**Protein sequences of *Arabidopsis thaliana* and *P. mume***

>ANAC001

MEDQVGFGFRPNDEELVGHYLRNKIEGNTSRDVEVAISEVNICSYDPWNLRFQSKYKSRDAMWYFFSRRENNKGNRQSRTTVSGKWKLTGESVEVKDQWGFCSEGFRGKIGHKRVLVFLDGRYPDKTKSDWVIHEFHYDLLPEHQRTYVICRLEYKGDDADILSAYAIDPTPAFVPNMTSSAGSVVNQSRQRNSGSYNTYSEYDSANHGQQFNENSNIMQQQPLQGSFNPLLEYDFANHGGQWLSDYIDLQQQVPYLAPYENESEMIWKHVIEENFEFLVDERTSMQQHYSDHRPKKPVSGVLPDDSSDTETGSMIFEDTSSSTDSVGSSDEPGHTRIDDIPSLNIIEPLHNYKAQEQPKQQSKEKVISSQKSECEWKMAEDSIKIPPSTNTVKQSWIVLENAQWNYLKNMIIGVLLFISVISWIILVG

>ANAC002

MSELLQLPPGFRFHPTDEELVMHYLCRKCASQSIAVPIIAEIDLYKYDPWELPGLALYGEKEWYFFSPRDRKYPNGSRPNRSAGSGYWKATGADKPIGLPKPVGIKKALVFYAGKAPKGEKTNWIMHEYRLADVDRSVRKKKNSLRLDDWVLCRIYNKKGATERRGPPPPVVYGDEIMEEKPKVTEMVMPPPPQQTSEFAYFDTSDSVPKLHTTDSSCSEQVVSPEFTSEVQSEPKWKDWSAVSNDNNNTLDFGFNYIDATVDNAFGGGGSSNQMFPLQDMFMYMQKPY>A>NAC003

METPVGLRFCPTDEEIVVDYLWPKNSDRDTSHVDRFINTVPVCRLDPWELPCQSRIKLKDVAWCFFRPKENKYGRGDQQMRKTKSGFWKSTGRPKPIMRNRQQIGEKKILMFYTSKESKSDWVIHEYHGFSHNQMMMTYTLCKVMFNGGMREKSSSSPSSSGVSGIEQSRRDSLIPQLVNNSEGSSLHREDPSQFGDVLQEAPIEDAKLTEELVKWLMNDEDDAQIEDAIPIEEWETWLNDIDDAKEKSIMFMHDNRSDYRPPNSLTGVFSDDVSSDDNDSDLLTPKTNSIQTSSTCDSFGSSNHRIDQIKDLQESPTSTINLVSLTQEVSQALITSIDTAEKKKNPYDDAQGTEIGEHKLGQETIKKKRAGFFHRMIQKFVKKIHLCSSISRT

>ANAC004

MMNPVGFRFRPNDEEIVDHYLRPKNLDSDTSHVDEVISTVDICSFEPWDLPSKSMIKSRDGVWYFFSVKEMKYNRGDQQRRRTNSGFWKKTGKTMTVMRKRGNREKIGEKRVLVFKNRDGSKTDWVMHEYHATSLFPNQMMTYTVCKVEFKGEETEISSSSTGSEIEQIHSLIPLVNSSGGSEGSSFHSQELQNSSQSGVFANVQGESQIDDATTPIEEEWKTWLNNDGDEQRNIMFMQDHRSDYTPLKSLTGVFSDDSSDDNDSDLISPKTNSIGTSSTCASFASSNHQIDQTQHSPDSTVQLVSLTQEVSQGPGQVTVIREHKLGEESVKKKRASFVYRMIHRLVKKIHQCYSISRT

>NAC005

MANPVGFRFRPTDGEIVDIYLRPKNLESNTSHVDEVISTVDICSFDPWDLPSHSRMKTRDQVWYFFGRKENKYGKGDRQIRKTKSGFWKKTGVTMDIMRKTGDREKIGEKRVLVFKNHGGSKSDWAMHEYHATFSSPNQIMTYTLCKVKFKGERREFSVATGSGIKHTHSLIPPTNNSGVLSVETEGSLFHSQESQNPSQFSGFLDVDALDRDFCNILSDDFKGFFNDDDEQSKIVSMQDDRNNHTPQKPLTGVFSDHSTDGSDSDPISATTISIQTLSTCPSFGSSNPLYQITDLQESPNSIKLVSLAQEVSKTPGTGIDNDAQGTEIGEHKLGQETIKNKRAGFFHRMIQKFVKKIHLRT

>ANAC006

MKILPVGSRFCPTDLGLVRLYLRNKVERNQSSFITTMDIHQDYPWLLPHVNNPLFNNNEWYYFVPLTERGGKILSVHRKVAARGGSEGGTWRSNDGKKEIKDGHMQKGDGLRASDDLQKVVLCRIRYKKEANVNEFGLVNHQAHQTQDALTGFADQLEMMLEGQEDREQKEEADLTGFADSLETMLEGQEDHEQPEDADLTGFADSLETMLEGHEDREQPEEAELTVTQQQQQQQQQQQRQEDCDVTQEQEKDDVMVLINNPNDALALGNYEIIDLTRVDK

>VND4\_NAC007

MNSFSHVPPGFRFHPTDEELVDYYLRKKVASKRIEIDFIKDIDLYKIEPWDLQELCKIGHEEQSDWYFFSHKDKKYPTGTRTNRATKAGFWKATGRDKAIYLRHSLIGMRKTLVFYKGRAPNGQKSDWIMHEYRLETDENGTPQEEGWVVCRVFKKRLAAVRRMGDYDSSPSHWYDDQLSFMASELETNGQRRILPNHHQQQQHEHQQHMPYGLNASAYALNNPNLQCKQELELHYNHLVQRNHLLDESHLSFLQLPQLESPKIQQDNSNCNSLPYGTSNIDNNSSHNANLQQSNIAHEEQLNQGNQNFSSLYMNSGNEQVMDQVTDWRVLDKFVASQLSNEEAATASASIQNNAKDTSNAEYQVDEEKDPKRASDMGEEYTASTSSSCQIDLWK

>ANAC008

MAGRSWLIDSNRIATKIMSASASSDPRQVVWKSNPSRHCPKCQHVIDNSDVVDDWPGLPRGVKFDPSDPEIIWHLLAKSGLSGLSSHPFIDEFIPTVNQDDGICYTHPKNLPGVKSDGTVSHFFHKAIKAYSTGTRKRRKIHDDDFGDVRWHKTGRTKPVVLDGVQRGCKKIMVLYGGKAVKTNWVMHQYHLGIEEDEKEGDYVVSKIFYQQPQQLVVKRGDKAEQEVSEDIFAAVTPTADPVTPKLATPEPRNAVRICSDSHIASDYVTPSDYVSAHEVSLAETSEVMCMEDEVQSIQPNHERPSSGPELEHGLENGAKEMLDDKEEQEKDRDNENQGEEDPTWFDSGSQFILNSQQLVEALSLCDDLLGSQDREENTNSGSLKDKQPCIADYAHLGPEDFKRDLEECQKIVLDPSNIELDTPPEFRLSQLEFGSQDSFLAWGTGKTD

>ANAC009

MAADPSEMGDRNNDGDQKMEDVLLPGFRFHPTDEELVSFYLKRKVQHNPLSIELIRQLDIYKYDPWDLPKFAMTGEKEWYFYCPRDRKYRNSSRPNRVTGAGFWKATGTDRPIYSSEGNKCIGLKKSLVFYKGRAAKGVKTDWMMHEFRLPSLSEPSPPSKRFFDSPVSPNDSWAICRIFKKTNTTTLRALSHSFVSSLPPETSTDTMSNQKQSNTYHFSSDKILKPSSHFQFHHENMNTPKTSNSTTPSVPTISPFSYLDFTSYDKPTNVFNPVSCLDQQYLTNLFLATQETQPQFPRLPSSNEIPSFLLNTSSDSTFLGEFTSHIDLSAVLAQEQCPPLVSLPQEYQETGFEGNGIMKNMRGSNEDHLGDHCDTLRFDDFTSTINENHRHHQDLKQNMTLLESYYSSLSSINSDLPACFSSTT

>ANAC010

MSWCDGSDDNYDLNLERVSNTDHPSVQLKDQSQSCVTSRPDSKISAETPITTCPSCGHKLHHHQDDQVGSIKDLPSLPAGVKFDPSDKEILMHLEAKVSSDKRKLHPLIDEFIPTLEGENGICYTHPEKLPGVSKDGQVRHFFHRPSKAYTTGTRKRRKVSTDEEGHETRWHKTGKTRPVLSQSGETGFKKILVLYTNYGRQKKPEKTNWVMHQYHLGSSEDEKDGEPVLSKVFYQTQPRQCGSMEPKPKNLVNLNRFSYENIQAGFGYEHGGKSEETTQVIRELVVREGDGSCSFLSFTCDASKGKESFMKNQ

>ANAC011

MVGSFLPPGFRFYPTDEELVGYYLHRRNEGLEIELEIIPLMDLYKFDPWELPEKSFLPNRDMEWFFFCHRDRKYQNGSRINRATKSGYWKATGKDRKIVCHSSSSSSSSSITGCRKTLVFYMGRAPFGGRTEWVMHEYRLFDNDTSQGSLNFKGDFALCRVIKRNEHTLKKCEIISPEVSDESLSNNVNNFCQASDLEKGSCDASNTRLSSPDFILESSFQGNSHSKTEEDSGFQVFTLPEFEYPLEVFADLNFDLEMEDPFMFDYHPEPHMNNEVMSHHIRG

>ANAC012\_SND1

MADNKVNLSINGQSKVPPGFRFHPTEEELLHYYLRKKVNSQKIDLDVIREVDLNKLEPWDIQEECRIGSTPQNDWYFFSHKDKKYPTGTRTNRATVAGFWKATGRDKIICSCVRRIGLRKTLVFYKGRAPHGQKSDWIMHEYRLDDTPMSNGYADVVTEDPMSYNEEGWVVCRVFRKKNYQKIDDCPKITLSSLPDDTEEEKGPTFHNTQNVTGLDHVLLYMDRTGSNICMPESQTTTQHQDDVLFMQLPSLETPKSESPVDQSFLTPSKLDFSPVQEKITERPVCSNWASLDRLVAWQLNNGHHNPCHRKSFDEEEENGDTMMQRWDLHWNNDDNVDLWSSFTESSSSLDPLLHLSV

>ANAC13

MDLSVENGGLAPGFRFHPTDEELVVYYLKRKIRRKKLRVEAIGETDVYKFDPEELPEKALYKTRDRQWFFFSLRDRKHGSRSSRATERGYWKATGKDRVIHCDSRPVGEKKTLVFHRGRAPNGERTNWVMHEYTLHKEELKRCGGEDVKDAYVLYKIYKKSGSGPKNGEQYGAPFIEEEWAEDDDDDVDEPANQLVVSASVDNSLWGKGLNQSELDDNDIEELMSQVRDQSGPTLQQNGVSGLNSHVDTYNLENLEEDMYLEINDLMEPEPEPTSVEVMENNWNEDGSGLLNDDDFVGADSYFLDLGVTNPQLDFVSGDLKNGFAQSLQVNTSLMTYQANNNQFQQQSGKNQASNWPLRNSYTRQINNGSSWVQELNNDGLTVTRFGEAPGTGDSSEFLNPVPSGISTTNEDDPSKDESSKFASSVWTFLESIPAKPAYASENPFVKLNLVRMSTSGGRFRFTSKSTGNNVVVMDSDSAVKRNKSGGNNDKKKKKNKGFFCLSIIGALCALFWVIIGTMGGSGRPLLW

>ANAC014

MNQIKNKTLPEMTTEQALLSMEALPLGFRFRPTDEELINHYLRLKINGRDLEVRVIPEIDVCKWEPWDLPGLSVIKTDDQEWFFFCPRDRKYPSGHRSNRATDIGYWKATGKDRTIKSKKMIIGMKKTLVFYRGRAPRGERTNWIMHEYRATDKELDGTGPGQNPYVLCRLFHKPSDSCDPAHCEEIEKVNFTPTTTTRCSPDDTSSEMVQETATSGVHALDRSDDTERCLSDKGNNDVKPDVSVINNTSVNHAETSRAKDRNLGKTLVEENPLLRDVPTLHGPILSEKSYYPGQSSIGFATSHMDSMYSSDFGNCDYGLHFQDGASEQDASLTDVLDEVFHNHNESSNDRKDFVLPNMMHWPGNTRLLSTEYPFLKDSVAFVDGSAEVSGSQQFVPDILASRWVSEQNVDSKEAVEILSSTGSSRTLTPLHNNVFGQYASSSYAAIDPFNYNVNQPEQSSFEQSHVDRNISPSNIFEFKARSRENQRDLDSVVDQGTAPRRIRLQIEQPLTPVTNKKERDADNYEEEDEVQSAMSKVVEEEPANLSAQGTAQRRIRLQTRLRKPLITLNNTKRNSNGREGEASHRKCEMQEKEDISSSSSWQKQKKSLVQFSSVVIIVAVIVVLVEIWKESRDAKCSFLFHQLDSFKGMFT

>ANAC015

MSSSNGGVPPGFRFHPTDEELLHYYLKKKISYEKFEMEVIKEVDLNKIEPWDLQDRCKIGSTPQNEWYFFSHKDRKYPTGSRTNRATHSGFWKATGRDKCIRNSYKKIGMRKTLVFYKGRAPHGQKTDWIMHEYRIEDTEDDPCEDGWVVCRVFKKKNLFKVGNDVGSNISNNRLEARSFIRRESPYQGISMFELNKPEEISVHQYPQPPMFQPHHKPLSIGYDYSLALLPRESEYQQACQPSGVEVGTCKAVSEWGIVNCNMVSHEDSSRAMRFEDDGNNTSSTVQPPSNLLSLRGENGFLGLF

>ANAC016

MVDSSRDSCFKAGKFSAPGFRFHPTDEELVVYYLKRKICCKKLRVNAIGVVDVYKVDPSELPGNFQHLLIDFDSCLSMLKTGDRQWFFFTPRNRKYPNAARSSRGTATGYWKATGKDRVIEYNSRSVGLKKTLVFYRGRAPNGERTDWVMHEYTMDEEELGRCKNAKEYYALYKLYKKSGAGPKNGEQYGAPFQEEEWVDSDSEDADSVAVPDYPVVRYENGPCVDDTKFCNPVKLQLEDIEKLLNEIPDAPGVNQRQFDEFVGVPQGNSAEVIQSTLLNNSSGEYIDPRTNGMFLPNGQLYNRDSSFQSHLNSFEATSGMAPLLDNEKEEYIEMNDLLIPELGASSTEKSTEFLNHGEFGDVNEYDQLFNDISVFQGTSTDLSCLSNFTNNTSGQRQQLLYEQFQYQTPENQLNNYMHPSTTLNQFTDNMWFKDDQAALYVQPPQSSSGAFTSQSTGVMPESMNPTMSVNPQYKEGQNGGGTRSQFSSALWELLESIPSTPASACEGPLNQTFVRMSSFSRIRFNGTSVTSRKVTVAKKRISNRGFLLLSIMGALCAIFWVFKATVGVMGRPLLS

