>Tn3

MPVDFLTTEQVESYGRFTGEPDELQLARYFHLDEADKEFIGKSRGDHNRLGIALQIGCVRFLGTFLTDMNHIPSGVRHFTARQLGIRDITVLAEYGQRENTRREHAALIRQHYQYREFAWPWTFRLTRLLYTRSWISNERPGLLFDLATGWLMQHRIILPGATTLTRLISEVREKATLRLWNKLALIPSAEQRSQLEMLLGPTDCSRLSLLESLKKGPVTISGPAFNEAIERWKTLNDFGLHAENLSTLPAVRLKNLARYAGMTSVFNIARMSPQKRMAVLVAFVLAWETLALDDALDVLDAMLAVIIRDARKIGQKKRLRSLKDLDKSALALASACSYLLKEETPDESIRAEVFSYIPRQKLAEIITLVREIARPSDDNFHDEMVEQYGRVRRFLPHLLNTVKFSSAPAGVTTLNACDYLSREFSSRRQFFDDAPTEIISQSWKRLVINKEKHITRRGYTLCFLSKLQDSLRRRDVYVTGSNRWGDPRARLLQGADWQANRIKVYRSLGHPTDPQEAIKSLGHQLDSRYRQVAARLGENEAVELDVSGPKPRLTISPLASLDEPDSLKRLSKMISDLLPPVDLTELLLEINAHTGFADEFFHASEASARVDDLPVSISAVLMAEACNIGLEPLIRSNVPALTRHRLNWTKANYLRAETITSANARLVDFQATLPLAQIWGGGEVASADGMRFVTPVRTINAGPNRKYFGNNRGITWYNFVSDQYSGFHGIVIPGTLRDSIFVLEGLLEQETGLNPTEIMTDTAGASDLVFGLFWLLGYQFSPRLADAGASVFWRMDHDADYGVLNDIARGQSDPRKIVLQWDEMIRTAGSLKLGKVQASVLVRSLLKSERPSGLTQAIIEVGRINKTLYLLNYIDDEDYRRRILTQLNRGESRHAVARAICHGQKGEIRKRYTDGQEDQLGALGLVTNAVVLWNTIYMQAALDHLRAQGETLNDEDIARLSPLCHGHINMLGHYSFTLAELVTKGHLRPLKEASEAENVA

>Tn1

MPVDFLTTEQTESYGRFTGEPDELQLARYFHLDEADKEFIGKSRGDHNRLGIALQIGCVRFLGTFLTDMNHIPSGVRHFTARQLGIRDITVLAEYGQRENTRREHAALIRQHYQYREFAWPWTFRLTRLLYTRSWISNERPGLLFDLATGWLMQHRIILPGATTLTRLISEVREKATLRLWNKLALIPSAEQRSQLEMLLGPTDCSRLSLLESLKKGPVTISGPAFNEAIERWKTLNDFGLHADNLSTLPAVRLKNLARYAGMTSVFNIARMSPQKRMAVLVAFVLAWETLALDDALDVLDAMLAVIIRDARKIGQKKRLRSLKDLDKSALALASACSYLLKEETPDESIRAEVFSYIPRQKLAEIITLVREIARPSDDNFHEEMVEQYGRVRRFLPHLLNTVKFSSAPAGVTTLNACDYLSREFSSRRQFFDDAPTEIISRSWKRLVINKEKHITRRGYTLCFLSKLQDSLRRRDVYVTGSNRWGDPRARLLQGADWQANRIKVYRSLGHPTDPQEAIKSLGHQLDSRYRQVAARLGENEAVELDVSGPKPRLTISPLASLDEPDSLKRLSKMISDLLPPVDLTELLLEINAHTGFADEFFHASEASARVDDLPVSISAVLMAEACNIGLEPLIRSNVPALTRHRLNWTKANYLRAETITSANARLVDFQATLPLAQIWGGGEVASADGMRFVTPVRTINAGPNRKYFGNNRGITWYNFVSDQYSGFHGIVIPGTLRDSIFVLEGLLEQETGLNPTEIMTDTAGTSELVFGLFWLLGYQFSPRLADAGASVFWRMGHDANYGVLNDIARGQSDPRKIVLQWDEMIRTAGSLKLGKVQASVLVRSLLKSERPSGLTQAIIEVGRINKTLYLLNYIDDEDYRRRILTQLNRGESRHAVARAICHGQKGEIRKRYTDGQEDQLGALGLVTNAVVLWNTMYMQAALDHLRAQGETLNDEDIARLSPLCHGHINMLGHYSFTLAELVTKGHLRPLKEASEVENVA

>Tn2

MPVDFLTTEQTESYGRFTGEPDELQLARYFYLDEADKEFIGKSRGDHNRLGIALQIGCVRFLGTFLTDMNHIPSGVRHFTARQLGIRDITVLAEYGQRENTRREHAALIRQHYQYREFAWPWTFRLTRLLYTRSWISNERPGLLFDLATGWLMQHRIILPGATTLTRLISEVREKATLRLWNKLALIPSAEQRSQLEMLLGPTDCSRLSLLESLKKGPVTISGPAFNEAIERWKTLNDFGLHAENLSTLPAVRLKNLARYAGMTSVFNIARMSPQKRMAVLVAFVLAWETLALDDALDVLDAMLAVIIRDARKIGQKKRLRSLKDLDKSALALASACSYLLKEETPDESIRAEVFSYIPRQKLAEIITLVREIARPSDDNFHEEMVEQYGRVRRFLPHLLNTVKFSSAPAGVTTLNACDYLSREFSSRRQFFDDAPTEIISRSWKRLVINKEKHITRRGYTLCFLSKLQDSLRRRDVYVTGSNRWGDPRARLLQGADWQANRIKVYRSLGHPTDPQEAIKSLGHQLDSRYRQVAARLCENEAVELDVSGPKPRLTISPLASLDEPDSLKRLSKMISDLLPPVDLTELLLEINAHTGFADEFFHASEASARVDDLPVSISAVLMAEACNIGLEPLIRSNVPALTRHRLNWTKANYLRAETITSANARLVDFQATLPLAQIWGGGEVASADGMRFVTPVRTINAGPNRKYFGNNRGITWYNFVSDQYSGFHGIVIPGTLRDSIFVLEGLLEQETGLNPTEIMTDTAGASELVFGLFWLLGYQFSPRLADAGASVFWRMDHDADYGVLNDIARGQSDPRKIVLQWDEMIRTAGSLKLGKVQASVLVRSLLKSERPSGLTQAIIEVGRINKTLYLLNYIDDEDYRRRILTQLNRGESRHAVARAICHGQKGEIRKRYTDGQEDQLGALGLVTNAVVLWNTIYMQAALDHLRAQGETLNDEDIARLSPLCHGHINMLGHYSFTLAELVTKGHLRPLKEASEAENVA

>Tn801

MPVDFLTTEQTESYGRFTGEPDELQLARYFHLDEADKEFIGKSRGDHNRLGIALQIGCVRFLGTFLTDMNHIPSGVRHFTARQLGIRDITVLAEYGQRENTRREHAALIRQHYQYREFAWPWTFRLTRLLYTRSWISNERPGLLFDLATGWLMQHRIILPGATTLTRLISEVREKATLRLWNKLALIPSAEQRSQLEMLLGPTDCSRLSLLESLKKGPVTISGPAFNEAIERWKTLNDFGLHADNLSTLPAVRLKNLARYAGMTSVFNIARMSPQKRMAVLVAFVLAWETLALDDALDVLDAMLAVIIRDARKIGQKKRLRSLKDLDKSALALASACSYLLKEETPDESIRAEVFSYIPRQKLAEIITLVREIARPSDDNFHEEMVEQYGRVRRFLPHLLNTVKFSSAPAGVTTLNACDYLSREFSSRRQFFDDAPTEIISRSWKRLVINKEKHITRRGYTLCFLSKLQDSLRRRDVYVTGSNRWGDPRARLLQGADWQANRIKVYRSLGHPTDPQEAIKSLGHQLDSRYRQVAARLGENEAVELDVSGPKPRLTISPLASLDEPDSLKRLSKMISDLLPPVDLTELLLEINAHTGFADEFFHASEASARVDDLPVSISAVLMAEACNIGLEPLIRSNVPALTRHRLNWTKANYLRAETITSANARLVDFQATLPLAQIWGGGEVASADGMRFVTPVRTINAGPNRKYFGNNRGITWYNFVSDQYSGFHGIVIPGTLRDSIFVLEGLLEQETGLNPTEIMTDTAGTSELVFGLFWLLGYQFSPRLADAGASVFWRMGHDANYGVLNDIARGQSDPRKIVLQWDEMIRTAGSLKLGKVQASVLVRSLLKSERPSGLTQAIIEVGRINKTLYLLNYIDDEDYRRRILTQLNRGESRHAVARAICHGQKGEIRKRYTDGQEDQLGALGLVTNAVVLWNTMYMQAALDHLRAQGETLNDEDIARLSPLCHGHINMLGHYSFTLAELVTKGHLRPLKEASEVENVA

>Tn1331

MPVDFLTTEQTESYGRFTGEPDELQLARYFHLDEADKEFIGKSRGDHNRLGIALQIGCVRFLGTFLTDMNHIPSGVRHFTARQLGIRDITVLAEYGQRENTRREHAALIRQHYQYREFAWPWTFRLTRLLYTRSWISNERPGLLFDLATGWLMQHRIILPGATTLTRLISEVREKATLRLWNKLALIPSAEQRSQLEMLLGPTDCSRLSLLESLKKGPVTISGPAFNEAIERWKTLNDFGLHADNLSTLPAVRLKNLARYAGMTSVFNIARMSPQKRMAVLVAFVLAWETLALDDALDVLDAMLAVIIRDARKIGQKKRLRSLKDLDKSALALASACSYLLKEETPDESIRAEVFSYIPRQKLAEIITLVREIARPSDDNFHEEMVEQYGRVRRFLPHLLNTVKFSSAPAGVTTLNACDYLSREFSSRRQFFDDAPTEIISRSWKRLVINKEKHITRRGYTLCFLSKLQDSLRRRDVYVTGSNRWGDPRARLLQGADWQANRIKVYRSLGHPTDPQEAIKSLGHQLDSRYRQVAARLGENEAVELDVSGPKPRLTISPLASLDEPDSLKRLSKMISDLLPPVDLTELLLEINAHTGFADEFFHASEASARVDDLPVSISAVLMAEACNIGLEPLIRSNVPALTRHRLNWTKANYLRAETITSANARLVDFQATLPLAQIWGGGEVASADGMRFVTPVRTINAGPNRKYFGNNRGITWYNFVSDQYSGFHGIVIPGTLRDSIFVLEGLLEQETGLNPTEIMTDTAGASELVFGLFWLLGYQFSPRLADAGASVFWRMDHDADYGVLNDIARGQSDPRKIVLQWDEMIRTAGSLKLGKVQASVLVRSLLKSERPSGLTQAIIEVGRINKTLYLLNYIDDEDYRRRILTQLNRGESRHAVARAICHGQKGEIRKRYTDGQEDQLGALGLVTNAVVLWNTIYMQAALDHLRAQGETLNDEDIARLSPLCHGHINMLGHYSFTLAELVTKGHLRPLKEASEVENVA

>Tn6238

MPVDFLTTEQVESYGRFTGEPDELQLARYFHLDEADKEFIGKSRGDHNRLGIALQIGCVRFLGTFLTDMNHIPSGVRHFTARQLGIRDITVLAEYGQRENTRREHAALIRQHYQYREFAWPWTFRLTRLLYTRSWISNERPGLLFDLATGWLMQHRIILPGATTLTRLISEVREKATLRLWNKLALIPSAEQRSQLEMLLGPTDCSRLSLLESLKKGPVTISGPAFNEAIERWKTLNDFGLHAENLSTLPAVRLKNLARYAGMTSVFNIARMSPQKRMAVLVAFVLAWETLALDDALDVLDAMLAVIIRDARKIGQKKRLRSLKDLDKSALALASACSYLLKEETPDESIRAEVFSYIPRQKLAEIITLVREIARPSDDNFHDEMVEQYGRVRRFLPHLLNTVKFSSAPAGVTTLNACDYLSREFSSRRQFFDDAPTEIISQSWKRLVINKEKHITRRGYTLCFLSKLQDSLRRRDVYVTGSNRWGDPRARLLQGADWQANRIKVYRSLGHPTDPQEAIKSLGHQLDSRYRQVAARLGENEAVELDVSGPKPRLTISPLASLDEPDSLKRLSKMISDLLPPVDLTELLLEINAHTGFADEFFHASEASARVDDLPVSISAVLMAEACNIGLEPLIRSNVPALTRHRLNWTKANYLRAETITSANARLVDFQATLPLAQIWGGGEVASADGMRFVTPVRTINAGPNRKYFGNNRGITWYNFVSDQYSGFHGIVIPGTLRDSIFVLEGLLEQETGLNPTEIMTDTAGASDLVFGLFWLLGYQFSPRLADAGASVFWRMDHDADYGVLNDIARGQSDPRKIVLQWDEMIRTAGSLKLGKVQASVLVRSLLKSERPSGLTQAIIEVGRINKTLYLLNYIDDEDYRRRILTQLNRGESRHAVARAICHGQKGEIRKRYTDGQEDQLGALGLVTNAVVLWNTIYMQAALDHLRAQGETLNDEDIARLSPLCHGHINMLGHYSFTLAELVTKGHLRPLKEASEAENVA

>Tn1000

MPVDFLTSDQKQNYGCYAAEPNDVQLARYFHLDERDLAFINQRRGKHNRLGIALQLTTARFLGTFLTDLTQVLPGVQHFVAVQLNIHRPEVLSRYAERDTTLREHTALIKEYYGYHEFGDFPWSFRLKRLLYTRAWLSNERPGLMFDFATAWLLQNKVLLPGATTLVRLISEIRERANQRLWKKLAALPNKWQAAQVMELLVIPEGQRVSALEQLKKGPVTVSGPAFNEALERYIRLRSLEFSRLNFSGLPAIQLRNLARYAGMASVKYIARMPQQRKLAVLTAFVKAQEITALDDAVDVLDMLILDIIREAKKTGQKKRLRTLKDLDQAALLLARACALLLDDNTDVPDLRQVIFKCVPKNRLAESVSKVNELARPQNNNFHDEMVEQYGRVKRFLPAVLRDLHFRAAPAGEHVLAAIHYLAELNGSKKRILDDAPEHIITGPWKRLVYDAEGRIQRAGYSLCLLERLQDALRRRDIWLENSDRWGDPREKLLQGEEWQTQRIPVCRALGHPVDGRKGVQQLAIQLDETWKAVASRFEKNAEVHICNEGKYPSLTISCLEKQEEPPSLLRLNNRIKQLLPPVDLTELLLEIDAQTGFTHEFAHVSESGARAQDLHISLCAVLMAEACNIGLEPLIKHNIPALTRHRLSWVKQNYLRAETLVSANARLVDFQSTLELAGRWGGGEVASADGMRFVTPVKTINSGSNRKYFGSGRGITWYNFVSDQYSGFHGIVVPGTLRDSIFVLEGLLEQQTGLNPVEIMTDTAGSSDIIFGLFWLLGYQFSPRLADAGEAVFWRVNKSANYGVLDKLARGYADLSKAESQWDEMMRTAGSLKLGTIHASELIRSLLKSSRPSGLAQAIMEVGRVNKTLYLLNYIDDEDYRRRILTQLNRGEGRHAVARAICYGQRGEIRKRYREGQEDQLGALGLVTNAVVLWNTLYMEEALSWMRRNGEEIIDEDIARLSPLMHGHINMLGHYTFTLPEDILKGELRALNLNINNELSP

>Tn5070

MPVDFLTSEQKANYGQFSAEPNEVQLARYFHLDEADLAFINHRRGNQNRFGVALQLGCVRFLGTFMSNLPQVPVNAQWFVARQLGLNDVAILSTYAQRETTRREHAALIRDQYQYREFSWPWSFRLSRFVYTRSWISNVRPCLLFDLATGWLVQHKILLPGETTLSRLISEVRERATNRLWQRLARLPTSKQIAKLETLLQVPEGTRTSRFDRYRKGPVTISGPAFNEAIDRYQALKAFGMHELDFTGIPPVRFKNIARHAGMISMHKIARIPEQKRTAILVAFAKTYETVALDEALDVLDLLITHIAGEAKKLGQKKRLRTLKDLDKSALALAEVCTLILTESMQDEQLRSAIFARMSREKLATSIATVHELARPYDDNFQDEMVEQYGRVRRFLPKLLRDIVFKAAPAGKATLEAHQYLGGLLESRKLLLDEAPLDIVSNPWKRLVFDKEDRVTKRGYTLCFLDKLQDSLRRRDIYVENSDRWGDPRAKLLQGPEWQANRIQVCRSLGHPLNPQEAIDALVRQLDASYRQVASNFDNNKAVELDLSGKRPTLTITNFAKLDEPPSLTQLSQQVESLVPSVDLTELLLEIHAHTGFADEFTHVSESNARAEDLTVSVCAVLLAEACNIGLESLIKHQVPALTRHRLSWVKQNYLRAETLVKANAKLVNYQSTLSLANKWGGGEVASADGMRFVTPIRTINAGPNRKYFGSSRGITWYNFVSDQFSGFHGIVVPGTLRDSIFVLEGLLEQQTGLNPMEIMTDTAGASDMVFGLFWLLGYQFSPRLADAGESVFWRVDKAADYGPLDELARSCVNTHKIEQHWDDMMRIAGSLKLGTVQASELIRSLLKSERPSSLAQAIIEAGRINKTLYLLNYVDDEDYRRRILTQLNRGESRHAVARAICHGQRGEIRKRYREGQEDQLGALGLVTNALVLWNTIYMQAALDHLKQQGEDVKAEDEARLSPLSHKHVNMLGHYSFTLTEQVLNGQLRPLKQPPELDKWP

>Tn6902

MSVEFLSEEQAGGFGRFLGEPSRADLERFFYLDDADLELIAKRRGDHNRLGFAVQLGTIRFLGVLLADPLDVPWGVVDYLSARLGTADPSIVKKYMRRRPTVHEHAREIRAVYGYRDLVGPVLEDLSAYVYSRAWTHGEGPSVLFELATAWLRRERVLLPGVTTLVRVVQSAREAAQSGVYGVVATAASAVDPRLPVVLRGLLVTDRGERVSRLELLRAGPTRVSGPELDKALGRVAALRALGARAVDLSAVPPARVRALARYGIGAKAQSLRRLAEPRRTATLVATVTALEANAVDDALDLFDLLMTTRVLDPSRRAAVAERLAKMPELEKASGVLARVGARLLRVLEESGDQVDVAAAWAALEQVAARDRIADAVAKVGELVPDESGADGAMRGQMARRFRTVAPFLRLLATTIPWGATAAGQPLLEALARLDGLRGRRKVRREEIDEALVPRAWHAAVFGRAGGAGVDRDAWVVCVLEQLRSGLRRRDVFAVGSTRWGDPRTRLLDGPAWEAVREQALTSLSLHAPVSEHLRTRTEVLDAAWRGLAAAIGQTGPDGSVQLTEGPDGRVRLTVSPLEALEIPDSLTKLRKQVAAMLPRVDLPKILLEVHSWTGFLHAYTHIGQSGSRMRDLPVSVAAVLIAQACNVGLTPVVAEGHPALTRDRLGHVDANYVRAETHAAANALLIDAQAGVPIASSWGGGLLASVDGLRFVVPVRTINAAPNPKYFGRGRGLTWFNAVNDQAAGIGGVVVPGTVRDSLYVLDTMLNLDGGPKPEMVASDTASYSDLVFGIFTLLGYRFAPRIADLSDQRLWRTGMPGGEADYGALNAVARNKVNLAKITAHWDDMTRVAASLVTGTVRAYDVLRMLTRDNGAPNPLGAAIAEYGRIAKTLHLLALIDPTDETYRRSINTQLTVQESRHRLARAIFHGRRGQIHQRYREGQEDQLGALGLVLNAVVLWNTRYTAAAVTALREAGQDIPETDLARPSPLADQHINMLGRYAFTAPTPDGLRPLQDPAAGQIER

>Tn4556

MERFFFLDDADRELIEPKRRAHNRLGFAAQLTTVRYLGVFLDDPADVPPEVVDYLAEQLDIGDPSVLKEYGERENTRLEHVRELRRVLEYREFAEAEGELREWVDARAWTTGEGPKALFDAAAGWLRERRVLLPGVTTLTRLVASVREAANQRLWDSLHGMLSTGQRAVLDSLGWTVPPGERVSELDRLRRGPVRVSGPQMKRALERAEEIAAFGMGAVDVSRIPPRRLAELSRYGVDGKASLLRRHSDARRLATLLATTVYLTSRAVDDALDLLEVLIATKLLARAERESAKEKLKSLPRVERASAKLATAFQVVFDTTSEQVDTDTGEIPPPKVESLEGMWAAIEQVVPRHELAAAIAALFELTPPLDSDADEAWRAMLINRFGTVRPFLKLLVSVVDFDATPEGEAVLGALLSLPELMGRKKVGPAEIDADLLTGSWRRLVLAAPHLEPGTVDWKAYTFCVLEHLHRMLRSKQVFAKNSSKWGDPRAKLLAGQAWQQARPTVLASLNLPGEADGHLAARAALLDGTYREVAARVPDSAQIVFDDDGRLHFAALEPEPEPASLLELRAAVNAMLPRVDLPEVLLEVFSWTGADQAFTSVTAGEARLKDLNVTIAALLVAHGCNVGYTPVMGGADPLKYGRLSHVDQTYLRLATYRAANATLIEHQASIPLAQTWGGGLVASVDGMRFVVPVPSVYARPNPKYFGRRGGATWLNMINDQAAGLGGKVVAGTPRDSLYVLDVLYDRDGGKRPEMIVTDTASYSDIVFGLLTLAGFAYAPQLADLPDQKMWRVDRTADYGAFQDAARGRIDLARIERHWEDILRIIGSIHTGAVRAYDVIRMLSRDGRPTPLGDAIAHYGRIAKTLHILRLADEPGYRRQIKVQANLQEGRHALARKIFHGKQGQLYQRYQDGMEDQIGALGLVLNALVLFNTRYMDAAVNQLRADGFDVRDEDVARLSPFVRHHINMLGRYSFQLPDLPGGLRPLRDKTATDDM

