALAHYVQGTIVWYYSSPRYFHGEQIIEKESTRIILFSKASSKDCS

>ShSTS7

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ALRDPLHYETDKAVGKLAKSFFGRFVQHGGPLRTKRFIDTMVLFFRAVRQQALDRYDDI  
PDLESYIALRRDTSGCKPCFALIEFAGGYDLDPDAVVEHPSIQILQDATNDLVTWSNDIFS  
VEQSRGDTNMMVVVLMHEQGLAVQEAIDAVADLCERSIDTFEQTRRSLPSWGPVDSNVE  
SYIDGLQNWIIIGSLHWSFLTERYFGKDRRDVVRKLFVKLLAKRC

>ShSTS8

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QMTRDLRARVVSTGVKPHTRRLVHMCRDYIASVVEEAGLRERGEVLIDIESYIELRRNNS  
AVLTCFALIPYILGIDLPDEVVNDPNFSALNLAAVDMVCWANDIYSYDMEQAKGLEGNNI  
MTVLTEMHGLTMQDASDYVGEQYKALMDLFLDNQAALRSFGPSVDADVRRYVDAVRH

WPRGNLSWSFETPRYFREKREEIENTRVVILRPRPEPKMKSQN

>ShSTS10

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AVCKVELLVAYAYPHANYETFRGCCDFMNLIFAIDEISDMQNGEDAGETGDVFLNALRDA  
EWTDGSALEMTDRFRARFLRSAGPQSFRRLKVSSEDYIDCVTKEAGYRERSQILDMESF  
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>ShSTS12

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>ShSTS13

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TLSQERFMEGVRDCMAGMVRESLARKASRQHDSIHGFLKTRRDSAGCNLVFALSELEVA  
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>ShSTS17

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MDLPEDFMDHPVMHELHVLSSISMICLGNVSDIAPLPSDIVSWNLEQSRGDDTHNIVRIVM  
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>HS-HMGS

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>CpSTS1

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>CpSTS2

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>CpSTS3

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>CpSTS4

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WSFESHRYFGKHGREIQVHRVVDLACGHPECVQDNEVEKPAKGLLYEVEKKTYVGP  
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>CpSTS5

MSTIATGVALKSTRRPTKFILPDVSHCTFKLRCSRFRQKVTTETKQWLFKGGNLGAKDRV  
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LYHPHTYNEPERVGKMARDYFKRVIVTSSTGAQQRRETMDFFFQSITEQALDRKNGVIP  
DLESYITLRRDTSGCKPCWALIEYAYNLHIPDEVMEHPLILSLGEAANDLVTWSNDIFSYNV  
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>CpSTS6

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QTIGAIPSLDLLTLEMDLEDEVLDHPHIAKLELCVDMILIGNDLYSYNVEQARGDDTHNFV  
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>CpSTS7

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LRCNLARAIEWADERNQQLRTTFLSSIAEVPSWGGQVDIQVSEYLYGLANWVRANECWS  
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>CpSTS8

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ESGLHIDLQPQYVHEDPAFIAGYNATMDLACWVNDVYSYNMEQAKGHEASNILTVLMKYE  
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>CpSTS9

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>CpSTS11

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SGANVITVIMKERGLDVQGAMDYFGGYCEALTAQFLDAKRKIEKREGQEWKDAVLILDG  
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>CpSTS12

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FRRETSGVRSCFDLVEYCLGIDLPQFVHDDPIFTMGYNAAMDVLFWVNDLYSYNMEQAK  
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>CpSTS13

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GIMSPGFVLRFDHFCDYANGVADEALFREKDLMLDIQEYLFKFRREAAVRVVLDSVEYC  
LDLELEQNVMDDPVFQMAYNALDLAFGTNDIQSYNMEQAKQHKGANIISVIMRARTLD  
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>CpSTS14

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LVNDIYSYKVEQDRSEGVGGAFNAVSVLMRSKHVDAQDAMGIIKTQLTTLEEATLEEAAV  
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TTLSLS

>CpSTS15

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>CpSTS16

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>CpSTS17

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>CpSTS18

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>AcTPS4

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>AcTPS5

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RGDTHNLVLCVLMHQNNVDRQEAIEQAGELWRKTLDYDFECHKALPSWGPEIDRAVALYV  
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>AcTPS7

This sequence is not available.