>NAC017

MADSSPDSCFKGGKFSAPGFRFHPTDEELVMYYLKRKICRKRLRVNVIGVVDVYKMDPEELPGQSMLKTGDRQWFYFTPRSRKYPNAARSNRGTENGYWKATGKDRVIEYNSRSVGLKKTLVFYRGRAPSGERTDWVMHEYTMDEDELGRCKNPQEYYALYKLFKKSGAGPKNGEQYGAPFQEEEWVDDDNEDVNAIAVAVPEQPVVRYEDARRVDERRLFNPVILQLEDIDELLNGIPNAPGVPQRCIPQVNSEEELQSTLVNNSAREFLPNGQQYNRPSSFDSLETAEVTSAPLVFEKEDFIEMDDLLLIPEFGASSTEKAAQFSNHGEFDDFNEFDQLFHDVSMSLDMEPIDQGTSANLSSLSDSANYTSDQKQQLLYQQFQDQTPENQLNNIMDPSTTLNQITSDIWFEDDQAILFDQQQSFSGAFASPSSGVMPDSTNPTMSVNAQGHEIQNGGGTTSQFSSALWALMDSIPSTPASACEGPLNRTFVRMSSFSRMRFNGKANGTPVSTTIAKKGIRNRGFLLLSIVGALCAIFWVLVATVRVSGRSLLLKD

> ANAC018

MESTDSSGGPPPPQPNLPPGFRFHPTDEELVIHYLKRKADSVPLPVAIIADVDLYKFDPWELPAKASFGEQEWYFFSPRDRKYPNGARPNRAATSGYWKATGTDKPVISTGGGGSKKVGVKKALVFYSGKPPKGVKSDWIMHEYRLTDNKPTHICDFGNKKNSLRLDDWVLCRIYKKNNSTASRHHHHLHHIHLDNDHHRHDMMIDDDRFRHVPPGLHFPAIFSDNNDPTAIYDGGGGGYGGGSYSMNHCFASGSKQEQLFPPVMMMTSLNQDSGIGSSSSPSKRFNGGGVGDCSTSMAATPLMQNQGGIYQLPGLNWYS

>ANAC019

MGIQETDPLTQLSLPPGFRFYPTDEELMVQYLCRKAAGYDFSLQLIAEIDLYKFDPWVLPNKALFGEKEWYFFSPRDRKYPNGSRPNRVAGSGYWKATGTDKIISTEGQRVGIKKALVFYIGKAPKGTKTNWIMHEYRLIEPSRRNGSTKLDDWVLCRIYKKQSSAQKQVYDNGIANAREFSNNGTSSTTSSSSHFEDVLDSFHQEIDNRNFQFSNPNRISSLRPDLTEQKTGFHGLADTSNFDWASFAGNVEHNNSVPELGMSHVVPNLEYNCGYLKTEEEVESSHGFNNSGELAQKGYGVDSFGYSGQVGGFGFM

>ANAC020

MAPMSLPPGFRFHPTDEELVAYYLDRKVNGQAIELEIIPEVDLYKCEPWDLPEKSFLPGNDMEWYFYSTRDKKYPNGSRTNRATRAGYWKATGKDRTVESKKMKMGMKKTLVYYRGRAPHGLRTNWVMHEYRLTHAPSSSLKESYALCRVFKKNIQIPKRKGEEEEAEEESTSVGKEEEEEKEKKWRKCDGNYIEDESLKRASAETSSSELTQGVLLDEANSSSIFALHFSSSLLDDHDHLFSNYSHQLPYHPPLQLQDFPQLSMNEAEIMSIQQDFQCRDSMNGTLDEIFSSSATFPASL

> ANAC021

MACVGGKDWYFYSQRDRKYATGLRTNRATATGYWKATGKDRTILRKGKLVGMRKTLVFYQGRAPRGRKTDWVMHEFRLQGSHHPPNHSLSSPKEDWVLCRVFHKNTEGVICRDNMGSCFDETASASLPPLMDPYINFDQEPSSYLSDDHHYIINEHVPCFSNLSQNQTLNSNLTNSVSELKIPCKNPNPLFTGGSASATLTGLDSFCSSDQMVLRALLSQLTKIDGSLGPKESQSYGEGSSESLLTDIGIPSTVWNC

> ANAC022

METEEEMKESSISMVEAKLPPGFRFHPKDDELVCDYLMRRSLHNNHRPPLVLIQVDLNKCEPWDIPKMACVGGKDWYFYSQRDRKYATGLRTNRATATGYWKATGKDRTILRKGKLVGMRKTLVFYQGRAPRGRKTDWVMHEFRLQGSHHPPNHSLSSPKEDWVLCRVFHKNTEGVICRDNMGSCFDETASASLPPLMDPYINFDQEPSSYLSDDHHYIINEHVPCFSNLSQNQTLNSNLTNSVSELKIPCKNPNPLFTGGSASATLTGLDSFCSSDQMVLRALLSQLTKIDGSLGPKESQSYGEGSSESLLTDIGIPSTVWNC

>ANAC023

MKVEDEATYELIKDELMKAEDEATYWLIKEELIKAEDDVIISRYLKRMIVNGDSWPDHFIEDVDVFNKNPNEEFHSQSPRFVIVKPRTENCGRTDGCQSGCWRIIGRDKLIKSKETGKILGFKKILKFCLKKKPREYKRSWVMEEYRLNNNLNCKQDHVICKIRFMFDAEISFLLAKHFSCLSTRSPLPANQLLPAYGVCFFDSEAEGAFYLETIIGYDGNTWPSYVTNDVYRLHPLTLVDPQDDKFKEFGTCIFANRTKTCGKTDECDGGGCWRIVEGHRVIKSKGKVLGYRRIFQFSENEEPRNVCEGEDPKKTAWFIEEYRPDENNKKDKVLCVIKFLIPLNQR

>ANAC024

MEEDAAFDLLKAELLNAEDDAIISRYLKRMVVNGDSWPDHFIEDADVFNKNPNVEFDAESPSFVIVKPRTEACGKTDGCETGCWRIMGRDKPIKSTETVKIQGFKKILKFCLKRKPRGYKRSWVMEEYRLTNNLNWKQDHVICKIRFMFEAEISFLLAKHFYTTSESLPRNELLPAYGFLSSDKQLEDVSYPVTIMTSEGNDWPSYVTNNVYCLHPLELVDLQDRMFNDYGTCIFANKTCGKTDRCINGGYWKILHRDRLIKSKSGIVIGFKKVFKFHETEKERYFCGGEDVKVTWTLEEYRLSVKQNKFLCVIKFTYDN

>ANAC025

MENMGDSSIGPGHPHLPPGFRFHPTDEELVVHYLKKKADSVPLPVSIIAEIDLYKFDPWELPSKASFGEHEWYFFSPRDRKYPNGVRPNRAATSGYWKATGTDKPIFTCNSHKVGVKKALVFYGGKPPKGIKTDWIMHEYRLTDGNLSTAAKPPDLTTTRKNSLRLDDWVLCRIYKKNSSQRPTMERVLLREDLMEGMLSKSSANSSSTSVLDNNDNNNNNNEEHFFDGMVVSSDKRSLCGQYRMGHEASGSSSFGSFLSSKRFHHTGDLNNDNYNVSFVSMLSEIPQSSGFHANGVMDTTSSLADHGVLRQAFQLPNMNWHS

> ANAC026

MNSFSQVPPGFRFHPTDEELVDYYLRKKVASKRIEIDIIKDVDLYKIEPCDLQELCKIGNEEQSEWYFFSHKDKKYPTGTRTNRATKAGFWKATGRDKAIYIRHSLIGMRKTLVFYKGRAPNGQKSDWIMHEYRLETSENGTPQEEGWVVCRVFKKKLAATVRKMGDYHSSPSQHWYDDQLSFMASEIISSSPRQFLPNHHYNRHHHQQTLPCGLNAFNNNNPNLQCKQELELHYNQMVQHQQQNHHLRESMFLQLPQLESPTSNCNSDNNNNTRNISNLQKSSNISHEEQLQQGNQSFSSLYYDQGVEQMTTDWRVLDKFVASQLSNDEEAAAVVSSSSHQNNVKIDTRNTGYHVIDEGINLPENDSERVVEMGEEYSNAHAASTSSSCQIDL

>ANAC027

MQAEEIICRVSDEEIIENYLRPKINGETSSIPRYVVELAEELYTVEPWLLPRQTAPILNPGEWFYFGKRNRKYSNLEGVHCEGSWILEDGCIAVLSKETGEEIGGTTRFRYYYRNKGDKESRLKMSNWFMREYRLYYKSRRVFNGRQVFCIITCNDEHFIE

>ANAC028\_NAC028

MAPVSMPPGFRFHPTDEELVIYYLKRKINGRTIELEIIPEIDLYKCEPWDLPGKSLLPSKDLEWFFFSPRDRKYPNGSRTNRATKAGYWKATGKDRKVTSHSRMVGTKKTLVYYRGRAPHGSRTDWVMHEYRLEEQECDSKSGIQDAYALCRVFKKSALANKIEEQHHGTKKNKGTTNSEQSTSSTCLYSDGMYENLENSGYPVSPETGGLTQLGNNSSSDMETIENKWSQFMSHDTSFNFPPQSQYGTISYPPSKVDIALECARLQNRMLPPVPPLYVEGLTHNEYFGNNVANDTDEMLSKIIALAQASHEPRNSLDSWDGGSASGNFHGDFNYSGEKVSCLEANVEAVDMQEHHVNFKEERLVENLRWVGVSSKELEKSFVEEHSTVIPIEDIWRYHNDNQEQEHHDQDGMDVNNNNGDVDDAFTLEFSENEHNENLLDKNDHETTSSSCFEVVKKVEVSHGLFVTTRQVTNTFFQQIVPSQTVIVYINPTDGNECCHSMTSKEEVHVRKKINPRINGVSSTVLGQWRKFAHVIGFIPMLLLMRCVHRGNSNKNRGSEGYSRQPTRGDCNNRGTILMMENAVVRRKIWKKKKEKNMVDEQGFRFQDSFVLKKLGLSLAIILAVSTISLI

> ANAC029

MEVTSQSTLPPGFRFHPTDEELIVYYLRNQTMSKPCPVSIIPEVDIYKFDPWQLPEKTEFGENEWYFFSPRERKYPNGVRPNRAAVSGYWKATGTDKAIHSGSSNVGVKKALVFYKGRPPKGIKTDWIMHEYRLHDSRKASTKRNGSMRLDEWVLCRIYKKRGASKLLNEQEGFMDEVLMEDETKVVVNEAERRTEEEIMMMTSMKLPRTCSLAHLLEMDYMGPVSHIDNFSQFDHLHQPDSESSWFGDLQFNQDEILNHHRQAMFKF

>ANAC030

MDNIMQSSMPPGFRFHPTEEELVGYYLDRKINSMKSALDVIVEIDLYKMEPWDIQARCKLGYEEQNEWYFFSHKDRKYPTGTRTNRATAAGFWKATGRDKAVLSKNSVIGMRKTLVYYKGRAPNGRKSDWIMHEYRLQNSELAPVQEEGWVVCRAFRKPIPNQRPLGYEPWQNQLYHVESSNNYSSSVTMNTSHHIGASSSSHNLNQMLMSNNHYNPNNTSSSMHQYGNIELPQLDSPSLSPSLGTNKDQNESFEQEEEKSFNCVDWRTLDTLLETQVIHPHNPNILMFETQSYNPAPSFPSMHQSYNEVEANIHHSLGCFPDS

> ANAC031

MMLAVEDVLSELAGEERNERGLPPGFRFHPTDEELITFYLASKIFHGGLSGIHISEVDLNRCEPWELPEMAKMGEREWYFYSLRDRKYPTGLRTNRATTAGYWKATGKDKEVFSGGGGQLVGMKKTLVFYKGRAPRGLKTKWVMHEYRLENDHSHRHTCKEEWVICRVFNKTGDRKNVGLIHNQISYLHNHSLSTTHHHHHEALPLLIEPSNKTLTNFPSLLYDDPHQNYNNNNFLHGSSGHNIDELKALINPVVSQLNGIIFPSGNNNNDEDDFDFNLGVKTEQSSNGNEIDVRDYLENPLFQEASYGLLGFSSSPGPLHMLLDSPCPLGFQL

>ANAC032

MMKSGADLQFPPGFRFHPTDEELVLMYLCRKCASQPIPAPIITELDLYRYDPWDLPDMALYGEKEWYFFSPRDRKYPNGSRPNRAAGTGYWKATGADKPIGRPKPVGIKKALVFYSGKPPNGEKTNWIMHEYRLADVDRSVRKKNSLRLDDWVLCRIYNKKGVIEKRRSDIEDGLKPVTDTCPPESVARLISGSEQAVSPEFTCSNGRLSNALDFPFNYVDAIADNEIVSRLLGGNQMWSTTLDPLVVRQGTF

> ANAC033

MEIGSSSTVAGGGQLSVPPGFRFHPTEEELLYYYLKKKVSYEPIDLDVIREVDLNKLEPWELKEKCRIGSGPQNEWYFFSHKDKKYPTGTRTNRATAAGFWKATGRDKSIHLNSSKKIGLRKTLVFYTGRAPHGQKTEWIMHEYRLDDSENEIQEDGWVVCRVFKKKNHFRGFHQEQEQDHHHHHQYISTNNDHDHHHHIDSNSNNHSPLILHPLDHHHHHHHIGRQIHMPLHEFANTLSHGSMHLPQLFSPDSAAAAAAAAASAQPFVSPINTTDIECSQNLLRLTSNNNYGGDWSFLDKLLTTGNMNQQQQQQVQNHQAKCFGDLSNNDNNDQADHLGNNNGGSSSSPVNQRFPFHYLGNDANLLKFPK

>ANAC034 MAIVSSTTSIIPMSNQVNNNEKGIEDNDHRGGQESHVQNEDEADDHDHDMVMPGFRFHPTEEELIEFYLRRKVEGKRFNVELITFLDLYRYDPWELPAMAAIGEKEWYFYVPRDRKYRNGDRPNRVTTSGYWKATGADRMIRSETSRPIGLKKTLVFYSGKAPKGTRTSWIMNEYRLPHHETEKYQKAEISLCRVYKRPGVEDHPSVPRSLSTRHHNHNSSTSSRLALRQQQHHSSSSNHSDNNLNNNNNINNLEKLSTEYSGDGSTTTTTTNSNSDVTIALANQNIYRPMPYDTSNNTLIVSTRNHQDDDETAIVDDLQRLVNYQISDGATTLMPQTQAALAMNMIPAGTIPNNALWDMWNPIVPDGNRDHYTNIPFK

> ANAC035

MAIVSSTTSIIPMSNQVNNNEKGIEDNDHRGGQESHVQNEDEADDHDHDMVMPGFRFHPTEEELIEFYLRRKVEGKRFNVELITFLDLYRYDPWELPAMAAIGEKEWYFYVPRDRKYRNGDRPNRVTTSGYWKATGADRMIRSETSRPIGLKKTLVFYSGKAPKGTRTSWIMNEYRLPHHETEKYQKAEISLCRVYKRPGVEDHPSVPRSLSTRHHNHNSSTSSRLALRQQQHHSSSSNHSDNNLNNNNNINNLEKLSTEYSGDGSTTTTTTNSNSDVTIALANQNIYRPMPYDTSNNTLIVSTRNHQDDDETAIVDDLQRLVNYQISDGGNINHQYFQIAQQFHHTQQQNANANALQLVAAATTATTLMPQTQAALAMNMIPAGTIPNNALWDMWNPIVPDGNRDHYTNIPFK