>Tn6903

MPVDFLTPEQEEKYGCFCDTPTSEQLAKYFWLDDTDKELIWNRRGEHNQLGFAVQLGTVRFLGTFLSDPTNVPQSVITYMANQLHLDAQSFSRYRNKRSQWDQMQEIRSVYGYKNFTDKSTHWRFIRWLYARAWLYNERPSVLFDLATARCIEQKILLPGVSVLTRLVSTVRDRSAENIWKKLSSLPDNVQKKQLENLLQIDQKTKKTYLERLSNPPVTISVTGIKNTLIRLQELRQLNTENWDMSRIPSKRLQQFARHTVAVRAQAIARMPDQRRMAMLVAFAKMYTQSAQDDVIDIFDRYLTDLFAKTYRKEQKERLRTIKDLDKAARQLREACVILLEHTDPSIHPKTAVFEKISEKDLIQAVQIVDSLTYSPNQTLAYSGLLQHYGTIRKFLPLLMEEIELQATPAGLPILQAWNFVKEHGKSNKKRWKNAPLAGLNANWSKVVIDKDSGTVNHRAYTFWMLEQVLEALHRHDLYIVGSEKYGDLRAQLLQGEEWKSIRPSILRSLDWSIDSYESLTPLKEELEKTYHQVIENWENNPAVQIDTFAGKERIVLTPLDKQPEPESLQKLKQQIHTMLPNIDIPQLLLEVNRWTGFMDGFRHISEAKSRINELPISICALLISQACNIGLRPLVQDGVPSLERDRLTWIEQNYFRAETLSESNAKLVDFHSQLQLAKMWGGGEIASADGLRFITPVKSVHTGPNPKYFGSGRGVTYYNYTSDQFTGLHGLVIPGTIRDSLYLLQCVLEQNTNLQPKEIMTDTAGYSDIIFGLFGLLGYQFSPRLADISESRLWRFDANSDYSMLNNLSKSRIREELIHRHWEDMLRVAGSLKLNKINATHLIQALQYNGKPTMLGRAIGELGRLFKTRYLLLYLHDENYRRKILNQLNRGEARHSLARAVFYGKRGELHQSYREGQEEQLGALGLVVNAIIVWNTRYIESALQVLRNRGHTIDNDDISRLSPLGHKHINIVGRYSFVLPEEVKDGQLRTLTYEETNKKEPDSL

>Tn5401

MPVDFLTPEQEEKYGCFCDTPTSEQLAKYFWLDDTDKELIWNRRGEHNQLGFAVQLGTVRFLGTFLSDPTNVPQSVITYMANQLHLDAQSFSRYRNKRSQWDQMQEIRSVYGYKNFTDKSTHWRFIRWLYARAWLYNERPSVLFDLATARCIEQKILLPGVSVLTRLVSTVRDRSAENIWKKLSSLPDNVQKKQLENLLQIDQKTKKTYLERLSNPPVPISVTGIKNTLIRLQELRQLNTENWDMSRIPSKRLQQFARHTVAVRSQAIARMPDQRRMAMLVAFAKMYTQSAQDDVIDIFDRYLTDLFAKTYRKEQKERLRTIKDLDKAARQLREACVILLEHTDPSVHPKTAVFEKISEKDLIQAVQIVDSLTYSPNQTLAYSGLLQHYGIIRKFLPLLMEEIELQATPAGLPILQAWNFVKEHGKSNKKRWKNAPLAGLNANWSKVVIDKDSGTVNHRAYTFWMLEQVLEALHRHDLYIVGSEKYGDLRAQLLQDEEWKSIRPSILRSLDWSIDSYESLTPLKEELDKTYHQVIENWENNPAVQIDTFAGKERIVLTPLDKQPEPESLQKLKQQIHTMLPNIDIPQLLLEVNRWTGFMDGFRHISEAKSRINELPISICALLISQACNIGLRPLVQDGVPSLERDRLTWIEQNYFRAETLSESNAKLVDFHSQLQLAKMWGGGEIASADGLRFITPVKSVHTGPNPKYFGSGRGVTYYNYTSDQFTGLHGLVIPGTIRDSLYLLQCVLEQNTNLQPKEIMTDTAGYSDIIFGLFGLLGYQFSPRLADISESRLWRFDANSDYSMLNNLSKSRIREELIHRHWEDMLRVAGSLKLNKINATHLIQALQYNGKPTMLGRAIGELGRLFKTRYLLLYLHDENYRRKILNQLNRGEARHSLARAVFYGKRGELHQSYREGQEEQLGALGLVVNAIIVWNTRYIESALQVLRNRGHTIDNDDISRLSPLGHKHINIVGRYSFVLPEEVKDGQLRTLTYEETNKKEPDSL

>Tn5046

MPVGFLTQEQRDGFGRYVDAPSREELERYFHLSDDDHKILLPLRGEHNRLGYATQLTSIRYLGTFPDDFSAVPQEVLQALSRQLGITDPTCILAYAETRQRQRHAAEIQERYGYRVFADSSVGFRLARWLYALCWTGTDRPGELFNRATTWLLTHKVLLPGVTVLERFIAQLRSRVEERLWLTLGRSVSEAQRQQLQDLLLVAEGNRSSRLDQLRSGPVMVSGPALIRALRRLDDVRGIGIALPAAAHIPPSRIAALARFANTAKVTAINRLPASRRMATLVAFALCLEATAHDDALEVLEALLRDLFSNAEKADKKARMRSLKDLDRSAATLAAACKVVLDSSISDDNVRARLFNDLPRASLEKALEDVNALIRPVDDVYFLALEARYRSVRRFLPDLLKHIRFGFSPAGKGVVAGLDWLQLNLPRRKPEDDAPQEIVAKAWQKHITREDGSLDMGAYVFCTLDALRTALRRRDVFVSPSWRYADPRLGLLDGAEWLAARPIICRSLGLTIDAGTTLDALSAELDATWQAVAARLPDNPAIQLSENAEGKTELSLGTLDKLEEPNSLLQLRAAVADLMPRVDLPEILLEIAARTGFAEAFTHVSERNARADNLVTSLCAVLLGGACNTGLEPLIRTDNQALRRDRLSWVSQNYIRDDTLSVANAILVGAQSQLELAQVWGGGEVASADGMRFVVPVRTVHAGPNPKYFGTGRGVTWYNLISDQFSGLNAITVPGTLRDSLVLLAVVLEQQTELQPTQIMTDTGAYSDVVFGLFRLLGYHFSPRLADVGGTRFWRTRPEADYGKLNGLARQSVKLDLIAEHWDDLLRLAGSLKLGRVPATGIMRTLQTGDRPTRLAQALAEFGRIEKTLHTLTYIDDESKRRATLTQLNRGEGRHSLARAVFHGKRGELRQRYREGQEDQLGALGLVVNIIVLWNTLYMTAAVERLRQHGYPVLEEDVARLSPLIHEHINMLGRYSFAVPEEVTRGELRPLRNPDDDQ

>Tn5563

MPVGFLTQEQRDGFGRYVDSPSREELERYFHLSDEDREAIQVLRGNHNRLGYAVLLTTVRFVGVLPDKPAAVPVEVLQVLCRQLAIPDPDCLQRYSDHRRWIHATDIQNRFGYRHFTDPGIGFRLSRWLYALCWTGTDRPGVLFERATSWLFTQKVLLPGVSQLERFIAQLRSRVEERLWFTLGRSVTEEQRLQLQDLLTVAEGNRSSRLDQLRSGPVMVSGPALIRALRRLDDVRGIGITLPAAAHIPPSRIAALARFANTAKVTAINRLPASRRMATLVAFALCLEATAHDDALEVLEALLRDLFSNAEKADKKARMRSLKDLDRSAATLAAACKVVLDSSISDDNVRARLFNDLPRTTLEKALEEVNALIRPVDDVYFLALEARYRSVRRFLPDLLKHIRFGFSPAGKGVAASLEWLQLNLPRRKPEDDAPQEIVAKAWQKHITREDGSLDMGAYVFCTLDALRTALRRRDVFVSPSWRYADPRLGLLDGAEWLAARPIICRSLGLTIDAKTTLDALSVELDATWLAVAARLPDNPAIQLSENTEGKTELSLGALDKLDEPCSLLQLRAAVSDLMPRVDLPEILLEIAARTGFSEAFTHVSERNARADNLVTSLCAVLLGGACNTGLEPLIRTDNPALRRDRLSWVSQNYIRDDTLSAANAILVGAQSQLELAQVWGGGEVASADGMRFVVPVRTVHAGPNPKYFGTGRGVTWYNLISDQFSGLNAITVPGTLRDSLVLLAVVLEQQTELQPTQIMTDTGAYSDVVFGLFRLLGYHFSPRLADVGGTRFWRTRPDADYGKLNGLARQSVKLDLIAEHWDDLLRLAGSLKLGRVPATGIMRTLQTGDRPTRLAQALAEFGRIEKTLHTLTYIDDESKRRATLTQLNRGEGRHSLARAVFHGKRGELRQRYREGQEDQLGALGLVVNIIVLWNTLYMTAAVERLKQHGYPVLEEDLARLSPLIYEHINMLGRYSFAVPEEVARGELRPLRNPDDDL

>Tn1412

MPVGFLTQEQRDGFGRYVDSPSREELERYFHLSDEDREAIQVLRGNHNRLGYAVLLTTVRFVGVLPDKPAAVPVEVLQVLCRQLAIPDPDCLQRYSDHRRWIHATDIQNRFGYRHFTDPGIGFRLSRWLYALCWTGTDRPGVLFERATSWLFTQKVLLPGVSQLERFIAQLRSRVEERLWFTLGRSVTEEQRLQLQDLLTVAEGNRSSRLDQLRSGPVMVSGPALIRALRRLDDVRGIGITLPAAAHIPPSRIAALARFANTAKVTAINRLPASRRMATLVAFALCLEATAHDDALEVLEALLRDLFSNAEKADKKARMRSLKDLDRSAATLAAACKVVLDSSISDDNVRARLFNDLPRTTLEKALEEVNALIRPVDDVYFLALEARYRSVRRFLPDLLKHIRFGFSPAGKGVAASLEWLQLNLPRRKPEDDAPQEIVAKAWQKHITREDGSLDMGAYVFCTLDALRTALRRRDVFVSPSWRYADPRLGLLDGAEWLAARPIICRSLGLTIDAKTTLDALSVELDATWLAVAARLPDNPAIQLSENTEGKTELSLGALDKLDEPCSLLQLRAAVSDLMPRVDLPEILLEIAARTGFSEAFTHVSERNARADNLVTSLCAVLLGGACNTGLEPLIRTDNPALRRDRLSWVSQNYIRDDTLSAANAILVGAQSQLELAQVWGGGEVASADGMRFVVPVRTVHAGPNPKYFGTGRGVTWYNLISDQFSGLNAITVPGTLRDSLVLLAVVLEQQTELQPTQIMTDTGAYSDVVFGLFRLLGYHFSPRLADVGGTRFWRTRPDADYGKLNGLARQSVKLDLIAEHWDDLLRLAGSLKLGRVPATGIMRTLQTGDRPTRLAQALAEFGRIEKTLHTLTYIDDESKRRATLTQLNRGEGRHSLARAVFHGKRGELRQRYREGQEDQLGALGLVVNIIVLWNTLYMTAAVERLKQHGYPVLEEDLARLSPLIYEHINMLGRYSFAVPEEVARGELRPLRNPDDDL

>Tn5044

MPVGFLTQEQRDAFGRYVDAPSREELERYFHLSDEDREAIQVLRGNHNRLGYAVMLTTVRFVGVLPDKPAAVPVEVRQVLCRQLAIADPDCLQRYSDHRRWIHAADIQERYGYRHFTDPGVGFRLSRWLYALCWTGTDRPGVLFERATSWLFTQKVLLPGVSQLERFIAQLRSRVEERLWYTLGRSVTEEQRQHLQDLLLVAEGNRSSRLDQLRSGPVMISGPALVRALRRLDDVRGLGITLPAAAHIPPSRIAALARFANTAKVTAINRLPASRRLATLVAFAVCLEASAHDDALEVLEALLRDLFNNAEKADKKARLRSLKDLDRSAATLATACKVVLDASISDDNVRARLFNDLPRATLEKALEEVNALIRPADDVYFLALAARYRSVRRFLPNLLSHIRFGFSPAGKGVAASLDWLQLNLPRRKPEDDAPQEIVAKAWQNHITREDGSLDMGAYVFCTLDALRTALRRRDVFVSPSWRYADPRIGLLGGAEWLAARPIICRSLGLTIDAGTTLDALSAELDATWQTVAARLPDNPAIQLSENTEGKTELSLGALDKLDEPSSLLQLRAAVADLMPRVDLPEILLEIAARTGFAEAFTHVSERNARADNLVTSLCAVLLGGACNTGLEPLIRADNLALRRDRLSWVSQNYIRDDTLSAANAILVGAQSQLELAQVWGGGEVASADGMRFVVPVRTVHAGPNPKYFGTGRGVTWYNLISDQFSGLNAITVPGTLRDSLVLLAVVLEQQTELQPTQIMTDTGAYSDVVFGLFRLLGYHFSPRLADVGGTRFWRTRPDADYGKLNGLARQSVKLDLIAEHWDDLLRLAGSLKLGRVPATGIMRTLQTGDRPTRLAQALAEFGRIEKTLHTLTYIDNESKRRATLTQLNRGEGRHSLARAVFHGKRGELRQRYREGQEDQLGALGLVVNIIVLWNTLYMTAAVERLRQHGYPVLEEDLARLSPLIYEHINMLGRYSFAVPDEVARGELRPLRNPEDDL

>Tn6856

MPVSFLSTTQRERYGRYPETLSSEELARYFHLDDDDREWIATKRRDSHRLGYALQLTTARFLGTFLEDPAAVPGAVLHTLSSQLGIADPDCVLAYRESEQRWRHTTEIRARYGYREFADGGVQFRLGRWLCALCWTGTDRPSALFDYANGWLVGHKVLLPGVTVLERFIAEVRSRMESRLWRLLVRGVTAAQRQRLDDLLKPAEGSRQSWLDRLRKGPVRVSAPALVLALLRIETVRGLGIRLPGTHVPPSRIAALARFASTVKVSAVARLPEARRIATLVAFVHCLEASAQDDALDVLDLLLRELFTKAEKEDRKVRQRSLKDLDRAASTLAEACRMLLDPALPDGELRERVYAAIGRDELAQALNEVRGLVRPPNDVFYTELEARKATVSRFLPTLLRVIRFDANPAAQPLAQALQWLHEKPDHDPPTAIVGKAWQRHVVQDDGRINATAYSFCALDKLRSAIRRRDVFISPSWRYADPRAGLLAGAEWEAARPIVCRSLGLTAQPEATLSALTRELDETYRRVAARLPENDAVRFETVGDKTELVLSPLEALEEPASLIALRNEIKARMPRVDLPEILLEVAARTGCMEAFTHLTERTARAADLTTSLCAVLMAEACNTGPEPLVRQDSPALRRDRLMWVDQNYVRDDTLIACNAVLVAAQNRIALARAWGGGDVASADGMRFVVPVRTIHAAPNPKYFNRGRGVTWYNLLSDQCTGLNAITVPGTLRDSLVLLAVVLEQQTELQPTQIMTDTGAYSDVVFGLFRLSGYRFCPRLADVGGTRFWRVDAEADYGDLNTLARQRVNLDRITPHWDDVLRLVGSLKLGMVPAMGIMRTLQVDERPTSLAQAIAEIGRIDKTIHTLNFIDDEARRRATLLQLNLGEGRHSLAREVFHGKRGELFQRYREGQEDQLSALGLVVNMIVLWNTLYMDAVLAQLRSEGYRVKPEDEARLSPFGHEHINMLGRYSFSVPEAVARGELRPLSRKDDV

>Tn6859

MPVSFLSTTQRERYGRYPDTLSSEELARYFHLDDDDREWIATKRRDSSRLGYALQLTTARFLGTFLEDPTAVPSPVLHTLSSQLGIADPSDCVIDYRTTRQRWQHTSEIRTRYGYREFTGTGVQFRLGRWLCALCWTGTDRPSALFDYANGWLVGHKVLLPGVTLLERFIAEIRSRMESRLWRLLVHGVTPEQRQRLDDLLKLVEGSRQSWLDRLRKGPVRVSAPALVAALLRIETVRGLGIKLPGTHVPPSRIAALARFASTAKVSAVARLPEVRRIATLVAFVHCLEASAQDDAIDVLDLLLRELFTKAEKEDRKVRQRSLKDLDRAASTLAEACRMLLDPALPDGELRERVYAAIGHDELAQALNEVRGLVRPPNDVFYTELEARKATVSRFLPALLRVIRFDANPAAQPLAQALQWLHEKPDHDPPTAIVGKAWQRHVVQDDGRINATAYSFCALDKLRSAIRRRDVFISPSWRYADPRAGLLAGAEWEASRPIVCRSLSLSAQPEATLSELTRELDETYRRVAARLPQNDAVRFENVGDKTELVLSPLEALEEPPSLIALRNEIKARMPRVDLPEILLEVAGRTGCMEAFTHLTERTARAADLTTSLCAVLMAEACNTGPEPLVRPDTPALKRDRLMWVDQNYVRDDTLTACNAVLVAAQSRIALARTWGGGDVASADGMRFVVPVRTIHAGPNPKYFNRGRGVTWYNLLSDQRTGLNAITVPGTLRDSLILLAVVLEQQTELQPTQIMTDTGAYSDLVFGLFRLSNYRFCPRLADVGGTRFWRVDPDADYGDLNALARQRVNLDRITPHWDDVLRLVGSLKLGLVPAMGIMRTLQVDERPTSLAQAIAEIGRIDKTIHTLNFIDDEARRRATLLQLNLGEGRHSLAREVFHGKRGELFQRYREGQEDQLSALGLVVNMIVLWNTLYMDAVLTQLRSEGYPVKPEDEARLSPFGHEHINMLGRYSFSVPEAVARGELRPLTKPNDP

>Tn4401b

MSKKNKLLSVLSDAEQEALYGLPEFDDAQQLEYLAVTETELALANSRPSLHAKVYCLLQIGYFKAKHAFFSFDWDEVEDDCAFVLSRYFHGEVFEPKAITKHERYTQREQIAKLFGYWPWSAAFLPQLEQQAARTVRRDVTPGFVAAELIVWLNEHKIIRPGYTTLQELVSETLSAERRRLGNLLEQALDESAKAALSQLLVRDDTLSQLAALKQDAKNFGWRQMVREREKRATLEPLHAIAKTLLPKLDVSQQNLLYYASLANFYTVHDLRNLKADQTQLYLLCYAWVRYRQLSDNLVDAMAYHMKQLEDESSAGAKQSFADEQVRRQQETPRVGRLLSLYVDDSVADPTPFGEVRQRAYKIMPRDTLQTTAQRMSVKPASKLALQWQAVDGLADRMRRHLRPLYVALDLSGSNPDSPWLAALAWAKGVFAKQQRLSQRPLDEWPAATLPKRLRPYLLTFDADGKPTGLHADRYEFWLYRQIRKRLQSGELYLDDSLQHRHFSDELVEMDRKIDVLAKMEIPFLQQPVHAQLDALTAELRTQWLAFNRELKQGKLTHLEYNKDTQKLTWRKPKSENEKAREKAFYEKLPFCDVADVFRFVNDECKFLSAFTPMQPRYAKKVADADSLMAVIIAQAMNHGNHVMARTSDIPYHVLDSGYQQYLRQATLHAANDCISNAIATLPIFPYYSFDLETLYGAVDGQKFSVERPTVKARYSRKYFGRGKGVVAYTLLCNHIPLNGYLIGAHDYEAHHVFDIWYRNTSDIMPTAITGDMHSVNKANFAILHWFGRRFEPRFTDLNAQLKELYCADDPAQYQACLIRPVGKIDCDLIHREKPNIDRIVATLGLKEMTQGTLIRKLCTYTTTNPTRRAIFEFDKLIRSIYTLRYLRDPQLERNVHRSQNRLESYHQLRSAIAQVGGKKELTGRTDIEIEISNQCARLIANTIIFYNSAILSRLVTKYEAAGNSKALALITKISPAAWRHILLNGHYTFQSSGKTIDLDAIVAGLELE

