

>TpreOBP1

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MNKQGQFALDKMFTQVDLLVVEELAPRIKEIAKICFDSTPKIDDPCEYTYDLVVCAYNIDSSLQGILSKSQMKNR

>TpreOBP2

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>TpreOBP3

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>TpreOBP4

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>TpreOBP5

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>TpreOBP6

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>TpreOBP7

MYCTNRLFIAGAQAAAALGHVSPVSESYACLAESNLTKAQFIETLKSNDTEVAQCIASCTMEKEKFMTGEQIHENAI
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>TpreOBP8

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>TpreOBP9

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>TpreOBP10

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>TpreOBP11

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>TpreOBP12

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>TpreOBP13

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>TpreOBP14

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>TPREOBP15

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>TpreOBP16

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>TpreOBP17

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>TpreOBP18

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>TpreOBP19

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>TpreOBP20

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>TpreOBP21

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>TpreOBP22

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>TpreOR1

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LVILYSKRHYCNRTLHEFRQLWSRCADTGHENLLLLLRFNYKIRLLYIFYLANFFLGLGAFLPTFYRRLPPLQPNGTSR
RILPFFWYTKVYDSPNYEIVYTIHCITYVCIVVSISACNVFPSFLVCSGFFRILRKRLNDLAKIDWSTDTSYYTSLIELVN
LHQDILSLSKRSVSLAQNLLLINLTSVTYNIAIIAEFIDPTSNRPRLLPILITLMVQLFNIQWSAECIRQEVGR LKTRKKF
KLFFICQRAKQSYLIADASYALKLDASANSRYCIRMMIMRAQKPVEVKAGGIYSMSFESLNRISGNIYTFYTVLRNV
QT

>TpreOR2

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EISLQSAAITALTRMYFLLLRKPQVYSMIYHTIEMETKGPIQLLSKEECIIINKWRIIQDFTKMLSVGYLLGVIFYLIPP
AFFRKLFPFVIPENLCTEWYTRYII ECIAIFLSCPAWVSLDLYLCIFLCQLCMHLELVYAAVQDLRGKDRATLHTIIRR
HSKVLMYGGQKLCEVVHYIFFAICCSYGSFLIFGTITIGEISWKTHGALAIKNIVTLVVCSTIYILICYVGELLQDLSSRIGD
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>TpreOR3

MNLKIKAMSNNNAKTFIRHKQITNPAGSDGFEYIMAPCRFFLRLLGAWPDPLENDSWSSTLRILIVTTIMFLFAIVSQ
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IGCIFMTEATLLAQCMVGLWIPIFYTFQKSQLNSSVEWPLYMTGSFPYDTQKTPYYEFTIFGQLFSNVLASTSFSSSD
SIFFILMLHLINQLSILKLSVTNLPQKIVTIQDRINF MNKFTSFHARHNQLWRFS LAVENTFNRMFLIQMVPCIFGLGT
QGYQLISNIIQEHTPLVELVFMIFYLVLFIFTIFTYCYVAELLRRQSLEISDAIFACNWRILKSREIKLLAFVMARAQKPF
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>TpreOR4

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FNNVSNNAVGPLLDGNPGRDLMVDAYTPCRRSASLACYLIFYWYQVFGYNITSFVHIGCDGFFFDTVDRICAHLKILE
RRLVKLPELVGAQKFESDEEKM QFEMDYVKECVRYHHSIFEVMRELRTVHVAIIVQLLSSVIVLCTSIYLLSCQPLFS
PEFLQLFIYFNCA LFQNFYFWFGYKITVNTLHVSQALLDMNWWTL DVKTRKMLLFVM MRTSNKVELFNSTIMILT
PESFVKILKLSYSAFNILKQTS

>TpreOR5

MNPDEVFDNKYFRLNRTLLKQVSLWPYESTSTKVIKRIFIMVGFYSMSLPQMIRGIEEIRSDDPDPEIIENLSGFIYFH
GVISKLITQMV TENKLKYLEEISKDWKTITDKNEKAVLEKSAAVGHQLTIFYTG FVVLSAIFV SITAFVPVLLNHVLP
GNQTYQKQICIYAEYFVDQEKYFYIFHTMVIGVMTVYVATAIDSVFVNCVQHVLGLFNIIKYRLKEISRVYDSSVN
NSIDLHFDVKRYLIDILTHKKSLEFTNLIQSAYNECFFLLAGLIVAGLSAFTYVLSQNVNPNLFNMRIWFLWFGVIVY
MFFVNLPGQKLLNISELLLAIDSSWHKFPKTRFLIQVMMLRCLKPCRLTAGPLIEMNFASC SNILRTAFSYFTVVN
SMNS

>TpreOR6

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ASMGFNSSVNGLLNNGALKKLFDSLKENWNDLQSDDERTIFATYANYGKMFTVGLSISYYLVILSYIVSALMP SMLH
YYFTGNWTIPERNIFEAE LFVDPVEYYWPLFIHGIIIAFVAIWILLAYDCFFIMIVLYCCGMFSVLLHKIEQMDTELYNY
SYDQQLALEKIEEIVTYHLKCLEFAQKVEDFFCIQYVIQLLINTIVISVCGSQVINIADESPLDIFRYTYVAGSVIFRLSLTN
VCGQSVHDRSLRVEYEQLIHRNWYEYPIQIRKLFIVLYNRSVEPCNLTAGKMVN LNLETFSKLMKTALS YCMMIIQTQ

>TpreOR7

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LLEYITVSIFFLT FLSIGSYIFYSYLIIIRFQQISKKFETLQLDQLNTYNLELSDDKIQVDVIATIKKHDKCINYSNWYQW
EPKVRLAYLLVMIRTSSPYEWKAGPIFVLNFEMVAFALVQFKKGFTDALQMGGFLSCIITLVLLCIPSQFIIDVSDK
VGHACYFNTN WYEWKPKDRLVIRRTLMRTLYPCGWKAGPSITLNLRTAAFVIKTAMSYVMTMISIYA

>TpreOR8

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MIALRVHMAKIREVLLGSLDDWTALDESKNEQDRSLMWSYGKTGRRVILYQMINCYVSNTLIFVGS L PFLMPPMD
QSNATLGNETMVG MVRQLPLRTGCMFGNTRNGLYASLYALET LT IQTTAHGNIGSDCFIFSLMMHLCGQLELLRN
RLSTIGDGTSAESKEEEEEERKKTGREIRER VERHSQLELASGLNATLSGVLIQ LLLNAGLNLMLCIRIILALKSGVALA
AVRPLLAFGVLMQLFLLCYASERLCQQHEALADSIYQSKWYELPIEQRRNLNFMAARSSKPIYLMAGHFYAMNLE
NFKNILKASFSYF SILRIMFDAEEKNESTRPIFRCLSVQACTVSISA

>TpreOR9

MAEEEMKINEVDDFFDLHYFALNKKFQIITGLWPLETGYLKYLKQGAMASVIIWNLILF SHALGTFCGTNMDYCC
NMIAFVYSTSAIFKLIGISTTGAKFTVIYRMIARNWRNTT DKVERSILEKYALISKRLSLIYIIAFSCIATIVTQLPFIPLLN
VIMPLNESREAIIVINTDYSITPYTKSGHLVWHYSLTGTTAAVFIATDATFLLVVFQILAIFEVVKQRIRQAVLVAQES

SEQKSYGILIKAVQLHKDAIQFLQLTDEANSLQFFAGLGGTIFMISFGSIALIRMDAYADLFRVVILTMGYLFQLFILC
LLGELVINASTELFNFPMMLTDWHVLPKSKKLILFFMGRTIRPSYYTAGGLYIMNVQNFASIIKTAVSYIAVVLQFR

>TpreOR10

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QYSERGMISVGYSYISLALIVYISTPFIPTLLDLVIPLNESRPKMHLKGEFWFDADEHYWQIFQIDSISCIMASTVI
MTVDSFYANCAEHCLGLFAIVKYRLSIPNKENLKKTDPRYEDVSYKWLVENIRLHSAVLEFSSMLNYQIVHTTSLSVL
VLMSLEKPLDFVRFSMLLIGLIIHLFYLCWPGQKLIDHSSGLFRDAYNSQWYDSSMRSRKLLAIFILRCSKPCILTAGGI
CNMNFENFAVILKKSMSFFTTFVSNIS

>TpreOR11

MFKKLFTIYLPEIPGLVELDKNYGETLIFLHHTTFYVTQPPINWEFAIQNLFELSFVLMMFMSMYFILGNMQREIHDT
SMTVNFWDSDITSDQKEYFEKCEYIGRKVLMILSTYVLVALSFTGTMLFSLSVNNYFLLLEMIISFFSIIFTAFLTAHFG
QIVINASDDIFDYFCGWYKFPSTKPYIIMMMIRALSPCELKAGPSAVLTMNYENFSAVSYDQFHVQFNKLKPI

