

Additional File S2: The full-length amino acid sequence of NjTPS in this study

>NjTPS-1

MYENKEDMNPIVLQLAKLDYNMVQAVHLEDLKNVSRWWKSTSLGENLSFA
RDRLMENYIWTVEANFEPHLQYSRRMNTKVFALITTIDDVYDVYGTLDL
KLFTDILERWDVNAIDQLPDYMKICFLVLFNTVNDMGYDALKNQNFNIIP
HLRNAWVDLCKSYMVEAKWYNNGYIPTLDEYLENAWISISAPTILLHAYA
FYSNPLTIDAFQCFEKNPNLVRWSSILRLSNDLGTSNDELKRGDTLKS
VCYMHETGVSEEKAREHIHYLVSETWKKMNEDRVIKDSPISNQVFVETAM
NIARMSQCMYQHGDGHGIENRETKDRVLSLLINPIHI

>NjTPS-2

MVRILDLKPRMDAVYHWINPSPLDKNTEELIEKIRERFEKVDLSISAYDT
AWVAMVTSALRHQEPFCFPGCLEWILENQKADGSWGLNLSHPSLLKDSLSS
TLACVIALQKWNVGEKHIQRGLVFIGSKKYAAVDKYQSSPIGFDINFPAM
IKYANNLGLNLPLDSAFIDLMLHNRDTKLQRCKPRDLAYFAEGLVGESSY
DWEEIKNQGSGNSLFSNPAATAAVLINRNDKCYDYLNLSLLKINHGKG
VPTIYPFHLRYTRLCMVDTIDRLGINRHFANELKVILDETYRCWLQKSEEI
YSDVSCCSMAFRLLRKNGYHVSSDALEEFIDEEHFFSTLSPQFRNTSTVV
QLYRASQMSFFQKEPVLDKINEWTNFLRHQLLNHEIFDDDLLREVNYAF
EYPIDNMPRLTNRRGIELYNTDSFRMLKTSYRCCSVNNEEFLVLSQQEFN
KTQQIHLEEYKQVEEWLKKHRIGGLEFEWHMVTSSYFLAASGYIPELSD
ARIIWAKVSVLGTIIDDLFDIDGTQEELNLLHLIQNWGDGNSNISSLDYS
SERTEIMFLALTEINEQAAGLIRQGRCIKKELIQVWQNFCKSCFKDVE
WWANKSTPTLDEYLANGCQTSGIGLWSTTFYFVGIQLSQDTLISEEYQII
YKHLGLIMRLFNDYQGVIDERDKVQRKMNGCLLLVSLSGGALTIEEARTE
VRKMIDISRKEVLRMMLTASSTTQKILMESFFCFHQQAYYLYTGNDKYRI
PSKKGLNDINRLLYEPLNLLPSYIREDKFA

>NjTPS-3

MVRILDLKPRMDAVYHWINPSPLDKNTEELIEKIRERFEKVDLSISAYDT
AWVAMVTSALRHQEPFCFPGCLEWILENQKADGSWGLNLSHPSLLKDSLSS
TLACVIALQKWNVGEKHIQRGLVFIGSKKYAAVDKYQSSPIGFDINFPAM
IKYANNLGLNLPLDSAFIDLMLHNRDTKLQRCKPRDLAYFAEGLVGESSY
DWEEIKNQGSGNSLFSNPAATAAVLINRNDKCYDYLNLSLLKINHGKG
VPTIYPFHLRYTRLCMVDTIDRLGINRHFANELKVILDETYRCWLQKSEEI
YSDVSCCSMAFRLLRKNRYHVSSDALEEFIDEEHFFSTLSPQFRNTSTVV

QLYRASQMSFFQKEPVLDKINEWTTNFLRHQLLNHEIYDDHLLREVKYAF
EYPIDNLPRLTNRRRAIELYNIDSFRMLKTSYRCCSVNNEDFLVLSQQEFT
RTQQIHLEEYKQVEEYLYMHTSLNIHLRMNVK

>NjTPS-4

MSLTIFSSLKFVTSSTQLPSNGRIRQTQFIKCIPDDTRTCDQAIAMPRRL
ANYHPSIWEDDYVQSFNNYTGESWSKRASELKEEVRGMFVGKVEDSLMKV
ELIDTLQRLGISYQFEHEIKNTLENIYNEHYRSEWRNNKEDYNLFAIALE
FRILRQHGYNVPQEIFNKFDDHGNFKSSLCQDIKGMLYFYEASFLSIRG
ESILDDARDFTTKTLEEYLNKNNKLVNNLDEILDLLVDHALELPLHWRML
RLEARWFIDVYERKQDQDVTTLLEFAKIDFNMVQASHQEELKQMSRWKST
YLGEKLRFARDRLMENYFWTTGVMFEPEYEYSRRMSTKINSIVTIIDDIY
DVYGSLQELQLFTNAVQRWDMKAMDELPDYMKICFLALYNSTNEMAYNTL
VQKGVYVISPLTKAV

>NjTPS-5

MDRSWMKKSRGDREYYLGVTEFLEFVKNNCQSPTGLYNCPCKRCNNMCDR
LTLEDIYNHLINFGIMQTYTVWNLHGEVSDIRSSYIRNTVDPEINLTMDF
VQDAFPFHELYDPPVLGDPVPHVDPIAEEALTNQQLLHEAQTPLYEGS
SETALGALLEAMSIKGSTNTSDATFTKWAKEHRLLPAGNKYPESYAAAR
KSLKNIGMGYETIHACYYGCYLFYKEGALYEQCPVCGESRWEEDRTDGGK
RVPRKTVRYFPLTPRLQRLYMSPTAKEMRWHGERERDDDFLRHPGDGEA
WKDFDRSYPQFAREFRNVRLALATDGFSPYGSTAVPYSLWPIVVIPYNFP
PSMCMKKEFNILTMLISGPKSPGKCLNVFMRPLIDELKVLWDTGVSTWDR
HGSESFMMRAAVMWTISDFPGLGMLGGIQTGKYKACPVCLDDIDATHSRS
RMSYMGARRWLPNDHRYRTDARAFNGKEERRAAPVTRSGSQVYEATLKHE
YPVLSLHPHKDFSKGKEKLCWTHPSIFWELPYWKKSRVRHALDVMHIEKN
VCDNVFGTVLGLDGKTKDDAKARKTLEDMGIRPHLWVKVGSSVKSTLPPA
IYTVPPKDRTDVFQISAVKYPRGYAGSLKNKVNVSDDKKFYGLKTHDCHV
LLQRVLPVVIRPYLGKYVADALVELSRFFQMLCARELKKSDVRQMOTDIV
MILCKLEMIFPPAFFTIMVHLCIHLPEQALLTGPHVHYTCMPVVLFKCRW

>NjTPS-6

MAFRLLRINGYQVSSDVLGEFVEQEHYLKTVSLQFTNTETIIQLYRASQI
PLYQNESILDKINAWTSTFLRHQLLNKQIYDERLRKEVEYAFGYPIYINLD
RLRHRRGIELYPTDKFRMLKTSYRSSNIDNKDFLMFAQDDFNKCAVQLE
EIQQLEKWAKNSRIANLDFDWHILTSSYIMKSGSLFAPEFKDSRIAWTQN
SFVGTIIDDVFDDIDGSKEELNLIELVERWDGHSNVSDVAYSSERIEILF
LAIQEIVNDQASRFLTRNGRCAKHEFLQMWRNFLGSMFREWEWWKTMSTP
TLDEFLTNGIITIGTGLFTINFYFLGVELSNYLKFSEEYRMLESHLGGIA

RLYNDYQSLERDLIQRKMNACYLIVSNSHGTKTLEDAKAQVRKMIEFRNR
EALRMLLQPDPSVIPKQVVESFFNLNKLCCYYLYHEADEFRAPGKTLDDI
RALLYDPINLL

>NjTPS-7

MFKSNKVELSASPYDTAWVAMVPSPNSSNAPCFPECLDWLLKNQLGNGSW
GLPSHSHLLLKDTLSSTLASVLALKRWNVGQSHINKGLHFMELNFQSAID
KNQHSPIGFDIIFPGMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYE
SKAEAYLAYVSEGMGKLQQDWEIVMKKYQRKNGSIFNSPATTAAVLTHHL
PDAASLNYIRLLLDKFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDE
IQTVLDETYRCWLQGDDEQIFTDISTCAIAFRLLRMNGYDVSSDALAQIAE
EGNYLNSPGDRNLKGISDELELYKASQIIISPDESRLRKHNSKSSHILKY
ALSNDSEFCSDKLATYIRQEVDDGLKFPFYASLERMENRRNIEQYSADCSV
IRVLKTSYCSNIGNKDFLKLAIEDFNFIQSIHREEIKHVESWVIEGKLD
KLKFARQREAYCLFSAAATFFTPELSDARIWAQNAVLTIVVDDFFDNAG
SPHEFLNLIRLAEK

>NjTPS-8

MMLASSHYGHKTTTASTSTVPSIEGTERIRKMFKSNKVELSASPYDTAW
VAMVPSPNSSNAPCFPECLDWLLKNQLGNGSWGLPSHSHLLLKDTLSSTL
ASVLALKRWNVGQSHINKGLHFMELNFQSAIDKNQHSPIGFDIIFPGMLN
YAKDLDLKLPLEPTLLNAMLHTRDLELNRCYESKAEAYLAYVSEGMGKLQ
QDWEIVMKKYQRKNGSIFNSPATTAAVLTHHLPDAASLNYIRLLLDKFGN
AVPTVYPLDIYVRLCMIDNLERLGIDWHFRDEIQTVLDETYRCWLQGDDEQ
IFTDISTCAIAFRLLRMNGYDVSSDALAQIAEEGNYLNSPGDRNLKGISD
ELELYKASQIIISPDESRLRKHNSKSSHILKYALSNDSEFCSDKLATYIRQ
EVDDGLKFPFYASLERMENRRNIEQYSADCSVIRVLKTSYCSNIGNKDF
LKLAIEDFNFIQSIHREEIKHVESWVIEGKLDKLKFARQREAYCLFSAAA
TFFTPELSDARIWAQNAVLTIVVDDFFDNAGSPHEFLNLIRLAEKWNVD
IESDCCSKEVGILFFAIHNANTEIADKAFICQGRSVTNHIVQIWLDYLKA
LWIEAEWTRNKYVPSVDEYMEYITVALGPIILPALYVVGEELSEEAVR
SIEFNKMFQLVSSCGRIINDTQTLERETEQQGLNIVSLLMIHGGITKEEA
IDEARNLIKQREELSLVVKKGSVVPACKELFWKMAKVLHLFYDHDDG
LTSHHLMKAVNDIIEPI

>NjTPS-9

MMLASSHYGHKTTTASTSTVPYKKQSIEGTERIRKMFKSNKVELSASPY
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SSTLASVLALKRWNVGQSHINKGLHFMELNFQSAIDKNQHSPIGFDIIFP
GMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYESKAEAYLAYVSEGM

GKLQQDWEIVMKKYQRKNGSIFNSPATTAAVLTHHLPDAASLNYIRLLLD
KFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDEIQTVLDETYRCWLQ
GDEQIFTDISTCAIAFRLLRMNGYDVSSDALTAIAEEGNYLNSPGDRNLK
GISDELELYKASQIIISPDESRLKHNSKSSHILKYALSND SFCSDKLAT
YIRQEVD DGLKFPFYASLERMENRRNIEQYSADCSVIRVLKTSYCS PNIG
NKDFLKLAIEDFNFIQSIHREEIKHVESWVIEGKLDKLFARQREAYCLF
SAAATFFTPELSDARI IWAQNAVLTIVVDDFFDNAGSPHEFLNLIRLA EK
WNVDIESDCCSKEVGILFFAIHNANTEIADKAFICQGRSVTNHIVQIWLD
YLKALWIEAEWTRNKYVPSVDEY MENAYITVALGPILPALYVVGEELSE
EAVRSIEFNKMFQLVSSCGRIINDTQTLEVIHHTHT

>NjTPS-10

MSSFLQTASSHYGHKTTTASTSTVPYKKQSIEGTKERIRKMFKSNKVELS
ASPYDTAWVAMVSPSPNSSNAPCFPECLDWLLKNQLGNGSWG LPSHSHLLL
KDTLSSTLASVLALKRWNVGQSHINKGLHFMELNFQSAIDKNQHSPIGFD
IIFPGMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYESKA EAYLAYV
SEGMGKLQQDWEIVMKKYQRKNGSIFNSPATTAAVLTHHLPDAASLNYIR
LLLDKFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDEIQTVLDETYR
CWLQGDEQIFTDISTCAIAFRLLRMNGYDVSSDALTAIAEEGNYLNSPGD
RNLKGISDELELYKASQIIISPDESSALRKQNLQSSNFLKQMLSDDSYCS
DKLSRSISQEVDDALNFPFCASLERMANRRYIEQYNVDTSTIRVLKTSYF
SSNIGNKDFLKLAVEDFNK CQSRHREDAAYLARWVIENRLDKLKFVRQKS
FGYMSFSAAATSFTP KLSDARMSWAKNALLTTVVDDFFDIGGSMDELLNL
IYLVDKWDNVDIESDCCSEHVGIIFSA LQRGINEIAELAFVYQERNVTSH
IVEIWLDLLKSMLREAEWSRDYVPSMEEYMENGYVSFALGPILLPALYL
VGPKLSDESARSFQLKKLFRLMSNCGRLLNDIQGFKRESKEGKLNSVSLR
MMMMMNEGDTDEGIIVNELKMLVESYKEELLRIVIEEKESVLPRECKELF
WKMTKV VHQFYLKDDGFTSQHMMKAVNDVIYQPIILEEHQLK

>NjTPS-11

MYLSQSFTLT KTYYPYRITASFHSHTAKTATNATTTTTTVPSIEDGSKER
IRKLFKKVEVSVSSYDTAWVAMIPGRDGYGPIFPECLDWLLNNQLHDGSW
GLNPPFLLKDTLSSTLASILALKRWGVGQHHINKGMKFM DLNFHSAIDKN
HHSPIGFDIIFPGMLDYAKDLDLKLPLKPA LSDAIFLNRESELKRCYESE
AHERDAYLAYVSEGIGKSQDWKMVMKHQSKNGSLFN SPATTAAALTHHLP
SDSGLLNYIRLLH KFGNAVPTSYPVDIFVRLCMIDNLERLGIDWHFRDE
IQSVLDETYRCWIKGDEEIFMDVSTCAIAFRLLRMNGYDVSSDLLIRTAE
ENDCFSSSGHLKGISDTLELYRASQIIISPDEFNL RKHNSKSSHILKYA
LSND SFCSDKLATYIRQEVD DGLKFPFYASLERMENRRNIEQYSADCSVI
RVLKTSYCS PNIGNKDFLKLAIEDFNFIQSIHREEIKHVESWVIEGKLDK
LKFARQREAYCLFSAAATFFTPELSDARI IWAQNAVLTIVVDDFFDNAGS
PHEFLNL

>NjTPS-12

MMLASSHYGHKTTTASTSTVPYKKQSIEGTKERIRKMFKSNKVELSASP
DTAWVAMVPSPNSSNAPCFPECLDWLLKNQLGNGSWGGLPSHSHLLLKDTL
SSTLASVLALKRWNVGQSHINKGLHFMELNFQSAIDKNQHSPIGFDIIFP
GMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYESKAAYLAYVSEGM
GKLQQDWEIVMKKYQRKNGSIFNSPATTAAVLTHHLPDAASLNYIRLLD
KFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDEIQTVLDETYRCWLQ
GDEQIFTDISTCAIAFRLLRMNGYDVSSDALTAEEGNYLNSPGDRNLK
GISDELELYKASQIIISPDESNLRKHNSKSSHILKYALSNDSFCSKDLAT
YIRQEVDDGLKFPFYASLERMENRRNIEQYSADCSVIRVLKTSYCSNIG
NKDFLKLAIEDFNFIQSIHREEIKHVESWVIEGKLDKLFARQREAYCLF
SAAATFFTPELSDARIWAQNAVLTVVDDFFDNAGSPHEFLNLIRLAEK