>Tn4401a

MSKKNKLLSVLSDAEQEALYGLPEFDDAQQLEYLAVTETELALANSRPSLHAKVYCLLQIGYFKAKHAFFSFDWDEVEDDCAFVLSRYFHGEVFEPKAITKHERYTQREQIAKLFGYWPWSAAFLPQLEQQAARTVRRDVTPGFVAAELIVWLNEHKIIRPGYTTLQELVSETLSAERRRLGNLLEQALDESAKAALSQLLVRDDTLSQLAALKQDAKNFGWRQMVREREKRATLEPLHAIAKTLLPKLDVSQQNLLYYASLANFYTVHDLRNLKADQTQLYLLCYAWVRYRQLSDNLVDAMAYHMKQLEDESSAGAKQSFADEQVRRQQETPRVGRLLSLYVDDSVADPTPFGEVRQRAYKIMPRDTLQTTAQRMSVKPASKLALQWQAVDGLADRMRRHLRPLYVALDLSGSNPDSPWLAALAWAKGVFAKQQRLSQRPLDEWPAATLPKRLRPYLLTFDADGKPTGLHADRYEFWLYRQIRKRLQSGELYLDDSLQHRHFSDELVEMDRKIDVLAKMEIPFLQQPVHAQLDALTAELRTQWLAFNRELKQGKLTHLEYNKDTQKLTWRKPKSENEKAREKAFYEKLPFCDVADVFRFVNDECKFLSAFTPMQPRYAKKVADADSLMAVIIAQAMNHGNHVMARTSDIPYHVLDSGYQQYLRQATLHAANDCISNAIATLPIFPYYSFDLETLYGAVDGQKFSVERPTVKARYSRKYFGRGKGVVAYTLLCNHIPLNGYLIGAHDYEAHHVFDIWYRNTSDIMPTAITGDMHSVNKANFAILHWFGRRFEPRFTDLNAQLKELYCADDPAQYQACLIRPVGKIDCDLIHREKPNIDRIVATLGLKEMTQGTLIRKLCTYTTTNPTRRAIFEFDKLIRSIYTLRYLRDPQLERNVHRSQNRLESYHQLRSAIAQVGGKKELTGRTDIEIEISNQCARLIANTIIFYNSAILSRLVTKYEAAGNSKALALITKISPAAWRHILLNGHYTFQSSGKTIDLDAIVAGLELE

>Tn4401c

MSKKNKLLSVLSDAEQEALYGLPEFDDAQQLEYLAVTETELALANSRPSLHAKVYCLLQIGYFKAKHAFFSFDWDEVEDDCAFVLSRYFHGEVFEPKAITKHERYTQREQIAKLFGYWPWSAAFLPQLEQQAARTVRRDVTPGFVAAELIVWLNEHKIIRPGYTTLQELVSETLSAERRRLGNLLEQALDESAKAALSQLLVRDDTLSQLAALKQDAKNFGWRQMVREREKRATLEPLHAIAKTLLPKLDVSQQNLLYYASLANFYTVHDLRNLKADQTQLYLLCYAWVRYRQLSDNLVDAMAYHMKQLEDESSAGAKQSFADEQVRRQQETPRVGRLLSLYVDDSVADPTPFGEVRQRAYKIMPRDTLQTTAQRMSVKPASKLALQWQAVDGLADRMRRHLRPLYVALDLSGSNPDSPWLAALAWAKGVFAKQQRLSQRPLDEWPAATLPKRLRPYLLTFDADGKPTGLHADRYEFWLYRQIRKRLQSGELYLDDSLQHRHFSDELVEMDRKIDVLAKMEIPFLQQPVHAQLDALTAELRTQWLAFNRELKQGKLTHLEYNKDTQKLTWRKPKSENEKAREKAFYEKLPFCDVADVFRFVNDECKFLSAFTPMQPRYAKKVADADSLMAVIIAQAMNHGNHVMARTSDIPYHVLDSGYQQYLRQATLHAANDCISNAIATLPIFPYYSFDLETLYGAVDGQKFSVERPTVKARYSRKYFGRGKGVVAYTLLCNHIPLNGYLIGAHDYEAHHVFDIWYRNTSDIMPTAITGDMHSVNKANFAILHWFGRRFEPRFTDLNAQLKELYCADDPAQYQACLIRPVGKIDCDLIHREKPNIDRIVATLGLKEMTQGTLIRKLCTYTTTNPTRRAIFEFDKLIRSIYTLRYLRDPQLERNVHRSQNRLESYHQLRSAIAQVGGKKELTGRTDIEIEISNQCARLIANTIIFYNSAILSRLVTKYEAAGNSKALALITKISPAAWRHILLNGHYTFQSSGKTIDLDAIVAGLELE

>Tn4662a

MSNKNKLLTVFSDAEQEALYGLPDFDDAQRLEYLALTESELAFASSRPSLQAQVYCVLQIGYFKAKHAFFRFDWHEVEDDCAFVLSRYFHGEAFERKAITKHEHYSQRGQIAELFGYRSWAASFLPQLAQQAEQIVRRDVMPGFVAAELIVWLSEHKIIRPGHTTLQELVSEALSTERRRLGGLLAEVLDESAKAALGQLLVRDDTLSQLAALKQDAKDFGWRQMAGEREKRATLKSLHGIAKALLPKLGISQQNLLYYASLANFYTVHDLRHLKAEQTRLYLLCYAWVRYRQLTDNLVDAMAFHMKKLEDESRTGAKQSFVAEQLRRHQETPQVGRLLSLYVDDSVADPTPFGEVRQRAYKIMSRELLQNTAQRMSVKPLNKLALHWQAVDGLAERIRRHLRPLYVALDFAGTAPDNPWLAALTWAKSVFAKQQRLSQRPLDECPAATLPKRLRPYLLMFDAEGTPTGLHADRYEFWLYRQVRKRFQAGELYIDDSLQHRHLSDELVSMDEKAAVLAQMDIPFLRQPVSAQLDALAAELRAQWVAFNRELKQGKLTHLEYDKDTQRLTWRKPKGENQKAREQALYEQLPYCDVADVFRFVNGQCQFLSALTPLQPRYAKKVADADSLMAVIIAQAMNHGNQVMARTSDIPYHVLESTYQQYLRQATLLVANDCISNAIAALPIFPHYSFDLDSLYGAVDGQKFGVERPTVKARYSRKYFGRGKGVVAYTLLCNHVPLNGYLIGAHEYEAHHVFDIWYRNTSDIVPSAITGDMHSINKANFAILHWFGLRFEPRFTDLDDQLQELYCADDLALYEKCLIRPAGQIDRQLIVGEKANIDRIVATLGLKEMTQGTLIRKLCTYTAPNPTRRAIFEFDKLIRSIYTLRYLRDPQLERNVHRSQNRIESYHQLRSTIAQVGGKKELTGRTDIEIEISNQCARLIGNAIIFYNSAILSLLLTKYEAAGNAKALALITQMSPAAWRHILLNGHYTFQTDGKFIDLDALVAGLELG

>Tn5501

MSNKNKLLTVFSDAEQEALYGLPDFDDAQRLEYLALTESELVRQQRPSLQAQVYCVLQIGYFKAKHAFFRFDWHEVEDDCAFVLSRYFHGERFERKAITKHEHYSQRGQIAELFGYRSWAASFLPQLAQQAEQIVRRDVMPGFVAAELIVWLSEHKIIRPGHTTLQELVSEALSTERRALGGLLAEVLDESAKAALGQLLVRDDTLSQLAALKQDAKDFGWRQMAGEREKRATLKSLHGIAKALLPKLGISQQNLLYYASLANFYTVHDLRHLKAEQTRLYLLCYAWVRYRQLTDNLVDAMAFHMKKLEDESARVRNSPLSPNSCDAIRKRAVGRLLSLYVDDSVADPTPFGEVRQRAYKIMSRELLQNTAHGMSVKPLNKLALHWQAVDGLAERIRRHLRPLYVALDFRRTAPDNPWLAALTWAKSVFAKQQRLSQRPLDECPAATLPKRLRPYLLMFDRKARRQACMPIGYEFWLYRQSGNASRRAELYIDDSLQHRHLSDELVSMDEKAAVLAQMDIPFLRQPVSAQLDALAAELRAQWVAFNRELKQGKLTHLEYDKDTQRLTWRKPRGRTRRLRAEALYEQLPYCDVADVFRFVNGQCQFCPALTPLQPRYAKKVADATRLMAVIIAQAMNHGNQVMARTSDIPYHVLESTYQQYLGQATLHVANDCISNAIAALPIFPHYSFDLDSLYGAVDGQKFGVERPTVKARYSRKYFGRGKGVVAYTLLCNHVPLNGYLIGAHEYEAHHVFDIWYRNTSDIVPSAITGDMHSINKANFAILHWFGLRFEPRFTDLDDQLQELYCADDLALYEKCLIRPAGRSTGKLIVGEKANIDRIVATLGLKEMTQGTLIRKLCTYTAPNPTRAIFEFDKLIRSIYTLRYLHPQLERNVHRSQNRIESYHQLARAIAQVGGKKELTGRTDIEIEISNQCARLIGNAIIFYNSAILSLLLTKYEAAAMPRAALITQMCPAWRDILLNGHYTFKTDGKFIDLDALVAGLELG

>Tn5503

MSNKNKLLTVFSDAEQEALYGLPDFDDAQRLEYLALTESELAFASSRPSLQAQVYCVLQIGYFKAKHAFFRFDWHEVEDDCAFVLSRYFHGEAFERKAITKHEHYSQRGQIAELFGYRSWAASFLPQLAQQAEQIVRRDVMPGFVAAELIVWLSEHKIIRPGHTTLQELVSEALSTERRRLGGLLAEVLDESAKAALGQLLVRDDTLSQLAALKQDAKDFGWRQMAGEREKRATLKSLHGIAKALLPKLGISQQNLLYYASLANFYTVHDLRHLKAEQTRLYLLCYAWVRYRQLTDNLVDAMAFHMKKLEDESRTGAKQSFVAEQLRRHQETPQVGRLLSLYVDDSVADPTPFGEVRQRAYKIMSRELLQNTAQRMSVKPLNKLALHWQAVDGLAERIRRHLRPLYVALDFAGTAPDNPWLAALTWAKSVFAKQQRLSQRPLDECPAATLPKRLRPYLLMFDAEGTPTGLHADRYEFWLYRQVRKRFQAGELYIDDSLQHRHLSDELVSMDEKAAVLAQMDIPFLRQPVSAQLDALAAELRAQWVAFNRELKQGKLTHLEYDKDTQRLTWRKPKGENQKAREQALYEQLPYCDVADVFRFVNGQCQFLSALTPLQPRYAKKVADADSLMAVIIAQAMNHGNQVMARTSDIPYHVLESTYQQYLRQATLHVANDCISNAIAALPIFPHYSFDLDSLYGAVDGQKFGVERPTVKARYSRKYFGRGKGVVAYTLLCNHVPLNGYLIGAHEYEAHHVFDIWYRNTSDIVPSAITGDMHSINKANFAILHWFGLRFEPRFTDLDDQLQELYCADDLALYEKCLIRPAGQIDRQLIVGEKANIDRIVATLGLKEMTQGTLIRKLCTYTAPNPTRRAIFEFDKLIRSIYTLRYLRDPQLERNVHRSQNRIESYHQLRSTIAQVGGKKELTGRTDIEIEISNQCARLIGNAIIFYNSAILSLLLTKYEAAGNAKALALITQMSPAAWRHILLNGHYTFQTDGKFIDLDALVAGLELG

>Tn4651

MASVERTAYPILPSQLPAKELHRSYSLSDSEIEWVNNTAKSPALSIGLAIQLKVFQQLHYFVPFEELPQELISHVRQCLRYGARIAPRYSNPRTLYRHQAAVRQYLQVTPFYSSDGLAVTEQIARDCAVVLEQRVDLINAMLDELIQRGYELPAYSTLNNLAETALASAQEVTFNLVVTRAPIEVIYKLKELLDTDFGRRQSDFNALKQAPKKPSRKHLEVLIDHLAWLESFGDLEAIFEGIVDAKIRHFAAQAAAADVSELKDCSLPKRHTLMLALIYRMRVRTRDHLAEMFIRRISTIHKRAKEELEQIQARQRQKLEQLAATLDGVVQILVQEPDDQEAGSLIREYLSPDGNLDRLRETCAEVQATGGNNYLPLIWKHFRSHRSLLFRLSHLLQLEPTTQDRSLTQALQLIQDSENLHREWIDEHVDLSFASERWVKVVRRPSSEGPPTNRRYLEVCVFSYLASELRSGDMCVQGSVSFADYRKQLLPWEECLQRLPAYCEKMGLPGTAKEFVASLKTQLEETAQQLDEKFPSCRGDVSINEAGEPVLRRVAARDIPPSAISLQTALMQRMPARHVLDIMANIEHWIQFTRHFGPMSGNEPKLKEPAERYLMTIFAMGCNLGPSQAARHLTGNVTPHMLSYTNRRHLSLEKLDKANRELVELYLQLDLPKLWGDGKAVAADGTQFDFYDDNLLAGYHFRYRKMGAVAYRHVANNYIAVFQHFIPPGIWEAIYVIEGLLKADLSVEADTVYSDTQGQSATVFAFTHLLGINLMPRIRNWRDLVMCRPDRGASYKHINRLFTDTADWNLIETHWQDLMQVALSIQAGKISSPMLVRKLGSYSRRNKLYHAAQALGSVIRTIFLLNWIGSRELRQEVTANTNKIESYNGFSKWLSFGGDVIAENDPDEQQKRLRYNDMVASSVILQNTVDMMRILHKLAREGWQFTDEDVSFLSPYLTSNVKRFGEFNLKLNRPPEPWIKDSVFQQAAGSLRANTASKTGA

>Tn4652

MASVERTAYPILPSQLPAKELHRSYSLSDSEIEWVNNTAKSPALSIGLAIQLKVFQQLHYFVPFEELPQELISHVRQCLRYGARIAPRYSNPRTLYRHQAAVRQYLQVTPFYSSDGLAVTEQIARDCAVVLEQRVDLINAMLDELIQRGYELPAYSTLNNLAETALASAQEVTFNLVVTRAPIEVIYKLKELLDTDFGRRQSDFNALKQAPKKPSRKHLEVLIDHLAWLESFGDLEAIFEGIVDAKIRHFAAQAAAADVSELKDCSLPKRHTLMLALIYRMRVRTRDHLAEMFIRRISTIHKRAKEELEQIQARQRQKLEQLAATLDGVVQILVQEPDDQEAGSLIREYLSPDGNLDRLRETCAEVQATGGNNYLPLIWKHFRSHRSLLFRLSHLLQLEPTTQDRSLTQALQLIQDSENLHREWIDEHVDLSFASERWVKVVRRPSSEGPPTNRRYLEVCVFSYLASELRSGDMCVQGSVSFADYRKQLLPWEECLQRLPAYCEKMGLPGTAKEFVASLKTQLEETAQQLDEKFPSCRGDVSINEAGEPVLRRVAARDIPPSAISLQTALMQRMPARHVLDIMANIEHWIQFTRHFGPMSGNEPKLKEPAERYLMTIFAMGCNLGPSQAARHLTGNVTPHMLSYTNRRHLSLEKLDKANRELVELYLQLDLPKLWGDGKAVAADGTQFDFYDDNLLAGYHFRYRKMGAVAYRHVANNYIAVFQHFIPPGIWEAIYVIEGLLKADLSVEADTVYSDTQGQSATVFAFTHLLGINLMPRIRNWRDLVMCRPDRGASYKHINRLFTDTADWNLIETHWQDLMQVALSIQAGKISSPMLVRKLGSYSRRNKLYHAAQALGSVIRTIFLLNWIGSRELRQEVTANTNKIESYNGFSKWLSFGGDVIAENDPDEQQKRLRYNDMVASSVILQNTVDMMRILHKLAREGWQFTDEDVSFLSPYLTSNVKRFGEFNLKLNRPPEPWIKDSVFQQAAGSLRANTASKTGA

>Tn4661a

MASLERTAYPVLSRSYSRAELQREFSFSEEEVTWVKSRSNAAFRLNLAVLFKTFQVLRYFPEIAEVPEPVVDFIRTQIGLRSKVALSPYKWMQLYRHMSAVREKLGVRPFYGSDGQDIASTHAQLMAPLLEQRADIINAIIDELLRQNYELPAYSTLNDLAEAARAEAQEKIFNLVVARAPIKVIYKLRDLLDTDFGRRQSDLNTLKQAPKKPSRKHLEVLIDHLAWLESFGKLDAIFDGIVDTKIRHFAAQAAASDVSELKDCSLPKRYTLMLALIYRMRVRTRDHLAEMFIRRISTIHKRAKEELEQIQARQRQKLEQLAATLDGVVQILVQEPDDQEAGSLIREYLSPDGNMDRLREVCAEVQATGGNNYLPLIWRHFKSHRSLLFRLSHLLQLEPTTQDRSLIQALQLIQDSENLHREWIDEHVDLSFASDRWVKIVRRPTSEGPPTNRRYLEVCVFSYLASELRSGDLCVQGSESFADYRKQLLPWEECLQRLPAYCEKVGLPTTAKEFVASLKSQLEETAQQLDDKFPSCRGDVSINDAGEPVLRRVMARDIPPSAISLQTALMQRMPARHVLDIMANIEHWIQFTRHFGPMSGNEPKLKEPAERYLMTIFAMGCNLGPSQAARHLAGNVTPHMLSYTNRRHLSLEKLDKANRELVELYLQLDLPKLWGDGKAVAADGTQFDFYDDNLLAGYHFRYRKMGAVAYRHVANNYIAVFQHFIPPGIWEAIYVIEGLLKVSLSVEPDTVYSDTQGQSATVFAFTHLLGINLMPRIRNWRDLVMCRPDRGVSYKHINRLFTDTADWHLIETHWQDLMQIALSIQAGKISSPMLLRKLGSYSRRNKLYLAAQTLGSVIRTIFLLNWIGSRELRQEVTANTNKIESYNGFSKWLSFGGDVIAENDPDEQQKRLRYNDMVASSVILQNTVDMMRILQKLAREGWQFTDEDVSFLSPYLTSNVKRFGEFNLKLNRPPEPWIKDSVFQQAAGSLRVNSTSKAAAEEAI

>Tn4676

MASLERTAYPTLPKAYSKAELQRDFSFSDDEIKWVRSKSKAPFHLNLAVLLKTFQVLRYFPDITDVPNQLVDFIRGELGQRSKVKLAEYKWFQQYRHMNAIRARLGVTAFYGSDAMELAERHAKAMSFVLDQRADIINSVIEELIRQDYELPAYSTLNDLAERIHAESQEAIFNLVVTRTPVEVIHKLKDLLDTDFGRRQSDFNALKQAPKKPSRKHLEVLIDHLAWLESFGDLGAIFEGIVDTKIRHFAAQAAASDVAELKDCLLPKRYTLMLALIYRMRVRTRDHLAEMFIRRISTIHKRAKEELEQIQARQRQKLEQLVATLDGVVQILVQEPDDQEAGSLIREYLSPGGNLDRLRETCAEVQATGGNNYLPLIWKHFKSHRSLLFRLSHLLQLEPTTQDRSLVQALQLIQDSENLHREWIDEHVDLSFASERWVKVVRRPASEGPPTNRRYLEVCVFSYLASELRSGDMCVQGSESFADYRKQLLPWEECLQRLPAYCEKVGLPCTAKEFVASLQTQLEETAQQLDDKFPSCRGDVSINEAGEPVLRRVTARDTPPSAISLQTALMQRMPARHVLDIMANIEHWIQFTRHFGPMSGNEPKLKEPAERYLMTIFAMGCNLGPNQAARHLAGNVTPHMLSYTNRRHLALEKLDKANRELVELYLQLDLPKLWGDGKAVAADGTQFDFYDDNLLAGYHFRYRKMGAVAYRHVANNYIAVFQHFIPPGIWEAIYVIEGLLKADLSVEADTVYSDTQGQSATVFAFTHLLGINLMPRIRNWRDLVMCRPDRGASYKHINRLFTDTADWHSIETHWQDLMQVALSIQAGKISSPMLLRKLGSYSRRNKLYHAAQALGSVIRTIFLLNWIGSRELRQEVTANTNKIESYNGFSKWLSFGGDVIAENDPDEQQKRLRYNDMVASSVILQNTVDMMRILQKLAREGWQFTDEDVSFLSPYLTSNVKRFGEFSLKLNRPPEPWIKDSVFQQAAGSLRVITPRQLDTEKTT

>Tn5041

MASVERTAYPLLPSQLPAKELHRCYSLSDSEIEWVNNTAKSPALSIGLAIQLKVFQQLHYFVPFEELPQELISHVRQCLRYGARIAPRYSNPRTLYRHQAAVRQYLQVTPFYSSDGLAITEEIARDCAVVLEQRVDLINAMLDELIQRGYELPAYSTLNNIAETALASAQEVTFNLIVLRAPIEVIYKLKELLDTDFGRRQSDFNALKQAPKKPSRKHLEVLIDHLAWLESFGDLDAILEGVVDAKIRHFATQAAASDVAELKDCSLPKRYTLMLALIYRMRVRTRDHLAEMFIRRISTIHKRAKEEKEQIQARQRQKLEQLAATLDGVVQILVQEPDDQEAGSLIREFLSPDGNLDRLRETCAEVQATGGNNYLPLIWKHFKSHRSLLFRLSHLLQLEPTTQDRSLIQALQLIQDSENLHREWIDEHVDLSFASERWVKVVRRPASEGPPTNRRYLEVCVFSYLASELRSGDMCVLGSESFADYRKQLLPWEECFHRLPAYCEKVGLPGTAKEFVASLKIQLEETAQHLDEKFPSCRGDVSINEAGEPVLRRVIARDIPPSAISLQTALMQRMPARHVLDIMANIEHWIQFTRHFGPMSGNEPKLKEPAERYLMTIFAMGCNLGPNQAARHLAGNVTPHMLSYTNRRHLSLEKLDKANRELVELYLQLDLPKLWGDGKAVAADGTQFDFYDDNLLAGYHFRYRKMGAVAYRHVANNYIAVFQHFIPPGIWEAIYVIEGLLKVDLSVEPDTVYSDTQGQSATVFAFTHLLGINLMPRIRNWRDLVMCRPDRGVSYKHINRLFTDTADWHLIETHWQDLMQVALSIQAGKISSPMLLRKLGSYSRRNKLYHAAQALGSVIRTIFLLNWIGSRELRQEVTANTNKIESYNGFSKWLSFGGDVIAENDPDEQQKRLRYNDMVASSVILQNTVDMMRILQKLARDGWQFTDDDVSFLSPYLTSNVKRFGEFNLKLKRPPEPWIKDSIFQQAAGSMRAKQMSDSNVEVTN