>AcTPS9

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AVRFCFGLAGYALGIDL PDEVVEHPAFMAMHLSTVDMVCWSNDLYSYNMEQAMGHTGN  
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>Tps1A

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VRTGFLAF

>Tps2A

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GWDVALASACLTLT TVCYDELGLAGHFLGKNLCNVPGYVSFEIGATKIMGSTTNLDFIALE  
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>AncA

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>AncC

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>BvCS

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>GME3634

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>GME3638

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>GME9210

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>Agr1

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>Agr2

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>Copu2

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>Copu5

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>Copu9

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>Pro1

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This sequence is not available.

>Hfas344

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>PpSTS06

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>PpSTS08

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>PpSTS09

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RRLTVGARPSYALMELGMNIPDEVWEDPAMEIMAVCVTDMIILDNDMLS WNVEQSRGDD  
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>PpSTS10

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>PpSTS14

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>PpSTS29

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>Fompi1

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>PcSTS01

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>PcSTS02

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>PcSTS03

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>PcSTS04

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>PcSTS06

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>PcSTS08

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>PcSTS11

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>A8411

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>GsSTS43

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>GsSTS45a

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>GsSTS45b

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>GsSTS26

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>GsSTS27

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>GS02363

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>GS14272

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>GS11330

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>GL26009

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>GLSTS6

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>STC4

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>STC9

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>STC15

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>AbSTS05

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>AbSTS07

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>AbSTS09

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>AvSTS01

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>AvSTS03

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>AvSTS06

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>AvSTS07

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>AvSTS09

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LVSHTYPHAGYAQFRTICDFVNLLFVVDEVSDDQSGADARKTGEVYLNAMRDPEWDDGS  
PLAKMTKEFRARLLGSCGPRSFARFLRHSEDYINCVALEAEYRERGEVLDMEAFKHLRRE  
NSAIRLCFGLFEFSLGIDLPDEVFQETTFSSIWAAADMVCWANDVYSYNMEQAKGHTGN  
NIVTVLMKAKGFDLQAASDYIGIYYAELMNRYIADKARLPSFGPSIDTDVQRYVTAMENW  
PIGNLVWSFETNRYFGPRHAEIKRTRLVILKPREEDT

>LnSTS01

MSPSSEIYFTIPNTLQNWPPRHINPNYNVCKAESSAWCEGFKAFTPKAQKAFNKCDFNL  
LASLAYPLLNKEGCRVGCGLMNLFFVIDEYSDVADQCGAREQADIVMDALRHPLKPRPEG  
EWVGGEIARQFWENAIARTATPSAQRRFIRMFD SYLNSVVQQAEDRTHNYIRDIQSYFDVRR  
DTIGAKPSFAINEIHLNISDEV MEDPIIKTLTSTSIDMLIIGNDLCSYNVEQARGDDGHNLVTI  
VMNERKIGLHAALQWISDLHDLRLAAEFLEAYKKLPSPIDPDVATYVDGLGNWVRGNDV  
WSFESERYFGVRGLEIQNRRIVQLLPKEKGEQGNTGLIPSTQGISVSTIKPSGFIQNILSSIWI  
KWGVTFVLVLMLSVASLRSIIILHRYELF

>LnSTS02

MSPSSEIYFTIPNTLQNWPPRHINPNYNVCKAESSAWCEGFKAFTPKAQKAFNKCDFNL  
LASLAYPLLNKEGCRVGCGLMNLFFVIDEYSDVADQCGAREQADIVMDALRHPLKPRPEG  
EWVGGEIARQFWENAIARTATPSAQRRFIRMFD SYLNSVVQQAEDRTHNYIRDIQSYFDVRR  
DTIGAKPSFAINEIHLNISDEV MEDPIIKTLTSTSIDMLIIGNDLCSYNVEQARGDDGHNLVTI  
VMNERKIGLHAALQWISDLHDLRLAAEFLEAYKKLPSPIDPDVATYVDGLGNWVRGNDV  
WSFESERYFGVRGLEIQNRRIVQLLPKEKGEQGNTGLIPSTQGISVSTIKPSGFIQNILSSIWI  
KWGVTFVLVLMLSVASLRSIIILHRYELF