>NjTPS-13

MMLASSHYGHKTTTASTSTVPYKKQSIEGTKERIRKMFKSNKVELSASP
DTAWVAMVPSPNSSNAPCFPECLDWLLKNQLGNGSWGGLPSHSHLLLKDTL
SSTLASVLALKRWNVGQSHINKGLHFMELNFQSAIDKNQHSPIGFDIIFP
GMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYESKAAYLAYVSEGM
GKLQQDWEIVMKKYQRKNGSIFNSPATTAAVLTHHLPDAASLNYIRLLD
KFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDEIQTVLDETYRCWLQ
GDEQIFTDISTCAIAFRLLRMNGYDVSSDALTAEEGNYLNSPGDRNLK
GISDELELYKASQIIISPDESSALRKQNLQSSNFLKQMLSDDSYCSDKLS
RSISQEVDDALNFPFCASLERMANRRYIEQYNVDTSTIRVLKTSYFSSNI
GNKDFLKLAVEDFNKCCQSRHREDAAYLARWVIENRLDKLKFVRQKSFGYM
SFSAAATSFTPKLSDARMSWAKNALLTTVVDDFFDIGGSMDLNLIIYLV
DKWDNVDIESDCCSEHVGIIFSALQRGINEIAELAFVYQERNVTSHIVEI
WLDLLKSMLREAEWSRDYVPSMEEYMENGYVSFALGPILLPALYLVGPK
LSDESARFQLKKLFRLMSNCGRLLNDIQGFKRESKEGKLNSVSLRMMMM
MNEGDTDEGIIVNELKMLVESYKEELLRIVIEEKESVLPRECKELFWKMT
KVVHQFYLKDDGFTSQHMMKAVNDVIYQPIILEQ

>NjTPS-14

MMLASSHYGHKTTTASTSTVPYKKQSIEGTKERIRKMFKSNKVELSASP
DTAWVAMVPSPNSSNAPCFPECLDWLLKNQLGNGSWGGLPSHSHLLLKDTL
SSTLASVLALKRWNVGQSHINKGLHFMELNFQSAIDKNQHSPIGFDIIFP
GMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYESKAAYLAYVSEGM
GKLQQDWEIVMKKYQRKNGSIFNSPATTAAVLTHHLPDAASLNYIRLLD
KFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDEIQTVLDETYRCWLQ
GDEQIFTDISTCAIAFRLLRMNGYDVSSDALTAEEGNYLNSPGDRNLK
GISDELELYKASQIIISPDESNLRKHNSKSSHILKYALSNDSFCSKDLAT

YIRQEVDDGLKFPFYASLERMENRRNIEQYSADCSVIRVLKTSYCSPNIG
NKDFLKLAIEDFNFIQSIHREEIKHVESWVIEGKLDKLFARQREAYCLF
SAAATFFTPELSDARIWAQNAVLTVVDDFFDNAGSPHEFLNLIRLAEK

>NjTPS-15

MMLASSHYGHKTTTASTSTVPYKKQSIEGTKERIRKMFKSNKVELSASPY
DTAWVAMVPSPNSSNAPCFPECLDWLLKNQLGNGSWGLPSHSHLLLKDTL
SSTLASVLALKRWNVGQSHINKGLHFMELNFQSAIDKNQHSPIGFDIIFP
GMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYESKAAYLAYVSEGM
GKLQQDWEIVMKKYQRKNGSIFNSPATTAAVLTHHLPDAASLNYIRLLD
KFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDEIQTVLDETYRCWLQ
GDEQIFTDISTCAIAFRLLRMNGYDVSSDALQIAEEGNYLNSPGDRNLK
GISDELELYKASQIIISPDESRLKHNSKSSHILKYALSNDSFCSDKLAT
YIRQEVDDGLKFPFYASLERMENRRNIEQYSADCSVIRVLKTSYCSPNIG
NKDFLKLAIEDFNFIQSIHREEIKHVESWVIEGKLDKLFARQREAYCLF
SAAATFFTPELSDARIWAQNAVLTVVDDFFDNAGSPHEFLNLIRLAEK
WNVDIESDCCSKEVGILFFAIHNANTEIADKAFICQGRSVTNHIVQIWLD
YLKALWIEAEWTRNKYVPSVDEYMENAYITVALGPILPALYVVGEELSE
EAVRSIEFNKMFQLVSSCGRIINDTQTLERETEQGKLNIVSLLMIHGGIT
KEEAIDEARNLIKRRQREELSLVVKKGSVPRACKELFWKMAKVLHLFYD
HDDGLTSHHLMKAVNDIIEPIP

>NjTPS-16

MMLASSHYGHKTTTASTSTVPYKKQSIEGTKERIRKMFKSNKVELSASPY
DTAWVAMVPSPNSSNAPCFPECLDWLLKNQLGNGSWGLPSHSHLLLKDTL
SSTLASVLALKRWNVGQSHINKGLHFMELNFQSAIDKNQHSPIGFDIIFP
GMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYESKAAYLAYVSEGM
GKLQQDWEIVMKKYQRKNGSIFNSPATTAAVLTHHLPDAASLNYIRLLD
KFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDEIQTVLDETYRCWLQ
GDEQIFTDISTCAIAFRLLRMNGYDVSSDALQIAEEGNYLNSPGDRNLK
GISDELELYKASQIIISPDESSALRKQNLQSSNFLKQMLSDDSYCSDKLS
RSISQEVDDALNFPFCASLERMANRRYIEQYNVDTSTIRVLKTSYFSSNI
GNKDFLKLAVEDFNKQCQRHREDAAYLARWVIENRLDKLKFVRQKSFGYM
SFSAAATSFTPKLSDARMSWAKNALLTTVVDDFFDIGGSMDELLNLIYLV
DKWDNVDIESDCCSEHVGIIFSALQRGINEIAELAFVYQERNVTSHIVEI
WLDLLKSMLREAEWSRDYVPSMEEYMENGYVSFALGPILLPALYLVGPK
LSDESARSFQLKKLFRLMSNCGRLLNDIQGFKRESKEGKLNSVSLRMMMM
MNEGDTDEGIIVNELKMLVESYKEELLRIVIEEKESVLPRECKELFWKMT
KVVHQFYLKDDGFTSQHMMKAVNDVIYQPIILEEHQLK

>NjTPS-17

MSSFLQTASSHYGHKTTTASTSTVPSIEGTKERIRKMFKSNKVELSASP
DTAWVAMVPSPNSSNAPCFPECLDWLLKNQLGNGSWGLPSHSHLLLKDTL
SSTLASVLALKRWNVGQSHINKGLHFMELNFQSAIDKNQHSPIGFDIIFP
GMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYESKAAYLAYVSEGM
GKLQQDWEIVMKKYQRKNGSIFNSPATAAVLTHHLPDAASLNYIRLLLD
KFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDEIQTVLDETYRCWLQ
GDEQIFTDISTCAIAFRLLRMNGYDVSSDALQIAEEGNYLNSPGDRNLK
GISDELELYKASQIIISPDESSALRKQNLQSSNFLKQMLSDDSYCSDKLS
RSISQEVDDALNFPFCASLERMANRRYIEQYNVDSTIRVLKTSYFSSNI
GNKDFLKLAVEDFNKQCQRHREDAAYLARWVIENRLDKLKFVRQKSFGYM
SFSAAATSFTPCLSDARMSWAKNALLTTVVDDFFDIGGSMDELLNLIYLV
DKWDNVDIESDCCSEHVGIIFSAALQRGINEIAELAFVYQERNVTSHIVEI
WLDLLKSMLEAEWSRDYVPSMEEYMENGYVSFALGPILLPALYLVGPK
LSDESARSFQLKKLFRLMSNCGRLLNDIQGFKRESKEGKLNSVSLRMMMM
MNEGDTDEGIIVNELKMLVESYKEELLRIVIEEKESVLPRECKELFWKMT
KVVHQFYLKDDGFTSQHMMKAVNDVIYQPIILEEHQLK

>NjTPS-18

MFKNKVELSASPDTAWVAMVPSPNSSNAPCFPECLDWLLKNQLGNGSW
GLPSHSHLLLKDTLSSTLASVLALKRWNVGQSHINKGLHFMELNFQSAID
KNQHSPIGFDIIFPGMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYE
SKAEAYLAYVSEGMGKLQQDWEIVMKKYQRKNGSIFNSPATAAVLTHHL
PDAASLNYIRLLLDKFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDE
IQTVLDETYRCWLQGDEQIFTDISTCAIAFRLLRMNGYDVSSDALQIAE
EGNYLNSPGDRNLKGISDELELYKASQIIISPDESRLKHNSKSSHILKY
ALSNDSFCSKDLATYIRQEVDDGLKFPFYASLERMENRRNIEQYSADCSV
IRVLKTSYCSNIGNKDFLKLAIEDFNFIQSIHREEIKHVESWVIEGKLD
KLKFARQREAYCLFSAAATFFTPELSDARIWAQNAVLTIVVDDFFDNAG
SPHEFLNLIRLAEKWNVDIESDCCSKEVGILFFAIHNANTEIADKAFICQ
GRSVTNHIVQIWLDYALKALWIEAEWTRNKYVPSVDEYMEYITVALGPI
ILPALYVVGEEELSEEAVRSIEFNKMFQLVSSCGRIINDTQTLERETEQQK
LNIVSLLMIHGGITKEEAIDEARNLIKREELLSLVVKKGSVVPRACTE
LFWKMAKVLHLFYDHDDGLTSHHLMKAVNDIIEPI

>NjTPS-19

MFKNKVELSASPDTAWVAMVPSPNSSNAPCFPECLDWLLKNQLGNGSW
GLPSHSHLLLKDTLSSTLASVLALKRWNVGQSHINKGLHFMELNFQSAID
KNQHSPIGFDIIFPGMLNYAKDLDLKLPLEPTLLNAMLHTRDLELNRCYE
SKAEAYLAYVSEGMGKLQQDWEIVMKKYQRKNGSIFNSPATAAVLTHHL

PDAASLNYIRLLLDKFGNAVPTVYPLDIYVRLCMIDNLERLGIDWHFRDE
IQTVLDETYRCWLQGDEQIFTDISTCAIAFRLLRMNGYDVSSDALTQIAE
EGNYLNSPGDRNLKGISDELELYKASQIIISPDESSALRKQNLQSSNFLK
QMLSDDSYCSDKLSRSISQEVDDALNFPFCASLERMANRRYIEQYNVDTS
TIRVLKTSYFSSNIGNKDFLKLAVEDFNKCCQSRHREDAAYLARWVIENRL
DKLKFVRQKSFGYMSFSAAATSFTPKLSDARMSWAKNALLTTVVDDFFDI
GGSMDELLNLIYLVDKWDNVDIESDCCSEHVGIIFSALQRGINEIAELAF
VYQERNVTSHIVEIWLDLLKSMLREAEWSRDRYVPSMEEYMENGYVSFAL
GPILLPALYLVGPKLSDESARSFQLKKLFRLMSNCGRLLNDIQGFKRESK
EGKLNSVSLRMMMMMMNEGDTDEGIIVNELKMLVESYKEELLRIVIEEKES
VLPRECKELFWKMTKVVHQFYLKDDGFTSQHMMKAVNDVIYQPIILEEHQ
LK

>NjTPS-20

MLESMDGGEISVSAYDTAWVALVEDINGSGAPQFPSSLDWIADNQLPDGS
WGDYIFSAFERIINTLACIIALRTWNIHHQKSEKGMLFIKENIGKLEEE
NEEHMPIGFEVAFPSLVEIAKNLGIQIFPEESAVLQEIYARRNLKLTRIP
KDIMHKIPTTLLHSLEGMKELEWEKLIKQCKDGSFLFSPSSTAFALIHT
HDSNALSYLNTNTVHKFNNGGIFLFHYWKLLFFLLFLLIMWVHTTLCFLS
VPNVYPVDLFEHIWAVDRLQRLGISRHFKSQIKDCLDYVHKYWREEGICW
ARNSPVQDIDDTAMGFRLRLHGYPVSAADVFNFKNGEEFFCFNGQSNQA
VTGMYNLLRASQIVLPGEKILEDAAKFSYQFLKHKRAANQILDKWIITKD
LPGEVNYALDMPWYASLSRVETRYYLEQYGGQDDVWIGKTLYRMSKVNNN
TYMELAKLDYTNCQAMHLEEWSRIKQWYEECKLGEYGASQESLVLLAYYL
ASASIYEPEKSKERIAWAKTTTLMETIMSYFGTKNMSIEQRRSFVRDFKK
CSNNLHFTYGRYKTGQGLMGVLLDTVYQFSLEALRTHGRDIHRHLTQAW
TWMLTWQEEGDMYRGQAELVVRTINLCAGSCSSEEQLLNMMSHQPQYHRLS
QLTNKICHRRLRFQSHKEYEGESINTENGGINEEEIEADMRELVEAVIYN
EDDDVDGNIKQTFLTVAKTFYYTAYCNPHTISLHISKVLFESLF

>NjTPS-21

MLESMDGGEISVSAYDTAWVALVEDINGSGAPQFPSSLDWIADNQLPDGS
WGDYIFSAFERIINTLACIIALRTWNIHHQKSEKGMLFIKENIGKLEEE
NEEHMPIGFEVAFPSLVEIAKNLGIQIFPEESAVLQEIYARRNLKLTRIP
KDIMHKIPTTLLHSLEGMKELEWEKLIKQCKDGSFLFSPSSTAFALIHT
HDSNALSYLNTNTVHKFNNGGVPNVYPVDLFEHIWAVDRLQRLGISRHFKSQ
IKDCLDYVHKYWREEGICWARNSPVQDIDDTAMGFRLRLHGYPVSAADV
FNFKNGEEFFCFNGQSNQAVTGMYNLLRASQIVLPGEKILEDAAKFSYQF
LKHKRAANQILDKWIITKDLPGEVNYALDMPWYASLSRVETRYYLEQYGG
QDDVWIGKTLYRMSKVNNNTYMELAKLDYTNCQAMHLEEWSRIKQWYEEC
KLGEYGASQESLVLLAYYLASASIYEPEKSKERIAWAKTTTLMETIMSYF
GTKNMSIEQRRSFVRDFKKCSNNLHFTYGRYKTGQGLMGVLLDTVYQFSL

EALRTHGRDIHRHLTQAWETWMLTWQEEGDMYRGQAELVVRTINLCAGSC
SSEEQLLNMMSHPPQYHRLSQLTNKICHLRLRFQSHKEYEGESINTENGGI
NEEEIEADMRELVEAVIYNEDDDVDGNIKQTFLTVAKTFYYTAYCNPHTI
SLHISKVLFESLF