>Tn6904

MTTLHETAYPRLKPDPTAKELQDIYTPTAAELQCVRNIATGPATRLALLLHLKLFQRLGYFTTLIEVPERIVQHVAQTLGMRRVPADRLAGYDASGAKRGHLAQLRAFLNVCPLDAAGRDWLGTVAETAARTKHIVPDIVNVMLEELVHHRFELPAFSTLERIAIAARERVHDAHYRQIADALSPTMRTLIDNLLLTPPGSHHSDWHTLKREPKRPTNKEVRHYLRHIQRLRILAEQLPPIDVSVPKLKQFRAMARALDAAELAELVPIKRYALAAIFIRSQYRKTLDDAADLFIRLIQNLENTAQQKLIAYQLEHSKRADALIGQLREILQAYQVEGTDTERVGAIAGVLVADIALLTAECDEHMAYAGRNYLPFLLAPYGTLRPLLFNCLEIMGLRAASQDPSMERMIGAVLALRSQRRETIDAASLGVATTDLTWLSSAWRKHVMPKALAAASPGWIHRKYFELAVLAQIKDELKSGDLYIPHGERYDDYREQLVDEATLAQELDAYGEVSGVATDAADFVQGLRTELTTLADAVDARFSDNLHASMLDGRLVLKRLQGAQVTQAIATVDSAITDRLPPTSIVDVLVDTTRWLDLHVHFRPIAGTDARVDDLLRRVITTLFCYGCNLGPTQTARSVKGFSRRQISWLNLKYVTDETLDKAIVQVINMYNKFELPGYWGSGKSASADGTKWNVYEQNLLSEYHIRYGGYGGIGYYHVSDKYIALFSHFIPCGIHEAVYILDGMLANRSDIQPDTVHGDTQAQSFPVFGLAHLLGINLMPRIRNIKDLVFSRPEPGRTYENIQALFGDSIDWTLIETHVHDMLRVAISIKLGKITASTILRRLGTYSRKNKLYWAFRELGKAVRTLFLLRYIDDVEVRKTIHAATNKSEEFNGFVKWAFFGGEGIIAENVQHEQRKIVRYNQLVANLVILHNVEQMTRVLAELRDEGSNISPEVLAGLSPYRTSHINRFGDYTLDLKRQVEPIDFSRRILAATTR

>Tn6894

MTTLHETAYPRLKPDPTAKELQDIYTPTAAELQCVRNIATGPATRLALLLHLKLFQRLGYFTTLIEVPERIVQHVAQTLGMRRVPADRLAGYDASGAKRGHLAQLRAFLNVCPLDAAGRDWLGTVAETAARTKHIVPDIVNVMLEELVHHRFELPAFSTLERIAIAARERVHDAHYRQIADALSPTMRTLIDNLLLTPPGSHHSDWHTLKREPKRPTNKEVRHYLRHIQRLRILAEQLPPIDVSVPKLKQFRAMARALDAAELAELVPIKRYALAAIFIRSQYRKTLDDAADLFIRLIQNLENTAQQKLIAYQLEHSKRADALIGQLREILQAYQVEGTDTERVGAIAGVLVADIALLTAECDEHMAYAGRNYLPFLLAPYGTLRPLLFNCLEIMGLRAASQDPSMERMIGAVLALRSQRRETIDAASLGVATTDLTWLSSAWRKHVMPKALAAASPGWIHRKYFELAVLAQIKDELKSGDLYIPHGERYDDYREQLVDEATLAQELDAYGEVSGVATDAADFVQGLRTELTTLADAVDARFSDNLHASMLDGRLVLKRLQGAQVTQAIATVDSAITDRLPPTSIVDVLVDTTRWLDLHVHFRPIAGTDARVDDLLRRVITTLFCYGCNLGPTQTARSVKGFSRRQISWLNLKYVTDETLDKAIVQVINMYNKFELPGYWGSGKSASADGTKWNVYEQNLLSEYHIRYGGYGGIGYYHVSDKYIALFSHFIPCGIHEAVYILDGMLANRSDIQPDTVHGDTQAQSFPVFGLAHLLGINLMPRIRNIKDLVFSRPEPGRTYENIQALFGDSIDWTLIETHVHDMLRVAISIKLGKITASTILRRLGTYSRKNKLYWAFRELGKAVRTLFLLRYIDDVEVRKTIHAATNKSEEFNGFVKWAFFGGEGIIAENVQHEQRKIVRYNQLVANLVILHNVEQMTRVLAELRDEGSNISPEVLAGLSPYRTSHINRFGDYTLDLKRQVEPIDFSRRILAATTR

>Tn6895

MASLERTAYPVLSRSYSRAELQREFSFSEEEVTWVKSRSNAAFRLNLAVLFKTFQVLRYFPEIAEVPEPVVDFIRTQIGLRSKVALSPYKWMQLYRHMSAVREKLGVRPFYGSDGQDIASTHAQLMAPLLEQRADIINAIIDELLRQNYELPAYSTLNDLAEAARAEAQEKIFNLVVARAPIKVIYKLRDLLDTDFGRRQSDFNTLKQAPKKPSRKHLEVLIDHLAWLESFGKLDAIFDGIVDTKIRHFAAQAAASDVSELKDCSLPKRYTLMLALIYRMRVRTRDHLAEMFIRRISTIHKRAKEELEQIQARQRQKLEQLAATLDGVVQILVQEPDDQEAGSLIREYLSPDGNMDRLREVCAEVQATGGNNYLPLIWRHFKSHRSLLFRLSHLLQLEPTTQDRSLIQALQLIQDSENLHREWIDEHVDLSFASDRWVKIVRRPTSEGPPTNRRYLEVCVFSYLASELRSGDLCVQGSESFADYRKQLLPWEECLQRLPAYCEKVGLPTTAKEFVASLKSQLEETAQQLDDKFPSCRGDVSINDAGEPVLRRVMARDIPPSAISLQTALMQRMPARHVLDIMANIEHWIQFTRHFGPMSGNEPKLKEPAERYLMTIFAMGCNLGPSQAARHLAGNVTPHMLSYTNRRHLSLEKLDKANRELVELYLQLDLPKLWGDGKAVAADGTQFDFYDDNLLAGYHFRYRKMGAVAYRHVANNYIAVFQHFIPPGIWEAIYVIEGLLKVSLSVEPDTVYSDTQGQSATVFAFTHLLGINLMPRIRNWRDLVMCRPDRGVSYKHINRLFTDTADWHLIETHWQDLMQIALSIQAGKISSPMLLRKLGSYSRRNKLYLAAQTLGSVIRTIFLLNWIGSRELRQEVTANTNKIESYNGFSKWLSFGGDVIAENDPDEQQKRLRYNDMVASSVILQNTVDMMRILQKLAREGWQFTDEDVSFLSPYLTSNVKRFGEFNLKLNRPPEPWIKDSVFQQAAGSLRVNSTSKAAAEEAI

>Tn6905

MRQEWSPEDVVACWTLVDGDWDLVANKTGPTRLGFCLMLKFFEMEGRFPEFIEEFPQPAVEYVAGLVKVPATELAKYDLAGANGHRKQIREALHFRPATLDDEERLTAWLAVEVCPVELVEDRQREALLVECRARKIEPPGRTRIEKVLVAARNRWEKVFCARTIERLGDVGVARLLALVAEDNEDGAGLLALLKRDPGAVGLDSLLTEITKLNDVRRLGLPEGLFADCSEKLLAGWRSRAIKMYPSDFRDTAEDARITLLAALCSSRQAEITDALVELLVALVHKINARAERRVERQLTAELKKVRGKEGILFKLADAAIGKPDDVVREALYPVVGEKTLRDLVAEAKANEKVFKAKVRTTLRSSYSSYYRQMLPPLLRTLGFKCNNTAYRPVMDAMALLEKYAEVDGKTRFYDAGDTVPMDGVVRKDWREAVVDDKGKVERIPYELCVLVALRDAIRRREIYVEGALRWRNPEDDLPGDFEAARTVHYAAIRQPQDPQAFITSLKQRMTDGLDRLSAALADGSAGGVKVTTRHGDPWITVPKLEKLDEPTGLQALKDEVVRRWGVLDLLDVLKNADFLSGFTDEFTSVAAYERIDRATLQRRLLLALFALGTNMGIRSIVATGEHGESEAALRHIRRHFITVDNLRAAVTRLVNATFAARDTAWWGQGNACASDSKKFGSWSSNFMTEYHARYGGNGVMIYWHVERKNVCIYSQLKSCSSSEVAAMIEGLLRHCTDAEIESNYVDTHGASVVGFAFTELLNFRLLPRLKNIGSIRLYRPDDDPPGWPALGASLTRAIRWDLIEQQYDQMVKYATALRLGTAEAEQVLRRFTRGGPKHPTYAALEELGRAVRTVFACDYLAAPGLRREIHGGLQVVENWNSANTVLHYGKDGALTGPDKEHAETSMLALHLLQSALVHVNTLLLQQVLAEPAWAKKLSDEDRRGLTALFWSNINPYGTFRLEMDKRLDLAPLLSVPRPRTPADASDQAPAEPS

>Tn6731

MIQGVRILSQDQPFDERDVWSLLADELSLLPGMTDAGRLGFAIQLKFRQTYGHYPESISELPSGIVRVIAEQIGCTSVPFENYPLQGRQAQRHRQNIRRYLGVRLPNKNDIAQLTAWLTEFILPLNPQALHGSELVSDWCQEQKIERPAADHLDRVIRSAVHQFETEQQNIIFTRLSLDSKVAINHLLSAEEPGTDRVTEVTLSRLKADPGRASLENVLSVIAQLKCLDSVALQPGIFQGISPKFIVQFQQRCASESIRELRRHPSAIRYSMVAMFCWRRRQQLTDALIEMLMILIHNLGTRAEKKVDKKQFAAFKKVRGKARLLFRMAEATVDQPDGVIKEVVYPVVSQKMLQNLVDEFKTLGVNTEQEVHESMRSSYGSHYRRMLMPVLDRLEFQSGNALYRPVIDAIQIIKENRASNQYFYAVGDVPVDGIIQKKWRDIVIEQSKSGEERINRINYEICVLRALRKSLRNREIWVTGADRYRDPAEDLPEDFATNRAYYYSLLQAPADATTFITQIKDRMRHWLGTLNNGLPDNPKLRIRVQGKNRIHLTPLDKQSEPPNTAALKQEIGHRWADLELIDILKEVDLREHFSSLFRTSASREVLEPEVLQRRLLLCLFGLGTNVGLKRIASQQPRVNYDELRYVKQRFIQKDALRSAISHIVNGIFRIRQPAIWGNATTSCAADSRKFGAYDQNLMTEWHARYGGRGVMIYWHVDTHSTCIYSQLRRCSSSEVAAMMEGVLRHCTDMEINHQYVDSHGQSEVAFAFSDVLGFDLLPRLKAIARQKLYVCEKEDASLYPHLTPILTRGIDWELIAQQYDEIIKYTAALKVGTAEPEAILRRFTRNNIQHPTYKALAELGKAIKTIFLCRYLHDESLRCEINAGLNVVENWNSANNFIFYGEHGEFTSNRTADQELSMLSLHLLQISLVYINTLLIQNVLSEPTWRQRMTEEDWRGLTPLIYHHVNPYGRIELNMEQRLALAA

>Tn6830

MASLERTAYPTLSKTYSKAELQRDFSFSDDEIKWVRSKSKAPFHLNLAVLLKTFQVLRYFPDITDVPDQLVAFIRGELGQRSKVKFAEYKWFQQYRHMNAIRARLGVTAFYGSDAIEVAERHAKEMSFVLDQRADIINSVIEELIRQDYELPAYSTLNDLAERIHTESQEAIFNLVVTRTPIEVIHKLKELLDTDFGRRQSDFNALKQAPKKPSRKHLEVLIDHLAWLESFGDLEAIFDGIVDAKIRHFAAQAAASDVSELKDCSLPKRYTLMLALIYRMRVRTRDHLAEMFIRRISTIHKRAKEELEQIHARQRQKLEQLAATLDGVVQILVQEPDDQEAGSLIREYLSPDGNLDRLRETCAEVQATGGNNYLPLIWKHFKSHRSLLFRLSHLLQLEPTTQDRSLIQALLLIQDCENLHREWIGEHVDLSFASERWIKVVRRPTSEGPPTNRRYLEVCVFSYLASELRSGDMCVLGSESFADYRKQLLPWEECLQQLPAYCEKVGLPGTAKEFVASLKTQLEETAQQLDEKFPSCRGDVSINEAGEPVLRRVIARDIPPSAISLQTALMQRMPARHVLDIMANIEHWIQFTRHFGPMSGNEPKLKEPAERYLMTIFAMGCNLGPNQAARHLAGNVTPHMLSYTNRRHLSLEKLDKANRELVELYLQLDLPKLWGDGKAVAADGTQFDFYDDNLLAGYHFRYRKMGAVAYRHVANNYIAVFQHFIPPGIWEAIYVIEGLLKADLSVEADTVYSDTQGQSATVFAFTHLLGINLMPRIRNWRDLVMCRPDRGASYKHINRLFTDTADWNLIETHWQDLMQVALSIQAGKISSPMLLRKLGSYSRRNKLYHAAQALGSVIRTIFLLNWIGSRELRQEVTANTNKIESYNGFSKWLSFGGDVIAENDPDEQQKRLRYNDMVASSVILQNTVDMMRILQKLAREGWQFTDEDVSFLSPYLTSNVKRFGEFNLKLNRPPEPWIKDSVFQQAAGSLRVNTASRADAEEAT

>Tn4430

MGVKQLLSEAQRNELMDLSRLTEWDLVTFRTFSKHDLHLILKHRRGYNRLGFALRLVLIRYPGWSLTEYKDIPQYVVAYVTSRLRIPPEEFLVYAKRGNTLWEHLGEIRTEYGYQNFSSEYKETLLQFLVQQAMDNNNTLYLIEITISTLRKTKVILPAMYVIEDIVWEAKQQADQKVYSILHDGLVQEQKDQLDALLLPTINGKSPLAWLKDVPAQPSPESFLKVIDRLQFVQKIGLTIDTTKINTNRLRQLARLGSKYEPYAFRRFNEVKRYSMLVSFLLEITQDLIDYAIEIHDRLMMNLQTKGKKEQDEIQQANGKKLNEKILQFITVCGTLIEAKETGKDAFAALDEVMSWNEMVESVEEAKQLSRPLNYDYLDLLNTRYSYVRRYAPTLLRSLHFRATKSGEPVLQALDTIHELNETGKRKVPHGAPLHFVSNRWQKHVYDDDGNINRHYYELAALTELRNHIRSGDIFVSGSRHHKAFDDYLIPYDEWNEVSNIPNGLTAPLKAEDYITDRINRLNEHLEWLSKNSEKLEGVDISQGKLHVERLDRGTPEEAKAFSKLLHSMLPRIKLTDLLIEVASWTGFHDQFIHASTNQSPDQEEQNIVLATLMAMGTNIGLTKMAEATPGISYRQMANASQWRMYDDAMVRAQSILVNFQKEQKLSSYWGDGTTSSSDGMRLSIAVRSLHADSNPHYGTGKGGTIYRFVSDQLSAYHVKVITTNARDALHVLDGLLHHETDLKIEEHYTDTAGYTDQVFALTHLLGFRFAPRIRDLADTKLFSIPGGEEYENVQALLKGKINVKLIKENYEDIRRLAYSVQTGKVSSALIMGKLGSYARQNKLATALGEMGRIEKTLFTLDYISNKAVRRRVQKGLNKGEAINALARTIFFGQRGEFRERALQDQLQRASALNIIINAISVWNTVYMEKAVEELKARGEFREDLMPYAWPLGWEHINFLGEYKFEGLHDTGQMNLRPLRIKEPFYS

>Tn551

MAMKRILTTSQREQLLSVDHLSEEDFKAYFSFSDYDLEVINQHRGKVNKLGFAIQLCLARYPGCSLSNWPIKSTRLTSYVSRQLHLDAIDLNSYDHRNTRANHFNEILEVFNYHRFGSANTQKQLIEYLIELALENDDSIYLMKKTIDFLTRKRIIFPSIATLEDIISRCRDKAENNLFSILLCSLTDIQIEKLESLFQIYEETKITKLAWLKDIPGKANPESFMSICKKVEVIASMGLGTINVSHINRNRFLQLARLGENYDAYDFSRFELEKRYSLLIAFLVNHHQYLIDQLIEINDRILASIKRKGTRDSQEQLKEKGKLATKKLEHYASLIDALHFAKDNDSNPFDEIERIMPWEDLVQDGEEAKKITGNKNHGYLEMVRNKANYLRRYTPMLLRTLSFKATPAANPVLMALTQLTDLHNSGKRKIPADTSTDFVSKKWKSLVRPEEGKIDRSYYELVAFTELKNNIRSGDISVEGSMIHRNIDDYLVDLSACIDSETIPDTFEDYLKDREIILDLQLQFYSTVDKRISRANLKKLEKVTPSEAEIYRKKLYSIIPKIRLSDLLIEVDSWTNFSQEFSHDSTGKPPSEQERKIIFAALLGLGMNIGLEKMAQSTPGISYSQLANAKQWRFYKEALTRAQSVLVNYQLKLPVADFWGEGKTTASDGMRVPVGVSALKSDVNPHYKSMEKGATMIRSINDRHTTHHIEVASTNTREATHTLDGLLYHETDLDIEEHFTDTNGYSDQVFGMTALLGFDFEPRIRNIKKSQLFSIKSPSYYPNLSEDISGKINVKIIEENYDEIKRIAYSIQTAKVSSSLLLGKLGSYARKNRVALALRELGRIEKSIFMIDYITDSELRRRITHGLNKTEAINALARELFFGRRGKFMERDIRRQLQSASALNVLINAISIWNAVYLQAAYNYLVKIDPEVTKYMKHVSPINWEHITFLGEYKFDLLSIPKHLRELNIKNK

>Tn1546

MKIARGRELLTPEQRQAFMQIPEDEWILGTYFTFSKRDLEIVNKRRREENRLGFAVQLAVLRYPGWPYTHIKSIPDSVIQYISKQIGVSPSSLDHYPQRENTLWDHLKEIRSEYDFVTFTLSEYRMTFKYLHQLALENGDAIHLLHECIDFLRKNKIILPAITTLERMVWEARAMAEKKLFNTVSKSLTNEQKEKLEGIITSQHPSESNKTILGWLKEPPGHPSPETFLKIIERLEYIRGMDLETVQISHLHRNRLLQLSRLGSRYEPYAFRDFQENKRYSILTIYLLQLTQELTDKAFEIHDRQILSLLSKGRKAQEEIQKQNGKKLNEKVIHFTNIGQALIKAREEKLDVFKVLESVIEWNTFVSSVEEAQELARPADYDYLDLLQKRFYSLRKYTPTLLRVLEFHSTKANEPLLQAVEIIRGMNESGKRKVPDDSPVDFISKRWKRHLYEDDGTTINRHYYEMAVLTELREHVRAGDVSIVGSRQYRDFEEYLFSEDTWNQSKGNTRLSVSLSFEDYITERTSSFNERLKWLAANSNKLDGVSLEKGKLSLARLEKDVPEEAKKFSASLYQMLPRIKLTDLLMDVAHITGFHEQFTHASNNRKPDKEETIIIMAALLGMGMNIGLSKMAEATPGLTYKQLANVSQWRMYEDAMNKAQAILVNFHHKLQLPFYWGDGTTSSSDGMRMQLGVSSLHADANPHYGTGKGATIYRFTSDQFSSYYTKIIHTNSRDAIHVLDGLLHHETDLNIEEHYTDTAGYTDQIFGLTHLLGFKFAPRIRDLSDSKLFTIDKASEYPKLEAILRGQINTKVIKENYEDVLRLAHSIREGTVSASLIMGKLGSYSRQNSLATALREMGRIEKTIFILNYISDESLRRKIQRGLNKGEAMNGLARAIFFGKQGELRERTIQHQLQRASALNIIINAISIWNTLHLTTAVEYKKRTGSFNEDLLHHMSPLGWEHINLLGEYHFNSEKVVSLNSLRPLKLS

>Tn917

MAMKRILTTSQREQLLSVDHLSEEDFKAYFSFSDYDLEVINQHRGKVNKLGFAIQLCLARYPGCSLSNWPIKSTRLTSYVSRQLHLDAIDLNSYDHRNTRANHFNEILEVFNYHRFGSANTQKQLIEYLIELALENDDSIYLMKKTIDFLTRKRIIFPSIATLEDIISRCRDKAENNLFSILLCSLTDIQIEKLESLFQIYEETKITKLAWLKDIPGKANPESFMSICKKVEVIASMGLGTINVSHINRNRFLQLARLGENYDAYDFSRFELEKRYSLLIAFLVNHHQYLIDQLIEINDRILASIKRKGTRDSQEQLKEKGKLATKKLEHYASLIDALHFAKDNDSNPFDEIERIMPWEDLVQDGEEAKKITGNKNHGYLEMVRNKANYLRRYTPMLLRTLSFKATPAANPVLMALTQLTDLHNSGKRKIPADTSTDFVSKKWKSLVRPEEGKIDRSYYELVAFTELKNNIRSGDISVEGSMIHRNIDDYLVDLSACIDSETIPDTFEDYLKDREIILDLQLQFYSTVDKRISRANLKKLEKVTPSEAEIYRKKLYSIIPKIRLSDLLIEVDSWTNFSQEFSHDSTGKPPSEQERKIIFAALLGLGMNIGLEKMAQSTPGISYSQLANAKQWRFYKEALTRAQSVLVNYQLKLPVADFWGEGKTTASDGMRVPVGVSALKSDVNPHYKSMEKGATMIRSINDRHTTHHIEVASTNTREATHTLDGLLYHETDLDIEEHFTDTNGYSDQVFGMTALLGFDFEPRIRNIKKSQLFSIKSPSYYPNLSEDISGKINVKIIEENYDEIKRIAYSIQTGKVSSSLLLGKLGSYARKNRVALALRELGRIEKSIFMIDYITDSELRRRITHGLNKTEAINALARELFFGRRGKFMERDIRRQLQSASALNVLINAISIWNAVYLQAAYNYLVKIDPEVTKYMKHVSPINWEHITFLGEYKFDLLSIPKHLRELNIKNK