>LnSTS04

MALITSLKSTERTTFVLPDLLANWPFNPEPNPRQDIVAQSAAWVESFNPFD AKAQNAFNR  
CKFGIFASLAYPHATGAHFRVACGLMNLFFVFDEYSDRADGEAVGKQAADIMNALRYPDT  
IPPEGDSLGLAMTRDFWLRTMKCASESSAQRFIRNFDEYTDVQRQAADRDAGCIRSVPE  
YFKIRRGITGVHPSFDYLLRDDL PDECVNHPDVQRLASAAVDMTILANDVYSYNKEQA  
KGEDSHNLVAVVMKEHDLTVQEAMDYIGDLYNHIRKQYCEKFQDLPRFNDDVDGLVREF  
CYGTGIWVTTNIKWSFASERYFGKEGMEIMKHRTVTLLPKVDKLFK

>LnSTS09

MNHTTTQILLPDLISMLPLEGATNPHYEKGAESRAWINSYNVFTDRKRAFFVLGSNELLV  
SHAYPYAGYDVFKICCDFVNVLFFVDELSDEQDGKDALT LGNIFVNAMTDPLWNDQSKFS  
RMTKEFRSRYTKLAGPNTTARFLKYWESYCAAVITEAELREKGQILDVDSFMELRRDNSA  
VRLCFGLIEFCFGTDLPDEVFEDPTFLKIYWAADVLCWANDVYSYDMEQSKGISGNNIVT  
VLMHDKNMDLQTAVDYVGTYSKELVDRFMDLQAHLPSWGS AVDSQVALFIKGLGYWVK  
GNLDWSFETQRYFGPKHMEIKNTLLVTLRPLECPEETDSESDE

>LnSTS19

MALYSLRSLPTLFSFAISPISPLDSSMNYHTYRLSDEEIERSIYRDFLRKMEYCKPDLHDAE  
KTLEQALRSEMYSRNMQCPQLEKTVHLAARLVELAYPDCTFEEQKVIALVNWVFIYLLD  
VDSEPCAAFPRLLRGQKQLDPVLDAFADVLSMHDYYDSLAAANQIVTSILNFINLTPVES

QIAAGTFTVPSRSRRFPGFLDRSGLGVPFALFAFPKSQGLDTAAYLRALPDMDFWICAAAN  
DLLSYHKEMLAGETNNYVSSRALVEKKTPLRVLVELERELEESRNVIHATLSSHPAAIKAW  
RAFEVGGVAWHLEQKRYKLKDLALDQQVTARG

>LnSTS20

MAPVSLIRPTSANVVQDLNKTGILRRFLQGMAYCPSNISGTNEELEKIMRAEMNNRNIRCP  
QLEKTLHLAASLIELGYHDCITLTKTNIALYNWYLIYIDDMSSKDTGPFMAFQERFLRRMP  
QLNPVLEALVGVLMRIYELYDMPTANSILSATFNFVNSTCIEPEIETLPLTRGLVRFPWFLRD  
QTGVAIAFALLLPKSKNVGVTDYIQALSDMNFVSVTNDILSFHKEELAGERANYVYNR  
AYIEDKVPLSVLAEMSQELFESRNAVYAALHCPQAADVWHTWEQGYVRWHIDQKRYK  
LSELSL

>LnSTS25

MSQDTSKAKFEMA AVLKEFLQETAYHPPTIPSTNEELENKMYEYMHGRNLACPQLERTLH  
LAASLIEIAFPECTLSEKTVIAIFNWFIIYIDDTSPGDVSPFVAFGPRFFSQTQQLDPVLDAFV  
DILQRICDQYEPATANYILASAFNYISSTCIEPEIEAHAVVPGVIRFPWFIRGQTGISLAFALM  
LFPKSKGVSAVQYIQVLEEMNFWISGVNDLMSFPKEQLAGERNNYVHVRARTEEKSPME  
VLAELNQELHMSRKLIIYAALSLIPGASTIWSAFENGYIKWHLIQERYKLAEMDLTG

>LnSTS27

MSTVTQLLNNFVHVVSRA GSLITPDLN GEFYDAPLS DAGDPPAKDDVTDLMTVGQILG  
KMLHDCHIPYCAVSFDYGLMKAPVAEAERRGYALEGPNSMRQALFLGVYLTSTMYAHVT  
DDDALRTYIIFYIMFMFYVDDKYFEQSDKESGLLHFIARFNQNPQAEP SLTNFADFLRDD  
TAAVFEPIGGGIIITSTLNFINGMILETSVKLGQISPYAQNFPYFVRNKSGFPEACVILAFPRD  
MPVRQYAQAFPEICDYLCYVNDIMSFYKEELVGETENLVSLAAVTDSKVEHLLSTDSPAP  
VTRNDKYGVLRRLSAAVASGHKKTLQILSGNPVAQDIYLKFAIQYVTMYISMRERYKLDE  
LRFGDKA