>NjTPS-22

MLESMDGGEISVSAYDTAWVALVEDINGSGAPQFPSSLDWIADNQLPDGS
WGDYIFSAFERIINTLACIALRTWNIHHQKSEKGMLFIKENIGKLEEE
NEEHMPIGFEVAFPSLVEIAKNLGIQIFPEESAVLQEIYARRNLKLTRIP
KDIMHKIPTTLLHSLEGMKELWEKLIKQCKDGSFLFSPSSTAFALIHT
HDSNALSYLNTTVHKFNNGGVPNVYPVDLFEHIWAVDRLQRLGISRHFKSQ
IKDCLDYVHKYWREEGICWARNSPVQDIDDTAMGFRLRLHGYPPVSADVF
ENFKNGEEFFCFNGQSNQAVTGMYNLLRASQIVLPGEKILEDAAKFSYQF
LKHKRAANQILDKWIITKDLPGEVNYALDMPWYASLSRVETRYYLEQYGG
QDDVWIGKTLYRMSKVNNNTYMEALAKLDYTNCQAMHLEEWSRIKQWYEEC
KLGEYGASQESLVLLAYYLASASIYEPEKSKERIAWAKTTTLMETIMSYF
GTKNMSIEQRRSFVRDFKKCSNNLHFTYGRYKTGQGLMGVLLDVTYQFSL
EALRTHGRDIHRHLTQAWETWMLTWQEEGDVYRGQSELVVRTINLCAGSC
SSEEQLLNMMSHPPQYHRLSQLTNKICHLRLRFQSHKEYEGESINTENGGI
NEEEIEADMRELVEAVIYNEDDDVDGNIKQTFLTVAKTFYYTAYCNPHTI
SLHISKVLFESLF

>NjTPS-23

MGFRLRLHGYPPVSADVFENFKNGEEFFCFNGQSNQAVTGMYNLLRASQI
VLPGEKILEDAAKFSYQFLKHKRAANQILDKWIITKDLPGEVNYALDMPW
YASLSRVETRYYLEQYGGQDDVWIGKTLYRMSKVNNNTYMEALAKLDYTNC
QAMHLEEWSRIKQWYEECKLGEYGASQESLVLLAYYLASASIYEPEKSKE
RIAWAKTTTLMETIMSYFGTKNMSIEQRRSFVRDFKKCSNNLHFTYGRYK
TGQGLMGVLLDVTYQFSLEALRTHGRDIHRHLTQAWETWMLTWQEEGDMY
RGQAELVVRTINLCAGSCSSEEQLLNMMSHPPQYHRLSQLTNKICHLRLRF
QSHKEYEGESINTENGGINEEEIEADMRELVEAVIYNEDDDVDGNIKQTF
LTVAKTFYYTAYCNPHTISLHISKVLFESLF

>NjTPS-24

MLESMDGGEISVSAYDTAWVALVEDINGSGAPQFPSSLDWIADNQLPDGS
WGDYIFSAFERIINTLACIALRTWNIHHQKSEKGMLFIKENIGKLEEE
NEEHMPIGFEVAFPSLVEIAKNLGIQIFPEESAVLQEIYARRNLKLTRIP
KDIMHKIPTTLLHSLEGMKELWEKLIKQCKDGSFLFSPSSTAFALIHT
HDSNALSYLNTTVHKFNNGGVPNVYPVDLFEHIWAVDRLQRLGISRHFKSQ
IKDCLDYVHKYWREEGICWARNSPVQDIDDTAMGFRLRLHGYPPVSADVF

ENFKNGEEFFCFNGQSNQAVTGMYNLLRASQIVLPGEKILEDAKKFSYQF
LKHKRAANQILDKWIITKDLPGEVNYALDMPWYASLSRVETRYYLEQYGG
QDDVWIGKTLYRMSKVNNNTYMEALAKLDYTNCQAMHLEEWSRIKQWYEEC
KLGEYGASQESLVLLAYYLASASIYEPEKSKERIAWAKTTTLMETIMSYF
GTKNMSIEQRRSFVRDFKKCSNNLHFTYGRYKTGQGLMGVLLDTPVYQFSL
EALRTHGRDIHRHLTQAWETWMLTWQEEGDMYRGQAELVVRTINLCAGSC
SSEEQLLNMMSHPPQYHRLSQLTNKICHLRLRFQSHKEYEGESINTENGGI
KEEEIEADMRELVEAVIYNEDDDVDGNIKQTFLTVAKTFYYTAYCNPHTI
SLHISKVLFESLF

>NjTPS-25

MSIIATNGTEHPIFRPLANFPSSLWGNLFTSFMDNQAREIYAKEHEGL
KEKVRVMLLDTTNYKISEKINFINTVERLGVSYHFEKEIEELLHQMFDAH
SKLLDDIQEFDLFTLGIYFRILRQHGYKISCDVFNKLKDSNGEFKDELKD
DVNGMLSLYEATHVRTHGENILDEALIYTKAQLESMAAASLSPFLAKQVK
HALMQALHKGIPRIEARNYISVYEEDPNKNDLLSRFSKIDFNLVQMIHKQ
ELCDTFRWWKDLEFESKLSFARNRVVEAYLWTL SAYYEPKYSSARIILVK
IMLILSVTDDTYDAYGTLDELQLFTDAVQRLDMSSINQLPDYMKTIYKAL
LDFDEIEDRLSKHETDHSYRVAYAKYVYKEIVRCYDMEYKWFNKNYVPA
FEEYMQKALVTSGNRLLITFSFLGMDEVATIQA FEWVKSNK MIVSSNKV
LRLIDDIMSHEEEDERGHVATGIECFVKEHGLTREEVIVEFHKRIDDAWK
DINEEFITPNNLP IELTRVLNLTRIGDVVYKYDDGYTHPEKALKDHIIS
LFVDPVSI

>NjTPS-26

MSIIATNGTEHPIFRPLANFPSSLWGNLFTSFMDNQAREIYAKEHEGL
KEKVRVMLLDTTNYKISEKINFINTVERLGVSYHFEKEIEELLHQMFDAH
SKLLDDIQEFDLFTLGIYFRILRQHGYKISCDVFNKLKDSNGEFKDELKD
DVNGMLSLYEATHVRTHGENILDEALIYTKAQLESMAAASLSPFLAKQVK
HALMQALHKGIPRIEARNYISVYEEDPNKNDLLSRFSKIDFNLVQMIHKQ
ELCDTFRWWKDLEFESKLSFARNRVVEAYLWTL SAYYEPKYSSARIILVK
IMLILSVTDDTYDAYGTFDELELFTDAIQRWDM SAINQLPDYMKNIYRAL
LDLYDEIDDQLSKQESNCSYGV TYSKEMFKEMVRSYEIENKWFTKKYVPA
FEEYMKNGLVTGGNRLLVISSFLGMGEVATIQA FKWKSNPKMIIASNTI
VRLIDDIMSHEEEDERGHAAATGIECYRKEHGLTKEEVVVEFYQM NENAWK
DINEEFTRPNNLSVDILMRALNLTRIAEVVYKYDDGYTHPEKTFKDYIIS
LFVDPITI

>NjTPS-27

MSCMRSISSPSQLLSKSYDNIIDSSSSSSRSFSWSFKSKNPAAAACTSM

CLSSRSSPSAVVVPPTSNNNGSFLKYLQQSTVLVPQEIDDNSRTMELIEET
RKELVKVREPVEKMRLIEALQRLGISYHFENEINIILENLSGGGGGRHSDE
DLFTTSLRFRLLRHNGHHISNDVFEKFVDENGKFKESEKEDTMGMLSLYE
ASYMGANGEDILLQAMEFTKNHLKESLPLMESNLGKQVLQSLELPKNLRM
ARLEARRYIEEYSNESDHNLALLELAKLDYNQVQSLHQMELAEISRWWKH
LGLVDKLSFARDRPLECFLWTVGILPEPKDSGCRIELAKTIAILLVIDDI
FDTHGSYDELVLFTNAIRRFDLMINLFV

>NjTPS-28

MSCMRSISSPSQLLSKSYDNIIDSSSSSSRSFSWSFKSKNPAAAACTSM
CLSSRSSPSAVVVPPTSNNNGSFLKYLQQSTVLVPQEIDDNSRTMELIEET
RKELVKVREPVEKMRLIEALQRLGISYHFENEINIILENLSGGGGGRHSDE
DLFTTSLRFRLLRHNGHHISNDVFEKFVDENGKFKESEKEDTMGMLSLYE
ASYMGANGEDILLQAMEFTKNHLKESLPLMESNLGKQVLQSLELPKNLRM
ARLEARRYIEEYSNESDHNLALLELAKLDYNQVQSLHQMELAEISRWWKH
LGLVDKLSFARDRPLECFLWTVGILPEPKDSGCRIELAKTIAILLVIDDI
FDTHGSYDELVLFTNAIRRFDLMINLFV

>NjTPS-29

MSCMRSISSPSQLLSKSYDNIIDSSSSSSRSFSWSFKSKNPAAAACTSM
CLSSRSSPSAVVVPPTSNNNGSFLKYLQQSTVLVPQEIDDNSRTMELIEET
RKELVKVREPVEKMRLIEALQRLGISYHFENEINIILENLSGGGGGRHSDE
DLFTTSLRFRLLRHNGHHISNDVFEKFVDENGKFKESEKEDTMGMLSLYE
ASYMGANGEDILLQAMEFTKNHLKESLPLMESNLGKQVLQSLELPKNLRM
ARLEARRYIEEYSNESDHNLALLELAKLDYNQVQSLHQMELAEISRWWKH
LGLVDKLSFARDRPLECFLWTVGILPEPKDSGCRIELAKTIAILLVIDDI
FDTHGSYDELVLFTNAIRRWDLNAMEELPEYMKICYMALYNTTNEICYKV
LKENGWSVLPFLKTTWIDMIEGFMVEAKWLNNEEVPNLEEYIENGVTAG
SYMALVHIFFLIGEGVNEDNVKLLNPPYKLFSSAGRILRLWDDLGTKE
EQERGDVASSIQLFMKENNITCEEEARNQIIQIVQNLWKELNGELMAPNA
LPLPIIKACLNMARASQVVYQHDGDSYFSNVDNYVQSLFYTPIRM

>NjTPS-30

MSCMRSISSPSQLLSKSYDNIIDSSSSSSRSFSWSFKSKNPAAAACTSM
CLSSRSSPSSAVVVPPTSNNNGSFLKYLQQSTVLVPQEIDDNSRTMELIEE
TRKELVKVREPVEKMRLIEALQRLGISYHFENEINIILENLSGGGGGRHSD
EDLFTTSLRFRLLRHNGHHISNDVFEKFVDENGKFKESEKEDTMGMLSLY
EASYMGANGEDILLQAMEFTKNHLKESLPLMESNLGKQVLQSLELPKNLR
MARLEARRYIEEYSNESDHNLALLELAKLDYNQVQSLHQMELAEISRWWK
HLGLVDKLSFARDRPLECFLWTVGILPEPKDSGCRIELAKTIAILLVIDD

IFDTHGSYDELVLFTNAIRRFDLMINLFV

>NjTPS-31

MSCMRSISSPSQLLSKSYDNIIDSSSSSSRSFSWSFKSKNPAAAACTSM
CLSSRSSPSAVVVPPTSNNGSFLKYLQQSTVLVPQEIDDNSRTMELIEET
RKELVKVREPVEKMRLIEALQRLGISYHFENEINIILENLSGGGGRHSDE
DLFTTSLRFRLLRHNGHHISNDVFEKFVDENGKFKESEKEDTMGMLSLYE
ASYMGANGEDILLQAMEFTKNHLKESLPLMESNLGKQVLQSLELPKNLRM
ARLEARRYIEEYSNESDHNLALLELAKLDYNQVQSLHQMELAEISRWWKH
LGLVDKLSFARDRPLECFLWTVGILPEPKDSCRIELAKTIAILLVIDDI
FDTHGSYDELVLFTNAIRRFDLMINLFV

>NjTPS-32

MISSSSVRSLYFPKTNITSKVPSLLINNINVPSNNSIRACISMSSLPV
SKSTSSSTAAPLIRDNGSLLKFITQTPQVEVDESKRIMELVETTRRTLKR
ASSDPTDKMKLIDSLQRLGLNHHFEEDINVVLQEFANEQKNTNEDLFTTS
LRFRLLRHNGYNVTPDIFNKFTEKNGKFKESEDTIGILSLYEASYLGA
KGEEILSEAIKFSESKLRESAGHVAPQIRRQILQSLELPRHLRMARLESR
RFIEEDYSKEIGCDLSLLELAKLDFNYVQSLHQMELAEISRWWKQLGLAD
KLPFARDRPLECFLWTVGLLPEPKHSECRIELAKTIAVLLVIDDIFDTYG
SFDQLVLFTNAIRRWDL DAMEELPEYMKICYMALYNTTNEICYKVLKENG
WSVLPYLRKTWIDMIEGFMVEAEWLNSGQVPNLEEYIENGVTTAGSYMAL
VHIFFLIGDGVTDNDVKLLLDPPYKLFSSAGRILRLWDDLGTAKVTFN

>NjTPS-33

MCLSSRSSPSAVVVPPTSNNGSFLKYLQQSTVLVPQEIDDNSRTMELIEE
TRKELVKVREPVEKMRLIEALQRLGISYHFENEINIILENLSGGGGRHSD
EDLFTTSLRFRLLRHNGHHISNDVFEKFVDENGKFKESEKEDTMGMLSLY
EASYMGANGEDILLQAMEFTKNHLKESLPLMESNLGKQVLQSLELPKNLR
MARLEARRYIEEYSNESDHNLALLELAKLDYNQVQSLHQMELAEISRWWK
HLGLVDKLSFARDRPLECFLWTVGILPEPKDSCRIELAKTIAILLVIDD
IFDTHGSYDELVLFTNAIRRFDLMINLFV

>NjTPS-34

MNTCIQALSPPPPTKAIQLRPIANFHPSIWGNYFLKYASDHHTQSDDGTD
EQHGQLKEDVRKKLVNDERAGEQLMLIDAIQRLGVAYHFQTEIDVVLNN
QLLKFNEDDDLYMVSLRFRLLRQQGHVSSGVFEKFKDVEGRFKEILIND
VRGLLSLYESTHMRVHKEEILEEALQFTTTHLEHVVKASLTDITILLSQVV
HALNMPIRKGLTRIEARNYIPIYQQDKSHDETLLKFAKLDFNMLQKVHQR

ELGDITRWWKDLNVAEKLPYARDRLVEGYFWILGVYFEPYRSRARKILTK
VFSLISLIDDTYDSYGTFEELSIFTDIAIQRWDVNAKNQLPEYMRHIYGEL
LDVYNAMEEEELSKEGISYRIDYAKQTMKQQVRTYFDEAIWYNNGYVPTME
EYLKVALVSCGYIILATTSFVGMGVSDVTKQDFDWVSSNPLIVQASSVIC
RLTDDDDVGHEFEQERGHVASAVECYMKQHNATKEEALVEFKKRITNAWKD
MNRECLHPLPVPMHLLERVLPNFARFMYLFYKGEDCYTHSETRMKSFITSL
LVESAPN

>NjTPS-35

MDRSIQASSAPLPLSVLEPTRPIANFHPTIWGNVFLKFASDPGTNDDSDI
NQQIAQMKEDVRKMMVNSGDRREQQLKLIDEIQRLGVSYHFKSEIDVVLN
DHLTLNDNGGDLYMESLRFLLRQHGHNVSCDVFEKFKDGEGRFKEYLT
DDVRGLLSLYEATHMRVHKEEILDEALEFTTSHLEQVVKYSLSDHVLASK
VVHALKMPIRKGLTRLEARHYIPIYQMDNSHDETLLKFAKLDFNKLQKLH
QSELGDMTRWWKDFNVAEKLPYARDRFVECYFWALGVYFEPQYSHARRML
TKVIAFISLIDDTYDSYGTFEELSIFTDIAIQRWDVNAKNQLPEYMRHIYG
ELLDVYNAMEEEELSKEGISYRIDYAKQTMKQQVRTYFDEAIWYNNGYVPT
MEEYLKVALVSCGYIMAATTSFVGMGVKAVPKQAFDWVSSNPLMVQASSI
INRLTDDRVGHELEQQRGHVASGVECYMKQHNATEEEVLVEFNKRITSAW
KDMNQECLHPFPVPIHLLERVNLARFMNIFYKDEDCYTHSNTRMKGIIT
SILIESIPS