>Tn5422

MALKKILTAAQREQLLSVDHLSEEDFQAYFSFSDSDLDIINQHRGDINKLGFAIQLCLARYPGCSLSNWSIQSDRLISYVRRQLHLDSIELALYAHRNTRANHFNEILETFRYQRFGSVDTRNQLIAFLIKLALENDDSTYLMKKTLGFLTQNRIIFPSIATLEDIISHCRDKAESTLFSILLDSLTETQIEKLDELFLVYKETKMTKLAWLKDIPGKANPESFMTICKKVETITVLELGTINVSHIHRNRFLQLARLGDNYDAYDFSRFEFEKKYSLLIAFLVDHHQYLIDLLIEINDRILAGIKRKGMHDSQELLKEKGKLATEKLEHYASLIDALHFAKDNDSNPFDEIERVIPWHDLIQDGEDAKRITGKKNHGYLEMVRNKATYLRRYRGMLLKILSFKATSSAQPILTALTQINELKNDGKRKIPANTSIEFVSKKWERLVQPEEGKIDRSFYELVAFTELKNNIRSGNISVEGSLAHRNIDDYLISSDACVNSLTIPDTFDDYLTSRGAILDSQLQYYSNSGKSSAKMVLKKLEKVTPDEAEEYRKKLYSMIPKIRLSDLLIEVDSWTQFSQEFIHDSTGNPPNEREKKIVFATLLGLGMNIGLEKMAQSTPGITYPQLANTKQWRFYKEALTCAQSILVNFQLGIPIADFWGEGKTSASDGMRVPVGVSAIKADVNPHYKSLEKGATMIRSINDRNTSHHVEVVSTNTREATHTLDGLLYHETDLDIEEHFTDTNGYTDQVFGMTALLGFHFEPRIRNIKKSQLFSIKPTSEYPDLLGLISGRINIKTIDESYEEIKRIAYSIQTGKVSSSLILGKLGSYARKNKVATALRELGRIEKSIFMIDYVTDDSLRRKITHGLNKTEAVNALARELFFGRRGKFMERDIRRQLQSASALNVLINAISIWNAVYLQEAYDYLVKIDPEVTNYMNHISPINWEHITFLGEYKFDLLSIPKRLRKLNIEK

>Tn6294

MRGKELLTEDQRTEFVRIPADMSESELETYYTFSQYDLEIIKRHRRDHNRLGFAVQLCVLRYPGWSLSDVGPIPDYIIEYIARQINVNPNSFSLYAQREPTKHEHMEEIRQVYGYENFSLGNYRKVAQFLLNHALQNGNSMYLLRTAQEELRNQKIILPGMTTIERLVWEARQRAEERIFKSLTCTLSKWQKQKLDKLIDPFVDNRKTPLAWLRELPGQSSPEAFLKVIKRLEYIRDLKLEINSEQIHPNRLLQLSRIGARYEPHSFRRFKEKKKYAILVSYLVTLSQDLIDQAIEIHGRQMMILQSKGRKTQEEMQKENGKAVNEKVVHFADIGAALIQARNEGLDPFNAIEMIMPWDKIVSSVEEAQKLARPMDYDYLDLLENRYSYLRKYTPTFLKSLEFRSTQGTEPLLQALKTLNEINESGKRKIPNDAPVDFIPKRWKKHVYGDDGIINRHYYEMAALTELKNHIRSGDISVVGSRLHKDFEEYLVPKEDWKTTRLTETKLAVRSSADEYLEERRKSLAQRLTWVSNNLDSLEGVNIEKAKIRLDRLEKNTPEEARAFSLSLYNMLPRIKLTDLLMEVAHWTGFDEMLIHASTNRPPKGEEKVVLMAALMAMGTNIGLTKMAEATPGVTYHQMANAAQWRLFDDAISRAQATLVNFQHKLKLASYWGDGSTSSSDGMRVQVGVSSLHADSNPHYGSGKGATIYRFTSDQFSSFYTKVINTNARDAVHVIDGLLHHETDLNIEEHFTDTAGYADSVFGLSHLLGFRFAPRLRDLADSKLFTIQTPNEFPKLENILRGRINTKIIQENFDDVLRVAHSIREGKVSGSLMMGKLGSYARQNKLATTLREMGRIEKTIFILDYISNETLRRRIQRGLNKGEAMNGLARALFFGKRGELRERGIQDQLQRASALNILINAISVWNTVYLTEATKLLKEKGNLREDLLKHISPLGWEHINFLGEYNFDARKVTSLHSLHPLLQ

>Tn5084

MRGKELLTEDQRTEFVRIPADMSESELETYYTFSQYDLEIIKRHRRDHNRLGFAVQLCVLRYPGWSLSDVGPIPDYIIEYIASQIDVNPNSFSLYAQREPTKHEHMEEIRQVYGYQNFSLGNYRKAAQFLLNHALQNGNSMYLLRTAQEELRNQKIILPGMTTIERLVWETRQRAEERIFKSLTCTLSKWQKQKLDKLIDPFVDNRKTPLAWLRELPGQSSPEAFLKVIKRLEYIRELKLEINTEQIHPNRLLQLSRIGARYEPHSFRRFKEMKKYAILVAYLVTLSQDLIDQAIEIHDRQMMILQSKGRKTQEEMQKENGKAVNEKVVHFADIGAALIQARNEGLDPFNAIEMIMPWDKIVSSVEEAQKLARPMDYDYLDLLENRFSYLRKYTPTFLKSLEFRSTQGTEPLLQALKTLNEINESGKRKIPNDAPVDFIPKRWKKHVYGDDGIINRHYYEMAALTELKNHIRSGDISVVGSRLHKDFEEYLVPKKDWTTTRLTETKLAVRSSADEYIEERRKSLAQRLTWVSNNLDSLEGVNIEKAKIRVDRLEKNTPEEARAFSLSLYNMLPRIKLTDLLMEVAHWTGFDEMLIHASTNRPPKGEEKVVLMAALMAMGTNIGLTKMAEATPGVTYHQMANAAQWRLFDDAISRAQATLVNFQHKLKLASYWGDGSTSSSDGMRVQVGVSSLHADANPHYGPGKGATIYRFTSDQFSSFYTKVINTNARDAVHVIDGLLHHETDLNIEEHFTDTAGYADSVFGLSHLLGFRFAPRLRDLADSKLFTIQMPNEFPKLENILRGRINTKIIQENFDDVLRVAHSIREGKVSGSLIMGKLGSYARQNKLATTLREMGRIEKTIFILDYISNETLRRRIQRGLNKGEAMNGLARALFFGKRGELRERGIQDQLQRASALNILINAISVWNTVYLTEATKLLKEKGNLREDLLKHVSPLGWEHINFLGEYNFDASKVASLHSLRPLIQ

>Tn6332

MRGKELLTEDQRTEFVRIPADMSESELETYYTFSQYDLEIIKRHRRDHNRLGFAVQLCVLRYPGWSLSDVGPIPDYIIEYIASQIDVNPNSFSLYAQREPTKHEHMEEIRQVYGYQNFSLGNYRKAAQFLLNHALQNGNSMYLLRTAQEELRNQKIILPGMTTIERLVWETRQRAEERIFKSLTCTLSKWQKQKLDKLIDPFVDNRKTPLAWLRELPGQSSPEAFLKVIKRLEYIRELKLEINTEQIHPNRLLQLSRIGARYEPHSFRRFKEMKKYAILVAYLVTLSQDLIDQAIEIHDRQMMILQSKGRKTQEEMQKENGKAVNEKVVHFADIGAALIQARNEGLDPFNAIEMIMPWDKIVSSVEEAQKLARPMDYDYLDLLENRFSYLRKYTPTFLKSLEFRSTQGTEPLLQALKTLNEINESGKRKIPNDAPVDFIPKRWKKHVYGDDGIINRHYYEMAALTELKNHIRSGDISVVGSRLHKDFEEYLVPKKDWTTTRLTETKLAVRSSADEYIEERRKSLAQRLTWVSNNLDSLEGVNIEKAKIRVDRLEKNTPEEARAFSLSLYNMLPRIKLTDLLMEVAHWTGFDEMLIHASTNRPPKGEEKVVLMAALMAMGTNIGLTKMAEATPGVTYHQMANAAQWRLFDDAISRAQATLVNFQHKLKLASYWGDGSTSSSDGMRVQVGVSSLHADANPHYGSGKGATIYRFTSDQFSSFYTKVINTNARDAVHVIDGLLHHETDLNIEEHFTDTAGYADSVFGLSHLLGFRFAPRLRDLADSKLFTIQTPNEFPKLENILRGRINTKIIQENFDDVLRVAHSIREGKVSGSLIMGKLGSYARQNKLATTLREMGRIEKTIFILDYISNETLRRRIQRGLNKGEAMNGLARALFFGKRGELRERGIQDQLQRASALNILINAISVWNTVYLTEATKLLKEKGNLREDLLKHVSPLGWEHINFLGEYNFDASKVASLHSLRPLIQ

>Tn21

MPRRSILSAAERESLLALPDSKDDLIRHYTFNDTDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDELPFPPLLKLVADQLKVGVESWNEYGQREQTRREHLSELQTVFGFRPFTMSHYRQAVQMLTELAMQTDKGIVLASALIGHLRRQSVILPALNAVERASAEAITRANRRIYDALAEPLADAHRRRLDDLLKRRDNGKTTWLAWLRQSPAKPNSRHMLEHIERLKAWQALDLPTGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALATEGMATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLYGRIGQALIDAKQSGRDAFAAIEAVMSWDSFAESVTEAQKLAQPDDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKNVLDAIEVLRGMNTDNARKLPADAPTGFIKPRWQKLVMTDAGIDRRYYELCALSELKNSLRSGDIWVQGSRQFKDFEDYLVPPEKFTSLKQSSELPLAVATDCEQYLHERLTLLEAQLATVNRMAAANDLPDAIITESGLKITPLDAAVPDTAQALIDQTAMVLPHVKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHTRDETYSTALAELVNAQFRHPFAGHWGDGTTSSSDGQNFRTASKAKSTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGLRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERAAHALRGNGHAVDDSLLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn5060

MPRRSILSAAERESLLALPDSKDDLIRHYTFNDTDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDELPFPPLLKLVADQLKVGVESWNEYGQREQTRREHLSELQTVFGFRPFTMSHYRQAVQMLTELAMQTDKGIVLASALIGHLRRQSVILPALNAVERASAEAITRANRRIYDALAEPLADAHRRRLDDLLKRRDNGKTTWLAWLRQSPAKPNSRHMLEHIERLKAWQALDLPTGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALATEGMATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLYGRIGQALIDAKQSGRDAFAAIEAVMSWDSFAESVTEAQKLAQPDDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKNVLDAIEVLRGMNTDNARKLPADAPTGFIKPRWQKLVMTDAGIDRRYYELCALSELKNSLRSGDIWVQGSRQFKDFEDYLVPPEKFTSLKQSSELPLAVATDCEQYLHERLTLLEAQLATVNRMAAANDLPDAIITESGLKITPLDAAVPDTAQALIDQTAMVLPHVKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHTRDETYSTALAELVNAQFRHPFAGHWGDGTTSSSDGQNFRTASKAKSTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGLRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERAAHALRGNGHAVDDSLLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn6727

MPRRSILSAAERESLLALPDSKDDLIRHYTFNDTDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDELPFPPLLKLVADQLKVGVESWNEYGQREQTRREHLSELQTVFGFRPFTMSHYRQAVQMLTELAMQTDKGIVLASALIGHLRRQSVILPALNAVERASAEAITRANRRIYDALAEPLADAHRRRLDDLLKRRDNGKTTWLAWLRQSPAKPNSRHMLEHIERLKAWQALDLPTGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLYGRIGQALIDAKQSGRDAFAAIEAVMSWDSFAESVTEAQKLAQPDDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKNVLDAIEVLRGMNTDNARKLPADAPTGFIKPRWQKLVMTDAGIDRRYYELCAQSELKNSLRSGDIWVQGSRQFKDFEDYLVPPEKFTSLKQSSELPLAVATDCEQYLHERLTLLEAQLATVNRMAAANDLPDAIITESGLKITPLDAAVPDTAQALIDQTAMVLPHVKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHTRDETYSTALAELVNAQFRHPFAGHWGDGTTSSSDGQNFRTASKAKSTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGLRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERAAHALRGNGHAVDDSLLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn6911

MPRRSILSAAERESLLALPDSKDDLIRHYTFNDTDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDELPFPPLLKLVADQLKVGVESWNEYGQREQTRREHLSELQTVFGFRPFTMSHYRQAVQMLTELAMQTDKGIVLASALIGHLRRQSVILPALNAVERASAEAITRANRRIYDALAEPLADAHRRRLDDLLKRRDNGKTTWLAWLRQSPAKPNSRHMLEHIERLKAWQALDLPTGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALATEGMATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLYGRIGQALIDAKQSGRDAFAAIEAVMSWDSFAESVTEAQKLAQPDDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKNVLDAIEVLRGMNTDNARKLPADAPTGFIKPRWQKLVMTDAGIDRRYYELCALSELKNSLRSGDIWVQGSRQFKDFEDYLVPPEKFTSLKQSSELPLAVATDCEQYLHERLTLLEAQLATVNRMAAANDLPDAIITESGLKITPLDAAVPDTAQALIDQTAMVLPHVKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHTRDETYSTALAELVNAQFRHPFAGHWGDGTTSSSDGQNFRTASKAKSTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGLRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERAAHALRGNGHAVDDSLLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn6906

MPRRSILSAAERESLLALPDTKDELIRHYTFSETDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDEPPFPPLLKLVADQLKVSVESWDEYGQREQTRREHLVELQTVFGFQPFTMGHYRQAVQLLTEMALQTDKGIVLASTLIEHLRQQSVILPALNAVERASAEAITRANRRIYDALAEPLSDAHRRRLDDLLKRRDNGKTTWLAWLRQSPVKPNSRHMLEHIERLKAWQALDLPSGIERSVHQNRLLKIAREGGQMTPADLAKFEAQRRYATLVALAIEGMATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLFGRIGQALIEAKQAGRDPFAAIEAVMSWDAFAESVTEAQKLAQPEDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKDVLDAIEVLRGMNSDNARKVPADAPTEFIKPRWQKLVMTDTGIDRRYYELCALSEMKNALRSGDIWVQGSRQFKDFEDYLVPPAKFASLKQASELPLAVATDCNRYLNDRLTLLETQLATVNRMATANELPDAIITESGLKITPLDAAVPDTAQALIDQTAMILPHVKITELLLEVDEWTGFTRHFAHLKSGDPAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHIRDETYGAALADLVNAQFRHPFAEHWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAVVLWNTVYLERAAHALRGNGHAVDDALLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn5037

MPRRSILSAAERESLLALPDSKDNLIRHYTFSDTDLSIIRQRRGPANRLGFAVQLCYLRFPGIVLGVDQPPFLPLLKLVASQLKVGIESWDEYGQREQTRREHLVELQTVFGFQPFTMSHYRQAVHTLTDLAMQTDKGVVLADALIEHLRRQSIILPALNAIERASAEAITRANRRIYEALSEPLPDGHRRRLDDLLKRRDNGKTTWLAWLRQSPAKPNSRHMLEHIERLKTWQALDMPVGIERSVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVSLAIEGMATVTDEIIDLHDRILGKLFNVAKNKHQQQFQASGKAINAKVRLYGRIGQALIDAKQSGRDPFAAIESVMSWDAFAESVTEAQKLAQPEDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPRAKGVLDAIDVLRGMNTDNARKVPSNAPTGFIKPRWKKLVMTDAGIDRRYYELCVLSELKNSLRSGDIWVQGSRQFKDFEDYLVPPAKFTSLKQASELPLAVATDCDQYLSERLELLEAQLATVNRMAAANNLPDAIITESGLKIPLDAAVPATAQALIDQTAMILPHIKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWLVRDETYSTALAELVNAQFRHPFAGHWGDGTASSSDDQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPSHTKVVNVGVRDSTYVLDGLLYHESDLRVEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGEAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQNVELRRRVHAGFNKGEARNALARAVNFNRLGEIRDRSFEQQRYRASGLNLGTAAVVLWNTVYLERAANALRRNGHAVDDALLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn1696

MPRRSILSATERESLLALPDAKDELIRHYTFNETDLSVIRQRRGAANRLGFAVQLCYLRFPGTFLGVDEPPFPPLLRMVAAQLKMPVESWSEYGQREQTRREHLVELQTVFGFKPFTMSHYRQAVHTLTELALQTDKGIVLASALVENLRRQSIILPAMNAIERASAEAITRANRRIYAALTDSLLSPHRQRLDELLKRKDGSKVTWLAWLRQSPAKPNSRHMLEHIERLKSWQALDLPAGIERQVHQNRLLKIAREGGQMTPADLAKFEVQRRYATLVALAIEGMATVTDEIIDLHDRIIGKLFNAAKNKHQQQFQASGKAINDKVRMYGRIGQALIEAKQSGSDPFAAIEAVMPWDTFAASVTEAQTLARPADFDFLHHIGESYATLRRYAPQFLGVLKLRAAPAAKGVLDAIDMLRGMNSDSARKVPADAPTAFIKPRWAKLVLTDDGIDRRYYELCALSELKNALRSGDVWVQGSRQFKDFDEYLVPVEKFATLKLASELPLAVATDCDQYLHDRLELLEAQLATVNRMAAANDLPDAIITTASGLKITPLDAAVPDAAQAMIDQTAMLLPHLKITELLMEVDEWTGFTRHFTHLKTSDTAKDKTLLLTTILADAINLGLTKMAESCPGTTYAKLSWLQAWHIRDETYSTALAELVNAQFRQPFAGNWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFSAKVVNVGIRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFGLMHLLGFRFAPRIRDLGETKLFIPKGDAAYDALKPMISSDRLNIKQIRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFYRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATSALRGNGTALDDTLLQYLSPLGWEHINLTGDYLWRSSAKVGAGKFRPLRPLPPA

>Tn4659

MPRRSILSVAERESLLALPDSKDDLIRHYSFSDADLTLISQRRGSANRLGFAVQLCYMRYPGVTLAVDEEPFAPLLRLVATQLKVPPEAWADYGQRAETRREHLLELQALFDFKPFTTRHYRPCVHSLDELAWQSDKGFVLATELVKGLRQKNILLPSLSVIERICAEAITRANRRIYETLSEPLSNTHLGCLDGLLKRRDKGQTTWLAWLRQSPVKPNSRHMLEHIERLKAWQALDLPAGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALVIEGMATVTDEIIDLHDRILGKLFNAAKNKHQKQFQASGKAINAKVRLYGRIGQVLLDAKQNGGDPFAAIEAVMSWDAFAKSVTEAQKLAQPEDFDFLHHIGDSYTTLRRYAPQFLDVLKLRAAPAAKDVFDGIEVLRAMNINNARKVPVDAPTSFIKKRWKKLVITDVGIDRRYYELCALSELKNALRSGDIWVQGSRQFKDFEDYLVPPEKFARLKQTSELPLAVATDCDKYLHDRLTLLEAQLAIVNRMALANDLPDAIITESGLKITPLDAAVPETAQALIDQTAMALPHIKITELLLEVDEWTGFTRHFAHLKSGDEAKDKYLLLSTLLADAINLGLTKMAESCPGTTYAKLSWLQAWHIRDETYSTALAELVNAQLRHPFATHWGDGTTSSSDGQNFRTGNKAESTGHINPKYGSSPGRTFYTHISDQYAPFHIKVVNVGLRDSTYVLDGLLYHEADLRIEEHYTDTAGFTDHVFGLMHLLGFRFAPRIRDLGDTKLFIPKGNMTYDGLKSMISKDKLDIKAIRTHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVNAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERSANALHGHGHAVDESLLQYLSPLGWEHINLTGDYLWRRNTKVGAGKFRPLRRLQLA

>Tn1013

MPRRLILSATERDTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLSLLRYPGYALGSDSELPEPVIQWVAKQVQADPTSWAKYGERDVTRREHAQELRNYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLKTFQLVDLPEALGRHIHQNRLLKLAREGGQMTPKDLCKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSGAKHKHQQQFQKQGKAINDKVRLYSKIGQALLEAKESGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKQRWRPLVITPEGLDRRFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAERFAALKHAQALPLAINPNRNQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDSAVPNTAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLAAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHTFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPNSVQDYPTLRPMVGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQAMGEAGKSVDGELLQYLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRLPGKP

>Tn1403

MPRRSILSATERDTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLSLLRYPGYALGTDSEPPEPVIQWVAKQVQADPASWLKYGERDVTRREHAQELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLKTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSSAKHKHQQQFQKQGKAINDKVRLYSKIGQALLEAKESGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLSEMNAYNLRKVPADAPTAFIKPRWKPLVITPEGLDRRFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAERFAALKHAQALPLAINPNSNQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDSAVPNTAQALIDQTSHLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHTFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPNSVQDYPTLRPMVGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGMNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQAMGDAGKSVDGELLQYLSPLGWEHINLTGDYVWRQSRRLEDGKLRPLRLPGKP

