**Table S1 Amino acid sequences of *C. chinensi* and other insect used in phylogenetic analyses.**

**OBP**

>CchiOBP1

YSFDNPEFNEHLRQSLDEYMYGEDEEPRFKRNAKDANDDEKFVCKQKHFKSCCGNESTMKKLHQKEKDVGKECHKNVTSKFEELKVNTNHPRADPMNFFSCEGMMNMKKKIYCVNECIAKTQKLLNEDGSLNEENLRSYVLGESFKDEWLKELVTHGVDECLKKDFYKISSPKEETTPAYPTDAALECNPTYLQFLSCLYKEVEIGCPEQHQKNSKKCKAIRKNFTENKKRMLDLLKN

>CchiOBP2

SLDAPAETVELIGKKALPADESQRCFLECVYKDLAVVKDNKFDAEVVHTLAKERFPDGGEPLTKASTMIDTCAKEIVADEKESCAMGSAVRACFYKYSDDSHPPL

>CchiOBP3

QISAMDEEGNVDPDVFTGTVPEDYKGYAEGVIKSCKTVGGTTPCEKAYNLNICAQKVDPAKYMLI

>CchiOBP4 1-25

ALPEAQINAFKKQVKTQCLAKTKVDPALIDKVLVGEFADDHKLECFTKCVMEKSLVTTKGRIDWKKIQATSKAMLPPKLAKKVEVVAAVCKDIELQEDLCKHAMMATKCVYEQDQDLFKFMN

>CchiOBP5 1-21

VDIESFTTISPVVKQATTPKLSVAQNLNKAAMECQSKQGVNQAFMGLLSTKNIPTNEKMRCFLLCVYETLGLVQDNKFQATNAKLMATQRFSGEELKKANHLIDTCNKTLSGPIEPNPKEYCLMGRLVRTCFKEEGDKISFFPKA

>CchiOBP6

AGIIENTKFSKAGAEKLAERYYGDNVEDMNKARSIIDNCDSFVSDETEECNLATKLAFCVVEEAQKVGLSSVPGG

>CchiOBP7

SKQLAAQRFKGEELTKANKLVDTCAKEAIIPAGTVEKCALGKSVRSCFVKNGDKINFFPKA

>CchiOBP8

LECVYKSLDIVKDNKFNSDAAKAIIKERFEGDQLIKAEHAVEACGKELANADSSAESCALGKTVRACFAKNADESLPPLLAQ

>CchiOBP9

RHLQNSALSDQADFVSVCNSTWPTETDILSSVISEKKFQSIHNKNFKCFLHCLYVHYNWMDQTGGFLLDNMKDELMETSLDDESAEIILFKCTAIHSTHSCDRAYRFTDCFWKETQMYGDVETNEINKYEHVYVK

>CchiOBP10

MICNIQQIDSYSKGDFDNLAKVCPNVTQDDLEICKNFEVPDSPSGKCFLRCALQTMGMMATTGGIDKDNSIQTMIKSWPNFSAELNTKIFTNCYDQVHPLEKELSGTCELAYKLMKCLNVETRKNGYYKDFLKNR

>CchiOBP11

YPNDVSTAAINKFKTSVDKCKTDLNASPEAVNLIGKKVLPTDESQRCFLECVYKDLDIIKDDKFVPEVSKGFAKARYPEGGEEFTN

>CchiOBP12

YEFEDGESFDCEQMMKNERLVNGIVDCLKSDSPDCGTIMFTKIKELAPEIMQTLCAKCTDAQKTKFKVCTNEFIKIRPDDYEILVKKYDPDNKYRGPLEEYLKS

>AgosOBP2

SDPCNISTCYKSGTTKPPTTVTPTRLPVQSSSTPTSHQQTTYAKDHVHSSTATKSGVNTTATTTSGASVNGTERTTVVKSSSGVAGNVTTPKPTMTDGHVALKQKLNTIAVKCKDELHAPQEIMALVSNTVVPQNEQQRCYLECVYKNLNLIKNNKFSVDDGKAMAKIRFANQPEEHKKAVTIIETCEKEAIIDPKTTEKCAAGRVIRNCFVKNGEKINFFPKA

>AgosOBP3

RFTTEQIDHYGKACNATEDDLVIVKSYKVPTSDTGKCLMKCMISKLGLLNDDGSYNKTGMEAGLKKYWSEWSTDTIESINNKCYEEALLVSKDIIATCNYAYVVMACLNKQLKLDNST

>AgosOBP4

QKQELSGKCRAPDKAPLNLEIIINICQEEIKSALLQEALDILNDGTLEQNTPSYSRSKRDADEDLSNEERRVAGCLLQCVYKKVKAVDETGFPVVDGLMKLYNEGVQDRNYYMATLSAVRHCISIAQQLKQQQPSKSFDDGQTCDLAYEMFECVSEKIEENCGVENKLNNLSQRQV

>AgosOBP5

EAGHQRRGKELLDTEDSDFFRCKQASRKSCCGPENAMKRFGDKDKVAADECYAQVAEKFATVTATTPKQDLFSGEAVKITKKKQFCLHECIGKKNKLLTEDGSLNKTFIADYAMKSVFKEQWQKQIGQKALDKCLEETYIPWPAEETENKCNPVYVQFQHCLWLEYESNCPDNKIKLTKKCEKTRNRYRMQKSPSNQ

>AgosOBP6

VGFERTWILRQKRMTNDNECRALFPSPEKKLPTCCQMPNILPGLDNAWEVCFEKFKQFKDKHATKEYKEMVHENEPPCLFQCVFMQSGLTTSDGKVNEDAVIKKMAEGMDNDEKWKSIWRNTFNKCLNDVKQEDKEQIKVMNTPTGRLMKCFLRDLYMNCPKNVWVENSECSNLKDLVEKCPKLPPPVFQSPPKLI

>AgosOBP7

YLSEEAIKKTQKMLKNVCSKKHSVEEEVFTDIKKGIFPENNNNIKCYFACNFKTMQMVNQKGILDKKMFKDKMTMLAPPNVLAILLPPIEQCIGNDKDTEICQSSYNFIKCAHRVDPKSLEFLPL

>AgosOBP8

ENNQQNSNDRSASIFQSCISETKLSGDALKGFRSMSIPKTQAEKCMMGCLMRKVNVINKGKFSVEEATKVAQKYYGTNESMMKKAKDLIDVCAKKAQSTTEECALAGIVTTCIVEEAQKAGLTGGPGSRSKRTVSPKFRHSIV

>AgosOBP9

ADDADTADKELMSKLITVAFKCFKDADWGTCGEMITTKYDITQAKYKQCTCHMACAGEDLGLINSNGQPEPAKFLEYVKRINNSVIKSQLQHIYDKCQNVKGTEKCDLAEQFAICAFKESPEMKERVTKLIEMLVKMKPKSK

>AgosOBP10

RPQPDEPDDIKKTLYNACSEKFPLTEEIKNNVKNSMVIDDQNFKCFLRCCFDEMSLIDEDGIIDGESLAAMAVDKIKPVAEKIVHDCLPAGKQEKQDGCEAAFKFFSCGMKLNPLTIELLPLQ

>DcitOBP1

MEFLVRGEIKSTSFKFLIFLVLFLSVNNILQTVSYSTKEFDNLAKVCNVSAEDLEICKKYEVPDSESGKCFLRCALQKLGMMNPAGDIDKEASIQTMIKSWSRFSSELNTELFTECYNQVQPVTKELAGTCELAYKLMKCLNVVTRKHGYYNDFLKSDK

>DcitOBP2

YSFDNHELNEHLRQNLEEYMHLADEEPRGKRDAKDEGNGSDDKFVCKHRHFRSCCGDDNLMKKFIEKDKSIGKSCYRNVSAKMDELKTNQQMGDPMDFFSCEGLKNMKKKIYCVNECIGKKQELLNEDGSLNQEKIQAYVTAENFKEDWQKDLVTAGLNECLKKDFYKTSFPKEESTDGAGLNCNPTYLQFLSCLYKEVEIGCPDQYQKNNKKCKAMRENFANNKKRMLDLLKN

>DcitOBP3

EIDESMKAVAKMIHDQCVDDSGVDPAVMDRIFSTKTMEPDEKFKCYLMCGLQQISAMDDDGNVDSEVFIGTMPEEFKSYAMEVVKKCSDVGGTSPCDKAYNMNVCAQKVDPNKYVFI

>DcitOBP4

QTQHRPQPTPAKAAEPRKYSKCEPPTSAPQKLEKIIGQCQDEIKQALLQEALEVIDDVKQQIGNSNNNAYNTPHTRTKRENFSGEERRVAGCLLQCVYRKVKAVDSNNFPSAEGLVRLYSEGVQDRNYFTATYQAVQFCMKLAEQVRQSKPNGVLDGGQTCDLAYDMFNCVSDQIEKFCEVQA

>DcitOBP5

MVPVYLYYSQSVSPQCELNHAPSSTQEIVSLVIMTLGQITLSAVLSMIVAVVSGRYIQNSAEDRADFVTICNSTWPTDTDILSSVISEKKFLSIHNKNFKCFLHCLYVHYDWMDQTGGFHLDNMKEELIKTELDDESLDVILFRCPETHSTHACDRAYRFTDCFWRTTMMYGDMDNNELVKYDIHDQD

>DcitOBP6

ALPEAQMKAFKKQIKNQCVQKTKIDPAMIEGALNGNFPEDHKFECFVKCIMDKSLVTTKGRIDWKKIQTTSKAMLPPKLAKKVEAVAAVCKDIELQEDLCKHAVAATKCVYENDKELFKFMNPE

>DcitOBP7

QTTIAPQKPTTPKLSVAQNLNKAAMECQSRLGVNQAFMSLLSTKNIPTNEKMRCFLLCVYETLGLVKDNKFIGSNARLMAARRFAEPELSKANQLIDVCEKSIVVPSNSTEFCALGRLVRKCFKEEGEKIDFFPRA

>DcitOBP8

DEAENRERVQQIYAKCMSETQAEDKDLEGFRKMQIPDSEKGKCMMACLMKEAGIIENTKFSKEGAERLAQRYYADNEENMTKARSIIDSCDAYVSEETEECSLATKLAFCVVEEAQKVGLSSVPGG

>DcitOBP9

MAQKVNAVATKCKTELNSPPEAVALLGAKSLPTDEKQRCFLECVYKNLGIIKDNKFSPEGSKALAAQRFKGDELTKANKLVETCAKEAVVAAGNTEKCALGKSVRSCFVKNGEKIDFFPKA

>SfurOBP1

DEATSSSSPDADSLITSTTLSPTSNETDAARASIKEQLAKLTESCKTSSQANSDDAKIIETESVPKTEGEKCFLQCVYGGLGIVKHDQFSVEGAKLLAQKRFGSFPEELEKANQLIETCSKEALKKDSKDKCPMGFLIRQCFVKNGQKINFFPKA

>SfurOBP2

GLTPEKLKEIKPLIDTCIKESKVEEETLGKLHNGHEIPSSQSGKCFIACMAEHMKLMKDGKFEPAMTMEFIDKMVQDKAKADEIKKAVDDCFKSVPDGDKCEMAASLATCMKEHHAELAGMN

>SfurOBP3

KIDKAKKEAAIKKCQAETSASDEDVKKVRKEHVVPDSEEGKCFIACGFNHYDMLKDNRINLEGVNAFFEKLYDEQEKRDIAIKAAASCAATESVSGLNDCHVAAKYFACLQRHPDFVKMKDDFDV

>SfurOBP4

EDTTIKIKNQQSPHKQQQVYCQAPPTAPERLERIIEQCQDDIKTALLQEALNVLTDTSPRDLVKKTRSKREVFSGEEKRIAGCLLQCVYRKVKAVDDQGMPTVPGLVRLYSEGVQDRNYYVATVQAVQQCVSASQHFRYYNPQVLKEDGYTCDLAYDMFNCVSDKIEAFCGRTP

>SfurOBP5

YDFSDPYFNEHLQSAMEEIMEEEMLSIGRVQRDADQTQEVADEYFKCKHRNLKTCCGKINLMKNYGDKGKIYGKQCYEEVVSAFKTNSSSTADDDDSMMDMFSCEKVKMIKLKHICVHECIGKKTKILKEDGSLNAEEIKQYAREYMFNEEWSKELGERALDKCLTQSYNSVTKMLDEYEIKCNPTSVQFHHCLWKEIEMTCPESKVDLKAKCVRLRERLRKQQAAGM

>SfurOBP6

VFVDRENGYRLTRQAPPDDECRPPRPGHNDDGVCCDMPPVFRTAHDKFESCLEELSSIFPPPPPPNGHHGPPPPGGPGGHGPPPPPPPGGRRGPPPGFGGPPGHEPPIFACAHECLFNKTGLLENGKLNVEALKKKLEGELGDDEVWKNLLQSIVDKCMESKDPPSNDMCTSGSHELARCVLRDMFMNCPQEKWKESDDCSNMKMKLEKCPELVPPMAMRLSQPPMP

>SfurOBP7

QYGPIALSTAQSAATAGLPPSATNKVDTFNRVRREALEANERVVRESSEEEDEACKPTKAEHEAKMCCDLPLVYRGTPELFKACREELGFPDHKPPPPPPSSDGHGPHGHPQRGMCVAECLFNRTGLLENGKINKEALKKALDEYLKTDGAWKDVATTTLEICYDAQTRGDFKPDNEKFTSGSSEFLKCFTRNLFMDCIPEKWTDSEECKKMKEKIDKCPKMLPPALFNKRPH

>SfurOBP8

VITQIMAADSNNPDMQTVFNNCREEASATEDDIKTFRAQQIPSTTTGKCMLACMFNHSGLMKEGKYNSEGALKLVGQVFAADPVKLGKAKTLINTCSDEVKNENDKCEIASKIADCTVKMTSQVGLS

>SfurOBP9

MQADFAMMQFPMQGTGTPMIQSIAGELKYCMDVNAEQNSDGLEDYLPLLFNEELPTSLGQKCFLTCLFNRFGLLKDGFLDAQTAKTLVETFYKDKHDEKTMANIAINVCRVSAVPDILNPCEIGFSLKSCFVDSNKKGKELRGKN

>SfurOBP10

IPALTEAQIEQVGKAMANMCISSSGVQRSLITKAMTGEIEDDRKLKCFFGCIMEAVQVTKNGKMQPEVLKRRANAMLPKTMREMILPTIDSCSHIENEDKCELAYSIVKCHFSVNGKNPFFFNF

>SfurOBP11

RFSEEEKQLMNQVHTQCVTETGTSEDLVNKATNGDFAEDENLKCYVKCIWSTLTVMDDDGNFDVGVLEVMLPADMKDIVMKAMSACIGAGGGSPCEKAFAVTKCLYKEAPADFFLP

>SfurOBP12

LVAAELEKLKNSCLKKSGATEDTARRLVGINVVTENHVESCFLTCIYKGLKIVSSDNKFQPDTVKKIADDHFLGRNLKVTYQIADSCTKEIKADPADKCSIGASFRNCFSKYGKELGFFPHM

**CSP**

>CchiCSP1

EDDKVTAHNLSKFLKKFQHININTITHNDRLLTSYTSCFLNKGPCSTESRELKRAFPVIMKTSCGSCKSEQKKKVQTLLK

>CchiCSP2

YEFEDGESFDCEQMMKNERLVNGIVDCLKSDSPDCGTIMFTKIKELAPEIMQTLCAKCTDAQKTKFKVCTNEFIKIRPDDYEILVKKYDPDNKYRGPLEEYLKS

>CchiCSP3

ASAPYTTKYDNVNLDEILANDRLVSNYIKCLLDEGTCTPDGAELKSVLPDALKTSCTSCSDKQRSGSKRIFKYLIEKKPEEWAKLEQKYDPEGIYKAKYQAELKALNINAAHEEVASPVVAPVDSISKSETVAKSETSAKVEAEAKPVETKSESENKTPSH

>CchiCSP4

SPAYSTKYDNINIDEILSNDRLFNGYYKCLMDSGTCSPDGAELKKSLPDALKTECGGCSDKQKEGSKKIFKFLIDNKPEQWANLEKKYDPTGTYKAKYSAQLA

>CchiCSP5

SKRLVSNYVNCLTDKGPCSPEGADLKKTIPTVLQTLCEKCTKSQKEKAVTVMKRLKKDYPAEWETLMKKWDPQGEYKKKFMEKFPELKQEE

>CchiCSP6

AKDEIPAYPTRYDAIDVDLILGNDRIIRRFVDCILGRGPCTREGLELKRIIPDAIRTECTKCNPSQKKHVGKVLSYLFHNRKNYWDELLAKFDPDKSLREKYGFT

>CchiCSP7

APQKAKEAESEGGSSILDNFDLDSVLNNSRVLKNYVKCTLGTGPCTAEGREMKRVLPEVLKTACGKCSPSQRDRLRRTLNKLKNDPKLVEDYNKIVQKYDPKKEYVENLEKFLLSGDKKSA

>CchiCSP8

ASVTPKPTSVETKSEDKPVVSTSSSSSSSSSKSAATSAKPVATPTKSAAAPAKSASSVSDAELDKLLLDRRYLSRQLKCALGEGVCDPVGRRLKSFAPLVLRGNCPQCTPTETRQIQKVLSHVQRNYPKEWAKIIQQFTGN

>CchiCSP9

YTNRYDGFDIDSVLKSERMYKSYLNCFLDLGPCNPMSEEGKRLIPEIINTSCAKCSPHQKYLICKVFKLILEQKPDDLQKLLAKYDPQNKH

>CchiCSP10

ANVATTPSAKTQQTSAAPAASDEKNHGGSLLDKLPIMDLLKNPKVRDGYTGCLLEKGPCTPDAAEVKGIMPEALTTGCAKCTPTQKAVFEKLILHYNKKQPEIFKEVTAKYDPKGEFKKNHLAKLKKSVKKD

>CchiCSP11

AYTTKYDNVDLDEILANDRLFSNYYKCLLDQGNCSPDGAELKKILPDAIATECGGCSEKQKEGSKKVFKFLIEKKPEQWKALEAKYDPSGSYKAKYDAQLKAL

>AgosCSP1

MNILTIFCYVTVMCDTQVKPAVSAQRLQSVNQNVTPTNDGRKTIRETSSYPTRYDYIDIEAVMNNERIIKILFNCVMSRGPCTREGLELKRIVPDAIQTECAKCNERQRKQAGKVLAHLLQYKPEYWKMLVQKFDPNNVYLRKYMADNDDDEKLSLQKLSNDTTKKKRNI

>AgosCSP2

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>AgosCSP4

APQKDAVAASGPAYTTKYDHIDVDQVLASKRLVNSYVQCLLDKKPCTPEGAELRKILPDALKTQCAKCNATQKNAALKVVDRLQKDYDAEWKQLLDKWDPKREHFQKFQQFLAEEKKKGFTKF

>AgosCSP5

SPAGTATAAAVSADDEIKDFPAYMKRFDKLNVEQVLNNDRVLASHLKCFLNEGPCVQQSRDLKRVIPVIANNGCNGCTERQMTTIKKSLNFLRTKKPTEWARLVKIYDPSGTKLNKFLDA

>AgosCSP6

APAKYTTKYDNVNIDEILNNDRLVASYFKCLMETGKCTPEGEEIKRWLPEAIENKCEDCSEKQKLGSEKIIKFLFEKKNDMWKQLEAKYDPQGTYRQRYAEEAKKLNINV

>AgosCSP7

RPEDVKVENKPAVIKSETLAAPLPTNIVKRATDTIQLDSSLPNVSEDVLDKALSDRRFVQRQLKCATGEGPCDPIGRKIKAHAPLVLRGMCVKCSQSEIKQIQRVMSHIQKNYPKEYTKMLKQYQSGF

>AgosCSP8

ADGGIITPQQQQQQTMMFTAPTGYYVSTYDHIDVGRLLRNNKVVSGYVKCFVNEGPCTPDGKLVKAYLLPEIIRTVCGKCTPRQKDMARMVLKHIYTYRQADFEKIMQIYDTDGKRNEILAFMNH

>AgosCSP9

TFTRSTKFDDRTGIDIHLVKRDTDDVNDDENSVESDEGFFYRFTHFFQDSSDKEDDDDDEKKPDFITTFDIFKLLDEEYAMQQFYCVINEDPCDEVGMRLKATIPEEINRNCERCTSTERNNIRRILNYVKKHYPQFWKRVEPIYKKKI

>AgosCSP10

MINTRPRKLVRCIRGVSISVAKGDDAVNAENKDDDSHLVNREEIQRYMSMMEKINIDQMLNNTRLMSNNVKCFLNEGPCTAHLREMKKMVPMLVKDSCSSCTKEQKIMMKKAMDAVKARRPNDYEKLSKFFDPEGKYEKKFLENLNESK

>DcitCSP1

AVTPKPADSKPAIDSDADPAKPAVTSSTSSTSSSSKSAAKSVTPKSAPAIKSEAPKSEAPAKSEPAAKSATKAPAAAPSKATSSVSDDELDKLLQDRRYLSRQLKCALGEGVCDPVGRRLKSFAPLVLRGACPQCTPAETRQIQKVLSHVQRNYPKEWAKIIQQFTGNK

>DcitCSP2

EEDLEKKYADFDIEAVLNSKRLVTNYVNCLTDKGACSPEGKDLKKNIPTVLQTLCEKCTPSQTDKAVMVIRRLKKDYPEEWKILLEKWDPKGEYTRKFQEKFGDTYKV

>DcitCSP3

QKKQAESAPESGILDNFDVDSVLNNGRVLKNYVKCVLNMGPCTAEGREMKRVLPDVLKTACGKCSEQHKERLRKVLLKLKNDPKLKEDYNKIIEKYDPKKEYVANLEKFLLS

>DcitCSP4

MLFTVCYFVSQVISPVVFPTVKMYKVLAVAVCCAVIASCLAKPQTKKYTTKYDNINLEEIIHNDRLLNNYYECLIGTGNCTPDGAELKRLLPDALENECKACSEKQKEGSEVMIKYLIDNKPEMWAELEKKYDSTGSYRKKYAAEAEKRGLKV

>DcitCSP5

MKTSCGSCKSEQKKKVQTLLKAIKSHKPKEWKEMLALYDPSEDYRKQINKLVKPKKQSSD

>DcitCSP6

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>DcitCSP7

APAESVYTNKFDNFDVDKVLNNERILTNYIKCLMDEGSCTNEGRELKKTIPDALAGGCSKCTEKQKAATEKVINHVMSKRKPDWERLSKKYDPNGFYETKYKALLEKAKHPAAPAAATVTKEGDAKKDLKESKEPVKVASPAPLAKPTNDKPAKSADPKAAVRAPGPALPAPGPALPKEDALLQAALGKKAAPAVPAVPAPIR

>DcitCSP8

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>DcitCSP9

EDVNKYLANPQYVEQQIDCVLDRGNCDPIGRNLKAAIPLALRENCRACSSKQVANARKLGSYISERYPREWRQIQA

>DcitCSP10

SPAYTTKYDNVDLDEIIANDRLFSNYYKCLMDTGACSPDGAELKKVLPDAIATECGGCSDKQKEGAKKIFKFLIEKKPEEWKALEGKYDPSGSYKAKYDAQLKAL

>DcitCSP11

RPQNSIQSSTVKDEIPTYPTRYDSIDVDLILSNDRIMRRYIECILNKGPCTREGLELKRIIPDAIRTECAKCNPSQKKHVGKVLSYLFHNRKNYWDDLLAKFDPDKSLREKYGFT

>DcitCSP12

YEFENEENFDCEVLMKNERLVKGLADCLTSDELECGNVMFSQVKKYAPEILETVCAKCTDQQKATFKKCTNLFMQSHHDDYEAIMKKMDPENKYRGPLEAFLAEP

>SfurCSP1

APEEAQYTTKYDKINLDEILNNDRLFKSYFGCLMGGKCTPDGQTLRDILPDALETACSKCSDTQKAGTEKVFKFMIEKKPSEFADLEKKYDPNGKYRARYEADAEKFGIKV

>SfurCSP2

MVLADTPTTSPKVETKAVESGKSSSKDEIPDQTFDRYINNERYMLMQYECLMGNKPCDHVGRKLKAAVPLVVRGLGCPKCSQREEDQMKRIVSHVQRSYPDKWQKLIKKYGN

>SfurCSP3

DMPQSTYPTKYDDYNPDDILKNDRLFNQYFICLTKKKGCTTAGELLSAIIPDALATSCAKCSAKQKAIGEKVIRFLYFNKPDEFAEMSKIYDPEGKYLEMYIASGGLI

>SfurCSP4

ATKEKDPERKALYRLEYIDIEKVLDNNRMLTNFIRCFLRKGPCSPEARDFRKLLPKLAKTMCSDCSPRQRFIIKKVFKHLMEERPKEWELLMDRFDPQRKYAERLDTFMVDMTTPSTTTTTTSTTPSTPMSSTTQRIIEILRTSTEMSNESSP

>SfurCSP5

QQQQTQKPQQQNVDNIEMSIYDKMFENMDVNSLLKNHRLVDSYLKCFLNEGSCTHIGHEVKMMIPEVIRSRCATCGENQMRALKAGLRLFIVLRPDDWKRFLDVYDPDRTEWPHIKAFMESDD

>SfurCSP6

QSEKSEKPEKYTTKYDYINVDEILSNDRLFNSYYKCLMGGKCTPGGPELRTHLPDALQTNCSKCSEKQKEFSDKVIKHLMDNKPEEFSALVKKYDPEGIYKDAFKPKHNQ

>SfurCSP7

QQKSKDTRYTTRFDSIDVEVILKNERIFKRYMDCLLDKGRCTPEARELKRLLPEALKTECLKCSEVQRRQGAKVMGFIIKNKRPYWDLLLAKYDPQGIFRAKYNYNENNIEGVLKQLEREQQGLYGTYSNTTNTTNTVNSTSTRK

>SfurCSP8

GKLYKDRYTTKFDKIDLDEALNNQRLFESYLKCLMGDKCSPDGYELREALPDALATACAKCSDAQKAGTEKVIRFLIEKRPKEYALLEKEYDPEGIYRDKYKPIAQEKGIKI

>SfurCSP9

DEANKYTSKYDNIDIDKILKNDRVLSQYIKCLMGEGSCTQEGRELKRLLPDAIQSNCSKCSEKQRQASVKVMRHLRQSKERDWNRLLDKYDPQGDKRKNLKLD

**OR**

>CchiOR1

IRGQDELATIEEKELELKAARNDLKTDSDGFLEANVKSSHQKISGLIPNSLPVPAEYRKSSFNDLDEREITFDENYLKIRQVYERKYFKQLVKFHQKLLKNIEQMMKDISELVLLMVLGNYFVSSLALYQLTLQTETTSMTRLFKFLVEYVLVLVQFYTYCKAAESLDDNQSNTRNSIYFSAWYRLCPSVRREMCVLLSRLLKSNHPSFFHGVFVLQNPVLTRLLKVSYQVVNLIRLKSTRV

>CchiOR2

AFSTIGYLFYALAQVFFFCFYGNELIEQSSSVMEAAYSCSWYDGSEDAKTFVQIVSQQCQKSLSITGSKFFTVSLDLFASVLGAVVTYFMVLVQLQ

>CchiOR3

FKYAIIIPTLYAPQFVKFLNPLAFSCLAVNLFISILCLFQLVVSTVDMSPQRYAKFCAELFGVLMVFFMFCESSEMADEVNGWMRQALTQCGWENCSNKTKRQLLMLIRCAQQPNYCRFNNGAVIMSRLAFLNVLKCAYSFVNVFKSTTH

>CchiOR4

VNTIVLSVCLYEVMVFSSETIGQARYTKFVGQCGAVIIQYFFMCNMSEMADDCHTIMRRALINSGWTMSRNSIGRDVCIIYRRVEGGNHLTFNDGLLVLSRVLFVDVVKLSYSFCNFMRLGEQMT

>CchiOR5

MKLKEILRQINPVWLCLSMKNYLNTFLVSSHEKILLRSLLTFAEKIGIMHEQHGGKRIMQSVYVFTVYSILIIFIGCHLYNTITRSVRYLPKCFQAIVEDLYLGVLTYVCNYFRLHYEQLDSLMILLESMYQSNVKVRQICQNKSKLVLGLLGIPVIVGGAINVGEALLPLSPHNLDIQRMVYKTCKHPERRLPLPVRIPFVDETESWAFEPLFLIQIYILFLIVSIFITVFSILPIILIYIQGQYKILSKYIEKIGQDHRDSNGNAIEYTNIEINRFRRVEKGLLNNVKLARLGLRNVIKMSVESKKQYEKTYIKQIIQYQQKLIVMHNKVC

>CchiOR6

MQILDFFETTAQLHREHKAVCRLQNIEGIFFPVALVVTGVLMTLHVIVVPCLPKSSEELETLSKFYNLEYPQNVLAFPVFVPNVDISNPKLFYFFLGLEIYLAFLVSLAIVLTIVVYPLSVLNLKCYFTILRDFTLSVGKTHFNSSGRPIFYTNLLENKKVMRRYLQDGKKIEPPMSEQDKHLSRWFEQHPDLYEAFYLREIILFQKTLIRQRQCLDEYFANKFLLWYPMSMIVLVTSMYGGFTPILATTLARGKMIIEAGATLTYIFMHFYSGELLADCNESLGTGLWLSQWYTCSTRTQRDMIVFLRMNQKLDYTTVMYVLQVGYKSMMSGIKFGYSVINALRMRKNTRF

>CchiOR7

MVSFNQICQLLQYGGRVNLHQHKSNWKSTLQDIYVFFQETLCTLLTLCHLFSAITRAVRYLPEFFQTLCDNIIFWYLNCYCFYYQIRNRQLCRLIELTEDTFTKADQKIVQKYNRRSNFVSIGYFNVIFSYFMFTLILETAMPIPENELDIRRFVYRTAHPERRHAAPVRIPFLDESKSWTYEIIYVLQIYLLAFYSLWATSLSSTVPVTMMHAQGQYEILCKYICMIGKEHRDMLGNRIFYTSIERNEYVTESTPPVRRRNTQNRMNRKLKIYQLYEQNYLGQIVKFHQKLQHVQNEVSLQYLDLDTYLHIFFYDQSNFE

>SfurOR73

TAVLTITIFQVSFLSVNNVITEMQLLLMSLEEFNVNFPIGYNDEKNEGNGKLFDDEEGNFPRSKLKVLFNDICEHHQYIFRKIEILNEGYRYRLFYVNTFTCLQLCFALFCLQKGDLGSKVRYGLLSAAVILTNYVFSENGQRLENEGEKLREAFFNCCWIGKPHWLKSSLVILLSRMTKSPKIQAYGIFTLNKNNLKIVVQAAYSYYNFLGRFKERMNE\*

>SfurOR33

PFDSSISPMNEITRFIFCLTILLAVPLVTIRFSLLPVMVLHAVGIFETVSADIAKLKYSCGDNTEEIIIEIIKLHQKALIISKNLVEFFRPIILLKAVFSFWMFAVLMVVITEEPIGSSIFINCAFCMLCSGYELLLDCWSGEQLARKSEKVGVAAYQCQWDRMLNGARRNLVLLTLRAQRPIQLDVRPYLIPMSLKTYVQIMKASFSCYTLLLNIKAEKH\*

>SfurOR15

AFLFCEVFIVIMYIGASVPFLVYLVFEVNLQYMILERSILNLELRAEELYKKSVDLHSEIIVKNSLLYEDCVRECLRENIHHHLAIARLYNLYQDLTTTIYGIVIGLSMSVLATLALVLTRTKLFSFETMKFTSLFVIELTMVFGYCFMGTSLTEASSKVSNALYNCSWFNFPANQKKTLLIFQLCTSETIVLKGNGLFEINLQLFVQIVRTTYSIFNIFSSTDY\*

>SfurOR124

MPENHSWKVLFYNIFTTIVFILITMMVGGTMMSAIVMVKIFPTLGVLQGYLSGTGTLVMLLLFILIKTRENLNKLVESVNNLYKFDNEDEDRKLYEQYSLIILSFIAVTMGSFFLVFVVITENLVDKHVVETNVFNHENPERVIGFMPWVPFDYTISPYFEISRVCVYAIVSAAYPVVVIRLALMPVLIMHVIGEFESISLRLSKISLNPGEGAEKRIEELIKSHQQILL\*

>SfurOR85

IFYNPVTQSNISTDLTQYVILALVQCLYLYLSFNVCMDLYYSSVYSCSNVKTDMELFMLSIREFDEVCEIAIESYGEEMGRERRRILREYVKSLVRQHQIISRKMELLAEGFYAETIYVNAFVCVQICLAVFCFQRTEIMIFKIKYGFVAISTIVLCFVYSEECQVLYEKFEDMANSLFHSSWMTKPPWIQRSILILITRNTRVPIIGIDGIISTNRSHVRKVTQAAYSYFNFLSRVVGK\*

>SfurOR123

MFHPLKLMNFFLTVTGLNPPPNPKGKVSYYNLLTIITFSLLSLLVVGTLRSATIMIKIVPTVGTLQIFLSATGFMMMIMMIILITNRQQLLALVESIDNVYKIDNSDEEKKIFRKISLKLLIFLSASIAIALSGFTIVTENFMDDRVVEANTNVFNRENPERVIGFLPWVPYDYTVSPYFEISRVCMYATMIMLYPVAVIRFSLMPVLILHVNGQFESISSRISQISSNPGSEIDESIKEVIVLHQQILL\*

>SfurOR11

NICPTLTIHHVGLLSRGLQICQCLFNCTDNYFLMVCDDNLPMVHVPQIYATIHRMCHSSSQLNMRILEKIDEIIASKLTTAAAQTNIESYNSKPSEKNHLKDVFNGIIKDHQSICSAAKLLNGNVNGITMGFMNIFGFQLCIFLMFIVEAKDISLKVRYVFRYYLVLGILFFCTKKCQRIKDKGQQLRDAVYGSSWTDKPRWLRKSLTVMMTMANKDMQISPYGIYVIDMSYMTNIIKASFTYFNVLSALKA\*