>TpreOR12

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VNILRISYAVLNFMRRLNVVCQTAGLLTRQSFDEFNETFFVVLSTGFASFKGSCDLWNRKIIRLVDMLEPFCLAR
CQRESAIQKTYDQMGRKIEIIMLCVVELAAVIFLFGPLINHSRELPHYVLLPYDLNDTLIFLSYVHQTFCILVTAGTM
TNNALIVGFMMQLCSQLDILKLRFRKASDKIKEQLEKEVASGKLSNRSSRQMEVQIIRELAQHHLHAYNLAETLCDT
FYGIIVGEFCINSLVICSVYKLSLNAGTIPEILFNALYLCVLTGEFFVYCYFGNEITYKSTTLFEAIAIDWNPMMSKEFKK
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>TpreOR13

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LVIDNLMTSSAALASCFKLFFLWKAKNVMPVVESMRQDWLQTRQDWSSKIMRSAAVKGRIFAMSGYLIIVGCY
CGFAVSPFLGFNIRMISNITDYGDRHMLVQSYYPDYDSKSPIFELTFGSQLVAGIFIGMSVSPDNYFAALVFHYSAQ
FEILGARVEQLIRDDCSLDAESHFFSENWPRLVDRHVHMTMVSAIEQSFTFINLGQILCMSCMVCCLGFEVSNN
VXGSINLQFTYGSVDVQIFSGGEYKPSALQILTLVGTLMIMMSHTLVDCIACELLASNSSGVFHHISSGLGSNITRRKIK
DIIPMLMTSKKPRKLTAGKMFNLNLASYCSILKSIAGYISMLIAVNQR

>TpreOR14

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DNLLTSCAALTSCFKLLFFWQNRQVLDLVIESMRKDWLRGCKDQRTKTMKAASRARLITLDYSVMASCYAGFV
VAPLLGFDLRTSNITDYPPGGRKLLVQSYYPDYDSASPTFELAYFLQLVGSFFVGMVAVSIPDDYFGALILHASAQFN
VLAARIDGLIDEVTTTRDCRGPAAVADRSSTINRRLGRLVDRHVHLYSMVLAIEKSFSVLVLAGQIFCMSVMVCC
GQILSVLNNMSDKPTPLQMVTLIGTLFTMMLHTLIDCLASEALASQSTEIFYRICNSRWYELPYKSMRCLVPMML
VSKTPRQIKTGKIINMSLATYCSIIKSTAGYISVLIASVK

>TpreOR15

MRGKKFSRAEEKEYANLIWPMKSALRMCACWPSASPVDLTPVKLYRILVNVCVTFVCLGGALEILAFWGQVDM
NETIECSLVVSALSMATIRLIVFNRNAREMFQVLDTMRQDWTVNYTSAEDRAVLNRNCRSLFKLAKIFISSVVITWA
LFSAMPYVEALHGHRRILPFRGYFFDLDTASSPVYLGYYVMNFTLGAFCSTIAAATSFSLIATIHASAKFAIVKKKFE
TIDWNEPEQVKMCVQDQHNCIKYAENVETVINILALGQFVVSTGLICFAGFQVTTMMKDHGRMLKYSSFLQAAI
MELFIFSLSGQLMQTESLEIAEHAYNSQWIGCTKSINIRMVITRSRKACTITAGKFYDMSLESFLKVLSSSFYFTVLIT
VKDG

>TpreOR16

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LITNSAALTsvIKLFLWKNRYVLEPAIRATEDDWSSVNGNNETTARNRFELESMTQRANRARIFTVSGYVIMFGCF

AGFVFTPLFGIGIRVVNNITDPLDGRFFPLQTYYPYDIASFPLYELTYASQLLAASFVGIAFSVPDNFFGALVFHACAQ
CEILNALLREVEQIADYCTLDLVEKEGERFHRHLRDFVRRHVQIIGFVDSIEQSFNVLVLVQVLCSSVACFLAFGVIQ
SIRSDDVNGLAIVQVVTLVATLLNMIHTFVYCVACELLAQHSMSSFHTVYNFNWFCCLRAKHSRPLLIVSMRTRHHL
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>TpreOR17

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GSTIERAVDRFDNRILARIVNDQLKLYGLAIELGGIFNELSFVELVGNLILICLVGYLMSAFVQHNYTVAYNLIITLT
MNYNIFVLCYYGQILSDKFEELGRSVYMSNWHKLSFGDARSVVLVLGWSNRPFSLTAGKLITLSIESFAKIVKTSAA
FNVLWNMTSNSIRA

>TpreOR18

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GMCYSTFVPLSKSPDVVDNVTLHTLAYPGNYIFFNPRTRPAYDYVFALHCLGSIVKFTTSCGVCSIFIWFMHISSRV
DVLGTTIERAVDRFDNRILARIVNDQLKLYGLAIELGDFNELSFVELMGNTILICLVGYLISAFFQHNYTRAYTLTISLL
SMTYNIFVLCYYGQILMDKFEELGRSVYMSNWKLSGSSARSVVLVLGWSNRPFRLTAGKLITLSIESFAKVVELDCL
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>TpreOR19

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YIRTPVKIPFEYESGGLVHWIYALEVAAGGYCWSVTVGVDTFFGFFTLHLVGELQLLSSRFADMKPDKNHRKIIKEL
VDRHNLLIEAQRTVQKIFGLLSVWLAITCAFIICAIIFQATETKNMTAYKAVYLLCYAFLKLQAYSAYWYGHITVESE
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>TpreOR20

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RRYGLLMYSTACMYFVSPFLGMQKDGLRARMYPFFGWYFDRDSDLYYGLFYLSQVVIGIVVGTCTNYSMDSIFFV
AIYHSCAQFRIQYDVERIGADEMELDHDRATTKRLLRLIVKHQKEIRSAERLETMFNAASMQQLLVSCIIICVIGFKL
IIALNDGGFEVLVYVAFMVIALMQIFLYCRPGDELITQSLAVGYAAWQSQWTLNLGTESISKLATIIQRSQRPMRIAA
GNVYVLSLPNFTMIIKTSMSFSLSLRAIYIKSD

>TpreOR21

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FSFVGFLHRLFLYIFGRRRKLAAMLDYCESLWTRVESHEKVHVVRGFVRKVKLSGCCYSGIILTTITLYVLSSQLPQLTATS
SNETVHRVLPYPFYFDVQSSPRYEILLATQIACLLTVTQTSVCVDTSIAFLIMIACGHFRLIQVRLEQISSHIDANEREA
HRSPLRIEKTGPLSKILDNKDDDRVERETRVGKWTGRVISRKIRQCVKYHGEILQFCTEIARLSSEIFMIELISTTYNLS
LIGILLAGNMPLTEKFKFAPVLLILTTQLFVCQYPPDLLRESLGVSDSVYFVPPFRNDRWRIDRMLLMMLRRSQRPY
QLLAGGQIKLNIESFGNMIRGAVSFFTVLRSFN

>TpreOR22

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QFLTIMIYCTIIEGLNTLLYSGVGFIVGELQYLQYYLEKTDSCYNDMVSECKDIAYNFLTKSLVYFIEQHQCICKLYEILYL
LTESIMFVSMGLCSTSLIACSGMVIFMDSVDVSMALKMLVLCIATLSVILFICIPGQFLSDAGDELFTKCYCVDWHGY
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>TpreOR23

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CNGVINEKKMKFLVDKIHTDWKNVSDPMEIDILSRHSSRGKLLNILYIASVYNALLSYLLLPLSPIIMDIFMPLNESRPR
QPLLIAEFFIDENKYFYSMTTYAYMTCLYGIPLLGTDTFYMNCVHHICGMTVILSRRIKNNINGSKKELLRTKYQRTV
DCIINHQSIIIEFGDGINAMYNTSFFIIIFLNTTLLTFTGVAALIKFNEGKYEDEVVRFGMFGVAEVFHLFCNNYMGQL
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>TpreOR24

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FYVDQEKYFYVLLHSYITTAAGVLPILATDTFYASIAQHACGMLAILGHRLEKARYSELNHVEKSVNQYKGTILTGWG
QLHNMIRYGMFTAQMFHLLFYCYQGHVLDKSLTINDSINKSNWYGSSIRTRKLLTMMIMRSQKPLKLTAKLFPL
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>TpreOR25

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VDQDKYFYHILIFLIHMLIVSALDLAYTSCITYVMGKIIWIGHVFEKLGEINVSESSSSKRKMNVVYHRTVIGLI
KRHQICLDFSQTLNDTCSPKFFISIVLLNLLSLSGSMMAVVEISYDASSATKMAVAFVMILILVLVICYPSQLLIDASNDIY
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>TpreOR26

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IIVPQMLDLVVPNLNRSRQVITITMADFGIDSDQYFYTIYVYCVSVVSFFVLTSIDTMYTAIHQILGIFNVVKYRLLN
VQTANFGLNKGNDKTGRDISSLNVISAIRLHHKSLQFIDLIESTYRYCFLILIFICVIFLSFGSITVLEAVNELYNFLRLGIVL
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TTGSYITVLASFRG