>NjTPS-36

MNTCIQALSPPPPTKAIQLRPIANFHPSIWGNVFLKYASDHHTQSDDGTD
EQHGQLKEDVRKKLVVNDERAGEQLMLIDAIQRLGVAYHFQTEIDVVLNN
QLQLLNNQDDDLHMOVSLRFLLRQHGHNVSCGVFGKFKDIEGRFKECLMD
DVRGLLSLYESTHMRVHKEDILEELEFTTTHLEQVVKSPFSCSVLVSQV
VHALNMPARKGLTRIEARHFIPIYQQDESHDETLLKFAKLDFNMLQKVHQ
REVADITMWWKDLNVSEKLPYARDRAVECYFWILGVYFEPQYSRARRILT
KVICMTSLIDDTYDSYGTFEELSIFTDIAIQRWDVNAKNQLPEYMRHIFGE
LLDVYGAMEEEELSKEGISYRVDYAKQIMIQLVTAYNHEAIWYHDGYVPTL
EEYLEVALVSCGYIMAATTSFVGMGVKAVPKQAFDWVSSNPLMVQASSII
NRLTDDRVGHELEQQRGHVASGVECYMKQHNATEEEVLVEFNKRITSAWK
DMNQECLHPFPVPIHLLERVNLARFMNIFYKDEDCYTHSNTRMKGIITS
ILIESIPS

>NjTPS-37

MANHYTTTDKWSITQEYLNFEEDTTANCGNFYVENEQKLTQIRRKLMTVDE
DPLDCLKLVDAIHKLIEYHFQDEINDFTERHYTTTMTKNVPIQQGSLF
EGSLSFLLRQQGYVVSANLFKNICYDGQGKFNTKLGQDIMGLMGLYEASQ

LNIEGEDILEEAGIISRRILNSLIGHVNNHENRTIMHMLSHPHYHKS LARS
TAKDFIKVNNVDFGLNVTELPVLQELAKMDLDLVQSIHQKELLEISKWWK
ELGLGKELKFARNQPLKWHMWSIAALTNPSSLSKQRIELTKPISLIYIID
IFDVYGTLDLIIFTKVVNRWEVSTMEQLPDYMKICFRALYDVTNEISYS
VYQDYGWNPVGSLRKAWGSLFDAFLVEAKWFASGNVPKSEEYLKNGIVSS
GANVVLVHMFLLGEGTNKKNAKIVEDYPDIITYVATILRLWDDLGS SKV
KKLNNSALWTLSLSN

>NjTPS-38

MAIPTPQDHIIVRRVADYHPPIWDYDYVQSLTSKYLGD SYQKRADKLKEE
VRNMLNKVEDPLSKLELVDTLQRLGIYYHFEDEIKRILQSIHNDDNYSSD
EENKEDLYTTS LKFRLLRQHGYDIPQEVFSTFKDESGTFKVHVPEDIKGI
LSFYESTFLSTRGESILDEAREFTTQNMKEYLKKIIDINKSDDVMATQVS
HALEMPHWRMLRLETRWFIDVYEKTDNKNEILLEFAKLDYNMVQAIHQK
DLKYTSRWWKSTKLGEKLSFARDRLEENFFWNVGFTFEPQFEYCRRMETK
LLSLITIIDDIYDIYGTLDLDELQLFTNAVERWDINAMEQLPDYMKTCFLSL
YNTINEFAYDALKEQNVNVISILKNSWADLCNSYFIEAKWYHTGYKPNLD
EYLENARISVSAPLILTHAYYFLTYPHPNVALECFEKEYSSLICSTSIIVR
LADDLATSQSEMKGDTPKSIQCYMYETGASEEEAREYIRYLISETWKKM
NEDRVVNKDDSLFSPIFVEMALNIARMGQCIYDHGDGFGIANRETMDRVT
SLFVEPISL

>NjTPS-39

MAYSLLSTFHLSTIPSNDKLLPPRPQLTSIRTSKGSKSSKCMAIPTPQDH
IIVRRVADYHPPIWDYDYVQSLTSKYLGD SYQKRADKLKEEVRNMLNKVE
DPLSKLELVDTLQRLGIYYHFEDEIKRILQSIHNDDNYSSDEENKEDLYT
TSLKFRLLRQHGYDIPQEVFSTFKDESGTFKVHVPEDIKGI LSFYESTFL
STRGESILDEAREFTTQNMKEYLKKIIDINKSDDVMATQVSHALEMPHWR
RMLRLETRWFIDVYEKTDNKNEILLEFAKLDYNMVQVIHQEDLKYTSRWW
KSTKLGEKLSFARDRLEENFFWNVGFTFEPQFEYCRRMETKLLSLITIID
DIYDIYGTLDLDELQLFTNAVERWDINAMEQLPDYMKTCFLSLYNTTNETAY
DALKEQNVNIISFLKNSWADLCNSYFIEAKWYHTGYKPNLDEYLENARIS
VTAPLILTHAYYFLTNPHPNVALECFEKEYSSLICSTSIIVRLADDLATSQ
SEMKGDTPKSIQCYMYETGASEEEAREYIRYLISETWKKMNEDRVVNKD
DSLFSPIFVEMALNIARMGQCIYDHGDGFGIANRETMDRVRSLFIEPISL

>NjTPS-40

MAIPTPQDHIIVRRVADYHPPIWDYDYVQSLTSKYLGD SYQKRADKLKEE
VRNMLNKVEDPLSKLELVDTLQRLGIYYHFEDEIKRILQSIHNDDNYSSD
EENKEDLYTTS LKFRLLRQHGYDIPQEVFSTFKDESGTFKVHVPEDIKGI

LSFYESTFLSTRGESILDEAREFTTQNMKEYLKKIIDINKSDDVMATQVS
HALEMPHWRMLRLETRWFIDVYEKTDNKNEILLEFAKLDYNMVQAIHQK
DLKYTSRWKSTKLGEKLSFARDRLEENFFWNVGFTFEPQFEYCRRMETK
LLSLITIIDDIYDIYGTLDLDELQLFTNAVERWDINAMEQLPDYMKTCFLSL
YNTINEFAYDALKEQNVNVISILKNSVIKFIYLF

>NjTPS-41

MALAYSHLSTFHLSTIPSNDKLLPPPQLTSIRTSKGSKSSKCMAIPTPD
HIIVRRVADYHPPIWDYDYVQSLTSKYLGDYQKRADKLKEEVRNMLNKV
EDPLSKLELVDTLQRLGIYYHFEDEIKRILQSIHNDDNYSSDEENKEDLY
TTSCLKFRLLRQHGYDIPQEVFSTFKDESGTFKVHVPEDIKGILSFYESTF
LSTRGESILDEAREFTTQNMKEYLKKIIDINKSDDVMATQVSHALEMPH
WRMLRLETRWFIDVYEKTDNKNEILLEFAKLDYNMVQVIHQEDLKYTSRW
WKSTKLGEKLSFARDRLEENFFWNVGFTFEPQFEYCRRMETKLLSLITII
DDIYDIYGTLDLDELQLFTNAVERWDINAMEQLPDYMKTCFLSLYNTTNETA
YDALKEQNVNIISFLKNSWADLCNSYFIEAKWYHTGYKPNLDEYLENARI
SVTAPLILTHAYYFLTNPHPNVALECFEKYSSLICSTSIIVRLADDLATS
QSEMKRGDTPKSIQCYMYETGASEEEAREYIRYLISETWKKMNEDRVVNK
DDSLFSPIFVEMALNIARMGQCIYDHGDGFGIANRETMDRVRSLEFIEPIS
L

>NjTPS-42

MIYELGWNWDELQLIAQGTLAGHLLECGSQLTGGYFMHPGDKYRDIPFEE
LLDLSLPYAEINFNGDLCVAKAEGSGGILNVSTCSQQLLYEIGDPSAYIT
PDVIIDFRDVTFRPLSRNKVLCVGAKPSDRLIPEKLLLLSPMGIGWKGWG
EISYGGYECVKRAKAAEFLVRAWMEEVYPGINKCIISYIIGVDSLATEI
DNVTLSGIRDRLRMDGLFKQEEHAIRFIKEFIALYTNGPAGGGGISTGH
KKETTTLRKALITREDVHYHVTAKKEYKMIESESDSTVPKTDVKENHADKIR
ISTSIQTETKTNSCMEEEFSESEIQTGPAPSGLKIPLYDIAHSRTGDKGN
DLNFSIIPHFLPDIERLKKVITPEWVKKVSVLANTTSFPDFEEIERREK
WVEENVKVEIYEVKGISLNVVVREILDGGVNCSRRIHRHGKCVSDLVLC
QRVVLPPP

>NjTPS-43

MDDTVSSSDSAQNPKSSDHSVNSRCTEDSDSDGEEAHIVNCIHELKKNPQ
RRREKVYIGCGAGFGGDRPLAALKLLERVEELNYLVLECLAERTLLDRYE
SVESGGVGYDPRISEWMNLLLPLAVQRDVCITNMGAHDSHGAREKVLEI
AKELGISVNVGIAYQFALTKAAMVPRMGEYRCSTYLGAAPIVECLEKYKP
NVIITSRVADASFLAPMIYELGWNWDELQLIAQGTLAGHLLECGSQLTG
GYFMHPGDKYRDIPFEELLDLSLPYAEINFNGDLCVAKAEGSGGILNVST

CSQQLLYEIGDPSAYITPDVIIDFRDVTFRPLSRNKVLCVGAKPSDRLIP
EKLLLLSPMGIGWKGWGEISYGGYECVKRAKAAEFLVRAWMEEVYPGINK
CIISYIIGVDSLSATEIDNVTLSGIRDRLMDGLFKQEEHAIRFIKEFI
ALYTNGPAGGGGISTGHKKETTLRKALVMSLYNDIMCA

>NjTPS-44

MKLSIRKYLHLKQIIDFRDVTFRPLSRNKVLCVGAKPSDRLIPEKLLLLS
PMGIGWKGWGEISYGGYECVKRAKAAEFLVRAWMEEVYPGINKCIISYII
GVDSLSATEIDNVTLSGIRDRLMDGLFKQEEHAIRFIKEFIALYTNGP
AGGGGISTGHKKETTLRKALITREDVHYHVTAKKEYKMIESESDSTVPKTD
VKENHADKIRISTSIQTETKTNSCMEEEFSESEIQTGPAPSGLKIPLYDI
AHSRTGDKGNDLNFISIIPHFLPDIERLKKVITPEWVKKVSVLANTTSFP
DFEEIERREKWVEENVKVEIYEVKGISLNVVVREILDGGVNCRRIDRH
GKCVSDLVLCQRVVLP

>NjTPS-45

MDDTVSSSDSAQNPKSSDHSVNSRCTEDSDSDGEEAHIVNCIHELKPNPQ
RRREKVYIGCGAGFGGDRPLAALKLLERVEELNYLVLECLAERTLLDRYE
SVESGGVGYDPRISEWMNLLLPLAVQRDVCITNMGAHDSHGAREKVLEI
AKELGISVNVGIAYQFALTKAAMVPRMGEYRCSTYLGAAPIVECLEKYKP
NVIITSRVADASLFLAPMIYELGWNWDELQLIAQGTLAGHLLECGSQLTG
GYFMHPGDKYRDIPFEELDLSLPYAEINFNGDLCVAKAEGSGGILNVST
CSQQLLYEIGDPSAYITPDVIIDFRDVTFRPLSRNKVLCVGAKPSDRLIP
EKLLLLSPMGIGWKGWGEISYGGYECVKRAKAAEFLVRAWMEEVYPGINK
CIISYIIGVDSLSATEIDNVTLSGIRDRLMDGLFKQEEHAIRFIKEFI
ALYTNGPAGGGGISTGHKKETTLRKALITREDVHYHVTAKKEYKMIESESD
STVPKTDVKENHADKIRISTSIQTETKTNSCMEEEFSESEIQTGPAPSGL
KIPLYDIAHSRTGDKGNDLNFISIIPHFLPDIERLKKVITPEWVKKVSVL
ANTTSFPDFEEIERREKWVEENVKVEIYEVKGISLNVVVREILDGGVNC
RRIDRHGKCVSDLVLCQRVVLP

>NjTPS-46

MDDTVSSSDSAQNPKSSDHSVNSRCTEDSDSDGEEAHIVNCIHELKPNPQ
RRREKVYIGCGAGFGGDRPLAALKLLERVEELNYLVLECLAERTLLDRYE
SVESGGVGYDPRISEWMNLLLPLAVQRDVCITNMGAHDSHGAREKVLEI
AKELGISVNVGIAYQFALTKAAMVPRMGEYRCSTYLGAAPIVECLEKYKP
NVIITSRVADASLFLAPMIYELGWNWDELQLIAQGTLAGHLLECGSQLTG
GYFMHPGDKYRDIPFEELDLSLPYAEINFNGDLCVAKAEGSGGILNVST
CSQQLLYEIGDPSAYITPDVIIDFRDVTFRPLSRNKVLCVGAKPSDRLIP
EKLLLLSPMGIGWKGWGEISYGGYECVKRAKAAEFLVRAWMEEVYPGINK

CIISYIIGVDSLSATEIDNVTLSGIRDRLRMDGLFKQEEHAIRFIKEFI
ALYTNGPAGGGGISTGHKKETTTLRKALITREDVHYHVTAKEYKMIESESD
STVPKTDVKENHADKIRISTSIQTETKTNSCMEEEFSESEIQTGPAPSGL
KIPLYDIAHSRTGDKGNDLNFSIIPHFLPDIERLKKVITPEWVKKVVSVL
ANTTSFPDFEEIERREKWVEENVKVEIYEVKGISLNVVVREILDGGVNC
SRRIDRHGKCVSDLVLCQRVVLPPP

>NjTPS-47

MKLSIRKYLHLKQIIDFRDVTFRPLSRNKVLCVGAKPSDRLIPEKLLLLS
PMGIGWKGWGEISYGGYECVKRAKAAEFLVRAWMEEVYPGINKCIISYII
GVDSLSATEIDNVTLSGIRDRLRMDGLFKQEEHAIRFIKEFIALYTNGP
AGGGGISTGHKKETTTLRKALITREDVHYHVTAKEYKMIESESDSTVPKTD
VKENHADKIRISTSIQTETKTNSCMEEEFSESEIQTGPAPSGLKIPLYDI
AHSRTGDKGNDLNFSIIPHFLPDIERLKKVITPEWVKKVVSVLANTTSFP
DFEEIERREKWVEENVKVEIYEVKGISLNVVVREILDGGVNCSSRRIDRH
GKCVSDLVLCQRVVLPPP

>NjTPS-48

MANHYTTTDDKWSITQEYLNFEEDTTANCGNFYVENEQKLTQIRRKLMTVDE
DPLDCLKLVDAIHKLGIYHFQDEINDFTERHYTTTMTKNVVPQQGSLF
EGSLSFRLLRQQGYVVSANLKFNCYDGGQGFNTKLGQDIMGLMGLYEASQ
LNIEGEDILEEAGIISRRILNSLIGHVNNHENRTIMHMLSHPHYHKSARS
TAKDFIKVNNVDFGLNVTELPVLQELAKMDLDLVQSIHQKELLEISKWWK
ELGLGKELKFARNQPLKWHMWSIAALTNPSLSKQRIELTKPISLIYIID
IFDVYGTLDLIIFTKVNNRWEVSTMEQLPDYMKICFRALYDVTNEISYS
VYQDYGWNVPVGLRKAWGSLFDAFLVEAKWFASGNVPKSEEYLNKNGIVSS
GANVVLVHMFLLGEGTNKKNKAKIVEDYDPDIITYVATILRLWDDLGSKD
ENQDGNDSYIICYMKENEDVSVEKARQHVKMISNAWKQLNKEWLLQNR
YSTTFKKASMNLMVSLMYSYDENQSLPKLEEYMKSVL