>PoSTS01

MSAIASSSAQAAPPSKIVIPDLVSHCTFELRVNRHRKIASAQSKRWLFRGDNLTGKKRDAY  
HGLKAGLLTSMCYPNAGAPQLRVCCDFMNYLFLHLDNLSDDMDNRGKSTADVVLNALY  
NPKMRQTKRVGKMTKDYWQRLIRTAAPGAQQRFIETFDFFFQAVSQQARDRAEGSIPDLE  
SYIALRRDTSGCKPCWALIEYANNLDIPDEVMDHPHRS LGEAANDLVTWSNDIFSYNVEQ  
SKGDTHNMIPVVMHEEGLELQAAVDFVGALCKQSIDRFVECRANLPCWGPEIDRQVAVY  
VEGLADWIVGSLHWSFESERYFGKSGLEVKKNRVINLLPRRS

>PoSTS02

MSTLISPDPHFILPDLVSDCTYPLRVNDNCEEVARVSEQWLLNAAHNERNKRR AFLGLKAG  
ELTAACYPDADAFHLRV CVDFMNYLFLNDDWLDEFDVEGTRGMHDCCIGVMRDPLNFE  
TDKRAGIMTKSFFSRFIETGGPGCTERFIHTMDLFFKAVAIQAADREKDVIPDFESYITIRRD  
TSGCKPCFALIEYASRIDLPDEVAEHPLIRSMEEATNDLVTWSNDLFSYNVEQSRGDTHNMI  
PVIMHQRDNLNQEAVEYVGALCKSSIQR FETDRKNLPTWGPEIDRDVAVYVEGLQNWIVG  
SLHWSFDSERYFGTSGLEVKKQRIVKLLPKVPS

>PoSTS03

MVPVASFIQEPSRAPSSFILPDLVSHCKFPLTYHPQGDAVALESVTWLDRLCPDLSPKARKA  
LWGLQAGELTAYCYPSCSPDRLRVSDFMNYLFLHLDNISDGMMTRETDLADSVMNAL  
WHPEEYRPTRSPGKEQPAEELDAGKIARDYWSRCIPGAGLGVQARFKESLQLFFEAVNVQ  
ARARDAGEVPDLESYIDVRRDTSGCKPVFDLIEYAMDFELPEEVVNHPVIKALNQGTNDL  
VTWSNDIFSYNVEQARGDTHNMIVILMKYHGHTLQSAVDYVGELCCQTINNFCANRQVIP

SWGPETDRMVQEYVQGLQDWITGSLHWSFKTHRYFGTNGAEVKKTRLVKLLPLKNGAN  
PCAGEATK

>PoSTS05

MSSQPTQIVLPDLLAMCPLKGYTNPHYKEAAAESVAWIDSYNVFTDRKRAFFVQGCNELL  
VSHTFPYAPYEQFRTCCDLVNLLFVIDEVSDDQSGKDARATGQVFLNALGDPEWNDGSL  
SRITKDFRARYFRLAGPNSSRRFLKHCEYINAVSTEAE LRERGEVLDIEPFTALRRENSAIR  
LCFGLFEYALGIDLPDEVFQDKTFQDMYFAAVDMVSWSNVSYNMEQAKGHSGNNIVT  
VLMKSKGMGIQEAVDHVG VHFQQIMDIYMDSKTRLPSWGSEVDVNIARYVEALGHWAK  
GNLDWSFETQRYFGAEHLEVMATRVVTLRPHGSPEDFDE