>SfurOR122

MESTRFLLKFTNFVRYGTPLNSLPFLSAIIAVALLFTNLFMVILYEHNSTERRLKAMAEIVSVTSVFSCVVQRGLRPEHAMKLIELIRGELLAYNCYIISVGKVKLGEIYANYDKKREDMERLYRKMLIVTTGLYFAYIGRNAFNELLEGKNKSDRKWPTPYIYWCPPGYDSFYTFIFLEILHIYVFSFMLAEAFCLMLSTCLATERVLADFQAIYMLIEDLSEQFMEHNIEFNDNYPQPNQKIDYDDKNVMRNLENYMALLIQCHQKLNR\*

>SfurOR120

LYFLAISSYHLNLALISLSEFVFYLLDIKTDEKPPQPHSLHAFFTFPPSIVPKFFDKLFKTSLELFFIYYGTIINANVHIMQSLSISNIVGEMKLFHLNFSEIDEYFEEVLKSENYKNASDVIRKQMENKLRLATINIVKHHQNIFRKVQLLNYGTNYCVFCTNCYLCLEMVFMITMFLKGDSIDKIKYGLIFIGFVLFEFIYNEAGQRLEDEGERMEMTLYDSNWLEKPTWFLQTLKIMMIRSNKLPKVGVLNLFTLNRKNKTEVMRGAYGYFNFLNEF

>SfurOR89

MAKNLYIVLILLGSLMITRNILKYLLGMYETPENEATRWPTPYLSYFSQYFDNFEFFIFFYLLQAVVIVLTTFEGVLIFNSFHLLTEKLLTDFEIFYILLEKFAEDFPDVSIGVDCGYMNNSVEYPNKIDMEHPDQEIICNSHSSSIDINLKKDMRRIVALHQDIYRNFRICAYNSSYVLTIANFSVLLYGCTFAYLMLTSNDPKKTVHYAMFFILMNLTSFNAYNNGQRIFNQNDILRRSLTEVPWTDKPLWFKQTLHIMMTRANVDIEMRPYGIYTLNYLSFKELMKTVYSVGSVFRKYDSK\*

>SfurOR94

ILLGIFERHKLRLRRMKCFKEISSKFYTEINVMESHSGHFLKLFLSMNFVYSYLPFLNAVYIRVTSEHSTNFKNVAQISYFYYPVSEVTFKHYCFGAMFLYIGLIYASVFSFCILYSSYLALHCVVTAFSQLRTLILEWDESSEKEVEGEVNMEECLLEIVVFHQEICSEARLLNKGMETATMNLLQGCVVQICLSLFNILEGGDKIKFGGFTIFILLMLVGFSSFGQILEDRIARIKLTLWESRWVEKPVSVRKTLFMMMIGASTQIELRPFGLRAGLNMQSFAKVLRTVYSLFNVINHSSSIHNTDFS\*

>SfurOR22

MVLLLSEVGRAPEKLQTILGIVKYGVKYSINMKLSEKQKLIIKQANKNDLLMCFCFIGTVTCYAITTGIIPAISGFIKISTGDLDDDILEKEIPMPVAGSWLPFSIKNLSTYTLLAAFQQFAISLHLFIYMGWFAMTSSAMMNISSALKLLACFVDEMDERLGNIQEGKPLDNYIKFMVDYHNAIYKTIKDYDSATAVMMLLLYAVCVVEQCVSFFCIYEVNDRGLQITFLGVLIVNILILGSFTFFGQFIIDEGEKLRLSLNHSNWINKCDSYKRSLLIIMANTQKDVALKPAGLYVLDRHTIMLIANASYSYLSLMRNFKK\*

>SfurOR62

NGEVICRNEELFEKNCGVIGENEDLCERTLNPEIPSDNKRLQKEFFHRKSMEIIEEMRSTNLNYTRTGLLLLQGLSMAFLLVPLHGFISYMIGAIEFQELKFAIMVYEPFTGSSSPANFAQFIAVTIVQALYIYLFYMLSSDSFLIESLSNCTLKTEIKLFLNNLEEFDAIFCARKWDDKDGILSARLRKLKIFEKFGRIAAHHQIIFRETRIYQKTMAYLTVYFNLGVCGGMCISLFLVEQGDFFFKIKYAVAACCLGLALALYSQEGQDIEDGFEEMKDALYRISWHNLSVSLRKSLAILLTRHCLPPKVTGSYGIFVINRKNLSMI

>SfurOR86

MININYLYSQYAVTLVHVIEEECSVCERDCEGREGLWEKIDLIHKRNFEVMTFTDKCIRITFIIMFWGYVTKNAIAHILRIPIYTDVQSIPWVTPFLWFTDSEFEASLYFFLIFIVHTLVHVVIHLEAYLTISLACVPVQTLFGDFEILFILLNQFREYFPDNNEDQNCCEHDEKYSSLKQYMAKIVQCHQRISRNHNICSRNSAFLILAAVIVVMSESCNNAFFMLKAQGFKKAVLFAIMFVLVNIALFFVYQNGQKIINQNDILRRHLAELTWLNKPRWLRQSLHIMMTRANVDVQIKPYGIFTLDYNAYKDLMKFFFTVGNVLYTRKLSNQT\*

>SfurOR59

MLERELQLKYLQEQQLILSNQLEDSPKKHCAEEAEKENSTERVSSEQSQDEKQDQASQQQTTKEQTFKKLSSSEIRTGPVSSRIQQIIQRIEEAAGTSAKPQKAVQNDFYEPVDTSDGIVHSRTIRDSNLTMFEVIDVFTGAVPGFIAFAMLCCFCWRVDDVRCLKQLFDKRLLSFGTNDDKEIVRENIKRSNMFIFIYMGPVYSNLIFWLIRPLFSNDKSIFNTINNGTEIIYKIVDCHYPFDYTVTPNYYYVCLYEIVGVYQLITLMLVFDTLFGSMILVFCGQLKVIKFNIDKLKMDKLQISQQNGEQRVFNVTMEENLKCIIKNHQKLISPVGQCD

>SfurOR111

MGIKDLVHVTASFSVLIQLSFNPQGAVKLVKVIENGCIVDISKITGRERNWRRIKKCYMMRRKNMEKMFKFIYYLIIVVYVGAVNRNLFSSLLGSTSGSKKTRAWLTPFVYWSPSGFDSFSYFIVIYIFHSILLLFMAFQGFFIEITVYLATEKVLADFETIFLLLDDIAANFSEIELMDETSTDNEHRINFLDSKLRRDMSLIVECHQRFNRNFKDCADFSAYGILVNTLNISIDTVFNIYLMMKAEDLRTSINYGVASFLVNLLGFFRFHTGNKIVNQNDIFRQAIANLPWSDKDQWFKKTIAIMMGRANIDTEIKPYNIFVLDHKTYKNLMKSIFSYGNFLYTTSKPTE\*

>SfurOR61

MVLWQIPKEDWLRIKRGLEKSGIRFVIASGLLVSPEQPWLTINLLMMLLAIIFMSFFVYVGGVSMYYARNDLTTFVEIAHAYTFVLAFWVLLTVHFVFKLPVLHELLQTVDGEIFEYKNKCCEEKEAKVKSQNRFYHLLFQTVLDSAVLVAVFILGFLAPAMIKLFEDENRRKVKEINYNFPVPLWFPFRTDNLLGFCFAYFLLMVEILLIGIYLLAAIPFLVFAALEVNTQYRILKNSILNLEPRALEKYNGMCRVSNNQLEILRQDSFFKKCVQECIKENILHHIEILRFFSLYQDLSSTIFGVIIGVSMIILASLSLVLTKTELLSFDTLKFAFFFIVELVVVFGYCLMGTFLTNS

>SfurOR129

MAFFLYVGAVSMYYAKDELMSFVEIAHAYSFMFAISTLLTLHYLFNLRGTLEVIKLIDSGVFEYRTKYGAEGDNKFRKTMEFYYRIFERVFRSAIWVAYSLLVIFAPLLAAVFGNGYGHRVREITYNMPVPLWMPFNMDTSLGFSIGYSLICINIGLIGFYLTASVPFIVFMATEVCIQYGILKRSILALEHRVLERYIGCGGNTESKMAELRDDPLYVRCVHDSLKENILHHIEIVRLFNLFQDVTSMIFGVVIGVSMVNLLSVESLKFSFVYLVELMFVFGYCLMGTFLTHASEEIRTALYNCPWLNLNKSHKRTLRIFQFRTSINIELKGSGLFLINLQLFVQYVAAFAVSSFAATVD

>SfurOR132

MSFFVYVGGVSMYYARNDLTTFVEIAHAYTFVLAFWVLLTVHFVFKLPVLHELLQTVDGEIFEYKNKCCEEKEAKVKSQNRFYHLLFQTVLDSAVLVAVFILGFLAPVMIKLFEDENRRKVKEINYNFPVPLWFPFRTDNLLGFCFAYFLLMVEILLIGIYLLAAIPFLVFAALEVNTQYRILKNSILNLEPRALEKYNGMCRVSNNQLEILRQDSFFKKCVQECIKENILHHIEILRFFSLYQDLSSTIFGVIIGVSMIILASLSLVLTKTELLSFDTLKFAFFFIVELVVVFGYCLMGTFLTNSSLEIASALYNCPWYNLTEKHRRMLKVFQINSSISIELRGNGLFLIDLQLFVQSIPYLIEAHIFLKLD

>SfurOR76

MDEEANIQDYDKLKEVMFEIIDLLKLIQFYPPSQVGLRGTFLYLFMIILVFQPLAAILANWADWDFNSRVTAVDNLSFSIGVWALASDIFLMPEKSKLFFDVIDSKFALHREKATGDAIYREKCELIEEMTNEGHRLVRTTGSVVMYYFASQIVVPIFGLALYFLKSEPAQKLPLLFKFYNPLTLTLEVRTIFEYLLIIFLQLSFVCYAATFATVIHQMQMLSLHHMRVEMRLFHMNVKEIDFYYEMMIGEDGERGNKADENGENERIDKKEEKGERPTEEGLRIMVRKLVKQHQTIFRNVKDLNEGFKFRLFYLNVYICLQICLGIFIFIKGELLMKIKYGMILLSITVVEFLFSENGQKLQDEGEYLRTALYNCN

>SfurOR63

MVVRPFRLYVLDIGCIVWEKSSILTKVQVLKSGVTTQAPATKFFFTVSLIIQVDIILNLFTEWRDPISRLLSMKEFILLWNGILGCMSSKEGRKMLNYVRQHFEKYKVYEKTSSFEERKIFEDRDKKVLKYNRVVSFLLTYTLHITCGLVPYVMILISLLKSYQKGENFKNLPQILHLYFTKAFDKSFTFQLIYQTSIYAWYGLLLYYWTIVGKGVFFSCTCLVTEISLFCHEMEKIDEINDDEGEGKLRAKLRQIVNEHQSICRNIEDFGDISSKPLFGIINLYGSQICIYLAFITLIDDIHIKLKYFTRYFITFAFVYFSASNGQIITDMGRKLRLSLFQCSWIDKPVWFRKTLFFMNIRASKEMVIRPFGLYVCIDFFA\*

>SfurOR57

MIFSALVFCPEQPWFTFNIIFISLTLSTMMFFAIIGSVSIYYARNNLVTVVEIAHAYSFFASLFLVLIFQYFKAPKMYQLLQIMDNDVFVYKTKHGREDDEKVRTSMRKYGLIFQTSFHISLVAAITLAQVAPLLNNMLGDGGRVKVKEINYNFVPFWFPFNTYTLTGFSVAFLLITTEICLVLFYVGIGLSFVVFIALEVAAQLRILHDSIVNIEPRAIERYRCWRELGKHNDMLGDDPLFQRCVRECLKENIQHHIEIIRFFKIFQSVISNMLGVSIVDAMSLLACLSLVLTKVEPFSIEAVKFTFFFILELVFAFGFCFMGTSITEASKTIPEAIYRSPWFRLLRGEEKRTLLIFQMNAARNFVLKGSGMFAIDLQLFVQ

>SfurOR134

MRSTRFLRVFTNFLSNDKPFGSLPSLFLIVLATCVISNFVLVVLLETEKVEKRIKALEECFIILSALTCVVRRIKNPKIVMQILDLIEGELLTEVGNDYRPCRSNKLEKIHRHYVKRRRTMENFFEKMSIISIGMLFGCIVRNAFGQTIANDENFKDWPTIFVYWCPPGYDSLAFFLVVEVLFILLFMFTMAEGFSLVLTTCLATERVLADFETIYMLLEDIIKDYAVIQSDSKSNQDDQFSRHMDLKRDMKILIKCHQRLISNFKVCADYTAFGSVMCTLIIYADTIASTYTMLKAYNLKMMVHFAAACIFSNLTILFCYHNGQKLVNQNDYLRQYLMEIPWTDKPQWFKTSLCFMMRRANVDIQLMPYNVYVINHESFKNTDK

>SfurOR31

MLDLIYTILHGEKIDRNQYNSFLKIMKLLLIVSGLRKQSDPEQLNTILIIINVILLVSGCITCLLSCLRFINDLNTFTEALMFFILFARVIGNYYSLGTNLRKINRFLWACETNFDEFEKKNLKEISNLKQISDHSVLTFVVVMVSLFVSMFVTYTSSFRFFPITSPWDNQIGSSVFLSNIALLYQIVVCFISSVVSLTDATMGLGSVNIICGETEILGRTLLATDGNPRLKLCVKQHCFLISLMYNIQSIFSLNIFLIFISCEFMLCLCSFQIYQMHATMTIASLGKNICMLCALLFHEFVYFFYGQQLVNKTADLHHDIYFSKWYKKPAQFKSSTSIIQYRTRKPFVIMAGKIIPVTLASYVACLQAAFSYFNLLKALSHNQE\*

>SfurOR18

MLLLNLINYLKSSNTEKYECHINIMKVLFFMLGLWKSPDSREPNYKIVIAIAANLTVSCIFLLFALHHSVVNVDIEGMTEALMFFILFARIILSYFWLVKRISSINRLIEAAERNYDDFEERSIAHKTGLKSECDSWNLLFFKSLIWMFCILQLLYAYATGFYMPHSTEKKYMFPIRSPWKFEESGNLCYYLAISNQFASSALGCALGTLDVTFSVMSINILSAEVDILGEAWKQTTTYNQLRRNVRQHVLLLSLMNDVQSILSFIVLDMFVTCEFMLCLCSFQIYQIYSTTSFVSLMKNICMLAALIVHEFVYFFFGQRLVSKTMDLHRSVYFCEWYNETKSFKSSMNIVHIRMNKPFTILAGKIVPVTLASFITCLKAAFSYFNL

>SfurOR108

MPDKKSTRECVQIVLNTVSLVGFNHHKTKTSTRGKLLFIAVILIEINLILTMIKNWTDFEKRILAIEDLNVNTLALFMIGELIFFNQNISKYLGMIEKDCVRGWGEYDKYNEERNERENFVVINCRKALVIIVFNNAVFQLLLTFYFHLVQKAEVVDLPIPIELYFKDSISTFTIYTIVFLLECIMYSYYAFLAFCEYAMGFVVFEDILFEMRIFCVMVEEFEERNRKLRQSSEELRGFLRKLVVHHQKIMKKVSIGQKIFRSQVMYVCQGFCIQLCIGAYLIENEQMIVMKCKHILVLAALTVVLFLFANGAQNLLDMNNELTSALYNLQWHEKHHWFQKDLKTLMMQVCIEPTIKFFGVVTVDRSSVSSVFKGAYSYLNILHSLAEFK\*

>SfurOR116

MENTKFMKNLVEWQRYDKHNSIPFLLAIVLTVITISGMVSAAVLVENEDMKIAASKDVVMLSLVFIIIFKNCVNPENVMAMLNLLEEECSVNVGDFEGREELWKKIKIAYERNIEGMILIDKYIRITFVIMFSAFIIKNAVAYLLRISIYSDSQSLPWVTPFLWFTESEFKASAYFFSIYFLQVLVLGIGHIHGYLVISSVTLSIEKSLADFNSIYIFLENFDIYFPVASIENREQHWLVENENMYSLKKSMAKIVQCHQRICRNHKICARKSAFILTCTVCATMTDSCNNAFFVLKAQGIQKAVTFVIMFILLNLVIFFMFQNGQKIMNQNDVLRRHLAEIPWVDKPRWFRQTVHTMMTRANVDIEMKPYGIYVLNYLSFKDMMKLFFSVGNV

>SfurOR98

MKKRRDQESSAASEKKYRIPNIPILTSDLSPTPAYGFFYLVVLIMQVDLTINIYSRWHTVISRLLTLKEFLLSWCGLLGYLASNDSKNMLQNVHNHYEKYKNGENDNFTNEHMEILKERDKQILKYNKVIIFMLKYILHIMCGLVPYVFILISIYKCYKKGENYGKIPEIIHSYFPKAFKNSMLFQLVYHTSIYVWYSLLLYNWSIITRSMLFNFICLDTEIKLLSLTLKEIGEWRGEGRRKLEERLRKIVQQHQSICRGLMDLEKNSSKVVFGFVNLYGSQICIYLIFITLIDDLHTKVRYVSRYLITFTFVYFTCDSGQTITDLGRKLRVAFYDCSWVDKPYWFRRTIFFMITRASREMVVRPFRLYVLDIGCIVWIVKGTYTYLNFAKKLVD\*

>SfurOR69

MTTTSSFLVRFNDLMRYKRNKPHKSLPLITFIIIFLYVQLDIIVTLAIEPRDLEQTVVTLTDSVMISILFCHSVLRKLKTHNVDNLMQLIRSEFPFNSNDLLVDDRLEIEQFYRKEKKYGTTMTKNLARIFFVYNLLVINRNIFNYLTGLTHEDYNIWPTPYISRSPPFLKSPLFFLYIYFLHALLISMFMLDVLFVIMLVFLSTARIVFDFETLHILLRQLSKNYVEIDEKSIQAMKNLRRDMARIIELHQTLIKNFKVCVEGSGLMISVINLVIMIYCCTIAYLTLTTNNMKKRVNFGMSFFLVSSSLFSIYHNGQRIYNQNVILRENLEKLPWIDKPKWFKQSLHIMMTKANDDLQMKPFGIYTLSYMAFTDWIKFVFSTGNLFYSKRTSQA\*

>SfurOR130

MTKSSEIHELDWNLIYDGLEKTNLSYIPVSGLIIYSSGKYRTLSLFIISVMIFLLCFICFILSITVFKSLDDFPVFVETAHAFSLCMLVLKTLIVHHLRINSYLSLLTTFSTNIFNYESEFARQKTVEMRVKVNKHIKLFQNMIVFICLSAGFLFLVSPIIQAKYMNKDRDEIPTLNYNYPIPLWFPFDTSNVWSFRFAFGYCLVVCTMAVLIILIVTFVPSIVLFFMEMYAQLEILNHSIINLDKRAALLFNSSNNIFGNSSSRMEMDTSSLIENGDYQRCLLYCMKKNVQHHWAIKRSELTSRNGLQIEAESLKTKIISLLKVEKFRDTFQHFSGIFLGDVLVGSGLMIVTLSLTLTKSDTALSPDNIKLLFLLVCELLNLFGYCFCGTLVKDK

>SfurOR25

MVRAGKLSTEEESLLEIFSDKRISRKMTVLFFALTWSVQINLIFCLVYEWANLLNRILVMKEILLSLFAINVYFIRNDMLVLENKLIMRYIKNMNQHNTSKERDRLITEQSQFMKWFGGVASVRVFKFIFIFGACLPMLQVSIALARAYFTGKLEKVPSVIFVYVPQVFRTIPGYLIIHLLCFTWSSFITAICAVIYKVYLTSMKCVETEMDLLCQSMFEIGPMLANDYELNTKEEQRSEKKELRHLFSVIIQHHQHILRSIKLLSKHLKLMIITLLNVYGLQTCLYIILTLKMEQVGLRIKNASLYMMSMLIIYTCTKTGQELKDKGDKLRMALYDCSWIDKPVWFKRSLLVMMSRAIQATEFRPFGLYSFDMNCMANVLKATYTYFNAANEFLK\*

>SfurOR93

MDDIIKVRIMNSTGTGFLKTYFTLMRLDKRSLNNSSPFLLFLALLAVTLAGVFEGFLQESDGDKMSATVSTIMVLTIMISSKIRHCVSPQQFEELMRLIEEDCFVTRSDFSERLGTHWEKVHQLHRGTVENMEFVHHYLRLVTSIGTTGFLSKNLVPYLLNMPLFVMDERSDPWLTPFLVHRPSEFEPLTFFTYVFTLQSLIMILVCVEGYFLGLVICLSTERMLGDFEIFYQLVELFCQDYSAELCVEKQAGEPNQFHQMKSDLTRIVKLHQRITRNHRTFSDNSGYLLSTAIFAIITDSSMSAYFMLKSTEVRKAAIFGITFLMINMFLFLVYRNGQRISNQNELVRKSLAALPWIDKPRWLRQNVHIMMTKSNVDIEMKPFGIYVLNYMSFKDLM

>SfurOR45

MENDIEIKLKSKLKKISEICKNYIGFQRDGISFILFYGAAINIFAFCALSGVKAVQLFSSGNDETLISNECLNAVVVFFSLLSAEIKLILYFKNRRKAYKLYSVICKTLPLNSNDMEREGEETIHIAVMILIWSSAAATLFALLNSNVLSFNRGETILLFQIYLPKSIERNAFTFYAVYGLQLLMCTHVVAINGSTLASFAHASNVLCVQNKVLGIAICNLTLDDGGRITDVKLTFGHRRQEKMREYVEFHLHLINIVSQLESVFGGLIFWEFVGSQCLSCLLTYLSIVEANKGRIFSSIRTIFMIPALLITSFIYFFLGSKISEASEELRKLLYSSYWYDQPLWFQKCLLIMMKRMQKVLTFNSVHIIPVTLNSFLRALQAGFSYFNFLNAMTGRYK\*

>SfurOR42

MRGFSNPEDCFRWVCGFLGRPYPAGKIHFRFYIIVILYIMNFLQLLLGMRPRWNNFQARYQSIEDLIVLAFMTIIVCEMGWSFNKIVVMVEIAKSNLYPASQPLSDRQKSIIEKMNDEILGIIKTFAFIVAGFSLINGFIPFLHGIFFVSRKDINNVSQEQIPMPVECWIPYNIEDVITYIIFVFPQVIMFAMCSFVGFIWFTPFIISLFHLMKEIDILCHSLNDMDYWLEEKTGSDYDFHLQKYFKGVIEHHQNICRTVQQLNEALSVFLFLFNCVCCAQICVSLYSCFETSDSVSQMKYILLLGPVFSCFYFFCWSGQELINRNDQLEKVIANCSWMNKPKWFRSSLRIMILRSSKPLQIKPFGLYTLNFNNIMMVCRAAYSFFNFMHKVQMKSVY\*

>SfurOR78

MDNTVFLRKFIELFRCDEPRKSVPLLLHALLVFHNIHNTVKAIAVEDDIVTAFTAIKDLSGHTLMLTFSINHGLNSIKTLNLLELIESGTIVKEEEFHGRMNKWERIKIIDDNKIIEMRSKYKYLSLVMALFYVGFVTKNAVNYILIDIPISNHPSNSYPTPFLSHIPLEQQSLISLLYMFTLHSMTTLLECLQALMIISSTCLSTESILSHYETIYTLIEEIENDFSDAEIFNDDAGNMEILKEDMGRIVRCHQVINRNCKICLENASFGILIITVTITLDSCANAFFMLKSEDIGKALVFCIMFMLINSCLLFVFHNGQRIFDQNDKLRKYLNNIPWTNKPIWFRKSVNLMVTRANKDNMMNPYGLFILNYQSFKDLMKTVFSMGNVFYSIKESRF\*

>SfurOR23

MESSNKPANTASRKYTTLTLPPKIVSGIYLILTILLQLNLMLSVHSGWNDFIQRLITIKDMILTCFCYMSFARVIGRDTTLLCEYVEEHISSVNIGKNRIEGQNLILLNRERKLETTHKIVKRYYYLLVGICGLLPYVQSLKVLIRADYLERKPKVAFLLNVHYPEEYRSFFMDLIVQTFLLVWYCVFIYYWISDLKAMSLSFQCITTEMELLRNSIDEMDTIIENHHLAINKQKNMDSDLFNKIILHSYLSGIVKSHQNICSRMNFFNINLKNLVVFLMNVYALQLCLFLIFVIELPDIFSKVRYLLRYSIILSLVFFVSVDGEKVTSEGEKLRRALWMCSWTDKPNWLKMSLLTMMTRATVDLKIQPFTLYSLDLTCFTQIVKGTYSYFNIYKSLKK\*

>SfurOR107

MDSMKVEDLSSLPLSEFGNKLPELLSTLYLLFTCCMQIDLIVAMNIQWDDFILRILSIKEFNTTLFAMVGYLSMNFEVAHLDRMIYLHFRRLNGENMKGNRIIESRDTKKKDFERKASRIFVAIFLFGSILPYVHGVILAVKNGTENLNFEKLPYIVYTHYPENTRTVTIYLTILTTQCVWYGLMTLQWYFLYKSFFVSSLCLMTEMELLIKALNNLDCGSAAIKEKNRDEYMDLNRIENAKNQSLGERMDRIIKDHDIMCRGLETLNTGIGFMYVGFYNVFALQMCLYLLFVIEMNEMVARIKYTATGLIVFSLSISGSKIGQDVADQGERLRLAIYQSAWIDKPVWLQKYILLMLTRASCNMELKPLFGLFILNMSSVTKVVKGTYTYFNLVTSLRV\*

>SfurOR8

MDQTITGASLVSCFGEPRIVGFKGALFFVLTVLISVDLGFCLVYEWHDFIKRLLTLKEIALVIFCTGGYFAHLNMASVENEYIFKYLKYVDEPSHSHSPKKLELINEMNVFIKWLSAFSTRAFKFLYIFAAVIPLTHILIVLTKAHFSHKKLDEVNIPSVIHFYVPMKLRTASGYFLTNVAASTWYAFCLYIWSIVFKLFVIGIGCLCTEMELIFDDVNEIDHIPPAAETNPSKPIEGTMHVNEILLKRKFNSIIEHHQDITKSMKLMNRNFQTTIVLFLNVYCLQLCLYLVFIMKLEDIVQRIKFLALYIFALYLQYQYAACSQRIKDRGETFGETLYECGWVDKPQWMKKMLLIMKCMADQPMVMKPYGWYVVDRVFMANIFKATYTYLNVVNEFLK\*

>SfurOR131

MREAMQLRGHKEGEKSSFLSKFYIFSTVVYILNTILDIFNLEAGQFEEKIFRFKNINMLLCGLAYPLVDSDTFRLLFSIEQQGSFETSLRSSDAIKVLQQKLDKELNQINKLTYFVIVFIMGTLSIAPLMAAILKTYPKLLTGSWDTINVTKFSLPISFWYPQEYANIYTYILLYTLQIFYIYLFSGYMYCVLTSGFMALKITIYNLKYLCVTVEEGRNRLEEVNKNFGNGELSYEDRSHLERMLSLRVYLVNIIKLHDMICRSAGNLNRDLERMYTVFNNTICFQICVCLYSSVKMEDFVLKVEHILLVIPLAYILFLYCSNAQELLNEGENFRMTLWGSFFVDTPKWYKSSLLIMMIRTTKELEIKPFGFYVLNLKTFSVVMKAAYSYFNMLNSLKKRI\*

>SfurOR9

MEDRVSSESVISIFGNKRVTGLEAFIFLSLSLLILLNLIFCLIEEWSDFFARLLTLKEIMLILFSAIGGYVVQFHMRDVEENYILKYLRNTKNFETTEEKRKIIDGTNNYIVRHNVVTLRAFKFLFISGGCLPLLQITIKTLKQYLTGIEAEKMAFVIHLYLPEGYKTPLIYLLTQVAAFILYGLLVYMWGVNYKVFLIGLKCISTEVCLLVESLKELESFEGKSAPAELAENEEQMLAVSGFEERKLREHLGRTIEQHQDVLQSLKLVNDSSKLYIFLFINVYSIQLGLYIIFVLKLKELAQKMKYVFTYMVILFIQMQWAIYAQDIQDNGEKLRMALYNCSWLDKPQWMKKSLVLMLMKANKPLELRPFGLYALNKSCMANMMKATYTYVNVVNELLSRK\*

>SfurOR90

MEKTQFIRKYTDFVRYDKLWNSLPCLLIMLIGILGALNSLIVVITDQQSFEKRVLGVKDLLTTFLLILNCVERSFKPHKNIKLVELIENDFLVNHHEFIQRGKKWETFDKYYNETKMKMQKTSQNLLIVFSIMYVGYMNRNIFNKLLRDSIGLERKSMDLPVTYVYWSPDASGSFNSFGFFAYIYIFQCLMILIFALETYCIQISVSLSSERLLADFGTIYILLDDLAKDFPEITGTSHQHDNDNNKNLEKDINRIVRCHQSLIRNFKEAETNAGLVIIVISLVVFCDTCIVFYLILEADHLLTLITYAISNTLINLAILFPYHTGQRIANQNDILRQCLANVPWIDKPKWFKKTLHIMMMRANIDIVMQPFGVHYLDHMSFKNIIKAAYSYGNFLYSTNSK\*

>SfurOR128

MRKFLMQRGHFERKSMRVLAKFYLMLTVVLIGNTLQDIYYLQADQFEEKVFRFKNINMLICGLAYPLLDKSTYRLISYIEAHGKSDATGNNNSSKSRLQLQNKMNKDLNRVNKLTYTVVVSIMGTLSVAPLLAAIFKIYLQISSKTPVDFRSMSLPISFWYPEEYASFFTYFVLYLLQMFYFYLFAGYVYCDLTSAFMALKITIYDLRFLCLSVKEWDEDNGGLINKEEVLKYTEYRNESLEEEMVTRYRSDIVNVIRLHDKICRRASSMNKDFEMIYTIYNNTICFQICVCLYSSVKMDDLVLKIQNILLIIPLAGILFLYCFYAQEMLNEGERFRSTLWESSFVDKPRWYRSSMLIIMTRNAKELEMKPFGFYVLNLRTFSMVMKAAYSYFNMLNSLKKRI\*

>SfurOR80

MVDEKMSSQTKVDKISSSLKTARNLRLPVWYRWHAQAWKFLTVVLQLDLIYNMHQMWNHFVLRLLTIKELNSTFFGIMGYIGMYDSADLFTYVESHVARMDERHRAGDTKCSTTKQRILDDRDTQLKRSAFAVSFLFGTLFFLCALVPYAQTFQKIVQAYLHDVTLGKDVSMIVYTYYPESFQTIPLYTLFHNLLFFWYSSIVYLWAMDLRAVLMAFECLNAECELLVASIEEDLASSAGEQLRRNDLELRRRLRLIVIDHQEVCRNTRILDKYSRNILMGFMNVYGVQLCLILIFIMEIEEAGPRLRYLFRYCMVLSLMYVVSSQGQSVTDRGFAVRTALANSPWIDKPKWFKETLLIMLTRTTRELLIKPYGLYTINMNCIANIVKGSYTYMNLVNNFRKKN\*

>SfurOR82

MIWMRSTSLMRQIIHLLRFDRPYNPLPFLLVTICHLLTLSNILIVFLNKAEHLETYVIAAKDFTLITSIFSVTVKRFLNAPESVRITNIIEEEHVIDCYQPDYNERKWRRVKKHYNKQKKNMQLSGSFVIGLCFFTFIGIICRFPVLYSLDPDLKKYRGKPTAFISYIPGDYSQYTDFYIYIFVLHCLIILFQVVEGYLVHIALLQCIQKLLTDFEVIYILLDELANEYADFDCVTDKQLPDSNAKLRKDLRLLVQCHQNLNWTLNYCVKVFGYGIFVYSSMIALDMCLNAYFILQAKNVKIIVNQVLSCITYSIIMLLCYYISQCISNQNEIFRMNLAKVPWIGKPRWFKQTLIIMKIRANADSEIKPLGLYVLNLSSYKSIMKGAFSFANIFYTTKFSQNNS\*

>SfurOR127

MGRGYNCFLALIHNWPDFFKRILIMRDMNVLLSMYTMYANFALRPETILNLIKIIDSDFILLNFHNQTEKQTVIHEKKTRLSNLEKNILNGNIFCITGMTVMSLITSGYIYFLTDQPVVTDLQLPYPFYFPKGYENIRVYLLAYAIDVVITVFLVFATSYCYFSTTIMAIERVGIDFELLKLSMEKLNEEFSRMKQEEEEEEEEEEEEGMNKRGKRRERNTIERCLILILNYHQNLLRKSKELQKNSQFVLLVAYQLTCFFDVGNFYCFYKTNDLKLRVLLVIITVLANLLLFYTCDSGQRMIDATNDLKLRVLLVIITVLANLLLFYTCDSGQRMIDASEQARETMYFVWQNKPKNIVKDLFTMMIRANRDVHVQPFGLYTLQHKTFANLSAMSSKSEPVFEKPL

>SfurOR133

MMSSNNNKKYDKLKKALNDIIGNLRLLQFYPPDEIAIRGRLLYITILLLLIQPAIALLENWTKWNFHSRVSTLDNLTYSLGLFCLSSDLFFMPQKTKILLDVINSDFSIYSEEIRSYKREIYIKKCKLIEDMTQEGYNMIKIIANILQYFFAAHVTIPIYGICFYLIKSEDVEKLPLLIKMYSPLTLSLEMHSIQEYLMMSVLQLTYMYVSLIFVIILLHMQILSIFHIRVEMKLFHMSMELINKYCSEMTPIVDGGLQYVPESEMKFMMRELARHHQTIFKKVEEVNSGFKFRLFYFNAYFCLQFCLGIFIFLKGQALLKLKYGIILVTIITVAFLFSEDGQKFEDEGEEIRSILYNCNWQNKPKWFTSTLQILMARNNKLPKIALLHVFTLNRTNLTVIVREHY