>ANAC036

MGKDIELPGFRFHPTEEELLDFYLKNMVYGKRSSVEVIGFLNIYRHDPWDLPGLSRIGEREWYFFVPRERKHGNGGRPSRTTEKGYWKATGSDRKIISLSEPKRVIGLKKTLVFYRGRAPGGSKTDWVMNEFRMPDNCSLPKDVVLCKIYRKATSLKVLEQRAEMEAKMNQTCPNSPLSSSETISFVGKEENMMTSFRAPQVIAMEEANKIQMHQENAKTEEKQREAETKEPSSSLKLPFGSLPELQLPKPGVEWDQLLSISPWLQNLTPIVNIYW

> ANAC037

MEPMESCSVPPGFRFHPTDEELVGYYLRKKIASQKIDLDVIRDIDLYRIEPWDLQEQCRIGYEEQNEWYFFSHKDKKYPTGTRTNRATMAGFWKATGRDKAVYDKTKLIGMRKTLVFYKGRAPNGKKSDWIMHEYRLESDENAPPQEEGWVVCRAFKKRATGQAKNTETWSSSYFYDEVAPNGVNSVMDPIDYISKQQHNIFGKGLMCKQELEGMVDGINYIQSNQFIQLPQLQSPSLPLMKRPSSSMSITSMDNNYNYKLPLADEESFESFIRGEDRRKKKKQVMMTGNWRELDKFVASQLMSQEDNGTSSFAGHHIVNEDKNNNDVEMDSSMFLSEREEENRFVSEFLSTNSDYDIGICVFDN

>ANAC038

MEQGDHQQHKKEEEALPPGFRFHPTDEELISYYLVNKIADQNFTGKAIADVDLNKSEPWELPEKAKMGGKEWYFFSLRDRKYPTGVRTNRATNTGYWKTTGKDKEIFNSTTSELVGMKKTLVFYRGRAPRGEKTCWVMHEYRLHSKSSYRTSKQDEWVVCRVFKKTEATKKYISTSSSSTSHHHNNHTRASILSTNNNNPNYSSDLLQLPPHLQPHPSLNINQSLMANAVHLAELSRVFRASTSTTMDSSHQQLMNYTHMPVSGLNLNLGGALVQPPPVVSLEDVAAVSASYNGENGFGNVEMSQCMDLDGYWPSY

>ANAC039

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>ANAC040

MSKEAEMSIAVSALFPGFRFSPTDVELISYYLRRKIDGDENSVAVIAEVEIYKFEPWDLPEESKLKSENEWFYFCARGRKYPHGSQSRRATQLGYWKATGKERSVKSGNQVVGTKRTLVFHIGRAPRGERTEWIMHEYCIHGAPQDALVVCRLRKNADFRASSTQKMEDGVVQDDGYVGQRGGLEKEDKSYYESEHQIPNGDIAESSNVVEDQADTDDDCYAEILNDDIIKLDEEALKASQAFRPTNPTHQETISSESSSKRSKCGIKKESTETMNCYALFRIKNVAGTDSSWRFPNPFKIKKDDSQRLMKNVLATTVFLAILFSFFWTVLIARN

>ANAC041

MEKRSSIKNRGVLRLPPGFRFHPTDEELVVQYLRRKVTGLPLPASVIPETDVCKSDPWDLPGDCESEMYFFSTREAKYPNGNRSNRSTGSGYWKATGLDKQIGKKKLVVGMKKTLVFYKGKPPNGTRTNWVLHEYRLVDSQQDSLYGQNMNWVLCRVFLKKRSNSNSKRKEDEKEEVENEKETETEREREEENKKSTCPIFYDFMRKDTKKKRRRRRCCDLNLTPATCCCCSSSTSSSSVCSSALTHTSSNDNRQEISYRENKFCLFL

>ANAC042

MSGEGNLGKDHEEENEAPLPGFRFHPTDEELLGYYLRRKVENKTIKLELIKQIDIYKYDPWDLPRVSSVGEKEWYFFCMRGRKYRNSVRPNRVTGSGFWKATGIDKPVYSNLDCVGLKKSLVYYLGSAGKGTKTDWMMHEFRLPSTTKTDSPAQQAEVWTLCRIFKRVTSQRNPTILPPNRKPVITLTDTCSKTSSLDSDHTSHRTVDSMSHEPPLPQPQNPYWNQHIVGFNQPTYTGNDNNLLMSFWNGNGGDFIGDSASWDELRSVIDGNTKP

> ANAC043

MMSKSMSISVNGQSQVPPGFRFHPTEEELLQYYLRKKVNSIEIDLDVIRDVDLNKLEPWDIQEMCKIGTTPQNDWYFFSHKDKKYPTGTRTNRATAAGFWKATGRDKIIYSNGRRIGMRKTLVFYKGRAPHGQKSDWIMHEYRLDDNIISPEDVTVHEVVSIIGEASQDEGWVVCRIFKKKNLHKTLNSPVGGASLSGGGDTPKTTSSQIFNEDTLDQFLELMGRSCKEELNLDPFMKLPNLESPNSQAINNCHVSSPDTNHNIHVSNVVDTSFVTSWAALDRLVASQLNGPTSYSITAVNESHVGHDHLALPSVRSPYPSLNRSASYHAGLTQEYTPEMELWNTTTSSLSSSPGPFCHVSNGSG

>ANAC044

MARAWIVDGRGIAAKVKNASLSSALQIQDCGAHIKCPNCTYRIDNSNVLIPWPGLPKGVKFEPTDEDIIEFLEAKCGIGGSEPHVLIEEFIRPVTEDVGINYTHPQNLPGANKDGVSVFFFHKTVQAYGTGQRKRRKITPTLVNDEPVRWHKTGRTKPVMLSGVQRGCKKIMVLYKSARKGTKPEKSNWVLHQYHLGTEGKEIGDYVVSKITYQQQKLGENPDEGESSSGVRGGPTTPKTNTPTPPSLVDGVAGDEEAFDDLKMFDPFFEELDSIPEAALGKMWSKKARMDEEFVVNLSEDNLICDESMEASSLWENQVLPNPSLGTVGDFDGFSISDLENADLGTPPDFLTVRSCLKKTLFTFGKFNGT

>ANAC045

MAPVSLPPGFRFHPTDEELITYYLKRKINGLEIELEVIAEVDLYKCEPWDLPGKSLLPSKDQEWYFFSPRDRKYPNGSRTNRATKGGYWKATGKDRRVSWRDRAIGTKKTLVYYRGRAPHGIRTGWVMHEYRLDETECEPSAYGMQDAYALCRVFKKIVIEAKPRDQHRSYVHAMSNVSGNCSSSFDTCSDLEISSTTHQVQNTFQPRFGNERFNSNAISNEDWSQYYGSSYRPFPTPYKVNTEIECSMLQHNIYLPPLRVENSAFSDSDFFTSMTHNNDHGVFDDFTFAASNSNHNNSVGDQVIHVGNYDEQLITSNRHMNQTGYIKEQKIRSSLDNTDEDPGFHGNNTNDNIDIDDFLSFDIYNEDNVNQIEDNEDVNTNETLDSSGFEVVEEETRFNNQMLISTYQTTKILYHQVVPCHTLKVHVNPISHNVEERTLFIEEDKDSWLQRAEKITKTKLTLFSLMAQQYYKCLAIFF

>ANAC046

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>ANAC047

MISKDPRSSLPPGFRFHPTDEELILHYLRKKVSSSPVPLSIIADVDIYKSDPWDLPAKAPFGEKEWYFFSPRDRKYPNGARPNRAAASGYWKATGTDKLIAVPNGEGFHENIGIKKALVFYRGKPPKGVKTNWIMHEYRLADSLSPKRINSSRSGGSEVNNNFGDRNSKEYSMRLDDWVLCRIYKKSHASLSSPDVALVTSNQEHEENDNEPFVDRGTFLPNLQNDQPLKRQKSSCSFSNLLDATDLTFLANFLNETPENRSESDFSFMIGNFSNPDIYGNHYLDQKLPQLSSPTSETSGIGSKRERVDFAEETINASKKMMNTYSYNNSIDQMDHSMMQQPSFLNQELMMSSHLQYQG

>ANAC048

MENPVGLRFRPTDKEIVVDYLRPKNSDRDTSHVDRVISTVTIRSFDPWELPCQSRIKLKDESWCFFSPKENKYGRGDQQIRKTKSGYWKITGKPKPILRNRQEIGEKKVLMFYMSKELGGSKSDWVMHEYHAFSPTQMMMTYTICKVMFKGDVREISSSSASYGSEIEQSRDSLIPLLVNDSEEEAQIEDAIPIEEWETWLTDDGVDEQVNHIMNMKDDRNNHRPQKPLTGVLIDDSSDDDDDSDLLSPTTNSIENSSTCDSFGSSDQINLVSLTQEVSQALITSIDTPEKIKSPYDDAQGTGAGGQKLGQETREKKRAGFFHRMIQIFVKKIHQCSSISRT

>ANAC049 MYRCTFNPPEEELINYYLNNKITENDDLVGKQIAEVNILHHEPADLPGLAKIESSHTWYFISPVEKFGKLNRTKRVSRSGHWKITGNSRTIKDVDGNPIGLKKFLVFQENKRSSSSSLSTTTTQQQKTNWIIHEFHSFLPHPNKMLTENKNEDYGGDYCNGLDELLQSLEQGESSGLLFGENGHACEQDTAENSNVTM

>ANAC050

MGRESLAVVSSPPSATAPSTAVSATSLAPGFRFHPTDEELVSYYLKRKVLGKPVRFDAIGEVDIYKHEPWDLAEKILCSYLALNCFKNFVFACATVMFACATVMFALFSKLKTRDQEWYFFSALDKKYGNGARMNRATNKGYWKATGKDREIRRDIQLLGMKKTLVFHSGRAPDGLRTNWVMHEYRLVEYETETNGSLLQDAYVLCRVFHKNNIGPPSGNRYAPFMEEEWADGGGALIPGIDVRVRVEALPQANGNNQMDQWADLLKLHNSIKFAITFCRTQLNLTALSNERCSTREIFIVFWLICKEMHSASKDLININELPRDATPMDIEPNQQNHHESAFKPQESNNHSGYEEDEDTLKREHAEEDERPPSLCILNKEAPLPLLQYKRRRQNESNNNSSRNTQDHCSSTITTVDNTTTLISSSAAAATNTAISALLEFSLMGISDKKENQQKEETSPPSPIASPEEKVNDLQKEVHQMSVERETFKLEMMSAEAMISILQSRIDALRQENEELKKKNASGQAS

>ANAC051

MGRESVAVVTAPPSATAPGTASVATSLAPGFRFHPTDEELVSYYLKRKVLGQPVRFDAIGEVDIYKHEPWDLAVFSRLKTRDQEWYFYSALDKKYGNGARMNRATNRGYWKATGKDREIRRDILLLGMKKTLVFHSGRAPDGLRTNWVMHEYRLVEYETEKNGNLVQDAYVLCRVFHKNNIGPPSGNRYAPFMEEEWADDEGALIPGIDVKLRLEPPPVANGNDQMDQIIYASSGVHL

>ANAC052

MGRESVAVVTAPPSATAPGTASVATSLAPGFRFHPTDEELVSYYLKRKVLGQPVRFDAIGEVDIYKHEPWDLAVFSRLKTRDQEWYFYSALDKKYGNGARMNRATNRGYWKATGKDREIRRDILLLGMKKTLVFHSGRAPDGLRTNWVMHEYRLVEYETEKNGNLVQDAYVLCRVFHKNNIGPPSGNRYAPFMEEEWADDEGALIPGIDVKLRLEPPPVANGNDQMDQEIQSASKSLININEPPRETAPLDIESDQQNHHENDLKPEEHNNNNNYDENEETLKREQMEEEERPPRPVCVLNKEAPLPLLQYKRRRQSESNNNSSRNTQDHCSSTTTTVDNTTTLISSSAAATNTAISALLEFSLMGISDKKEKPQQPLRPHKEPLPPQTPLASPEEKVNDLQKEIHQMSVERETFKLEMMSAEAMISILQSRIDALRQENEELKKNNANGQ

>ANAC053

MGRGSVTSLAPGFRFHPTDEELVRYYLKRKICNKPFKFDAISVTDVYKSEPWDLPDKSRLKSRDLEWYFFSMLDKKYRNGSKTNRATEMGYWKTTGKDREILNGSKVVGMKKTLVYHKGRAPRGERTNWVMHEYRLVDQDLDKTGVHQDAFVLCRIFQKSGSGPKNGEQYGAPFVEEEWEEEDDMTFVPDQEDLGSEDHVYVHMDDIDQKSENFVVYDAIPIPLNFIHGESSNNVETNYSDSINYIQQTGNYMDSGGYFEQPAESYEKDQKPIIRDRDGSLQNEGIGCGVQDKHSETLQSSDNIFGTDTSCYNDFPVESNYLIGEAFLDPNSNLLENDGLYLETNDLSSTQQDGFDFEDYLTFFDETFDPSQLMGNEDVFFDQEELFQEVETKELEKEETSRSKHVVEEKEKDEASCSKQVDADATEFEPDYKYPLLKKASHMLGAIPAPLANASEFPTKDAAIRLHAAQSSGSVHVTAGMITISDSNMGWSYGKNENLDLILSLGLVQGNTAPEKSGNSSAWAMLIFMCFWVLLLSVSFKVSILVSSR

> ANAC054

MDVDVFNGWGRPRFEDESLMPPGFRFHPTDEELITYYLLKKVLDSNFSCAAISQVDLNKSEPWELPEKAKMGEKEWYFFTLRDRKYPTGLRTNRATEAGYWKATGKDREIKSSKTKSLLGMKKTLVFYKGRAPKGEKSCWVMHEYRLDGKFSYHYISSSAKDEWVLCKVCLKSGVVSRETNLISSSSSSAVTGEFSSAGSAIAPIINTFATEHVSCFSNNSAAHTDASFHTFLPAPPPSLPPRQPRHVGDGVAFGQFLDLGSSGQIDFDAAAAAFFPNLPSLPPTVLPPPPSFAMYGGGSPAVSVWPFTL

>ANAC055

MGLQELDPLAQLSLPPGFRFYPTDEELMVEYLCRKAAGHDFSLQLIAEIDLYKFDPWVLPSKALFGEKEWYFFSPRDRKYPNGSRPNRVAGSGYWKATGTDKVISTEGRRVGIKKALVFYIGKAPKGTKTNWIMHEYRLIEPSRRNGSTKLDDWVLCRIYKKQTSAQKQAYNNLMTSGREYSNNGSSTSSSSHQYDDVLESLHEIDNRSLGFAAGSSNALPHSHRPVLTNHKTGFQGLAREPSFDWANLIGQNSVPELGLSHNVPSIRYGDGGTQQQTEGIPRFNNNSDVSANQGFSVDPVNGFGYSGQQSSGFGFI