>TpreOR27

MSSVSWHSEYAVQMCRYFLRPIGLWVTNENSWREKFFNKLLTVSTFSLLLFLLIPCALHTFLEEPNIAVRMKLIGPM
SFAVMAIIKYSSLTRLTKRLEKCFKSVEEDWKSSDSAERKVLHRQAKIGRLLSIFSALLMYSGSFIFYHVIMPVAAVQTF
SANLEVAHDSLDINGSSSATNEKKLRILTFPTYEAWVNLDDEIAYQFVYLMQCLSGFVMDTITVTGCSLAAVFVTHT
CAQLEIVVEMSRNYVDSRKNDKTPKTSARLTVLVKKHCRALKFATQIKDYLNIGICFVEFIGCTANICFVGYCYLTEW
ERKEPISMVTYFILVISFTLNIFIFCFIGEHLAEHCKQLDSVYMNIDWYKLPGKEVVDLLMIIAVSRRPVKLMAGSFADL
TLITFSSVMKTAFTYFNLLRTII

>TpreOR28

MEIYNREYFMHSRFFLKLFLGLWPFQSGKFNKIHQIMMMLPLGTLFIPHCAKAYETRHDFHIFVCIISLLFFMHYITK
FLYLSLTEKQFQRMLKKIDNDFSLSFSDRSLQIIHDYSNSAQKFNMFYSIYLISSVITFNLGVFMPRALDLIMPLNESRPL
HPIRALRYIDALDDSFYFVLFHGMFFDMVSIVVIVGFDTLINCAQHACALFKIASMEIRDCTEEINQSNERNVLLTQ
RSMQKNYHRKIVKAAIIHKHALEFFDVLESTYSLLNFFIIGISLSTVTLAEFAVNATDVMMRFALLVAGQFLNILYQNY
PGQLIKDHSLEVHAICCECQWYKDDVPDESKLLVMIMLKSAKPSCLTAGGYFVLDLQNYLQIMKASLSYFAFLRSV
N

>TpreOR29

MAGKFESIEKFYDQPPFALNKVTFRMSGWWPFQETKKRQMIWSFVWFCIVTVVIPEVIYLIQIIKDLTKVIECFMAL
TITYGAFTMAFNAWHNNDLKKILEHIYSNWENLRDEQELRIFTDRATISRLVNIVYALAVFYNNIMIHTVSPLIPPVVD
WFMIGNWTRPEKNLLEVEYFLDPDRYYTLIYVHGAQAGFLVVFVIVTHDTFFMTITQHSCSMFTLLGHRIRKMD
DILKRNRRHSYAMQRVKEIIFHRDCLRFAQLLEDTMSVMFLFQLFPSVLMISVGAQAMIRAQAIEELIKFGFIFIS

MIVRLFFICWCAQSIMDNSLVVMSYLANTRWYEYPESSKKLFQLMFMRCRPSYLTAGNMIKTSMSYLTMILOQTQ
E

>TpreOR30

MKIPIIGKPLEISLKLTFWNEEVNKKVVLALMWSSVLTTPFVSVVAIRMSKNPLMLFDNLSVLLAQVLLYSKLLIFS
YNRRLLRNLLREMESDFESDPQLLRYIELSGDDPRRFCKYDFFVYLGSSALFWVQIGFMYVAVPVEMREPVFKVHYP
FDYKSSPVYEVVLVTQVIQGMQLCCIQAFSESLIALVSYVCAQIDTLFARMEEFSKMCVSDDKRNLPRLSQPVYKQ
HIKVLNVFEKLNKIYFYVTFQVFFTTVVICLSGFVVIVISDDPTILVKFAGYYFCSCWQIFSFCLAGQRLLNKSDKISMK
MYETIWYKTSIKEIHAVAFIIRKSQKPLMLSVAKSTELSMTTFTQIMKTSFSCLSVLRARYN

>TpreOR31

MSRTGFEECAGVTQWCLTSIGYWPVIHGKRHWFFQILLPIVPTAMILFVIVPQTENIYRFRNDFSIVMDTLAVAVV
GCVLCLWKFLGLHSNQKDLQIIENIELDWKTANEHEQIIMWKNNAKKSRIVTTIILSSTIANVSNLLMGVIMGCYYAE
ANRVGNNGNIERPYYVLSHFDFDAQKSPIYELIVIGQFLGCFASLIHTGYDGLFVFTILHFSGQLHNLRFSVENNAKDC
LRKKCTKSLRPLIRAHQRLDNFVMIIEKSFNQLFLGQILTSSFLICLQGYRFILLSEVKTEVVPEISFLISYFLSIILSIFM
YCYMAEQLRIQNDELFSIFKMEWYELLCKETKLLITFMSQSKSATRITIGKFAEFSLEFFCKILKNVAGYISMILLALRD
RFVHTDLILVE

>TpreOR32

MDIIPANFRLLQFCGIWTETSDKNILKSIWGFSLITVIFYFTIVQIIKLYFFLEDLEELIDVMFLTVTYILLCLKILNFIMRR
QSVLHLLKMFRHDMYKACSPREEKILKMYSKAYNMFRILILSQSTGVFFCLLPFVTLDPENFELPFKTYQFYDDETT
LGFSVTYVIQLVALIFGIFINVSMDTMIYGFILLTSGQYELVSYRFQESISKNDDEFLLKQTITHYGMVKKTVKRIQTAFM
IVIAPLFFLSSLTLCASIFQLSQNDVFTLEFLGFTMYLSCMLCQVFLYCKYGEELKSNELEFKNNIYKSNWTSLQVNQQ
KLLTMMILANNVEAISWKGQFTLSLDTFVWLMKTSYTAFLNIHKTS

>TpreOR33

METLNVKENQKKLDKIARVFQWNRRLMSFLGLWPDSPNLLLFLVLTFGYYSYDMFLEYMDLLVYIDRPQNVMLNL
MENMAFTEIFVRILMLRVWNRQFGELLAALAEKDFEAKSYDTDEEVAKFVPFYAKAKSFMKLLISNTAFTATSFYVKP
LLGQLGPVMDYFGANGEPNSTLIFLLPYRFYVLYELDDAPTYFWTYGSYLPFVFISGFGQSAADCLMVTLVYHLSGQ
LAVLSMRIEKIDGDAKELRRHVARHAKLLRMGKIIIEAFSAIEFGHLIGATSLVCLLGYQILVCLSIGEYSVLVSLFAFIFL
VLLVLYAHCTVGESLIAESNRVCEAYNCNWDMPENARLLILCMARSQKPLRLTAGKFTDLCYQTFDTSIKTSMG
YLSVLRAVM

>TpreOR34

MERRKYRRRSYIYSLADCIYINQRKKQEKLRYSRVFEWNELLSVIGLYPGKFSFARFYLNLAYFTTAMGLEYLVLVLS
LGDFERVVLNLTENAAFTHIYAYTSLWLGNREIGQLLGQVASDFAADYTDQEIATLRRYYFRTRVFIEFLVNLFTTA
SSYFMQPFTGQMDQILGYMRGSSANSSIVYQLPYRFHAFHRVDEPASYLWTSAAAYAPFVLVTFNQSSGECCLIAL
VYHVAAQMAVLASRIRGIEPGNDCTEQLANCLRRHARLLRMGQQINKVFSAMLLVHLTGIILLVCLVGYQLLWCLA
NGEYALLPSFIVWMCLLLVSLYVHCTVGETLITESDRLHGAYYDCRWNEPPSTARWLVLAMARSSRTLTLNAGSF
STLSLATYTTSSLKASLGYLSVFRTVMQSES

>TpreOR35

MSGKFESIEEFYDQPFSLNKFTFRMSGWVWPQETKKRQMIWSFVWFCIVTVVVPEVIYLIQIIKDLTKVIECFMAL
TITYAAFTMAFNAWHNNDLSKKILEHIHANWEDLQDEHELRFISERAASRLLNVIYALMVFNIMIHTVSPLIIPAV
DWFVSGNWSRPEKNLLEVEYLVDPEYYTLIYVHGAQAGFLVVFVIVTCDTFFMTITQHSCGMFMLLGYRIRKM
DEDIFEKRCSSYATRRVKEIVFYHRDCLRFTQLLEATMSVMFLFQLFPTVIMISVVGAAQAMIRAKAIEELIKFGFIFIS
MIFRLFFICWCSQNIMDSSSLAVMSYLTNTRWYEYPESTKKLFTLMFMRCAPSYLTAGNVFTLNFTYAGMIKTSM
SYLTMILOQTQESNL

>TpreOR36

MGGNKGFSYAFGFCNVTLFIVGLWPKLKKSEKKDWLSIISFIFSLCIIVIFINIAQTTKLIIWGDVFEMINNISTANLPI
MVAVIKMFIFQYYKNVLGCLLSKAMIDWQSTKTQEQESSMYENARVVRKISMICCVLGFSSVTGHLMIRICQELDFI
PNYEKKREPMVSSYFPYDYKSSPTYEITWFFQYLGAGLATLVYSGSHCLFVGLMLHLRGQVKNLSNTRNNRTRINK
HERQDSKLFKNFIKSVVIRHNDLYE