>SfurOR79

MDATNFLRRYIDFMRFDKPQKSLPFILFTLMEILIEINTFTAILTESEYSVKIFLALQDLFIRFVLFCNMIKRNLNRREDFKKLLHVIEDDFIVSRDEFDGTEKLWNTLENYNIKKRKFMEMIFRNLAAVFAVTYIMCLSRNATNIFIGFTQHSENKSINSLTPFFSYCPPEFDSLVFILYLCFLDALLMGAYIMEMFITFSLVCLSTERVLADFDTLHFLFNDLSMYAELNSNHQVNKSISHTKYAMNLRKNMGCIVRCHQRLIRNFQMCSEVSDLLVSIAVLLVMLYSCTVAYMALMVDDLQKRLMFVIFFIVVNMTAFLSFHNGQRIFNQNDILRQTLVELPWTDKPQWFKQTLLMMMIRANLDIEMKPYGIFTLNYMAFTDVMKTTFSIGNLLYSKKQLTGS\*

>SfurOR100

MSNAISKFLSYLQSTGLHSTDKFILKGKLSFFIVSIAVLEIIVATLFCWKQWDINVRVTALENLNMAIGILEIAIECQLMPEKIESQLTLLSSGVYLYDLTLEGIKLSIFKEKENFVRGLEAKIISLTEIIETSMHWFFIGYFMSAFCGIIVYLFNQDLNALTLPIVFFNPFSHSPSVSFMDFNQYCIVLSLELWYFYVSYKLTLSMGGFLFLSTDNVIREIKLFQMNLHELNLNLDAIEAEYKYFPQNYERFEKLKPVFRKICEHHQRIFRKVKMLNKGIDFIVICYNPYICFQLCLAIFCIMKVDFQFKIKYGFAFITVLVIAFKYCELGQELENEGEKLRLSLFNSSWAGKPSWFGRSLLIMMIQSHRIPKIEAFRILTLNRINLRLIVQTVYSYLNLLTRVSS\*

>SfurOR5

MNIDEQHTPSHLELKESVWKRTQFTLFPKITVTEVIIAVIVTYFATQTALLLILHWDAYDINSRPEVFANLSYNLFVFLVTMEVFFINGRLRIFMQIIDSEFKISGELVEKKRMKIDELEETSLKNSKALSKVLLFFSIGYSFNCIHGILMCVYKLRPIDELPITFSFLLPANFTKTKESGYFYVCIALLQVWYLYFGYIIVSVLYTSRLFAYNSIFTEIELFLITLEELNHFRFENEEESNFESRVIEQSDVVRLKEIIRTLGKHHQVIFKKISMFEEGGRYHIFYVNASICALLCLAIFCTQRVTAHNLKVRYALLALSMIAGCMIYSENGQRLMNRGEDSRKAIYECSWIDKPIWVQKSLLIMMMRNTKDFDINFYGIFKSNRSNVSSLLQASYSYFSFLNNTN\*

>SfurOR92

MECTRALRKYIDFIRYDKPSNSIALLFIITVGLLEFLNNCMVIFTEHKNKEKFMMGIKDLFMISAAFSIILETSFNSQKAHKLLDLIEKECLVSRYRFAGIGEKFRKIEDSYNKKKEDMEKMYNNIFYVVVVVYLGAINRNLLSCLFEESSELGITRDWPTPFVYWCPSGYNTFTFFLFMYSFQSLMLFMCTISGGSVEIIVYLASEKILADFETIVLLLDRMETDFPDFDFEGNSKSLQKQQMKSLLKMNEELKRDMITIVQCHQALNRNFKDCAEIPAYGILMNTFIISLDTIFNVYLMLKAHDLITSVNYAAASFFINLIGFLRFHTGHGIVNQNDVFRQSLVNLPWTNKPQWFKQMLIIMMGRANIDTEIKPYNIFVLNHKTFKNIMTSVFTYANFFYTRHSMS\*

>SfurOR95

MADSTTDWFWKSATSEVVTRIFELMGRKLPKDNDQDVGNISFRFVLLLLINTTGITNSIILTYRFWTTDYKFDFILNSVVIYFQFCAIIHLIYFPYHYIFLFKVLDRKLYPTDKNFPLNEEQIELIRETNRREKKVHIMFLLFVLAWSLKSLLTMAKGVHELYSKEFDAIEEYEILMVYITIPIQKIFSNRIPAILVYMILSIIQVLIFIFTLEMSANFCFLVTCVVKKLEAEIWILRQYIRSIDKVISKDNNSQFYEISLKRYLNHCIKYHQAILHSIRNVNSAISFMMFPFNNVIAVIVGMKLYFLLESTGSLYNITDVGSAFFTFAIICFMGQGLTDESERLFHDFAMCNWIEKPHWFKKSVTICMTCSIRLVGLKTALYTINLTNVVKVLQATYSYANLMWKLK\*

>SfurOR35

MYQPFNILKILMSFMCIHPPKFCTTSELKLSMYNGLTGLAVAIEFLSYIFYFPSTFFMYKSGSELTPFQAFIALYGISMMMQIFMMITTRSELMDIIKSIHDKYAADGAHAEVENEQSRKRSLWLFSAITVLQVPTFLGGIINSEYIGNNEDSIKANIHFGRKNPERLIAYLPWLPYDYTISPYFEVTKTLMYIALTMGCISMMVRYSLLPMLTFYINGQFDMIAKRFESLKATDEKPGSNGRKLIEEEILNEVIRSHQQALGLSKRVIVYFRPLIVTKTIFYFGILADLLYAVTEQTAGTAQQINCCFCLMSCGYELLLDCWCGEYIARKSQLVGLAAYKSEWHNMSFNVRKSLAIVINRAQKPEQLNGRTGFIPMSLETYIQIFKASYSYYTVLQNLNKADQQVQI\*

>SfurOR91

MDSLIKLTKFMKNLIKLLQFDKLHNSIPFLLEMITASIVMCGMLMAAKLVKDEDIKIAALKDILVVSFVLLHMIEISVHPKKTMAMLDLLEEECSVNEGDFKGREELWNKIDKAYKRNIEGMILLHKLIGITLFLCFVGFLNRNAIPYFFRIPIYTDVQFSSVITPFLWFSGLEIDFSPYFFSAYLSQALLLGLGHLKGYLLISAVSLSIEKILADFNTIYIFLQAFGKYFPDDSINNSDENSWRKTENMNSLRNSMAKVVQCHQRICRNYKICAEKSAYMITCLLLGVMCDSCSNAFFILKAQNNVQKAVSFVFMFIFTNLVLFFLYQNGQKIMHQNDVLRIHLAELPWTDKPRWFRQTVHIMMTRANVDFEMKPYGIYYLNYNSFKDLMKFFFSVGNVLARKMANQS\*

>SfurOR74

MEDTNFLRKYINLFKYDKPYNSIPFYALLTLAGVSLSNICLSTKTEETVEISLEALKDAFSAFVLYLCIVEHSLNPNRALQLVGLIEDEFLVEKKDFVGKGMEKWEKFDKLHKKKKQDLRNKFRYITIAQYFICFGYIFKNFLNYLLGIRVYDRYRWPTPFLYPIPESHFQSTIFLIYVCFLHALTLTTVCSEGYVMLTTVCVSTERVLGDFETLYLLLDNFSKDFSDSNEGKCIEGLFVAQETGNEFENREDTLKKDMRRIVKCHQNINRNLKICANNSAFVVSAAIAVIVADSCSNAFFMLKTTDAKKAIISTSMFIIENFTMFFLYQNGQRIYNQNQVLRKYLTELPWTDKPQWFRKTLHLMMTRANVDAEMRPYGIFILNYVSFKDVMKLTFSVGNVLYSMKVSN\*

>SfurOR71

MQDEQRSLEKVVSTIVSSLELLNFQPPSRTATLWARILHSMAIYIVCQSVAVIFFGWNIWDFGTRIAALESFNYLFGLYTTSADLFHLSNRNQQIIIMLQSRYYSPINCYSEKGCKKRSEMIKTMDKTSVEKAALLHKIMRSIVTGYILFPAVSIVLYFLNLLKLEDLRLPMITFIPKIYPISLTFSSINNYLLSFCYNLFCLLYSYYINLSAFKLLVLSVDNVLNEMKLFRLNFEELDLVLDEEEERGGVEKDERLRRLMKHVVRHHQMIFRKVGILNNGLKYRLFIFNAFNCVQTCLSIFSFMKGEFTFQKKLGVAIFAFCVNCYCLYISNMGQKLEDEGERIRNTLIYGSKSMRKPNWMNKMLIILMIRSNNLPKLDLFNVFTLNRDNFKVIVQGAYSYFNILKNV\*

>SfurOR21

MKKIIEITDVVETILRYLKRPGLYPPSKSGVKGKITYGIVVYVVLEILFVMALCWREWDFNARVTALENLNLAVGILNLATEPKLLHDRTAYQVRLMSSKPMLYNLSSSSKQLISIYEEKEAYAREMENQSILAKIIGTSVRCFFVGYTLSSLFGVVVYLIDSDFNRLSLPMIFYNPFTPSPAISFSTFTQYLLILPVELWYIHLSFTLAFVLNESSFLAVDNVVREMKLFQMNLHELNKNADAIEKQANATEDYNRLKVIVRQISIHHQLIYKKVEMLNKGFDFQVMYNNTFICFHLCLAIFCMVKVDLLYKIKYGVSIFAITIISFMYSENGQRLENEGENLRLALYSCSWIGKPAWFCRSLLILVTQNNRTPKLETFKIFTLNRNNLKVVMQAAYSYFSVLIRFSR\*

>AgosOR9

MSIAVMVHYMAEMFFKKAICSDDDLHRREAMRMVFFTYGELAITLFFAVSTYLSIVHSTEDLSVHLYGVLCLIIQLLVFAFLSFRSYHRSHFRDMYQRSRGMEISENSNRKIAAVIKHHLIMPNVVHIGDPFTFPFMDVLPIETTSVAVYVCKYVVYALPVYLTQIEVCFLNVTYIVIFRLLEKQVEEAMVNKDEHKLKIAIKHHQELLKFFKEMKTVYEKPIFLIIVSCGLYIGLTHDRILNALFQHQLLYSQNKSFKQLILIMMTRATIPLEFKAGSIFTVNMNLLVRILKFAYTVFNVLITSINHQLIKTAV

>AgosOR33

MSSFEVSNVAINIKLYKLLRFYHLFDPNNIFGYHFYRFTGIFITVFIQLFVLFGLLGCFMEMEDTINDIEQFIFIFVNLSNFLSVMKLCVFTYKAKNTWDLFDVTCIHFLKSEKCCKYRNEILEKVRNKSIKLTNFIFYRKLKLYYSIIWYVILTYVVLSSCSIITLTYSFIMVITCISSTKSLPVLSIIKIIAPFSIVSFQIFLHCYFFGLINFKKASVSYGMYSCNWTSMDLKFKKLLLLSMQMNDADKLMIKATPTRIINLELFVKVDNNLLLSEAIYK

>AgosOR10

MEHIVDMFLKKTGCNDDRSYDTMCQVFFIYFELAITLFFAVSSCLSIVNSTEGLSVRLYGLLCFLIESHIFFFIAVRLYYLPQFRDMYQRTLKMGIPENFRQRIAMVIKHHFIISNVFVSIFMLYTISMDWVQMGDPFTFPFIDVLPIKTTNLTIYVCKYILYTLPVYIAHFETCFLNVTFMYSTGVMKRYFQILDGQVEEAMVNKDEQQLKIAIKHHQEVLRFFNDMKTAYEKPILMTIEFCGLYVGLTSYFSILVIQGYIHQIILGLCIVSSIASLITIIIYCIYASNMYDLHDGILSALFEHRSVYSRDNSLKRLISIMMTRATIPLEFKAASIFTIHLNLLIKILKCVYTVFNVLLTSISRKLKETAV

>AgosOR39

MNSENIFNGRPVALNLSTYKQLGYYQLLDPKGPYLYGCHFYRTILKIFLLVIEDSDANNGKSNSFELIIILTNCTLSSLKIYTLISNTKIIWDLFDLTCIDFLKCSRHSELITENFVTRCKKSTEITKWIARSFLIGLILWVMGPFIANEEYTAPNASHRYQNIINIKFPVTVKTYNNYYLVFYLMEVAVGFCIVYGSILVDAFLMSFCWIISAQYQSVTKAFATFGHKNELSSPEEIYKDFKSIIIDHQNVYLKMKSFYAVVRPITLIHVFAYSCSLIMYAYVIVTIFHSKESFIIAEIMKIVMTVSNVTIEVFIFCYLFELIDNKKEDVNFGLYSCNWTGMDIKFKRLLLMSMKMNNANRLKLKATPDVTINRPFFANV

>AgosOR6

MDVREENKHVFNIWLAKRVGLYQMFDPGTARYRGKNVYHIALTFIVLYLGVIATMMNVSGVYYWKDNMPISIDYFWKAETWLFVFFKMWIVVYRSTDIWDCLSITRYGFTSFGYRNTRTLDRWRERSVRFTTAVTVIYLTSLVFYIAGSLAFREDVILVKNHDGSVGYYHQNVMNFYFVVSDSTYNAHYNTFFFVEAATAVLLTMLFLIFDILLITMCFATCCQMQLVGCEFESFGHDKPLGDDPRRSPIGEHEFSDYTDERKNVFKERVSMYYDELKTIVLDHQAKYENLLSLFELAMLLQIFVSSITLIILWFIFIMSFSNDDRFIVSDIIVKKMIFLIPSLSYQIYMECYLFGLLHNQKDSVIFALYSSNWTEMCMRCKKLILLTMEMNNANHIKLKFTRTKIVNLEMFFKTMSDCYTITSVLINHIKTKNK

>AgosOR20

MAHSSSTTVVDVSLFKTIGLHQLLCPVNRGGYSVRSRRALMAHSSSTTVVDVSLFKTIGLHQLLCPVNRGGYSVRSRRALMTALGLSFALHAFQVPWLYCALNDLQRFAYMAAVIIYGMMCAFKGYVLVTNSDRLWWVLDAAGYGYTGCGGRDPSALRRCRVTLSALLRSFVALSYATLIVWIVLPFFVDEYTPITNLDGTVTRYRTTIHNMQFPVPLSVYNSRPVWTLIYVTEVSVCIVNVFIWSIFDCYLVTMCFVLNAQFRTMSTGYVTLGRRRVKPLPQDTPVKGVRIKFNDVKSNHYDDLIGHIEDNRKLIKAFDVFFDVVRPVVLVQIGNGSYSVISLIFLTSLMYLMGVPVLSAPFLKFICGVISLTLELFIFCYGFNHIETAKSNINFGLYSSNWTEMDLKFKKTLLLAMKMNSSHKRVMKVSPKSSVGLEMFARVMNMSYSIVSVLLNSRS

>AgosOR22

IGMYQLLYPAECGLNDGGHGYRTAVLAAMGLVLGLQSMQVCRLYLARHDIQMFANMGMLVVYGFMCLLKGHTTATNASRICVTLDAARYAFTGCGGRDPSVMRRCRATLSTILRTFVYDDMPTVWAVVYVVESIIFTVNVFLWTSFDCYLVTMCFVFDMCFVFDALFRTMSAGYEKLG

>AgosOR21

MYQLLRPVECGLDVGRCRSAALAVVFMTLGLQSMQVARLYLARHDFQMFANMGVLVVNGLMCLLKGYMVVANADRMCSTLDATRYAFTGCGGRDPSVLRRCRATLSTILRTFVALSFGVWAVVYVVESTILTVNVFCWTSFDCMDQWYTKHKLRLFRTMSTGYETLGRSRSGDVKLSARQQFDTVAAGAAISKTSITDDNLDDLKSHIIDNKNIIEQYDAFFDVVRPMVLIQIADGSYSIITLIFLTSLVYLKGYSIVSAPILKFVCGLASLTIELYIYCYGFNHIEDGKSTVNFGLYSSNWTEMGF

>AgosOR32

MATFNEHTAAIGLKVLKQFGFYQMFESNTKKIFGWNVYQFSYIILLMINQCLIVFGNSGFLFELDDTINNINLLLIIFSNSFNYLTVYKVIILILNKSKIQQVLDVTDLKFLKSKQCRDNKVKLYFSMMKPIVLMHVSINAGLIMMLSTSFCMVLLSTESFTQAFVNLFKIGIGIVYLSLQLFLYCHLFDNIHLNIQSVNLGIYSCNWTNMDLKFKKLLLLTMQMNKANEIMMKASMKKIINLQLFASVLTTSYNIVSVMVKTIGK

>AgosOR5

MPRIDAINVFLQMTGCTDSKRMLYLTYFEFLITLYYFIASYVSIIYYEQSVSIQLFTLLCMLIESYILLNITFRIYHKNQFREMDQYSKQLGIPDDYQSKINIITMYHLIASNMFVIFPVYFNTMKIVFTKPILQSMSFNAIYFGLTTTLVIQAIRGYINQTIVSICIASGIAAIINITIYTFYGSVLLDLHDEILRVLFDNSFFYVNKSFKRSILIMMLSYTIIKMILSSEAIKPHKMS

>AgosOR2

PGDTTQQQPESFVLTPFQKFCIRWSVFFDSTSDRLSRIETVLRSVQLSTIMITSVLTMTSVLIADNKKALESFTYFVICVFLLAIITFAIRTKRFNRAMLLMVVDEFPGYERPMPDDLKRKISAIRKSYGEFTMKVMVSYLTLVLFEIPATAMVPLTAARLTDVKLGSQSTQMVVLWFPGDTTQFLIVMIVKFIITGIMCSFSFFVSQMISEFQILSAYVEHAVEIVEYDLSTGKTTDQKLLDHTTDQKLLDHVKSCVMLHHRLIDFKDQLNESYGYIILLELMFSTLYFCLSAFNMIFVGNRFVIAKGLLTLSNYLAELFIFCMYGSMVEEAHMGLLRASYSAAWYSQPVRFRRSLMMVMSRTQTPLQLTIGKVFIANLPLFLSVLKVSYSGVNALRAANAK

>AgosOR25

MATTTKMVYKNEDNLMINTRLMKITGLYQLLDSRTSKIFGQNMLKCMSLFQLSIMFITVVIFLANTYYFSDDINAVMQYSILFVCDVLSILKLYVTIVKSDTIWNCIQMTSIDDLSYKYHNRSILRNGQLKSKSYSILIMFMWMNLIILWALAPLFVTNYFLEVEVKKKIYRYRFNIMNFVFPATDQFYNDNFVIYYCIEFACLIIWCHCTMNFDVLLLSTNITFKYQLKTIANSFSAFNITHYIKNNFTKNIKHYKESELIFDFKSIIYDQQRVIENMRNIYRIFQPVVLTQLAFESIIIILLSCIIMMNYFNGISLLSAMNLRLFAAVLTFTFHIYVICYLFDNVNQDRKSVV

>AgosOR30

MVTTTKMTTKNEDNLMINTGLMKITGLYHVLDSRSLKIFGHNVFKCLSVVQMSNLILLTIIFPANIYYFSNDINVVMQYLMLLTSDMISILKLYVTIVNSDTIWNCIQMTSIDNLSYKYHDRRMLRDGQLKSKSYSILIMFMWMNLMLSWGLAPLFVTNYFLETQVENKIYRYRFNILSFVFPVTDQFYNDNFMIYYYIEFVYLILWCHCTMNFDILLLSMNITFKYQLKTIANSFSTFNITHYVKNNLTKNVKHRKESELMSDFKSMIYDQQRIIENMRNIYRIFQPVSTYSTSFRVYNNNSSVLYHNDELF

>AgosOR29

MATRTKMATKNEDNLMINTRLMKLTGLYHLLDSRSSKSFGHNVLKYLSLVEMSILFTMMVIFTANLYYFSDDINAVMQYSMLFACGVISIHKLYVTLVKSDTLWNGIQMTSIEDLSYKYHDRSILSKGQLKSKTYSILIMFSWINLIISWSLAPLFVTNYFFETRVENKIYRYRFNIMNFAYPATDQFYNDNYMIYYYTEFVFLMLWCHCTMNFDILFLSMNITFKYQESELMFDFKSMIYDQQRVIENMRNIYRIFQPVVLTQLASDGTFFFIQNYFNGISLISAMNLRLFAAVLTVTFHIYIICYIFDDVNQQVSYIKDSINFALYSSDWTQSNPQHKHLLLHAMRMNNAENLRLQVTRKRIVNFKMFTDVHSINFALYSHDWTQSNAQHKLLLLHAMRMNNAENLRVHVTQNRIVNFKMFTGIMRKAYSILSVLGKMCAKKT

>AgosOR26

MNNAENLRLQVTRKRIVNFKMFTDVRTIFLFFFILVPTTDIIFGHNVFKCLSVVQMSSLILLTVIFLSNIYYFLDDINAVMHYSTLLTSDMISIFKLYVTIVNSDTIWNCIQMTSIDDLNSDTIWNCIQMTSIDDLSYKYHDRRILINGQSKSKSYSILIMFMWMNLIISWSLAPLFVTNFFLELEVENEIYRYRLSIMNFVFPVTDQFYNDNYVIYYCIEFTGLILWCHCTMNFDILLLSMNITLKYQLKTIANSFIIYLYNYVLYAFNNLTKNVEHHKKSELLMFDFKSIIYDQQRVIENMRNIYRIFQPVVLTQLASESIIIILLSCILMMWHFFFFIQNYFNGISLISVMNLRLFLAVLTFTFHIYVICYLFDDVNQQKDSINFALYSHDWTQSNAQHKLLLLHAMRMNNAENLRVHVTQNRIVNFKMFTGVRIIFFFYFNAYLQICLKRYNFIFYI

>AgosOR38

SLLEPNEVSINLKLFKFIRFFHIFDPNIRKICNINVYHLAFHIINCVIGCIVIYGLLGYFTEMEDVFNIINQIQLMFCILIYYSSLLKIITFLYKANNIWDLLLVSKINFLTSTQCKTHIDILHKYRNKSIKITNMISTIGVVTTLEWIMYPLLLQLLQKEDANKSNQRFENIFNFRFPVTINYYNNNYAIFYFMESFITMYMLYIYVAVDVFFISACYIMIAHYEMIKRAYENINIELISENNNKNKNYCNDCIDDLVSIMMDQQKHFAKLKLFYSTYKFIILSTVIINSGSIIILTYASVVIFMSSETISILSVIKLISAFGYVFIVLFFLCYLIDRINNKMESVHFGMYSCNWTAMNLRSKKMLLLSMQLNNANKLMIKITPKKIINLQFYNSVILKFIYIYFFII

>AgosOR41

MTFDKSILESNEVSINLKLFKFIRFFHLFDPNIKKICNLNVYHLAWYIINCVIGCIVIYGLLGYFTEKEDILNIVNQIQLMFCGLLYYSSLLKIIIFLYKANSIWDLLRVSHMNFLTSSQCKTHIGILHTHRNQSIKITNFISGFGIVIALEWIMFPLLLQLLQKEDVNKLNQRFENIFNFPFPVTINYYNNNYVIFYIMESFIAMYMLYIYVVVDVFFISVCYVMIAHYEMIKRAYENVNTELVSENNNKNKNYCNDCIYDLVSIMKDQQKHFALLKLFYSTYKFIILSTVTINSGSIIILTYASVVIFTSSESIPILSVMKLISAFGYMFVVLFFLCYLMERINNKIESVHLGMYSCNWTAMNLRSKKMLLISMQLNNANKLMIKITPKKIINLQLYNSVIITCYNVLSAMLNTRSE

>AgosOR42

MLNLSDNGDCIVSSVLAKCTGLYYIINPKSIKLGGHNVFHIAIMVMITFTSVCLLLCPIGLYYWVNDVTQFIIQLIVLGNFSFGCFKAFTIVHYSDDIRRCLDVTRFDFLLRLPRHGS

>AgosOR28

MDNFNGKNILINFKLCKQFQFYQMICSSRMKIFGWNIHQLVLYKQRDKNSKFVNYFLIFSFVIILKWFIFPIVINQILYFENSNVRAQNIINLCFGFVLIFYLLEITVTSLTVYILIMMDTLIIFLCSAIIYHQEVLIYAFKNIGTVLILIKIGSKVIYLTARLFIYCYMFDSINIKRELVNYSIYFCIWTKMDFKFKKLLFLTMQMNDANRMIMSMSFNMVLVLLKITNSENHKSQLT

>AgosOR7

MDGFNEQNILIDFNLFKELQFYQIFYSSGIKIFGLNIHQLFYISYALVALCIESYGISTLFSTNCKFLSYIDYFIIFYVVNQMYLSFWKLFKCLNDRNRLLDLFKIAQLNFLTSEECTKYSKVLYKHRDKNSKFVNYFLIFSFVVILQWFMFPIVINQILYFENSNVRAQNIINLCFGVATLTYNKFVLIFYLLEITVTSLTVYILIMMDTLIIFLCSAIIYHQEVLIYAFKNIGYEDNPKISKIIFFYSKYKKLIRINVYFFRKIKLFYSIMKSTILLTVGIDSFYLIFFTYLFILICLTPGSDTLLPLIKISMSVVYITGRLFIYCYLFDSIYIQRESVNFNIYSCNWTKMNLKFKKLLLLTMQMNDANRMGIKASPKKIINLQLFAGIMSMSFNMVPVLLKITNSENNKP

>AgosOR8

KSLDGTFTSFFYIFYALVGLCIGCYGIFTSFSTNCKFLSNIDYFLIFYITTQTYLSYWKLFKCLKDRNRFLDLFKIGQLNFLTTKECAKYNKVLYQHHDKNLKFANYSFIFSFLIIMVFIFPLVINEIIHFENSNVRAENIVNFCFGVSTSTFNEYYLIFYLLEITVTSLTVYILIMMDILIIFLCSAIIYHQEVLIYAFKNIGYEDNLTISKTMKIKLFYSIMKSTILLTVGIDSFYLIFFTYLFILVFLTLIKIGSTVLYITARLFIYCYLFDSINKKRELVNYSIYCCNWTKMDLKFKKLLLLTLQMNDANRMGIKASPKKIINLQLFAGVIIKF

>AgosOR34

MDGFNEQNILINFKLFKQLQFYQIFNSYGMKIIGWNIYHLFYIIYALVGQFIGCYGMFTSFSINCKYLSDTDYFIFVYTAIQMYLSIWKIFKCLKDSKKFLDLFKIAQLNFLTSEECTEYSKVLYKQRDKNLKFARYFLIFSFTVSIQWFIFPLVINQIINFENSDVRAQNIINFCFGVSTSTFNEYYLIFYLIEIIVASLTMYILIIIDALIISLYSAIIYQQDVLIYAFKNIGYEDKPTICKIIFLVYIFKMNVYFFRKIKLFYSLMKSTILLSVAIDSLYLIFLMYFFILVCFLFKLIQL

>AgosOR24

MELQNEHSITNLQFMKITGSYQLLMPSHGLTFFNINIYKIAFIVQILFLTIAAIMGVFSIYSCRNNVNQIIHYIIVIFAIYFAIYKYYFIIKNSKIIWDCMHMMSTNFLSYNDHTKEIFKIARTRSFNVDIDFPYLSAILIHSSYLKIKHEHGIYKYRSNALGLVFPVTDTFYNKYFIVFYTTESIFLLFWGQMMWVFDILMISICISIEYQLKTIADSYSLLGLKDKHLTRELSNSKYIRFFVFIQLAAESFQIILHACMILKLYFDGSMSPTIFLKLLFPEITYLCHLFLTCYLFSIVNEQESMNFALYSSNWTDMNIKFKKLLLFTMRVNNAENLKMKISINRIVNMEMFADVMHITYSIVSVMMKSYSK

>AgosOR15

MTPDNTLKYIINLKLMKLTGLYQLLNPDNPKSFGCNIFKLGGTLAVVYLILVIIMCNLSIYYSLNDFTEVVKYIMLIIAALFASTKMCFVILYSNELWKFISFTSIDYLSYKGHKKYMHNKARKLSKSISNIFTLAWIAVISVWILSPIIIKDNFMNVKSKDDTYNQYRYNMLNLIFPVSAQFYNNNFKVFYFFESIALIVYGYSMMVFDCLVISMCITITYHKPLDERSNDLNNLILIIQDHQKCIKNLNKGLSLTSPESIKLILSALTNIIHLFSTCYIFSIINTHKDSINFALYDCNWTNKNIMFKKLLLLSMKINNSEKLKLKASSQIIVNLQLFTNVIHTTYKIISVLVNQYR

>AgosOR23

MNPNDENYIINLKLMKITGFYQLINPHTSKYLGFNVYKVGAGLEVMFGIISMLLLFLSSYYYLDNTNELMSHFMLIVAIFFSTFKISWVSKKSEMIWNNLDMTSINFLSYTGHKQEILQTARAKSISTTIIFVILWSSVTVAWSISPFFIKDVYLNVKFNDEIRRFRYNSLNYVYPITEESYNENFLYFYVVEMLQVIFWGHGTVAYDTFVISICISIAFQLKTIAVSYTSLNDIKGDIKNLKHNDLEAILNLKLVIQDQQKMFKKIKEIYKIFQPVTFVQLAAQSMLIILQAYMIFIFLLLSVPIIKLIVTVAPNIIHLFITCYLYSNINDQVLNLIIRHIIIIMTIIYPQNILIILSIILFQKDSMNFALYSSDWTAMSIKYKNMLLFAMRMNDAEKLKLKISLRKIVNLEMFASVKPKIKFYEKNNN

>AgosOR11

ISIYYSQCDFTAVVRYIMFIYATFFVIIKISFLIIKSDILWNFISFTSINFLSYSGHQKYFLMNARIISLIISNVFAILWVAFIALWIFSPIVINDSYLNIKSKNSTYMQYRYNTLNLLFPVSTQFYNDNFTIFYLFETIILIIYGYSMIVFDCLIISFCLTIAFQLRTIASSYSTLGYNHTNNQIKSFINNIIHIVNTINSNNGISLTSTESIKLLSAEIVNTGHLFSACYLFSLIDIYNDTINFALYNCNWTEMNINFKKLLLFTMQMNNANNFKLNISTNIIVNLKLFTNVIHFTYKIISILKSVVN

>AgosOR4

MTLIENKNYHRKFYTILMTVAFFLNTSQYDCIPKFLMHFYIFDWMMFVTLAAGYIFFYEKPGMSLGMELIQYMIVGILYTLIFLVFILKNEAIMSNYNFIQTKFIHWSNKKSLHPNAVYKKNIETVKSLAIPLATLSLSIAFGPLVSTINDIGKLPLDNRAHFVLFWPKIVDTNKISMYGIIYAVQVLFTVILYISSLSFNLGFMVFLNELTNQFEILLDGINDAFKYKRDKQFQPLFIDCIRHHQIIIKFLDDLKSYFKWVILIEIIVVQVVLAILIYNLTKVNASIGYKVKVAGSLLFNLLPICFHCHVGEVILSLHTRLSNHIYNMVWYDMPNKNKQLLVIMFQRTQRDLTLSSALFSNERASRSLISKVIKQVYTILNVLLKT

>AgosOR3

MKNTAVNEMKFYQILIAIAFSVNTGHPYNYIFQYIIYLGIFNYILSLIIAPLYIIWEGQTMSMIMELILYIICGILHSSHLIVIALNKQSIVATYSFIQTHFFNWSVKRGMDPNGAYKKNIKKIKYFVTIWSFLGCTIMFSPLLSTIADLGELPLDHRSHWNTHWPIFFSINNLYTYGFIYLLQTILAVFLITATGAMKCGFIVLLSELNYQFEHLLHGLEHAFNHRMEQKFKIIFFDCVRHHQYVDNFKSYFKWITLINIFMLQGIISTSLYCIIKIDAPIGYKMKQCGIIITHIAEFLFHCYLGEIISRMHNHLEEKVYNMTWYDMPNPHKKFLMIMLQRTQKDLVPNAAIFSSHSLSRSLMTKFVKQIYTLLNVLLKT

>AgosOR40

GKLNKKEIQKEFVSIILDCQTVVFTLEKIFSQLKTIYGIARPIILIYMVGDSIGMITMPFLIVMFYTQDKSIFNSNVIAFSWTLLVVGIQLYMYCSLLQNVNERRENINFGLYSCDWTRLDIEIKKLILLAMRMNNSNNLKINVTFTKFIDLPMFASIIRSSYSVTSVLINSNIHKINK

>AgosOR35

MKRSRFYHIFNPNGSKIFNYNAYRLLLIILLVLVNGIVVYSSLGFFVKMEDTLSYIDSSVIIFVMINIFLCNWRFSVFLYNAKIIYDVFNVSRFDFFKSKHCCKNINVLCGHRDRTIKITNYFFVFSSTVMSQWVLFPLVLIAFTAPEDENIRQQNIMNLRYPVSTHTYNQYYYLFYLMEVIVAIFTMYSMIIPDILLMSWCWAIIAQQEILIQTFKYFGHEDSSQTVHYEDFKSILVDQIQLNLKIKSFYSVVRPVVLTYVAIISTCFIIVTYVLIVVCLSKESNSVLNIIKLGSSALYMCLDLFLYCYLFDSMNIKLESVNTSIYSCNWTKMDVKFKKLLFLTMQMNNANNLMIKASPKKIVNQQLFANIISMSYNIVSVMLKTTS

>AgosOR45

MKIQDNDKQIFNLALAKFIGFYQVVDTEKVTFLGRHNVRYKIFVFLIVYECLIAAILLLNCLYYSENNPTEFIRYTGFVVNMFYASYKMYIVLKRTKDIWDCLSITQFDFTSYDHRDRRIILDLWRNRSIWFTNTFVVFSLIMLIFYTACPLAFNDTFIVMKSRDGLSSNYRLNVVNLYLFVPEEVYNAYFNIFHIIETFGICIFVLFIVVFDTIVMTSCLALSCQLHMNSAAFESVGHTSVVDSPNNNIDNKMKLPYENINGIAMYNNLKTIIIDHQNVLKKYDEFLSIFKPIMLLEIFVLSYSIIILWLIFLTNFIVGEFTDSKGVASMQTCFAIPFCIMQMFMSCYVFDILHNKHNNNMTIDYRLGSNK