> ANAC056

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>ANAC057

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>ANAC058

MEENLPPGFRFHPTDEELITHYLCRKVSDIGFTGKAVVDVDLNKCEPWDLPAKASMGEKEWYFFSQRDRKYPTGLRTNRATEAGYWKTTGKDKEIYRSGVLVGMKKTLVFYKGRAPKGEKSNWVMHEYRLESKQPFNPTNKEEWVVCRVFEKSTAAKKAQEQQPQSSQPSFGSPCDANSSMANEFEDIDELPNLNSNSSTIDYNNHIHQYSQRNVYSEDNTTSTAGLNMNMNMASTNLQSWTTSLLGPPLSPINSLLLKAFQIRNSYSFPKEMIPSFNHSSLQQGVSNMIQNASSSSQVQPQPQEEAFNMDSIW

> ANAC059

MDYKVSRSGEIVEGEVEDSEKIDLPPGFRFHPTDEELITHYLRPKVVNSFFSAIAIGEVDLNKVEPWDLPWKAKLGEKEWYFFCVRDRKYPTGLRTNRATKAGYWKATGKDKEIFKGKSLVGMKKTLVFYKGRAPKGVKTNWVMHEYRLEGKFAIDNLSKTAKNECVISRVFHTRTDGTKEHMSVGLPPLMDSSPYLKSRGQDSLAGTTLGGLLSHVTYFSDQTTDDKSLVADFKTTMFGSGSTNFLPNIGSLLDFDPLFLQNNSSVLKMLLDNEETQFKKNLHNSGSSESELTASSWQGHNSYGSTGPVNLDCVWKF

>ANAC060

MAAAPPIEPAVTTTFPGFKFSPTDIELISYYLKRKMDGLERSVEIIPEVEIYNFEPWDLPDKSIVKSDSEWFFFCARGKKYPHGSQNRRATKIGYWKATGKERNVKSGSEVIGTKRTLVFHIGRAPKGGRTEWLMHEYCMIGVSLDALVICRLRRNTEFQGSTIQKPPQPSLPLDKHVNLRNEAISESIYGWETMVDFYLSSESGQELLSEIAESSQSSQNPQVPSEEDFYADILRDEIVKLDDPAVSGNTLINVPRLQTESNTTRVLPLPDMVDKQMQSLLQKLPLQNDTGEENNISMSNCFIGIYSIKSINRARWDVVVWLLVMIAVLVFYLV

>ANAC061

MGEELSVGFRFYPTEVELLTYYLRIQLGGGNATIHSLIPILDVFSVEPTQLPNLAGERCRGDAEQWIFFVPRQEREARGGRPSRTTGSGYWKATGSPGPVFSPDNRVIGVKKTMVFYTGKAPTGRKTKWKMNEYKAVETASVSTIPKLRPEFSICRIYIKSGSSRAFDRRPTEAYAIERNLPSNGVETSSRATISTSPETSHSGGNQVDLPVNATTITQSISDMVDELSQPFWEWEQMNWS

> ANAC062

MNQNLHVLSMDSLPVGLRFRPTDEELIRYYLRRKINGHDDDVKAIREIDICKWEPWDLPDFSVIKTKDSEWLYFCPLDRKYPSGSRQNRATVAGYWKATGKDRKIKSGKTNIIGVKRTLVFHAGRAPRGTRTNWIIHEYRATEDDLSGTNPGQSPFVICKLFKKEELVLGEEDSKSDEVEEPAVSSPTVEVTKSEVSEVIKTEDVKRHDIAESSLVISGDSHSDACDEATTAELVDFKWYPELESLDFTLFSPLHSQVQSELGSSYNTFQPGSSNFSGNNNNSFQIQTQYGTNEVDTYISDFLDSILKSPDEDPEKHKYVLQSGFDVVAPDQIAQVCQQGSAVDMSNDVSVTGIQIKSRQAQPSGYTNDYIAQGNGPRRLRLQSNFNGINTKNPELQAIKREAEDTVGESIKKRCGKLMRSKNVTGFVFKKITSVKCSYGGLFRAAVVAVVFLMSVCSLTVDFRASAVS

>ANAC063

MSPPSTIAYVLPPGFKFVPNDEEVIHCYLKPYSDGNTNVLLHVPIHLVNIYESNPQTLSEEFQKGNDKEWFIITERNKVDQGLSQTKRVGYGAKRQKRVDTNGGYWHATVAAQKINAGDGVVRNKRPLAYYVGKPSEGVKTDWLMQEYSLDHSSHNNDKDYTLCKIYLTPQATKMNKEVGEEKKKQKKGEAVVSVAPVEALEEQLPCNVEYHQPLAPLDSCQPQPHDLAYQQQQFCPGPLDSYQPQPHDMENQQPHNEKLKKEEDVEQLDLHQPDQGKGC

>ANAC064

MAIPQRNKRKARSSPERLTQPPELPHNSDVPSSSSSSAADNFFSWSTKQFAFPPGYRFVPKDQELIFHYLKPFSQGNKCSLLNVPIHRVNIYESNPQHLSEKYEKGNDKDWFYISERTKTGKAGRSNKRVDNGGYWSATVAAQKINAGNGIVGYKTSLEYYVGKQSNSVKGDWLMQEYWFESSDDNNNEKVDHALCKIYLTPAAAKKKKAEEAENEKLKKEEDVEQLDLNQPDQLQLQQPHDIVYQPQYCLLPEHHQPQPFPDNFSELISFQQQPVMIPDDFEDFLAEFTKPHSLDGDEEFNNYGLFEGFFDTEGMIKH

>ANAC065

MFDFKIFTFSFAQSKYLENIREKTLTEVSTSDIELLRRNSQPFRRATPCSLTVDLQANSFTPKLQSYLMMMPGRNKRKERSWPEPQTQPQSEIPSSSSSLAADNMSPPSTIAYVLPPGFKFMPNDKEVINCYLKPYSDGNTNVLLNVPIHRVNIYESNPQTLSGRNVATLTEDIGTQKWLPKRFKAGDGVVGNKRPLAYYVGKPSEGVKTDWLMQEYSLDHSSHNTTR

> ANAC066

MNISVNGQSQVPPGFRFHPTEEELLKYYLRKKISNIKIDLDVIPDIDLNKLEPWDIQEMCKIGTTPQNDWYFYSHKDKKYPTGTRTNRATTVGFWKATGRDKTIYTNGDRIGMRKTLVFYKGRAPHGQKSDWIMHEYRLDESVLISSCGDHDVNVETCDVIGSDEGWVVCRVFKKNNLCKNMISSSPASSVKTPSFNEETIEQLLEVMGQSCKGEIVLDPFLKLPNLECHNNTTITSYQWLIDDQVNNCHVSKVMDPSFITSWAALDRLVASQLNGPNSYSIPAVNETSQSPYHGLNRSGCNTGLTPDYYIPEIDLWNEADFARTTCHLLNGSG

>ANAC067

MMKDPTGYRFSPTGEEVINHYLKNKILGKTWLVDEAISEINILNHKPSKDLPKLARIQSEDLEWYFFSPIEYTNPNKMKMKRTTGSGFWKPSGVDRKIRDKRGNGVVIGIKKTLVYHEGKSPHGVRTPWVMHEYHITCLPHHKRKYVVCQVKYKGEAAEISYEPSPSLVSDSHTVIAINGEPEPELQVEQPGKENLLGMSVDDLIEPMNQQEEPQGPHLAPNDDEFIRGLRHVDREPVEYLFANEENMDGLSIMNDLTIPMIAQQEDLILSEWEGFIAATFFSDNNNNNNLNVHQLTSFLPG

>ANAC068

MMKGLIGYRFSPTGEEVINHYLKNKLLGKYWLVDEAISEINILSHKPSKDLPKLARIQSEDLEWYFFSPIEYTNPNKMKMKRTTGSGFWKPTGVDREIRDKRGNGVVIGIKKTLVYHEGKSPHGVRTPWVMHEYHITCLPHHKRKYVVCQVKYKGEAAEISYEPSPSLVSDSHTVIAITGEPEPELQVEQPGKENLLGMSVDDLIEPMNQQEEPQGPHLAPNDDEFIRGLRHVDRGTVEYLFANEENMDGLSMNDLRIPMIVQQEDLSEWEGFNADTFFSDNNNNYNLNVHHQLTPYGDGYLNAFSGYNEGNPPDHELVMQENRNDHMPRKPVTGTIDYSSDSGSDAGSISTTSYQGTSSPNISVGSSSRHLSSCSSTDSCKDLQTCTDPSIISREIRELTQEVKQEIPRAVDAPMNNESSLVKTEKKGLFIVEDAMERNRKKPRFIYLMKMIIGNIISVLLPVKRLIPVKKL

>ANAC069

MVKDLVGYRFYPTGEELINHYLKNKILGKTWLVDEAISEINICSYDPIYLPSLSKIKSDDPVWYFFCPKEYTSAKKKVTKRTTSSGYWKATGVDRKIKDKRGNRGEIGIKKTLVYYEGRVPKGVWTPWVMHEYHITCLPQDQRNYVICQVMYKGEDGDVPSGGNNSSEPSQSLVSDSNTVRATSPTALEFEKPGQENFFGMSVDDLGTPKNEQEDFSLWDVLDPDMLFSDNNNPTVHPQAPHLTPNDDEFLGGLRHVNREQVEYLFANEDFISRPTLSMTENRNDHRPKKALSGIIVDYSSDSNSDAESISATSYQGTSSPGDDSVGSSNRQFLQTGGDEILSSCNDLQTYGEPSISSSTRQSQLTRSIIRPKQEVKQDTSRAVDSDTSIDKESSMVKTEKKSWFITEEAMERNRNNPRYIYLMRMIIGFILLLALISNIISVLQNLNPAMKFDRER

>ANAC070

MGSSSNGGVPPGFRFHPTDEELLHYYLKKKISYQKFEMEVIREVDLNKLEPWDLQERCKIGSTPQNEWYFFSHKDRKYPTGSRTNRATHAGFWKATGRDKCIRNSYKKIGMRKTLVFYKGRAPHGQKTDWIMHEYRLEDADDPQANPSEDGWVVCRVFMKKNLFKVVNEGSSSINSLDQHNHDASNNNHALQARSFMHRDSPYQLVRNHGAMTFELNKPDLALHQYPPIFHKPPSLGFDYSSGLARDSESAASEGLQYQQACEPGLDVGTCETVASHNHQQGLGEWAMMDRLVTCHMGNEDSSRGITYEDGNNNSSSVVQPVPATNQLTLRSEMDFWGYSK

>ANAC071

MGSSCLPPGFRFHPTDEELIGYYLSRKIEGLEIELEVIPVIDLYKFDPWELPGKSFLPNRDLEWFFFCPRDKKYANGSRTNRATKAGYWKATGKDRKITCKSSHVIAGYRKTLVFYEGRAPLGDRTNWFMHEYRLCDIDDHSQKSPNFKGAFALCRVVKKNELKKNSKSLKNKNEQDIGSCYSSLATSPCRDEASQIQSFKPSSTTNDSSSIWISPDFILDSSKDYPQIKEVASECFPNYHFPVTTANHHVEFPLQEMLVRS

> ANAC72

MGVREKDPLAQLSLPPGFRFYPTDEELLVQYLCRKVAGYHFSLQVIGDIDLYKFDPWDLPSKQTCFTFVGEYNCNYLGKALFGEKEWYFFSPRDRKYPNGSRPNRVAGSGYWKATGTDKIITADGRRVGIKKALVFYAGKAPKGTKTNWIMHEYRLIEHSRSHGSSKLDDWVLCRIYKKTSGSQRQAVTPVQACREEHSTNGSSSSSSSQLDDVLDSFPEIKDQSFNLPRMNSLRTILNGNFDWASLAGLNPIPELAPTNGLPSYGGYDAFRAAEGEAESGHVNRQQNSSGLTQSFGYSSSGFGVSGQTFEFRQ

>ANAC073

MTWCNDRSDVQTVERIIPSPGAAESPVASLPVSCHKTCPSCGHNFKFHEQAGIHDLPGLPAGVKFDPTDQEVLEHLEGKVRDDAKKLHPLIDEFIRTIDGENGICYTHPEKLPGVNKDGTVRHFFHRPSKAYTTGTRKRRKVHTDSDVGGETRWHKTGKTRPVLAGGRVRGYKKILVLYTNYGKQKKPEKTNWVMHQYHLGTSEEEKEGELVVSKVFYQTQPRQCGGSVAAAATAKDRPYLHGLGGGGGRHLHYHLHHNNGNGKSNGSGGTAGAGEYYHNIPAIISFNQTGIQNHLVHDSQPFIP

>ANAC074

MGLKDIGSKLPPGFRFHPSDEELVCHYLCNKIRAKSDHGDVDDDDDDVDEALKGSTDLVEIDLHICEPWELPDVAKLNAKEWYFFSFRDRKYATGYRTNRATVSGYWKATGKDRTVMDPRTRQLVGMRKTLVFYRNRAPNGIKTTWIMHEFRLECPNIPPKEDWVLCRVFNKGRDSSLQDNNYYNNDNQTQRLEVNDAPDLNYNNQLPPLLSSPPHNHQHEKMKIQVCDQWEQLMKQPSRTTGHPYHHHCHHQTIACGWEQMMIGSLSSPSSHGPDHESLLNLLYVDNNNSVNISGDHHQNYEKILLSSLDMTSLDHDKTCMGSSSDGGMVSDLHMECGGLSFETENILAFQ

>ANAC075

MNKSNPAGSVTGSDIIDAKIEEHQLCGSKKCPSCGHKLEGKPQDWVGLPAGVKFDPTDQELIEHLEAKVLAKDFKSHPLIDEFIPTIEGEDGICYTHPEKLPGVTRDGLSRHFFHRPSKAYTTGTRKRRKIQTECDNNLQGSSSSGETRWHKTGKTRPVMVNGKQKGCKKILVLYTNFGKNRKPEKTNWVMHQYHLGTHEEEKEGELVVSKIFYQTQPRQCNWSSSTSSLNAIGGGGGEASSGGGGGEYHMRRDSGTTSGGSCSSSREIINVNPPNRSDEIGGVGGGVMAVAAAAAAVAAGLPSYAMDQLSFVPFMKSFDEVARRETPQTGHATCEDVMAEQHRHRHQPSSSTSHHMAHDHHHHHHQQQQQRHHAFNISQPTHPISTIISPSTSLHHASINILDDNPYHVHRILLPNENYQTQQQLRQEGEEEHNDGKMGGRSASGLEELIMGCTSSTTHHDVKDGSSSMGNQQEAEWLKYSTFWPAPDSSDNQDHHG

>ANAC076\_VND2

MESVDQSCSVPPGFRFHPTDEELVGYYLRKKVASQKIDLDVIRDIDLYRIEPWDLQESCRIGYEERNEWYFFSHKDKKYPTGTRTNRATMAGFWKATGRDKAVYDKSKLIGMRKTLVFYKGRAPNGQKTDWIMHEYRLESDENAPPQEEGWVVCRAFKKKPMTGQAKNTETWSSSYFYDELPSGVRSVTEPLNYVSKQKQNVFAQDLMFKQELEGSDIGLNFIHCDQFIQLPQLESPSLPLTKRPVSLTSITSLEKNKNIYKRHLIEEDVSFNALISSGNKDKKKKKTSVMTTDWRALDKFVASQLMSQEDGVSGFGGHHEEDNNKIGHYNNEESNNKGSVETASSTLLSDREEENRFISGLLCSNLDYDLYRDLHV