>NjTPS-49

MDSYLNASSAPPPKKNMQEPVRPIANFHPSVWGNVFLKYASNPEQSDGGA
EEQHEQLKEALRKLVNVANERAGEQLKLIDAIQRLGVAYQFENEIDVV
LNNQLQLLNNQDDDLHMSLRFRLLRQHGHNVSCGVFGKFKDIEGRFKEC
LMDDVRGLLSLYESTHMRVHKEDILEELEFTTTTHLEQVVKSPFSCSVLA
SQVVHALKLPIRKVLTRIEARHFIPYQQDESHDETLLKFAKLDFNMLQK
VHQREVADITMWWKDLNVSEKLPYARDRAVECYFWILGVYFEPQYSHARR
MLTKVIAFISLIDDTYDSYGTFEELSLFTDAIQRWDVNAKNQLPEYMRHI

YGELLDVYNAMEEEELSKEGISYRIDYAKQTMKQQVRTYFDEAIWYNNGYV
PTMEEYLKVALVSCGYIMLSTTSFVGMGVSVVPNQAFDWVTSNPLIVEAS
SVVNRLSDDKVGHKIEQERGHVVSAVECYMKQHNRTTEEETIAEFKKRVTT
AWKDMNQECLHPLVPPIHLLERVLNLA

>NjTPS-50

MDSYLNASSAPPPKKNMQEPVRPIANFHPSVWGNVFLKYASNPEQSDGGA
EEQHEQLKEALRKKLVNVANERAGEQLKLIDAIQRLGVAYQFENEIDVV
LNNQLQLLNNQDDDLHMOVSLRFLLRQHGHNVS CGVFGKFKDIEGRFKEC
LMDDVRGLLSLYESTHMRVHKEDILEELEFTTTTHLEQVVKSPFSCSVLA
SQVVHALKLPIRKVLTRIEARHFIPYQQDESHDETLLKFAKLDFNMLQK
VHQREVADITMWWKDLNVSEKLPYARDRAVECYFWILGVYFEPQYSRARR
ILTKVICMTSLIDDTYDSYGTFEELILFTDAIQRWDVNAKNQLPEYMRHI
FGELLDVYGAMEEELSKEGISYRVDYAKQIMIQLVTAYNHEAIWYHDGYV
PTLEEYLEVALVSCGYIMLSTTSFVGMGVSVVPNQAFDWVTSNPLIVEAS
SVVNRLSDDKVGHKIEQERGHVVSAVECYMKQHNRTTEEETIAEFKKRVTT
AWKDMNQECLHPLVPPIHLLERVLNLA

>NjTPS-51

MDSYLNASSAPPPKKNMQEPVRPIANFHPSVWGNVFLKYASNPEQSDGGA
EEQHEQLKEALRKKLVNVANERAGEQLKLIDAIQRLGVAYQFENEIDVV
LNNQLQLLNNQDDDLHMOVSLRFLLRQHGHNVS CGVFGKFKDIEGRFKEC
LMDDVRGLLSLYESTHMRVHKEDILEELEFTTTTHLEQVVKSPFSCSVLA
SQVVHALKLPIRKVLTRIEARHFIPYQQDESHDETLLKFAKLDFNMLQK
VHQREVADITMWWKDLNVSEKLPYARDRAVECYFWILGVYFEPQYSRARR
ILTKVICMTSLIDDTYDSYGTFEELILFTDAIQRWDVNAKNQLPEYMRHI
FGELLDVYGAMEEELSKEGISYRVDYAKQIMIQLVTAYNHEAIWYHDGYV
PTLEEYLEVALVSCGYIMAATTSFVGMGVKAVPKQAFDWVSSNPLMVQAS
SIINRLTDDRVGHELEQQRGHVASGVECYMKQHNATEEEVLVEFNKRITS
AWKDMNQECLHPLVPPIHLLERVLNLARFMNIFYKDEDCYTHSNTRMKDF
ITSLLESVPS

>NjTPS-52

MSIIIATNGTEHPIFRPLANFPPLWGNLFTSFMDNQAREIYAKEHEGL
KEKVRVMLLDTTNYKISEKINFINTVERLGVSYHFEKEIEELLHQMFDAH
SKLLDDIQEFDLFTLGIYFRILRQHGKISCDVFNKLKDSNGEFKDELKD
DVNGMLSLYEATHVRTHGENILDEALIYTKAQLSMAAASLSPFLAKQVK

HALMQALHKGIPRIEARNYISVYEEDPNKNDLLLRFSKIDFNLVQMIHKQ
ELCDTRWWKDLEFESKLSYARNRVTEAYSLQE

>NjTPS-53

MISSSSVRSLYFPKTNITSKVPSLLINNINVPSNNSIRACISMSSLPV
SKSTSSSTAAPLIRDNGSLLKFITQTPQVEVDESKRIMELVETTRRTLRLK
ASSDPTDKMKLIDSLQRLGLNHHFEEDINVVLQEFANEQKNTNEDLFTTS
LRFLLRHNGYNVTPDIFNKFTEKNGKFKESEDTIGILSLYEASYLGA
KGEEILSEAIKFSESKLRESAGHVAPQIRRQILQSLELPRHLRMARLESR
RFIEEDYSKEIGCDLSLLELAKLDFNYVQSLHQMELAEISRWWKQLGLAD
KLPFARDRPLECFLWTVGLLPEPKHSECRIELAKTIAVLLVIDDIFDTYG
SFDQLVLFTNAIRRWDLDAMEELPEYMKICYMALYNTTNEICYKVLKENG
WSVLPFLKTTWIDMIEGFMVEAEWLNSGQVPNLEEYIENGVTTAGSYMAL
VHIFFLIGDGVTDNDVKLLLDPPYPKLFSSAGRILRLWDDLGTAKKEEQERG
DVSSSIQLYMKENNISSESEGRNSNQKIKNYIRLKTIHNKIFKI

>NjTPS-54

MISSSSVRSLYFPKTNITSKVPSLLINNINVPNNSIRACISMSSLPV
SKSTSSSTAAPLIRDNGSLLKFITQTPQVEVDESKRIMELVETTRRTLRLK
KASSDPTDKMKLIDSLQRLGLNHHFEEDINVVLQEFANEQKNTNEDLFTT
SLRFLLRHNGYNVTPDIFNKFTEKNGKFKESEDTIGILSLYEASYLG
AKGEEILSEAIKFSESKLRESAGHVAPQIRRQILQSLELPRHLRMARLES
RRFIEEDYSKEIGCDLSLLELAKLDFNYVQSLHQMELAEISRWWKQLGLA
DKLPFARDRPLECFLWTVGLLPEPKHSECRIELAKTIAVLLVIDDIFDTY
GSFDQLVLFTNAIRRWDLDAMEELPEYMKICYMALYNTTNEICYKVLKEN
GWSVLPFLKTTWIDMIEGFMVEAEWLNSGQVPNLEEYIENGVTTAGSYMA
LVHIFFLIGDGVTDNDVKLLLDPPYPKLFSSAGRILRLWDDLGTAKKEEQER
GDVSSSIQLYMKENNISSESEGRKQIIEIHNLWKDLNGELIGSNAMPLP
IIKTSFNMARTSQVVYQHEDDSYFSSVDNYVQSLFFTPPI

>NjTPS-55

MISSSSVRSLYFPKTNITSKVPSLLINNINVPSNNSIRACISMSSLPV
SKSTSSSTAAPLIRDNGSLLTKFITQTPQVEVDESKRIMELVETTRRTLRLK
KASSDPTDKMKLIDSLQRLGLNHHFEEDINVVLQEFANEQKNTNEDLFTT
SLRFLLRHNGYNVTPDIFNKFTEKNGKFKESEDTIGILSLYEASYLG
AKGEEILSEAIKFSESKLRESAGHVAPQIRRQILQSLELPRHLRMARLES
RRFIEEDYSKEIGCDLSLLELAKLDFNYVQSLHQMELAEISRWWKQLGLA

DKLPFARDRPLECFLWTVGLLPEPKHSECRIELAKTIAVLLVIDDIFDTY
GSFDQLVLFTNAIRRFIDILPLFLKFTKF

>NjTPS-56

MISSSSVRSLYFPKTNITSKVPSLLINNINVPSNNSIRACISMSSLPV
SKSTSSSTAAPLIRDNGSLLTKFITQTPQVEVDESKRIMELVETTRRTL
KASSDPTDKMKLIDSLQRLGLNHHFEEDINVVLQEFANEQKNTNEDLFTT
SLRFLLRHNGYNVTPDIFNKFTEKNGKFKESEDTIGILSLYEASYLG
AKGEEILSEAIKFSESKLRESAGHVAPQIRRQILQSLELPRHLRMARLES
RRFIEEDYSKEIGCDLSLLELAKLDFNYVQSLHQMELAEISRWWKQLGLA
DKLPFARDRPLECFLWTVGLLPEPKHSECRIELAKTIAVLLVIDDIFDTY
GSFDQLVLFTNAIRRWDLAMEELPEYMKICYMALYNTTNEICYKVLKEN
GWSVLPFLKTTVILTYLYFK

>NjTPS-57

MISSSSVRSLYFPKTNITSKVPSLLINNINVPSNNSIRACISMSSLPV
SKSTSSSTAAPLIRDNGSLLKFITQTPQVEVDESKRIMELVETTRRTL
ASSDPTDKMKLIDSLQRLGLNHHFEEDINVVLQEFANEQKNTNEDLFTTS
LRFLLRHNGYNVTPDIFNKFTEKNGKFKESEDTIGILSLYEASYLGA
KGEEILSEAIKFSESKLRESAGHVAPQIRRQILQSLELPRHLRMARLESR
RFIEEDYSKEIGCDLSLLELAKLDFNYVQSLHQMELAEISRWWKQLGLAD
KLPFARDRPLECFLWTVGLLPEPKHSECRIELAKTIAVLLVIDDIFDTY
SFDQLVLFTNAIRRWDLAMEELPEYMKICYMALYNTTNEICYKVLKENG
WSVLPFLKTTWIDMIEGFMVEAEWLNSGQVPNLEEYIENGVTTAGSYMAL
VHIFFLIGDGVTDNDVKKLLDPYPKLFSSAGRILRLWDDLGTAKKEEQERG
DVSSSIQLYMKENNISESEGRKQIIHNLWKDLNGELIGSNAMPLPI
IKTSFN MARTSQVVYQHEDDSYFSSVDNYVQSLFFTP

>NjTPS-58

MISSSSVRSLYFPKTNITSKVPSLLINNINVPSNNSIRACISMSSLPV
SKSTSSSTAAPLIRDNGSLLKFITQTPQVEVDESKRIMELVETTRRTL
ASSDPTDKMKLIDSLQRLGLNHHFEEDINVVLQEFANEQKNTNEDLFTTS
LRFLLRHNGYNVTPDIFNKFTEKNGKFKESEDTIGILSLYEASYLGA
KGEEILSEAIKFSESKLRESAGHVAPQIRRQILQSLELPRHLRMARLESR
RFIEEDYSKEIGCDLSLLELAKLDFNYVQSLHQMELAEISRWWKQLGLAD
KLPFARDRPLECFLWTVGLLPEPKHSECRIELAKTIAVLLVIDDIFDTY
SFDQLVLFTNAIRRWDLAMEELPEYMKICYMALYNTTNEICYKVLKENG

WSVLPFLKTTWIDMIEGFMVEAEWLNSGQVPNLEEYIENGVTTAGSYMAL
VHIFFLIGDGVTDNDVKLLLDYPYKLFSSAGRILRLWDDLGTAKVTFN

>NjTPS-59

MSCMRSISSPSQLLSKSYDNIIDSSSSSSRSFSWSFKSKNPAAAARTSMC
LSSRSSPSAVVVPPTSNNGSFLKYLQQSTVLVPQEIDDNSRTMELIEETR
KELVKVREPVEKMRLIEALQRLGISYHFENEINIILENLSGGGGRHSDDED
LFTTSLRFRLLRHNGHHISNDVFEKFVDENGKFESLKEDTMGMLSLEYEA
SYMGANGEDILLQAMEFTKNHLKESLPLMESNLGKQVLQSLELPKNLRMA
RLEARRYIEEYSNESDHNLALLELAKLDYNQVQSLHQMELAEISRWWKHL
GLVDKLSFARDRPLECFLWTVGILPEPKDSGCRIELAKTIAILLVIDDIF
DTHGSYDELVLFTNAIRRWDLNAMEELPEYMKICYMALYNTTNEICYKVL
KENGWSVLPFLKTTWIDMIEGFMVEAKWLNNEEVPNLEEYIENGVTTAGS
YMALVHIFFLIGEGVNEDNVKLLLNYPYKLFSSAGRILRLWDDLGTSKEE
QERGDVASSIQLFMKENNITCEEEARNQIIQIVQNLWKELNGELMAPNAL
PLPIIKACLNMARASQVVYQHDGDSYFSNVDNYVQSLFYTPIRM

>NjTPS-60

MAANCPLLQFSSHLEAKFHSNRLRVSSPSASIAKLNRTCRWSVIRCSSS
NGREPYSLDGGEKNAEKALEEKRRRAELSARIASGEFTVQKTGTSFQSVLI
NGLSKLGVPSIEIPLSKLINGGEDYPKIPKGAISAIRSEAFFIPLYE
LYLTYGGIFRLTFGPKSFLIVSDPSIAKHILRDNSKAYSKGILAEILEFV
MGTGLIPADGDVWRVRRRAIVPSLHQKYVAAMISLFGQATDRLCKKLDAA
AYDGEDVEMESLFSRLTLDIIGKAVFNYDFDSLTTDTGIVEAVYTVLREA
EDRSVSPIPFWEIPIWKDISPKQKKVNEALKLINGTLDNLIAICKRMVDE
EELQFHEEYMNETDPSILHFLASGDDVSSKQLRDDLMTMLIAGHETTAA
VLTWTFYLLTKEPSVMAKLQNEVDSVLGDRIPTIEDMKKLRYTTRVINES
LRLYPQPPVLIRRSIIDDTLGDYPIKRGEDIFISVWNLHRCPKHWEDA
FNPERWPLDGPNNETNQNFSLPFGGGPRKCVGDMFASFEAVVAVAMLV
RRFNFQMALSAPPVEMTTGATIHTTQGLNMSVTRRINPPLVSTFPVLQVN
SPADADPLPKGEVSSAARS

>NjTPS-61

MTFLTNIPTNENSFLLKTHTNGLIKNPKFYLPFKIKATHIAPQSYNTRS
IKIKELLEPKPLDYSPPAFKFEEYMKSKAKVVHKALDAAIPLQDPVKIHE
AMRYSLLAGGKRVRPILCIAACELVGGGETAAIPMACALEMIHTMSLIHD
DLPCMDNDDLRRGKPTNHKMFGEDTAVLAGDALLSLAFEHVATTATAVAT

SSNVTARVVRAIGELASAVGTEGLVAGQIVDICSEGKEVSLNELEFIHVH
KTAKLLEAAVVCGSLIGGGTMEEVERLRKYARHIGLLFQVDDILDVTKS
SKELGKTAGKDLVTDKATYPKLMGMAKAEFAGELVERAVEELSYFDPVK
AAPLYHLANYIAYRQN