>AgosOR43

MDSKHEKQYIFNMKLAKIMGLYQILTPDSTSIFGYNIYHIVIVFFGSFMFIISMLFPIGLLYLRNDMIALMYYMGCISNFILSSYKMGNILYYSKDIWKCIDVTNFYFISYKHYDRNLFKNWQTRSIRITYIYIVIALFAFFCWIFSPCVMNKSIITIRNIDGSYSRYRMNIFNIYLIASHETYNTNFYIFYIIEIIVSVCYVYFTIIFDVLMLLICFAISYQLETISNTIKSLGYNLSIQDNIGTKCVIFTGTSNSIQLKEKCDIIYNDLITIITDHQHLNDFYNMFRLVTLTQIFIASSSHSIDEGDNADSILSFKLFIVLPLINFQLFMTCSLFGTINEKKDSIIFALYSSNWTDMDLKSKTIILFGLTMNNANQLKMKFTNTKIVNLEMFSHTMRFCYSIFSMLVNYNNKKKNN

>AgosOR12

MDSKALKILRLTGLYQILDPNTAKIDDCNIYHIVIVFFASFTLVVSMLFPMGFIYLRNDIIALMFYVGCISNFMLCCFKVLNILYYSKDIWKFIDVTKYYLTLYKHYNTNVLKNWQTRSTRIMYLYIIIMFIGFCFWFFSPHILNESTVTIRNIDGSYGKYRLNIFNLYLIVSDETYNMYFYVFYVIEIIMQICFLYFTIVCDIIMILISFEIISRMEIICIACGSLNYNIICSKEGSNPIKSEKKFDVIYDDLKIIITDHKTVIRKLKEYYTIFRPVTIIQIFITSSSHIIIWFVVAMNFGEGDKGNSIITIKLFAVHPLLSFQLYMMCYLFGSMNEKKDSIIFALYSSNWTEMDIKCKKMILLAMEMNNANHLKMKFTNTKIVNKEMFTQVNITSHIYKVNYKMNVFYYL

>AgosORco

MGYKKDGLIKDLWPNIRLIQLSGLFISEYYDDYSGLAVLLRKIYSWITTIIIYSQFIFIVIFMVTKSNDSDQLAAGVVTTLFFTHSMIKFMYFSTGTKSFYRTLSCWNNTSPHPLFTESHSRFHAKSLSRMRQLLIIVSIVTIFTTISWTTITFFGESVWKVPDPETFNQTMYIPVPRLMLHSWYPWDSSHGLGYIVAFALQFYWIFITLSHSNLLELLFSSFLVHACEQLQHLKEILNPLIELSATLDSAVHNPAEIFRANSAKNQPINGVDYNGSYVNEITEYGTKGETELNRKGPNNLTSNQEVLVRSAIKYWVERHKHVVKYENLIRDCYGSALLFHMLVSTVILTILAYQATKINGVNVFAFSTIGYLMYSFAQIFMFCIHGNELIEEVTVMEAAYGCQWYDGSEEAKTFVQIVCQQCQKPLIVSGAKFFNVSLDLFASVLGAVVTYFMVLVQLK

>AgosOR17

MATASPSEEESTIVDNRLFKAICLHQILNPTHGSNRYIRSQEPFSKHQSAIMATASPSEEESTIVDNRLFKAICLHQILNPTHGSNRYYRIAILACIWMSIVVQITQLVGLYYAVNDLQRFAFTTTVVVNSFLSLAKAYVLMANVDRLRDGLEAARYEFTSCGSRDQRTVRRARAALSTLVRTFTVFSYVTCFFWMLNPLSAIGEFLPLTNADGTVSHYRVTIYNYWLPVSATVYNTTTVWALTYAIEMTVCFFNVNTWLLFDSYVLTMCFTFKAHFRTLSASYATIGHLDTFRSLTPHASGFLNWKKGLNKTQNKFKFKHVLINIL

>AgosOR31

KANSVIIILKYCTNIATELYNLHNYISISAFWSFNGFFCPIIINSFIVDKNDNRRLENVINRRYPITVNTYNQYYVLFYIIETIIAIKSLYLILMIDILLLSIGWAITVQYEVLAVAFKNLGHDVNFQKGETTLFKKIYKKVKLYFSIVKPIVLMHVAISSGLFIMLSNSFIMIILSKESFTILIVNLFKIGVGIFYICLQLFLYCHLFDNINLKREFVNLGVYSCNWTKMNLIFKKLLLLTMQMNNANQITMKATTNKIVNLQLFSNVNIKFFVLNKSYNIISVMVKAISK

>AgosOR44

MMLLNGLYYSKNNITESILYTGFVINMFYASYKMYIVLTRSKDIWDCLSITQYDFTLYDHRDRRIILDLWRNRSIWLTSTFMIFSFVMVTFYVTCPLAFNNTFIVMKNRDGSTSTYRMNVLNLYLFIPEEAYNNTYFNVFYIIEASGTYVLVLFVIIFDTIVMTLCLALSCQLHMNFAAFESVGHTSVVILKTNYFCLDNNDNIDNKIKLPNEYINGIAMYNNLKTIITDHQNVLKKYDEFLSIFKPIMLLEIFVLSYAIIVLWIIFLTSFIVGEFTESMGVTSMQTGFAIPFCVIQLFMSCFVFDILHNKKDSMTFSLYSCNWTELFDMKCKKLVFLTMGMNDAHHQKLQYTRTRIINLEMFYQVCFTLSS

>AgosOR37

MKWLQDHEVAINLALFKRYQFYHIFNPNSSKILNYDSYKFTNVLFIVVVTSYNIFSAMCFFTDTVDTIDSIDLLLMIFIYSIIIISLLKICVLLFNADQIWDLFNLTRFDFLSSRRCRKNVGILYKYRDRSITITNLYQNYSTIVFIIWMIVPLVLNTFAMTEGPNQRYHNIFNMQYPVSASIYNHYYYIFYLMEIAMGIFVLNYSMIIDNFLISLCWAIIAQYEVITTAFENIGNDCKLENLQKEKKNNSFEAYEDLKSIIMDQKKIYTLICSSAESFSIFNILKISTAFFVFVIQLYLYCYLFDVLNDKKESVNLGIYSCDWTRMDLKLKKILLIAMKFNNANQLKIKATPNKIVNLQLFSSVMTTTFNIVMVMLKTINEKN

>AgosOR13

MDSKHEKQYIFNMKLAKIMGLYQILTPDSTSIFGYNIYHIVIVFFGSFMFIISMLFPIGLLYLRNDMIALMYYMGCISNFILSSYKMGNILYYSKDIWKCIDVTNFYFISYKHYDRNLFKNWQTRSIRITYIYIVIALFAFFCWIFSPCVMNKSIITIRNIDGSYSRYRMNIFNIYLIASHETYNTNFYIFYIIEIIVSVCYVYFTIIFDVLMLLICFAISYQLETISNTIKSLGYNLSIQDNIGTKCVIFTGTSNSIQLKEKCDIIYNDLITIITDHQHVIKKLNDFYNMFRLVTLTQIFIASSSHVFIWSIGAMSIDEGDNADSILSFKLFIVLPLINFQLFMTCSLFGTINEK

>AgosOR36

MDSFNGQNILINFKLFKQLQFYQIFHSSGLKIFGWSIHQLFYIVFGLVGLCIQCYGLSTSFFNNCKNISEIDSFLIVFASTYIYLSLWKLFKCLKDRKIFLDLFKIAQLDFLTTKECTKYSKLLYKQREKNLKFANNFLIFSFVICLQWFIFPLVINEIINFENLNIRAQNIMNLCFGVSTQTYNKYYFYILLTRNNTNIDISFHYNIYGHINNFNLFSYNLSTRFTNLCVQKYWI

>AgosOR27

ISFTSINFLSYNGHQKYFLLNARIISLIISNVFAILWVAFIALWIFSPIVINDSYLNIKSKNSTYMQYRYNTLNLLFPVSTQFYNDNFTIFYLFETIILIIYGYSMIVFDCLIISFCLTIAFQLRTIASSYSTLGYNHTNNQIKKNQLINEKPMDLSNLIVIIQDHQKLTKKIHDIFDEMRPIILFQLLSESILMSLIPLVLFLNSNNGISLTSTESIKLLSAEIVNTGHLFSACYLFSLIDIYNDTINFALYNCNWTEMNINFKKLLLFTMQMNNANNFKLNISTNIIVNLKLFTNVIHFTYKIISILKSVVN

>AgosOR16

MDSFNEQNILINFNLFKQLQFYIFYSDGTKIFGWNIHQLYIVFGLVGLCIQCIGLSTSFFNNCKNISKIDYFLMVYASSQMYQSYWKIFKCLKDRNRLLDLFKLAQLDFLKSEECAKYSKVLYKHHDKNLKFSNYFLIISFVVIIQWFVFPLVINEILNFENSNVRAQNIINFCFGVSTQTYNKYIPIFYLLETTGAALTVYFLTMIDTLIISVCSAIIYQQNVLIYAFKNIGYKIKLFYSIMKSTMLLNIVIDSFFSMIFTYLFILVC

>AgosOR14

TKIFGWNIHQLFYIVFGLVGLCIQCIGLSTSFFNNCKNISKIDYFLMVYASSQMYQSYWKIFKCLKDRNRLLDLFKLAQLDFLKSEECAKYSKVLYKHHDKNLKFSNYFLIISFVVIIQWFVFPLVINEILNFENSNVRAQNIINFCFGVSTQTYNKYIPIFYLLETTGAALTVYFLTMIDTLIISVCSAIIYQQNVLIYAFKNIGYENKSTINYYKTFISILQDQLRLNLKIKLFYSIMKSTMLLNIVIDSFFSMIFTYLFILV

>AgosOR18

NNNTLNCYDELVNHLQDNQRIIKKYDEFFEVIKPVILFQIIGGSYTVITLTFLTSLVSVLVFPRKIFHIYINTFLNVYLFLFLLRRILWGFQLYPYLAVNFGLYSSNWTAMDLKFKKTLLLAMNMNSAHRRVMKVIPRSIINLELFAKV

>AgosOR19

MGVLVVNGLMCLLKGYMVVANADRMCSTLDATRYAFTGCGGRDPSELRRCRATLSTILRTFVALSFGTLVVWVIIPGKYELFFRIVRPVVLLQIANGSYSIITLIFLTSIAYLNGDSIVSPAIFKLVCALISLTIELYIYCYGFNHIEDGRSTVNFGLYSSNWTDKDLQFKKTLLLAMTINSAHKLKMKVSPNSIVNLEMFTRVMNMSYTIVSTLLS

>DcitOR1

MQKVNKHGLVGDLWPKIRLMQLTGMFILEFHEDSSPGTQLLRVAYCWIVTALLIAQYACVITFTVGLNYNNDLLAGGVVTTLFFTHGMIKYIYVGLKNKSFYRVLSSWNNANSHPVFAESNARYRAKSLSRMKRVLTIICVWTSATVVAWVTITMCGDSMFKVPDPEDKNKTMWVKVARLPVHSWYPWDCLNNSTAHIFTFIFQVYWVFSLVAHSQLCDGMFCSLVLFSCDQLKHLKEILKPLIDLSISQHGIPSSLDLFVNKSASSNKKLIANEDFEYQNMYQSQHDFSNYTQSKDSFPVDSQKEELTRSSIKYWVERHKHIVRYTEMVGDCYGISLLLHMLVSTVALTLLAYQATKIEGVNVYAFSTIGYLVYALAQVFFFCFYGNELIEQSSSVMEAAYSCSWYDGSEDAKTFVQIVSQQCQKSLSITGSKFFTVSLDLFASVLGAVVTYFMVLVQLQ

>DcitOR2

MKIPFIDETEHWNYTVCFVYQVYIMLIWLMMSSVTLTLVPIMSTYLIGQYTILSKYVEQLGAHHYGSNGQEIFYINIETNEYYEYYNK

>DcitOR3

MYFLICSFFTVYLAGLLVVLGTVCFCNFPLFVMNVELQIRVLSRYVRMIGKIHQNPQGDVIRYTNIINDEYVLQRRHEISRSYFHDMDKIVSSRDLEKYQHGYMNYEELFTRQIFKFHQKLLLLREEYIGWLHMSLVGRALFSMALLALAVYQVFSRDIYSEKTVFKYCLELTCVVSCYFYFCHISERWQGCNDHVRRAMEDSCWYQCSSRVQKNVIMMHVRTYRSVDYVEACGIFRASYEYYVSSLKLSYSFLNFVKLQERSSMKAP

>DcitOR4

ERLEECSHLLKNSITQCDWHRCSSKTRKGLCILLRRAQRPNYPSFSWGLVVLQREYTLKAARVGYSFMNFMRLKSG

>DcitOR5

MAYPHSMRKVLRILNYTGIMNHLVLYEARWKQVLHRVFCVICQVIGILSLISHILSTTTRSRRFLPEFLQRMLEDTCFISYSFEYLNCKYRMDEFLEIVTRMENTFSSVDKTIVKNCHRTEINIYLSFSSLLGLALLGSIIETYLPISNEELAILERVYRRKYPENRLETNFWVPFDDSDPKYYHILFYFIIFLILRILVMSLCVAFLPVLITQITGQYKILNLYIRNIGADLDDNGLRKYFTNIERGEFIYADVSKKSKNIPHNNSPQETIKSNVVKLKRQVLYEKLYVRQIIRFHQRIIHFEERVRVYFLYVGYLVVLGGETPKYEIIS

>DcitOR6

MPLPSTSQEGLSANVPSESRELQWEAYERWYIRQVILFHQKLLGFQEKMLSLIRNVFLIIVTCISITFSLSMFEIFVCHNLLIKVTVIKLAMMFISLLVHLYFVCYCSEQLNDSNLMLRDSLYNSLWYNCCP

>DcitOR7

LLSRKIAVEHCSLDNMYYLFNPQYKMFLKDLYESIFAPFIVIWVLAFYQMAYMKHLPFYNRFKIVFEFLYTFLAVFQFAIKSESLNDCYVRLAGALYQSRWYNCSPEVRKTLCILLRNFQDSRHFFLLRGIVKVAFTFLLRMVKVAFSFINF

>DcitOR8

MLALQLERSTSASHLHDIIQKHQHLLHFRDKLAAVLANTCLLKAFIYNLTMTLSLYQLSSVKTVNQRAFQLIFQYVVILIMFYSFTTSSEVIDEGNDILYGAIRSYKWYSARHFDRRAAKTFQLLTRMCRKP

>DcitOR9

MKFRLVDRTKAHIKSKIEAIFHANQNYPCLIFTTYLAQVFRFQSIASTKIRFLSLFNFACFQCVTLPLFLQLIFVSTKNVIVLSMQLFESIYCVSVCIEYGLQFISHKRNVSLLQSFHRIFIKNHKYVKRILTIEYVASTIITIILVILGSMWFLESTISTMTEEELQLTNRQNPDRKFKTEFFLPFDYSLSPYYELVWVVVVYYGVILQTILFETITTMPFITLHIKGQLDILAYYLRSIGKLFRLQNNIEKILFPSDLEKVFCS

>DcitOR10

MHEHITNGLYFFSHIEIITTVIVGLDIVSDVSENVLVVDEIRVENQASLRITMLLT

>DcitOR11

MTSIRIYCDFLDKMGLSNFSRSKEKSHYIFMLFQYSGIIFFTVCHGWNTFTRATRYLPEFFQSLYEDIAINFVVFQILCFNQQSEKTMELAIYMENSFCTINNKAIQKSRIKSKKAAILIFLLITLIMSFSALQSIIPPSSEEIELLANIYRTKHPERIFMSTVRIPFIDETESWYYEAIMLFEVLAELVGIALVCVVCTFIINIIYFMEAQYTILCQHIENLGKKLRDSQGQRFFYTNFKNNDIEYLSTIQNKKMFASNKRKPSLKQRLMNEKIIEQHYEKLYLRQIIYFHQKLMLLQQKVSRYMLTIL

>DcitOR12

MEYFIICNCSEIMDDCNGLMRSALMNCGWDKCSTSLRRDLCFLWRRVQRSNHLRFYNGAVILSRLFFLQVVKVAY

>DcitOR13

MIRFMETSFSQFDSRVILKYKKRADLMFNVYLTMAMAIMCGALLEPFFSKTAAEFRIRRLVYQTDHPEKRHPFNVRIPGVDETQPGVFEAIYLFEIIY

>DcitOR14

MALTSVCYIPMFANYIEGQYIILGKYIEKIGHIHRDKKGHRIFYTNIIKKKVMYVGADNELRHRFKFKSMQEIEDIYQQNYCRQIIQFHQMIIRFQEQLFKLYRPYMMMKVVMNNVMFALCMYQVSTNPTDTSHTRFYKLVTELVGVVVQFYYFCYCSERLDDCNAQLRRSFSKVAWYSCSPHIRRSLIMLLRRVRGSNHMKLLLNFVVIGNGYFLTVVKFSYTFVNYMRLKSK

>DcitOR15

MPLTTISLQVHYDLLNDYTKIMGTIHYNPSGQRVFHMNVRRGVCVEVESLFRGKRRKELNSRVYQEYEYYFMKQLIQYHQELRLMRRKIDSYLKVTWILRTGLMGPLLCTCMYALLTPGLLSTVIYNKFILESIGFLMASLFVFLAGELLASFNLTWRSALYNSPWYKCSNKTKKVIPLLLLLNQTHDYHSLNGLIPCSHEYMVRMIKMAYSVFNLLRVRRLNT

>DcitOR16

MAISTVPIFCVHIAGQLRTLSKLAESTGPREGDTRNLALIKHHIGIIRFFKEFETIFRPVFMIKIVLRLIFITLEIVQLSLLKSITDPRFTRTLTQMVIGFTDFLFFCASSEVVNIGEETLFRSVYNSRWYEASPRIRQRVSMMLEYLKRPLKYSFYSTFLIIDMSTFIGGMRLAYSVFTLLHSFIE

>DcitOR17

MPPVNRAQTILEVLALLVGYMVMFHCAETLAACNDTLRTTAWCSQWYQCSNHTKRILGFFLRMNQKLKHIVIFKILLFGYTFMI

>DcitOR18

MSFSFGFRLLYKTLEIIGFVNRVQLRYSWLNKLKTLRHMMFHIFTAAGMISHFISTTCVARRYMPEFYQRLFEDITSCVYYFDCMFYLLNYDRIHALIKFMDTSFCYANDKVVTTCVRRMRLLFIVVLIRNTITMIAVVAETQKPVSQEEIDVLAELYHDKYPERRVPVRYWLPFIDESESWYFEAILTFAFYQFTMVAVMANVCICSIPMIVLVINAQYTILAEYVEKIGHEHRDEEGRRIRYTNIITNEIVYVEEEGRNQGSRRYEEKPAADIVKDNEIIYVRELSEQNEPRKQIQVKGDMAEEEYQQDYFRQVLQFHQMMMDFQGELLDMYHPFLTAKVLLYNLTTALCIYQVTSNPTSFSESRKFKVICELIGVAQGFYLICFCSERLDDCHGKLRQAVARADWGRSSPKIRKALQVLLTMAQTPNHMEILGGVLVISNAYYQGMVQFAYSFVNFMKLKMSA

>DcitOR19

MFRDQLTGFCNNIAFLVIICNNICLSLCLFQLTNNPGDLPPVRLLKFVGQFLNIVVQSFLICNSSELLDDYNTMLRRAFNESCWYACAPRTRRNIVFFLRSIQEPGHVRFYQGTVVLSRKYFLKIVQVSYSIVNAMRLRSNLS

>DcitOR20

MNSIMANIKQNHNYLNLNILLLKMALIWPLETKIFRTAHKVFQYSTAFILFSVSVGQFMTILKTNDLRLISSTVDVFTLTASAMYKQLFVAGNIVSMRYIVDVIHKDFYEMPLVENKAKRPKTFRMKHHLRYAGLFSKIHVTSAVILAVIWCFGPLLVKPQMSLNPARNPGENLTIPAFGNETSYNGPSSFGSPHGSDLLEYPLFVQTNVLLFGNDTESNSGRKNNIENRNEPKSDTEKSSGQSGDISAYDDKNDIGKAKTQNGQSGYTANDKNAIGKPQTNNEQSGDIANENDSHKAQSGNFDGIRTQTSQTTSPTPQRSDRLRKGSKGEVDSKHSVQYDSLNQRRILPMNVWTAGISYHNSPWYEIMFGIQFWAMLMSCVIYLAIDAFYFSIIYICCGQLQLIHISMENMFPPEGDGSDGTKGRDGSDGKGRDRRVRLINEIDNARLCKIARLHAHVLRLVRFLEQTFTSTIMVDFFHAVTSLSFALFHFQTAQGLVEFTKMYVFLIVCILHQFLNNYFGEIMKYWQSQLSYSTYETPWYFRDRQFKKSIQIITARTRVPIMLNGLKMYVLCLASFIEFMKRIFSYYTVLREISK

>DcitOR21

LKSLESSRSKDMVCPHYIHVLCKFLEIIGYLNEFRFKRNWLNLLKKIYFIWFHCIHTTALISQLISTCTRSIRYVPEFLSRLLESFALYLFYLECLFILFQFKQLQGLMKFIENSFSTADECVLKRCNQRARKMVTTFLIL

>DcitOR22

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>DcitOR23

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>DcitOR24

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>DcitOR25

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>DcitOR26

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>DcitOR27

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>DcitOR28

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>DcitOR29

MAIGGVAVATLLVALIPLTQAETDIRRQLYNMKYPDRLLPSEVKIPFVDESELPNYVFIFVFFAYIVLVSLILAAITINMIPFVTIHLRGQYSMLCNFVEKLGAPHTDLLGNEIRYTDIQSVSKV

>DcitOR30

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>DcitOR31

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>DcitOR32

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>DcitOR33

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>DcitOR34

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>DcitOR35

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>DcitOR36

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>DcitOR37

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>DcitOR38

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>DcitOR39

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>DcitOR40

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>DcitOR41

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>DcitOR42

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>DcitOR43

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>DcitOR44

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>DcitOR45

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>DcitOR46

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**IR**

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>CchiIR2

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>CchiIR3

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>CchiIR4

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>DmelCG5621

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>DmelCG11155

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>DmelGluR-1

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>DmelGluRIIB

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>AgosIR1-C

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>AgosIR2-N

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>AgosIR14-F

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>AgosIR9-F

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>AgosIR13-F

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>AgosIR8-F

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>AgosIR7-F

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>AgosIR3-C

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>AgosIR25-F

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>AgosIR6-F

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>AgosIR5-F

MHQNYKPALLLNEFHVKLFNPNRYILPHAYLVAANNTTDLVDHLDTINVTDASWQPEVNFIIILEKFTELSQHILEPVFQRLWIKNMFKSVLLIPAIDGNAIEAFYWYPFHKRCGEYHTPTLEDLCTRGDNNNSQWTVFDVFEKIIPNTFYNCTVNIVGFNWAPMTLLSNQTPRTMLHGMDVEVVKLMSRIGKVQLEFHEVENNQRWGVKLENGTWNGGFGKLSGHRGDFLIGGGILTAERKEMFDSAPARQVIRFPIYTPLPRKLPYWQNMLNVFSGNFWLTLFVVFFLTSGLLWLSGIHLPSEKRAFSNCGYCLVISWAILCSVASGQQPTSVSSKMIFLSWVIYMLHISAVYTSMQLIYIYKPKYEPPMRTVNDVKESGLTICSVPTFIPIAHSMDKDNFNLTEYIPCMDNHFEALISGSIKKVNKVEEVVIVYNIGIFMQKGNPYKNILSKAQIIAYETGLHDKWRQDASPSRPIKKKGNIKVKKLSVDELQGAFIILICGLGMSSVIFVFEWLFGSK-

>AgosIR10-F

MRNSVAFWFYLVASSFKTSAEYDGLINALTRVFIQKHVLTVTAITCWPKDANSRLLLALSSADISVNFRPSMIPVHETWYRYGILVDVSCVQVTTTLFQKISEPNKFKGFYPFADTDLDIFAQMHYDLNMILQDQLNFKIDLGIVDSFGWNLGNGSFSGLTGLLQREEIDFGGIGSFIRNDRMNAIDYTVGTFYRQPAALFKQPPLSSVHNICILPFKFEVWMVTLFTFIGFTILIAFLSRTTRRFKKDEKESLNVLDSVTIVHGAICQQGYTMNLNAgosSIRVAIFVLFLTAVFLFTSYSASIVALLQSPSNSIKTINDLVESSMTFSAQVTPYSRVYFDETDDPLLRKLYDKKMKSHEKDmelYTEASTGIARIRTEFHGFLIEVVSAYKLISQLWREEEKCGISEIQLFKLPILALAVVKRSGYKDILKQKEESDFGAAgosSLMRLDRMTAVDFTVGTVSLESNILFKQPMLSSVTNIHIEPFKYEVWQVTLVMLMGFVLILLFLNKFKANRRTSLNVLEIIGLVHGAICQQGSTIVLVLNSIKIVVFVLFSTTFFLFNAYSASIVSLLQSTSSSINNVKDLLHEKSMTMSIQIATYAKPYFNVEKTSAYQIINRKWREEEKCGLYEIQLFKLPVLAIPVVKKSGYKDVFKQKLIQQHEVGIKKRLIQRWTPKKPTCDSAKKNRNYVSVSIKEILPTIILFGYGLLISLTVLVLELAYYYGMHYFMKRFKKIKK-

>AgosIR12-F

MDKFVIFIIFMVFKVANSADYNEMLNVLKIFFVRRHVQTVTAAITCWPFDVNKKLLDDLSTADISVSFNSHTLQYYSTWYRCAFIIDLSCENSTEILQQISNDRLFNTQNDWILFDQNSFANETNSAQFALRTFQLYLGNAYVLPDASVFLFLKTYDGVWEIWSGFRASKSDAIRVFEIGTASLNRMTIREMHDEKRNFRGVTLKSTSVIVEKDSFFGFDKKISSDLDVFAHMHYEMIVTLTNQLNFKTEITIVNDYGWYLGNGSFGGLIGLLQNEAIDFSATGVLIRTDRMSVIDFAVGIVELRTAAMFRQPSLSSVHNILLLPFTTDVWIGFNSTLTLISIRVVIAVLFFTSVFFYTSYSASIAALVQSNSNSIKSIKDIVESSMTFSTQISPYGKRYFEETEDSDLKKLYKTKMVPYGNKAFVKTAEGMERIRTEFHGFMVEIMSAYQTISKEWREEEKCALGEIQLFKLPLLSIALVKKSGHKDIFKQKLIQQMEIGLSKRISNQWIPPKPSCGSSSRTKQYVSVSVKETFLTLAVFGFGICISLASNRRLFSLQNDWVLFNRHGNPNKTDALEIALHSFKTHMNQAYVMPDSRVYLLIEVNRNLWEIWDGFRLSVAKEVQVSRVGVMTPERVEIKLSDRTNFKRVVLSASTVVSPM-

>AgosIR4-F

MALTNTLLLALCANWPPLNITETTLLPPWKWISEHKAKYINSSEYQCDLKNNFQIQYEILRGKRLKIATFPNSKPLSWVTKEINGSLIGHGIAFEIVETLRQRYGFTYDVVVPTRETLLNENGSIIYMLVNGEVDmelAAAFIPVLPGLDDIVKWGIELTQFQYVVLMKRPKESATGSGLLAPFEMEVWFLILMSLIAVGPIIYGIMMLRHKLCGHESGVYPIPTCIWFVYGALMKQGSSLNPDTDSARLIFATWWIFIMILTSFYTANLTAFLTLSKFTLPIKRIEDIASNEYRWISSEGSAVEYIVKVDNDLKPLRQSMFEGNGQFMVINIDEIDTILKYISSGTLLLHDKNWLNFLMLHIERSITDDKERCRYVLTTDPYLTRSMSFVYPKHSILPPLFNPIRMLSYMESGIVRHLQTKDLPEAVICPLNLGSKERQLRNSDLFTTYAVVVCGFSMAAAVFTLELLSRRTGWFATTDLSSRPHDPHSGVVRCEIAVFGKPSKTMYPFSHRHNVMNAASATHFVFHGSSSSSPSRSFVNARSKIASDSSSSSSSPFLWLEGKSSLRRFHY-

>BmorIR8a

AVPWTLPKLDPETGDPLYNEDGQPIYEGYCVDLIQKLSEAMNFDYEIVSPRSGGFGRRLPNGSWDGVVGDLTTGETDIAVAALTMTAEREEVIDFVAPYFEQTGILIAIRKPIRKTSLFKFMTVLRTEVWLSIVAALVLTGFMIWLLEKYSPYSAKNNPGAYPYPCRDFTLKESFWFALTSFTPQGGGEAPKALSGRTLVAAYWLFVVLMLATFTANLAAFLTVERMQTPVSSLEQLARQSRINYTVVEGSSTHQYFINMKFAEDTLYRVWKEITLNATSDQAQYRVWDYPIREQYGHILLAINASGPVADAETGFKQVNDHTDADFAFIHDSAEIKYEVTRNCNLTEVGELFAEQPYAIAVQQGSRLQEDISRALLELQKERFLEQLTSKYWNETLRQSCSDADESEGITLESLGGVFIATLFGLGLAMITLAWEVFYYKRKEKNKVQSTKENVERPPIKSAKLGGKMAVGVARLRKRATKIGKKKNVTIGDSFKPSVSYISVYPKGDYR

>BmorIR21a

MDRRSLYGLLFIFYIISSQEIISYHSESLLKNASRNLLWNKKITSIIKEHNDFAYHYESDLHFGNRIKNVKSKRAVDPVFHGHPKTREELWYERFLNRSSVFDQTPSLIKLIQNITLTYLNECTPVILYDSQIKLKESYLFQNLLRNFPVSFVHGYINEHSQLQEPKLLQPVRECLHFIIFLSDVKVSAKVLGKQSESKVVVVARSSQWAVHEFLSSSFSRGFINLVVIGQSFKEDDDSTIESPYILYTHKLYTDGLGASKPVVLNSWSHGKFSRNVNLFPPKMTGGYAgamHRVVVAAANQPPFVFRRIFYKKIYRIKSDLDGGNPRVVWDGIEIRLLHLLAEKNNFSIEIVEPQELHLGSGDAVAKEIAKGRADIGVAgamMYLTIDRTREMDVTFAHSQDCAVFITLMSTALPRYQAILGPFHWHVWVALTLTYLFGMFPLAFSDKHTLRHLINNSGEIENMFWYVFGTFTNCFTFLGRNSWSKTDKITTRLLIEIGKIFPCYYFRMVLDFTIIITSCYTGSIIAFVTLPMFPETVDTIHQLLAgamFYRVGTLDRGGWERWFLNSSDPNTNKLLKKLELVPNVEAgamIMNTTKAFFWPYAFLGSKAELEYIVQSNFTKTTSKRAVLHISNECFVPFGVTIGFPNNSLYTAKLNNDLRRMVQSGIVDKIVDEVRWEMQRSSNGKLLSAVGGSLKVSAAEEKGLTLEDTQGMFLLLAAgamFLIAATALISEWIGGFSKLCRFRKKKNTLVNSSTKEDSINMPPTDSKDFKTETESVLHFCSRSTSPGSNESLDGQIINVTEESIEIHKQFTSEWDSRRSSSVDLEKEVKEIFERDLRRRGAALXXXXSTASNNAFGDAVK

>BmorIR25a

MCRSSHIFQNSMPLFVVFLQFFIFRLIVSQTTQNINVLLINEENNALAEKSFEIAKEYVRRNPSLGLAIEPVIVVGNRSDAKTFLENVCRKYNDmelLSSKKTPHVVLDFTMTGVGSETIKSFTAALALPTISGSFGQTGDLRQWRSLNANQTKFLLQVMPPADILPESIRAIVTKQDITNAAIIFDELFVMDHKYKSLLQNIPTRHVITPVKSFNKEDIKTQLRSLRELDIVNFFIVGSLRTIKNVLDAADENQYFGRKTAWFAFSLDKGDITCGCKDATIVYMRPTPDAKSRDRLGKIKTTYSMNGEPEITSAFYFDLSLRTFLAVKSLLDSGKWPNNMKYITCDDYDGKNTPNRTLDLKLAFQEVKETPTYAPFYIPGDDPMNGRSYMEFSTDLSAVTVKDGASIGSKALGTWKAgamLNSPLSLTDSDNMSDYSAQLVYRVVTVEQQPFIIRDDNAPKGFKGYCIDLIEEIRQIVKFDYEVTLSPDGNFGTMDENGNWNGIIKELIEKRADIALTSLSVMAERENVVDFTVPYYDLVGITIMMKLPRTPTSLFKFLTVLENDVWLSILAAYFFTSFLMWVFDKWSPYSYQNNREKYKDDEEKREFTLKECLWFCMTSLTPQGGGEAPKNLSGRLLAATWWLFGFIIIASYTANLAAFLTVSRLDTPIESLDDLSKQYKIQYAPLNGSAAMTYFERMAAIEVRFYEIWKEMSLNDSLSDVERAKLAVWDYPVSDKYSKMWQAMKEAgamLPNSIEEAVQRVRDSKSSSEGFAWLGDATDVRYYVLTSCDLQMVGDEFSRKPYAIAVQQGSPLKDQFNNAILQLLNRRRLEKLKENWWNNNPKAMKCEKQDDQSDGISIQNIGGVFIVIFMGIGLACITLGVEYWWYKWRRRPIVGDVTQVEPAKSTRNNIGNFVKGEGFTFRSRNFGLSDLKQKF

>BmorIR40a

MTKLPKDFNVAIKDIAESLPSKEMTVVRGNSTNIRSQDVFELLRLLCQHNIQVVNLDIAAMENKEMYYGYLKKALDVSDERTNLILCEPYECENLLLELRENNLIHRTILYIFFWPYGSVSDRFLNTMVEAMRVAVITNPRESVFRIYYNQATPNRLNHLSLVNWWAFRLYKSPLLPSADKVYKNFRGRVFDVPVLHAPPWHFVKYNNDSSINVTGGRDDKLLKLIANKLNFRYRYYDPPDRSQGSGIIGNGTFKGTLGLIWKRQADFFLGDVTMTWERLQAVEFSFLTLADSGAFLTHAPAKLSETLAIIRPFRWEVWPLVCATLFITGPALWIVIAAPSLWQRKKRDQMGLLNNCCWFTVTLFLRQSSTKEPSSTHKARLVTVLISLGATYVIGDmelYSANLTSLLARPAKEPPIGTLPALEEAMREHGYELVVESHSSSLSILENGTGVYGRLAKLMKRQRVQRVHNVEAgamVRLVLNRRRVAVLGGRETLYYDTERFGSHNFHLSEKLYTRYSAIAFQIGSPYLETINNVVMTLFEAgamILGKMTTDEYKNLPEQSRRSEPVTESENLSTEKTGETAAVTQIQNETSKGLEPVSLTMLRGAFCLLGIGHLLAgamVTLLIEIQLYRRARKRALPPQTRNPTNTFKAKAKKCILRGWRRIKAAAILAIDRALAPDRGID