>ANAC077

MARDSKKAGGALPAPATAMGNAAAETSLPPGFRFHPSDEELISYYLKKKVQGKPMRYDEIGEVDICKLEPWDLAVIIFLCFLALDFRYVLKTRDKEWFFFSALDKKTRTGTSMSRATKQGYWKVTGTDGKIRQGGDGKVTIGTMKTLVFHRGRSPNGLGTDWVMNEYHLAKNDEGVPQNNTGSRYAPFLEEEWDDDNGERVAIHVPDDGPLPLCVLNKEAPLPLIQYKRKRRISSSQTTQDHRSFTETIIDSTASAEPLDISERIALRALNGMLDDLEKEQEPVVVDGNKINEIQQESQLQRKKLIDLNLKEDAPSPLCVVNKETPSPLKYMIDDLEKEQEPATKRINDLVLKENDEIVVFREMQERESMKAEMEISFLEAQIDALDRKIDHPHK

>ANAC078

MGRGSVTSLAPGFRFHPTDEELVRYYLKRKVCNKPFKFDAISVTDIYKSEPWDLPDKSKLKSRDLEWYFFSMLDKKYSNGSKTNRATEKGYWKTTGKDREIRNGSRVVGMKKTLVYHKGRAPRGERTNWVMHEYRLSDEDLKKAGVPQEAYVLCRIFQKSGTGPKNGEQYGAPYLEEEWEEDGMTYVPAQDAFSEGLALNDDVYVDIDDIDEKPENLVVYDAVPILPNYCHGESSNNVESGNYSDSGNYIQPGNNVVDSGGYFEQPIETFEEDRKPIIREGSIQPCSLFPEEQIGCGVQDENVVNLESSNNNVFVADTCYSDIPIDHNYLPDEPFMDPNNNLPLNDGLYLETNDLSCAQQDDFNFEDYLSFFDDEGLTFDDSLLMGPEDFLPNQEALDQKPAPKELEKEVAGGKEAVEEKESGEGSSSKQDTDFKDFDSAPKYPFLKKTSHMLGAIPTPSSFASQFQTKDAMRLHAAQSSGSVHVTAGMMRISNMTLAADSGMGWSYDKNGNLNVVLSFGVVQQDDAMTASGSKTGITATRAMLVFMCLWVLLLSVSFKIVTMVSAR

>ANAC079

METFGVFHKEDDEQMDLPPGFRFHPTDEELITHYLHKKVLDLGFSAKAIGEVDLNKAEPWELPYKAKIGEKEWYFFCVRDRKYPTGLRTNRATQAGYWKATGKDKEIFRGKSLVGMKKTLVFYRGRAPKGQKTNWVMHEYRLDGKLSAHNLPKTAKNEWVICRVFHKTAGGKKIPISTLIRIGSYGTGSSLPPLTDSSPY

NDKTKTEPVYVPCFSNQAETRGTILNCFSNPSLSSIQPDFLQMIPLYQPQSLNISESSNPVLTQEQSVLQAMMENNRRQNFKTLSISQETGVSNTDNSSV

FEFGRKRFDHQEVPSPSSGPVDLEPFWNY

>ANAC080

MDLPPGFRFHPTDEELITHYLHKKVLDLGFSAKAIGEVDLNKAEPWELPYKAKIGEKEWYFFCVRDRKYPTGLRTNRATQAGYWKATGKDKEIFRGKSLV

GMKKTLVFYRGRAPKGQKTNWVMHEYRLDGKLSAHNLPKTAKNEWVICRVFHKTAGGKKIPISTLIRIGSYGTGSSLPPLTDSSPYNDKTKTEPVYVPCF

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SPSSGPVDLEPFWNY

>ATAF2\_ANAC081

MKSELNLPAGFRFHPTDEELVKFYLCRKCASEQISAPVIAEIDLYKFNPWELPEMSLYGEKEWYFFSPRDRKYPNGSRPNRAAGTGYWKATGADKPIGKP

KTLGIKKALVFYAGKAPKGIKTNWIMHEYRLANVDRSASVNKKNNLRLDDWVLCRIYNKKGTMEKYFPADEKPRTTTMAEQSSSPFDTSDSTYPTLQEDD

SSSSGGHGHVVSPDVLEVQSEPKWGELEDALEAFDTSMFGSSMELLQPDAFVPQFLYQSDYFTSFQDPPEQKPFLNWSFAPQG

>ANAC082

MGKTQLAPGFRFHPTDVELVRYYLKRKILGKKLLVDAIAEVDIYKFEPPDLPDMSFIRSGDLKWHFFCPREKKYASGVRANRATECGYWKTTGKERPVLCNSEVVGKIKTLVYHFGKSPRGERTDWVMHEYRLDDKVLTQMNVPQDTYVVCVLFKKDGPGPRNGAQYGAPFKEEDWSDEEVRTDVPSTSNPTNLLEPSKETTLALTAPDDSNKDCFGGMISESCVSDFLPATTNTTSELPHPSDAATTPMSTAPLAETVQTPNNDDLYSMLDLFDDDEEFLGFNNNEVRYDPGVSAPVCLEEEGIFNGLPELSSMPRTASYDLVENSELYLELQDLTAPLNPQTGLQDLTAPFNPQTGLQDLTAPFNHQTGLQDHTAPFNPQTGLQDHTAPFNHQTGLQDLTAPFNPQTGLQDLTAPFNPQTGLHDLTSPFNPQTGLQDLTAPLNPQTGNRNDPRSSSFLYNQGHFDFSGGNDDDPYGFSASMRHRPKM

>ANAC083

MDNVKLVKNGVLRLPPGFRFHPTDEELVVQYLKRKVCSSPLPASIIPEFDVCRADPWDLPGNLEKERYFFSTREAKYPNGNRSNRATGSGYWKATGIDKRVVTSRGNQIVGLKKTLVFYKGKPPHGSRTDWIMHEYRLSSSPPSSMGPTQNWVLCRIFLKKRAGNKNDDDDGDSRNLRHNNNNNSSDQIEIITTDQTDDKTKPIFFDFMRKERTTDLNLLPSSPSSDHASSGVTTEIFSSSDEETSSCNSFR

>ANAC084

MEVEKRIVVNGGMKLPIGYRFHPTEQELILHYLLPKAFASPLPSSIIPVFDLFFSHPLSFPGDQKEKQRYFFCKKREVSSNEHRIKISSGDGYWKPIGKERPIIACGKTFGIRRTLAFYETNKSSSYCNKTRWSMTEYCLAGFASAKVSGEWAVYNVYERKGSKGRKQRKSREGDDEELRCIDHFTVGSNHETGPPPPSPPTSADE

>ANAC085

MKTLHRTWIVDGPWISRNVKNASLSSALQIKDCGAYINCFNCSYRIDNSNVLTPWPGLPKGVKFEPTDEEVIEHLEAKCGIDGLKPHLLIQDFICSVTQDVGINYTHPQNLPGVSKDGTSVFFFNKTAHAYQNGQRKRRRITPTSLKDDTVRWHKTGQTKPVMLNGIQKGCKKIMVLYKSARKGFKPEKSNWVLHQYHLGTEEGEIGEYVVSKITYQQPKQQEKTIDESESSGVRGGPSTPKTSTITQVRPVISVDEDEIAFDDDSKMVLDSYAEGLENIQEASSGSTSDKIAKVGGNVSVIEDNLMSKKIEASSIPNHGNVDYGSGNFSVSDLENAELGTLPDLLSVRT

>ANAC086

MAPVSLPPGFRFHPTDEELITYYLKRKINGQEIELEIIPEVDLYKCEPWDLPGKSLIPSKDQEWFFFSPRDRKYPNGSRTNRATKGGYWKATGKDRRVSWRDRAIGTKKTLVYYRGRAPHGIRTGWVMHEYRLDESECEPSAFGMQDAYALCRVFKKIVIEAKPRDQHQQQHQPYVHTSSNISGSSSFDVCSDLEISSNTPYNTAAHIQPRFGNANAISDHDDWSQYLSQNMPTSFSDYGSPYGPYLTQSKVNTEVQCEMFQHQMSLPPLRVENSQAQTSDFSKRLHQNSGQSGFDDFTFAASNSNQFYNSNVDDHLIHIGNLDEQSYIEEQELILPSFQSNDQDLELYGGSRTNTIDNIEIDDFFSFENQAQDNDNSNVTPNSAGFEMIGEEIIVNHKMLISTRQTTEILYYQVVPSQILKIHINPVHGNEERTMLMEEDSDDSWFQKAENVAKMKLKQISLVAKRYYKCLTIIF

>ANAC087

MAVVVEEGVVLNHGGEELVDLPPGFRFHPTDEEIITCYLKEKVLNSRFTAVAMGEADLNKCEPWDLPKRAKMGEKEFYFFCQRDRKYPTGMRTNRATESGYWKATGKDKEIFKGKGCLVGMKKTLVFYRGRAPKGEKTNWVMHEYRLEGKYSYYNLPKSARDEWVVCRVFHKNNPSTTTQPMTRIPVEDFTRMDSLENIDHLLDFSSLPPLIDPSFMSQTEQPNFKPINPPTYDISSPIQPHHFNSYQSIFNHQVFGSASGSTYNNNNEMIKMEQSLVSVSQETCLSSDVNANMTTTTEVSSGPVMKQEMGMMGMVNGSKSYEDLCDLRGDLWDF

>ANAC088

MMPMTEEFYDEEEELGCFRFNPSEEELILDYLLPKLGFHQPNTIYLLEDRDNIYAKEPWRLNHTENDIFEPNEWFYFVKRTNRKVKGWKATGELKDVVSKKTGEVIGKKRNLRFYVEGDESKTSGWTMREYSSIGNQNQRLCHLKGP

>ANAC089

MDTKAVGVSKDTAASMEASTVFPGFKFSPTDVELISYYLKRKMDGLERSVEVIPDLEIYNFEPWDLPDKSIVKSDSEWFFFCARGKKYPHGSQNRRATKMGYWKATGKERDVKSGSEVIGTKRTLVFHIGRAPKGERTDWIMHEYCVKGVSLDDAMVVCRVRRNKEYNSGTSQKAPKPNSSAEKHAKVQNGATSSGSPSDWDNLVDFYLAGESGEKLLAEMAESSENLQVDNDEDFFADILRDEIINLDEAVMTGNTPNEVPTLESASMEIRVLPLPNMIDKQMSSLLEERPSQKKKGKDATESLSSCFVGLYSIKSVNKARWDVIIGVVALIAMLFYLE

>ANAC090

MADEVTIGFRFYPTEEELVSFYLRNQLEGRSDDSMHRVIPVLDVFEVEPSHLPNVAGVRCRGDAEQWFFFVPRQEREARGGRPSRTTGSGYWKATGSPGPVFSKDNKMIGAKKTMVFYTGKAPTGRKTKWKMNEYHAVDETVNASTIPKLRREFSLCRVYITTGSSRAFDRRPEGVLQTERMLTSDVAVAETSFRVESSLETSISGGEHIDVSMNTEFVDGLSEPMWDWEQLTWP

>ANAC091

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> ANAC092

MDYEASRIVEMVEDEEHIDLPPGFRFHPTDEELITHYLKPKVFNTFFSATAIGEVDLNKIEPWDLPWKAKMGEKEWYFFCVRDRKYPTGLRTNRATEAGYWKATGKDKEIFKGKSLVGMKKTLVFYKGRAPKGVKTNWVMHEYRLEGKYCIENLPQTAKNEWVICRVFQKRADGTKVPMSMLDPHINRMEPAGLPSLMDCSQRDSFTGSSSHVTCFSDQETEDKRLVHESKDGFGSLFYSDPLFLQDNYSLMKLLLDGQETQFSGKPFDGRDSSGTEELDCVWNF

>ANAC093

MAKKEKIEQVISMGGIMWEGLNSSLIKVDEALLKQQIREFEKGNDKEWFIITERNKVDQGLSQTKRVGNGAKRQKRVDTNGGYWHATVAAQKINAGDGVVGNKRPLAYYDRKPSEDVKTDWLMQEYSLDHNNDKVRLHFVQDLSYSTSNKEVGEEKKKQKKGEPVEASEGQQPCNAEYHQPLAPLDSCQPQPHDLAEQLDLHQPEQLQLQQPHDIVYQPQYCLLPEQHQLQPFPDNFSELNSFQQQPVMIPDDLEDFLAELMEPHSLDGDEESNNYGFFEGLFDTEGINDKTLH

>ANAC094

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>ANAC095

MGPTYRALPVGMRFRPSDLELAVYFLIKKALGLPMKALTVPDECNDIFSTHPRDLPGYGSEEHWYFYCKKPKNQVTRTKSYNLWIPTGEKTDVLDPKKNGGELVGIKHSFTFIENEEEEESDNKNGDEEEPPQCNWFLDEISLPLTVVDTDWTLCHIFYEKVKPEFGNLHIVESESESEEEEEDESVDKPAESLDSVKEKDGTVLPPPPATP

>ANAC096

MGSSCLPPGFRFHPTDEELIEYYLKRKVEGLEIELEVIPVIDLYSFDPWELPDKSFLPNRDMEWYFFCSRDKKYPNGFRTNRGTKAGYWKATGKDRKITSRSSSIIGYRKTLVFYKGRAPLGDRSNWIMHEYRLCDDDTSQGSQNLKGAFVLCRVAMKNEIKTNTKIRKIPSEQTIGSGESSGLSSRVTSPSRDETMPFHSFANPVSTETDSSNIWISPEFILDSSKDYPQIQDVASQCFQQDFDFPIIGNQNMEFPASTSLDQNMDEFMQNGYWTNYGYDQTGLFGYSDFS

>ANAC097

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> ANAC098

MDIPYYHYDHGGDSQYLPPGFRFHPTDEELITHYLLRKVLDGCFSSRAIAEVDLNKCEPWQLPGRAKMGEKEWYFFSLRDRKYPTGLRTNRATEAGYWKATGKDREIFSSKTCALVGMKKTLVFYKGRAPKGEKSNWVMHEYRLEGKFSYHFISRSSKDEWVISRVFQKTTLASTGAVSEGGGGGGATVSVSSGTGPSKKTKVPSTISRNYQEQPSSPSSVSLPPLLDPTTTLGYTDSSCSYDSRSTNTTVTASAITEHVSCFSTVPTTTTALGLDVNSFSRLPPPLGFDFDPFPRFVSR

NVSTQSNFRSFQENFNQFPYFGSSSASTMTSAVNLPSFQGGGGVSGMNYWLPATAEENESKVGVLHAGLDCIWNY

>ANAC099

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>ANAC100

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>ANAC101

MESLAHIPPGYRFHPTDEELVDYYLKNKVAFPGMQVDVIKDVDLYKIEPWDIQELCGRGTGEEREWYFFSHKDKKYPTGTRTNRATGSGFWKATGRDKAIYSKQELVGMRKTLVFYKGRAPNGQKSDWIMHEYRLETDENGPPHEEGWVVCRAFKKKLTTMNYNNPRTMMGSSSGQESNWFTQQMDVGNGNYYHLPDLESPRMFQGSSSSSLSSLHQNDQDPYGVVLSTINATPTTIMQRDDGHVITNDDDHMIMMNTSTGDHHQSGLLVNDDHNDQVMDWQTLDKFVASQLIMSQEEEEVNKDPSDNSSNETFHHLSEEQAATMVSMNASSSSSPCSFYSWAQNTHT