>NjTPS-62

MWKLKIAEGHGPYLYSTNNFVGRQIWEFDPEAGTPEEREVEKAREYFRN
NRRQGVHPCGDMIMRMQLIKESGIDLLSIQPVRLGEKEEVNYESAVTTAVK
KAVRLNRAIQAHDGHWPAENAGPMFFTPPLIIALYISGAINLILRQEHKT
EMIRYIYNHQNKDGGWGFYIEGHSTMIGSALSVALRLLGESAYGGNGAV
ERARKWILDHGGAGGIPSWGKTYLSVLGVYEWEGCNPLPPEFWLFPALP
YHPAKMWCYCRTTYMPMSYLYGKKFHGPITDLVLELRQEIHVPYDQINW
NKQRHNCCKDDMYYPHSTIQDLLWDGLHYFSEPIIKYWPFNKLRQRGINR
AVELMRYGAEESRYITIGCVEKSLQMMCWAEENPNGDEFKHHLARVPDYL
WLAEDGMKMQSFGSQVWDCVLATQAIASNMVEEYGDLSLKKAHFYIKESQ
IKQNPSGDFSKMCRQFTKGSWTFSDQDQGWVVSCTAESLKCLLMLSQMP
TEIAGEKADVERLYDAVNVLLYLQSPLSGGFAIWEPPVPQPYLQMLNPSE
IFADIVVEKEHVECTASIIQALLAFKRLHPGHREKEIETAVPKAVRFLIE
KQWPDGSGWYGYWGICFIYGTFFVLGGLVSAGKTYKNSEAVRKAVKFFLST
QNDEGGWGESIKSCPSEVTSLTALILSKIYVQLYFTYLDVLFNIKTGIHT
TGRQPYKFCTNILGYARAYARWAG

>NjTPS-63

MVVLTKPATEHFCLVKSYPKPTFFPTIPVVDLSKPDSKHLLVKACQEFGE
FKVINHGISMDSIAKLESEAINFFNLPLSEKQKAIPPHPGYGNKRIGSN
GDIGWLEYLLLTNNQEFNYQTLVSIFGENPEIFWGSIKDYVEAVKKMSCE
ILEMLAEGLKIEEKDVFSKLLMNEESDSLFRMNHYPSPSSSSSSKSEIE
GGLRNNQQQIGFGEHTDPQIISVLRNNTSGLQISLKDGSWISVPPDQNS
FFVNVGDSLQVMTNGRFSVKHRLANSRKARLSMIYFGGPPLSEKIAPL
PSLLIKGKEDSLYKEFTWFEYKKSAYNSRLADNRLGLFEKITAL

>NjTPS-64

MKMOVKLSKELLFFEMKNYNNNIFLASLLSIGITIFFLILKKSTSSTVKVG
VPGRGLPLFVGETISFLFAVNSTKGVYNFVTLRRLRYGKWFKTRLLGKVQ
VVFPTATGAKMIFTNEFMKFNKGYLKSMKNAVGPKSFLCVTHESHKRIRR
LLSDPFSMNSLSGFVPKFDKLLCDRLKKLENDGNSFVVLDFNMKITFDAM
CDMLMSITDASLLTQIENDCAAVSASIISFPFMIPGTTYYKGMKARERLM

ETFEEIIGRRRSGKECHEDFLQTMLKRESYPADKLLDDSEIKDNLLTLII
AGQATTAAAMMWSLKFLDENRTVQDKLREESLAILRNKTNGALLTLEDLN
NMSYASKVVKETLRMSNGVLWFPRALED CIVDGV EIKKGWNVNIDATCI
HYDPTIYKDPLQFNPSRFDEIQKPYTYMPFALGARTCLGIDMAKMTMVVY
LQRLTSGYKWKVDDHDPRLGTKTHIPRLRSGLPITLTALENKN

>NjTPS-65

MKTVSPHYPPGITA HGNSSPKFDFSNLHFPLRVQNYVRSLCPSSTSFCCTS
KGCVGRVYALPDFDEFFWDKVPTPILDTVENPMHLKNLSPKELKQLADDI
RSELSFIMSKTQKSLKPSLAAVELTIALHYVFHAPMDKILWDAGIQTYAH
KILTGRRLIHTLREKDGLSGYTSRFESEFDPFGAAHGCNSVSAGLGLAV
ARDLKGKRNRVTVISNGTTMAGQVYEAMSNAGYLDSDMIVILNDSRHSL
HPKINDASNEQINALSSTLIK LQSSKFFRRFREMAKGLTKRIGRGMYEWA
AKVDEYARGMIGPPGSTLFEELGLYYIGPVDGHNIEDLICVLHEVASLDS
TGPVVFHVITKEDQDSPLVQQTHPETNNQEEGSSPPSDSDSYISNGEYQT
YSDRFVEALIMEAERDKDIVAVHAGMGMEKSLQLFQQKFPDKFFEVGIAE
QHAVTFSAGLACGGLKPF CIIPSAFLQRAYDQVV

>NjTPS-66

MEKQEERRSYRVILVPCPFQGHISPMLQLGTLLYSKGFSITVAHIKINAP
DPSNHPDFTFLPLDADLTEFDTSALNMQGLVETINGKCEAPLRKCLAEMK
SEPHDQVVCIHYDTLMHYAESVAQYVKIPSIVLHTTSASALLAYFAIPRL
LAEGNIPLKESMLDEIVPDLPLRYKDIPIHNGHLEGLLRVIAIVSNIKS
SSAIIWNTAEHLESSSLKQLQQHYNQIPLFSVGPLNVMAPSLATSLLEED
SSCKPWLDKKAPNSVIYVSLGSLATMDQNELTEMAWGLANSQGQFVLWVVR
PRSIRDSEWVELLPEGFKEVIGDRICITKWAPQKEVLAHSAVGGFWSHCG
WNSTLESISEGVPVICRPFAGDQYVNARYLTHAWKVGIEFGDAYERVKIA
KAIRTLMVDKEGEEIRRRANDMKEKIKNCTMEGGSSYDSLNGLAELISSF
KVPK

>NjTPS-67

MEMISFIISFSLFSIFAYILSLINRRKLPPGPIGLPIVGNLFDIGPKPHE
SLAKLAKKHGPLMTIRLGSVTSVVATSAEMAREILQKNDEACSGRLVPDA
VTALRDNHLAVLWISAGEEWRIIRRALNTFLTHHQTLDTLTRLRHVAVEE
MVVHV KACSEKNLAVDIGKLAFATALNQMSSTCISRNVD DVEGFLSAVKT
LMVVDGKFNIADIFPWLKPFDPMSIRKRAKAA YGWFEIIEGFIDRRLKQ
RESEQMRYGDLLDSDL DYSDENESL FNLKHIKVLLVDLFLAGTETTSNTT

EWAMTELM LHPHIMERVRQEVSGSIKMKGNIEEVDILELPYLQAVVKETM
RLHLAVPLLVP HKTEIDVKLSGYIIPKNTQVLINAWAIARDAEYWDNPTS
FMPEFFINNFDSDFKGNFTFLPFGSGRRMCPGISLAQRVVSLMIASLVY
YFDWKLPNGTEALDMNDTFGLTLQRSTPLLVPPTTRNKTNM

>NjTPS-68

MWRLKIADGGDGPYLYSTNNYVGRQTWEFEPESGTPEERAKVEQARLLF
WNNRYHVKPSSDLLWRYQFLEKKFKQTIAQVKVEEGDEITYETATTTLR
RSVHFFSALQASDGHWPAENAGPLFFLPPLVMCLYITGHLNTVFSAEHRK
EILRYLYCHQNEGGWGLHIEGHSTMFCTTLSYICMRILGEGPDGGLNNA
CARARKWILDHGSVTAIPSWGKTWLSILGVFDWSGTNPMPPEFWILPSFL
PMYPAKMWCYCRMVYMPMSYLYGKRFGVGPITPLILQLREELYAQPYGDVN
WKKVRHHCAQEDIYYPHPLIQDLMWDSLYIMTEPFLTRWPFSKLREKALQ
TTMKHIHYEDENSRYITIGCVEKILCMLACWVEDPNGDYFKKHLARIPDY
IWVAEDGM

>NjTPS-69

MEEQGKSERRRLVLVPSPFQGHLS PMLQLGTILHSGFSITIFHAKTNAP
DPSKHPNF EFRAFAEDVPKFNLSGIVQFISDLNTAYKAQFTEWLVEIKKE
NKLGNKVACVIYDTLMYSAEAVACEMKIPSIVLRTSSASYLLAYRAIPKL
KEEGYFPVQDSILQDLVPGLDPLRFKDL PFSNLSMEDALELLAMTSNIRS
SSAIIWNTIDYLEQSSLSKLQQQYYQVPFFPVGPLHIMGTHSSTSLLKED
NSCIDWLNKQATNSVIYTSLGSIATMDEKELVETAWGLANSEQPFLWTVR
PGSVRGSEWVELLPEGFLEKVGERGKIVKWAPQIEVLAHRAVGGFWSHCG
WNSTLESISEGVPMVCWPCFLDQKVNARYVTYVWRVGLELENVLERGEIE
RVVKRLMVENEGEEIRERAMKKKKEIEESMREGGSSYNSLNYVIDLILSF
EL

>NjTPS-70

MEEQGKSERRRLVLVPSPFQGHLS PMLQLGTILHSGFSITILHAKTNAP
DPSNHPNF EF RVIAENLPKFNLAGEVFQFISDLNTACKAQFTEWL VETKK
ENKLCNQVACVIYDTIMYSAE VVACEMKIPSIVLRTSSASYLLAYRAIPK
LKEEGYFPVQDSILQDLVPGLDPLRFKDL PFSNLSMEDALELLAMTSNIR
SSSAIIWNTIDYLEQSSLSKLQQQYYQVPFFPVGPLHIMGTHSSTSLLKE
DN SCIDWLNKQATNSVIYTSLGSIATMDEKELVETAWGLANSEQPFLWTV
RPGSVRGSEWVELLPEGFLEKVGERGKIVKWAPQIEVLAHRAVGGFWSHC
GWNSTLESISEGVPMVCWPCFLDQKVNARYVTYVWRVGLELENVLERGEI

ERVVKRLMVENEGEEIRERAMKKKKEKIEESMREGGSSYNSLNYVIDLILS
FEL

>NjTPS-71

MSVASSSSTSSVLKNIRSSFPLFHSQDGFSSNLLTAGFPINNKRKVGSRV
IMGSKYNNGSNNNEKEILVKDEEAQRLNQHFKKSLNYSGTKPATPILDTI
NYPNHMKNLSIKELEQLANELREEIVHTVSRIGGHLSSSLGVAELTVALH
HVFNTPEDKIIWDVGHQAYSHKILTGRRSKMSTIRQTCGLSGFPCRDESV
HDAFGVGHSSTSISAGLGMAVGRDLKGDDNHVISVIGDGAMTAGQAYEAM
NNAGYLESNLIILNDNRQVSLPTATIDGPAPPVGALSKALTRLQSSRKL
RQLFEAAKGVTKQLGDQTHKLAAKVDSYVRGIAGAQQGASLFEELGLYYIG
PVDGHNVEDLVYILNQVKSMPASGPVLIHIITEKGKGYPPAELAADKMHG
VVKFDPKTGKQSKEKSRTLSYTQYFAESLIAEAKGDDKIIAIIHAAMGGGT
GLNSFQKHFPHRCFDVGIAEQHAVTFAAGLATEGFKPFCAIYSSFLQRGY
DQVVHVDVLDLQKLPVRFAIDRAGLVGADGPTHCGAFDITTFMASLPNMVMA
PSCENELINMVATAAANDRPSCFRYPGRNGIGSILQPNYKGTPLEVGKG
RILREGSRVAILGYGTIVQNCLEASKLLQMLGV SITVADARFCKPLDGNL
VRQLVQEHEILITVEEGSIGGFGSHVSQYMGLNGLLDGNLKW RAMMLPDR
YIDHGAQTNQIEEAGLSSKQIAATVLSLIGESRESIHLVNL

>NjTPS-72

MAAIISSSSSSTSSVLKNSRGSIPSSQFNNGFPSKRLIPAFPINKRRKD GK
GVIMAANHHNNNNNGSSNNEKEVMVNGEETQIIKQRFKKSLNYS GDKPAT
PILDTINYPNHMKNLSIKELEELADELREEIVHTISKIGGHLSSSLGVAE
LTVALHHVFNTPDQDKIIWDVGHQAYPHKILTGRRSKMSTIRQPSGLAGFP
KRDESVHDAFGVGHSSTSISAGLGMAIGRDLLGNDNHVISVIGDGAMTAG
QAYEAMNNAGYLESNLIILNDNRQVSLPTATVDGPALPVGALSQSLTRL
QSSHKLRLQREPTNGVTKQLGDETHKLAAKVDSYVKGMTGGHGASLFEEL
GLYYIGPVDGHNIEDLVYILSQVKDMPASGPVLIHLITEKGKGYPPAELA
ADKMHGVVKFDPKTGKQSKASSKTLSTYTQYFAESLIAEAEQDDKIVAIHA
AMGGGTGLNAFQKHFPHRCFDVGIAEQHAVTFAAGLATEGLKPFCAIYSS
FLQRGYDQVVHVDVLDLQKLPVRFAIDRAGLVGADGPTHCGAFDITTFMASLP
NMVVMAPSCENELINMVATAAIDDRPSCFRYPGRNGIGSILQPNYKGT
PLEVGKGKILREGNRVAILGYGTIIQNCLEASELLQLHGVSITVADARFCK
PLDGNLVKQLAQEHEILITIEEGSIGGFGSHVAQYMC SNGLLDGNLKWRA
MMLPDRYIDHGAQTSQIEEAGLSSKQIAATVLSLMGESKESLHFNL

>NjTPS-73

MDTLLKTHNKLQFPHPLHGFTSKISSFSSTKPQNHEIRFGFGSKRSTLKL
GKITSLRASSSTLLELVQETKKENLDFELPLYDPSKGLVVDLAVVGGGPA
GLAVAQQVSEAGLSVCSIDPCPKLIWPNNYGVWVDEFEAMDLLDCLDTTW
SGAVVYIDENSKKELGRPYGRVNRKQLKSKMMQKCITNGVKFHQAKVIKV
IHEETKSFLICNDGVTVQASVVLDATGFSRCLVQYDKPYNPGYQVAYGIL
AEVEEHPFDVDKMFMDWRDShLNKNLELKEKNSKIPTFLYAMPFSSNKI
FLEETSLVARPGLQMEDIQDRMVARLKHLGIKVKSIEDERCVIPMGGPL
PVL PQRVVGIGGTAGMVHPSTGYMVARTLAAPIVAKSIVEYLGSEKSL
GNELSGKVWRDLWPIERRRQREFFCFGM DVLLRLDLRGTRRFFSAFFDLE
PRYWHGFLSSRLFLRELLFFGLSLFSRASNTCRLEIMAKGTVPLVKMINN
LVQDSE

>NjTPS-74

MDVRRRPPTTTNRHGEPLKPHQPKASDALPVPLYITNGLFFTLFFSVMYFL
LVRWREKIRNSTPLHIVTLSELA AIFALVTSVIYLLGFFGIGLVQS FVTK
PSLDDTWDVMDETHAERFMLEDDSRFKPCGA ALEDQGTNIKKHKNLVPQS
SVETEQTAEESSIWTAEDEEIVQSVISGTIPSYLESKLGD CRRAAAVRR
EALQRITGKSLEGLPLGGFDYASILGQCCEMPVGYVQIPVGIAGPLLLNG
KEFWVPMATTEGCLVASTNRGCKAIYTS GGATGVLLRDGMTRAPVVRFGS
VVRAAELKFFLEDPLNFETLALMFNKSSRFGRLQGIKCAIAGKNLYIRFT
CSTGDAMGMNMVSKGVQNVLDLFLQSDFPDMDVMGISGNFCSDKKPA AVNW
IEGRGKSVVCEAIITEDVVKVLKTNVAALVELNMLKNLAGSALAGALGG
FNAHASNIVSAVYIATGQDPAQNVESH CITMMEAVNNGKDLHISVTMPS
IEVGT VGGGTQLASQSACL NLLGVKGASQEKAGSNSRLLATIVAGSVLAG
ELSLMSALAAGQLVKSHMKYNRSTKDLTKLSS