>Tn4656

MPRRLILSATERDTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLSLLRYPGYALGTDSELPEPVIQWVAKQVQADPESWAKYGERDVTRREHTQELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLRTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSSAKHKHQQQFQKQGKAINDKVRLYSKIGQALLEAKETGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKPRWKPLVITPEGLDRRFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAEKFAALKREQALPLAINPSSDQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDSAVPNTAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHTFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPNSVQDYPTLRPMVGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERSTQAMGEAGKQVNGELLQYLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRLPGKP

>Tn2610

MPRRLILSATERDTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLCLLRYPGYALGTDSELPEPVILWVAKQVQAEPASWAKYGERDVTRREHAQELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLKTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSGAKHKHQQQFQKQGKAINDKVRLYSRIGQALLEAKESGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKPRWKPLVITPEGLDRKFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAEKFAALKREQALPLAINPNSDQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDAAVPDRAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHAFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPQGVQAYPTLRPLIGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQGLVEAGKPVDGELLQFLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRMPGKP

>Tn501

MPRRLILSATERGTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLCLLRYPGYALGTDSELPEPVILWVAKQVQTDPASWTKYGERDVTRREHAQELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLKTFQLVDLPEVLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSGAKHKHQQQFQKQGKAINDKVRLYSKIGQALLEAKEAGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKPRWKPLVITPEGLDRRFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAEKFAALKREQALPLAINPNSDQYLEERLQLLDEQLATVARLAKDNELPDAILTESGLKITPLDAAVPDRAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYQHAFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPQGVQTYPTLRPLIGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQGLVEAGKPVDGELLQFLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRMPGKP

>Tn1722

MPRRLILSATERDTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLCLLRYPGYALGTDSELPEPVILWVAKQVQAEPASWAKYGERDVTRREHAQELRTYLQLAPFGLSDLPALVRELTELAQQTDNGLLLAGQALESLRQKRPILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLKTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSGAKHKHQQQFQKQGKAMNDKVRLYSRIGQALLEAKESGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLEPRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKPRWKPLVITPEGLDRKFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAEKFAALKREQALPLAINPNSDQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDAAVPDRAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHAFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPQGVQAYPTLRPLIGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKFGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQGLVEAGKPVDGELLQFLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRMPGKP

>Tn5719

MPRRSLLTSVERTGLLAFPATDDELIQHYTFAEADLSVIRQRRGSHNRLGFAVQLCYLRYPGFALPTDAEPPVSLLDIVGRQLRIEPDIWPQYAQRPETRREHLLELQAWLKLTPFTVTDYRHFVHQLADLAQQTDRGIVLAEALIELLRQQRIILPTIEVIERVCSEALTRGTRQVYEALTAPLGDFHRRALDGLLAIREGTKGSGLIWLRQPPGPAKPKHVLAHLERLKTLRDLVLPGDLEHAIHQNRLLKLAREGGQMTAQHLRDLEPSRRFATLVAVVLDTRATLIDEIIDLHDRFMGSLFSKAKRNHADRFQQSGKAINDKVRLYSRIGRALLEAKQSGSDPFAAIEAIIPWDVFSESITEAEALARPEDFDFLSLVGDGFTQLRRYTPTLLEALSMKAAPAARELLAAVEMLKGMNDRQARKVPDDAPTSFVRKRWENLVRTDDGLDRRFYELCILSELKNSLRSGDIWVQGSRQFKDFEDYLLPPPRFAAQRDQRELGLAVETDCERFLEARLAVLQEQLATVERLAAANELPDAAITSTGRIKISPLDNAVPDEAEVLMQQAYSLLPHLKITELLLEVDGWTGFSRHFKHLKSDEAAEDQHLLLTTVLADAINLGLSKMAESCPGVTYAKLTWLQAWHIRDETYSAGLAEVVNAQFRQPFAAYWGDGTTSSSDGQNFKAGGRGQAAGQVNLKYGQEPGVQFYTHISDQYAPFHTKVINATVRDATHVLDGLLYHESDLRIEEHYTDTAGFTDHLFALMHLLGFRFAPRIRDLADKRLFIHSDAKQYPTLAGLIGGNVNVKHIRAHWDEILRLAASIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFALDWMQNVELRRRVQIGLNKGEAKNALARAVFLNRLGEIRDRSFENQRYRASGLNLVVAAIILWNTVYLGRAVQALRDSGKNIDERLLPHLSPLGWEHINLTGDYIWRQNKQVAQGKFRALRMPGEA

>Tn6907

MPRRQILSSEEQKRLLVIPDDEIILTRMCFLNERDIALINKHRRPANRLGFAVLLCYLRGSGFIPDKNTSPHCGVVSRVASRLKLQPDLWHEYASREQTRWEHLTELYRYLKLSPFSRTLQKDCIRHLHPYAMRTDKGFMLAEEMLSWLHNNNVIFPSVDVIERTIAEIVTLSDRAVFSALTAQLENHHKSALDSLLISESDQPSRLAWLLQPSGKINGKNVLQHIDRLNSITALGLPDGIALSVHQNRLLKLAREGRKMSSRDLAKFTDVRRYATMICIITEARATLTDEVIDLHERILGSLFSRAKRTQSERLQQTGKLIQSKLKQYVTVGQALLNARESGEDPWTAIEDVLPWQEFINSVEETRVLSRKGNFDPLHLITEKYSTLRKYAPRMLSALQFTAAPAAQMLSDALDTITEMYRKQLRQVPPAAPTGFIPESWRKLVLTPSGIDRKYYEFCVLNELKGALRSGDIWVKGSRRYRNFDDYLITAAEFEKFRHNDQLQLAVQTDCRAYLQARMTLLASRLEEVNAMALAGDLPDVDISDKGVKITPLENSVPSGVSPFADLVYGMLPHPKITEILEEVDNWTGFTRHFTHLKNNNVRPKDGRPLLTTILADGINLGLTKMAESCPGATKSTLEGIQAWYIRDETYSAALVELVNAQKARPLAAFWGDGTTSSSDGQNFRVGSHGRYAGQVNLKYGQEPGVQIYTHISDQYSPYYAKVITRVRDSTHVLDGLLYHESDLEITEHYTDTAGFTEHVFALMHLLGFTFAPRIRDLHDKRLFIQGNNWDYPGLQSVISTTRLNLKDIEAHWDEVLRLATSIKQGTVTASLMMKKLASYPKQNGLAKALREIGRIERTLFMLDWFRDPGLRQRVQAGLNKGEARNALARAVFMHRLGEIRDRGLENQSYRASGLTLLTAAITLWNTVYIERAIESLKRKGVPINEQLVAHLSPLGWEHINLSGDYVWRHNVKLGSGKYRPLRTVNTELYKKQS

>Tn2501

MPRRQILSSEEQERLLVIPDDEIILTRMCFLNEQDIALINKHRRPANRLGFAVLLCYLRGPGFIPDKSNVPHSSVISRIASRLKLQPDLWPEYASREQTRWEHLTELYRYLKLSPFSRSLQKDCIRHLHPYAMRTDKGFMLAEEMLNWLHSNNVIFPSVDVIERTLAEAVTLADRAVFSALTAQLEKQHKSALDSLLKSEGEQASRLAWLLQPPGKINGKNVLQHIDRLNSIAALGLPDGITLSIHQNRLLKLAREGRKMSSRDLAKFTDVRRYATLVCVIQEAQATLTDEVIELHERILGTLFSRAKRTQAERLQLTGKLIQSKLKQYVTVGQALLHARESGEDPWAAIEDVLPWQEFINSLEETQFLSRKGNFDPLHLITEKYSTLRKYAPRMLSALQFIATPPAQTLSDALDTIRDMYRKQLRKVPPAAPTGFIPESWRKLVLTPSGIDRKYYEFCVMNELKGALRSGDIWVKGSRRYRNFDDYLIPAAEFEKSRHNDQLQLAVQTDCRAYLQARMTLLASRLEEVNAMALAGDLPDVDISDKGVKITPLENSVPSGASPFADLVYGMLPHPKITEILEEVDNWTGFTRHFAHLKNNNVRPKDGRLLLTTILADGINLGLTKMAESCPGATKSSLEGIQAWYIRDETYSAALAELVNAQKARPLAAFWGDGTTSSSDGQNFRVGSHGRYAGQVNLKYGQEPGVQIYTHISDQYSPFYAKVISRVRDSTHVLDGLLYHESDLEITEHYTDTAGFTEHVFALMHLLGFAFAPRIRDLHDKRLFIHGKAERYPGLQSVISTTSLNIKDIEAHWDEILRLAASIKQGTVTASLMIKKLASYPKQNGLAKALREIGRIERTLFMLDWFRDPGLRRRVQAGLNKGEARNALARAVFMHRLGEIRDRGLENQSYRASGLTLLTAAITLWNTVYIERAIESLKRKGIPINNQLVSHLSPLGWEHINLSGDYVWRNNIKLGSGKYRSLRTVDTELYKKQS

>Tn6414

MPRRSILSAAERESLLALPDSKDDLIRHYTFNDTDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDELPFPPLLKLVADQLKVGVESWNEYGQREQTRREHLSELQTVFGFRPFTMSHYRQAVQMLTELAMQTDKGIVLASALIGHLRRQSVILPALNAVERASAEAITRANRRIYDALAEPLADAHRRRLDDLLKRRDNGKTTWLAWLRQSPAKPNSRHMLEHIERLKAWQALDLPTGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALATEGMATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLYGRIGQALIDAKQSGRDAFAAIEAVMSWDSFAESVTEAQKLAQPDDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKNVLDAIEVLRGMNTDNARKLPADAPTGFIKPRWQKLVMTDAGIDRRYYELCALSELKNSLRSGDIWVQGSRQFKDFEDYLVPPEKFTSLKQSSELPLAVATDCEQYLHERLTLLEAQLATVNRMAAANDLPDAIITESGLKITPLDAAVPDTAQALIDQTAMVLPHVKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHTRDETYSTALAELVNAQFRHPFAGHWGDGTTSSSDGQNFRTASKAKSTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGLRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERAAHALRGNGHAVDDSLLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn6758

MPRRSILSAAERESLLALPDTKDDLIRHYTFSDTDLSIIRQRRGPANRLGFAVQLCYLRFPGIFLGVDQAPSLPLLKLVADQLKVGVESWDDYGQREQTRREHLVELQTVFGFQPFTMSHYRQAVHTLTDLAMQTDKGIVLASTLVEHLRRQSIILPALNAIERASAEAITRANRRIYDALAEPLSDTHRRRLDDLLRRRDNGKTTWLAWLRQSPVKPNSRHMLEHIERLKAWQALDLPSGIERSVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALAIEGMATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLFGRIGQALIEAKQAGRDPFAAIEAVMSWDAFAESVTEAQKLAQPDDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKNVLDAIEVLRGMNTDNARKVPADAPTDFIKPRWQKLVMTDAGIDRRYYELCALSELKNSLRSGDIWVQGSRQFKDFEDYLVPPAKFASLKQSSALPLAVATDCDQYLHDRLTLLEAQLATVNRMAAANDLPNAIITESGLKITPLDAAVPDTAQALIDQTAMILPHVKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHTRDETYSTALAELVNAQFRHPFAEHWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLFIPKGDTAYDALKPMISSDRLNIKAIRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAIALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAVVLWNTVYLERAAHALRGNGHAVDDALLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn163

MPRRMILTDAERQNFLALPTDDDTLIRHWSLDDDDRRLIETRRHDDTRLGLALQLCALRYPGRLIQRGEVIPSVALSFLAEQLGIDPEALSTFARRAATRYEQLAILRQHYGFTELSHPLRADLLAFARGIAIAATKDKFVVATLADEMRRRRIVIPGITVLERLAGQACTEAEEALYADVAGRLAPDLIIRMEALLGAGRRAKQSGISWLREPPGKAGVSAMRGLIDRLEAVRHAGIPNDVLQAIPAHRVRRMAQEGRRLTAQNFEQMRPGRRHATLAAFLLEMEIALTDAAIGMFETLIGKSFRQAEATRDKQLLESASSATSALDFFANFGEAITAQRESGLSLDEAVTTVTSWEELIQATASAKAVKRPRSEDDLITYLSAQYVRIRRFVTPFLASFTFEGNRRNAHFIEAIVRMETAWRKGSRSAEQPWVRKALLLANARWRKEIVGADGAIDRKMLELFLIVELKNRIAAGDIWIRGSRAYRALDEHMISQQTFAVIKAEARIPVAIPIDVETYLTQKAEALDQKLREAARRLEAGRGDTRIGAKGLRVPAVRTTETEAATAFARRVATTMPPVRLTDLVADIDRMTGFSSLFEHLQTGRPPSNLRVFYAALIAEATNLGFSKMAHACPGITRRQLQQMAIWHFREETFTLALAKLVEAQHSTPFSTMFGSNTVSSSDGQHIHLGDGGEVAGSVNGRYGNNPIIKLYTAISGGYAPFHTKIIAATASEAVHVLDALLETDAGLHIIRHHVDGGGVSDLVFALCHALGFAFVPRIPDLDGRCLYGFEPAKQYGILQNVMGDRIDADLIRANWDDILRLMTSLRTRTVSASLMLKRLSATTRQSGLAQALRQMGRIERTIFTLDWINDEQLRKTTTAELNKGESRNSLVRAVNLHRLGRFRDRSQENLSIRASALNLIVSAIIHWNTIYTGRIVDALRNAGQAIPDHLLSSLSPLTWEHVNLTGDYLWEEKPALDENGFRAIPFVL

>Tn6908

MPRRLILTDAERRTILALPTDEATLIRHWSLDDQDLALLDTRRRDDTRLGLALQLCALRYPGRLIRPGETIPEAAAVFLADQLGGDPDALASFARRAPTRYEQLTILRRRFGFTDLCRPLRGDLVAFARGIALAVAKDRLVVTALAEEMRRRRIVIPGITVLERLAAQACTEAEDALLADVAGRLTPDLVIRMEALLTVGPLAMGPRHARQSGISWLREPPGSAGTAAMRGLVDRLEAVRHVGVPATVLGGVPAHRIRRMAQEGRRLTAQNFAQMRPSRRHATLAAFLHDTQTALTDAAIGMFEILVGRAFRQAEADREAHLTASVVAAAEALDFFAGFGDALVAHKGVGLSLDAAITTVATWEALARATAAAQANRQARHGDDTIAFLRRHHGRIRAFAAPFLTRFTFEAARPGMALVTAVSQLGEAWKAGRRSPGQAWIDAALSLLDRRWSRHVRAPDGTIDRKMLEIFLVVELKNRITAGEVWVAGSRTYRALEEKLIPPQTFAIIKAEARVPVAIPVDVEIYLAEKAAALEGKLQAAARRLKTGRGETRIGAKGLRVPAVRTAETEAAVALARQVAATMPPIRLTDLMADVDRMTGFSALFEHLQTGRPPADRRVFLAALIAEATNLGFGKMALACPGLTRRQLQQVAIWHFREDTFALALARLVEAQHAAPFSATFGSHAIASSDGQHIYLGDGGEIAGGVNGHYGSDPITKLYTTISGRYAPFHVKIIAATASEAVHVLDALLETEAGAAVTRHHVDGGGVSDLVFALCHGLGFAFVPRIPDLDGRCLYGFAPARHYGVLQSVMGERLDAGLIRRHWDDILRLLTSLRTRTVSASLVLRQLSATPRQSGLVQALRQMGRVERTLFTLDWIGDEQLRKGTTAELNKGERRNGLVRAVNLHRLGRFRDRSQDSLAIRASALNLVVTAIIYWNTIYTGRVVDALRARGALLPDHLLTGLSPLGWEHIGLTGDYLWEETPGIDQTGFRAIPITP

>Tn5403

MSRRHIFTERQRAALFDLPTDELSLLKFYTLGDDDLENIRQRRRPENRIGFALQLCALRYPGRALAPGEMIPREVLSFVGAQLGVPADALLTYATRRQTRQQHMDTLREIYGYKTFTGRGARDLREWTFGQAEDARSNEDLAHRFIVRCRETSTILPAVSTIERLCADALVAAERRIETRIVENLTADVRDHLDKLLSEMLAGNISRFIWLRNFEVGNNSAAANRLLDRLEFLRTLNINHSALASIPAHRIARLRRQGERYFTDGLRDITSDRRWAILAVCVVEWEAAIADAIVETHDRIVGKTWREAKRQHDETISGSKATLTDTIRTFTALGASLLEARSDGTPLEMAVASSVAWDRLAQLVATGTQLSNTLADEPLAYVGQGYHRFRRYAPRMLRCLKLEAAPVAGPLVAAALSIGEMKGVASPERRFLRPSSKWNRHLRAQEKGDTRLWEVAVLFHLRDAFRSGDVWLAHSRRYGDLKQVLVPMIAAQENAKLAVPSNPQDWLADRKARLTIALKRLARAARNGTIPHGSIEDGTLRIDRLTADVPDGAEALILDLYRRMPSVRITDMLLEVDAALGFTDAFTHLRTGAPCRDRIGLLNVLLAEGLNLGLRKMAEATNTHDYWQLSRLARWHVESEAMNQALAIVVAAQGKLPMSRVWGMGTSASSDGQFFPTARHGEAMNMVNAKYGSVPGLKAYTHVSDQFAPFACQSIPATVSEAPYILDGLLMNEVGRHVREQYADTAGFTDHLFGASSLLGYNLVLRIRDLPSKRLYVFNPDTTPRELRKLVGGKAREDLIVANWPDIFRCAATMTAGKIRPSQLLRKLASYPRQNNLAVALREVGRIERTLFIIEWILDTDMQRRAQIGLNKGEAHHALKNALRIGRQGEIRDRTTEGQHYRIAGLNLLTAVIIYWNTVHLGHAVTERRNEGLDVPPEFLPHISPLAGRTFY

>Tn6122

MPRRSILTARQRAALFDLPTDEATILYHYTLADDDLEFIRTRRHARNRLGFALQLCAFRYPGRLLASGEVIPEAISSFIAAQLGEEMDELCRYAETDVTRRRHLVDLRQLYGFKMFSGHRARELKAWLAGEAEVATSNHDLARRFVEECRRTQTILPGVSVIERLCADALVAAERRIESAIVNRLDEDRKARLDTLLTEMVDGTVSRFVWLRQFEVGQNSADVGRLLDRLEVLRDLNISLDILAGIPPHRVTGLRRQGERYFADGLRDISSDRRLAILAVCAVEWCAAISDAVVETHDRIVGKTWQGAKRLCDAKIADAKAAVQDTLRAFKSLGSALLDARSDGSSLDQATELACGWGRLEGLVATAAELTHTMAADPLTHVGQGYLRFRRYAPRMLRVLDIEAAGIAAPLLQATALIADDEKPETRPVGFLRRGSKWHRHLNAAAGDGHRLWEVAVLFHLREAFRSGDIWLLHSRRYADLKQALVPAEAVEGAPRLTVPLDPETWLADRKARMTDGLARLAKAARAGAIPGGSIENGVLKTDRLSAAVPQEADELVLDLYDRLPTIRITELLQEVDADIGFTEAFTHLQTGAPCKDQIGMLTVLLAEGLNLGLSKMAEATSTHDYFQLSRLSRWHMESDAINQALALVIEAQARLPMAQFWGGGVTASSDGQFFPAARQGEAMNLINAKYGSEPGLKAYTHVSDQFGPFATQNIPATVSEAPYILDGLLMNEAGQKISEQYADTGGFTDQVFAVTALLSYRFIPRIRDLPSTRLYLFDPATAPNELRGLIGSKIREGVIVQNWPGVLRAVATMATGVLPPSQLLKKFAAYPRQHELAVALREIGRIERTLFIIEWLLDADMQRRAQIGLNKGEAHHALKNALRIGRQGEIRDRTAEGQHYRMAGLNLLAAIIIYWNTKHLGQAVAARQRAGLNCAPNLLAHISPLGWAHILLTGEYRWRRQTGASL

>Tn3434

MAHRTILTERQRSVLFDLPIDETAMLRHYILADDDLEIIRARRRPHNRFGFALQLCALRYPGRLLTPGEVIPMEITRFLAAQLGLKSDDLAGYASREETRHEHLAALRDLYGYKMFTGRGSRDLKAWLERTAETARSNEDLARRFVEQCRATQTILPGITVIERLCADALVAAERRIDARIADRLDDEMCSRLDALLTETADSSVTRFVWLRQFEVGQNSADMNRLLDRLEFLQAMAVDRSILSGVPPHRIARLRRQGERYFAGDLRDISGDRRLAILAVCALEWRSAIADAVVESHDRIVGKTWREAKRVCDARADDAKAALKDTLQGFSNFGSALLEAYEDQASLMEAVQNAGGWSSLRGLVSTAAQLTDTLAADPLAHVVHGYHRFRRYAPRMLRALDIQAAPVAEPLLAAADIVAGTETTTTRPLTFLRRASKWHRHLNHDDGNRLWEVAVLCHLRDAFRAGDIWLAHSRRYGDLKDALVPTEVARATPKLAMPFEPELWLADRKSRLADGLERLARAARAGAIPGGSIEDGVLKIDRLTAAVPEEADAMVLDLYNRLPEIRITDLLLEVDDEIGFTEAFTHLRTGVPCKDRVGMLNVLLAEGLNLGLSKMAGATNTHDYFQLSRLSRWHVESEAMARALAMVIEGQSALPMARFWGAGQTASSDGQFFPTTRQGEAMNLINAKYGHEPGLKAYTHVSDQFGPFATQTIPATVNEAPYILDGLLMTDAGQKIREQYADTGGFTDHVFAVTALLGFQFIPRIRDLPSKRLYLFNPASCPKELKGLIGGKVREPVISSNWPDILRAAATMVAGAMPPSQLLRKFAAYPRQHELAVALREIGRIERTLFIIDWLLDADMQRRAQIGLNKGEAHHALKNALRIGRQGEIRDRTAQGQHFRMAGLNLLAAIIIYWNTRHLGHAVDSRRSDGLDCSANLLAHISPLGWAHILLTGEYRWPKR