>ANAC102

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>ANAC103

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>ANAC104

MNLPPGFRFFPTDEELVVHFLHRKASLLPCHPDVIPDLDLYHYDPWDLPGKALGEGRQWYFYSRKTQERVTSNGYWGSMGMDEPIYTSSTHKKVGIKKYLTFYLGDSQTNWIMQEYSLPDSSSSSSRSSKRSSRASSSSHKPDYSKWVICRVYEQNCSEEEDDDGTELSCLDEVFLSLDDLDEVSLP

>ANAC105

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>PmNAC001

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>PmNAC002

MANSGVTQLLGFRFVPTDPEIIGFFLYKMVVANNPLTLMPPYNKVINKCNLFGNKREPSEIWRDYGGDQLDDQDLYFVSELQRNDLRIQRKTGRCGTWSETETYQDVKDEVDEIIGRKWKFQYENGNTSEDHAGWLLDEYSLFEKGCKNRTSRNCYDFDVVICRLRRKCNTDKSGKKRKCSSQDQSNKKTKRDQPTKEMKTENSVGPQIMNDESNQLMINDITTCDQDYLIDTNHKSFDIDELFVKLDRKPPLLNSQQLPQIVESLLLASVLINLMDHWKQPPMI

>PmNAC003

MANSRNVSLAFHFHPTDQEIIRSILYKMVIEGEPLNPSYHGIVHDEDLFGTKELWKIWEDYGRDQLHDQDLYFLCQLKRINYCSSRTHRRIGREGTWSQRVAPKLIYDGNPNPIGSVRKLRYKNPKSEHDAEWFLDEYSLFVGDDGHDQTTPGFDFVVCRLRRNHNKFDRIRASVHKKTNKAPQQIHERKRKSMNVVINIDDEEEEEVHGCSSAKSHSCTL

>PmNAC004

MANSRHVSLAFRFQPTDQEIIRSILYKMVVEREPLNPSYKGIVHDEDLFGTKEPWKIWEDYGGDQLYDQDLYFLCQLKRLNFSRSRTHRKVGCEGSWRGVVSKLVYDGNANPIGRIRKLRYKNPKSEHHGGWYLDEYSLFVGDDGHDQTTPGINFVICRLRKNHRSGRIRAGVDKKTNKAPQQIHENESKRKSMNVIINIDDEEVPHGCSKNARTRESFRKRGSFFSPEFLSFPTALF

>PmNAC005

MEKVSTFPSSALQLLPPGFKFHPSDEELIVHYLRNKVISHPLPmQLITEIDLYKYNPWELPNNALFGEDEWYFFSPRDRKYPNGVRPNRAAASGYWKAASSDKPILTSRGLKRIGLDDWVLCRVQQRGNRSKNTCNSQDSYSTEFWRYLPKVEQTQATYANLHADIITDFLYKDCQLLASILSGQAPSPTETNSSVSFQGSKDSYEVRSNNMVKSTISISSSVIDSNTLKMKSTEENMKENHFPLINNRESKKIDKNLLPSMRPmGNAINCYIPNHSQYDLLNAHPTDPTNFEEFNEMTFPGTYFE

>PmNAC006

MADSDDRVGFRFRPTDQELITLFLYKMVVEKKALMATYDTIIRKFNIFGTEFEPSEIWNGFGGEQLHPHDQELYFFSELNTLSSKAGSRKINRKVGLGGGTWSGERCDAVYDEEGNEIGHKRKFRYENEGSEEHSGWFLEEYSLSGEGCAFDYVICRLRKNERLFGNKRKCSSSLSEHQYPKKKMLTKPKPSLTTTKGKKVKKDEQEMGSQENMNLEPQNYRSPTTLVVSDDEKGNNQLTYNNHDDQFINSNYFPDDNTMMINDIITLDDINTLDDTKMIFSEMEWPLPDLPQIADQNHVPLPmSSVGADSVDGVIEACEPSNLVNDNQMGNNNSDEHQDQLLNNTDYCPHDTLIFLGDSDEEGYLINSPTIDDDMDELFPDLAGEWPLPQMPQIAATDESQVPFPTSEVGAESTNGEEMEAYCNPSHFQNMGNYQPLEEDINCFSNYSFVDELMGH

>PmNAC007

MANNNRLLGFRFRPTDQELISYFLYKKSITKDPLMASYYSNIVHEFNFLGETEPWVVWDQFGGPGLVDEDLYFFTELKNLSQKGKRIKRKIEAGGTWRETFSKKVYNKTTGNPIGQKRNLRYENQGCEDHGKWLLEEYSLLDKEAQKIVLCRLKKNGRVSNKRNNSTQEFKEKPSNKKARKELASATVKIDDEQPQRSSSLSSVVNNHDQELIFDINYNAISNYLCGDDQDNIDDPFDYGCLTDEEYAIDMDALLGAPPLSQELPHIDETLRVEAMNSSGLENICNQQLDDITYWFNE

>PmNAC008

MANSGVTQLLGFRFRPTDQEIIGSFLYKMVVEKRPLTSMPQYNKVIHKCNLFGNNREPSEIWRDYGGDQLKDQDLYFISELQRNGLRIQRKTGRGTWSETETYQNVDVIGRKRKFRYENGNASEDHAVWLLDEYSLFRKASKNGTSSNCYDFDVVICRLRRKGNMDKSGKKRKCSSQDQSNKKMKRDQSTKEMKTENSVGPQIMNDERNQLMINESTTYDQEYLIDTNYKSFDIDQLFTELDREPPLLHSQQLPQIAESQEEPCVDQINGPmEAATSNLSNFEYNSDELAGLIGQYNMNADDYEDPNLFIDVDELLAADAEPLSTFAELDDVHNVVSQPLDQNGYWSNSFMDQTYNSFMEEIMAD

>PmNAC009

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>PmNAC010

MANSGVTQLLGFRFRPTDQEIIGSFLYKMVVEKRPLTSMPQYNKVIHKCNLFGNKREPSEIWRDYGGDQLTDQDLYFVSELQRNGLRIQRKTGRGTWSETETYQNVDVIGRKRKFRYENGNASEDHAVWLLDEYSLFKKACKNGTSSNCYDFDVVICRLRRKGNMDKSGKKRKCSCQDQSNKKMKRDQSTKEMKTEISVGPQIMNDERNQLMINESTTYDQEYLIDTNYKSFNIDQLFAGLDGEPPLLHSQQLPQIAESQEEPCVDQIDGPmEAATSNLSNFEYNRDELAGLIGQYNMNADDYEDQNLFIDVDELLAADAEPLSTFAELDDVHNVVSQPLDQNGYWSNSFMDQTYNSFMEEIMAD

>PmNAC011

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>PmNAC012

MEELPPGYRFYPTEEELVSFYLLNKLEGKRDDTRRVIPVVDIYSKEPWDLPKFSGELCHGDTEQWFFCTLPmSIPTSYSNIICFPV

>PmNAC013

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>PmNAC014

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>PmNAC015

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>PmNAC016

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>PmNAC017

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>PmNAC018

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>PmNAC019

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>PmNAC020

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>PmNAC021

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>PmNAC022

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>PmNAC023

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>PmNAC024

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>PmNAC025

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>PmNAC026

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>PmNAC027

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>PmNAC028

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>PmNAC029

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>PmNAC030

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>PmNAC031

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>PmNAC032

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>PmNAC033

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>PmNAC034

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>PmNAC035

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>PmNAC036

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>PmNAC037

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>PmNAC038

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>PmNAC039

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>PmNAC040

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>PmNAC041

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>PmNAC042

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>PmNAC043

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>PmNAC044

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>PmNAC045

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>PmNAC046

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>PmNAC047

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>PmNAC048

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>PmNAC049

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>PmNAC050

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>PmNAC051

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>PmNAC052

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>PmNAC053

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>PmNAC054

MGSGNGVYSVGDFNLDAKWLIDPKHLFVGPRIGEGAHAKVYEGKYKNQTVAVKIVHRGETPEEIAKRESRFAREVAMLSKVQHKNLVKFIGACKEPVMVIVTELLLGGTLRKYLFSMRPRCLDICVAVGFALDIARAMECLHCHGIIHRDLKPENLILTADHKTVKLADFGLAREESLTEMMTAETGTYRWMAPELYSTVTLRHGEKKHYNHKVDAYSFAIVLWELIHNKLPFEGMSNLQAAYAAAFKNVRPSAENLPEDLALIVTSCWKEDPNDRPNFTQIIQMLLHYLSTISAPEPmIPQRIFRSENVVLPPESPGTSSLMTTHDDSGETPKIDVEEKPKVYPFRKKAPLRKASATKDSTPEPEARSPSLLPRAHRLRSWVFPLAHCLLHFNLVRAWLINSRGLANKVKNAARSSAYQIKDCGANRDCPNCHFVIDNSDVLSEWPGLPAGVKFDPSDAELLEHLAAKCGVGNSKPHMFIDEFIPTLDGDNGIYYDHPmNLPGSKNDGSSFHFFHKTINAYATGHRKRRKVDCHRSLAAEHVRWHKTGKTKPIMENGVQKGCKKIMVLYKSSKKGSKADKSNWVMHQYHLGTEDGEKEGEYVVSKIFYQQHKQSETNDNNLVIEDDVNALGTSPRTPITSAPNPPRPGKSVGCDDVPDEDVLHSSAKEAELVPGTQFEDNIGDTTWLAGESQADENCDLDCLEDTLLCKETFNSSTLLNGSFADRITDFPSNIYGVTGNSSTSCGIGDLENIDLGTPPDFQLADLQFGSQESLLGWLDRNVFLLRDVSAKLLSNNVVQPSKPSEDCFFSSSTPSNPFDGWCRSMSTSRGSSSRGSSMRSKVAKRMQKESGKTLREVRRAKKLQKKLMTENERLIYNLKRAKRKVALLLQKLKKYELPDLPmPRHDPELLTLEQLQAFKKIGFRNKNYVPVGVRGVFGGVVQNMHLHWKFHETVQVCCDNFPKEKIKEMATMLARLSGGVVINIHNVKTIIMFRGRNYRQPKNLIPFNTLTKRKALFKARFEQALESQKLNIKKIEQELRRSGVNPEDPVAIASIQRVASSFFNAIDQKDGSPYVFRGDKLSSAEPDNKLKHSDPPDEEEEEDLDKFIAEIEDAAEREWAAEEAAEKEEQTRLRYWNKEQFGGRYRRSEDVENDDSDDETTRARGWRDTHGKQRPNDSDYEDDEEESDSSNVVDASVLNSDADDSDGKPEKFKVSTRDRGKQDKFGRAKNDERFKKNREANNTKASSRNIIVDKGTESESMLSDLDTVMWKSDSEEEHDSTVSRAVNYDFRSSSDEEEDSSYRRGERKKLANDLDKAHDKFEVSRNAQGKHHRIGKADNNDYLKRNGDVNVRRKLVEEDVVSENTFGASESAIWELEAVEDVGAPTAGRYNYKSSDEEDYQVRRVGKKVKDTNKSTRTTKELDEDWDSD

>PmNAC055

MDEKNDMDKIDDVMLPGFRFHPTDEELVGFYLRRKIQQRLLPIELIRQVDIYKYDPWDLPKLASTGEKEWYFYCPRDRKYRNSARPNRVTGAGFWKATGTDRPIYSSEGSKCIGLKKSLVFYRGRAAKGIKTDWMMHEFRLPSLSESAAPPKKLLDKSLPmNDAWAICRIFKKTNSMAQRALSHSWGSPFPEPTAASGLLNQGAHCTQFSSENMSCTTDIGSSIQFWSNNDLQQASNASYSAFDTLPYKPINPTGSKPSIFDADQFPNGFMFSPGEMSGPISPmLIGDLSNATGSIDFDGSQQQQFSGFSINLSQNQMQGNMETGENEGGFRKNLSSSTSHANNNNNNGQWGSIRPIAFPFSLASDDDAWKPTLPSDSPPCPSDMSTSYSTNKCYS

>PmNAC056

MENAYGFSKEDEQMELPPGFRFHPTDEELISHYLSPKVLDSCFCARAIGEVDLNKCEPWDLPWKAKMGEREWYFFCVRDRKYPTGLRTNRATDAGYWKATGKDKEIYKAKTLVGMKKTLVFYKGRAPKGEKTNWVMHEYRLEGKYSAYNLPKTAKNEWVICRIFQKSSGGKKTHISGLVRLGSFGNELRPSLLPPLMDSSPYNSDTRTTVCETSHVSFSDPMEDQRTQDDIIDSFQHNNHHNSSNSNHNPLLASSSRSNPSAHLNPFYSNQITPNIGFLQHQDSLLMQDQSFLRMLLDNQAPNLRRSAKTELSQDTGLSMDVSSVVSNREMVQDDPSYSSAPIEYDSLWNY

>PmNAC057

MEKLPNFVINGGVKMPVGYRFHPTDEELVIHYLKRKVHAAPLPmSIIPDFDVFHTHPWGLPGCGGDVREKRYFFYNKINANEIDDTKRAAGCGYWKPMGKEKQIVDPESSEAVGIRKTLVFSQRKRRYHETQTKTRWLMHEYQLLSSQVNPTHTQASKREPGNWVVYRVFQRKRKPQRSSDIIPQPSNSKRTRTQRLVEVITPSSSSSCSSDITHLSSNANRLDHDQEENSSAAADN

>PmNAC058

MGREAEQPKAIVLAATAPVTPPPmPTALAPGFRFHPTDEELVIYYLKRKVCRKPFKFNAISEVDIYKSEPWDLADKSSLKSRDQEYYFFSALDRKYGNGARMNRATNLGYWKATGNDRAVKHNDITVGMKKTLVFHSGRAPDGKRTNWVMHEYRLVDEVFEKAGLGSIQDAFVLCRVFHKSNIGPPNGHRYAPFVEEEWDDDDKLTLVPGQESRNEAVAGRDAFIIGNGHAACNDQNAHAARSEQNAHAARSEQSGHAARREQNGHAACIEGNDHAACNGENGHGTSVQGNGHGTSVQGNGRGTSVQENGHGTSVQGNGHGTSIKGNGHATSFEGNDHGASVKGNGHGTSVKENGHGTSVKENGHFCQRENGHGTSVKGNGHLTSVEGNGHGIIIGDDHGTTNEGNCLEMVEYGPDMHNAGNNFEQDTQPISNALVTDGELPTENENDLPLCKTERMDDYPMTCVVNREERLDDYPSPGPDDAQPLLSLFNRHPGQLRQYKRRRHNDSNSNHSNASDISSGMTHDPCSSTTTTASTEASMTTTTRNFLSALVEYQLLESLEPKDTTPPPPPEFSAALLHSSVPPSCLKYVETLQNEIHKISIERETLKFEMMSAQAMINILQARIDLLNKENEDLKRNNV