>PoSTS06

MTSTTKHPLPSHFILPDLLDQWPFETEPNPHQEIVDD SARWVESYKAFSPKAQDAFNRCNF  
GIFASLAYPRSEGTHYRAACDLMNLFVFDEFSDAENGDVVRQQAADIMNALRYPDKIPA  
GGDSILGAMTRDYWKRTLEVSSKSSAERFIRNFDGYTDAVRQEAVDRDEGRERSIEEYME  
LRRGTIGVYPSFDYFLLIEDDIPDEYIDHPAVASLALGAVDMTILANDVYSWNVEQCRGEDR  
HNLVAVAMREKGLSVQEAMDYVGTIYAGIRDKYVKEFNELPQFPEKYDKLVKDYCWHM  
GNWVTTNIKWSHFGERYFGKKGREILKHRTVEVMRPSVLGWVMRKSYP LIVTVKYAPRE  
YYYIAVTFMLLLLALLSSPSRARILGHSSFPSSF

>PoSTS11

MASHYRLPNLLALFNTDGARVNPRFHELDSQFNQWLDTLTLDAGFVETLKQIQMPVLISH  
AYPEASLGQLRTCLDYLTAFIFEEITENTSSSSQSQRWADLYMGMYRG TASVLSNIVPEETD  
HPLFPVMTSLAHNVMSLEPVFHESFITENLASVQAIVQE AIDREVDDAPS RQPRTEAYYI  
NRLATVGLMPFLILAQWTGGIRLPAFIQDSHSVQTMSQA AAVEMVFLANDIYSYKKEKMAG  
ATQNNVITVIIEDPSTSICEGNLQGSFDYSERLFQDALSRFYTHREMLLENVSDQQNYTADI  
NKFSRAMMDCVVGNIKWSMICRRYAVFECEQARNNEVVKI

>PoSTS16

MPVNIRDIVALHLRRCNIPYEV PVPDVKLQAACLN YAKNHGYEIGGKKT LGPCIPGGVVM  
ASNAFGHIADLPTRVIIGIYTAFMIYLD DISSSDIEAVAQFNQRFYRAEPQLDKVLDDFAQLL  
RDFPNYFCTAGSDMIVTSTLNFVTSLFMDVETEGMDVDGN AKRYPRFARILNGAALAYTL  
LVFPKSLPISSYIQAVPEINVYVENTNDVLSFYKEQ MAGDDIN YASLLSHSYSVTKYEALIH  
LSNIAVDANERILRLLEPVPEALEAYTRFRNGYVR FHTGLGGRYKLAE LKLTNISDYQDRL  
GAHVNQTACKVCQRNLCN

>TvSTS01

MAVIAAAPRPKRIFFPDLIAHCPYPLRYNPHCEAASAESKVWLMSGCRLSKKKRAAFHGL  
KGGLLTAMVYPEADYDQFRVCCDWINYLFHLDNICDEMDDRTTVSTAGVIIGALRDPHGF  
RPASAVGRLTQSFWRMSATASPGAQRRFIETFELFFRAVAQQARDRASGNIPDLESYIAMR  
RDTSGCKPCWALIEYANDLDLPDWVMDHPCVRGLEEAANDLVTWSNDIFSYNVEQSNGD  
THNMIVVVQTQEQLDLQSAVDYVGDLC LGCVDRFETLRAALPSWGPQIDDLAVYVQGL  
GDWMIGNLVWSFETERYFGRSGRKVRRALAVALLPRRK

>TvSTS05

MSSPSSFVLPDLHAVTPFKGSFNPHYPEAAAESEWVNSYKVLSDKKRAFFLQGGSELLC  
AHAYPYAGYQQFRTTCDFVNLLFTVDEISDDQNGKGAYETGLTFYNAMSNPAYDDGTVL  
CKMTKEFTARLLEHCGPQTYRRFIKHCKDYIEAVAVEADLRERGEVLDLEAYQTLRRENS  
AVRFCFGLAGYALGIDLPDEVVEHPAFMAMHLSTVDMVCWSNDLYSYNMEQAMGHTGN  
NVITVLMQHKGLDLQGAADYTG VHFKGLIDTFLDAKRSLPSWGP KLDGEVAQYAMAME