>Tn6135

MPRRVTLTDRQREALLHLPVDQGELLRHYTLSDEDLGHIRQRRRAHNRFGFALQLCVLRYPGRVLAPGELIPAQVSDFIAAQLGLTSDDLLLYAAREETRHEHLADLRRIYGYRSFSGRGARDLREWIAREAEAATSNEDLARRFVAECRRTRTILPGSSTIERLCADALVEAERRIEDLIAHRITPTLSENLAHLLEDTVDGRVTRFVWLRQFEVGANSAAANRLMDRLEYLRRFDLPADLLDGVPAHRVTRLRRQGERYYADGMRDLPEDRRLAILAVCTLEWRSSLADVIVETHDRIVGRLYRASERLCNTRIADEKAAVRDTLKSFAEIGGALLGAQDDGTALDGIIATGPGWERFRTLVATASALTNVLAADPLSRVLDGYHRFRLYAPRMLRLLDMQAAPIATPLLAAVAMLRNGIKVDPPVDFLRPNSKWHRHLRAEPSGDHRLWEIAVLFHIRDAFRSGDIWLAGSRRYGDLKQLLVPPQAIEQTARLAVPLRPGEWLAERRARLDTRLKEFGRAARTGTIPGGIIENGKLHIDKLRADTPEGAEDLVLDLYQQLPPARITDLLLEVDERTGFSEAFTHLRTGAPCSDRIGLMNVLLAEGVNLGLRKMAAATNTHSFWELLRIARWHVEGSAYDRALAMIVEAHAALPMAAFWGQGQSASSDGQFFLATEQGEAMNLINAKYGNVPGLKGYSHVSDQYAPFATQVIPATVSEAPYILDGLLMNDAGRRVRQHFADTGGFTDHVFAACALLGYRFAPRIRDLPQKRLYAFTPNATPANVRALVGGKINEPLIERNWPDILRIMATIAAGIVAPSQILRKLASYPRQNELALALREVGRIERTLFMIDWILDAGLQRQAQIGLNKGEAHHALKRAISFHRRGEIRDRSGEAQHYRIAGMNLLAAIIIFWNTMKLGEVVNTRAASGTHIAPDLLAHVSPLGWEHINLTGEYRWPKSLA

>Tn5393c

MPRRVTLTDRQKDALLRLPTSQTDLLKHYTLSDEDLGHIRLRRRAHNRFGFALQLCVLRYPGRVLAPGELIPAEVIEFIGAQLGLGADDLVDYAAREETRHEHLAELRGLYGFRTFSGRGASELKEWLFREAEMAVSNEDIARRFVAECRRTRTVLPATSTIERLCAAALVDAERRIETRIASRLPMSIREQLLALLEETADDRVTRFVWLRQFEPGSNSSSANRLLDRLEYLQRIDLPEDLLAGVPAHRVTRLRRQGERYYADGMRDLPEDRRLAILAVCVSEWQAMLADAVVETHDRIVGRLYRASERICHAKVADEAGVVRDTLKSFAEIGGALVDAQDDGQPLGDVIASGSGWDGLKTLVAMATRLTATMADDPLNHVLDGYHRFRRYAPRMLRLLDLRAAPVALPLLEAVTALRTGLNDAAMTSFLRPSSKWHRHLRAQRAGDARLWEIAVLFHLRDAFRSGDVWLTRSRRYGDLKHALVPAQSIAEGGRLAVPLRPEEWLADRQARLDMRLRELGRAARAGTIPGGSIENGVLHIEKLEAAAPTGAEDLVLDLYKQIPPTRITDLLLEVDAATGFTEAFTHLRTGAPCADRIGLMNVILAEGINLGLRKMADATNTHTFWELIRIGRWHVEGEAYDRALAMVVEAQAALPMARFWGMGTSASSDGQFFVATEQGEAMNLVNAKYGNTPGLKAYSHVSDQYAPFATQVIPATASEAPYILDGLLMNDAGRHIREQFTDTGGFTDHVFAACAILGYRFAPRIRDLPSKRLYAFNPSAAPAHLRALIGGKVNQAMIERNWPDILRIAATIAAGTVAPSQILRKLASYPRQNELATALREVGRVERTLFMIDWILDAELQRRAQIGLNKGEAHHALKRAISFHRRGEIRDRSAEGQHYRIAGMNLLAAIIIFWNTMKLGEVVANQKRDGKLLSPDLLAHVSPLGWEHINLTGEYRWPKP

>Tn5393a

MPRRVTLTDRQKDALLRLPTSQTDLLKHYTLSDEDLGHIRLRRRAHNRFGFALQLCVLRYPGRVLAPGELIPAEVIEFIGAQLGLGADDLVDYAAREETRHEHLAELRGLYGFRTFSGRGASELKEWLFREAEMAVSNEDIARRFVAECRRTRTVLPATSTIERLCAAALVDAERRIETRIASRLPMSIREQLLALLEETADDRVTRFVWLRQFEPGSNSSSANRLLDRLEYLQRIDLPEDLLAGVPAHRVTRLRRQGERYYADGMRDLPEDRRLAILAVCVSEWQAMLADAVVETHDRIVGRLYRASERICHAKVADEAGVVRDTLKSFAEIGGALVDAQDDGQPLGDVIASGSGWDGLKTLVAMATRLTATMADDPLNHVLDGYHRFRRYAPRMLRLLDLRAAPVALPLLEAVTALRTGLNDAAMTSFLRPSSKWHRHLRAQRAGDARLWEIAVLFHLRDAFRSGDVWLTRSRRYGDLKHALVPAQSIAEGGRLAVPLRPEEWLADRQARLDMRLRDVGRAARAGTIPGGSIENGVLHIEKLEAAAPTGAEDLVLDLYKQIPPTRITDLLLEVDAATGFTEAFTHLRTGAPCADRIGLMNVILAEGINLGLRKMADRTNTHTFWELIRIGRWHVEGEAYDRALAMVVEAQAALPMARFWGMGTSASSDGQFFVATEQGEAMNLVNAKYGNTPGLKAYSHVSDQYAPFATQVIPATASEAPYILDGLLMNDAGRHIREQFTDTGGFTDHVFAACAILGYRFAPRIRDLPSKRLYAFNPSAAPAHLRALIGGKVNQAMIERNWPDILRIAATIAAGTVAPSQILRKLASYPRQNELATALREVGRVERTLFMIDWILDAELQRRAQIGLNKGERHHALKRAISFHRRGEIRDRSAEGQHYRIAGMNLLAAIIIFWNTMKLGEVVANQKRDGKLLSPDLLAHVSPLGWEHINLTGEYRWPKP

>Tn6399a

MARRQILSLSERESLLALPDEELTLTRMAYFSEHDLALISAHRKPASRFGFAVLLCYLKNVGFTPDKKIPPSDALLKHIASRLKLTGDLWPAYLSGRETTRREHLTELYRYLGLKAFTGKIQQDCITHLLPMATRTDKGILLAEELLVWLRQNNVIIPSIDVVERSCAEAMAGGDKIVFQTLNAPLTPAHRDALDCLLESSDNQSSRLTWLLQPPGKINGKNVLQHLDRLSSIESLALPEGIDRTIHQNRLLKLAREGRKMSSRDLTRFSAARRHAILVCVLEEARATLTDEVIELHERMLNSLFSKAKRTQAERLQQTGKLIQSKLRQYINVGQALSDARDSGGDPWLAIENILPWPEFVASLEETRHLARKNNFDPLHIITEKYSTLRKYAPRMLSALQLIATPAAQPLADALVVIKDMYRKQSRKVPATAPLEFVPESWRKVVITPAGIDRQYYEFCALSELKGALRSGDIWVKGSRRYKNFDDYLIPEKDFDKLTPALPLPVSADYHEYITSRMTLLQSRLEEVNAMSALGELPDVEISYRGVKVSPLDNSVPVQVSPLAELVYSMLPRPKITEILDEVNSWTTFTRHFSHIKTDITRPDIRLLLTTILADGINLGLTKMAEACPGSTKSSLEDIQAWYIRDETYSAALAELVNAQGKRPLAAFWGDGTTSSSDGQNFRTGRSGRYAGQVNPKYGQEPGRQFYTHISDQYSPFYTCIISRVRDSTHVLDGLLYHESDLEIREHYTDTAGFTDHVFALMHLLGFAFCPRIRDLHDKKLFIKGKAGQYPALQSLISTTSLNLKEIEIHWREVLRLATSIKQGTVTASLMLKKLASYPKQNGLAKALREIGRIERTLFMLDWFRDPALRRRVQAGLNKGEARNALARAVFMHRLGEIRDRKPENQSYRASGLTLLTAAISLWNTVYMERAVDALKRKGVKINEQLLSHLSPLGWEHINLTGDYIWKSNRIPSAGKFRRLRPAKLGRSKNNLNVQ

>Tn6535

MARRQILSLSERESLLALPDEELTLTRMAYFSEHDLALISAHRKPASRFGFAVLLCYLKNVGFTPDKKIPPSDALLKHIASRLKLTGDLWPAYLSGRETTRREHLTELYRYLGLKAFTGKIQQDCITHLLPMATRTDKGILLAEELLVWLRQNNVIIPSIDVVERSCAEAMAGGDKIVFQTLNAPLTPAHRDALDCLLESSDNQSSRLTWLLQPPGKINGKNVLQHLDRLSSIESLALPEGIDRTIHQNRLLKLAREGRKMSSRDLTRFSAARRHAILVCVLEEARATLTDEVIELHERMLNSLFSKAKRTQAERLQQTGKLIQSKLRQYINVGQALSDARDSGGDPWLAIENILPWPEFVASLEETRHLARKNNFDPLHIITEKYSTLRKYAPRMLSALQLIATPAAQPLADALVVIKDMYRKQSRKVPATAPLEFVPESWRKVVITPAGIDRQYYEFCALSELKGALRSGDIWVKGSRRYKNFDDYLIPEKDFDKLTPALPLPVSADYHEYITSRMTLLQSRLEEVNAMSALGELPDVEISYRGVKVSPLDNSVPVQVSPLAELVYSMLPRPKITEILDEVNSWTTFTRHFSHIKTDITRPDIRLLLTTILADGINLGLTKMAEACPGSTKSSLEDIQAWYIRDETYSAALAELVNAQGKRPLAAFWGDGTTSSSDGQNFRTGRSGRYAGQVNPKYGQEPGRQFYTHISDQYSPFYTCIISRVRDSTHVLDGLLYHESDLEIREHYTDTAGFTDHVFALMHLLGFAFCPRIRDLHDKKLFIKGKAGQYPALQSLISTTSLNLKEIEIHWREVLRLATSIKQGTVTASLMLKKLASYPKQNGLAKALREIGRIERTLFMLDWFRDPALRRRVQAGLNKGEARNALARAVFMHRLGEIRDRKPENQSYRASGLTLLTAAISLWNTVYMERAVDALKRKGVKINEQLLSHLSPLGWEHINLTGDYIWKSNRIPSAGKFRRLRPAKLGRSKNNLNVQ

>Tn6296

MPRRLILSATERDTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLCLLRYPGYALGTDSELPEPVILWVAKQVQAEPASWAKYGERDVTRREHAQELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLKTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSGAKHKHQQQFQKQGKAINDKVRLYSRIGQALLEAKESGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKPRWKPLVITPEGLDRKFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAEKFAALKREQALPLAINPNSDQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDAAVPDRAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHAFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPQGVQAYPTLRPLIGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQGLVEAGKPVDGELLQFLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRMPGKP

>Tn6346

MPRRSILSAAERESLLALPDTKDELIRHYTFSETDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDEPPFPPLLKLVADQLKVSVESWDEYGQREQTRREHLVELQTVFGFQPFTMGHYRQAVQLLTEMALQTDKGIVLASTLIEHLRQQSVILPALNAVERASAEAITRANRRIYDALAEPLSDAHRRRLDDLLKRRDNGKTTWLAWLRQSPVKPNSRHMLEHIERLKAWQALDLPSGIERSVHQNRLLKIAREGGQMTPADLAKFEAQRRYATLVALAIEGMATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLFGRIGQALIEAKQAGRDPFAAIEAVMSWDAFAESVTEAQKLAQPEDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKDVLDAIEVLRGMNSDNARKVPADAPTEFIKPRWQKLVMTDTGIDRRYYELCALSEMKNALRSGDIWVQGSRQFKDFEDYLVPPAKFASLKQASELPLAVATDCNRYLNDRLTLLETQLATVNRMATANELPDAIITESGLKITPLDAAVPDTAQALIDQTAMILPHVKITELLLEVDEWTGFTRHFAHLKSGDPAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHIRDETYGAALADLVNAQFRHPFAEHWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAVVLWNTVYLERAAHALRGNGHAVDDALLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn6811

MPRRSILSATERDTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDGNRLGFAVQLCLLRYPGYALGNDTALPEPVIQWVAKQVQADPASWAKYGERDVTRREHALELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPTLSVIDRACSEAIARANRRVYRALVEPLNPSHHAKLDELLTIKAGSNSTWLTWLRQSPLKPNSRHMIEHIERLKIFQLVGLPDSLGRHIHQNRLLKLAREGGQMTPQDLGKFEPERRYATLVAVVLESTATVIDELVDLHDRILVKLFSGAKHKHQQQFQKQGKAINDKVRLYSKIGQALLDAKESGDDPFAAIEAVIPWDEFTQSVTEAELLARPEAFDHLHLVSENFATLRRYTPAFLEVLQLRAATAAQAVLDAVQTLREMNADNLRKVPSDAPTAFIKPRWKPLVITPEGIDRRFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPPEKFAALKREQALPLAINPNSDQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDSAVPNTAQALIDQTSQLLPRIKITELLMDVDEWTGFTRHFTHLKDGAQAKDRTLLLTAILGDAINLGLTKMAESSPGMTYAKLSWLQAWHIRDETYSTALAELVNSQFRHAFAANWGDGTTSSSDGQRFRAGGKGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPNSVQDYPTLRPMLGGTLNIKHVCAHWDEILRLAASIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQAREEAGKPVNPELLQYLSPLGWEHINLTGDYVWRQSRKLEDGKFRPLRQLGKP

>Tn6603a

MPRRLILSATERDTLLALPESQDDMIRYYTFNDSDLSLIRQRRGDANRLGFAVQLSLLRYPGYALGTDSEPPEPVILWVAKQVQADPASWAKYGERDVTRREHAHELRTYLQLAPFGLSDFRNLVRELTELAQQTDKGLLLASQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLKHIERLKTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSGAKHKHQQQFQKQGKAINDKVRLYSKIGQALLEAKENGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKPRWKPLVITPEGHDRRFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAEKFAALKREQALPLAINPNSDQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDSAVPNTAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHAFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPNSVQDYPTLRPMVGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQGLVEVGKPVNGELLQYLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRLPGKP

>Tn6358

MPRRSILSATERESLLALPDAKDELIRHYTFNETDLSVIRQRRGAANRLGFAVQLCYLRFPGTFLGVDEPPFPPLLRMVAAQLKMPVESWSEYGQREQTRREHLVELQTVFGFKPFTMSHYRQAVHTLTELALQTDKGIVLASALVENLRRQSIILPAMNAIERASAEAITRANRRIYAALTDSLLSPHRQRLDELLKRKDGSKVTWLAWLRQSPAKPNSRHMLEHIERLKSWQALDLPAGIERQVHQNRLLKIAREGGQMTPADLAKFEVQRRYATLVALAIEGMATVTDEIIDLHDRIIGKLFNAAKNKHQQQFQASGKAINDKVRMYGRIGQALIEAKQSGSDPFAAIEAVMPWDTFAASVTEAQTLARPADFDFLHHIGESYATLRRYAPQFLGVLKLRAAPAAKGVLDAIDMLRGMNSDSARKVPADAPTAFIKPRWAKLVLTDDGIDRRYYELCALSELKNALRSGDVWVQGSRQFKDFDEYLVPVEKFATLKLASELPLAVATDCDQYLHDRLELLEAQLATVNRMAAANDLPDAIITTASGLKITPLDAAVPDAAQAMIDQTAMLLPHLKITELLMEVDEWTGFTRHFTHLKTSDTAKDKTLLLTTILADAINLGLTKMAESCPGTTYAKLSWLQAWHIRDETYSTALAELVNAQFRQPFAGNWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFSAKVVNVGIRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFGLMHLLGFRFAPRIRDLGETKLFIPKGDAAYDALKPMISSDRLNIKQIRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFYRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATSALRGNGTALDDTLLQYLSPLGWEHINLTGDYLWRSSAKVGAGKFRPLRPLPPA

>Tn6558

MPRRLILSATERDTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLCLLRYPGYALGTDSELPEPVILWVAKQVQAEPASWAKYGERDVTRREHAQELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLKTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSGAKHKHQQQFQKQGKAINDKVRLYSRIGQALLEAKESGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKPRWKPLVITPEGLDRKFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAEKFAALKREQALPLAINPNSDQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDAAVPDRAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHAFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPQGVQAYPTLRPLIGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQGLVEAGKPVDGELLQFLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRMPGKP

>Tn6395

MPRRSILSATERESLLALPDAKDELIRHYTFNETDLSVIRQRRGAANRLGFAVQLCYLRFPGTFLGVDEPPFPPLLRMVAAQLKMPVESWSEYGQREQTRREHLVELQTVFGFKPFTMSHYRQAVHTLTELALQTDKGIVLASALVENLRRQSIILPAMNAIERASAEAITRANRRIYAALTDSLLSPHRQRLDELLKRKDGSKVTWLAWLRQSPAKPNSRHMLEHIERLKSWQALDLPAGIERQVHQNRLLKIAREGGQMTPADLAKFEVQRRYATLVALAIEGMATVTDEIIDLHDRIIGKLFNAAKNKHQQQFQASGKAINDKVRMYGRIGQALIEAKQSGSDPFAAIEAVMPWDTFAASVTEAQTLARPADFDFLHHIGESYATLRRYAPQFLGVLKLRAAPAAKGVLDAIDMLRGMNSDSARKVPADAPTAFIKPRWAKLVLTDDGIDRRYYELCALSELKNALRSGDVWVQGSRQFKDFDEYLVPVEKFATLKLASELPLAVATDCDQYLHDRLELLEAQLATVNRMAAANDLPDAIITTASGLKITPLDAAVPDAAQAMIDQTAMLLPHLKITELLMEVDEWTGFTRHFTHLKTSDTAKDKTLLLTTILADAINLGLTKMAESCPGTTYAKLSWLQAWHIRDETYSTALAELVNAQFRQPFAGNWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFSAKVVNVGIRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFGLMHLLGFRFAPRIRDLGETKLFIPKGDAAYDALKPMISSDRLNIKQIRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFYRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATSALRGNGTALDDTLLQYLSPLGWEHINLTGDYLWRSSAKVGAGKFRPLRPLPPA

>Tn4658a

MPRRLILSATERDTLLALPESQDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLSLLRYPGYALGTDSELPEPVIQWVAKQVQADPESWAKYGERDVTRREHTQELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLRTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSSAKHKHQQQFQKQGKAINDKVRLYSKIGQALLEAKETGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKPRWKPLVITPEGLDRRFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAEKFAALKREQALPLAINPSSDQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDSAVPNTAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHTFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPNSVQDYPTLRPMVGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERSTQAMGEAGKQVNGELLQYLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRLPGKP

>Tn6427

MQLCLLRFPGYALGTDSERPEPVILWVAKQVQTDPASWEKYGERDVTRREHAQELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQRRRILPALSVIDRACSEAIARANRRVYRALVDPLTDSHRAKLDELLTLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLKTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSSAKHKHQQQFQKQGKAINDKVRLYSKIGQALLEAKESGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADSLRKVAADAPTAFIKPRWKPLVITLEGNDRRFYEICALSELKNALRSGDIWVKGSRQFRDFDDFLLPAEKFATLKREQALPLTINPNSDQYLEERLPLLDEQLATVIRLAKDNEMPEAILTESGLKITPLDSAVPDRAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYWAALAELVNHQFRHTFAAHWGDGTTSSSDGQRFRAGGRGESTRHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTHHVFALMHLLGFRFAPRIRDLGETKLYVPQGVHAYPALRPLIGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFTLDWLQSVELRRRVHAGLNKGEARNLLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQGLVEAGKPVDGELLQYLSPLGWEHINLTCDYGWRQSRRLEDGKFRPLRLPGKP

>Tn6567

MPRRLILSATERDTLLALPESKDDLIRYYTFNDSDLSLIRQRRGDANRLGFAVQLCLLRYPGYALGTDSELPEPVILWVAKQVQTDPASWTKYGERDVTRREHAQELRTYLQLAPFGLSDFRALVRELTELAQQTDKGLLLAGQALESLRQKRRILPALSVIDRACSEAIARANRRVYRALVEPLTDSHRAKLDELLKLKAGSSITWLTWLRQAPLKPNSRHMLEHIERLKTFQLVDLPEGLGRHIHQNRLLKLAREGGQMTPKDLGKFEPQRRYATLAAVVLESTATVIDELVDLHDRILVKLFSGAKHKHQQQFQKQGKAINDKVRLYSKIGQALLEAKESGSDPYAAIEAVIPWDEFTESVSEAELLARPEGFDHLHLVGENFATLRRYTPALLEVLELRAAPAAQGVLAAVQTLREMNADNLRKVPADAPTAFIKPRWKPLVITPEGLDRRFYEICALSELKNALRSGDIWVKGSRQFRDFDDYLLPAEKFAALKREQALPLAINPNSDQYLEERLQLLDEQLATVTRLAKDNELPDAILTESGLKITPLDSAVPNTAQALIDQTSQLLPRIKITELLMDVDDWTGFSRHFTHLKDGAEAKDRTLLLSAILGDAINLGLTKMAESSPGLTYAKLSWLQAWHIRDETYSAALAELVNHQYRHTFAAHWGDGTTSSSDGQRFRAGGRGESTGHVNPKYGSEPGRLFYTHISDQYAPFSTRVVNVGVRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGETKLYVPNSVQDYPTLRPMVGGTLNIKHVRAHWDDILRLASSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNSLARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATQAMGEAGKSVDGELLQYLSPLGWEHINLTGDYVWRQSRRLEDGKFRPLRLPGKP