>BmorIR41a

IEILLQIIINKYLSESYCLVVISETPLSVKLPMSFTYLDPKKEHFSVETLLKLSEEGCSDYIIRMEDPRQFMNALEEIRPMSMVRRSDKKLVILPVTDDENSMEPILNLLTMKESSYYAHILLILPTQTERFECLAFNLITHRFVGSDSESKLPIILDRWYSCTNHFENNVYLFPNDLKNLNGKTMKISTFIYKPYVLLDVDTAVAPLGRDGIEIRMIDEFCRWINCTVQIIREDVDLWGEIYENETGIGVIGSVVEGRSDFGIAALYSWYEEWKAMDFSVSVVRSAVICLVPAPRVLESWELPFLPFGKSIWIAVVITFVYASIGLTIAQGCSSNKALLIVFGTIISQSQYIVSDSWRIRSVIGWLLVSSLILVSAYGAgamLASTFTVPQYEPSIDTVQDLLNSRMEWGANHEAWTFSLALSSEPVAKKLIKQFKIYSFEELQRRSFLRKMAFSLEELPAgamTFAIGEYLSKEAVQDmelQLMLEFFYFDHCVAMLHKNSPYTEKLSELIGRLHQSGLLLAWESQVSLKYLDYKIQLEIRLSRARSDVGDLKPLNFNHVEGIFLIFITGTILSTLFFALEIFIGKQARKK

>BmorIR64a

MNILGLNIISFLCSLDISSVIEVFKCKHVRDVIVFHCFKENQLILPQRMFHFNNFRTVFVFISNNISWELPNSYPKIGVLINTSCDGWEKFQEFQNSHTWVYYTDNLTSTITALSTFPIEINSDVTVVYKENSAYQVFDTYNTGRKNNGVFNVNYIGHINPGLQTNLKFTTRNLNGVTLKSTVVILKKVQYESFEEYLRKTEQTGLDSVHKHKFFQLLQYISEMYNITYDLIRTNTWGYAHDGRIDGMVGSLQRHEADVGGSPIFFKTDRAYVVDYVAETWPSKQSFIFRHPKHPTGVHTVYSRPLSNSVWYCVIAFLFVTASTVFFMLKFNIDEIERAETSQSLAFLFAWSAICQQGMSLRRNSLALKVVVFVTFVCSITLYQYYNATVVSTLLKESPITIRTLKDLLQSDLKVGVEDVAYVKDYFAHTKDPIAITMYEKKIVTGNNRNFFDPEYGMSLVKKGGYAFHVDTVYSYGIMKKTFTEREICEIHDVTMYPPQKMGAVLKKNSPYRNYFAIGIRRLWETGLMQRMKHIWDEPKPPCVRTQDSSIFSVSILEFSTPLFIVVFGVIASVVVLLCETLFDTLFNMR

>BmorIR68a

TIMPLTLFSRSPRSGKTRAVSKASPILEDIYEQKDLEFVLVDLLNHAgamRYHDFTCVAVICDAIYYNVFDGAFFKRIDTVPFVMIVVEEYDDLLSPNFDILEALREARRDGCNMYIILLANGLQAARLLKFGDRHRVLDTRAKYIILHDYRLFHSDLHYLWKRIVNVIFLKHHRKIGSVAKSQAWFDLSTVPFPNPIKGVFVPRRVDLWKSGKFHYNTVPFDDKTSNLNDEVLHVVYLDHVPSVVVVNSNETGQIGGVEIEIINTLSEKMNFRPKLYQPMNVELHKWGQKQPNGSFSGLLGEMVNGRADLALGNLQYTPYHLELIDLSIPYTSQCWTFLTPEALTDNSWKTLLLPFKLYMWIAVLLVLXITGTIFYGLARYQTYLHGLKRQEEMKKPVYSKPVGLYLFGEIINSILYTYGMLLVVSLPKLPTGWSIRFLTGWYWLYCILLVVSYRASMTAILANPAPRVTIDTLVELAASKLTCGGWGIETKNFFQDSLDEIGQKISDRFEISNDPNIAADKVAQGTFAYYDNKNFLKYITVRRQNGFIMETIDNTTNFTSISTKSNNERNLHIMSDCVVNIPISIGFHKNSPLKPLTDIYITRIVEVGLVEKWLNDAMYTIKTLETNEEEIKALMNLKKLYGAFIALAIGYFLSVMCLIGELAHWNCVVKKDPNYDKYALHKYYEKINKK

>BmorIR75d

VNIQNNFANAPELPAYDFRREGVVLDLNCPNSKLILEKASKNRAFIHRYTWLLIHNSTYKLETIQKILSDAAVLPDADVTWCAADDILDIHRLNEHQPYVVMDLGLSVNSTIEDLDAVWSTIPTAATRRRHLNNLTINAVVIVSQPQYFKGWSDLSNRQIDTFPKLTYPMLMLCAEDLRFRFNLKQVDEYGVELNGSFTGTVGLLQRGRAELGVASMFMRSDRWRVLHFSSATVALLNAFMLRAPAQSSVSNIFLLPLSRGVWCCAAALLCGSAVLLAVLSCRLVAADPTLQLLTLPEIFVFSIGTVCQQGFYIMPKLSSIRMIMFLTLLTSLFTFTAYSAKIVAILQTPSAAVRTVADLADSHMDVGIQETTYKKVYYAESTDPSILRLFHRKVAPLGERVYMSVVEGVERMRTGLFAFQVERSSGYEIISKTFTESEKCGLMEIEAFKLPMVAVPLRKHSGYRELFGTRLRWQREVGLMSRVRAIWLAARPRCEGRGVGFRAVRLLDmelLPALQMLAAgamGLVAVVLLILENVYHHYSRTGNVLRRTYRNVFKLVCYKCYTF

>BmorIR75p

MVDVRPHRELFKRRRDVMGRPLTMANVIQDSNNTRYHLPREDALELQYDVIPKICWMTAKLAFQMLNATPRYTFSYRWGYKVNGQWSGMINDLHTSKADLGTNCVVSDVERLSVVTYTDmelLAPFRVRFVFRQPPLPSVANIFYLPFTGRVWAAVAVCAMVYTAAIYWASKWEFNLEKRSASQFDGTVGDAMLLTMSALSQQGCFIEPKRAPGRIMLFVLFTALMALYAAYSANIVVLLQAPSNSITSLAQLAASKVTLAANDVDYNHFVFSLYKDPVRVMIHKRIDPETGNGQFYSLEDGVDmelIRQGFFAFHSIVEPVYRRIEETFLETEKCDLTEVDFLSSFDPFVPVKKDSPYLELLRVVKKKKIRCSFKQIRESGIQSALNRRYQVPKPRCSNKVAAFSSVGIVDLRPVLIMMIYGIISSCLILIMEMLVFKM

>BmorIR75q1

IFKIKNPVAITFGKIGNVEEVTPSNHILFLVDTTCNNSHIVLQEADAHQQFRRSYRWLVLETQGSGYNSKLLEIEPLNILIDSDVLLATKIENVTYVLKKIYKISTQSEWITEDYGNWTAEHGLIMSNIISSDASRRRNIRGHPVTTSIIVTENRTKSELDDLKNLLSDSLAKICFRHTKNLCQFMNASHKIGFASMWGYKTNGTWNGMMGDLAKGTVDFGGTIAFLTSQRLQVVDYLSSPVPINAKFVFREPPLSYQNNLFLLPYKANVWYCTAAFVVLLVIILYINAKWEIKKAEYEQAVTLQPSVSDVTILVISAISQQGSSNELKGTLGRAVLFLLFLTFLFLYISYSANIVALLQSNSKQIRTLQDLLNSNLNIXDGKPLFQTATEPIRKAIYETKVAPKGSKANFMSIEEGVKKLQKSPFAFNMNIGTGYKIIERYFEEHEKCGLQEINYIESSIPWMSCRKNSPFREIYKLGLFKLQEHGITDRENRLLFARKPVCIVRGGNVGSVNMVDVYPVILMFLYGLFLAFLILLVEIVVHRKL

>BmorIR75q2

MSGGFQKNTNINEVIAVRRRDLEGYEIKICYVLTDNDSIHHLSDEVNDHIDTITKVNFPSTNHLLDFLNAERKYVFVNTWGYRINGTWNGLTGFLVNGDVEIGGSPMFFTAERTAVVDFISSPTPTRSKFVFQQPKLSYENNLFLLSFRTAVWYSTLALISLIFTMLLSVTAWEWKKMSQIKTRDIDAgamVLRPSVTDVTMLVFGATCQQGSTVELKGSLGRVVMLILFLTLMFLYTSYSANIVALLQSSSSQIKTLEDLLHSRLKFGVHDTVFNRYYFSTADEPVRKAIYEKKIAPPGVAPQFMSMEEGVKKMRKGLFAFHMETGVGYKFVGKYFKESEKCGLKEIQYLQVIDPWLAVRKNTPYKEMFKIGMKRIQEHGLQNRENRLLYEKRPKCSGRESNFVSVSMVDCYPALLVLSYGIIIAIALVIMENLWQYRHLIKGKLEFFSSVNTIENFNQFEKHPSHNWKKFYVIDSAKIKKINPSTN

>BmorIR76b

MLFSNAQRSGQNFPLSWIERDENGTVQAYGVAFKIIDILQQKFNFTYEIVIPHRNFEIGGSKPEDSLIGLTNTSKVDmelIAAFIPRLVRFRKLVTFSRDLDEGVWMMMLRRPKESAAgamSGLLAPFNNFVWYVTLASVLCYGPCICFLTHVRSKLIKNEERPLRLSPSFWFVYSAFIKQSTNLAPEANTTRVLFATWWLFIILLSAFYTANLTAFLTLSKFTLDIETPEDLYKKNYRWVSVEGGSVQYTVKTQDEDLYYLNKMVTSGRAEFRTLSPDQEYLPIVKAgamAVLVKEMISLEHLMYGDYLTKTREGVEEAKRCTYVVAPKPFMKKPRAFVYPVGSKLKSLFDPTLAYILQSGIIDYLEHKDLPSTTICPLDLQSKDRQLTNSHLMMTYYIMCVGLASGLAVFVVEILVKRYINIKIKPIDKVKLKKFKRSKRSPRYDDSGPPPYESLFVKPKFKDSEKRWKMINGREYYVYEDARGGTRLVPVRTPSAFLYR

>BmorIR87a

MTTGNSDQIAKTAECVLKLSAKYFVERKALSGSIVIINVNSYSSTTQGLLLKTIHSSIKYSVMAKDSFYPHANASHFPEKAKNYMLILEERTELKRNIFQLNKLPSWNPLAKAVVFYQIKGNESAQRIAIEFINELREHKFFRSIIFINNGTESGVTSYTWRPYSENNCGGKCDSVYVLDRCKNNIVEQIEPQPEWFPSNMNGCPLTTYAIVSEPYVMPPIRKIPNAKFDDVYEFQKGGETNLVKTIAEFSNMTLIVRLSAIEENWGIIYANGTATGAYGVLRNDSVDIVFGNIEVTKQIRKWFHPTISYTQDEITWCLPKAgamQASAWDNLVIIFQWTIWVATFTSLILMGLLFHYMYYREKNKKITKWPTNSLLMTFSMLLGWGSHFEPKTATFRILIFGWLCFSINMGISYESFLRSFLMHPRFEKQIATESDLIQSGIRFGGREIYRTYFESNDASSSYLHTEYSSTTFSEGIRRAALNRDFAVVSSRRQAEYQDQKLGKGASLIYCFPESDNLYKYSVVLLARKWFPMLERFNGIIRSVSENGLINKWNDEMFIHRVSLEGASTIVPLSIQHLLGAFMFIGFMYGTSAFIFLVEVFVGFVQRRAFLSAFFCGKKKRFSAVFKVKV

>BmorIR93a

MKIWVLGVLCLAISVQGEDFPSLITANASIAVILDRQYLGDKYQTVLDELKDYIKELARVELKHGGVLVHYYSWTNISLNKGFLAVFSIASCEDTWELFSRTEEEDLLLFALTEVDCPRLPQRSAITVTYSEPGEELPQLLLDLRSSNAISWKSAVILHDDTLGRDmelVSRVVQSLTSQIDEESARPVSVTVFKMKHEMNEYLRRKEMHRVLSKLPVKYIGENFIAIVTSDVMTTMAEIARELLMSHTMAQWLYVISDTNAHASNLSGFINTLNEGENVAFIYNITENGPDCKNGLMCYSQEMMSAFISALDAAIQAEFDVAAQVSDEEWEAIRPSKVQRRDILLKHMQQYILAKSVCGNCTLWRALAADTWGVTYRQNDVPEQINEHANGSTGVIEHLELMNVGIWRPIDAMTFADLLFPHVHHGFRGKELPIITYHNPPWTFLQANESGAIVKYSGLMFDIVNQLAKNKNFQRLPHPSNRNALLLHGRNRQGGGTYPCGLTKGPITYNNIPLYFRAVFIAHQAgamVNLKNNYYRCINYTIPVSTQPHTFIVARPRELSRALLFLLPFTTDTWLCLGFAVILMGPMLYIVHRLSPYYEAMEITREGGLATIHNCLWYIYGALLQQGGMYLPRADSGRLVIGTWWLVVLVIVTTYSGNLVAFLTFPKLEAPVTTISELLKNSDAYTWSVTKGSYLEMELKNSEEPKYKRLIKEAELLKETGGIEGTIHAARGTLDRVRGQRHLIFDWRLRLTYLMSADHIATETCDFALAVEDFMEEQVAMIVPAgamSPYLPVINKEINRMHKAgamLISKWLSAYLPKPNRCLKISTVTQEVSNHTVNLSDmelQGSFFVLFLGNDKIYVYMYIAELI

>BmorIR143

MFSVKYPRFYLFIIQIASNFGDAVTMPQLNSSINSKSATDCLIKVCYADLSFRRTVILKHVSYESDEENAFYNEIIHAVNNNNIQLVVLEEIDNLNDTINIDDADWLVVVYFKNCKALTEFNVKIVFEKIKYFIIVSDDLNEDCTSKMKTIGNVINKYDVTFVFNENKEDNFKFMTFIPQIDEETCKEIVTLPKIVNICANGQIERKSIFPSKNPKDIKKCPINVGMGSLYPFGIINHKEKYKTFDPLNETEVRGLDVDLVKVLVNQFNGTLNLYFIYKKEENPFGQLDFIPLVLNGSLDVIAgamGFYRIYGNVVAYSGIYTSQAVTWMYVANRTTKSWQSLIVKIDGLYIFVIFHLIYSYVWYFVRKFDEQAVDFRNTILYSWGALVGTTSLQDALSLKQRILNLTYLIMCVHLSAYVSLHLYYFLTVLEPPELLKSNDDVMRSGRPAFLIPISKYFVLDEKYLSFANASEECTKFQDCSDLSLLRNGVTIILQGFFLNYQARTAINYEAKVLSAAENVLTVYYEMLLRKNSPYVERLQKLMTHLFEAgamIPDRFYRHAIGLTVIGKAHSACQNTVSNSYSCQSGCKITFDQFAgamVFYLWLFGCVLSCGAFIFELFSKFGRA

>NeriIR1

MDTMHQLLHNNYRVVAPDEDGWWELLSSATDDDASGLAGTASLVDSYPTGIKEIITSSKTDKPATFFASKEYLTYIINTNYTKSKVGKRQIFHISKQCFLTQMISIILPPGSLYLETFSDAVMRTAESGLIEKIRKDIEWDMYRGAARASLQDGLTLEPMERELTLDDTQGMFLLLGVGFGLACLSWAVEVGSWAQGRDVGALGRASLQAVSRRVSRALLQPI

>NeriIR2

MSAGAGFYLQMLGGGQLPLSIIVDYFTHVSVQSLLLVVCPPSGGNVELLLRLSASGFSVSFSPESLPSLPIFRTGALMDLTCPSAKDVIKKFTKSRNFGVNTEWLFLDYFNSTGDFQMTPGVEKVRDAYILPSSSATLLQTDGSKLSYYEVFRPGVTRPMEVHLRARQRSEDGFAPLPPLSPARLNFKKITLTAAAVLYHMEKFTGFDSYDHPEVDTIPKVNFPIVQTLSEQLNFSLTLLLIDDYGWQTNMTFSGLMGMLQREEIDMGATGIFMRPDRIVTVDFTGDTFQINNKLIFKQPALSSVSNIFVLPFTVMVWICCLALTTLTCGLLIFDNCVTTGRREAFIGYVNSFDIITTIIGCVCQQGATIVPKSGSAKLTIFLFSLCTLFFYTSYSANIVALLQSTSPTIRTISDLTNSPLAVGVQDVIYNQIYFEETTDGDIQKLYHKKVLPFGRKAFMQPEEGISKVRSGLFAYTVETHWGYKIISDTFLESEKCGIDEMRLFLLPKLSIPVIKKSGYRETFTVKNTLQRDVGLHSRVKRRWLLNKPVCDSRGRGYVGVGLTDFKPALLVMGYGYLVAAMVFALELLVHYRLKLIKNDETLQAWQEIESNFRKKKKF

>NeriIR3

MLPRPGRVGGWMVPFLPFNLQMWAAFFFSLALSTLSLYFVTRVSVKYTRFREGLLAKMQFTTIEDSVMRAIGLSVLQAPSSRLIGDSPNRYLFTSFEFLYLILSAMYSAELASYLTVPLFNPPIDLFHDLARSGIPWLATQDVWVYAISESPDPDARAISSLFKVLPMEELKAKAKEGKYGFPTERLPGGSITEQDHLTEDVIPLYHIMKEPIYGSPLASVMKKGGPYNEHYDRIINRVVQYGMTLYWEADVSRKFLNSKIQAEYKEAKSPHVDTEPSVIKLSHIEGILYLYFFGICT

>NeriIR4

MRLGIITVCIALYFKTSITLKLIVLKEENSTIWDDSGGRDGWQAEEVIELDREHASDSFQRVCKTLGEGGAWLVVDLTWSGWSEVAQLPGLRYIRANLGIAPFLRAVEAASVKLRNSTDAALIFQKNSHLEQSLWYLVSESVLRVTVVEGLDNETAANLLDMRPSPSSYVIIADTPNVNRILEAAVDNKLVGLDDRWVLLFLDMDYKQLNRKLLQKKMMILNLSARECCRKGEQQPCQCPQPFDIEKEGIDQFKDLLQNVITGSLKAGVPSTDVVYDCATGGSNNATDQQIILENLNSAMSESWALWLDSNRSHLVPVEVSLRVELEISVDGGPALVDLGKWDSKFGLRPAAVLPKVKRFFRVATGYNMPFAYDSKTKKKSDGTPEVEGYAVDLINELAKKMDFEYELVVSDDFGHRDENGTWHGLIGLLATGRVDMIIGALTMTSEREEVIDFVAPYFEQTGFSIIIRKPVKKTSLFKFMTVLRVEVWLSILGALGLTAVMIWLLDKYSPYSARNNKDKYPYPCRDFTLRESFWFAVTSFTPQGGGEAPKSLSARTLVAAYWLFVVLMLATFTANLAAFLTVERMQSPVQSLKHLARQSRINYTVVKDLDAHAHFRNMKNAEEILYRKWKEITLNSSTDQSQYRVWDYPIKEQYGHILMAIEKAGPVADLEEGLRKVQESEKAEYALIHDHLELKYHVYNNCNLTQIGEPFAEQPYAIAVQQGSHLNEEISRRILDLQRERFFETSSAKYWNSTEKAKCDSVDEDEGITLESLGGVFIATLVGLFLAMLTLGVEVWFHKKKLKGKINTKGEKKIPDFIKDEIFTSKEFSHHNIGNKKASLLNTKLKPKVNQIQVFPRGQLY

>NeriIR5

MMYSTLSKRASTKSMGHTCTSANFKVIEKSLRFQNAVTAFRQLTNKSPLYNVKHLPENYEAPELLISYHQPQRIGIFLDISCDRGVYLLQGSGDLFNASYSWLLWRDAGDAGAVTALFDDTRLSADSQVLLAMPGPLLYDLYRMHSSAETLLESLPPEGAAYRDPFNRTDFGGMVFNASLMMIDIKFNESNLIHPLLDKTYESGKDMVRRYGLAVFIHLAEMYNFSYSYVLTDAWGDPLPNGTVTGMVGQVMRGEAEFGLAPAKYIVPRYAIIDYVTSLHIVKVCFTFLQPKLFGSAKALILPLDDVVWYCLAGIGVLSVIAFRILGQFDHTGVSNDSWGGSFLLVIGAISQQGIPDTTERNSTRIVYILLLFVCFFTAIYYNTAILNGLLLQAPNAIQNIEQLLKSDTKLGMLDIPYLHNEMRQNDTLTVRVREKINKAKPKKLYFDAAEGVSMIKKGKFALYTEDEAIYTEILHQMTDAEVCSVSEVVKYNPFHVGAIAKKNSPYKEIFNRAFSLMRERGILNRQLEHWLEKKPECHWRQDALTLGVEPLALAYAVFFFGLAASGLVLGFELLLHRRQTRKKPIDNFK

>NeriIR6

MNNQGYRLLVEKHSGSHTFLENGTGLYSSIWQKMKSQATYLLNSTEEGILAVRDDKKVAVIGGRETFFYNTRRFGIHHFHLSEKLYTRYSAIAVQIGCPFLHNFNDILMALFEAGILTKITEDEYRKLGEKSSVSEEETVEGSPEKTTSNQREDDKELKSMSMKMLQGAFYVLLTGIGFAGLVLGVERLMHYCEKCKK

>NeriIR7

MTPRPTRVGGWMVPFLPFRLDMWLALLLSVFLSATSLYFITRASIKYTRFREMLLRKVQFTTLEDSGLRALGLVVLQQPSSRLIGDSPNRYLFTSFEFLYLVLSAMYSAELASFLTVPVYNPPIDLFHQFAQSGIIWYGTHEAWTYALRGSPDQDARTIVDHFRVLPMEQLKQVAKEGKYGFTAERLPGGSITEQDHITADVIPLYHIMKDYLFGSPLVVSIKKGGPYNKYYNRVINKVVEHGFSLYWEAEVARKYLDSRIQAEYNEAKTIHVDSTPAVIKVENIQGIIYLYAIGIILSFLSFIYEKFKPPVLDSKDSSVEIKSENGQ

>NeriIR8

MWLGVLLAFLVCSLVFYGLAKFQKDLTKETKQEKSKYSFWKDLFKLWHESKGIVKKPSLQLNSGEAPSGLHIFGDLESSIMNTYSMLLLVSLPKMPTGWSLRVFTGCWWLYCILVT

>NeriIR9

LHEVNRYELTTVPFPSSLTSRLRPVWVDSWKAGKFQKNNELFIDKTLNLYGEDIFVATFEYMPSTTKKFTQVILDDDEELMKTSVEYSGLEIQILRSLSDAMNFHAIIYEPSDCDTEAWGKKQLNGTYS

>NeriIR10

MFLLYILIVGEAIVTVIAQAGVQTINLLFITEDRNELANKSLEVALTYLRRNPRLGVRVDQVTRVSISGTDAKAILEELCQAYNVSVSSGKPPHLVLDATFSGLPSEAVKTMTAALALPTISASFGQEGDLRQWRSLDGEKLKYLIQVNPPADIVPEVIRSIIEHQNITNAGILFDNSFVMEYKYKALLINMPTRHIIVRIDDNKDLKQQLTRFRDLDIVNFFILGRLSTIKMALDTANANKYFGRKYAWHVITQDKGQLTCTCNNASILHVKPEPDPSCKERLDSLRTSYNLIDEPEITSAFYFDLFLHSILALKALLDANEWPKDFNYTLCEDYREDKEIVRKDLDLMKYLKEVSEPYSYAPFLLQKNGKSYQEFTMKLEKVAIVNSQSESAENIGNWKAGLKSPLILKDPEAMNNFSAVTMYRVVTVKQHPFVIEYQENGETKFKGYCIDLIEEIKKIVGFEYTITVAPDNQFGNMDDNGNWNGMIKELIEKRAEIALGSLSVMAERENVVDFTVPYYDLVGITILMKKQTTTTSLFKFLTVLESEVWLCILAAYFFTSFLMWVFDRWSPYSYQNNREKYKDDEEKREFNLKECLWFCMTSLTPQGGGEAPKNLSGRLVAATWWLFGFIIIASYTANLAAFLTVSRLDTPVESLDDLAKQYKIQYAPINGSSAMTYFQRMANIEARFYEIWKDMSLNDSLNEVERAKLAVWDYPVSDKYTKMWQAMKEAGLPNTLEEALNRVRESKSSSEGFAFLGDATDIRYQVLTDCEFQMVGEEFSRKPYAIAVQQGSPLKDQFNNAILQLLNKRKLEKLKEKWWNENPEKKTCEKQDDQSDGISIHNIGGVFIVIFVGIGLACITLGFEYWWYKYKRPGGAPTMVKPGGGGGGAHGRNMDKLSVTGLGDFSHHPNFRARNAYNSNLKGRNAFGQPPVSQW

>NeriIR11

MSIINFMKARQRGFGRCDNCTRWKIRSSDTWGSDFLKEKQSLLDIGEWAPRPGPLLFDELFPNVAHGFRGKTLPMFTFHNPPWQIIKYNNSGKIVDAKGVIFEVVNELARSLNFTYSLRPWSNTSNHNNSQSYKFDESVGDIVLEQTTEFLAWDENVRLVQNKKVFLGAAAFTVTEERKKSLNFTSTIKTENYAFLVSRPKELSRALLFILPFTSGTWLCIISAFLVMTPLLCFVHRVSPYYDHVSHRGKGGFTKMMNCFWYLYGAILQQGGGVMPEADSGRIVIGTWWLVVLVLVTTYSGNLVAFLTFPKMDKVISSVDQLMERRGFLTWGMPEISTLHTILKSTDNEKLNELSDGAILHKKFSNDIVDQIREGKHVYIDRKSALLYVMKQEFVASNHCGLTIGEEEFLTEELAMTILPESPYQQIINDQIYKMHKVGLINKWLEEYLPKKDKCWSKILSSESQTHTVNMDDMQGSFFLLFLGVAFGTMLIIGEFLFKKWKRTQQRQAIHPFVS

>NeriIR12

MESLIPIVIVINYYQSINIGSLSVILPCSSAYSKVKALRELSKSHIMTSFSLNSVREEMNMKNGAILDVTCSSSADILHEMSSRKLFSIDCEWLLLESSNEIGLFNKTYLSPINEDLYILPGSRVTLAQYSVNNGMIAFFDMYRIVPWTPTKFELMTLKQLNSTKNIVLRKERSNFEGVTLRTGTVILLRDEFKGFGSFENLEADFYAKALIFVARDIAFQYNFSMTLLVEELYGVMDKNGNFNGLVGKIQRNEIDLIASGVIMRQDRMSIADFTGSVYEIRSPIIFRQPSLSALSNIFLLPFSKSVWFAAVITSTLFAFVLGISYRIGNYLHKLSDRFDISIAETVTTILSCISQQGPLAIGDAPRARIALLLFELMIFFLFVAYSAKIVALLQSSVQKIKTLSDLIESPLEVGIQDIIYNRQFFQETNNPEHMLFYSKKMKPHKNDAYLEPEEGLKRLKSGMFAFKVETEWANRVIANTFEEKEKCGLGEINIFDIPKMSMPVPKRSGLREHITRSITRQREVGLLTRVTKPFTSSKPICNSHKLYTSVNLVDFKPALKTALFGAVLSVSLLLIEIFMSIRVILLKKIKESRKPEQLFRREI

**GR**

>CchiGR1

MELDNLTEFNTAHNRRISMLGIDDKKTLPPPGKRRRITFAEEDEIINPEDVDPSVGRFRNLVSSTVVPVKKPRLSVDLGTERVKFSSGEVHPNLLARRGGVKGGGGGLYDSLYTDMPGPDSSLSSSPSSLLLSSSMASKLGLSLPNPAPDVELEDPTMPPPSVPASKATEPTDTTSGGDQEKYQEPAKKKYAKEAWPGKKPVPSLLV

>CchiGR2

INPYIATLLLGVAEIFGAFICVLLIHYTGKRPLAIISTGGAGLCFFVVAVYAQFHQSHGWDAPVIPLVFLLGFGFVTYLCIRLLPWMLIGEVFPNNIRSTASGAAASSSYIFGFLINKLYFPMRDMLDLHGLLYFYASVNILGMALLYVFMPETESRTLSDIAQHFADKSKTFDTKIVRTDKIKVGGKDAAKVGVENLAL

>NeriGR1

LELDASEMYFGDKVGNGIRRNTRLASFKTRKRNGHIGNDLSPAQNILSYFQNEDKKLFERRAKVENIRRDNVQVELQIPLTIGQLISIFPMNGVRSSDPTDLDFRWSTFKFAYSAFIITFSVSLLVFTLMKGFQGGIKINNFGDALFYGTSALLSLYFLHIVRIWKDLIIKWAAVQEYMSDLKDVPVRKKINFITVWLTVSSLSEHVLSNSDSLLREVPPGVSKLRQFLESRHQQVF

>NeriGR2

MWAVTLYEIRVISRDLVRSLSFEGTSDLGRKRIIWLKLSCLASMLGDMFGHTGLTYLILLFTTFVPTSYGLLAFFFDHSVTSNAFWGLVITATICVSAKFMICDAAHRTTYEVGEVFSEELLQQDLSKLPQNTTNEVVLFLQTMAANPPHIQFHGFITVNRGLFVSFVSNTVTYLVVLLQFKASSMSVPVQSNITTTTHLYEM

>NeriGR3

MTLQLSELAVGLGSALGAVLVSFTVILLVSSVFALYALLTGRKENSPVIATAFAGAAFVAGAPLIILAETGHRATQVMRDDFTVKILKKSATSISESCRSELRLILEGLAAFPPVVHYSGFSSADRKTLTSIAGSVVTYLIVLGQFSGKAHETQLQTVAHNGTEGMQ

>NeriGR4

MVIFIQLAYKWKNIILMWTEITEDLKFDGRDTIKLLRNLTYSIFFLSVGEHIAANVNAFYKDLSKDSDNLKVFFLNKFFFIFNMTEYAIWKGVLLVAIHFQMTVVWNFIDIFIINVTIVLSKMFQFYNNNLIKDRSIIQVILSVHLLKIQSRLLKAKTLGI

>NeriGR5

MNNNISNLLILSFGSNLFFVCMQLYYTLTIGSSIAKNLYFITSFVFLLLRTCTVCLSAASVNDNSKKTLDILFSMSSTQYNLEIERLVDTVTADTVAITGYNFFYITRKLILGVAGTILTYELVLVQFNSFHEES

>NeriGR6

MITLLISTVFGIYTLLVGRKNNTICVSASLIFFSACAVMPILLLCEAGHRAANVIKDEFTLQVLKKDVTALSESCKAELMLILEGLKEVPPEVTYKGFASSNRNTLTRMLGSVVTYLIVLVQFSESDCGAWDHFLDNNATKETG

>NeriGR7

MRRNPSLCSDEQLRLYILMKPHITFSACGFFTLGYPLITSIIAAALTYLVILVQFSKDAF

>DpleGR1

TMKVNVYCEMHVCLRVLMRLCRWAGFFPVEGLDKLNMCEIRYNIRSFYAFYYIITLLSQTYFAGYTIYWFFTSNLGLETMTNLLFHATGVLSNILLLNLARKWFKILRRAADIEKRAFMICPKTINVKKDRITWSLMTLALLEHLLSVVYKYQGLKKWNKYSSSSYLVLLGKILFELTFFYYLQCLLLSLYLFVILSQVVVLQTTFLWNFTDVMTICLSTYLTGFFQNFNNIIEENQKEVITLTVKWGDIRILHTHLVALVMLVDKNMCYLILLSFFTNLFFICAQFFYLMSKVQSIEDFVYYFYSFSFLLTRSCVTSFLAANIHTVSKRPLMIIQHLPSAEYDIEIQRLIRQIRYTTTALSGVFFHITRGMILQVTSNL

>DpleGR2

SWKCFGLLLSMTGQILMTIMCIYNTVYSKASLNIETPVIFYGMTCITMAMFLRVATLWPKLVRHITAVEESDPNYDTSLNRKCNVTCVIILLLSSFEYVLSLLFAFVKASELKNKDSWCESFAEYLYPWVFNYLPFSPLLGVMVQLIHFQATFIVIFSDLFIICMSYYLTSRLRHINTKVLVARQKHLPEIFWGRTREDYTRAVKLVRKVDDVISGIIFISFAHNLFFVCVQLFHTLDLILESWAFLACIHFLHRRSSALGGYKTETYFVFSLIYLIIRSVAVSLITSQINTASMSPALVLYDVPTSLYCIEVQRFLDQVTGDKIALTGLQFFRVTRKLLLNIAGTIVTYELVMFQFD

>DpleGR3

DFIHTLTNVLSWSRWVGIVGLKRHIWKIYGACMMCLLLAIEFRAIYKVFKALAGWAVDTVGHRSVTARLAGTMFYSAAIFALIQCNYLSHSWKETSKYWSSLEWELSNKHVPIDKTLRRRMYRSALILIFCTAAIYLMNYLVVIDFKCKISYCLKTFVLRTHGFMLLEREYSDWIGVFILFVHVISNIIWTLQNLFIILMGMGLTSRYKRLNSYVATVVRGNDRKEKMSEKLRNQEVLLVYTWKKIREAYTKQAILVHRVNKSLGGLILVSSFFDFYFICLQLFYGIVQGISSDGIKHLYFLIHFSWVCGRTVYTILSAAYVNEYSKLALPHLYKCDSQFYNTEMKRLQRQISRENIALSGMGFFNLKRSIILQV