>TpreOR37

MRKIFHNLLQLQSIFGVWTP EIENNSTVNKLIYTVNRVLIFPMPILLIVGMILALLYNNLNEDYLETVMMLLTVLNN
FLKAVGMRLGRKYLIKIEITRCERMSRLHDPEEVLEIKNYSIFLRKFFNSLHIMIGATWFAWVLPILFQKNQVRVLPV
KVWTGFDGLSDQDFWFFIPDVGFFLVAAIMALHHELVLTTVLLFTCSQFDILAHRIKNVARKATKIANSTHGIVES
CESRLIEECVTHQLLIFK

>TpreOR38

MYCIIIPVLLPVTANFILPGNHTYAKQLSAHIELFLDEEIFYNYFVMILITCYTAQVLISSWGIIYVSSAAYLVAKFRFM
GFKLKQILILSEGEDFLEKNDEIFKHVSQVLVQLHQYCINYCDVLNSITSRMFGLGLTHTIMAFVISGYVIVMEYERDKN
LALKMFFVYILCSEFLVTSHP SQMIFNSSGDIFETCYSTDWYKYSIKTRKMIHLILIRSSRPSCMKIGPSKYSNYETSGQ
LIRLSLYIVSLMSINEQ

>TpreOR39

MPPSSSKVAASKSENEKIPYVNRDYLLDTEYVVKVAKTLLTPIGIWPRDGDDSPRSVTIFWMRIVAVFSLMLCCLLP
HFTWTFKAEDLRKLMKIIAAMVFSSLA VLKYWNMIFTKKDIRACLETMEDHYRLVESEEARQIMLKNKIGRLFTV
AYLSLSYGGALPYHIIMPLLQPRVLRQSDNSSMIPLPYPSEYVFFIVEDPPLYQIVFVGQILISSIILTTNTGVYSIACIV
MHCCCLFEVTGHKLECLLDGRSYDKRAVRPDLVKRLVDIVDYHNEAIAYADTIENCLNIVMLSEMGGCTLIICFLEYG
ILQDLEDADYLGMMTYGVLMTSIFVNVFILSFIGDKVREQSELIGNSMYSIQWMDLPNDFALKNVKFIIRANQPT
RLTAGKLFDSLQGFCDVAKTSMAYLNFLRTL EIT

>TpreOR40

MTLTRSSKDENPGFHWAFGLNRLSLKIIIGIWPNEEDEDQAPKTVWKKLIALSVPLMVAGLILGIIVPQLYALNLVWQ
DFSLVIDNLTTVCIAATSTIKL FLLWNSRKLFEPILQLASDHWRRGAQRDSSRVVMLRQARRAKLFTMSGYAIMGVC
FVGFMFTPFLGLSVRIVNNVTDDLASGSFLPFQTYYPFEFHETPVYEVVYASQVLTASFAGIGFSVPDNFFGALAFHA
CAQCQLSRMIRELPVVTMAGDKGGEGFCGR LAAFVEHHLLVIRFVN LVEKAFNMIILVQTVSLTLICFLIFGSINSLES
DDNGAAIVQIFTLSGTALNLMIHMFYICIASELLA EYSEGIADAVYSYDWHLLPSSYSRQLVIIIMIRTEFPLRFTAGKFF
YLSLNAYLNIKSSAGYISVLLAVQGG

>TpreOR41

MRIVNSDTNITSKFIFKYKRHW MVINMSIEKMTHKDILNMNISEFCFYNYWNTFMLYGMALWPKIPKKLKHAS
RLSIVITYTLLIMSGGKRFRMRHYNEKQLNTTLYVDYIFQTMAMTCLICYIASMTYDHLIY SCLGKVKDV FYEISRANA
RHRMENAYKRGVLMSTIYLV MIFGCFVGLVSPVILPIFLNYIEHNNTHELALCIHIDL FINEEKYFLVYFLVALYL VILT
GMLCSVFNGFEIWWISVIIAIFEFIGNLDSIIQDLRINGYKNDNSTEICNKLKISINYHQSIKIYEMLNHNSKVVLF TI
MALLLSLSVSGSEVVLQMKIDTATTARMAFIFFASL FLLIFISYPSQILV IASEDLRIKCYACN WYEFPPKARLLLLMM
LLRTSKPCVMTAGPGVPMNYETSSKISNMAMSFVTALISLNA

>TpreOR42

MDAVFDNPNYMI SKFLLRFLGLWPTQSRLRKNLSFLAYTFIIFSLVIPIFFGMLNKNKTDLVIIIEDITGILYLLSIYTKYLSF
YVFEERMIRVYNQLVKDLEDITIKEEKAILRKHARQGRFLSIIYVGYGAIATMVFNSTPYIPLDKVFPLNETRDLLFPY
YADYYFIDAVEYHYTLFTFHGGMVICAATLGATAVD SMFVVNVKHNCGLFNIVCYRLENIGKSALS KDHALPTAHAS
DEVVYREMKSVFISHRNSIESSQIIQETLSGSFLFIFAAAMAAIAMLVFDIMLNLQKPIQIIRIGVLLVG VYLSIFYMNYI
AQQIMNDSEKVNEAACNSYWHCSPSAQKL VQLALLRSQAPIILSAGGVFDMNLATFASMIKSSASYATVLLQMQ
QK

>TpreOR43

MTTTAATKERGPSIRYKNAFSEAKKLMSWNKYLMPLGLWPSKPNDYIFVTFFCFFYYHFLYHVLLVSIRSFSLMR
IIGALMENVMTMVQVFLRLYTMRRYNKEYGKILEEFGQDFSEDNYESNEEKRIFLSYNIQSKRFIRIVVISLGLTAMLYFT
KPLIRQLSTXKKNNKRKAFTYDLPYRIYFWYKIADLNIFILTYVSQIPLLYTIGFTQTAMDCLTLTLVVHLCGQLGVLSER
ISKIDFINGTSKLIRAIKRHQELISTGLMLRKIYRVCLLGHFLGAAISICTLVYQLMSISTGQKTNLVTFFVYGFLNIFRLY
THCWAGEYLIHESINVSNAFYQCEWYKLPVEDQKKIIFCIRRSQKALSMLMAGNFGHFSLMFTSIMKSAMAYLSFLR
NFI

>TpreOR44

MTFRLCVEALIGTLVNGASTQGAQFDSQYRLEEKEKRKDRVGAAPMEIEAEYSKLTWPMRAVMSSISYWPGRE
QEEKDLGKRSSWSRLLHKCHRGVNVNASMLVLTGGSSIEIVHLGRSADINDLIECCLIVSTAYLALLRVLVFATHATSM
SRIVETMRNDWTDNYRDEADKALLRDRCLWYYKLASFYICSVIFAFASFTISPYMEIMLRKDDGPMFLPFRGYFFN
LSSVSRTFNGIYLLNSMAGFFACGTIAGASSFSLIAAVHGSAKFAIVQKHFSVEWTSRQQVKRCVRHHQDCIKFA
DDVEDSINILVLGQFVMSTCLLCLAGFQFTTMLRDRGRCKMYSFLQAATTNLFYSIAAALQTESLEVAEAFRSK
WIGSCSSYEIRMIIMRSRKACKITAGKFYELSLESFLKVLSSFSYFTVLFTAKYDGV

>TpreOR45

MCEVVTIDWLGISDPEEKDTMKVVCKRGSRLIFIHFGVLLPVFACYALGPVALPYVLNPYLPENMTLQKTLCVHVEL
FIDQEKYFYIILAFSIHILTLVMLIICALDLAYTSCITYVMGKIIWIGYVFEKLCEIKTSNQNLAKRKIDIVVHQTIVIGLIK
HQQCLEFSQTLNDACSPKFIIVMSGFMICLSLGSMAVVEISYDAISAAKMAVSFVLILVIVICYPQQLLIDASNEIYF
KCYCSKWYEYVVRTRKLLILMMTRAAPCCMTIGPTMPLNFETAGVVSNDRHKISF

>TpreOR46

MNVNFAPIPFRLVLCCLWRPLSWTSWKKMTYSGFSLVSLMIVIITALLVLIAVCQMSFNDDLFAENVFLMFALIN
ATSKAANVLLFRGRFIALLNMVASERWSKLRSDEELEIRAKCDKTIRKISVYFTTAVFVAILLRVIAPLVDLFVKGEIRLP
VNAYCPCDIRNPSCYWMLYWQQAIGTGIIATLIHAAKDCIACFLLQTCSTYLEILKRRIVAIPGIIASERNCGNSGNIQE
MEKRLISGCVEDHDNIFLSKILNSSLEVMLFGQIAVTLPNLCLSIYLLSTQNIASMDFVMTIQFFSAVVIELFFFCWYG
NQVTLNSFDVEAAISTMDWTSITVQSQKFLQMMVVRTARPILFRVGPIMDMNIDSFLSIMKTSYSAFSVLQSTKE