>NjTPS-75

MAFSFLPNFQISTISRQLPPALPQATIRKSKLKLAKCMASSTPTQPQTIV
RREANYHPPIWEHDYLQSLTSEYQGD TYKTRADKLKEEVRKMLNKVEDSS
SKLELVETLQRLGIYYHFEEIEKRILENIHNNGYTDMDKNKDLYATSLNF
RLLRQHGYDIPQEVFSTFKDESGTFKVHVPEDIKGILSFYESTFLSTRGE
SILDEAREFTTQNMKEYLKKIIDINKSDDIMATQVSHALEMPLHWRMLRL
ETRWFIDVYEKTDNKNEILLEFAKLDY NMVQVIHQEDLK YTSRWWKSTKL
GEKLSFARDRLEENFFWNVGFTFEPQFEY CRRMETKLLSLITIIDDIYDI

YGTLDLDELQLFTNAVERWDINAMEQLPDYMKTCFLSLYNTTNETAYDALKE
QNVNIISFLKNSWADLCKSYFIEAKWYHTGYKPNLDEYLENARISVTAPL
ILTHAYYFLTNPHPNVALECFEKYSSLRSTSIILRLADDLATSESEMKR
GDTPTSIQCYMYETGASEEEAREYIRYLISETWKKMNEDRVVNKDDSLFS
PIFVEMALNIARMGQCIYDHGDGFGIANRETMDRVTSFLFVEPISL

>NjTPS-76

MAFSFLPNFQISTISRQLPPALPQATIRKSKLKLAKCMASSTPTQPQTIV
RREANYHPPIWEHDYLSLTSEYQGDYKTRADKLKEEVRKMLNKVEDSS
SKLELVETLQRLGIYYHFEEIEKRILENIHNNGYTDMDKNKDLYATSLNF
RLLRQHGYDIPQDVFENFLDDNGKFKAYLSKDTKAMLCLYEASYLSTRKD
NILDEAREFASNHLKEYLKDNDNNNFLEKLVVHSLELPLHWRVGRLEAR
WFIDMYENKEDMNPIVLQLAKLDYNMVQAVHLEDLKYSRWWKSTSLGEN
LSFARDRLMENYIWTLEANFEPHLQYSRRMNTKVFALETTIDDVYDVYGT
LDELKLFTDILERWDVNAINQLPDYMKICFLVLFNAVNDMGYDALKNQNF
NIIPHLRNVVIY

>NjTPS-77

MESTTILCSFAFIFSLYLFHSLKFFCSSDRRRNLPLPPGTMGWPYIGET
FQLYSKNPNVFFASKVKKFGSIFKTHILGCPCVMISSPEAAKFVLVTKSD
IFKPTFPASKERMLGKQAIFFHQGDYHTKLRKLVLSFMPEAIRSIVPDI
ESIAIDSLKSFEGRMINTFQEMKTFTFNVALLSIFGKDEVLYREDLKRCY
YILEKGYNSMPINLPGTLFHKSMKARKELAQILAKILSLRRESSEDRLHDL
LGSFMGDKEGLTDEQIADNIIGVIFAARDTTASVMTWIVKYLAENPSVLQ
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LSFTFREAVEDVEFEG

>NjTPS-78

MASLRFSATVVPPSVAVSGGDLRDNSCFGNTIFSRKSSKKRDQLMSVVNV
ASKIPVVAPLPKREVAGGDGDDRRKLVAVKSVQQRWEGELVVEGEIPLW
LSGTYLNRNGPGLWHLGDYDFRHLFDGYATLVRLHFENGRLVMGHRQIESD
AYKAAKQNNKLCYREFSEVPKHDNFLSYIGDLANLFSGASLTDNANTGVV
RLGDGRVVCLTETIKGSIVVDPDTLDTLGKFEYSDSLGGLIHSAPIVTD
TEFLTLLPDLVNPGYLVVRMNPGTNERKVIGRVGCRGGPAPGWVHSFPVT
EHYIIVPEMPLRYCAQNLLKAEPPLYKFEWHPESKGYMHVMCKASGNIV
ASVEVPLFVTFHFAYEEKDEDGRVIAVVADCCEHNADTTILDKLRLQN
LRSYSGKEDVLPDAKVGRFIPLDGSPKGELVAALNPEEHGKGMDMCSIN

PAFLGKKYRYAYACGAQRPCNFPNTLT
KIDLVDDKKAKNWWDKGAVPSEPF
FVARPGATEEDDGVVISMISDKNGEGYALLD
GSTFEEIARAKFPYGLPY
GLHGCWVPKN

>NjTPS-79

MMLASSHYGHKTTTASTSTVPYKKQ
SIEGTERIRKMFKSNKVELSASP
YDTAWVAMVPSPNSSNAPCFPECLDWLLKNQ
LGNGSWGLPSHSHLLLKDTL
SSTLASVLALKRWNVGQSHINKGLHFMELNFQ
SAIDKNQHSPIGFDIIFP
GMLNYAKDLDLKLPLEPTLLNAMLHTRDLELN
RCYESKAAYLAYVSEGM
GKLQDWEIVMKKYQRKNGSIFNSPATAAVLTH
HLPDAASLNYIRLLD
KFGNAVPTVYPLDIYVRLCMIDNLERLGIDWH
FRDEIQTVLDETYRCWLQ
GDEQIFTDISTCAIAFRLLRMNGYDVSSDAL
TQIAEEGNYLNSPGDRNLK
GISDELELYKASQIIISPDESSALRKQNLQSS
NFLKQMLSDDSYCSDKLS
RSISQEVDDALNFPFCASLERMANRRYIEQYN
VDTSTIRVLKTSYFSSNI
GNKDFLKLAVEDFNKQSRHREDAAYLARWV
IENRLDKLKFVRQKSFGYM
SFSAAATSFTPKLSDARMSWAKNALLTTVVDD
FFDIGGSMDELLNLIYLV
DKWDNVDIESDCCSEHVGIIFSALQRGINEIA
EQAFVYQERNVTSHIVEI
WLDLLKSMLEAEWSRDRYVPSMEEYMENGYV
SFALGPILLPALYLVGPK
LSDESARSFQLKKLFRLMSNCGRLLNDIQGFK
RESKEGKLNSVSLRMMMM
MNEGDTDEGIIVNELKMLVESYKEELLRIVIE
EKESVLPRECKELFWKMT
KVVHQFYLKDDGFTSQHMMKAVNDVIYQPII
EEHQLE

>NjTPS-80

MLTLVIHCRCWTTMYLEVCSRIPALLYSETIY
NYVQKQNVYLIIFLIL
FAGKLNRLGLSVIDSYKLLKEGKELTDDEIFLT
CALGWCIEWLQAYFLVLD
DIMDNSQTRRGQPCWYKIPKVGMIAVNDGILL
RNHPRILKKHFRSKPYY
VDLIDLFNEVEFQTASGQMIDLITTEGEKDLS
KYSLSIHRRIVQYKTAY
YSFYLPVACALLMIGENLDNHVNVKDILIEMG
TYFQVQDDYLDCEGAPEV
IGKIGTDIEDFKCSWLNVKALELSNDEQKKFL
YENYGKEDHASVSKVKEL
YRTLKLEDVFADYESKSYEKLKFIKIEAHPSK
AVQEVLSFLGKIYKRKK

>NjTPS-81

MDVSTCAIAFRLLRMNGYDVSSDLLIRTAEEN
DCFSSSGGHLKGISDTLE
LYRASQIIISPDESNLRKHNSKSSHILKYALS
NDSFCSDKLATYIRQEV
DGLKFPFYASLERMENRRNIEQYSADCSVIR
VLKTSYCSPNIGNKDFLKL
AIEDFNFIQSIHREEIKHVESWVIEGKLDKLF
ARQREAYCLFSAAATFF
TPELSDARIWAQNAVLTVDDFFDNAGSPHEFL
NLIRLAEKWNVDIES

DCCSKEVGILFFAIHNANTEIADKAFICQGRSVTNHIVQIWLDYLKALWI
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FNKMFQLVSSCGRIINDTQTLEVIIIHTHTHVK

>NjTPS-82

MRIGTNHGSLSDRIMSYYGDSPRGMVESAFEFARICRKLDHFHNFVFSMKA
SNPVVMVQAYRLLVAEMYVQGWYDYLHLGVTEAGEGEDGRMKSAIGIGTL
LQDGLGDTIRVSLTEAPEQEIDPCRRLANLGMQATALQKGVAPFEEKHRH
YFDFQRRGTGQLPVQKEGDEVYRGVLHRDGSVLMSVSLDQLKTPELLYRS
LAAKLVVGMPFKDLATVDSILLREIPPVDDQDSRLALKRLIDISMGVITP
LSEQLTKPLLNAMVLVTLKELSTGAHKLLPEGTRLVSVRGDESIEELEI
LKSVDATMIFHNLPYTEEKIGRVHAARRLFDYLSSENSLDFPVIHHIKFPE
GIHRDDLVIAGTNAGALLVDGFGDGVLLLEASDQDFDLRNTSFNLLQGC
RMRNTKTEYVSCPSCGRTLFDLQEISAEIREKTSHLPGVSIAMGCIVNG
PGEMADADFGYVGGAPGKIDLYVGKTVVKRAIAMEQATDALIQLIKDHGR
WVDPAPLE

>NjTPS-83

MRIGTNHGSLSDRIMSYYGDSPRGMVESAFEFARICRKLDHFHNFVFSMKA
SNPVVMVQAYRLLVAEMYVQGWYDYLHLGVTEAGEGEDGRMKSAIGIGTL
LQDGLGDTIRVSLTEAPEQEIDPCRRLANLGMQATALQKGVAPFEEKHRS
YFDFQRRGTGQLPVQKEGEEVDVFRGVLHRDGSVLMSVSLDQLKSPELLYKS
LAAKLVVGMPFKDLATVDSILVRELPPVDDKDARLALKRLIDISMGITP
LSEQLTKPLPNAIVLVTLEKELSTGAHKLLPEGTRIAVSVRGDESTEELEI
LKSIDATMLLDLPYTDEKVGVRVQAARRLFEYLSNELNFPVIHHIEFPE
GIHRDDLVIAGTNAGALLVDGFGDGILLEAVDQDFDLRNTSFNLLQGC
RMRNTKTEYVSCPSCGRTLFDLQEISAEIREKTSHLPGVSIAMGCIVNG
PGEMADADFGYVGGAPGKIDLYVGKTVVKRAIAMEQATDALIQLIKDHGR
WVDPAPLE

>NjTPS-84

MATGSVSTSFTSLKSKDNGLGFNKSMDFVKICDTRRVKFSRSKAPVITNS
GSEIAELQPASEGSPLLVPQKYCESTNKTVRRKTRTVMVGNVAIGSEHP
IRIQTMTTTDTKDVGAGTVEQVMRIADRGADLVKITVQGRKEADACFEIKN
SLIQKNYTIPLVADIHFAPPIAMRVAECFDKIRVNPNGNFADRRRAQFEQLE
YTEDDYQKELEHIEQVFVPLVEKCKKYGRAMRIGTNHGSLSDRIMSYYG
SPRGMVESAFEFARICRKLDHFHNFVFSMKASNPVVMVQAYRLLLAEMYVH

GWDYPLHLGVTEAGEGEDGRMKSAIGIGTLLQDGLGDTIRVSLTEAPEQE
IDPCRRLANLGMQATALQKGVAPFEEKHRSYFDFQRRTGQLPVQKEGEEV
DFRGVLHRDGSVLMSSVSLDQLKSPELLYKSLAAKL VVGMPFKDLATVDSI
LVRELPPVDDKDARLALKRLIDISMGITPLSEQLTKPLPNAIVLVTLKE
LSTGAHKLLPEGTRIAVSVRGDESTEELEILKSIDATMLLHDLPTYDEKV
GRVQAARRYVLNISQKNLDFLNKIILYNSFFRKFIATTIKLLCTPHHTPH
TY

>NjTPS-85

MATGSVSTSFTSLKSKDNGLGFNKSMDFVKICDTRRVKFSRSKAPVITNS
GSEIAELQPASEGSPLLVPQKYCESTNKTVRRKTRTVMVGNVAIGSEHP
IRIQTMTTTDTKD VAGTVEQVMRIADRGADLVRITVQGRKEADACFEIKN
SLIQKNYTIPLVADIHFAPPIAMRVAECFDKIRVNPNGNFADRRAQFEQLE
YTEDDYQKELEHIEQVFVPLVEKCKKYGRAMRIGTNHGSLSDRIMSYYGD
SPRGMVESAFEFARICRKLDFHNFVFSMKASNPVVMVQAYRLLLAEMYVQ
GWDYPLHLGVTEAGEGEDGRMKSAIGIGTLLQDGLGDTIRVSLTEAPEQE
IDPCRRLANLGMQATALQKGVAPFEEKHRSYFDFQRRTGQLPVQKEGEEV
DFRGVLHRDGSVLMSSVSLDQLKSPELLYKSLAAKL VVGMPFKDLATVDSI
LVRELPPVDDKDARLALKRLIDISMGITPLSEQLTKPLPNAIVLVTLKE
LSTGAHKLLPEGTRIAVSVRGDESTEELEILKSIDATMLLHDLPTYDEKV
GRVQAARRLFEYLSENELNFPVIHHIEFPEGIHRDDLVIAGAGTNAGALLV
DGFGDGILLEAVDQDFDFLRNTSFNLLQGCRMNRNTKTEYVSCPSCGRTL
DLQEISAEIREKTSHLPGVSIAIMGCIVNGPGEMADADFGYVGGAPGKID
LYVGKTVVKRAIAMEQATDALIQLIKDHGRWVDPAPLE

>NjTPS-86

MEPQSWSIILLALFLATTLFLLRHRPKKNFPPGPKAWPIIGNIHQIGPLP
HHSFHSLSETYGPLLHLHLGSRPVVVASSPHMAEQILKTHDQTFASRPAL
ASAKYTSYNSSNVLWAPYGPHWRQARKIYSTELLSPKKLESYDYIIEEEN
ILFIRRLYKTRGESIKVKEELTRYMLSNLSRVVMGNEYFGSIMKLEELGE
ILDEWFLLNGVINLGDWIPWLGFLDLQGYVKRMKSLHKKFDMFNNSVLSY
HKNKVNEKEDMVDVLLKLANQPNLEVKLTNDGVKGLVQDLLVGGTDTSAT
TVEWAMLELLKNPHILKKAIKEVEEVIGNQRWVEEKDFGELPYIESIIKE
TLRLHPLATLLAPHFAIQDCKIDGYDILKGTTVFINTWSIGRNPLYWDNP
LEFKPERFSGKNSNIDVKGLNFELLFPFGSGRRMCPGYRLALNVVRSTLAN
LLHGFIWKLPNDIKIEDICMDEVYGIASHPKMSLDLVLEPRLPSTLYY

>NjTPS-87

MALNFLSPTTEIKGISFLDTSKSTYQIPKLQGGFGCMRKENGVKSVNRIS
CSSNPPPPPAWPGRAVVEPGRKVWDGPKPISIVGSTGSIGTQTLDIVAEN
PDKFNVVALAAGSNITLLADQVKTRFPQLVAVRNESLIGELREALADADY
KPEIVAGEQGVIEVARHPDCVTVVVTGIVGCAGLKPTVAAIEAGKDIALAN
KETLIAGGPFVLPLAQKHNVKILPADSEHSAIFQCIQGLPEGALRRIILT
ASGGAFRDWPVEKLKDVKVADALKHPNWNMGKKITVDSATLFNKGLEVIE
AHYLYGANYDDIEIVIHPSIIHSMIETQDSSILAQLGWPDMLPILYTL
SWPERIYCSEVTWPRDLCKLGSITFKSPDNVKYPSMDLAYAAGRSGGTM
TGVLSAANEKAVEMFIDEKISYLDIFKVVELTCEKHQAELVTSPSLEEII
YYDLWARDYAASLQPSSSGLNAVLV