>Tn6756a

MPVDFLTTEQELNYGRYVAEPNDVQLARYFHLDERDLAFINQRRGRHNRLGIALQLTTARFLGTFLTDLTRVLPGVQQFVAVQLNIRRPEVLSRYAERDTTLREHTALIKEYYGYHEFGDFPWSFRLKRLLYTRAWLSNERPGLMFDFATAWLLQNKVLLPGATTLVRLVSEIRERANQQLWKKLAALPDSWQTARVTELLDIPEGQRISPLEQLKKGPVTVSGPAFTEALERYIRLRNLEFSRLSFTGLPAIQLRNLARYAGMASVKYIARMPQQRKLAVLTAFVKAQETAALDEAVDVLDMLILDITRAAKKTGQKKRLRTLKDLDRAALLLAQACSLLLAEQADDAELRETIFSSIPKSRLAESVSKVNELARPQNNNFHDEMVEQYGRVKRFLPAVLRDLHFQAAPAGEHTLSAIHYLTELNGSKKRILDDAPEHIITGPWKRLVYDAEGRIQRAGYSLCLLERLQDALRRRDIWLENSDRWGNPREKLLQGEEWQVQRVPICRALGHPTDGHKGVQQLAVQLDKTWKAVASRFEGNAEVNICHDGKYPSLTISSLEKLEEPPSLHRLNSRVRQLLPPVDLTELLLEIDARTGFTREFTHVSESGARAQDLHISLCAVLMAEACNIGLEPLIKHNIPALTRHRLSWVKQNYLRAETLVSANVRLVDFQSTLELAGRWGGGEVASADGMRFVTPVKTVNSGPNRKYFGSGRGITWYNFVSDQYSGFHGIVVPGTLRDSIFVLEGLLEQQTGLNPVEIMTDTAGTSDIIFGLFWLLGYQFSPRLADAGEAVFWRVDKSANYGALDELARGCADLSKAEYQWDEMMRAAGSLKLGTIHASELIRSLLKSSRPSGLAQAIMEVGRVNKTLYLLNYIDDEDYRRRILTQLNRGEGRHAVARAICYGQRGEIRKRYREGQEDQLGALGLVTNAVVLWNTLYMQEALSWMRRNGEETGGEDIVRLSPLMHGHINMLGHYTFTLPEDILKGELRELNFNLNNELPS

>Tn6736

MPVDFLTTEQELNYGRYVAEPNDVQLARYFHLDERDLAFINQRRGRHNRLGIALQLTTARFLGTFLTDLTRVLPGVQQFVAVQLNIRRPEVLTRYAERVTTLREHTALIKEYYGYHEFGDFPWSFRLKRLLYTRAWLSNERPGLMFDFATAWLLQNKVLLPGATTLVRLVSEIRERANQRLWKKLAALPDSWQTARVTELLDIPEGQRTSPLEQLKKGPVTVSGPAFTEALERYIRLRNLEFSRLNFTGLPAIQLRNLARYAGMASVKYIARMPQQRKLAVLTAFVKAQETAALDEAVDVLDMLILDITRAAKKTGQKKRLRTLKDLDRAALILARACSLLLDEQADDAELRETIFNSIPKSRLAESVSKVNELARPQNNNFHDEMVEQYGRVKRFLPAVLRDLHFQAAPAGEHTLSAIHYLTELNGSKKRILDNAPEHIITGPWKRLVYDAEGRIQRAGYSLCLLERLQDALRRRDIWLENSDRWGNPREKLLQGEEWQAQRVPVCRALGHPTDGHKGVQQLAVQLDETWKTVASRFEGNAEVHICHDGKHPSLTISSLEKLEEPPSLHRLNSRVRLLLPPVDLTELLLEIDARTGFTREFTHVSESGARAQDLHISLCAVLMAEACNIGLEPLIKHNIPALTRHRLSWVKQNYLRAETLVSANARLVDFQSTLELAGRWGGGEVASADGMRFVTPVKTVNSGPNRKYFGSGRGITWYNFVSDQYSGFHGIVVPGTLRDSIFVLEGLLEQQTGLNPVEIMTDTAGTSDIIFGLFWLLGYQFSPRLADAGEAVFWRVDKSANYGALDELARGCADLSKAEDQWDEMMRTAGSLKLGTIHASELIRSLLKSSRPSGLAQAIMEVGRVNKTLYLLNYIDDEDYRRRILTQLNRGEGRHAVARAICYGQRGEIRKRYREGQEDQLGALGLVTNAVVLWNTLYMQEALSWIRSNGEEIGVEDIARLSPLMHGHINMLEHYTFTLPEDILKGELRELNFNLNNELTS

>Tn6384

MPRRSILSATERESLLALPDAKDELIRHYTFNETDLSVIRQRRGAANRLGFAVQLCYLRFPGTFLGVDEPPFPPLLRMVAAQLKMPVESWSEYGQREQTRREHLVELQTVFGFKPFTMSHYRQAVHTLTELALQTDKGIVLASALVENLRRQSIILPAMNAIERASAEAITRANRRIYAALTDSLLSPHRQRLDELLKRKDGSKVTWLAWLRQSPAKPNSRHMLEHIERLKSWQALDLPAGIERQVHQNRLLKIAREGGHMTPADLAKFEVQRRYATLVALAIEGMATVTDEIIDLHDRIIGKLFNAAKNKHQQQFQASGKAINDKVRMYGRIGQALIEAKQSGSDPFAAIEAVMPWDTFAASVTEAQTLARPADFDFLHHIGESYATLRRYAPQFLGVLKLRAAPAAKGVLDAIDMLRGMNSDSARKVPADAPTAFIKPRWAKLVLTDDGIDRRYYELCALSELKNALRSGDVWVQGSRQFKDFDEYLVPVEKFATLKLASELPLAVATDCDQYLHDRLELLEAQLATVNRMAAANDLPDAIITTASGLKITPLDAAVPDAAQAMIDQTAMLLPHLKITELLMEVDEWTGFTRHFTHLKTSDTAKDKTLLLTTILADAINLGLTKMAESCPGTTYAKLSWLQAWHIRDETYSTALAELVNAQFRQPFAGNWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFSAKVVNVGIRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFGLMHLLGFRFAPRIRDLGETKLFIPKGDAAYDALKPMISSDRLNIKQIRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFYRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATSALRGNGTALDDTLLQYLSPLGWEHINLTGDYLWRSSAKVGAGKFRPLRPLPPA

>Tn6382

MPRRSILSATERESLLALPDAKDELIRHYTFNETDLSVIRQRRGAANRLGFAVQLCYLRFPGTFLGVDEPPFPPLLRMVAAQLKMPVESWSEYGQREQTRREHLVELQTVFGFKPFTMSHYRQAVHTLTELALQTDKGIVLASALVENLRRQSIILPAMNAIERASAEAITRANRRIYAALTDSLLSPHRQRLDELLKRKDGSKVTWLAWLRQSPAKPNSRHMLEHIERLKSWQALDLPAGIERQVHQNRLLKIAREGGQMTPADLAKFEVQRRYATLVALAIEGMATVTDEIIDLHDRIIGKLFNAAKNKHQQQFQASGKAINDKVRMYGRIGQALIEAKQSGSDPFAAIEAVMPWDTFAASVTEAQTLARPADFDFLHHIGESYATLRRYAPQFLGVLKLRAAPAAKGVLDAIDMLRGMNSDSARKVPADAPTAFIKPRWAKLVLTDDGIDRRYYELCALSELKNALRSGDVWVQGSRQFKDFDEYLVPVEKFATLKLASELPLAVATDCDQYLHDRLELLEAQLATVNRMAAANDLPDAIITTASGLKITPLDAAVPDAAQAMIDQTAMLLPHLKITELLMEVDEWTGFTRHFTHLKTSDTAKDKTLLLTTILADAINLGLTKMAESCPGTTYAKLSWLQAWHIRDETYSTALAELVNAQFRQPFAGNWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFSAKVVNVGIRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFGLMHLLGFRFAPRIRDLGETKLFIPKGDAAYDALKPMISSDRLNIKQIRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFYRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATSALRGNGTALDDTLLQYLSPLGWEHINLTGDYLWRSSAKVGAGKFRPLRPLPPA

>Tn4663

MPRRSILSVAERESLLALPDSKDDLIRHYSFSDADLTLISQRRGSANRLGFAVQLCYMRYPGVTLAVDEEPFAPLLRLVATQLKVPPEAWADYGQRAETRREHLLELQALFDFKPFTTRHYRPCVHSLDELAWQSDKGFVLATELVKGLRQKNILLPSLSVIERICAEAITRANRRIYETLSEPLSNTHLGCLDGLLKRRDKGQTTWLAWLRQSPVKPNSRHMLEHIERLKAWQALDLPAGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALVIEGMATVTDEIIDLHDRILGKLFNAAKNKHQKQFQASGKAINAKVRLYGRIGQVLLDAKQNGGDPFAAIEAVMSWDAFAKSVTEAQKLAQPEDFDFLHHIGDSYTTLRRYAPQFLDVLKLRAAPAAKDVFDGIEVLRAMNINNARKVPVDAPTSFIKKRWKKLVITDVGIDRRYYELCALSELKNALRSGDIWVQGSRQFKDFEDYLVPPEKFARLKQTSELPLAVATDCDKYLHDRLTLLEAQLAIVNRMALANDLPDAIITESGLKITPLDAAVPETAQALIDQTAMALPHIKITELLLEVDEWTGFTRHFAHLKSGDEAKDKYLLLSTLLADAINLGLTKMAESCPGTTYAKLSWLQAWHIRDETYSTALAELVNAQLRHPFATHWGDGTTSSSDGQNFRTGNKAESTGHINPKYGSSPGRTFYTHISDQYAPFHIKVVNVGLRDSTYVLDGLLYHEADLRIEEHYTDTAGFTDHVFGLMHLLGFRFAPRIRDLGDTKLFIPKGNMTYDGLKSMISKDKLDIKAIRTHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVNAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERSANALHGHGHAVDESLLQYLSPLGWEHINLTGDYLWRRNTKVGAGKFRPLRRLQLA

>Tn6570

MPRRSILSATERESLLTLPDAKDELIRHYTFNETDLSVIRQRRGAANRLGFAVQLCYLRFPGIFLGVDDPPFLPLLRMVAAQLKVPVGSWNHYGQREQTRREHLVELQTVFGFKPFTMSHYRQAVHTLTELALQTDKGIVLASTLVENLRRQSIILPAMNAIERASAEAITRANRSIHAALADSLIPVHRQCLDELLKRKDGSKMTWLAWLRQSPAKPNSRHMLEHIERLKAWQALDLPAGIERQVHQNRLLKIAREGGQMTPADLAKFESQRRYATLVALAIEGMATVTDEIIDLHDRIIGKLFNAAKNKHQQQFQASGKAINDKVRMYGRIERTLFILDWLQSVELRRRVHAGLNKGEALDDTLLQYLSPLGWEHINLTGDYLWRSSAKVGAGKFRPLRPLPPA

>Tn6595

MARRQILSLSERESLLALPEDELTLTRMAYFSEHDLALISAHRKPASRFGFAVLLCYLKNVGFAPDKKIPPSDALLKHIAGRLKLTGDLWPAYLSGRETTRREHLTELYRYLGVKAFTGKIQQDCITHLLPMATRTDKGILLAEELLVWLRKNNVIIPAIDVVERTCAEAMAGGDKIVFQTLNAPLTQAHRDALDRLLESSDNQSSRLTWLLQPPGKINGKNVLQHLDRLSSIESLALPEGIERTIHQNRLLKLAREGRKMSSRDLTRFSAARRHAILVCVLEEARAILTDEVIELHERMLSSLFSKAKRTQAERLQQTGKLIQSKLRQYIDVGQALSDARDSGGDPWLAIENILPWPEFVASLEETRHLARKNNFDPLHIITEKYSTLRKYAPRMLSALQLVATPAAQPLANALVVIKDMYRKQSRKVPATAPLEFVPESWRKVVITPAGIDRQYYEFCALSELKGALRSGDIWVKGSRRYKNFDDYLIPEKDFDKLTPALPLPVSADFHEYITNRMTLLQSRLEEVNAMAALGELPDVEISDRGVKVSPLDNSVPAQVSPLAELVYSMLPRPKITEILDEVNSWTTFTRHFSHIKNDITRPDTRLLLTTILADGINLGLTKMAEACPGSTKSSLEDIQAWYIRNETYSAALAELVNAQGKRPLAAFWGDGTTSSSDGQNFRTGSSGRYAGQVNPKYGQEPGRQFYTHISDQYSPFYTCIISRVRDSTHVLDGLLYHESDLEIREHYTDTAGFTDHVFALMHLLGFAFCPRIRDLHDKKLFIKGKADQYPALQSLISITSLNLKEIEIHWREVLRLATSIKQGTVTASLMLKKLASYPKQNGLAKALREIGRIERTLFMLDWFRDPALRRRVQAGLNKGEARNALARAVFMHRLGEIRDRKPENQSYRASGLTLLTAAISLWNTMYMERAIDALKRKGLKINEQLLSHLSPLGWEHINLTGDYIWKSNRIPASGRFRRLRPAKVERSKNNLNVQ

>Tn6187

MPRRSILSAAERESLLALPDSKDDLIRHYTFNDTDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDELPFPPLLKLVADQLKVGVESWNEYGQREQTRREHLSELQTVFGFRPFTMSHYRQAVQMLTELAMQTDKGIVLASALIGHLRRQSVILPALNAVERASAEAITRANRRIYDALAEPLADAHRRRLDDLLKRRDNGKTTWLAWLRQSPAKPNSRHMLEHIERLKAWQALDLPTGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALATEGMATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLYGRIGQALIDAKQSGRDAFAAIEAVMSWDSFAESVTEAQKLAQPDDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKNVLDAIEVLRGMNTDNARKLPADAPTGFIKPRWQKLVMTDAGIDRRYYELCALSELKNSLRSGDIWVQGSRQFKDFEDYLVPPEKFTSLKQSSELPLAVATDCEQYLHERLTLLEAQLATVNRMAAANDLPDAIITESGLKITPLDAAVPDTAQALIDQTAMVLPHVKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHTRDETYSTALAELVNAQFRHPFAGHWGDGTTSSSDGQNFRTASKAKSTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGLRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERAAHALRGNGHAVDDSLLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn6896

PRRSILSAAERESLLALPDSKDDLIRHYTFNDTDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDELPFPPLLKLVADQLKVGVESWNEYGQREQTRREHLSELQTVFGFRPFTMSHYRQAVQMLTELAMQTDKGIVLASALIGHLRRQSVILPALNAVERASAEAITRANRRIYDALAEPLADAHRRRLDDLLKRRDNGKTTWLAWLRQSPAKPNSRHMLEHIERLKAWQALDLPTGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLYGRIGQALIDAKQSGRDAFAAIEAVMSWDSFAESVTEAQKLAQPDDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKNVLDAIEVLRGMNTDNARKLPADAPTGFIKPRWQKLVMTDAGIDRRYYELCALSELKNSLRSGDIWVQGSRQFKDFEDYLVPPEKFTSLKQSSELPLAVATDCEQYLHERLTLLEAQLATVNHMAAANDLPDAIITESGLKITPLDAAVPDTAQALIDQTAMVLPHVKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHTRDETYSTALAELVNAQFRHPFAGHWGDGTTSSSDGQNFRTASKAKSTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGLRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERAAHALRGNGHAVDDSLLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn6909

MPRRSILSATERESLLALPDAKDELIRHYTFNETDLSVIRQRRGAANRLGFAVQLCYLRFPGTFLGVDEPPFPPLLRMVAAQLKMPVESWSEYGQREQTRREHLVELQTVFGFKPFTMSHYRQAVHTLTELALQTDKGIVLASALVENLRRQSIILPAMNAIERASAEAITRANRRIYAALTDSLLSPHRQRLDELLKRKDGSKVTWLAWLRQSPAKPNSRHMLEHIERLKSWQALDLPAGIERQVHQNRLLKIAREGGQMTPADLAKFEVQRRYATLVALAIEGMATVTDEIIDLHDRIIGKLFNAAKNKHQQQFQASGKAINDKVRMYGRIGQALIEAKQSGSDPFAAIEAVMPWDTFAASVTEAQTLARPADFDFLHHIGESYATLRRYAPQFLGVLKLRAAPAAKGVLDAIDMLRGMNSDSARKVPADAPTAFIKPRWAKLVLTDDGIDRRYYELCALSELKNALRSGDVWVQGSRQFKDFDEYLVPVEKFATLKLASELPLAVATDCDQYLHDRLELLEAQLATVNRMAAANDLPDAIITTASGLKITPLDAAVPDAAQAMIDQTAMLLPHLKITELLMEVDEWTGFTRHFTHLKTSDTAKDKTLLLTTILADAINLGLTKMAESCPGTTYAKLSWLQAWHIRDETYSTALAELVNAQFRQPFAGNWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFSAKVVNVGIRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFGLMHLLGFRFAPRIRDLGETKLFIPKGDAAYDALKPMISSDRLNIKQIRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFYRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATSALRGNGTALDDTLLQYLSPLGWEHINLTGDYLWRSSAKVGAGKFRPLRPLPPA

>Tn6910

MPRRSILSAAERESLLALPDSKDDLIRHYTFNDTDLSIIRQRRGPANRLGFAVQLCYLRFPGVILGVDELPFPPLLKLVADQLKVGVESWNEYGQREQTRREHLSELQTVFGFRPFTMSHYRQAVQMLTELAMQTDKGIVLASALIGHLRRQSVILPALNAVERASAEAITRANRRIYDALAEPLADAHRRRLDDLLKRRDNGKTTWLAWLRQSPAKPNSRHMLEHIERLKAWQALDLPTGIERLVHQNRLLKIAREGGQMTPADLAKFEPQRRYATLVALATEGMATVTDEIIDLHDRILGKLFNAAKNKHQQQFQASGKAINAKVRLYGRIGQALIDAKQSGRDAFAAIEAVMSWDSFAESVTEAQKLAQPDDFDFLHRIGESYATLRRYAPEFLAVLKLRAAPAAKNVLDAIEVLRGMNTDNARKLPADAPTGFIKPRWQKLVMTDAGIDRRYYELCALSELKNSLRSGDIWVQGSRQFKDFEDYLVPPEKFTSLKQSSELPLAVATDCEQYLHERLTLLEAQLATVNRMAAANDLPDAIITESGLKITPLDAAVPDTAQALIDQTAMVLPHVKITELLLEVDEWTGFTRHFTHLKSGDLAKDKNLLLTTILADAINLGLTKMAESCPGTTYAKLAWLQAWHTRDETYSTALAELVNAQFRHPFAGHWGDGTTSSSDGQNFRTASKAKSTGHINPKYGSSPGRTFYTHISDQYAPFHTKVVNVGLRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFALMHLLGFRFAPRIRDLGDTKLYIPKGDAAYDALKPMIGGTLNIKHVRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFNRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERAAHALRGNGHAVDDSLLQYLSPLGWEHINLTGDYLWRSSAKIGAGKFRPLRPLQPA

>Tn6806

MPRRSILSATERESLLALPDAKDELIRHYTFNETDLSVIRQRRGAANRLGFAVQLCYLRFPGTFLGVDEPPFPPLLRMVAAQLKMPVESWSEYGQREQTRREHLVELQTVFGFKPFTMSHYRQAVHTLTELALQTDKGIVLASALVENLRRQSIILPAMNAIERASAEAITRANRRIYAALTDSLLSPHRQRLDELLKRKDGSKVTWLAWLRQSPAKPNSRHMLEHIERLKSWQALDLPAGIERQVHQNRLLKIAREGGQMTPADLAKFEVQRRYATLVALAIEGMATVTDEIIDLHDRIIGKLFNAAKNKHQQQFQASGKAINDKVRMYGRIGQALIEAKQSGSDPFAAIEAVMPWDTFAASVTEAQTLARPADFDFLHHIGESYATLRRYAPQFLGVLKLRAAPAAKGVLDAIDMLRGMNSDSARKVPADAPTAFIKPRWAKLVLTDDGIDRRYYELCALSELKNALRSGDVWVQGSRQFKDFDEYLVPVEKFATLKLASELPLAVATDCDQYLHDRLELLEAQLATVNRMAAANDLPDAIITTASGLKITPLDAAVPDAAQAMIDQTAMLLPHLKITELLMEVDEWTGFTRHFTHLKTSDTAKDKTLLLTTILADAINLGLTKMAESCPGTTYAKLSWLQAWHIRDETYSTALAELVNAQFRQPFAGNWGDGTTSSSDGQNFRTGSKAESTGHINPKYGSSPGRTFYTHISDQYAPFSAKVVNVGIRDSTYVLDGLLYHESDLRIEEHYTDTAGFTDHVFGLMHLLGFRFAPRIRDLGETKLFIPKGDAAYDALKPMISSDRLNIKQIRAHWDEILRLATSIKQGTVTASLMLRKLGSYPRQNGLAVALRELGRIERTLFILDWLQSVELRRRVHAGLNKGEARNALARAVFFYRLGEIRDRSFEQQRYRASGLNLVTAAIVLWNTVYLERATSALRGNGTALDDTLLQYLSPLGWEHINLTGDYLWRSSAKVGAGKFRPLRPLPPA