TWVIGNLNWSFETQRYFGHARHEIKRTRVVQLYPRRIVEESSDEEDN

>TvSTS06

MTSTTKHPLPSHFILPDLLDQWPFETEPNPHQEIVDD SARWVESYKAFSPKAQDAFNRCNF  
GIFASLAYPRSEGETHYRAACDLMNLFVFDEFSDAENG DVVRQQAADIMNALRYPDKIPA  
GGDSILGAMTRDYWKRTLEVSSKSSAERFIRNFDGYTDAVRQEAVDRDEGRERSIEEYME  
LRRGTIGVYPSFDYFLLEDDIPDEYIDHPAVASLALGAVDMTILANDVYSWNVEQCRGEDR  
HNLVAVAMREKGLSVQEAMDYVGTIYAGIRDKYVKEFNELPQFPEKYDKLVKDYCWWM  
GNWVTTNIKWSHFGERYFGKKGREILKHRTVEVMRPSVLGWVMRKSYP LIVTVKYAPRE  
YYYIAVTFLMLLLALLSSPSRARILGHSSFPSSF

>TvSTS07

MSRSLRLPDTLSRWPYPRRINPAYEEVSAESA AWLRSFHAFSDQAQVAFDKCKFGLLASLT  
YPNVDKDHLRAACDLMNVFFVFDEQTDIADTTTRTRELADIVIDAVRHPDRPRPEGEPIVGE  
ITRQFWAHACVNSTASGRARFEQEWTRYVESVVGQAEDRDAGRLRTTEEYLELRRFTIGA  
DPSYALAMARVDLPLAVSELPVFRKLRGCITDMLIFDNDLLSYRKEYAAGDDMHNITLV  
MNEKQIDVDAAVEWLAAEHAKRVDEFFVLWPQASAMSGSDELNQAVATYLDHLVNW  
RGDECWSFESGRYFGKDGARVKKERVIELKTRD

>TvSTS12

MSVEQLRPFPTHFRLKDLTAITSPVFEFKTNPHQEAAAQATNVWFERRNVYHGLKKQKFL  
SHRFD SYAGMSFPDADAAHLETCIAFFFWAFSFDLLSDEGALQSKPDAVQVGVDISMEVL  
KNPAAPAPNFPYAAMLHDIWRRFRSTASPGACNRFYRAVESWMNSQVEQARNRSTDEIPS  
VEDFIILRRRTIGGPIVEAMVEYSLNLQIPEYVWDHPVLQEMSKAVIDIMTWPNDLCSFNK  
EQADGDFQNLVFCIMIERDVDLQRAVDILTDMLAQRVADYVRYRDQLPSFGPEVDAELAR  
YNKAMEQYTQGTVVWYYSYSPRYFRGQDVSGKTEIVVPVYERAAPVEEAAPAPHVSTTDS  
EKGAVYASFRFPFSAFPHLSLLLLSLFACLLYVNLPSLGLRLALP

>TvSTS14

MPYIQDACSSPLPLCASVDAITEIKDILKDFLRRLNYRSPHTPANAKLRAEVTAEIASWNAD  
LSPSFKHGLAETCYTIAESAYAHTSYEHQRIIALYTTYLT YVDDLGGRDLDALGEFGRLL  
AREALGDSALDRLVTNLQDMYAYPRLSAHSIAVSTLDFFVGSYVEATGKEMAVAPGATK  
YPGYMRMKTGIGAAYALFNFKDWRDPADHFFLQLIPEIEFYTD TINDILSFYKESLAGET  
DNLHLRAAAEQKDPLSVLRDVVEETLESIRKVEVLTAADPQLAKICRSYVVG YVEFHFR  
KRYRLEDLEMEY

>TvSTS16

MVAEVLPS PANPFLVYANGVSPILPTSLSHIDGHVYRSGSNDSNGLSRLLVTGPQGLPPAITP  
EAIQEMKAIMQDFLQQCN YEDPSTPKDIELRERMALEMAAWSLDLPATFIEQVHETSCHFI  
ETAYVHTTLEHRFFVARYCAYFLYADDLPGRCLDALIQFPRRFANREQQLDPILNRLAEMIR  
GAHELWTDVGASAIAGTLDALTA FYIEYTTCGLAVKPQAVRYPYYLR LKSGIDPPFVAFIF  
MRGWRDTAESYVQMLPEIEY WIGATNDLLSFYKEELAQETNNYIHIRAAMEQTTGLVILR  
KLADEILD TTRIEGLAAEDAELAALWHGYKQGFLEFQIKAPRYRLSDLGLTE