>PmNAC059

MGRNSLAPGFRFHPTDEELVWYYLKRKVSGKNFRFDPISVIDIYKTEPWDLPGKSKLKTGDLEWYFFSFLDKKYGNSSRTNRATEKGYWKTTGKDRPVLHNSRNVGMKKTLVFHSGRAPKGARTNWVMHEYRLSNEELEKSGIQQKDPYVLCRIFQKSGTGPKNGEQYGAPIAEEEWDDDDVTCVPSELAADNVVVVSEGPYVETNDVSNGAYVEAFDNDQKFDAGIPSECPPLNFYYGETSNYVEHSGEFVDDGTTAVMGTGETSEYHEDQKFFDLPVDYEMGGKTVKDEYLTSENYDDLKFFDVPEHSEADAKLVKDECFIEPSNDTNPmDVNYPLNEPYFNTAENPPVGDGLFLETNDLSNPVESTAGFDMLDEYLTYFDADDDISQYIDFDSCGMMGVENSVPDQSPVDQKLVNGETEQLPMGVEHLAQAEDTNDASSSEQKPEFKLESDVNYPFIKKASHMMLGNIPmPPmFASEFPmKDAILRLNSGSASSSPVHITAGMIRIRDITSSDNRMDWSFGKDGVVNLVFSVQLSQNDGNSGNLVPMDGSLSGKTGCVVMRGWFLFMFFWVLFLSMSFKIGSYVYTR

>PmNAC060

MAPENMSISVNGQSQVPPGFRFHPTEEELLQYYLKKKVSNQSIDLDVIRDVDLNKLEPWDIQEKCKIGTTPQNDWYFFSHKDKKYPTGTRTNRATAAGFWKATGRDKVISSNCRRIGMRKTLVFYKGRAPHGQKSDWIMHEYRLDDNNTSNCITNVPMIVGEAAQEEGWVVCRIFKKKNLHKIGSGSTIMSTTTSSMTTETRSAQSLFDSCPEGALEQMLQYIGRTCKEEENEGNNMSTRFNLQPINTGVNNHNGYHERFLKLPSLDSPNSTSSQDCYQPNIHEEVMAAENNIDEDFQHQMDSGLTNWAALDRFVASQLNGQAETSRQLACFSDPYDCNDDHHELQLPTTLRSISSSSSNKSYHATQDYNNGEINLWSFARQSSSLSSSDALCHVSNGPI

>PmNAC061

MDCGFRFCPTEEELVNHYLRKKKQDKDFKVDHIIPEIDICKYEPWDLPGLFTEPESPYQDMFFFSPRDYKYINNRARTNRVTGRGFWKITGKERVIKGARGSIGRKKTLIFYEGRVTQCNRTNWVMHEYYLCEDEAIPNPKLAQQRDFVLCRLRKNAVKNVTSICAVAEPmYAEWLGISEEECPQPEELELVFPmLQLQDNISEEMEFEIFSKK

>PmNAC062

MDSNYRFLPTEEELVSYLREKKQVDHIIPGINICNHEPWEVPmLYEGLFTEPDSPYQGMFFFSPRDYKYSDNNYARTNSATARGFWKTTGKERVIKAGGSIVRKRTFFYEGRVPPYNKNNWVMHEYCLIEDEANPTPKLAQQRDFVLCCLKKKQDKKDTSIFAQPDEWPLISEEYPQPEEPE

>PmNAC063

MDSYFRFLPSEEELVSHYLREKKQVDHIIPEIDLCKHEPWDVPGLYAGLFTEPESPYQDMFFFSPRVYKYNNSARIERTTALGFWKITGKERVIKARGSTGKKKTLTFYEGRVRQSKKTNWVMYEYYLVEDEANPNPKLAQQVMQRDFVLCRLKKKADDHTSIYAEAEPmYDK

>PmNAC064

MNTFSHVPPGFRFHPTDEELVDYYLRKKVSSRRIDLDVIKDVDLYKIEPWDLQELCRIGTEEQNEWYFFSHKDKKYPTGTRTNRATAAGFWKATGRDKAIYSKHDLIGMRKTLVFYKGRAPNGQKSDWIMHEYRLETDENGTPQEEGWVVCRVFKKKIASLRIKMNEHESPCWYDDQVSFMPDLDSPNQNSNSNINMAPYHHLPYPCKKELDHLPmFQFPHEHFFQLPFLGSPKLLQSSATGVSSSNSMAAHAYSIDINHACTFQPSDQDQNFHGAVYGNNSNDDHPQAVDQLTDWRMLDKFVASQLSQDDASNKGNSYS

>PmNAC065

MKSCVKQFHLSEPLHAFLYIIRTEEQEAKLDNMNTFSHVPPGFRFHPTDEELVDYYLRKKVSSRRIDLDVIKDVDLYKIEPWDLQELCRIGTEEQNEWYFFSHKDKKYPTGTRTNRATAAGFWKATGRDKAIYSKHDLIGMRKTLVFYKGRAPNGQKSDWIMHEYRLETDENGTPQEEGWVVCRVFKKKIASMGIKMSEHESPCWYDDQVSFMPDLDSPNQNSNSNINMAPYHHLPYPCKKELDHLPmFQVPHEHLFQLPLLGSPKLLQSSATGVSSSNSMAAHAYSIDINHACTFQPSDQDPNFHGTVYGNNSNDDHSQAVDQLTDWRMLDKFVASQLSQDDASNKGNSYS

>PmNAC066

MLVVDMTVLSTNTLPLGFRFRPTDEELIDYYLRSKINGNHKQVTVIREIDVCKWEPWDLPDLSVIRTTDPEWFFFCPQDRKYPNGHRLNRATGRGYWKATGKDRQIKSATILIGMKKTLVFHTGRAPKGKRTNWVMHEYRTTQKELDGTNPGQNPFVLCRLFKKQDETIEDSNLAEVEPTVSSPTAAISSPQDTQSDHALGPmSPSFERNEKPTKVECTTADCSNGMEPDTLQPIECPSNCYNGYDAEDQLNVPLEELDIFYDPPQQPLFSPLHSQMQTELYYCGSNNFNNGHQGVKFQYGTNDQDADISEFLSSIFNSSGEHSDVDAKVAVPCETEFQNPVQSEGNIDRKGPVQNESTRIDCDQSSMFRVTSNHSNVFLSGDAGNGIRLRARKTQNLTSTENFARQGDAPRRLRLQRKVLYCSNLSKDWNCRPEDRETKPMAVEEIRDTEEKAVDAAVSDAVDAATDPPKKETMSTRPNFTPEGSILTGERVPNVILQASPmGHSMWSFAFLFRVVVVVAFLFIMLLAYGDFISFDAAGSPFTARMA

>PmNAC067

MGLRDIGATLPPGFRFYPSDEELVCHYLLKKITNEEALKGTLVEIDLHICEPWQLPEVAKLNANEWYFFSFRDRKYATGFRTNRATTSGYWKATGKDRMVMEPGTGEIVGMRKTLVFYRNRAPNGIKTGWIMHEFRLETPHMPPKEDWVLCRVFHKGKGEENTKLSPHDFMLETTSCTVPLSMEKYSSPPTQDQTMPRGYNPIPSFSTPPPRHSHNQSNSLLNLLHFPQEKYSNNSVPELGAKNDDEYGFLWDMSLEETSFENGVAPDMDEMRFEMDHNSMVLL

>PmNAC068

MAANTKDQEQMIPEFELPGFRFHPTEEELLEFYLKSVVFGKRQRFDIIGFLNIYHHDPWDLPGLSKIGEREWYFFVPRDRKHGSGGRPNRTTETGFWKATGSDRKIVSLSDPKRIIGLRKTLVFYKGRAPRGTKTDWVMNEYRLPDNCHYLKDIVLCKIYRKATSLKVLEQRAAMEEEIKNFHASPNTSSPPTSMETISFCSQPQEDLTLQMPKNNVVLKQEMEDSSLTEAKEPKEEKAMEIKGSPPPPTYILPELQVPRLSMDWTQDTFWTQMNSPWLQNLTPLPNLLNF

>PmNAC069

MAHYQNVPLGFRFHPTDKEIVGSFLHTLLVDRNPLMPPYSNFIRACNLFGNKLEPSEIWNKYGGPQLVDQDLYFLSGLKKLSPKRMDRSIGHGGTWSETESFKLIEYDNGNPNPIGRKRKFRYENKGSEEHTWWLLDEYSLFVGPKNDYNDRCYDFDFVICRMRKNDRASSKEINLKRSSQDQVQKKRSTNKKMKKDHQMGSTEESSSHVQQGCSSSLTGGELVVSYDDVDPTDLTFFEDNPIFNIEQILCETKVEDACSPSNSENVDSSYSKWTESYMEELMACI

>PmNAC070

MAHYQNVPLGFRFHPTDKEIVGSFLHTLLVDRNPLMPPYSNFIRACNLFGNKLEPSEIWNKYGGPQLVDQDLYFLSGLKKLSPKRMDRSIGHGGTWSETESFKLIEYDNGNPNPIGRKRKFRYENKGSEEHTWWLLDEYSLFVGPKNDYNDRSYDFDFVICRMRKNDRASSKEINLKRSSQDQVQKKRSTNKKMKKDHQMGSTEESSSHVQQGYSSSLTGGELVVSCDDVDQTDLTFFEDNPIFNIEQILCETKVEDACSPSNSENADSSYSKWTESYMEELMACI

>PmNAC071

MSSISVSVNGQCQVPPGFRFQPTEEELLLYYLRKRVSCEKIDLDVIRDIDLTKLEPWDIQAEKCKIGSLPQNDWYLFSHKDKKYPSGTRTNRATIAGFWKATGRDKVIYSNGRPIGLRKTLVFYNGRAPHGERSDWLMYEYNHIVSNAMGGAATEEEGWVVCHIFIKKKKNLKTLNSPSNSSFNYMGINTGHMLDSYYDEGSLEQMFQQVERNCKEENKAEVVKYDTKPLIYTSNQVIGAPDPKSLHQIVSGLTSWAAFDRLIASQLNGHTA

>PmNAC072

MESCVPPGFRFHPTEEELVGYYLKRKINSLQIDLDVIIDIDLYKIEPWDIQARCKLGYSEQNEWYFFSHKDKKYPTGTRTNRATAAGFWKATGRDKAVLSKNNIIGMRKTLVFYKGRAPNGNKTDWIMHEYRLQTSEHAPPQAKGWVVCRAFKKPSPSHRQGFEALKHAYYIREHNSHASSSNFGSEMHMVNPSLGFQYQSFGLDQQDHLISNHIFMGNQLTELPQLESPSISTSLANKQGVHEQQNNNITTEHYDDQRSNMNSSDQHMDWRNLDSLLEVPLIPQNYEQEAQNHHLLGCFPDL

>PmNAC073

MGSEDDPEMLFRNGRFCAPGFRFHPTDEELVVYYLKRKICKKRLKLNVIAETDVYKWDPEELPGLSLLKTGDRQWFFFSPRDRKYPNGGRSNRATRHGYWKATGKDRNITCYSRSVGLKKTLVYYKGRAPSGERTDWVMHEYTLDEEELKRCRNVQEYYALYKVYKKSGPGPKNGEQYGAPFREEEWADDELPVINNPmDRQIPVKQSVDVISVDPVKVNGEVHSALSDIEEFMKQIADEAVLELPQMNGYAYTIPQAVSEEETQSTVVDLYSREVVCPEPNTVFNPSHHQGNLQASFDFTQSDTSQIQRYEASEVTTSAPEIHEQGPPILREEDFLEMDDLLGPEPTISNIENPVDNLQFEGIDGLSEFDLYHDAAMFFHDMEPFDQGTVSHQQYMNSLGNNIVDQFEYQLQPNPPmVNQVNHQLNPESTQMNNQLWTHTERAEPNQGCLSYSTSGVVYEPSNFASQANQNQSGNEAAGGPSQFSSALWAFVESIPTTPASASENALVNRAFERMSSFSRLRINSVSANVTAGSSSEARRAGRKRGFFFLPVVVALCAIFWVLMATLRPWWRCLSA

>PmNAC074

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>PmNAC075

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>PmNAC076

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>PmNAC077

MANSSTGGVPPGFRFHPTDEELLHYYLKKKVSFQKFDMEVIREVDLNKMEPWELQERCRIGSTPQNEWYFFSHKDRKYPTGSRTNRATNAGFWKATGRDKCIRNTFKKIGMRKTLVFYRGRAPHGQKTDWIMHEYRLEDGEDPQGNLSSEDGWVICRVFKKKNLFKVGNEGGSSSMNSSDRQQLNNTSSTNHARSFMHTHRDNEYLLRQQHSQAFELNNPSLHYAHLQPPPQYSLFQPQALISTHKPIAGYDYTPLPSDDSPGHGMVKQLMTNPRDCESGSESLRYQACEPGLEVGTCEPNQAPMVAGGGGRDHHDQGGMNEWAMLDRLVTSHLGNDQDSSSKGARYDQDANAAASSVTQINNHLSLRGEMDFWGYGK

>PmNAC078

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>PmNAC079

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>PmNAC080

MNTFSHVPPGFRFHPTDEELVDYYLRKKIASKRIDLDVIKDVDLYKIEPWDLQELCKIGTDDQNEWYFFSHKDKKYPTGTRTNRATKAGFWKATGRDKAIYSRNILIGMRKTLVFYKGRAPNGQKSDWIMHEYRLETSENGTPQAKGESKQGSTKLCPPQLYMFLCLVFKKRLATVRKIGDYESPCWYDQVSFMPELESPRRSISHPYASPYNQQQQHYSQCKQELDLQYNMPHHHHHDSFLHLPQLESPKVPQSAPYGSMLQSSTLTQEEQLQQHINQQQNMFNSSSSSLVLYNNNDQQSVDQVTDWRVLDKFVASQLSQDQQDASKEVTNYSNAASMFHVANMLANESSRRPDNENLGQDYASTSTSSCQIDLWK

>PmNAC081

MAEDHMNLSINGQSQVPPGFRFHPTEEELLHYYLRKKVAFERIDLDVIREVDLNKLEPWDIQEKCKIGSTPQNDWYFFSHKDKKYPTGTRTNRATAAGFWKATGRDKIIYSGFRRIGLRKTLVFYKGRAPHGQKSDWIMHEYRLDESNTHDTTVCNSMAESMAEDGWVVCRVFKKKNYQKALESPKASFSMESSSNQMHSSRNDGVLDQILMYMGRTCKLENHDQSLNNLSERFMHLPRLESPTLPTFDQDRSFKACYQAIDEMLIDTPSTNQPSNGCDNNDPVEDHDEYPKTRLNDWATLDRLVASQLGQLNGQDQETSKHNLSCFGDPNMAFCSSPPHDHDHDHDVQLSYPYLRTSRSHHQSEVYSNENDLWNFTKSPSSPSSSDPLCHLSV