>TpreOR47

MHSLVRDIIQNVEYEILPYQFLLTFWGIWYPQNWLSLWAANIQKSYFVFISFLDIIICTEMLIFFINSFGTSNFKLINFF
FVSANITGVYKAIKMLNLRKMIREFLLTYFDADWRTPKDKIEQKIHHDDINAKIKRVTLIYSVSMGLGIVMMKAMSPLT
GSNSVSLPVEAWYPYKVEKTSWYWLTYLHQCILGSSAVCAHIGIDTLFMGLLLKTSYQLEVLKHRLRSLNISLLSLNGK
GSTLSIENEKMLIECIKYHQRIYSFGKKLNDKFQDILILVVSSLPNICINIYALSTYTSRTKIDIIATLFACTSAFMQFFIAC
WFGNEITWNSINVRDALYDLWDWTFNLDSQKLFIFIMTRSMRPMQFKIGYLLSLNLSFIKIIKASYSSFNILQQTTH

>TpreOR48

MNVFKSEYYKINYYLKLGLWPNNHSRKKFKRITVIFLIVSLLIPQYIRLFEEWGRDVIDIVELIGSIFYFTGSQMKYM
SFVRVESKMKFIFEEISRHWNTLTDAKEQKLLRENGRYGRIIALGYIIPINIILVVYITVPLAPAVLDIIDPLNESRPKAFPY
FAEYFIDDQKYFELTIHGWIWVILSVQIYATFDTTYQLCMQHVCALFSIVENRIREANKLSWRGNSDSDHKIQMRD
RSYERMIQAVVLHKEAMRFIGLIEECYTFVYSYVVLANTLLLSLTAVDTMLNFEKGNFKQMIRLGMLYIGFSFHLLYN
MNPQGQNVIDSSVHIQEAFAHTNWDSSSKTKQLLRMIIMMSWRPCKLTANGVVTLNLETFAFVFKKSISYVAVIGS
VR

>TpreOR49

MLNDQNSVDSFYDSTTYHLNKKCLILAGGWPFLNPRKRKTIWLAINFSLFIGFVAEIIYIGEIIDRTTEVINCLMVIFCAI
LAFCLSINGAVKSHSMKRLLDSVRENWNDLQSDDERNIFSKYANYGKIFTIGLSVCYYLVLLCQCVSPLPPMLHYCIT
GNWTDPERNILDVEFFIDPVKYYWPIFIHGATSTVAAVWMLVAYDLFFVVVVLHCCGMFAVLRYKIKQMDIMLYR
YSYDQQLVLKKIEIVMYHLKCLEFAQKIEDFFCIQCIQILVNTIVISVCGSQVIQLADTSPQESFKFAFVGVSOTFRLA
FFNVCGQIVNDQSLRVHDQLIYTTWYEYPRKARKLFVILYNRSAEPCNLTGAKMVNLNLATYSMLMKTAMSYFM
MIIETQ

>TpreOR50

MSDDNLAGYEEISAIRFIARINGLWPFDKGARQYQCAVPACLIIFFIIPQTTKAIYSRNDLDTVVEVLSTCELIEIVVLL
KLFGLLYNKRDFQKLLTQVEDDWKISFEYEQKIMWSNARFSKLAAIFCVIATAGSVILHSFLFLLSVNSINKSEYNNST
PVIYQLFIKSHFPFETQNSPIYEIICFSQFSAAFLSTFVFSTFDGYFFLSILHFSGQLYNLKYNVYNLITQDSIQNKSFTRKL
AVVVCRHRHIMSYIDLIENNFNLIFFLQIFSSTVVLCMQGYQFVLIISQGTRLFTSIVFIIFMCCSSIISIFVYCYIAEIIRTES
DNLLYAVYEIDWINLKSRDANLLIFMSRLILPVKITVGKLPFSLEYFTTVMKTSAGYLSVLLAVAKD

>TpreOR51

MCEVVTIDWLGISDPEEKDTMKVVCKRGSRLIFIHFGVLLPVFACYALGPVALPYVLNPYLPENMTLQKTLCVHVEL
FIDQEKFYFYILAFSIHILTLVMLIICALDLAYTSCITYVMGKIIWIGYVFEKLCEIKTSNQNLAKRKIDIVYHQTIVIGLIKR
HQKCLEFSQTLNDACSPKFIIVMSGFMICLSLGSMAVVEISYDAISAAMAVSFVLILILVIVICYPSQLLIDASNEIYF
KCYCSKWYEYPVTRKLLILMMTRAAPCCMTIGPTMPLNFETAGVVSNDRHKISF

>TpreOR52

MNDNEKGFDECVGVVRAIMGLIGLWPMKEWKGFQKFQTTIGVLLILFLCSLIPQVTQLLIGDNDNFNTVIEILVIMVLIE
IVTIVKLFALWYNNNEGKHAIAIQIWKDWQVSTESEMVMKSNARKTKFISIFCISSTASAMSYATQFFVAVYTDEI
YVNATHLRPYFLQAYFPFGSHYSPMYEIICCWQVIAALVSLVFSSFDGFFIFILHFSGQLRILSKMRMRNLVEEYHSEK
SLFPKLLESVIRKHLFIIRNTDSIEHNFNKIFLTQIVTSFLICLQWYQLATILTDNGPIDVGNLIFIICFVVGNMFSIFMLY
FIAQKIHNESKRLLHSVYEMTWYELSPKYSRLLILMNRLSLPIQITVGKFAPFSLEYFAILVKTCAGYFSVLIKVNKL
EN

>TpreOR53

MANVKREKGFKVAMGIAESIMRFSGIWPGVEKPKINYTRFTFIPVMLMILFVNIPQTIQLFYFDGNLSAILNVLT
ADVPIALVKFLVTSYNHQTNLKLLVLLNDDWKHVRDASDIEIMWQKAKTSRKVSKICMVLSAGTVFAYSGRMLY
VLYISTLTNSDNDVKQIVRPLYFSAKFFYDTQKTPNFEITWILQMIAAFLSALAFGSIDCLFISFILHLCGQLVILQRAFE
KIGSDDVLTANFDYTIKLIKHNHRINESVHYIETSFNKSILFQALSSSILFCFQGYLFIIILSTAKDTEALIEVTFMLYFTT
CFMFSVFIYCYVAEFLVDESCLKNYSIFYCKWYNLPVKSRLLIMCLLRVRKPLQVSAGKYVFLSLNLFCHIVRTSAGYI
SVLLAVREKLFIQ

>TpreOR54

MPDQADYSFAIGPCRTGLRIFGSWPDPIIPLTQLDIFRSIIVSLTILIFGFIPQLSMAIIVANARDWNGVIEILTTATVPF
VVSILTGFNVSCYQRNVKLTLTMMKDDWNDYHLDADLKFMQENAGLGRKISQICLFLALSVPVPHCLTTVIYFVN
WGEYGDLCCLISYFPFETNRRPNYEIILVGQCFSLIFGASTHAIDGFFSILVLHICSQFKILQRQLSqliENCRDAQHEKS
FFEMPLKIIDRHDQLNRFVSLIDDSFNLMLAQIMATATSLCFQGYQLVMVTSASENGISVLELTQLVFFIGSYSSSLF
VYCYVVEKLNYESYQLVNTIFSSGWYDLPSSVTKNLMLLMCRAQKPLEVTAGKFCYFSLEFYCRILKSTGGYISMLLA
VRDRLAENQ

>TpreOR55

MIFNLNALGDFLHILEDDWKRYKTAKAEKELKMEENAKTGRFIGLMFASFMYTAGLFFNTFIPIATMRAINRNYQT
ETLRQSDNNDITHVLPPIAKVLIYTVHSSVMTSSSPKYELLFLAQYFFAFLRYTIMVGICSIMAAYVLHVCGQLDIVIMLL
NQYIDNTNTDKTIHLDCTQRKKLSIIVTCHARALRLAARIEKTFNFMNLVDFIGCTFQICFTGFLVMTLGGKPLIWVT
WALLISFVFNIFIICHIGEYLTQKCQEIGEIAYSIKWYDFSSKRAMNLMNIMIISSTYPTRLTAGKMVYLTMTTFSQVL
SKDY

>TpreOR56

MINADLEQELMNSLLTDPRAVAVNLSKKEIGDIVNKFMEENYCWVKKTLQMAFLWPYDSAKRKYAGRFFILFNIVH
AFLSNTWTVTHKTFRKPIDFEFLIANLFEWMVVLVLMAYTLMILKGLDMQIFFKLSTLDMVNIEQDERIELEKICIR
RQYNLSRIFGVLIASFVGFVFAIMPGLFPVIGEFLIPYLDGNFTFKKTLCTTADLILDRDDYFYLWYFYTWVYMAVQAT
VVISIAMSFYIVSYTEGKFNIVGLGLHKLKYEFTSADNFVNKKVDDKIHMMREHVHINHFRCIEYCNHVNIRSRSLLF