>DpleGR4

FQDFILTISKVFSGVRWIGIVGSSRIKWKLYALILFCLFLAIEGQASKKVMRALAGVAVDISGHRSVAARLAGLMFYTAVLLGFIQSNRISNSWNDISVYWASVEWSQNIPNMSRDKTLRKRMYRVTLVIIMSGSVVYFLDALQAINFQCELPFCLKQIILKTHGFLLRESEYSDWIGILTLFMSVIANIIWIFQDLLIILFSMGLSSRYRRLNECVEVMVAENNRNKNWNILQIYAWRKIREAYIKQAILVRRVDNTLGGLVLVYNFFNFYFICLQLFYGIIQGISNDGTKNYFFLIDLVWVAGRTIYTILSAADVNKYSTMALPYLFNCQNNGYNIEVQRLQKQLIKNYVALTGMGFYNINRSVVLQV

>DpleGR5

KNNLYPQIKNIPNGFAKQISDRPNNKIVFLDVPSPRTEQLNHITTNSIVPLRDNLISPQINSDIIYENIKPVFTLLRIMGVLPLTRTSPGHNQFKMLSPSMVYSIFCFLGLVSYVMYLSLHKVQILRTTEGKFEEAVIEYLFTVYLFPMMVVPIIWYETRKIANILNGWVDFEVCYKKLSSRVLPIKMYKKALTMAVVIPILSTSSVIITHVTMVDFKVMQILPYVFLEILTYLLGGYWYLLCETLSFCAGILAEDFHQALRHVGPAGKVAEYRALWLRLSKLAQDTGLANCYTFTFVNLYLFLIITLSIYGLLSQISEGFGIKDIGLFVTACCSIFLLFFICDEAHYASLNVRTNFQKKLLMVELSWMNTDAQTEVNMFLRATEMNPSQISLGGFFDVNRNLFKSLLATMVTYLVVLLQFQISIPDNTQDTYEDEKLITNDTTATDATKITTTLATTILTTLAKKK

>DpleGR6

FYKQISSFFGLAPLRFESRSHGFSVRMSNPMCIYSYILVTVLVICTVFGLVAEINVGVEMSVRMSSTMSQFVSTCDVLVVVITAGAGVYGAPKRMRNMLKFMESVASVNTSIGAHYSLVAERKLCAVLLAILIFFSVLIADDFCFYALQAKKFDRQWEVVTNYIGFYLLWYVVMILELQFAFTALSVRARFQAVNDALALTARHVSISEKVKEQTPMNMFAIQVGERREQPQSHPVIVRNTVSGEPKLIVPPCEAIRRLASLHGSLCNVVHRIDNSYGLPLIVILISTLLHLIVTPYFLIMEIIVSAHRIHFLVLQFLWCMTHLIRMFVVVEPCHYTITESRRTEVLVCRLMTSTPSTGMLPSRLELFSRQLMLQSISYTPMGMCTLDRPLVASVLGAVTTYLVILIQFQRYDT

>DpleGR7

IQLFFCLDFGFVEHKSFRMKFIWKFGIFLLSFCLGTFCMVSLFTCVPDYSDIWYVVHLAEFYFFVLIFIYTPRKNTFHSYYIDLKKFDKLVGVHSSSYNIEVKLIFFWLLTCSLDIILATPHYVLDGGYIRPKFLFYIILFSYHLPLLILSFSFYSTFLRLKTLKNLLHKREIEILRAHQLYKYMIDSLDNMMKIYRYVFLEDLVISIPAIIASIYLLLKDLTIDNFILQLNFEIFEPYIALSYIISIKIGPSLAATKLFHVAITIKELLSNRLIGEFDECQCQFIERFIRYIDTRPFKFAMLSVIPMDASLLIIVSDFSITYLIVPLQLTHIY

>DpleGR8

ISKPLRFFFIVNQIFASLDFGFKEYKTNKMRLLSKLGVIAVSLIQGTIIIVFLFIKMNFFYQKWVLKLLLEYYSYVLILIFTPDDRTFCFYLMELQYFDEQMGIQSSSYKIDFKIIAFWCVSSITDATLMWINYLTSDKFINLLTLNGLLYIVKRTCTLPLILLFFVFYSMLCRLLKLKLYINNKKISVLRALELYRFLIDAIEKVIGTFKYI

>DpleGR9

TVDTFSPLYWQLNIFSLQCQLNVNIYFQLLRMALAAIISCLITSFSLYYKIVNIYHHLLASIKYTDTVQAIYDYLQYVFDLFCVFKYGSDIFREYINQYAYIDCLLDMDYYRYIRRNLMKVMVFLFCMWFCSSVFDFVTWDIGFGFVSTSAFVMGYVYTLIKILSNLDLTAHIMQIEARLRVIGDTIQNSYQSFDNICPKFEDTIGKKNWFYNDCRTSTKTTDVRRNPCLCSNDVKWLSRCYVLLTEQVTFINNMFGRRILLNSLSFLLDLVRYINLSVRILIGTQVIRCIGSSKQPATSTVFKAVNCAIVIFSLVSHCERTYRQRDRIIKLIDHLTLFKKLDDQLLSSFMDMRNLIVSRSITFHTDFYTLNYSWLVSIASVVVTYSIILLQNFN

>DpleGR10

KEMKYFFNLIQIITFLDFGFNEHKSYKMKLFWKFYRMISFLSLGTYILVLLFTVIDEYFTTWGIKLLVECSFYFLILMFTPEDKTFSSYIIVLENFDKQIGVVSSSYRILLKIILYFSLGCLFDILIVCLLFLSSDGDMNMICATYALFFIHRRISGFPLKIVFFVFYSMLCRLQKLRLCIKKRKFSVFRERLMYKILIDSIENTLEPFKYIFLVCLILNIPGLMASMYLFLELTQLEEEMKFTVITYLFLIPIIITIILPTLAASSLSQEAQNIKMVLQNRFIELKYSNKTTERFIDFIDGRPFKFFIFSFIPMDATLLVVILKYCISYFIVLVQLTHIY

>DpleGR11

KRMKYFFITVQVITFLDFGFIECKFYKKLFWKLLTFMSFLFFGVMALVYIFVAQNTYFQIWSVKSLLECLFYVIILILTPKDKTFCSYVIALEYFDKEIGVSSSRYKILPKIIFYFALGTIFDLFFLVLLFFSSEADIITIRYTYILFNVPRRTASFPVMVFFFVFYSVFRRLRKLKLYIVKRRVSIFRARQYYKSLIDSTENALTYFRYIFIVSLLFNVPGLMASIYCLLKTTSHKDSINFTTLTYIDLIPIIVVNVLPTMAASVLSQEAAQIKMVLQNVLLRQKCISDENSITEIFIKYIDVRPFKFYMFLIVPMDARLLVIIVNYCMSYLVVIIQLTHLY

>DpleGR12

KELEKLSYDILDDDVVKIFEALHFQQKILGTLRVYIKNSFATAPSKIYTYYKIFFWSTIGLMYSYFINQCEIVDDVLIEKKYLKLAFLVDYAVIVAIVLRNTLQKNKYHLIYVNIQRLDRNLQIKYKKINGYMFMFNSCFSIFGSIFGILWGFLFHYNIIKGTCLADFAILLPGMASAVDVTLILVIITFIIIRVRYMNMKLKDITKKQSKINSCDPESLTDENIVWNNLLNGMETILAIIDDFNELFQCQIFFFTCQVVTWAIILIQCIILTLKNQDSVNSTGAMIMTSIVIVLMSFFMALCFLTQYFASHLLMVKTKCIKIMSSANNDTTRRNAKRMLLLINAKSELSVFGMFTLNIDLPVQVLAIITTYTIVLLQF

>DpleGR13

EYLSDDLLDEGYLKLFAPFRFVNYFFGSCRIDARDRFVTAPTWGQKAYTVIILILAAALHVYVISYNISKLYEYQIIYNICVLFSTLNFIMYALNIIHVRFMNNENNVKFYIQTQKADRKLKISGNNPCNMVLYYINLCSVGFLIVLTLIVLSVVYIYSKELFASFAGLLFLQLTSLMEWIFCSNIIIYFCLRLRFINAIMRNHLKGSPNAREVNSKFFLPTRKRMRCIVANTHELNSSATDEYLKDIFDVISRFQELFRFQVLLFCFKFVLTALLVFEFILLAMQNNVGPLRDKARKMIKLIDEKPHHSIYDMWNMDASTMLNMINVVTTLLVTLLQFALL

>DpleGR14

QYFFDVYFINKYGGQTFLHYITTYETIDKYLGITSYEEIKGNIRRMCFILLVIVPLTIVLDFFSCFLTVGWTASIIYTLQYVFYFFKIINTLDMISHVFQIKYRLKSIGNSLKHYYYNSDNVPGELKDLAHRNFFVIKTIHEQKRVPSDIMMFNKCYLLLSKQTYYINNLYGFRILTYNIIFITEMVMVLNLLIRLLFGSLSAEYSWLLIMAAATRFISISSFLFCGVNCCEKSYRQIDRILFWIENLIANKKLSSEMRVAITELKGVIQTKPICFHVLHFYKLEYGIILSIASAVVTYTVIFLQNVS

>DpleGR15

QYFFNVYFVNKYGGQSFLNYIETYETIDRYLGITSYKDLKRNIKKIYYLILAIVALTILLDFICSFIMLGWIASIIYTLQYVFYFFKILNTLDMISNICQIKYRLKSIGNSLKHYYYNSDNVPGELKDIAHHNFFVIKTVHEQKRVSSDVMVLNKCYLLLSKQTYYINNMYGFRVFIYNINFVIEMVMILNLLIRLLFGSMVLEYSWLLIMAAVTRLITICSFLLCGVHCCEQSYRQTERILFWVENLTANKKLSSEMRLALSELKGVIQTKPICFHVLNFFKLEYAMVLSIASAIVTYTVIFLQHIS

>DpleGR16

LILGFVQYIVDIHFVFKYGREFYLQYIDRFELFDRTIGIAVYEKIKRTINRICVFFILITFIGSFVEIIIWYLSYRSSSHMFYMLYYIYDFLNLLSELDFIANCTQVLFRLQSLEHKLKDFLCHVTNLPVPYNENNHSVVKSSNKNTNISAHTLTETVHRQNVVLLLNRCFLLLTDQFDYINIMFGLRVSKSDNKYVVLLFTISAFIMIYLNFRYCSPAGSRYLPISVTIVQIIVNSIVVFSIIHICERNYGQIERIIASIDGILHEKDVRPDILDSLKDLRNTIITRNMNFNAVKFFKLEYPILVSISSLLVTYGTILVQNV

>DpleGR17

YYMSIGMISDLGTSLSFVQMFHLLFNIQYFFDIYSVHEYGGHAFLRYIAIYQTIDKSLGVISYKEIKKNILEICLTMFAIVPLTAVFDFIYSVVTLGWLVSIVYTVQYMFYLFKILNTLEMVSHICQIKYRLKYIGDLLKYYHYYYDYMTEVHQHLSYRKRFFINKGNELNQIPRCYLLISKQTNYVNNMYGFRIFINNVMFVIEMVLLLNILIRIIFDSLVIDYSWLFMMAVATRLISICIFLLCSVHCCEQSYRQTERIFFFIENLIANKNLSPGMRKVVTELKEIIQTKPIYFHVLKFYKLEYGIILSIASSVVTYTVIFLQSVS

>DpleGR18

KNILVRYKSVLVLLLVCGFNYKVFRMSPKCKFILNIYCAILIIIIGISTLYCCEITSNTMVIWPLIEYILSATILVFYDSKLTKFAFELSRIDSFLRTDLKYYSRGKIGVFLLILTLWLVRLSFMIIFCFLYSCFSNVIFFVISVLSLLALDVNRIWRFLLLEIVRYRFLLLRQKINEMIENNSKISISEQIHFKKNKIKLCNKLYKSVLDVIDIISPELSASMFVSIICSLPKLISNVYHILLVFENHEPIQSIGFVLIHMCHTCFLLFSPCVVVELQCLEVDRIRLILVNQLLIEDDPKIRDDLQLFIQYTDVRKYQFKIWRCIPLNISLPIEIANICVSSVIVVINFTHLY

>DpleGR19

EYLSDDLLDEGYLKLFAPFRFCQLFFGSCRIDARDRFVTAPTWGQKAYTVIILILAAALHVYVISYNISKLYEYQIIYNICVLFSTLNFIMYALNIIHVRFMNNENNVKFYIKTQKADRKLKISGNNPCNMVLYYINLCSVGFLIVLTLIVLSVVYIYSKELFASFAGLLFLQLTSLMEWIFCSNIIIYFCLRLRFINAIMRNHLKGLPNGREVNSKFFLPTRKSMRCVVANMHELNSSATDEYLKDIFDVISRFQELFRFQVLLFCFKFVLTALLVFEFILLAMQNNVGINLSIKKFILLPFQTVIDLMMIVVFCVRCEAFRIEIQDIKRLSTTLLSIYQEGPIREKARKMLKLINEKPPHISVYDMWNMDASTMLNMINVVTTLLVTLLQFALL

>DpleGR20

EYLSDDLFDEGHLKLFAPFRFCQLIFGSCRIDARDRFVTAPTWGQKAYTVIILILVAALQLYIICHYVSQLYEYPIVYHINVLFTALNSILYALNIIHLRFTNNERNVKFYIKTQKIDRKLKISDNNPCIIFLYNVNLCSVVFVIVMSLIVFFVVYIYNTELFVSFSGLFFCQLTSLIELMFCSNIIIYFYMRFRFINAIIRNHLKGLPYKKGRNTKFFIPTRSNMRYLVASLHDFSTSQIDDYLKDIFDAHLQFQELYRWQVLLFCFKFVSMAILAFEYLLLLKKHNVGPLRDKARKMIKLIDEKPHHISIYDMWNMDASTMLNMINVVTTLLVTLLQFALL

>DpleGR21

LKIRIFFGFYHNVFENSIILRLLLKVILIVFGAAILYTGTQSRSKEFSKLNHFIKALEYITYFVLTLTTENSYLLRYFRHDPIIDTKRSNQAYQQVVKFTLSFFLLTIVYYVALYSVVTYAKYVSNSGYVLEYISLIFFRLSSELGRIPVLMVLLLFYYRTKLFSSFVQEAALNTTSTFNLKRYIVMYSRNLDSLKETDGCVKPMVIFIYV

>DpleGR22

LKLRMCFGFYHNVFGSNLSILKYLLKIFLVIIGCVILYTGLSCKVFKYKKISHVFRGIEYVTYFTLTILTENKYLVRYYQTVVIGDTDYWKKIYIVIFKIILSYFFIMILFYVFHVSFVASIKIIECSQSFRDTVLLCVLVFANELGKLPVLMILLLLYYRIKLLCSTIRRNVLNTTSIVCVKKYINMYDRSLDELKKTDGYIKPMVIFNLI

>DpleGR23

SDRYENAKISKTLKYFLILLLTFFMLDFGYKFKYKKINIAIRYIIFVVSSLGAFMLLVVTILDLYTFNHVFSYLYLAQYLLNIYILLYCDQKNSLYDILENLYFIDFQVYFQNAYKIERVLFSAIFFSFITNISVNVLFCKYFSFQTTVGECSLISTLAIGLNFPLLLNFFLFYSIYCRLKKLRDVVQNNCLNIVSCQFLYKFLIDSTEKGKKVYDFLSIYSLVFYLLTLELIKKTRIFQTQILYDAILCFYVLQYMILIFLPAFFSTMLSKEARKLKLILLEILVNKRDSVYKKDIQRFVEYIKARPFQLYVLHFIPLDYKFPFFVMNIYLTYTITIAQFS

>DpleGR24

INIIMLARLFFGLYTKFSSNKLITFASKIFCICTILTVAYYNFKFYIGIREYDFSAIFLSAIILYIIYGLVSLLSDGENVYKYLYRLNKIGSVLIVELKIEKCVSYFYLYLFIGVIIGHSVKFIIFFMSSDTFKICHYILTSFLFIARSLSYFERVIMFEMTWNRMRSLRKTIRNNVDFSISEDEESNEIKKVQQYLLIYNKLLNNYRCIGKATKLMV

>DpleGR25

FLSKYENSRVSKNLKIFFLILRTVFLLDYGYKFESNNVNIAVKYFILVVSSLCAFLLVFAIVFELYRFSELYCYLYTIEYLLNIYILLLCDQKKSFYAFIEQLYIIDFELNLQKCNKTEIALACYITLILFIHTTLNGIYYYLQRPKMLVEFGVVCVLAVGIFFSLVLSFYMFYLVYWRLRKINEVVKNNCSNIALYQHLYKFLIDSTEKSKEVFDYLFLLIIFIQLPEMMIELYGTIIQSKDITSVTIWYDVYFCIFLARYLTLTLIPAFFASMLTSESYRLKLTLLEILLCERDSGNTKEIQRFIEYIEARPFQLYIFNIIPLDYKFPLIGINIYITYTIVIIQFSRTHL

>DpleGR26

RIQYSRPESTKISKTLKIFFIILLVCLMLDFGFKTKSSKTNKALKRYILLVSSLCALLLLIIIIFGLHKFTLFYCYLYLIQYLLNVFILLFCDRKKTLYATMESLSFIDCNINFQKTHKIELTLIIYVVFILLINILITTISFIFLDNIIWANSMVEAIVFFIIAFSLWFSLFLNFFLVYSVYCRLKTLRINVNSNYSNIVSFQYIYKFLIDSTERCQEIFNYLLIMILIVQMPEMMQLLYNIVKKLKFTLVDIMNDILACIYALQYMIVIFLPALFATMLTNEAHKLKIVLHDMLLDERGSVHTHDIKRFIDYVDARPFRLRICNLIPLDYKYPLIIINVYVTYTIVIAQFS

>DpleGR27

KITFIVIVMLFIKLFSICYKMVETKSTSMKFGVNDSYELIAIFNLLRYITDIFLVRKFRNFYLKYVSRYKTIDNKLGRTYYYRIKQSIRRTFIFFSVIGSTVFISDIIAWGLKDELTYEFVYFCDYFYDFCKLLSDLDFIGNCVQVKYRLKMIRNILFAHYHHFENLPEAFINFKYNEQCSCRNINVKHLNNFINENGKQKMPLKKCYLLLVDQCSAINTMCGFRIILSSLYYLADVTLSILFTIRLVSNTKLGNMETSYFTIISAVMQAVVDTLVVFYAIYICENSYREVEKIVCYIEYFLLNKKMDPRDRHSLQELKGLILTRPIRFHAAYFFKMEYPTVVTVASTIVMCIVLLLQN

>DpleGR28

CKNYLRITLLVTFNFFINALCTYYRFPHTKDIALDIFDLFYLEYFYNYIRFNIDIIFVIKNTKKYIEYFETYEVIDSGLGRTFYPEIKKRIQRIYIIIVFWFFASIIDITTWALVYGWVKQIKYIIDYLHNLVKLLSGFDFIANCFQVKFRLQAIGDLLKEWNSCVNNLTGPHTQLKYKHRPTNAFFRHLKLLDLRMKFKQINNSINNNCLVTSSINILFGYRIFLGCMSYIAEVVVMLNFTLRLFLGCLEVSATTSYLSLITTITRMTGNISIVLYGLHICEQNYRQTERILRLIDYLLIDNTMNQEVQESLKQLRELIITRPIDFHAAKLFRMEYPTFLSLASVFITSTIILLQNI

>DpleGR29

IEVFSTFYPLNRILQLVGLSCVFSIDKQLKCYTSTLKVTCILIILLVFNCLSFYYKFPNFTHVSSAALINNFYLFIIILDYFQYFINIYFVYKYGKESHLKYLNNYVFIDNILHTYYIHGRVKSSINKTCVFFLVLCSIISIADFITWFIIYNSASVSYILYYVYAFLQLFSSLDFIANCTQVLYRLQTIGDELQYRGRDISNLSVLYGETVDDVLIKKNQLKTNSSRAVAKPIHRQNIVNIVTGSYRCYLLLIDQSSYINKVFGFRVSVPKLKVNYPLMELLKRNIFVRHGTEYLPIITTSILCVFNFLVIFYMIHICEQNYRQNERIIDCIDRVPGDVQMDPVIRDSLKELRNIIITRKIIFHANHFYKLEYPMLVSISSLLVTYGVILIQSI

>DpleGR30

EIPIPKRNNFFKNEYKTVDQIKKLILFEMCFGLNRQYLFSENKCVLFLSRAYSVMLIILSIICIVFIDLNSRLFNVLKDISGFEYILLSFSALVLNKKKLKKFFVDLNLFDKILGVNEDISKLSVKYWTSIQLSNIILYHFINFIVIAHYKISSYSYSFIYLPFLIHDCEIIFYTNFLIFLLRRVNILKAHAAKIFVDDVAVYNDSNNISNRNTFSGNTNVNINSFYKAYNLLYKSSLNLNSIMGFPLIVILAKSGLATIILLKHLITRIEEDNEDPSIIVIMSIVITVRCFMYTLLITFPCYVSMVTKCEVFDLCTIINDFLNTKKSDKAVRRKIKALHQLSCTNEFTYVLCGVINLEMTLPLSYTSLCTTYLIIILQVSKFID

>DpleGR31

IKRIQPFIIFQIMLGINRIYLCDCKQSVNIISNIYSITLVSIIMLISLLNPIINTSHFVMNSFTTFEYSALALCAVIIMKKNFIKFFNKLQNFDKTLNIHANASFTTPISWFYCGIITISIFNFIQYYHFIIFTNLDINLFVVPLFLGDFIHDMEMLFICILFVFILKRLHILKERTIRLIGNKNINCHSKINHVRSHLKTTDLNISFLHKAYDHLYKCSRQLNFAIGFPVFVYFYFYIVIILLIITVLTFSIGRFMKQSFLLITLCYCTFITKCLVLAIRGTLYDYLNTDNLSKIERRKLKAFLQMTQDNDFSYTLWGVIPLNMSLPLKYYAVCLTYLIIVYQFSKFI

>DpleGR32

SWKCVYLLLSLLGQIFITTMCIHKVLNSNASLNVTTPVIFYTTTCITMVVFFRIAISWPDLVHHIEKVEQLDPNYDMTLKFKCNFTCAVVFILASVEHILSLLSAIAASTACDTEDLTYERFVKYFYPWVFNFLPYSLILGAMTQFVHFQSTFIWNFSDLFVICMSYYLTSRLQNVNNKLLFAQGKYLPEVFWKTIREDYGRAVQLVRRVDDVINGITFISFANNLFFICLQLFNTLESTNIFGGYEAAAYFVFSLIYLISRSVAVSLIASQVNTASNAPAPVLYDVPSPVYCVEVQRFLDQVNGDKVALSGLEFFSVTRGLLLTVAGTIVTYELVMFQFKDTPSGENIT

>DpleGR33

IILDTWFDIQVNIFFNSHLDSTDYIDRLPMVVTVVQSSFALVVFLCNSKNNIKIINSFAYTDCLLKLHNNRGFHEKVRKTNRVAICIFFLILISSIVQNYVESPSAIIYNVIEALIDFKFHLETLFLYLYLKMISKRIEVLNKYLNHFVEKKDKIKPIVISKENLEVNKLGDYIGRINHQNTKITSLAFAYETLGESLLLLNNMCSINIFLYLASNFIYIIISLWSFVHFIRTKDHLSSLPGIIFESSVEISVVIIMCYVCEELTMKRRSTRILVNEIVMDYKLPNEMRIQAKSFFDLIEVWPLQVYASRMFCMNIQLLLGFVSVSSTYLIFIIQ

>DpleGR34

LNFIENVESFLCIYRSYSAFSSLKRFVVSLRILIEVIVIITTMYLRPIVFGYGEIYQLFYFYFYSIFSLLIISLALYKSNEFVKLIKNLEESLTYFRKDDKYLKHVVVKYKIIMSLTILYTLVFFVLMILLFRFQLEYIIKEPKLAICLVVFILCEIRYVIEYIAIYGILLVISEQVKSINRNIIKSTRFLSSGQFCKSDDKMFRVNNIDFSECSRVYIKIKESSNSLNRAFGVQVSSIVIIIFIFLLLYIFADFFEFIAYTMNRVLMHMITLYLLVFGAHSAQSSVDELRRNISKILIHSSPSGDFLRLISNRSIKTVAFGGINIDMALIPTFVMLFTSYAVILLQYNHVV

>DpleGR35

IKIFFILIQLLLCLDFGFIEYKTPKRRFLYKFGACLLSLFYGIFVMMVVVYYVQDDFYFTWTMYFFIEYYLYVFILILIPQNRTFCYYLMELQQFDKKNCVETSSYKLEYKIIFYFIFSCLYDILMMFLYYVYCEDYVKLINLKLLFYVPYRTYHFPLMVYFFIYLSMFYRMGQLKIFLVNRKSSVFQVNQLYRFLIDSIENIMKPFRYIYIIRLTFNIPTILASIYLMLENLQQDGINIATIAPYLSLVQSTIFWAIPTIVATLLTQEAFKIKLILHNRISKEYGNHIVDRNEILAMERFSSYIDARPFKFYMFSLIPMDLTLLVIVLDTCISYLVITVQLTHL

>DpleGR36

KNNVRQYNITVIPKKNKLFFIFIQIFFGLDFGYIVYKSKKNKFLVKLTTFLVSVCYGIVIISMLFEIGDNFYLTWGFKFFFEYYLYIFILIFTSDDRTFYFYQIQLQQFDNKVGVPTSSFKLANKMMFYIFFLFSFNVLVIFLYYGYSDDYELQMYLQLLFFIPLLTYDIPIMILFFVYLSMFYRLERLKILIENRKFSVHSLLQHYRFLVDSIEKVMKSFTYIYLLSLLFNIPGVMASIYYLLETIQKTGDKSFALIVPYIPLLLIITNRAAPAVAATWLGQEPMEMKLILYKRIFEEKDKRQILTMERFLRYIDARPFKFYMLHLVPMDVTLLAIILESCVTYIIIMVQMTHI

>DpleGR37

FVSVMEAIFNKAKWFGIPTYGGNLAVFWTILMLATLSITEVAAVWKLARLLTKSAGRNVSATLSGSIFYGNALLSLMISWKFVKSWKSSTSYWIRIESRASFLLPNSSIRRKVNFVSLFVAISATVEHILSMISATGADCPPEDYFERYILTSHGFLIHDYEYSLWLAIPIFIMSKSATILWNFQDLIIILMSMGLSSRYHRLNNFVKEVVESENEVLAVKKVGIENICFHLRVDVWRRIRQAFVQQSALVRKVDTELGALILLSNLNNLYFICLQLFLGIRSIEGTLINRIYYFYSLGWLLLRASSVVLAAAEINLHSQKALPFLSSFPTYAYNIEIKRLISQLNNDQISLNGMGFFALKRQKLLEVAAAIIKYELILIQYDK

>DpleGR38

CNILLIKLAKRWNDLKMNLASIDLREYIDPSIKFKCSLATIVLASLTIFNIFIADMSKLAAILDCHHSGNTTIFEQYALRSYIWLFKFGIPYSLPLGILLVAIDLISSISYSFIQIFVICVSLYLSSIIQQFNRKIHTLDCKYVATSYWLKLRQDYNQVSRLVRSFDDVINGIVFVSFACNLYLVCLQVYFLLRSDITIRQGFHACPENTSSGFLNGYERIISNVYFVYSSTYYIIRTFVVSFTAAKVHTASMEIAPVLYNVPPPTYCIEVQRFIEQIHGSTIALSGLNFFYCTKEVILSMISTVITYELVLLQFN

>DpleGR39

ILRLNFFIKFQAFFGINRLYLLHYRNSAIIFSSIYSTTLVMTVVSILLFKMSTSTSHFIVANMIAIEYFCLYINALFIRKGTLLKFFNNLQIFDEALNIRQNSSATNPITWFIFAIVTVLIYNLSVFYFYVYRLGFLGDIIHDVEILFFCALVIFISRRLRILKSHALKLYYDDEHLGCDSATLSRNISLNISSIHKFYDLLHKCSRQLNAAFSFPIIIMMLSSAVIDIFLLKNTIILILLLALKKEVKVIIGYSLGRSLKDAILLIVLCYCAFITKNEILIIRNNLYDVIRTEKQDKVERRKLRAFLQMTYDNDFTYTLCGIIPINMSLPLKFYSICLAYLLIAYQFSQFIN

>DpleGR40

RYNIRSFYAFYYIITLLSQTYFAGYTIYWFFTSNLGLETMTNLLFHATGVLSNILLLNLARNWFKILRRAADIEKRAFMICPKTINVKKYDRITWSLMTLALLEHLLSVVYKYQGLKKWNKYSSSSYMVLLGKILFEVFDFTTLQCLQLSLYPFVILSQVVVLQTTFLWNFTDVMTICLSTYLTGFFQNFNNIIEENQKEKIVKWGDIRILHTHLVALVMLVDKNMCYLILLSFFTNLFFICAQFFYLMSKVQSIEDFVYYFYSFSFLLTRSCVTSFLAANIHTVSKRPLMIIQHLPSAEYDIEIQRLIRQIRYTTTALSGVFFHITRGMILQV

>DpleGR41

ERDQRNLLSSQDGDTCEIHDQFYRDHKLLLVLFRALAVMPITRSRPGTITFSWKSRATTYAIFFYIVTTIIVLVVGYERLMILRSIKKFDDYIYSVLFVAFLVPHFWIPFVGWGVAHQVAIYKTNWGKFQVRYYRVTGENLKFPNLKTSIVIISVGCLLLAVCFLLSLCALLDGFLLRHTTAYYHIITMINMNCALWYINCKGIKIASQSLSNCFSRDVSIECTASLISSYRFLWLNLSELLQSLGNAYARTYSTYCLFMFFNITIAVYGALSEIVDHGFRFSFKEMGLIVDAAYCSTLLFIFADCSHKSTLKVAAGVQDCLLSIDVLSVDRPTQKEIDHFIQAIEMNPAVVSLKGYAHVNRELLTSAISMIAIYLIVLLQFKISLPKE

>DpleGR42

YLSFYGTTCLSSVLILRLASNWHVLMKQVEAAELNGYVDPYVKFNCNFATFTLLWFALLEHILSNTAKFLTVLNCLSGNETVYEQFIFKSYSWIFESGLSYSVTLGFLLPVLNAIITLNWSYCQVFIICISLYLTSIIRQINKKILSFDGQAIFVHIYWRILRQDYNRATRLVGSFDNVSNSIVFASFASNLFFVCLQLYNILRNDISTRHGVPLCPNNNATGPYYKYEQMVTNAYFIYSSLFVVVRTFFVSIIAAEVHSVSLEVAPVLYNVPSPTYCLEVHRFVEQIHGNKVALTGLKFFYVTKELVLSMVGTIVTYELVLLQFT

>DpleGR43

IKIFFILIQILLSLDFGFIEYKTLKQKFLLKLMTFLVSLCLGIFIVKMLYNMGDYYYINWGLKFLLEYYLYILILIFTPEHRTFRFYQMKLQQFDSKIQVQTSSFKLDNKIMFCFMLLFSLDMITIFLYYAYSDDYELQMYLQYIFYIPLRSYNLPLIIFYFVYLSMLYRLKQLNVYIESRKSSVLSTLRLYMFLSDSMDNVMKSFRYIYFVCLLFNIPGMMGSTYLLIELIQTKSNELNIGMLIPYFSLFQEAIIRAAPTITATCMSQEAMKIKILLYDQILQERDSREIRIMERFAKYIDARPFKFYIFFIIPMDATLLVIVLDACISYLIIIIQMTHI

>DpleGR44

DVYGPEITDKDGELLDQHDSFYINTKSLLVLFQIMGVMPIMRVPKGAQTTKRTTYNWISKATLWAYLVWSLESVIVIKVGRERYYNFQQNTNKRFDEVIYNIIFLSILIPHFLLPIASWRHGPEVAIFKNMWTHYQLKYLKITGTPIVFPKLYSLTWGLCVFSWALSFAVILSQNYLQDDFELWQSFAYYHIIAMLDGFCSLWYINCNAFGTASKGLATNLHKALEAEHPALKLAQYRHLWVDLSHMMQQLGRAYSNMYGIYCMVIFFTTTISLYGSLSEILDHGFSYKEMGLFVIVGYCMTLLFIICNEAYHATRKVGLEFQVRLLNVNLGAIDRSTQREVEMFLVAIEKNPPIMNLDGFTNINRELFAANISFMSTYLIVLMQFKLTLVRQGTKKVFKSIVDAIFNITTT

>DpleGR45

FYSSTTMITILFLHIAMKWPNLCRYISCTEAIDPLNDYALVRKCNVACLLVLSFAFVEHGLLELSGFVFATDCSPPGKVYETIIVNSFPWFNNIVNYNLNLGIITQLLNIQCTFNWNFSNLFVINISLYLTSRLEQINNRISAIKGKAMPSTFWRNVREDYNRITSLVRKVDKVIGGVIFISFANNLFFICFQLLHTLAPEVRLKAYYNISSQYITFYISLSEYGYEQATYFLYSLIFLIVRSLALSLIAARVHTVSRQPVYTLYELPSADYGIEVQRFIDQIHGDTVALTGLQFFKVTRGIALAIAGTIVTYELVLMQFT

>DpleGR46

IMMTRLFFGFYGKFSNNKLITIATKIYCIGTISIVASSNIIFYIRFRDLHFGKMWLSYIILYITYGLLSVLSNGENIYKYYDSLNKIGTILLVDLKIEKYVSIIYFYLFIGVIIGHSIRLSMLIAHYGHSNMTEHLLSSFLLMSVSLTFFNRAIMFELLWNRMRTLRQTMENHVDFTFNEDERKHKLVISKVQEYLLIYNKLLRNTRHIGGSSKLIVNTMSCFI