>PmNAC082

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>PmNAC083

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>PmNAC084

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>PmNAC085

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>PmNAC086

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>PmNAC087

MMKNPESSLPPGFRFHPTDEELILHYLTKKVASTPLPVSIIAEVDIYKFDPWELPmKAAFGEKEWYFFSPRDRKYPNGARPNRAAASGYWKATGTDKTIVASLGGRQNVGVKKALVFYKGRPPKGIKTNWIMHEYRLPENPNNYTTTSKTMKLKDLSMRLDDWVLCRIYKKSNVSSSAAVPPIDHEEEVEEEEDFLHDVLLPSLKSPLPGLGHNMSTNNTDLMPQKSSSFSNLLDAMDYSLLTSFLADGQYSNPTGTGLQSTPNRFPCSGTTGLDQKPLFINDYSNISSSSSSSKSHLLQKLPQFNGLNLPmIPSTESRLKRHDHPIADDHGLLYPSKKYVNSNCSFNHATIQSDNISQGHLLNHSLLNHQQLVLSSPQFQFQG

>PmNAC088

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>PmNAC089

MEESNIQVAHEIFYEAWLTDKYINDLPSGYQFVPTDEELIEEYLKKKIKNELLPINRFREVDVYKYHPEELTGMHNLLRESEWYFFSSRDRKYRNGSRPNRAADNHGYWKATGTDEKIKVNNEVIGQKRTLDFYAGKHGEGVKTEWKMHEYVLSENIAPSNDHKANGDMKLNDCVLCKIYKNKRVKKNKNKEIADSVQSAHQPDHQEYPSPLIANSNSSSSSINHHYTAAGMSSTTVNTEFGEPPYYNESFQNEAWSNYPWPITSFNSDQTLDSADTSHGLPMNTFSSPFSTDLEPTNDTALAHPSTSSQFPHDHAKEDDNNSFDPmAQFLNI

>PmNAC090

MRKAPFPPGFRFSPTDVELVQYYLKRKVMGKRLHYNFIAEVDIHKYAPWDLPGKSCWQGDLKWYFFCPTSRNYPTGARVKRANECGYWKATGKDRSVLYNGEVSGWIKTLIFHTGRAPKGERTDWVMHEYRLEAKNLADSDVLQDSYVICMIFQKDGPGPRNGAEYGAPFKEEDWTDDEAEICSEAVPHANMPEPNLVVPSNYNSSNILEGIHIGPSSESCISDALPPSCNVLQLVSINHVTMEKPHVSNDDILSMLNCFTEGSTSLMKENDKTEELGNVIPSGNASATPHVNSDDIYENLGDLGKLATVSEDGYNFSAGHNSICAPmQMLLGDNEQFLELDDLGRSVELP

>PmNAC091

MMESIESTVPPGFRFHPTDEELVGYYLRKKVASQKIDLDVIRDIDLYRIEPWDLQERCRIGYEEQNEWYFFSHKDKKYPTGTRTNRATMAGFWKATGRDKSVYDKTKLIGMRKTLVFYKGRAPNGQKTDWIMHEYRLESEENGPPQAKGWVVCRAFKKRTSSQNKGIEGWDSSYFYEELNGVSSVVDPTEYMISRQPPSFLAQNFMCKQETEADSLNFMHSDHFVQLPQLESPSLPLISKRPSSMSLISENNIEVEDEPKKVTDWRALDKFVASQLSQEERYEGDGESSFGAHDDSEMALLLLQSSGRDDDQGNKLNGFLNSSPDGDIGICIFEK

>PmNAC092

MNKSNLGSIRSSDLIDAKLEEHQLCGSKQCPGCGHKLEGKPDWLGLPmGVKFDPTDQELIEHLEAKVEGKDTKSHPLIDEFIPTIEGEDGICYTHPEKLPGVTRDGLSRHFFHRPSKAYTTGTRKRRKIQTECDLQGGETRWHKTGKTRPVMVNGKQKGCKKILVLYTNFGKNRKPEKTNWVMHQYHLGQHEEEKEGELVVSKIFYQTQPRQCNWSDRASATTGEGSSDIVPmNSRRDSGSGSCSSKEIIPPHSHSHSHREHDQMSAVASGVAAAAPISSYSAMDIHQLKSDHFSFAPFRKSFDEVGIGGEASTAREGPmSGTCEEMRGEHHHQRSVPQPHHHHHHHHMAHEVVPDHPQHDQHQQQQQQLHHQQIATAFHISRPSHPISTIISPPPLHHTSIILDQDSYSRIMLQNENFQAQQQHQQQQQQQHHKMGARSASGLEELIMGCTSSSNVKEESSMPNPQEAEWMKYSSFWPDPDNPDHHG

>PmNAC093

MDRVIPVLYIYEYNPWDLPQFSGEACHGDPEQWFFFIPRQESEARGGRPRRLTTTGYWKATGSPSFVYSSNCNRAIGLKRTMVFYNGRAPHGRKTEWKMNEYKAVEAHHADQNQPLIASSSSNTPSAPTLRQEFSLCRVYKKSKCLRAFDRRPLGVEIMSNPSLNLNQTAAAHEGAGHQGQGAGDQGQGSASHSRNPLMGSDQRTNSSSPESSSSGDHHGPQPPSQPmGETGTLPMFIDNEALWDLEQLMINNNWL

>PmNAC094

MAPREFVFNLPVGYTFRPSDDQLLEHYLLKKNSGEPLQYENVIPEMDLYGKIEPWDIWHECGGHKLAKGEDLYFFTKLKSLGDKDTRVARTIGSGTWKGENSGTTVSDPNNKEKDLGIWKRFHYENPKSVQDGCWIMHEYSLHPSLVKTKSNSTNQFVLCRIRKNDRGKGKLTTAEEDNKTDTPVQSQNKRQRPQQVTSFEELIGDCTPMSKATGVGGSVSYLPTELTQSQPDRSFACPTTVVSSQARENYTETQQALGLYAVCNQERASDIYETQQGLGLIDNDIGYWPSPFGSEEDQVNALDFSIDYDLLNHLINCDDGPPQSSTAQFMGMGMENTSTAISEANMVIID

>PmNAC095

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>PmNAC096

MGGYQVPVGYRFTPSEEELLLHYLLPRVNGNDYPKGVVPDCDLYGTKEPWEIWRDFHHSSPDDQEDIYVFTTLKKKTPNGSRFCRTVGAAGTGVWKGEDSGKKIRACGNDIGTRKRFRYMNPGSPHDDRWIMLEFQLHESLVQVPNKETIVLCLVRKKETSGKSKLEERQNHEVDMASRGEIQAQHVHDDQQQHTDASTYDQLRFLDDYLMNDVGGEQNTMA

>PmNAC097

MSTTEESVLDLLPKFRFHPSEEEMVNLLKNKVEGQDSQAMPDEIVDKPWDLPDNESIQLFCRFLKRMMQGKASQSIPEIDVYKYEPWDLAELMFPDSPYQPRAWFSFSRPDYKYANSRRCNRASGKGFWKITGKPRQVKSRQLPKSVTCKKRTLTFHEGRVPKSRNTGWVRQEYYLTPTDPmDPGIAGCMASNSELEQAAEIHLISEAEEHLTYKELEHVLLGSGNQNDGEPGGFVSSDFDDMIQELCAKGGEYLDSPSPPERPHQHQLPQLGNVPVTSDYIGSYSNNQAAAINHMIPHPEDFLAYKELEHVLGTCNPDAGEPSGCVSSNMLQKLCAQLGEELDSPIPPPGPPELGNAPYVYIDECSSWPSPIGDNDSSLPNKNSIPTNYDSKPVSNTASNFENQTRISELPSPLRKSSPYAPKDKTHLFIIESVLDNLSDPVAIAKHYFPPNFHFMPQSPYKSLKYYRDILSETQPSSSGTSNTSTSVDGKSKSELQELARQLIIRASQMDDDDDDATPKSQSARVMSL

>PmNAC098

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>PmNAC099

MIRFGRAAAEEGDLSLPVGFRFRPTDEELVDYYLKNKVQGMDFHAEGIIDEIDILKFEPRDLVAKSLMKPDDENGFFFSQPEYTPKNKTKRSTEEGFWKITGREHDIRTRDTRRTFIGKKRILTFYIGHGRNSDKTNWVMHEYYIPKAHPNANQRDFVLCHLKKNVKNSDEIHTDVATTCDEGEPSTRNAFDVENQPKHGMDIQEEDTQQPENLDYFEQAKDRWLASSCSNNDHNATFADNDSASELEERLRPFNTKPFHAGELSLEMLYELQHGSSQSIQDIDIMLHNQLSRQAASSVNVAPKPQTDRVQSEAGIALRKYGIRLRSDRIALRDTSADEYYTREKTRRITYPPEKAKEPEKPKPEPEKPKAPmYHRTAADLVEKQISITKSSIDKKVPQGSMEQTQNRTTPGNWKRSFITWQTSPLKSPPSVYIFNTVLGTILFLFCVREVVLYGEWS

>PmNAC100

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>PmNAC101

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>PmNAC102

MPEIEYKPWNLSDNESISLFLRFLKQMMQGKASQACHIIPEIDVCKYEPSDLAELLFPDSPYQPRMWFSFSRPRYRSINSLRYNRATKKGFWKITGKPREIKSQQLSKSVTCKKRTLTFHEGRVSKSTKTDWVMQEYYLTQTEPGSIPNQLSDFVLCRMKNKSAHYESDNKKLKYASICDESADPGIGGCVASNSEDDQAPESNMIPEADRHLADKEPEHDLPGSGNHDAGEPDGCVSSDCDDMIQELSAQPGEYLDLHFPPPEPPEPGNASVPSPIGNNDSSLPYKNNITTNYDSKPVSNTASNFKNQTRDERTSEVYSQPEEDPESFLQLKLDDYTWLSRILQPEQGNLLHANNSIGCNELQSPYPETAALFPQSY

>PmNAC103

MSSGSSTTTTEAWVLDLLPEFRFRPSDEKMVNLLWKKINGKDYQVMPEINYKPWDLPDNESIPLFLRFLKQLMQGKASIIPEIDFYKHEPWDLAGAGLMFPDSPYQARTWFCFSRPDYKYVHSPRRNRLTEKGFWKITGQPREVKSRQLSKSLTCKKKTLTFHLGRPKKSSKTDWVKQEYYLTPTDPGSNPNQMSGLVLYRVKYRSADYESYNNCVLGTGNLNDGEPGGFVSSDFDDMIQEPCDQQEHLDSPSPPPEPPRPHQLPQLGNVHGSTGDYIASNSDNQAAAIHHMITDEEELLAYKELERVLLGSGNPDDGELRTCVSSDMLRELCAQLGEDLDSPFPPPGPPELGNAPDVCTDECSSWPTPIEDNDSSLPNKNNIPTNYYGKPVSNTASDFENQTKDERIPEVYSQSEENLQSFFRSLEEEDYTLPSPILYVEQGDVLHANNYIGCNESQYAALFPHSS

>PmNAC104

MSSISTMEEGDSIPVFLPGFRFYPTEEVLVSYYLKKKIEGKDSNFSHIIPEIDVCKHEPCDVPmFFEEADFPDQEMEWFFFSQPDYKYTNSTRCNRATDQGFYKITGKVREIKAGRSKVVIGKKRTLTFYEGRVPTAKKTNWIMHEYYLTNTELAQLGPNTNQQKDFVLCRLKNKSANYKKLKDDSICDELADTGSGGGIASNSEDDQAAGADMISEPLEHLASQEVGDVLNGNGSGLIENNDISICDDDQIDAWIFSDFDSQAAYDLLQEQYYAEPGENLDSPLPPPQPPQPPLPQDYCFSTQQSPLYTNQGNVPYVYDADCNRQQSPIGDRNSYLTHKNNISMNNQIEPVGSITYGVQNRATGGSNSEVYNNSTNDFEEPVSNITYNCNNGAPDERILEAFVPRCIVLEVALYRFCCCMAAGVSMYVTITRHYCDVCGYWNGSFEVPSLMK

>PmNAC105

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>PmNAC106

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>PmNAC107

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>PmNAC108

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>PmNAC109

MGTFKQAVKFVVLPmLPCSFFSAHFLLSPQHSSTSLFLANIPTRKLLFKKFIDDCWECDPNWPDNRQSLADCAIGFGQYALGGKGGEYYIVTDSSNDDAVNPRPGTLRYAVIQTEPLWIVFPGNMLIKLSQELIFNSCKTLDCRGANVHIVGCGCITWQYISNVIIHNVHIHHCYPSVDKLRSFLRQLPLFSNAFLVGGAEDFFIIELADQVDIFFTGQLQKLKSVVLSGGYEDDEDHGEWFLYTGSGGRDLSGNKRTNKAHTFDQKLELRNQALRESCLQGYPVRVVSGGGGGGGGGGTTGEGVSGKKGLPGVKFFFPTEQELVGYLTNQIEGKDSEFRDLIPVIDNVCEREPRDLPmFFFSQPDYKYKNSKRCNRSTDEGFYKSTGKVREIKAEQSQAVIGNKRILSYYEGRAPQAKKTKHVMHEYSLTQTKLAQLGAQNNQQRELVLCHLTNKSAKSAKLKDDSICGDELAEPmIVGEIAYSKDVQAAATDMIQGPDEHLKDKDALLGTENRNECAEPSCADLGENMDSTFLSPEQLAATSATTPTSATSFGGFGVGSPDGFFLSDIDDLLKQPSCADLGENMDSTFLSPEQLAATSATTPTSATSFGGFGVGSPDGFLLPDIDDMLKQPSCADLGENMDLTFLPPEQQAATSATTPTSATSFGGFGVGSPDGFLLSDIDDLLKQPSCADLGENMDSTFLPPEQLAATSATTPTSATSFGGFGAGSPDGFLLPDIDDLLKEVNF

>PmNAC110

MAGPSWLVDKNRIATKIKSASGTCDPERIKWQSNPTRACPNCQYTIDNSDVAQEWPGLPKGVKFDPTDQEIIWHLIAKSGAEDLKPHPFIDEFIITVDDDEGICCSHPHKLPSVKQDGSASHFFHRAIKAYNTGTRKRRKIHDGDGDVRWHKTGRTKPVMLDGVQRGCKKIMVLYMSTVGGGKPKKTNWVMHQYHLGTEEDEKDGEYVISKIYYQQQQVKQADKTDQDLPENFDLVITKVDPVTPKSVTPEPPRTTSRDPFPQHPEMDQAEDEVHPEMDHAEDEVHPEFEKPDHYDQHNVENEADEVINNTENNAEEDPKWWDSESQNLLDSQQLVEGLSLCDDLLQSQSPIRAGHENGEPmQVKPRLADYAKLGPENLKKDLDECQNIVLDPmNIMLEDTPPDFRLSQLEFGSQESFLSWGVKLAD

>PmNAC111

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>PmNAC112

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>PmNAC113

MAPCESVVNLPVGFIFCPRDDQLLGYYLLNKDSGKPFQYDNVIPEMDLYGKIEPWDIWHEYGGHNLAKGEDLYFFTKLKSLSDKDSRVARTIGSGTWKGENSGTTVSDPKNKKNNLGIWKRFHYENPKSVQDGCWIMHEYSLHSSLVKPKPNSTNRFVLCRIRKNGRGKKKLRTAEEDNETNNPVQSQNTRQRPQQLTSLSEATGIGGSVPFGSEEDQVLNFTDYDSLYHLINCDDVPPQSSTAQFMGM