ILWSLILASLSFTGSM SVLIHSNLIVFLEMSVSFGCAVSLGFFISYSGQIVTDASGSLYEKAYNCGWYHFPKRSIVYVQL
MLVRCIRPCELNAGPSVIRLNYESFSVIMNTAMS YITVMVSLV

>TpreOR57

MAKDWHRISNEEEKILLE NVKFARSMTIFCLIFMFGGGITYNTFLPY SKGEYLDNVTHRYLAYPSYVGFFNP NVQ
EFSNEIYLVEFGGSTIVICLLGYYLIVDIERMDTFGLLTHSCLFVSITFNIFICYVGEILTDKCNKIGQAVFESSWSELPPA
DVKKFILVLAVAQKPVFLTAGKMITLSIRSFTNVLKASATYLNMLR TLLVNNN

>TpreOR58

MLVLPFEIWFSIEH MNDIDKLMECFGILT GILGYGSKLLMLRLSWRSVSSLVQIIISDYEATREPALRAALLKNYKIGTG
VTKLLFGTYTSLAFFIPIENCIRIARNGYTPSLLYSVPTSYP MIKKTAKNHIMVNFVQLTQVIVAGSGHALCDVFFTVLV
MHA AFKSLVLR TAIKRYFEVCTRQKKDLKVISDAMN RVILYHREFLKFTQIFEDAYCYV VFCQIFCITLQTVGSGYILILL
AEDQKMWSVEFLKYINFIMVDVFSIMAYCTAGEYYTHQSIKIYEQLCKSSWYDLSISEMKS VLF LMIHTQKFVAITSG
KFKNLQLDCCTS IMKGTYSYLSMFRATRNRD

>TpreOR59

MKRIDYQFDLRVFTIEETKKDWICSELKFIIHHHNNLLQLHKL AQKLLSSIFLVLLMGIAFDLV LIGTWMVILL DKEVIE
ALKMIMAF LIIQFTVFTMCIPSQLMSNASYDLFVQ NYSTNWKYPPQARRMLVLLIAGTTRNFEIKAGPIFIMTFETC
SSLIKLFQELKKDNVDSNTVVECALQISVYFRHLQGYIFISTNFDMLKFLAIMNHIFQNN SKLGQKIIMHRVDKALN
LSTLQSVAFILMCISYVITPFTFQTFLSWIFPEHYMKRIDYQFDLRVFTIEETKKDWICAELKFIIHHHNNLLQLHKL AQ
KLLSSIFLVLLMGIAFDLV LIGTWMVILL DKEVIEALKMIMAF LIIQFTVFTMCIPSQLMSNASYDLFVQ NYSTNWKY
PPQARRMLVLLIAGTTRNFEIKAGPIFIMTFETCSSIFQSSMSYIATFKTMYTAF
Q

>TpreOR60

MDEIEKRYETLSKESLRFLGLWPTQE KSKRYKGFALVAFFMIKLTIPQFLCIIVNPDDKFIFFENTMILTFYIMVSSKHG
AAMVNF SKVKALMLSIDELKKPFTDPHELELMKKYEGQG FLLARIYAII MLITVLVYNMVPFVPFLDVIYPLKSGPRP
IILPYRGEFIWFKQEDYHYVVSFAIFDVLIFLPV FVGIESVYTTT VREICGLFEIVCIRFQRQFSRAEGSPTSEISDAVKLY
NECVRCVQFLEG TYSITIFTTQITSLIFSLCAIYILVNN DVFNGLRFSTFGIAILIHM GYYFGIGQLLINSSDKVHFSIYSS
NWFLASAKLQRLVMAS TRTLYPCFITSGKLNPLNLESFGTILKRIASTISV MLAVL

>TpreOR61

MYNSWE EYLLCQCLLLLLLGYLLKKTDFDYKCMVSESEENAHHFLTQSFKYFIQQHQRCIKLYEILYFLTERLMFVIM
LGSSALLIAGSTMVVLMDSHVPM AIKMFVCCWAAMIVILFICVPGQLLSNAGHEFFIECYCVNWHGYPPKARVLL
LLILVRTKKPLVLRAGFLADLSFETCSSVLKKAASFVTALRSIY TAF

>TpreOR62

MIIQSVDLGFHEFPMQFFIFTACGVWCPSDWSPSLKKLYKIFEIFQIIAATWFWLTMFMNLLLKN TESDLFYDNIFAL
LVLTAA YKKYFLLKNRKVISKVLSCSDDSWYQPKNKQEA EIIFENETRLVTELYALGISTALAIKAVIPMLKSKSG
LVLPIEVWYPYKTENIFIYLF SYLQQLIAGIPMICLQISVDSFFVCLVLRVVTQLNLLKYRMQFSSNNFISKGQEVTTAT
GIHKNIPMIDTWLRICSRKHAKIYEF AESVHKCFKSIMAAQLIITIPCLCMTVFI LAQFDELGFNFVDKFFCFATCLMQI
FLYCWYGN EIILES LDVENS IYHMNWIALQSKTRKNILMMMLRARRPIKFTVRSYVVNVAS FIEIKTSFSAFRLQT
MS

>TpreOR63

MLIKNSLEHQVLPVPFHLLTLWGVWCPENFNPSIKKVYSVFTIIVLAVQMSLT LGVSILFVMMISSKNFDLDIFFMM
TSLINGMYKALNIFYRKRILSLLTRGFEDRWVHVP RDDYEKYLEIYFNESWRTHLIYAVACL AGVFIKLGPMVKYDT
DLKLPTSPWYPYNTNETVYFWVSYSQQMFVGGSIISMHIGADTLLSGMILQSCVQLQLLKHRLRSFSKHCIDAHRYL
GTKLSKSSIESVFLRQYICDHQLIYTYLKMINHDFSGWLLAMLAVVVPNICINVYLLSFQKIGMNVDFVTTFGLLSISLF
QIYLP CWYGN GVILHSTEITNAIFEMDWD T LSPFTRKALIIMMMRSLKPSKIETAHIIPINIKALLKIMKTSYSFSLVLQ
QM

>TpreOR64

MDELARMFEAKETWRYIILIEKLAGCWPYQYPRVNSIVRVFNGVMLVSLLPVIVCRLLIELNCVDMDIQLVIENTFVS
TILSGVLKIFIALYINEKQREEVYQKMTFKTLKITNNKETQVMNYHSRAAPLFTKILLCVGLTTMMFETIPLANMNLE
YYLQSNLTFKIKQLPMYAEYFVDQEKYFYALLFHMVSSWVAVFINISFDAFVLIVHNHLALYKIVSMRLREASKND
DDNVCYCKTISYEHETRGNIIINAIEIHQTAIEITNTIEKAFSVPLFLLTVQNMSTFGGLLVLMTTVRDPVELFRYFVTF
AGVLSYFSLFAVLGEKVITNSTAIFSESYYTTNWKNHSLPLTALFRIIMMRSMKPVDIKGGSLVLGMQTLGQFFQQS
LYILFFRLFRRPA

>TpreOR65

MIIIDLNLFTLMTIAGAWRPLDQLSVKYRIYTVTRFVLLPLPFIITGMILGLILNNSDKDEMYTTLLMLTVENNTIR
AVGLWMNRKHLVQLLGMLASPYAQPRGKSEIEIEKSYSEFLRKFLNLIYVWVGGTWLIWVSPFFQKKDHRNLPLT
VWLPHEGPIPDRIFWWLWIPDAASFLISIIIGHDISIATVMSFVSCQFDLLAHRVRCMTMEAKRRHRSSRSIEAC
EKEVIVENVNHHRYILEFADLLSKGYGCSMIFQFSNCFIQLTANTYLLASTTTIDVQLLMRLIFLSCMFLQSSICYFGD
HLTNKSRELTALFTANWMDLCLRSKKDILFMTARTMYPVYIGKAFFIVLSLNSFVQILRISYGVFNVLRT

>TpreOR66

MNFFQVFVVKFIAGMFEMLGRDMARIHEEIESSAFMMNKQKIYKIINRKIRDNIRMHQEAIELFVGLREVSQKKF
LIIIVILILELCSTGIWFVIVIPYNKFYAAKMAFSMVTVMILLYIYSSEDIYACNQLNSMCYDTKWYLLSVKEKRLILF
MILRTENPCTLMAGPTIFMNYETFSAILRFTLSYLMAFYRIMEQSSYLN

>TpreOR67

MSSKVKKVWKNEDGYLRAERMTRSILLSVGLWPLQKDYPFRFLRNFLVAICVALSLFMMIPLGIFIYSDAPNISVRLQL
SAPLLFSALCMSKYANLMWKGPKIESCLRRMAEDWQNVKDPLESTMLDYARRARSMTKFCMALTFTGGFLYST
VGPLSRAPIVVDNVTLHQLAYPGNFIFFNPRTRPAYDYVFALQSLGSVVRFSSTCGVCSIFIWFVMHISGRIDVLGSI
ERAVDQLDNRMMLKRIVDDQLNLYRLAKELGDIFNELCLVEFVGNTVLICLVGYMIIALLQHNYTRAYTLAISLSMT
YNLFILCYGQILMDKFDELGRSIYMAADWHKLSGSNARSIVLLLVRANRPFALTAGKIIVLSMASFAKVIKTSATYFNV
LWNITSHSMNAQ