>DpleGR47

RATCIAIMLFTFNVSSAYYLLPNLQNGILDFKFSDSVHLVLIIGFVQYLVDINFVYKYGRESYLHYINRYGIFDESMGIVLYEEVKRYINKLCTIFITIVVTASISEIIIWLVTYNSSTQTFFFLYYLYMFLNLLTELDFIANCTQVLYRLKSIDDKLQDFYSHLNNLPGVYKRTVQNYIIKSKTMTINVSAQSVSKLVHRQNVILLLNRCFLLLTDQCDYINSMFGLRILLSCVNFIVDTLVKITLVIKLFSIDLQEMISGPVYLPVVTTIVQIILYSLVTFFIIYICEQNYGQIERIVASIDRILHEKDVRPDIRDSLKDLRKTIITRNMNFNAVKFFKLEYPIIVSISSVLVTYGVILVQSI

>HarmGR1

MNKEEHGFRVYNTNTVHKNETRKREMFQRIDEKDGIKEYDAKDLYGPEITDKDGALLDAHDSFYITTKSLLVLFQIMGVMPIMRVPKNAQTTKRTTFNWISKATLWAYLVWSLECIIVVKVGRERLANFQSSANKRFDEVIYNIIFLSILIPHFLLPIASWRHGPQVAIFKNMWTHYQLKYLKITGTPIVFPNLYSLTWGLCVFSWGLSFAVILSQHYLQDDFELWHSFAYYHIIAMLDGFCSLWYINCNAFGTASRGLAMNLHKALEAEHPALKVAQYRHLWVDLSHMMQQLGRAYSNMYGIYCMVIFFTTTISLYGALSEILEHGLSYKEMGLFVIVGYCMTLLFIICNEAYHASRKVGLEFQVRLLNVNLGAVDRSTQREVEMFLVAISKNPPIMNLDGFTNINRELFTANVSFMSTYLIVLMQFKLTLLRQSARKTLKTIVRAVFNTTTTILDDDFTDDVDEE

>HarmGR2

MTIPDHLFDEGINNTLLQHDMRHVQQNRIVYEKTQREYEQEQRDMLSSQDGDTCEIHDQFYRDHKLLLVLFRALAVMPITRSRPGTITFSWRSTATMYAVCFYIAATAVVMIVGYERIMILRSIRRFDEYIYAILFVIFLVPHFWIPFVGWGVAHQVAIYKTNWGKFQVRYYRVTGENLKFPNLKTTIVMISVGCLLLAVCFLLSLCILMDGFLLRHTTAYYHIITMINMNCALWYINCKGIKIASQSLSECFRRDVEAECSAKLISRYRYLWLNLSELLQSLGNAYARTYSTYCLFMFANITIAVYGALSEIVDHGFGFSFKEMGLFVDAAYCSTLLFIFVDCSHNSTLTVAAGVQETLLSIDVLSVDRPTQKEIDHFIQAIEMNPAVVSLKGYAHVNRELLTSAISMIAIYLIVLLQFKISLPRDPQIVAT

>HarmGR3

MTVPIPNGFPVQINSKPKNKIIFLDVTPVSTPIKPHSPNVVAPMRNNLVAPHISNDIIYENIKPVFTLLRIMGVLPITRPSACVNQFQIASSSMLYAILVFLSLVSYVLYLSLHKVQILRTAEGKFEEAVIEYLFTVYLFPMIAVPLLWYETRKIANVLNGWVDFEMVYKQLSGRTLPVKLYKKALAMAVIIPILSTTTVIVTHVTMVHFKPMQLVPYVFLEILTYMLGGYWYLLCETLSICANILAEDFQNALRHIGPAGKVAEYRALWLRLSKLSRDTGIANCYTFTFVNLYLFLIITLSIYGLLSQISDGFGIKDIGLALTAFCSISLLFFICDEAHYASHNVRTNFQKKLLMVELSWMNTDAQTEVNMFLRATEMNPSQISLGGFFNVNRTLFKSLLATMVTYLVVLLQFQISIPDESQNRDEEEEVPYNITSATTEAMTTSTTTIMTTVLTTLAKKKKKN

>HarmGR4

MLNLCVSEIENKSVRNISSMREVLIDKIVKQKLDGLIGRLSGAIFYGNALISLFLSSKFVHSWRSLSNYWLRMETSTALDFPPDVRIRKRTIYITAFVVSVAVVEHILSMISATGVGFPPEEFLYRYVTLSHGFILKAQDYTIWKAIPIFVLSKLATALWNFQDLIIILISMGLSSRYNRLNLYVRHIVSVEKQFESKQRFGTELYLQIQVWRRLREAYVRQSTLVRMVDRNLGSLVLLSNINNLYFICLQIYLGIHKSSGSTISRCYFLFSLGWLIFRACSVVLAASDVHLHSQRALKSLHACPSAAYNVEIKRLQYQLAHDFVALTGMGFFSLRRELLLEVAAAILKYELVLIQYDK-

>HarmGR5

STELRTLMQNGWNNVISNISVGSVNTVNYLFRTWERLAPNRNMDLYSLEKFKKYKNDWNYPVHVRYQDQVMAEKEKPRTTFQTAMKVTLTIGQCFGLNPVQGIREKDASKLRFKLLSGRCLFTFFSLIGQFIMAFVLFLSLFKETSSTVDTATALIFYSFGFTTTILFFRIATNWPKLCMHIAKVESVDPNTDNKLGKKFNIACISILFLALMEHLFSELHGISIALDCFPDTPVYESFMKLSFQWLFGFIPYSDFAGGMAHFSNLQCTFNWNFADVFVICMSMYLTARLEQVNQRIIAAKDKNSPSSFWRTMREDYNRSVHLVRQVDKIIGGVVFMSFASNLFFVCSQLLHTLAGGIKASQRCKPEIGADRRFFYGYEHSIYFVFSFSFLVIRSLAVSLTASKVHAASLEPAYSLYDVSSANYCVEVERFLDQIHGDTVALSGLQFFHVKRGLVLTIAGTIVTYELVLMQFTGITPTTSPESVSGVIK-

>HarmGR6

DCSLTRKCNITCAVVLILALCEHILSLLSAFAGASACYSGMDTYEGFVTHFYPWVFSYLPYSIVLGVITQFLHFQSTFIWNFSDLFVICMSYYLTSRLEQVNRKLLAAQGKYLPEIFWRATREDYCRATQIVRKVDEVISGVVFISFANNLFFICLQLFNTLEDGLKGTGECTPKLKKIVVSKSGPLGGHEAAAYFLFSLVYLLSRSVAVSLIASQVNSASSVPAPVLYDVPSPVYCVEVQRFLDQVNGDKVALSGLQFFSVTRGLLLTVAGTIVTYELVMFQFNSSTPTLNITSP

>HarmGR7

AILSLVLSSRLYRSWGQLSALWARVERIMAVKAPPDKTLKRRMYFFLGFMTVCSLLEHIMSVVSAIGLDCPPALIIKRYVLISHGFMILRHEYSDWYALPLIFMSTLASLLWNFQDVLIVLISMGLTSRYSRLNQCLAKICALERKQMDSDKKNETTKVYAWRKLREAYVKQAMLVRKVDDAIGGIIILSCFCNFYFICLQLFLGITQSKASEPIKTAYYFMSLGWICFRVICVVLAASDINVHSRLGLKYIYTHDSHSYNIEMGRLQDQLSKDYVALSGKGFFYLSKSILLQMAGAIITYELMLIQFDDQGTDDV

>HarmGR8

YNWRTNIAGLWGKVERSVGVKIPVDKTLKCRMSFVAGLMTFCSFFEHALSILASVGFDCP

PSLILKRYVLVSHGFIFMGQDYSEWFAMPLVIISTIATLLWNFQDQLIVLISMGLTSRYR

RLNECLAKFCELEKQHMDSDKKVEAVKVYTWRKIREAYVKQAMLVRKIDVALGGIIILSC

SCNFYFICLQMFLGITQGMSTDFLTGLYYMVSLAWLCIRVLSVVLAASGVNTHSKLALNH

LYTYETHCYNVEVERLQDQLTKDYIALSGMGFFYLNKTILLQMAGAIITYELVLIQFDDQ

GSDGIALNA

>HarmGR9

MGVESAKVEEVTAAPVPSESGARPSRPTHCVVGGAHAFILRISSFFGLAPLRFESRSNGFTVSISGAMCVYSYILVTVLVICTIFGLVAEINVGVELSVRMSSRMSQVVSTCDVLVVVATAGAGVYGAPRRMRNMLKFMENIASVDTSIGGQYSLVTERKLCGIILAILIFFSILIADDFTFYALQAKKLDREWDVVTNYLGFYLLWFVVLILELQFAFTALSVRARFSAVNDALALTARQVSIPVEKPKSSSPLNIYAIRVAPVDSQRSANVSLLVDTMTGREHVVIIKRTASGEPRLVVSPCDAVRRLAALHGTLCDVVNSIDDSYGLPLVVILISTLLHLIVTPYFLIMEIIVSTNRIHFLVLQFLWCVTHMLRMIVVVEPGHYTIAEGKRTEGLVCRLMTSAPSTGVLPSRLEIFSRQLMLQSVSYAPMGMCTLHRPLIASVIGAVTTYLVILIQFQRYDN

>HarmGRx

ISSFTDLGAWVITYGWMIPVVHSLSYLYLLIKILATLDLIANIIQVEVRLRIINNFIKNC

YKCASACPVGILADCIRNKNWLHGEDGSPDQSLKARSIDSHEIKRLSKCYLLLTEQVMFI

NKMYGFRILLNTTSLLFDMVKILNLAIRIIVGSQRTLYNSAGYNFLPGVSGFVRFLTCAA

ILITLVNRCEQAYRQRERILNVIDHLLINK

>BmorGR1

DIYGPEITDKDDGALLDKHDSFYLNTKSLLVLFQIMGVMPIMRVPKSAQTTRRTTYNWISKATLWAYLVWGLECIIVVKVGQERLANFQIGSNKRFDEVIYNIIFLSILIPHFLLPIASWRHGPQVAIFKNMWTHYQLKYLKITGKPIVFPNLYILTWGLCIFSWVLSFAVVLSQHYLQDDFELWHSFAYYHIIAMLDGFCSLWYINCNAFGTASRGLAINLHKALEAEHPALKLAQYRHLWVDLSHMMQQLGRAYSNMYGIYCMVIFFTTTISLYGALSEILEHGLSYKEMGLFVIVAYCMTLLFIICNEAYHASRKVGHEFQDRLLNVNLGAIDRSTQREVEMFLVAIAKNPPIMNLDGFTNINRELFTANISFMSTYLIVLMQFKLTLLRQGARKTVTAIVRAIFNTTITDNGAGGSDEDQE

>BmorGR2

KEQEQRDLLSSQDGDTCEIHDQFYRDHKLLLVLFRALAVMPITRSRPGTITFSWKSTATIYAVCFYIAATAVVLIVGYERIQILQSIKRFDDYIYAILFIVFLVPHFWIPFVGWGVAHQVAIYKTNWGKFQVRYYRVTGENLKFPNLKTLIVIISVGCLLLAVCFLLSLCALLDGFLLKHTSAYYHIITMINMNCALWYINCKAIKIASQSLSECFQRDVDIECSAQLIARYRYLWLNLSELLQSLGNAYARTYSTYCLFMFANITIAVYGALSEIVDHGFGFTFKEVGLFVDAAYCSTLLFVFADCSHKSTLKVAAGVQDTLLSIDVLAVDRPTQKEIDHFIQAIEMNPAFVSLKGYAHVNRELLTSAISMITIYLIVLLQFKISLPKEPHGTGQ

>BmorGR3

MSFEIKNNFFRTSVPIPNGFPVQTEAKSKNKPIFLDVSPAPTPKVNSPNAIIPMKNNLIDPFINKDIIYENIKPVFMVLRIMGVLPLTRTTSGVNEFHFISPAMVYSLTVFIILVSYISYLSLHKVQIVRNSEGKFEEAVIEYLFTVYLFPLTVVPILWYETRKIANVLNGWVQFEVTYKQLSNRILPVKLYKKSLLIAIIIPILSTTSVIVTHVTMVHFKTSQIIPYVFLEILTYMLGGYWYLLCEILSLCANVLADDFQQALRHVGPAGKVAKYRALWLRLSKLARNTGVANCYTFTFVNLYLFLIITLSIYGLLSKISEGFGTKDIGLALTALCSVFLLFFICDEAHYASHNVRTNFQKKLLMVELSWMNTDAQTEVNMFLRATEMNPSQISLGGFFDVNRTLFKSLLATMVTYLVVLLQFQISIPDATQPEIPTNIDDHVQNITDTTTEASSPISTLMSAFAKRKND

>BmorGR4

MDKDKFQEFLPTMSRIFSMTRYFGVSTCKPSIAFGWTVILLLMLLAIEVGAIWKIVRLLGGWAVHSTDSRGFTARLSGCIFYGNALLSLILSIKFVSSWEQLSERWSRTETDPGLRLPSDSRIKRRTVLVSAFVMTCACVEHMLSMMSATGFDCPPEEYTERYILSSHGFLVQNDEYNLWLAIPIFIMSKLATALWNFQDLIIILISMGFTSRYNRLNTYVHRVVMLERNLKEGAQVSSENYMRFQIWRRIRQAYVRQAALVRLVDDQLGALVLLSNVNNLYFICLQLFLGINSKDRGSF

INRLYYFISLGWLMFRACGVVLAAADVYIHSKKALISLYLCPELAYNLEIKRLKYQLKNDEVALTGMGLFSLNRELLLEVAAAVLKYELVLVQYDK

>BmorGR5

YFAFYLSTGCNTFIFLRVASKWPTLIKHVYETQLDSYIDVKVKNKCFAAYIIFFSMSMTEHMLSLLSKFVITMDCLPKGSDLFESYIIRNFPWLFEFDVPYYLPIGVILQFLTLVSTINWSYSDLFIVCMSIYLTSILKQINKKIEMAGNSNHLPIPFWRTLREDYTRATRLVRSFDDTISSVIFLSFASNLFFICLQLYNILSNGVTSKYNLLKEMCPNYPSGPLGGYEQIMYLLFSLSFLLGRSLVVSLVAAKVHSASMVPASALYNIPRNMYCSEIQRFLDQVHGDKVALSGLRFFYVTRSLVLSVAGTIVTYELVLLQFSNED

>BmorGR6

MLLRNYKQNLSFWTSAKKSKIHKIQSQETVTFQGSLKLVLFIGQLFSLFPVCGLLSNDANKVXFVPISWKCGYSMLSMIGQLFIIVMCILYVAHFETTLNGTTPIIFYGVTFISMIAFIRASRRWPELIQHISKSEELDPSFDFRLKKKCNITLLLVLVLAILEHIFSIRSAYSASQICYPHTGFYEGFVRYLYPWVFDFLPYSEELGMVTQFLNIQSHFIWNFTDLFVICMSYYLTSRLDLVNKKLLPAQGKYLPEIFWRTTRETYCRATKLVRKVDEIINGILFISFANNLFFVCVQLFNTFDDSVDMVGLCYNYSERRTKPVGREPVIYLLFSLGFLISRSITVSLIASQVNLASTVPAPILYDVPSAVYCVEVQRFLEQVNGDNVALTGLQFFSVTRGLLLSVAGTIVTYELVMVQFNQAPASDSFTEKLVENNISTIETFYNYS

>BmorGR7

MVLEAHTQIQYCTAKANYCEFHAGLRHLMRLARWAGFFPVQGLSQTNPDDVRFEFRSLYALYHAITVIGQTVMTFLAFYSFVDSNVSLSVVSNFLFYFTNYVTLVLLWRLSKNWSALISKTLEFEQSVTEIRTTRNLVSRTNTLTYVVLIFAMVEHALSKVFNIRSVMCCLGETSLNHTVINNYFKFKWKFVFDYFSTSTTYSYFVGFIAEFLCMQATFLWSFTDVLIMCFSIYLSSFFEDFNSTVSSFMKKASKTVPWSTLRVQYSQIVLIVKQMDEQLDYFVLISYFTNLFFICFQLYNSLNRIYDANDVCNENMDIIATASVTYLTYYVFSFLFLVTRALLLSIMAANVHSCAQVPQLALYEVPTADYSLDVQRFQLQLRYTTVGLSGVCFNVTRGMILRVIGTIVTYELVLIQLTKKNLDNDTSIRDYYLPKHLI

>BmorGR8

MAPRSVRSMVGTSKKDMLKGGFYETVRIPLYIYRLIGILPISGLWHRSSKYNRFSLKSFYTIIYAPTIVMQTFLLLVHIYDLFAFFFGHQRLGRLIYHMNFYTITILIFMGSRKWKNVIKEIETIELTLPRLRNSKKALALTKSFVFAFFVFSLAEVVLILQFTLRLTKQRHVLPGDSGLYLRSYFVYIFPYLYDHFPFSYVMGFIVQIIKVQGIITLNMVNCSVVILSIYLTNRLKHYNRIVFAKGSKTNNTRLKWVELNLLYTRISNLVKIIDKNLNPFVFISFTANLSYICAQLFYILNKLTSSRTVKITSFLEDKRCDWETVLYISISFALVVLKVLLVSIIAAEVHTTSREPLRLLYTLPTAEYTIETQRLMTQVYYSNLSLSGLNFFHITRGMLLGMVATLLTYEIVLLQI

>BmorGR9

MPPSPDLRADEPKTPCLVGGAHAFILKISSFCGLAPLRFEPRSQEYAVTISKGKCFYSYILVTFLVICTIYGLVAEIGVGVEKSVRMSSRMSQVVSACDILVVAVTAGVGVYGAPARMRTMLSYMENIVAVDRELGRHHSAATERKLCALLLLILLSFTILLVDDFCFYAMQAGKTGRQWEIVTNYAGFYFLWYIVMVLELQFAFTALSLRARLKLFNEALNVTASQVCKPVKKPKNSQLSVYATSVRPVSCKRENVIVETIRVRDKDDAFVMMKTADGVPCLQVPPCEAVGRLSRMRCTLCEVTRHIADGYGLPLVIILMSTLLHLIVTPYFLIMEIIVSTHRLHFLVLQFLWCTTHLIRMLVVVEPCHYTIREGKRTEDILCRLMTLAPHGGVLSSRLEVLSRLLMLQNISYSPLGMCTLDRPLMVTVLGAVTTYLVILIQFQRYDS

>BmorGR10

MTMSIKPRLQCMVPPSLALALRVSRLAGIAPLKFVAKQSNIMIRLSTSLCVYSYLLVTALNVCTLIAVMIDFSVPVKLSIRMQTETKRFVWIADVVIVGMLSGVGVYTAPIQMRRLIAYLHRIHKINSDLQTYSSSLTDKMLHRLTIGMLLITSVIIVTDFTFVMYLADLNHRQLLIAIMYWCYYCSYFIAHLLEMQFVLIAALALSSLKLVNNGLRTMLHQSGIESLTEIPNSNEQHAANAVLPQPPKKSVNNSIDTLAFVVTKRSVRFPTAGWTDQRTIRRLALSYGSICEVVRQIDNNNGIIVLLLLASFLLHLVVTPYYLIISFVTESPHTGFEKVLNPILQTVWCLYHTFGLVMIIEPCHRTHEEMETTRELVSRVMCSADPRDPISVELEMFFRQLVLNKASYAPLKVCTLTRSLVATILGSITTYLIVIVQLEIKNMQ

>BmorGR11

MKPFRFFLFVENVICVYRNYSFHKRYARAIILSRVMFEVSLIILTLHSCRNFGAVKYKTEIIFTYLATASSTILILLALYKTNRFTELFLNFKAFYRNRNLDVDHLEKWNRKQKMATVIIVLFCVIKFSTLIYTDLIGEYSTPCRGYFTEYLFYTNLFMCNARYLFEFSTACVVLHLVSEQLDYIAISMDCTMFLYIDISKKNIMSSAKKRKLKYFDIFKQFEKWTDAYMNVKRSANLCDTVFRAQLAIMITTITLYYIILLYGITSFNIERGKFSVVKSLSYLISLFGFLIALLLLSKAGQRIQKSAENLRRKLSKFLLHSLEDPEFHRAATNLLRLVCTHHIKMRCFGFIDIDMTLLPSCLMFVTSYTVIALQFNNVV

>BmorGR12

MKNLKLCRTTFYFKIIMCSRFISGLYFTATSKKWISYLYKVICVLYIICITRLFYAKEDTFKPLVFXQFIGNSIESLRTGEGHVLKCYSTIFSLKLIRNYLPDSNNHIPISSITNFLVIIWKVFDQVYIVLMHYFYTTDIIIHLRILSILTTIGVNLSLMPIIVIFELMWRAVKALRKSLGEHLKGPVLIEGRERLKAQQILRCLNVYKDLNATLKFNSTPMKTMILISTLATFIRLTLFLYQAILGHNEGLHLPRKILAIIYYALPVCLLGVLMELVARECDKLKTLMTKELLVCKDDSYCTVIVDAVSYIELNPLKFSILRAFNVNSTLILGLTNLCTTYLIAVIQFTYSCEDINGLSHSHSH

>BmorGR13

MEDSFNRLLSIRNMIIFQNVCGFYHMCTEKLYISRIIKMYCVALAIVLSVFCFQNPDITYLSWDVVWVTFGYTLNVIICLRYNGNYFFQYWNGLHEIDIKMNLTSIDKEKVPISRAVFTVFLILRSTAFAMTIFVFGYLETGILSNTIISIYSINLTEFYRNMSNIPMILMFETFYVRIKILKEQLCSELSTVLGCNNDARQLKLILKYLRNYRSLVRHLMDTTLPFKILILVILVGSFLRSLLIGYAFVYNSDQIILLSLPVMFSTKILSEVVEIKLICTKELLKNKNEGLVLLDLDSKKPTFLTSKACGEQLQDALSFLNNRSYSYTLLQVIEFDCSLAFVFTSFCITHLIVVVQFTHVLD

>BmGR14

MNLHKNIIPIRNNLFANKVTAIALPKTLSVLFKLIHIFFLLDLGVYEYKTFKIKCIVKFLTISGSLTISVVCFSFMVSNLSEHTFVGWYGFFISTYIFVVLFFNLSNRMTFVEFYKTLLRFDANYGIDSNEYKFNFKIIFVNILFIANRMVLSFVYCSYYPQNCIRPRYAQILFMLPWLTLDVLLTTNMFLFYATYCRIAKFPMLIKNSMNIVALRNSYKLIVDSLEKTQTSFDIVFIIALVFSVPEIMMSIYSTLLEVISKHFLEVASILSLNYVAIAQSLLLTLAPSLCAGVLPWKTNNIKIILHEKLFTEKDKASAREIELFIKYIESRPLKLRACNLVPLDFSLTIIVLNICVTYLIVIIQFTHLY

>BmorGR15

MISSSDINHKRNKVFAYNVPGIALSKTLTVLFKLLHYVLLLDVGIYEYKTFKNKCIVKFLTIATGVSVSIVYFCLIATVLRKNAFFYWFYVLFISQYMIIVFIFTLSNGMSFTDYYKMLLRFDAKYQINSNNYYFNIKIILVIIISILNRIGMAIIYCSYYTKNCYEMSFSQIIFVLPWLTRDVILIMNVFLFYVTYCRITKFPALLENTKNVGSLRNSYKLIVDSLEKTQKPFDFVFTISLVFNIPEIMLSIYFTLLQVIHSHFLEVAPTLSISYFSITHSVVLILAPSLCAGVLPWKTNTIKIVLHDKLFLEKDKNSARNIKLFIKYIEARPLKLRACNLVPLDFSLPVIVLNLCVTYLIVIVQFSHLS

>BmorGR16

MIMNLTTDRISKRNKVFAYNVPEVTLPTTLKVLFKLIQFTLSLDFGVYKYKTFKMKCVAKVLTLAGCLAASAACVSLIISNIFENQLFFGWYTLFVCQYTIVIFMFTFSNGMTFIDYKMMLLRFDAKYQIDSNVYHFNIKIVLVVVISVTSRLFLCAVYCIYSTENCIKPWYNQLLFFPWLSLDIVLIMNMFLFYATYCRLAKFPSLFENPKNVVPLRNSYKLIVDSLEKTKKSFDAVLIAALIFNIPEIMMSIYYTLFQVMNKHFQEVAPVLSLSYFTIILSVLLILAPSLCAGVLPWKTRHMRLILLEKLFAEKDKNSAREIELFIKYIEARPLQLRACNLVPLDFNLPVIVLNLCITYLIVIIQFTHLF

>BmorGR17

MGFSLGTTALSMFFFEKPVVFTIIQITMIIVKPAKYKLSDPFRPKDTSKLSESIIMYFKLFHIFLGIDLGGFRYQNRQVKYAVRLISLIQPLAIYGLCIYALLKIIANTEFLWYTISFTEYVAMSVAITLFSNEMTYCNFMINLKFIDTKLKIGDESFRIGVKLISSTILIGVTRCFTTTTYCLLGFCAKPTAAQILFQIPWLTIDLMLLQYMFIFYACYCRLVKILRILKKRNTDIEEMRRIYKTLVDVLDRARAPFDLAYLLGLLFSIPDVLYSIYESIIKVGEINTAKALSMSIIYITNIQSLALMFAPALTAGFLPSLTMKMRIILHDKLLEEQDKKTYRHIVLFIKYIETCPLKLKACQIIPLDFSFPIIILNIVVTYLIVAIQLTHFL

>BmorGR18

MRRSTKVISMVNQSDKGEIKTCSRFMKIYFFVIYILTGFNFGFYTGRGLNFLRVIQASVLLLRFIIASNCIYIAFHFRLLEAIWYSLTFSESLAIVVCFMLSRSALSCKNLFEYLYSVDQELKKSVGPSIEVKLALYTVVVSVLRLTVYVFCAIAYYETLHEGFCVELVYNTPCYCSDLYLVIHFTIFHSVYCRLKALRISMNEKFDVYKGTLIYKSLIDNLEEIKKSLDVPFFVILLNAVAIAMINILVTLEISYGQTMKFIRTAPRYLETVLLFSSAFAPVLAADMMASEAQKIKVTLNNILQRDDSLLEDDRRKVKQFAGYVSARPFRLRACRVLSLDCTLPVTVLSICVTYLIVVVQFTHLY

>BmorGR19

MRRSTKVISLVNQSDKGEIKTCSRFMKIYFFVIYILTGFNFGFYTGCGLNFLRVIQASVLLLRLSVASYSMYIARYSPLLEVIWCCLTASENLAVVVCFMLSRSALSCKNLFEYLYSVDQELKKSVGPSIEVKLALYTVVVSVLRLIIYVFCATAYYRKLFDGLRLELLYHTPCYSLDLYLVVHFTIFHSVYCRLKALRISLNEKFDVYKGTLIYKSLIDNLEEIKKSLDVPLFVILLNAVAIAMINILVTLHISYGKTMKLITAAPRYLETVLLFSAAFAPVLAADMMASEAQKIKVTLNNILQRDDSLLEDDRRKVKQFAGYVSARPFRLRACRVLSLDCTLPVTVLSICVTYLIVVVQFMHLY

>BmorGR20

MRRSTKVISLVKQSDKGEIKTCSRFMKIYFFVIYILTGFNFGFYTGCGLNFLRVIQASVLLLRSIIASYSIYVAIHFRVLEAIWYCLTFSESLMVVVCFMLSRSALSCKSLFEYLYSVDQELKKSVGPSIEVKLVLYTVVVSVLRLTVYVFCAIAYYESLHEGFSVELIYNTPCYCSDLYLVVHFTIFHSVYCRLKALRISMNEKFDVYKGTLIYKSLIDNLEEIKKSLDVPFFVILLNAVAIAMINILVTLEISYGQTMKFIRTASRYLETVLLFSSAFAPVLAADMMASEAQKIKVTLNNILQTDDSLLEDDRRKVKQFAGYVSARPFRLRACRVLSLDCTLPVTVLSICVTYLIVVVQFMHLY

>BmorGR21

MAHRTNSINLFRSRPPDIRAGVGEPRIFSKFICGTMFTQKSLVNFDLGKTPRGGDQEHSKFFKIYFLAVHSVTALDFGFDRNAKKLTKILISMFSISVRMGLAAVSFMSLWGRPNALALGWAPGTLLCENILVAVTYSASRSTFKCGDLFADLSTIDELFGSACDYRIESKMLLFTATMTVLRVVIYSTSRLVRADGFDFVDVLEVLNNLETMCMYLFLTVYFFVLFSIYCRFKKLRELMKNDFEIRRANLIYIALKDCTDKIKQSLDVPFLVVLVFTVLVVMVDVFITLEMIISNKYNMAVYVVRYLEITLDFLMLFAPVLLADMMAVQVDGLKITLHDRLCLNNGVDMKRYSSLAEFIGYVEARGCRLRACRVVPLDLTLPVTVFNVCVTYLIVMIQFADLY

>BmorGR22

MTRFEFSQRTKTKSVSKTLNILFNCIYVLTCMDFGFSLGVYKRMKVLENISLVLRVMVAIMCAAMVMKQDILDSAWADITLTESLLVIVSFKLSKPKLSYRELLENLSIVDETQGAPPAGYKVERKLITYIAGVTALRLTVLCLYCVAHTEQYSIDNFIEFLYNVPCYCLDLYLIVHFIIFHSIYCRLRTLRKALSNNFDVYRAHLIYKTLIDCTEEIKKCLDIPLVVILIATILVVMVNVLVTLRMLFKGESIISAFLLRYIEVILSLALLFVPVLVADMMALEAHKIHIFLHGRMQTANDAAEERREVRQFAHYVGTRPFRLRACHVLALDSSLPITVVSVCVTYLIVIVQFTHLY

>BmorGR23

MAQFQIPSMAGSGLNVAPFSRGRRHEGPKHSNFTKKYFLLVHLVTCLDFGFHRDNDTKTYKWFHAANIGVRLVLSAYVCSVSLSQDLSFASAAWTILNNSKHLLVVAIFTIFKPKSSCAEILKDLLMIDEALKIHRGCDVKGQITVCIVLVTAARLLIAAASSLSLHEAFSASVGAAEVLYSFQSYCLDFYILANFFIFYSVYCRLKNLRRVLQNNFNIYRGNMIYKVLVEHMDDIKKFLDIPFVTSLLVTVIMAMINVLKTLQLIHDGENDVLTIVLRYLEMFLSFSLIFAPVILSDLMSIEADNINVVLHNYIYETDAAEERERRHLSQFAWYVSARPFRLRACRVLSLDCTLPVTVLSICVTYLIVVVQFTHLY

>BmorGR24

MCINKKIQSIIKSLVSIRTIMLVQSILGFYHKMSNNFFVSFLFLTYTTILISVLSFYSVNDVMAHKFAYTLSMILEYDINTILSLITAGRQYFNFFEEMKKIDFSIGFGELNIEDLPLSRTLFVTIFVTNILLSIMTAALILFFSTPFLIISSGSTYAMAIVFFGLSLNVLPRIIIFELIYKRIKYINLSLKRKLKALALECDHTIARFEIINENLIIYNKLLQSLGNVNVSLKSSILLTTFTCFFRCSLICYYVITMNEDKVYIMQIIELTKQTLFLGVLIILAEYIKNEIENLKMTVSLQLFTCTDTQLYHQVSDXFEIHRITPIQLCGFKNMSVDTNLFLGLINVCSTYLIIITQFLNAYVN

>BmorGR25

MFVKCLKYVKKFKPMFSVMFIMNFRLICGLYYRIHSDAFVCFVFKVYCILCSMFLFFTSSDLAAPFSRSIPILATLFEYVANVLDCILTGQSYFFHLRMELMRIDPRLRGLDRPPASSIVFTAILSYKIFILAVYIHGKARTTYLQYEWFSSIGIHLLVLFSNLVHMNRMLIFEMVTFSLEAQKKTLGELLKSSLRRERVERKCEILNRFLKTYKRIIELFNNTMAATKLMTLISVVSCFIRILTYLYQVLTTQLSSSSAGSIFTTRHLTFIVTFVREHVLSVYFLKKVGICQRLQINFKIKCNVKTETLELISQDDEYTEKLEDALDFINSCSSKITILRAMTVDATLPLTFISLCTTYIIVVIQFSHIYD

>BmorGR26

MNKTKIYRKKLDKNERLVCSVQPAMFARLIVGLYYDIKVSNRVKWMIKSYCISLSSFICYLIIFRDDNFSLHPKLTSVMEYITYVTFSFLTCDKYLFRYLRFNPRTDGYPIFLYLCKKFEKFFKIIICLFVSFKILGVVLMMQSWPILSTPKYIWGTLALHFLWLASHMGRLVFILVYGILFCRMRTIRIIFENRGFQNTPQNRLTPKRYILMYEAVLNSIESVDFPVKFLIFTFICCFAPKLVVSLFEIMEEMKKGELSLTTFIWFLVELSPSYLFLLLSAIALDLVSEDVQELLSITIDRRLNCKNEKERSEIQEFFQYLRNNPFNYTLWQVVSLNLRTLLVATSFSIANVIAIMQIKNSKI

>BmorGR27

MVFKYKIMTKAPKSLPVLKILMLFRLVFGNYFRLSSNRYINFLVKSYCSTFTILLSVMCGKRLKNDSPYMLSLTEYILNKILNYATSEGYIFKYCNSIKTCDKIMGFKKLPIITIDVFIAIIITVITRTAITIYFGFLFPFDKYQVVLYVGCIVFSNDLNSLTIMNVFGLLNNRMNLLRKSLEAMTVPINIIGKNEVAPKVRLVRNAFRYYSNLLDNLDSVNHCVQYSLSVTLLLKFPKAVLLCYDSIKTYFVKIDNNFAMDIVDPTEIILSIVVMSFPAMLCEMITNEVEKIKAILTKHLIQCSDNSLRFELNITLLYICHRPFKYILWRAIPLDTSVPIGIVSLIITYVIVLIQLLHFST

>BmorGR28

MAHKIATVGPTNATATVKNNKRKLKISKRVTIFKVVRCLRFILGHYTELTSSKLKAFLIKCCSLLLAVIIIYAPLNYIKMAYVMGLIEYLLFVLLSLFTGDEYFYKFHNSIKSIDVLMGYKRGKIIDSNAIIFLLSVITIMRIVIIYCRSTVLAFRFTIIGVYLAIFSLRISYMLITVIFFAMYHRMKFLRKKFEIITIPVTIIGKQKVASKIRLIRKYLINYHHLLDCLRDINGGLQYFLAIMIACNLPKYIFFAYSAIKIQVLEHITIHSAVQNVKCZRILFVVVPAIFAELTTAEVERIIDVINRQLLRCTDEHMELELKVALEFIRRRPFDYVIWRTVPLNASLPIAIISLCITYVVIVIQLTQFHDNF