>DS3

MTPTDIDNTSSHSNLYTAIIFDLGDVLFTWSLSSNPPLPEKLLRRILSSSHWFEYEKGNINEA  
EVYSLVARDFLVDPAALKNTLQVAQDSLQSNKKMLGVIQELKEAGLLIYAMSNISAPYLEI  
LERKATPSQWALFDHVFTSASAHQRKPNLGFFKHVIERTGIDPSCTIFVDDKLE NVLTARSF  
GMHGIIFDNESKVIKDLKNLCYDPVLRGKRFLTSHKKNLKT VTSNGIEFMDDYSQLVILLA  
TGDDSLVDYVKSPGQFNVPDGT LFTTEVYPNDLDTTAIGLTVTDHVDAGTKHKIMDEML

EYRDSGDGIIQVYFDHSRPRIDPVVCINVLNLCENGRGHELPETLDWVEQVLIHRAYISGTT  
YYIGADVFLFFLSRLLQNSAEVRRRLGSIFKERVIERFGVKGDSL SLSARMIAATVAGVIDE  
GALKNLLSMQCEDGSWDDSWFWRWGMSPIMAKNDGVT TALAIWAIERVQSLRKE

>SiTPS

MPSVSPATIRLPDILGAMDRFELRTHPDEREVTRASNEWFNSYNMMPALFEKFVKCDFGL  
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HKFRPYAGLPVATAFHDFWTRFCATSTPKMQKRFTDTTYEYVMAVKNQCGNRQSSRCPTI  
EEYVALRRDTSIAIKVTYACIEYCLNIDVPDEAFYHPSVAALQEAGNDILSWANDVYSFDNE  
QSSGDCHNLVAIVAINKNITVQAAMEYVMGMIDSAIERFFEECANVPSFGPEVDPLVQAYI  
KGVELYLSGSVFWHLESERYFGARVQHVKDTLMVELRPLDEGAKPAFDLMYKLP SNLTP  
EVL SAAAVSAAPAAPVAPVAPQPEILSPTPISPINVNFP LGNVACPPPSYETQ RVLAKMVA  
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MAGSPMALVPFVPLLALLLPNETPVAPVA

>IIIS

MSQQSEAQTHAASEAPAQQPEMLYLPETMKNWPWPRAINPYEEVTRESNAWFKSFKPF  
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VIDAIKNPSKPRPEGEIILGEIARQFWARGEKTATPEAAKH FVEAFTDYLSNVIVQASDRDN  
DKIRTVDEYFQTRRENIGARPSYVPGELHLSIPDYAFYHPVMKELEYLIADLIILDNDIASY  
NKEQATGDDRHNILTIVMHQFNLSLPDAMKWVVKYHDEVEAKFLDGLKRVPSWGKEVD  
DQVAVYIEHXLLVGLAATTAGTSRVAGISVARDLR SRRLVWCPFSQRESWLLTFTRKMSKF  
LL

>LbSTS4a

MAPTTQQQLHIPDLLSILNIQSDTNPYEDVVRPETEKWVSSYGIFTGT SWDKFLASDVPRF  
SSRTFSYADRDKLRDCTDFCLLMFALDDITDDEDQKEGTLTGQACIRTMQSDGPLLSSSPG  
ERMIKDYRARFFKSTGPVLQRRLLKDWEATFNAFPKELEVRESKEVLSIEEYTLIRRDNCA  
LRMGFTHIEYALGIELPDEVYQNPVFNEMYLAALDMAWLLNDVYSYGKEHAKGQATWN  
YLTCVMHEKSIDLQTAADYSGIKFRELYDRFIDGKSRLPSWGKPLDS DVAVFLEGLGIWLA  
GTLRWCFEMPRYFGPRYEDVRFTYLVDLGVFEG

>LbSTS6

MLTDLAYWVRTFLAFDVGTIKGAPLEPLLEKLSTQSVIADPHDEIKNAVTNLLAECNLPPF  
VTPYNHEFHNAACCQVARSKGYAMETYPGARSLHPFMPGGVVMATTAYAHLDNKSTQIFIA  
LYTAFLIYLDDVFQHDIELVYCFNERFILCQPQDDPVLDGFASLLREFPQHFGRVVSNIMTT  
STLNLVTALLLEHETQNMKSSLDAHNYPTFSRVMSGASETYALFAFPQIPMPFYIQALPED  
MMFINNVNDVLSFYKEDSAGETVNRVSNLARCHGVSKMEVIHRLSQDAATCHSQVLRILS  
PHRDAHTAYANFSQGYIGFHASLARYRLNELFS