>TpreOR68

MMSDTMENKELEAGIKMCRIEMEILGAWPDTKYNQWYLKFRYLVPIFLSVFFINIPQTRMLIIVKNNLDDLLEILTTA
DLIVFIALIKFSSILAKRKDMLVLLNKMRIWDNTADRNHKYEMRKSILFSKLLMSCYNVCTSGTIIIIAASRFLVLRQH
NEETRCNNTSMKPMFIKSKFFETEYSPMFEIWIWQFIAAFVAKMAFVTDGFFIFSILHLSAQLINLKIDFRSLPVEE
SGQNFTQSLKCLVQKHWDLKKFRTLVEENFNQVFLVQMMCYSVTLCLQSYQIVTILTGESEKNSATLEFIVIFTISNIL
SLFMYCYMGEEKLSTESSGLHYAVYEIEWYRLKPSESKLLMIVMHGTTKPLVITAGKFTNLSLSYFMQILKTASGYLSM
LLAVQDRL

>TpreOR69

MTEATKSIPIENTWDFTTQAELSELSRQLDFEENHFYWLKKFLKFVFLCPVQPKIIQKSGRAMMHSTFIFSITVTCTK
AYKELFVNEIYPPMLAELAFQLIVLSTTYIIYLQAIGMEKEVRIRIQSLKNPNPNRMCEIITDWLGINDPEEKDIMRV
VCERGSRLFIHFVLLPCFMGYAFAPVALPYILNRYLPENKTLKRSLCVHVEVFIDQDKYFNFILCFVIHMIMLVLLITC
ALDLAYTSCITYIMGKIIWIGRVFEKLNEVNIYDQSPSLKQKANIYIHQTVIGLIKRHQKCLDFSQTLNDACSPKFIIVVA
SLVILLSLSGSMVVELSYDVSSAAKMTVAFTVLLVIVLVMCYPSQLMLDASHDIYFKCYSSKWYEYVVRTRRLLILM
MIKAAEPCCMTIGPTTPLNFNTAGKIIKTALSIVTTLVSLCAL

>TpreOR70

MLLVQFQVSVLAYNSMYLVDGVNLIRDKRLNTEYVCQLMLIENICIRYLMFMLQRQNIARLMDKCQRLWTRLKSN
EVWSYVRPFERRVYFYRNFSLVISYLVIVLFAVAGSQLTHLAPDRINGTARRKLPYSYYYDVQEDPDFSIISGIQGLILCYT
AIIAGIDTIAPFLIMLACGYSVTLKNRLLNMAHKDDKSTKVNNQLIYGDVIECAKFHREIMSYCQDIENHMRSFHM
VIMICNVYNMSLIGIQILQNIIEYFFQYSSLLAMHFMQLYLSQWAPDHLLHETKAIGNAAYFATLGHSTYNHQANKIL

QIMMLRAHCKPVQLTAGGYIKLSMETFGKVNIFLSIKTVEKFNAYTQFFSDDNQCGFYVYSCSKFYFVKIYILNIIFIF
LVIKQLEFHMHEII

>TpreOR71

MGFKLNQISNFSRKKDYLEKNDEIFKRIYELVQLQQFSIDCFETLNKFINPILVLGVLAVIIGCSASGCLMVMKFNEDL
NVAMKMGIIYSLCSEFLFVAAYPSQKIYDACNEIFDNCYCTDWYRYSIKNRKMIKLIMMRSSRHSCIRIGPSKILNYD
MSRKIIQLSLSYIVSLMSIYKL

>TpreOR72

MTRLLHKVARSWPPDEKNHRHGILRKFLHVSPPIICIVLYIYNLSGFMARTVEDILEVINFVSFTTATGRNFLLALT
PKIHALVSKTIEMEKTRRADELSSIQCQIMKKWRNIHDKLTKFSIYGVWVGALMYLIPPIFFSKLPFPGYSTKGLEESK
WFYAIYFLQLLACIFIPWISVDFYVCTFLCTLCRELDMFYDAMQNIRDKDRSYLYRVIDRHSRILTYGMEVCDIVSY
SFGVVHASYGVFLIFGTIAMTQINWSTHGGLAIRNIITMIVCASSLSLMCFIGDLIQDLSTRLGDCIVLDNFLDRRKDR
KYLKLEIVHARSCCSLKIKYSPNMIVNMQMYSVTLNLYSIYTFALTVMA

>TpreOR73

MVFCWFAISFNNLQCITIGFIIAHIHCLRYYLNEIDIEFEQNEKRRNISEQKEVDKLIQLIHQHQSCIKLYENLDIMGK
PLFFCSITTITFNLVCCGTAMVILLDSDFSGAAKMFIIYSCSIISFMLLCVPSQLLSNASYEFYKESNCINFHKYPPKTRVI
LLIMMMKISDTFVLRAGPIYELSFETFSVVISSFQLQLKSQN

>TpreOR74

MQSISSLLFTKRIKVREKNMKSMGCWVPSGTFVFEYLRVNEKLYRYNFLWPDQSTTLKFFGRSLFLLSLLTYQIPQF
MHSAINYQQQKITIHSAIENLLGTFLTFLNFIYVLMQHQETFKYIHVVLTKHLSDCDNYQEKLVMERIFSSKTRHL
QKIMIFFWTLLSMFILVSAPIPALINAITKKETLTQQLCFPAEYFVDFDSYFWLLYIHLICIFFQCLTANAFDITYANNA
HYIAAMFGVISYRLNRLNRFRNPQLTSRQRDEYIGRELLEIIDKHNRVIDVTAKINRAYAPMKMFSLMAMLMFIGE
VGFMLAIDFGNVMTHMRFFIALAGLLLYLRFICWPGQTLIDASLSVFYSSYMNDWYLFTPKLRYLVRGIMWRASKP
CVITAGPFAVISSETFYWVIKSSYSYMSFLMKMDGESF

>TpreOR75

MLCTSGELYPNREDYYYFWLAYTTFLMFASIVVAQISLCIYFVSINLSKFEVVVYHLERLREMSDQSDENDPNEIEKI
VKHTCANHYETLNNFRLFQIFSRNVLAFLSTYVFVALSTTGTMILYAFKIKNTFLILEMIVSFLCILCFAFLMGHIGQILC
NASDNLFYQSYFCGWYNLPKESKKILHMMMTRCLTPCELQSAPLSFMKFNYENFNNAVNTSISYMTVIASVM

>TpreOR76

MLEDQKTENEFFDSPEYHLNKKFMTVVGGWPYLSPPKRKTIWVFNVTFFVTVWVSELIIHVIIDRTKEVIYCLMAFL
CTFLAICGSINAQVPRSNKRLVDSLDRDNWNNLRSDDERKIFATYAHYGKILSSVLAVCYLVLGMTYIVSPLIPSALHY
RITGDWIAPTRNVLEVEFFIDPVKYYWQLYVLLVHMCMGVVSLLANDTFFFMMVVLHCCGMFAVLRKVEQMDK
EITFNGYSYNQQLAVKRIEIVMYHLECLEFANKIEDFFCIQFIVQILVNTIIISVCGSQIIQLADQSLRDSLLFAFLTSATI
FRLTFFNVCGQGVDHSLRVHDQLIHTTWYECPIKVRKLFILYNRSAEPYNLTAAMINLNFVTCTQLLKTAMSYF
MMIIQTP

>TpreOR77

MNRKSIDLSLNEAGYEYAIGYTRNLFPFGIWPVRDYEESRGASRARAIAANFLCLFILFFVVGPPYFVQTFLEKDNQVR
IKSTGACVFGITNVAKYLVFLLRGHRIGSCLAEMHLDWRSITNDPQRRMLLRNARAARLLTCCSFVFMFGGGVPYV
TVLPLSQPPLLSADNRTLRLHLSYPSYFGFFEPRVRPVYDLVFSVHFCFGILAFSLTTGLCSFIAMCTLHVASRCAFVSA
MYRELGRNFDRELLSRVVLQHRRIIA

>TpreOR78

MYMLENQCKSKTYLEHDEELRKAREGCDVVEECQLRNLEFLNRERCYVFRCDVGRANLKRLELSCVPQVKIVLIAL
SGLINKNVPGHELVEATVYSGFLLCVLSIYALSFDKLIASSIMMEIWKEFREEDERSIIIEKLQGTISMVLYSVIMYTI