>NjTPS-88

MALNFLSPTTEIKGISFLDTSKSTYQIPKLQGGFGCMRKENGVKSVNRIS
CSSNPPPPPAWPGRAVVEPGRKVWDGPKPISIVGSTGSIGTQTLDIVAEN
PDKFNVVALAAGSNITLLADQVKTRFPQLVAVRNESLIGELREALADADY
KPEIVAGEQGVIEVARHPDCVTVVVTGIVGCAGLKPTVAAIEAGKDIALAN
KETLIAGGPFVLPLAQKHNVKILPADSEHSAIFQCIQGLPEGALRRIILT
ASGGAFRDWPVEKLKDVKVADALKHPNWNMGKKITVDSATLFNKGLEVIE
AHYLYGANYDDIEIVIHPSIIHSMIETQDSSILAQLGWPDMLPILYTL
SWPERIYCSEVTWPRDLCKLGSITFKSPDNVKYPSMDLAYAAGRSGGTM
TGVLSAANEKAVEMFIDEKISYLDIFKVVELTCEKHQAELVTSPSLEEII
YYDLWARDYAASLQPSSSGLNAVLV

>NjTPS-89

MQAKPYHITPPKIPSPVKLPPATTVITSPEKVSQPISITVPTHRVISSPS
LVDDSVTAYWDYQFLFVSQRSETVDPITLRLVEGAVPPDFPLGTYYLTGP
GLFADDHGSTVHPLDGHGYLRAFTIDGVKSEVKFMARYIQTEAQSEERDS
VSGNWQFTHRGPFVSVLKGGKKLGNTKVMKNVANTSVLKWNERLFCLWEGG
TPYEINPGSLDTIGEFDVIHSGDSSTGGEFKVRDVWDFAAEILKPILYGI
FNMPPKRLLSHYKIDASRNRLIMSCNAEDMLLPRSHFTFYELDSNFKML
QTREFKIPDHLMIHDWAFTESHYILFGNRIRLDIPGSMTAVCGLSPMITA
LSLNPSKSTSPIYLLPRFPNNNEDEKKERDWKVAIEAPSQMWWLVHVGNAF
ENKGQNGNSQIQIQASGCSYQWFNFQTMFGYDWKSGKLDPSMMNADGGEK
LLPHLVQVSIDLDDKGNCEKCDVDILNQWEKAADFPIVNQHFSGSQNKHI
YAATSLGSRKALPHFPFDITIVKLNTDNKSSTATWSVGSRRFIGEPIFVPK
GIDEDDGYLLVVEYAVSTQMCYLVILDAKNIGEDNALVARLEVPKHLNFP

LGFHGFWAPA

>NjTPS-90

MWGYCRTTYMPMSYLYRKKYHGPITNLVLALRQEIYPIAYSEINWNKQRH
NCKEDLYYPHSFIQDLLWDSLHYFIEPIIKSWPFNKLSDRAIQRTMELM
HYGTKESTRYINMGCVEKSLQMMCAWAENPNDVAFRYHLARIPDYLWVAED
GMKMQSFGSQLWDCVLATQAIMASNMVEEYGDSLKNANFYIKESQIKDNP
SGDFTKMCRQFTKGSWTFSDQDHGWTVSDCTAESLSCLLKLSQMPSKIVG
DKVDVERLYEAVDVLLYLQSPTSGGFAIWEPPVPQPYPYLQVLNPSELFADI
VVEKEHVECTGSIIQALVEFKHLHPGYRKKEIQISITKAIHFLETQWHD
GSWYGYWGICFLYGTYFALKGFAAVGKTYNNSEAVRKAVQFLLSKQNKEG
GWGESFQSCPTEKFTPLDGNRTNLVQTSWAMLGLMLGGQAERDPTPLHKA
AKLLINAQMENGDFPQQEITGVYMKNCMLHYPEYKNIFPFWALGEYRKRI

>NjTPS-91

MVRILDLKPSMDAVYHWINPSPLDKNTEELIEKIRERFEKVDLSISAYDT
AWVAMVTSALRHQEPFCPGCLEWILENQKADGSWGLNLSHPSLLKDSLSS
TLACVIALQKLVGEKHIQRGLVFIGSKKYAAVDKYQSSPIGFDINFPAM
IKYANNLGLNLPLDSAFIDLMLHNRDIELQRCKPRDLAYFAEGLVGESSY
DWEEIKNQGSGNSLFSNPAATAVALINTRNDKCYDYLNLSLLKINHGKG
VPTIYPFHLYTRLCMVDTIDRLGINRHFANELKVILDETYRCWLQKSEEI
YSDVSCCSMAFRLLRKNGYHVSSDALEEFIDEEHFFSTLSPQFRNTSTVV
QLYRASQMSFFQNEPVLDKINEWTTNFLRHQLLNHEIFDDDLLREVNYAF
EYPIDNMPRLTNRRGIELYNTDSFRMLKTSYRCCSVNNEEFLVLSQQEFN
KTQQIHLEEYKQVEEWLKKHRIGGLEFEWHMVTSSYFLAASGYIPELSD
ARIIWAKVSVLGTIIDDLFDIDGTQEELNIVHLIQNWDGNPNISSLDYS
SERTEIMFLALTEINEQAAIGLIRQGRCIKKELIQIWQNFCKSCFKEVE
WWANKSTPTLDKYLANGCQTIGIGLWSITFYCVGIQLSQDTLISEEYQII
YKHLGLIMRLFNNDYQGVIDERDKVQRKMNGCLLLVSLSGGALTVEEARTE
VRKMIDISRKEVLRMMLTASSTTQKILMESFFCFHQQAYYLYTGNDYRI
PSKKGLNDINRLLYEPLNLI

>NjTPS-92

MPSRISDASKTHPVINIDKHLDLHSMKELPDSSHWSISLDGSPSGDSSGAD
NVTVPLIDLEDPNVIKLIGHACKTWGVFQIKNHGISNNLLDSMEGFAQKL
FNLPIQQKLKAARAPNGVSGYGVARISRFFSKLMWSEGFTIVGSPLQHAR
QLWPQDYNKFCDVVQEYEEEMKSLGGKLMRLMLGSLEIATKDVNWAGPNG

DFKASTAALQLNSYPACPDDRAMGLAAHTDSTLLTILHQNNTSGLQVKH
EGSGWVTVDPLPDTLVVNVGDLLHILSNGLYLSVLHRAVVNRTRHRLSIA
YLYGPPSNVEISPLSKLVENGQTPLYRSVTWSEYLGTKAKHFDKALSAVR
LCVSLNGFGDANDQNSVIVG

>NjTPS-93

MVVNNFSFINTTTNLFSEIPIPLTHPNAKKLIVKACEEFGFFKLVNHNV
SIDLMARLEDEALEFFNSPQSEKDQTAPPHPGYGNKRIGHNGDIGWVEY
LLFTINDPQLNSNNSLSIFARNQQTLWCLINEYIAAVRKMACEVLELITD
GLEIKPRDVLSRMLSDENSIDSIFRLNYYAPCVDHQQLREMNGRDIVGFGE
HTDPQIISVVKSNNINGLQICLKDGTWVAVPPDPYSFFINVDDSLQVMTN
GRFKSVKHRVLTNCIKSRVSMIYFGGPPLSENITPLTSLMEQTGEESLYK
HFTWSQYKNSAYNSKLGDRLKPFKEP

>NjTPS-94

MAVVASAPGKVLMTGGYLILERPNAIVLSTNARFYAIVKPLSHEIKLFG
DETEWTVYVKLTSPQMSRETMYKLSLKILTIECASSSDSRNPFVEYAVQYA
VAAAYATLDKNKKDELHRLLLHGLDITILGSNDFYSYRNQIEARGLPLSP
ESLATLSPFTSITFNDEESNGGKNSKPEVAKTGLGSSAAMTTAVVAALLH
YLGVVNLEGSDKDEKPQEKGNSDLDLVHIIAQTAHCIAQGKVGSGFDVSS
AAFGSQRYVRFSPAUISSAQDPVDGKPLEDDVIDDVIKWKWDHERTRFALP
PLMTLLLGEPSGGSSSTPSMVGAVKKWQKSDPQKSLETWTKLSDANSSLE
KQLNLLSNLAVQNWDAYESVINSQSMQVSQKWMEQTNELNQVEIVKALLG
ARDAMLLIRSLMRQMGNAADIPIEPESQTELLDETMMKMEGVVFAGVPGAG
GFDAIFAVTLGDSSTLTKTWSSRNVLAMLVREDPRGVSLETTDPRINN

>NjTPS-95

MSIANLSTSWIQINSTYGNPNKSRSTSKFLIHSFNYNKSLSLFFPFPS
KSISHCSLSISSILTKEQTEEKDKQSSSSLFDFNSYMIQKANSVNQALDD
AVSVREPLKIHESMRYSLLAGGKRIRPMLCIAACELVGGDEATAMPAACA
VEMIHTMSLMHDDLPCMDNDDLRRGKPTNHKVFGEDEVAVLAGDALLAFSF
EHATETAGVSSERIVRAVHELAKCIGAEGLVAGQIVDICSEGMAGVGVD
HLEFIHVHKTAALLEGSVVLGALLGGGSDDIEKLRKFARCIGLLFQVVD
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LSGFDSRKAAPLIALANYIAYRDN

>NjTPS-96

MASQQKNVGILAEIYFPPACIQQESLEAHDEVSKGKYTIGLGQDCMAFC
TEVEDVISMSLTAVTSLLEKYEIDPKQIGRLEVVGSETVIDKSKSIKTFLM
QIFEESGNTDIEGV DSTNACYGGTAALFNCVNWVESSCWDGRYGLVVCTD
SAVYAEGPARPTGGAAAIAMLIGPDAPIAFESKFRASHMAHVYDFYKPNL
ASEYPVVDGKLSQTCYLVALDSCYKRFC SKYEKLEGKQFSIADADYFVFH
SPYNKLVQKSFARLTFNDFMRNASSISEDAKEKLAPFSTLTGDESYQNRD
LEKASQQVAKALYDKKVTPSTLIPKQIGNMYTASLYAAFVSLLHNKNSSL
DGNRVVMFSYSGSGSTATMFSFHLNEGQHPFSL SNIKVMNVGDKLKS RTE
FPPKKFVETLHLMEHRYGAKDFVTSKDCSLLAPGTFYLTEVDSKYRRFYA
KKTGDSTVTVNGSLSNGVH

>NjTPS-97

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SAVYAEGPARPTGGAAAIAMLIGPDAPIAFESKFRASHMAHVYDFYKPNL
ASEYPVVDGKLSQTCYLVALDSCYKRFC SKYEKLEGKQFSIADADYFVFH
SPYNKLVQKSFARLTFNDFMRNASSISEDAKEKLAPFSTLTGDESYQNRD
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DGNRVVMFSYSGSGSTATMFSFHLNEGQHPFSL SNIKVMNVGDKLKS RTE
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KKTGDSTVTVNGSLSNGVH

>NjTPS-98

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YITEKGGRFHLRWGCREVLYDRSADGEMYVTGIAMSKATQKKIVKADAYV
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ERSRQSRQATGLDNLLYTPDADFSCFADLALTSPEDYYREGE GSLLQCVL
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PGKDPFRPNQKTPVKNFFLAGSYTKQDYIDSMEGATLSGRQASAYICDAG
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>NjTPS-99

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GRRSKMHTIRKTSGLAGFPKRDESVYDSFGAGHSSTSISAGLGMAVGRDL
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TLDGPATPVGALSSALS KLQASPKFRQLREAAKSVTKQIGPEAHEIAAKV
DEYARGMVSATGASLFEELGLYYIGPVDGHNLEDLV TIFERVKSMPAAGP
VLHIVTEKGGKGYPPAEAAADKMHGVVKFDVKTGKQDKVKSPTLSYTQYF
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FAAGMATEGLKPFCAIYSSFLQRGYDQVVHDVDLQKIPVRFAMDRAGLVG
ADGPTHCGAFDITYMACLPNMVVMAPSDEAELMHIVATAASIDDRPSCFR
FPRGNGIGAVLPPNNKGIPIEVGKGRILIEGTRVAILGYGSIVQQCLGAA
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>NjTPS-100

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GPISIPSLYVVGPELSEEVVHSLEFKKMFKLMSTCGRILNDIQSLERETK
QGKLNFI SLLMIHGGGGGGITKEEAIDQAKKLIK TQRELLSLLLKKGSI
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>NjTPS-101

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SLGKDVESIYVEKLGTTFSREELFDIFVLEPLMGALDVDWRDFFPYLKWV
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VSDKIIIEKLSQLPYLCAVFHETLRKYSPVPVIPLRYVHEDTEIGGYHVP
AGSEIAINIYGCNMDNKVWENPEDWNPERFLENKNNTMDLHVTMAFGGGK
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AIIEPRA

>NjTPS-102

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KLANENEEHMLIGFEIVLPGLIQRARKLEIEVPNDSHPIKEIYAKRNLK
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AFIHTKDLKCLTYLTQVVDKFNGRVPIYPVDLFARNWFIDQIQRLGISR
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ISPDAFWHFKYGDAFCCFPRQSSESVTAFDLLRASQLQFPGEKVLDETK
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YQQSVHVFNACGRDIHLPLFHAWEIWLMTWQEEDVNHVDSHSQS SVLLA
TTINMFGGRLVTDQISSHPQYHRLTQLIAKICNHLHPHHVSDDEYCLDRK
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>NjTPS-103

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DGNELKASLIVDASGFASTFVEYDKPRNHGYQIAHGILAEVEEHPFDLDK
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LPYIEIKKRMVARLRHLGIRVKKVIEEEKCVIPMGGS LPRIPQRIMGVGG
TAGLVHPSTGYMVARTLALAPVLGDAIAECLGSTRMIRGDPLSRRVWDGL
WPLDKRCVRDYYSFGMETLLKLDLKGTRGFFDAFFDLDPYYWHGFLSSRL
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>NjTPS-104

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DQGQLSAIARQGSGSACRSLYGGFVKWVMGKDEKGTDSIAVQLADEKHWD
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AEGTPQVAYTFDAGPNAVMIARDRKTAALLQRLLFHFPPhSDTNLDSYV
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>FhLin

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>AmMyr

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MLSD

>Cstps1

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>OsCyc2

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ALLVRTIEICSGRHGSAEQSLKNSADYARLEQIASSMCSKLATKILAQNGGSM
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>OsDTC2/KS8

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FAERSSFDDSIHAYLNDTKPLLELYKSSQVHFLEEDFILENIGSWSAKLLKQQL
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>SITPS38

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RDRLVEGFFWAVGFTPNPQF
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LIMHAYFCITNPIKEDE
LQRLNHYPAYISPSLILRLANDLATSPDEIKKGDYLSIQCYMHDSKSCEENA
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T

>VvaTerP

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>PcAFS1

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GCNSSSVSILLVHSFFSITHEGTKEMADFLHKNEDLLYNLSLIVRLNNDLG TSA
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>AtTPS14

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TEISMKIYKSHGWNPTYALRQSWASLCKAFLVEAKWFNSGYLPTTEEYMKNG
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>GmNES

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CLQFVIE

>MdGDS-RG1

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>SITPS12

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FISKETFWMINEPLIVRASSLIARAMDDIVGHEVEQQREHGASLIECYMKDY
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>SITPS41

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TINN HISKVLFQKA

>LnTPS3

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