>BmorGR29

MYLRSKKSRFKLFSFERMIKILLMICGHYVQTDSSNVVSSIHRIFSIVITICLCPYFQFNPFFFHVIESVWYSILSQFTQYGFFFRYCSTIKTFDLLSGFKQIPLYTKRVCFFLLITLLVRLIIVLIHFSAHQTKLKTFCAFLIILSANTGHILMTIMFSILNTRMTLIQKLFANNPIPVNIVGKNQNASHIKRVRKGLICYNNLLDTLKVAEKEIQFTLTVTYLCHVPTIICYVYFVITVIYKSKFSGYNLIPMLDMILACMAVTAPALFAELTKNTVDKIKKILGSQLLRCSDESLRYELEITLEYVIQRPFSFSIWRAVSLDASLPVAMTSLCITYVIVILQLTQLRP

>BmGR30

MYLRSKKSRFKLFSFERMIKILLMICGHYVQTDSSNVVSSIHRIFSIVITICLCPYFQFNPFFFHVIESVLYSILSQFTQYGFFFRYCSTIKTFDLLSGFKQIPLYTKRVCFFLLITLLVRLIIVLIHFSAHQTKLKTFCAFLIILSANTGHILMTIMFSILNTRMTLIQKLFANNPIPVNIVGKNQNASHIKRVRKGLICYNNLLDTLKVAEKEIQFTLTVTYLCHVPKIICYVYFVITVIYKSKFSGYNLVPLFDMILACMAVTAPAVFAELTKNTVDKIKKILGSQLLRCSDESLRYELEITLEYVIQRPFSFSIWRAVSLDASLPVAMTSLCITYVIVILQLTQLRP

>BmorGR31

MYLRSKKSRFKLFSFERMIKILLMICGHYVQTDSSNVVSSIHRLFSIAITICLCPNFEFNPFYFHVIESVLYSILSQFTQYGFFFRFCSTIKTFDLLSGFKQIPLYTKRVCFFLLITLFMRLFTVLIHFLAYQSKFVTFCAFIIMLSANTGHILMTIMFSTLHTRMKSIQKLFANNPIPVNIVGKNENASHIKRVRKGLICYNNLLDTLKDAEKEIQFTLTVTCLCHVPKIICYVYFVITVIYKSESLRYELEITLEYVIQRPFSFSIWRAVSLDASLPVAMTSLCITYVIVILQLTQFRP

>BmorGR32

MCYTNFVSRQVSKCINFFSTIRYVIYLRMFCGLYYNCSSSFKIRCIARLYCFIIYCLNLHYNLYIFTSSVSLTNFLHTFITLAEVSIHILFSLYTGESNFMSFCIEMNKLTSGPIDFVATKCVATHFIAFFVIGLHILSSTLICGAEVSCFTFSVVLASMTFLTTLLSRFTTIIMFDLVWIRMRSLRKILVNALESDLSEDEKVKSIESFLKAYKQIIASIRITKLATRNLVTFNFVSLFGKIMTLIYFCINCPGYLNTYLISSWIFGILLAGFVTCAPPVLVEMNVNELDEIKYALADQLVDYTDDNYRTAIYNALDYVEVHSIRYTLWKNFPMDLTMFFGFAGFCATYIIGLLQFTY

>BmorGR33

MCYTNFVSRQVSKCIHFFSTIRYIIYLRMFCGLYYNCSSSFKIRCIARLYCFIIYCLNLHYNSYIFTTNVSLTNFFHTFIILAEVSVHILFSLYTGESNFISFCIEMNKLTSDPNEFIATKCVTTHFIAYLVIVSHILSSTLICGARASCFTFSVILTSMTFLTTLLSRFTTIIMFDVVWIRMRSLRKILVNALESDLAENEKAKSIESFLNAYKQIIASTRITKLATRNLVIFNFVSMFGRIMTLIYFCINNPGYLDTYHMSLWIFGILLAGFVTCAPPVLVEMNVNELDEIKYALADQLVDYTDDNYRTAIYNALDYVEVHSIRYTLWKNFPMDLTMFFGFAGFCATYIIGLLQFTY

>BmorGR34

MCYTNFVSRQVSKCIHFFSTIRYVIYLRMFCGLYYDCSSSFKIRCIARLYCFIIYCLNLHYNLYIFTSGVSLTNFFYSFITFAEVSIHILLPLYTGESSFMSFCIEMNKLTSGPNEFIATKCVATHFIALLVIVSHILSSTLMCGARASCFTFSVILASMMFLTTLLSRFTTIIMFDVVWIRMRSLRKILVNALESDLAEDEKAKSIENFLNAYKKVIASIRITKLATRNLVTFNFVFMFGKIMTLIYFCINNPGYLNTYLISSWIFGILLAGFVTCAPPVLVEMNVNELDEIKYALADQLVDYTDDNYRTAIYNALDYVEVHSIRYTLWKNFPMDLTMFFGFAGFCATYIIGLLQFTY

>BmorGR35

MYSSLKLKDYIVNMESVMCSDQSITISFKNVFKVFFDYISSLDFMMVCRLCFGYYYEFNCSNLCKIMFKCFSISVCIFCVSMHLVQLISPPYLNHCVIMLESTVSIITSLVTEDKYFFEFCLDMKDINSMMNQPRNIKSFKIIYVIISGAICHVIRHISICREKALSFCFSTEYLTASFTIISGYWNYLNITMMFDLLYQRLVAVKQMLTNGLNICDTDEYKIKSVQKFIDVYKALTVSLSKTSNLIKHTVSLGIFCALWRIIFFVYYCISMDFQVESAQFITWVSSMCLSVFLVYIPALIVELCSNEVDAIKWILASELLEYRDKRLRTSLRDALDYIDVCPIDFEIWHCFPMNLSLCLGFIDISSSYIISILQFKY

>BmorGR36

MTVPYDKIKSALSKFVQLLFSINVVLFVRFLFGFYMKIGSRKYFHIATKIWIVTLTIFRVYFQCRNFMNYPSYALILHDFTCTVELVILCIISSLGGEQHFYTYCSEMAELIDNRKNKRASYFTTSTLLIGFIILIVPTSISCKKVSNALSMLFLNIFNYVACFMHHLTIIYVFELLWREIRKCRISLERLEIMSVDDKIMKIENFLDSYKRSLDSLNKANGVMIPTMALAYFAIIAKIVFFTYNILSLRGFNILVHGDSWLLSTSIAIIFICAPALLVELAANEVNKIQNLLAVELLKMKDDKFZYRATLYDALDYIEVRSVKSMIWRNFPMDLNLCVGFINLIITYVIGLLQLLY

>BmorGR37

MSAKINYQEKLCSIKSIMYLGLFCGLYFRSSTSRMMLLMTKVYCIVLLFLGISFHLNMLSSDLPTETTLHSSIIMLEFFIHIITSLSTGQAKFLHFCTEMMKINGHNSKGSLDFQLVITNIALIIIIITQTTSSLLYCIIRSKCLSHSYVFTVITSLCVLFSSFTMIIKYELIWNTVRSLKNTLVSNLDSFDLSEQEKVNSVYNFLSTYRDIKANVDLTIKGTRTTDCLHASARVSAIVLSVAVTCIAPILVEINVYEFGRIKFALADQLLEYTDSKLRRSVYDVVEYITVAPPTVTIWPEFTVDLGLYMDFIGLTVCYCIMILQFEY

>BmorGR38

MKPKYVTNIKLVLFLRFLCGYYYEMEIPRRLKTVAKAYCIFFLFFYLVLHHLYCSFSNHTAKWSLYLEYSIYVFMSLYSKKMYLMDYYTSSRIIDFEPHSRIYKKLNIYLAILIPFLVVLKIVNMVTFCLSKSFNCWSWVSLLHNLLWNFTVLGRIPPVFVFALLFCRTRIIRRTLVSITVGPGSTVLKSLFKCTRYWLTVLKRPNTHLNSXLTVFLLCSTPKLILETFLMLNKIKESGPIVEKLAVYAIETFYTHLFFVVSSILFDLINVDLQRIKILIVEKRMKTKNTKHRIEVEKLFQFVKSQTIECTLWRVLSLNVRNILSFVSFAVTTIIAVLQIKNNNIY

>BmorGR39

MNVSPQYSVLKIFKPLFKVQTLFGSVRVKVGDNGITKTTKLQKFYSIFNILFATTGHFYTSFVYSVCVPCVGNSVAETSMALIQIYAGHLMNSFIVFSNTFLHNEKNVQMFKSLCSIDELMKIVRLEHRDLKLFIAIILLLSSTVIMNVYFLIYMVIILPISEKWVPFANIGIMNEDLEAITFVSVLYMLYDRVKYINQTALDPVNIAKLIKESDGQNDEETVSRILKAFKEISKAYKIVEKTFRVFNLSWGTFMSKNLIGVKFIARIMLISVCVSYLERELQKTKGLCNLAVRNCENDIVRCHLKNIYRIIDTEIEPMTVFGLFYINNVPLDLISLTATYTVVLLQFAFL

>BmorGR40

MLPICYIKLVYNISSIMFLRLIFGLYFELNVSNRMRWLQRMYCVFISIVIMYFCYFKTYRILMTVKVPFILEYGMHVILSLYLRENFEYTRYDPIIDSAADTKNFYKKFDIFIKIFLFVAILLKMZSMLVFCVLWSGLCYTGFIGICGMNFIWIATFMGRMVLPLIFGILLCRIRMFRLTLQKQGFDNLPYNRFSPRRYIMMYDSIVRGLEKTDFPAKNIMFVFTICIYSKILTGLFDLISVLKREGPKLMNVMLFTLEFLPSYVLLMIYSVTLDMVSTEMKEILKIVTEKRVFYEKQHANIQELCQYIKNNQLKYTIWRLVSLNMQSLLRATSFCIVSTIAILQIKDWNG

>BmorGR41

MSENSLEEYIHMSFSPIYKYQKFLGSNRISLKAKNKITVANNWEKLYAFLWMLAASYSIHHFISFFYSYYYERSNIIFLACSLGISMHYLTYILTITYDKFLTREADIDLFIDIQKIDRLLKLDRCTVLFKKFRLINIFLLILVTVPFISGFLIHVFDYIDKPYKTFFLGLGVTITYVDVLVTAFFITKLTLRLAYINDRIAMYNKINIPHKKYSGIRRSILWIFGWRIFKIMPKIKKNG

TREKKSTFIKYPSIIFNILKCYRSITEIYSLPVFLITATVSIWTFLVIGSLVAGSRSEIKIFPVVAMITVGLWNFYYIIQLTSLAFVNDLFLMEVKNTKQLCISVLLYTCDDSINKAANTILKNIECVPPIFSVYGIFVFDKSIILFLFGIITSNVMTVIQFSY

>BmorGR42

MNKTKKIERLSRDILDEDFIDVFKSIFIFQRIFGLLSVNITYKYITETSKLYKLFVMSLWTVNVLCLVDYILNYRTSFDVATDSMLKLVMSVNVTTNALIVWRNNFKLNTLKSQIYVKLQNLDRDLKTKDAVTMNKKLSALSIALMICGFIWCTIWLFVYNAIAMNTFCVPLTIILSANVGNWLEMVLLFIIFYFVNVRAEYVNKLLRRRLNQTECPDRVFLIQNAKPSDTVSREFICGMQSLLEIIGNIKDIYQFPIFLSTCQVMLCILVIVQNLIISVKEQTSTMVDSMLCMLPALLLMLTIFFSLCVIAEALTSKLDITKKLCAMGMHSFTDDISRRNSXQIVLLLKAKRPLSVFKIYTLGTRLPIHLLGVTASYTIVLLQFAVL

>BmorGR43

MLKKSAMITMKSPEYLSKDILDEDFVRVFRFPFLVQMVLGSCRVHLKARFITIPTLGQKLYTVMSIIICSLLYFNITKLYISLYYEQSIVYFLFLTVAGLDQLSFFANLIHVRFLNGETNTGFCIMMQRIDRKMKIDHNNIFNKTVIRANILTITLIILLYMSLVISTIILKKYSLVTLFGLVHGQLILLVEMAYCSNLIIFFFIRVRFVNAIIKNHVHPENQNQPPKLVRYFVTNRIMRYLAAQTHDFIVNDTDVYLKQIFEGFSMFIDIYRFQVCLFCIKLIVMSLLTFEFCLVGIQKNGPLRKKATRMLKIIEESTPQFSIYDMWQMDGYTFVKICSLVTNLIVTSLQFAYL

>BmorGR45

MITMKSPEYLSKDILDEDFVRVFRFPFLVQMALGSCRVHLKARFITIPTLGQKLYTVMSIIICSLLYFNMTKLYLPLYYEHSIVYYIFVTVTGLDQLSFFANLIHLRFLNGETNTAFYIMMQRIDRNMKIDHNNIFNKTVTLANILTITLIILHYVGLVISTIILKEYSLLSLFGLLYGQLMLMVEMALCSNLIIFFFMRVRFVNAILKNHVHPENQNQPPKLVRYFVTNRITRYLAAQTHDFIVNDTDVYLKQIFEGFSMFIDIYRFQVCLFCIKLVVLSLLNFEFCLVGIQRNLLETKNLTNYYIMTYSVIGFFTALYVSGRCELFFREIRETKRLAVAVLLQYQEGPLREKATRMLKIIEESTPQFSIYDMWNMDGYIFIRICSLVTYLIVTLLQFAYL

>BmorGR46

MITMKSPEYLSKDILDEDFVRVFRFPFLVQMALGSCRVHLKARFITIPTLGQKLYTVMSIIICSLLYFNITKLYLPLYYQHSIVYYLFLAVTGLDQLSFFANLIHVRFLNGETNTAFCIMMQRIDRNMKIDHNNILNKTVIRANIFTITFIILIYVVLVISTIMLNEYSLVTLFGLLYGQLIFMVEMAHCSNLILFFFTRVRFVNAIIKNHVHPENQNQPPKLVRYFVTNRITRYLAAQTHDFIVNDTDVYLKQIFEGFSMFTDIYRFQVCLFCIKIVVLSLLTFELCFVAVQRNLLETKNLTNYYIMTYSVIGFFTALYVSGRCELFFREIRETKRLAVAVLLQYQEGPLREKATRMLKIIEESTPQFSVYDMWNMDGYIFIKICSLVTNLIVTLLQFAYL

>BmorGR47

MKIRFLFGFYCDFPFNKRFQNILKFYCISVLVVLILGSWACSTGFRSDKKIVIYCEYIAYFLISLSTKDRYIFDYYKQQPLIDGSTTSKVLYKKLERLLKYFVTITIVLKMLNIFVFCGWNLTKCINELDGVLFINLLWIGLLLARLSLPVIYGLLYFRLRVLRMTLESKGFSNSPQNRFTPKKYITIYEKIMKDLLKMDYPLKYVFIIFLIGSVPKLLQNSWQFLNSLKNYGPEISKILEFTLECLHSYIVIILPIVVALDLSEDEIKKMKIITLNKRLACLNERQKMEIQQLFLLLKNNSLRYNLWRVVPVNLKSVLIFLSFGVTNAIAIMQAKNLN

>BmorGR48

MSGNYLEEYINMSFSPIYKYQKFLGSNRISLKAKNKITVANNWEKLYAFLWMLAASYSIHHFISFFYSYYYERSKILFLGCSLGTSSQYLTYILTITYDKFLTREADIDLFINLQKIDRLLKLDRCTVLFKKIRLIYIFLLILVTVPFISGFLIHVFDYIDQPYKTFFLGLGLTIIYVDVLVTAFFIANLTLRLAYINDRIAMYYKRSLPLRKDSGIRRSRSWICGSWIFQIMPKIKNNG

TRMKNYTFIKYQSLIFNILKCYRLITEIYSLPVFLITATVSIWTFLVIGSIVAGSRSEIKLFSIVAMITVGLWNLFFIIQLTSLAFVNDLFLMEVKNTKQLCIRVLSYTRDDSINKAVNTILKDIEYAPPIFSVYGIFVFDKSIILFLIGIITGNIMTVIQFSY

>BmorGR49

MAGIRTISFKVKPLELPDVSENNFADDGLKIVQRFKFFIYIQVITGINRLYLLKCNKFVMLFSYLYAIFLISFVASVYWTKEPMKNSHLVIRLFSFIEYILLICISVFLKKKKMMKFFENLSMFDQILKIDKNVNSTFCMKRVFFWVTGSIVYNLIEFYALEFYDNTSKGLMTIICTYTIAPAAIGVCVYLIVHCIKYTLLVVIPCYYSSITATQVSLIRITLHDAINTIPLGKLQRRKVKAFYLMTKEYSFVYTLAGVIKLNMSLPLSYISLCTTYLVIIIQFSKFLD

>BmorGR50

MAGIRTISSKVKPLELPDVSENNFADDGLKIVQPFKFFIYIQAITGINRLYLLKCNKFVLMFSYLYAIFLISFVALVYWTTEPKKNSHLVIRLFTFFEYTLLACISVFLKKKKMIKFFENLSLLDKMLKINKNVNSTCCMKQVFFWVTGSIVYNLIEFYAMEFYDNTNKGLKTIICTYAIALAHDCEQIFFFTLQRVVYLRLLVVKRHIQEYFKVDEDSSRKKPNKYEMLSNNVQLNLTALHEVYALLHNCAEKLNTVMSIPVLLMLFTSGLSTTILLKFFVRVIQLTDPSNPGSAIGVCMYLIVRCIKYTLLVVISCYYSSITATQVSLIRITIHDAINTVPLGKLQRRKVKAFYLMTKEYSFVYALAGVIKLNMSLPLSYISLCTTYLVIIIQFSKFLD

>BmorGR51

MAMGIRTILSKVKPLELPDVSENNFADDGLKIVQRFKFFIYIQVLTGINRLYLLKCNKFVMLFSYLYAIFLISFVASVYWTKEPMKNSHLVIRLFSFIEYILLICISVFLKKKKMMKFFENLSMFDQILKIDKNVNSTFCMKRVFFWVTGSIVYNLIEFYALEFYDNTSKGLMTIICTYTIALTHDCEQIFFFTLQRVVYLRLLVVKRHIQEHFKVDEDSNRKKPNKYEMLSKNVQLNLTALHEVYGLLHNCAEKLNKIMSIPVLLMLFTSGLTTTILLRILVRVIQLADPSNPGSAIGLCVYLIVRCIKYTLLVVISCYYSSITATQVSLIRITINDAINTIAFGKLQRRKVKAFYLMTKEYSFVYTLAGVIKLNMSLPLSYISLCTTYLVIIIQFSKFFD

>BmorGR52

MAGIRTISSKVKPLELPDVSENNFADDGLKIVQRFKFFIYIQVITGINRLYLLKCNKFVMLFSYLYAMFLISFVVLVYWTTEAMKNSNLVIRNFTCLEYILLICIAMFLKKKKMIKFFENLSCLDKMLKIDKNVNSTCCMKRVSFWVAGSIVYNLIEFYAIEFYDNTNKGLVTIICTYTFALAHDCEQIFFFTLQRVVYLRLLVVKRHIQEYFKVDEDSSRKKPNKYEMLSNNVQLNLTALHEVYALLHNCAEKLNTVMSIPVLLILFTSGLSTTILLKILVRVIQFTDPSNPGSTIGVCVYLIVRCIKYTLLVVIPCYYSSITATQVSLIRITLHDAINTIPLGKLQRRKVKAFYLMTKEYSFVYDLGGVIKLNMSLPLSYISLCISYLVIIIQFSKFLD

>BmorGR53

MAHIKDENQSKQQQKEHETLNKNKLKKVVYTLKPALMLENWFGLSDFLLVNEDELVLLMQTEKFGVILSIFFIVMFAVFVDFPDTETESIMELMDEVPSMVVLSQYFIASITTSSCLSAIAIRIFETFADLDSMLLITTTQDFYNKSRYQTNKYLIILGVSHIISSTLDLLTDDEIVWCKFFVLPIYFLQKLEVLTFCKLIVMIQCRLQIINKYLTNFIEEQEKNKALVFTLAESNPKKTDKFNWIGCPSPNNMKIRDLATMYDVIGTICSLINDLFNIQIFMTLVSTFTYIVIAIWSTLYFYRAPNFTFGTLTTIIIWCITIILSVVVMSFVCERLVSVRNNTKILVNKVIMNYDLPKTMRVQAKAFMELIESWPLKIMVYDMFSVDISLMLKFISVATTYLIVIIQLSHFV

>BmorGR54

MITIKNNFGFRQNNLSFYRPILIILQLCGYDFDYYNINLVLNVLTKAYCASLTCVVVYATIACCSSIQLSHIWSLIEYGTSVVIIACFRSQTKLFLKQLTTLDVYLRISNRRFVLEKCKIFTITSVIFLLRIVYTSIYCSTHHCFNVLIYFLLSQFALVCLDVNRIWRCIVFDAIRYRLKTLRLRMEENPDCNYYLYVKNNKSIRKNKISFCLFLYRTIADLVDLVSPELNVSLFLSVACSLPKIVSNAYHLLLIIEDREPLETGGYVLMHTLQVSLLLFTPFIIVECYTMEVEKIKLYLVHRLIDENGEDTTMRDNIRLFLEYMSVRTFRYRIFRIVPVNATLPLELVNLCVNYVIVLINFTHLYG

>BmorGR55

MERINLLKSFAFLENVMCIYRNFMFYNQRARFIIIGRIVAELVFYIFSAYNGFLLVYTDWFSQNFSVFFIEIISKSSFYVITFFTMVNGILKSREYKTFIFSINKIHDYILNDTDYLKRLKCTNIFCTATIIILFVVTLIRTAIDGSNYGQLSGINARSVIWMLTTILLECQYQTECVVYFGFILFIHAIMKYLNIRVTNTIIKIARSDMAVKRIPKYIIGRTELKDETDTGVDVNNVVDLEEVRYWVFIYRQLGLTTELLQKCFGMQTAFIFVTAVLNQIITVFRVIAVFIYGSLANRGAEHSIIANFLFTLLYRLPGLLMIIVGGQMVQNQTDMLRRSMARLNNIISNPHRETFSALSDFHRMIVKNPVKIYVLSVLPVGAYMLPLFMTLLINHIIILLQFNHVA

>BmorGR56

MKKIRLLRSIVFLENLLCIYRNFLFFNKKARAIILIHITIELVLYVLSIVNNSFIIYSYFHSDNRSMLIVFTTICCFYVVTFVSIVMGILRSEEFKDLVTSLELINKFFTNNKTYLKSLGRSNTMIIAITTILYCVTCIGIAVDKITLNDFYEFTSSDVIWTVSSTLLELRYQTECVVYFGIEYLFLIFTKHLNLLVKEAIKKVSLDNNGTVKDVPISSDAVTKNEVKRWATIYRQLMMSSKLLQACFSLQIICVFVSAVINFITTAFRMVKVSVLGSIATDMNEIIIVNLIFTLLYQNIGLVLIIVTGQRVWNQILLLNVLLARLYNGILIQPCRDTLRTLKNLQRMVVKNPVQIKMLSVLPVGSYMLPMFMTLSVSYIIVMLQFGHVV

>BmorGR57

MEEIKAIKLVTFIENCICVYRNYAMCTKRNKKIISLRIIVEIIIVFFVNINNILLLHKYYNGSGLLYIIYLFLVVYYINYMFCIFYGALQGKAYRQLIFCFNKINAIAKRDKSYKKSLARLKNMCIVISIALLIISALSVFVDRSNSWNIYEVSLRDSLLILSKIHMDFFYHFEYVVYFTHIKIFHLTLRYLNSRVKMAQFEMKMTRRDVHDEGERNIRILLTKELTTEWAVLYKCLVFGTKTMKSLFGLQMLIAMVMSFVNFTLSLYGIILICSIEQSQTASQHNLLLILTYYTATMLLIFIVAQSVYNEVEMLKRNLARMYNILAVDSDETQQKLVKDFLRMVYKNKVEIKMLSIFPVGMPMLTFFLSLSASYVVVMVQFSNVF

>BmorGR58

MSSRRVLYRAEVLLSNNVDAHVQDMLKPLNFFQFILFFPKYTIRDGYITPNSLIRNIWSATGAFVFISICVFRILTMNKIAVYDTFTTMLLISKYFDVALYCIGFIVNTYVNIAYSNVNVLLYLKLQTIKTFIPRNNEIMKNVKWYSVILIIVLFCGTLAMFSFFHLSFSYFNIFDLTTDLAVFSFDLNLVYACSVLNFLAQSLDELNKEIWRLGNAKVTVCKDGSKPDWNGINLTYINVLDAYNYFKEAFRLLIFFHTFKTLTHMFIYIQSIIELCKKFYPGDDYDAITVGAVVGVWFFRNITLQCLVGVSCQNFYSATSNTESICAVQVGSIVSDEHKLFLKAVRRLNNVVFYKWSMYGMFIVDATLPRRLIELIATYTVVFLQFAFK

>BmorGR59

MPYKKDSNRCEVLLYNNVDTDLQDMLRPLNFIQTIYLSPKYTIKDGYITPNSLFCNILSAAGAIVFFSICVYRILTASKIGTFEGFSTTLLITKYFDAILFSLGFVANAYVSIRLSHLNVLLYLKLQAIKTFVPCKKIMQKVKYYSIVLIIGLIIVRLIMYIHFHWSLGYLSYLDLITDLGVISFDLNLVYASSIVKFLGYNLEELNKEILRLDEIKATMDEEGSKPDWNGIRRTYLKFSEAYNYFKDAFRILILFHTLNTFAHVFIYVQSVIELCKAPADNYSAAFSVLIAVIVWLLRNIILQSLIGISCQSFYSATSNTQSICSILVRSVLSDDQKLFLKTVQRLNKANISKLDVYGLFIVDATLPLRLIQVIATYTIVLLQFAFQ

>BmorGR60

MLTPRSDLCNEKLSPSFPSGKTTAADKDDTEARCQVDSSLERLLLPFNLVQHVSFIPMYSIRRGLVSPDGPLAYLYSLLGFCLFTSVSVYRNAIMHGTRLSSLHLFTLYSDLVSFVINYSLSLICNVVNSKSNVEFVCRLQRLQTVLRRNQREQEQFARSNWAHLAVVTALYLAVVGLLNVVVLKQSLPDTLYLLLLFCIDVNVLYATRMLALLRCYLQLWTRKINEKAFNPVHHNMFTAYLDILQEYEVYTTLFKKIITYYVLETFLHGLLYVQVAIQICKSIRRSGRFSEQLMMIVSIFTWTIKNMIIMTLHNVECEKFYLAVEQAVAACQTQRASTTRCREEKRLYKNVCRVSRAAFSRERGWGLLAAGAALTLRFMDLATTYVTVLLQFAFVSRT

>BmorGR61

MSIRFEKDLLHNYVEIELQYFLRPFNVMQSLFFQSKYRIVDNFILPNTLFKNIMSFVVSVLCALSFIYTIISVWQNTHATSFHALVTSVYLSYNIYGILIGSVLIIWLSDRNIEFVLKIQDLIKILEFNKCFLIEYAFINSIIMAAIFILNFLLYGYFVVHLQKFALGLTFSAIVCILNQDLDIIYVIIFANILKKCASRWTVEARQKNNFNDQGKWVKLFNAFLNLTESYQLYQKIFEFYELLRRVGIVFLGLQLTVCRVCSNDIKSIQCTVMLHAFQLICVWIVKKFITLSILSFEMEIFYEKLREIETVCIILVSSDNPSERELKIWKNIIRVSSCSVRKTTACGLCEVGAALPQWLLQATTAYTIVLLQFHITTFSRARNDIYDLD

>BmorGR62

MNDLFLSKIVKWTKTTKYKLDDDFQSLFRVFNIAQAMNLCPKFLIYDKYITNNAWFIHILAISSFIVLVCLDSFFANFRLVLSEAMGPPFYGFSFYFISILYENIGVIIQITMNGYLTKNNVLIITKLQDTFKDFRTTDYITKSNRWTNWFIFFIYMNFIANYSYFNFYVNTFSFHKFCFAFIKMCFDLNIVYTIFIFKMIGDSLTMFKDTAFCSKNMKLYEVSNRVYWNKMLRLYSNILDVFELSKRTLNFFIFYFVSNILLRILSHVQLAILMNSINWLQHVAYSNIVMVLLTLAKEGIILIVLIAKCEKIYCVIGDVQTACQLALGNAACPEKRRFCKNVRRSSSAAFSKIYICNILAVDAKLAVSLMSVTTTYTIVMLQAILIK

>BmorGR63

MQIGNAVIHLKSTKLTTMNTISPTTKLLKIFALNSNIEEIDLKCSTKLRITMTAFVLCSLIFYSLYYKFIYVFDYVNISIKITDCVQMVYDFCQYIVDLYFVTNYGRNISSEYFQQYKIIDKILEVVCYEIIKHRIVKLLWVFMCIWFSSSCFDFIAWFLNYGWITPLVYSVAYIFLLIKILTTLDLSAHIMNVEIRLKMIADLIHHYYMSCEDNFQAEETLCHKNWLNSKERAKYYELQFRIHALKQLSCNNNEIKLLSRCYLMLTEQVEIINRMYGFRILLNSLSLLIDMVRFTNISVRIMIGSQNLAYNCGYFPAVSSIFRLLTCGAVIINLVSHCERVYYQRTRICNVIDHMIVNKNLSRESTEALQEFRNLVQNHPIEFNMANFFQLNYSLLVSIASVVVTYTIILLQSVN

>BmorGR64

MKISLRKIVSIRNMTLIQNMFGFYHKFTDNRAIGVLLKIFCGFYSLFLSFLCINCTPRFTNDFLTYDIFFFVIEYLTSVLVCLLYDGQYFLNYLYDLKLIDREAGIEESLEKLPISQPLFSLIFITRVIYLLSCLLMFDGIKDSLFLPAQSSVFGANFTEFARTIGYFPRVIMFEMFYKRVNYLKSQLRNDLAHANLYPIGFVCSKVIMKYINFYKLLLRNLQQNSLQFKILMSMSSLYIIIKALASAYAFIYREDGVHVFIFIEFATGVFLFFVMSSIIISIFNEIEDIRQIVLAQLRYCKQGANTKRVQDALTILNIRCFKYALCRIYTVDFTFILRILDVSVTYVIVLVQFTHILD

>BmorGR65

MKISLRKIVSIRNMTLIQNMFGFYHKFTDNRAIGVLLKIFCGFYSLFLSFLCINCTPRFTNDFLTYDIVVFVIEYLTSVLVCLLYDGQYFFNYLYDLKLMDREAGFEESCSQKLPISQPLFCFVFITRVIYLFLCLLMYDGINDTLFLHGQISVFGVHVFIFIEFAIGVFLFFVMSSIIISIFNEIEDIRQIVLAQLRYCKQGANTKRVQDALTILNIRSFKYALCRIYTVDFTFILRILDVSVTYVIVLVQFTHVLD

>BmorGR66

MKRKLKKFFPNKEYNNIVEATHLWKLIRKLTGLSVLTLESKEGNRIETRFSSLGFVFFLLWFTIYFYCTYKAHNEDQTILRNIYSTKLQRYGDDFERITSIIYVLYSMWKLPFQISGNRLLLQEIVDIDKAIESVGVTIDYKKNATFALFIYIGQIATYLFRLFCVWGCLGNLNSPVPVEKLYQDIFTDALSLLLTSQYCFSLVILRDRCRYINKILCGIENRESSRLRLFVYSSMPGAEKDITCRKIKDCSKIYGMIYKAVESTNITYGFALVLTMLLYLIFIILYMFYFMEATAAGLFLDTKKYIDFLICVLSELLHAMLIIFLNIYFSEETVKETRTTSFV

>BmorGR67

MRERKKKFNKLLNTRNYNNIVEALLPSDSIRKISGVSVVYLAVNSENRIVTKFSFIGTIFFLFWYILYFYCTYKAHSEDQTILRTIYNTKLKRYGDDFERIASIIYVTYSMWKVPFRMSGNQVFIQRIVDIDSAIENMGEAVDYNKNAKTALVISIAQLGDFLVRMFCIWLSLENLSVIVPTEKLYQVVYTDALSFVITSHYCFSLIVLRGRYKYINKVLSEIKTRSAWEYKVFVRNKVAPDLEKVQRLQDRIVCEKIKACARIYSMLYKATEAINRMYGTALVLTMLLYLVFIILYMFYFMEATASGLLYDIKKYVDFLICVFWQMSHALSIIYANVYFSESITREVCKF

>BmorGR68

MRFGLKAGAAVVTILRPYNLCLKNIFKPFYVMLSLLGLFPYSIRFLGGKQFLIKPKSIYTNAVCALSLMLSMTLFLIFHIDHIIYKSTEDNSLTEGFMTQVNYIIEMLNLEIFCVVYYFSSFLNRNKFVKVLNTVAVWSDRISISGIKTLSFLRLKIHFSIGILMFLLISQVCVNFTRVDSLWKKVLVMFTFNIPQMIQFTAILFYYILVNMVITLLVIIQENISISTRDTKTSSFIRVEHRMPLSLKQLELIYIKAFELKRDINKAFEAPILLTTMQCFHSIVSESHIIYHGAVMEPHMVLHSIMNCSVWILYQLFKLYILASTGHLLQEKIQHFSNLIHFHGKGLTVYGLFPLDGTLMFKVVASAAMYLIILVQFDKRN

>BmorGR69

MNCIVKLLTITGSLTISVVCSSFMISNLSEHAFVGCYFEPCLCNFNPRNGIRPRHAETMFVIPWLTLGVVLAINMFLFYATYCRIARYPSLLEKIKHVVPLRNSYKLIVDSLEKTQKSFNIVFIISLIFNVPETMLSMDSRAHSPPGVKIKTCLRACNLVPLDFSLTIIILNICLTYLIVIIQFTQLY