FVGCSLQPEVKYRAISWISVNKTIEKDLFFPIYFTKQLKDNYYLALFVFLVGLMLGTILSIFNYFQTTLWKFIVASLLLI
GLLNVLQLFAQQKYFIVIIIIELTLAGFWFLYVISYDKNYALKTVVWMIVAICNLFYIIHPGQELINANNRLWGGCCN
CKWYIFPAKERQLILLMMIRTSKPFLLTAGPIIPMSYETSAR

>TpreOR79

MELYDSRYFVINKKLQKLIGVWPFESRTRKNFCRTFGFIFMFIGVIPQVIALDVARRNKDFDKITQSFATFLVLAISK
LVTSIMKEEQMIKLYEEIVNNWNQMKEKDDKKEMIKHAEIGRFMTICYAAYVFNALIGFITFLLPSIMDKISPLANG
SRPRIYVLEGQYMVDREQYFGIYILEAGVCIMMVVIFCTCDTAFVCVCEQSVGLMSVVKMRLKKATKYGSQWEKT
DPNNTPYALVKKLIVFHQKVLTSVEIVESAYSFYLFALMGFNVFILSCGSLVIVANLDNPMETLRYGMIFIGLMIHMF
FLNLPQQRLLDASSDLHCNAYDNEWYECSEQTKQLLLFIMLKCKTPCIITAGKIVIMNIQNFILAKSAASYFTVFASF
R

>TpreOR80

MDFEQLKSWNWVKFLEINAGCWPFQNPKNLYIRVFSFMAIVTVYIPLAIKLMLSLDQYQEIVIENSFLMIIHGLFA
KSIVLYLNEKQRGDLYREALSHLDAMDDEGEKEILRVSSSATKWMMLTYLFTTITLGSFYHIIPLAHIHMNYFLRANAT
PPRQLLHINVEYFMEDEDIYIIIGHFLIVFVFGILFFAHDLGFMALVKDNCALYEITCYRLRNCSSRGSSDSRRSQGL
ADDEIHANVLRANDMYQLAMSITDRIEKAYNITWVLLVQNMSSFGTCIMLLYIQEDPIEFIRYITVVGSLIHFQTIF
YSGQKIIDSSQAIYHACFHTDWFTFPRRTRNLLIIMMMRSAKPKLTGGKAFILCMSTMROFVLKGLVYFLVFAVE

>TpreOR81

MYIMYYLKYGLILLDSWPGVDSAKLCNALVALSCASLCFQFWDAAAVFHDLDALLTNMETSIGVLSSVFKIVTFRM
QSASTKKMVKMSIEEHVEKNAANPNSTGKSKSNENAVKLILQILFVSYFVLGLSYPVSLVSYALGSSEERVFLP
SMYFIPSPRESPAFELLWIYQFVVVLFVVLGQCIADSSLIILNLSIENDLRECSFYNFQEQEQLVRYMLVRAQNSNTL
EIGKFGNLSLFSLTMVKLDYFNA

>TpreOR82

MNPEEAFSVYRSFLWFLGVWPLEEKSRYQRLRYTTAAFFQASFLHTSIEICLNRSVSDMVDVCLFFASAFALIKH
TYLHLHGRKAIYNLRSYMRDWRQPSEYGSAMRSHFKMYRYQFIYNSIGYIGTTFLIRTLNLYLKDRGQARDG
PEFEYEFICKISFLSKPFLRYHTGLLVQLYLCMYVCSSGASTDCFFGLLLHLAAQFKILNRRWHDGFDASRDDQAS
FDELVARHQLLTKLGQHLEQSFSRVLLQLLISVILICMSGCSILVSMMERDYVTMLISTNCVSFMITESFIYGYASDYL
KSQSLALVDAVAACGWYDLERARRRDLAFVLMRALLPCSITAGKFFYVTHNTIVQLVKTSVSYLSVLRMTIEHSRKA
DAN

>TpreOR83

MSGFYIKATWSYRVLSFLGKSLTIWPLDRGQSKGLGLLNCFWVWFYLLNYVAILVPTLYGLYINRRNIVSASYSWIES
TVFTEATAVMIFSRWQSRLESFLRLAEKQLAVKKRRVVRFYANYYAIVYLATLAFYVCVMMYIILEKPKTGNNELA
LSASYPFRLEDNPIKWLLWVNQAIVFVHAYIVANFDGIAVFLIFTCTDRLKQLDKHFRDSRSYEHVACVREHNDVLA
LIKDTNRILRFMVLTAAFFMSYVFGAGLQILNNTAQTVMIHQISILFLAYARLYLCAESANNMSAAGRDIAMTVYS
TSWYDETPKMSTAKTIIQKCQREPVICVSGLMSALDRRYLRGIFSATISYLMTLRTIVGSK

>TpreOR84

MATQTTRAELAELSRQLGFEENHFYWLRIFLKFVFLCPVQPIVIKKFGRFIMHASFLFSIAITCARAYKEYFINEIYPPM
LAELTFQLITLVGVWCYVLQTIYSENLLNKICEFVTIDWLGKDAEEKIMKVACERGSRLIRIHFGFLLPSLLGYALVPV
ALPYVLNPYPENMTLERRLCAHVELFVDQDKFYHILIFLIHMVILIMLIVSALDLAYTSCIAVVMGKIIWIGDVFEKL
GGIKISDQSPSSKRKMNVYVHQTVIGLIKRHQKCLEFSQMLNDICSPKFFISLVLLNLLSLSGSMMAVVEISYDASSAA
KMAVAFVMILIMVLVISYPSQLLIDASNDIYFKCYTSKWYEYVVRTRRLLIMMTRAEEPCYMTIGPTVPLHFETASTI
INTAMSYVTTLVSLCAL

>TpreOR85

MESVGDVVRVKEESKDTWPDAGDDQNFDSDLDFDNFEARNVETFLGYKSSMVVLMDSDAVMAIRMLVISCATLT
VMLFMCVPGQFLSDASNELFTECYCVDWHGYHPKARMLLALILVRTMKPFILRAGFLADMSFETFSSIIKVTEENTKE
YGFSSSLFIEDLFQVIASLMMIYVYPFMIWKYDRSYEKS NRFSLVITMLFIPITVTFAPLVIPLSTQFLPGNQTFQKA
LPLHVEFFVDEEKYFYHLFALQFITIMYFTIIGGLNTFLYSGVG FIVGELQYLQYYLEKTDSCYSDMVSECRDIAYNFLT
KSLVYFIQQHQRCIKLYEILYFVTESMMFVTMLGTSTSLIIACSAMVVLMDSDDESMASKMLVLCIASLSVILFICVPGQ
FLSDAGNELFTKCYCVDWHGYPPKARILLVLILVRTMKPMELKAGFLAVLSFETFSSVL
KKSMSFVTAFRSIYATL

>TpreOR86

MTKDPRASDIQHFEWAFGLNRFVFGMLGVWPKKRPNDSDNSNSSFMSTNVLVIPGMIVLLVGGLIAPQMYALSR
IYDDFTLVIDNLT TVNPCVCAVMMLYFLWSNRDSVARITKIIELDWLRDVQRSPGERLTMLRYAGYGRFTTSLGCFI
TIFAVLCFVVT PFLGLSFRLINNRTDQVGRRRRIHLPLQSVYPGDYLRSPYYELCYAAQMLGGCIVGMTIAATDNFFAA
LTFHASARCRVLAERMAGLALIGIAREEEFFRALGASIREHVRIIRLVRTIERIFNQLLTKLICMPLVVCVFGLELIGSFG
SESIRLTTLFAQVGALVTMVFHALIDCVACEVLMKYE HQPSRLRFRVVRFTRALCEMLHSDSHTAQVSAETYGW

>TpreOR87

MSEKNQEELGLFDTEYWTITVKLQKVIGLYCFQSDRRNCISWIYVFVFTLSFMISMGVRLINEIGVHIEIVVENIVGE
MYLLAVFNKLVISVLKRKSFKKFYAKVADHWRMIEDAEELKIMTDNMRNGRDVVKLYSIFIIGTTIFLSMPIFSPLLD
YVVP LKNATRPKALPYAEYGV DIEEYYP LIAQAVFGGVGTITVLVTFDLGFMMLSHYVIGLFALAKYRLSKVNTLM
RKIEERNGNPWKSNWPPIYLEAVNVHRQALAYVAELED CFNIAWFITLILNMMMFGGGMAILLLKNNPEDMFRY
TMVLLAGFMHFYIFLPGQEIIINASEEVFDVCCACGWYNLSEKSKFLVQFIMVRS LQYSFLTGGKMFPLSMETYCN
VSKISKG

>TpreOR88

MTSAMLFYVIMPVAPTF FENVFSRMNETKS FDFVMKGEFPVNNMRDYYFEIFIDMLVCVATVFVLGAVDSTYAA
CTEHCIGLFGLLKFRVLNLT PKISQNYSDMANSNYDQDDATYCINRNYTLLLSFFPRFAEILKTSYSLTFLILMGATVIYS
SLVCTLILLKGDELKDRLRYSGIFVGLLIHLFYISWPGQKLIDHSTGLFDDAYTNKWYECNFR TKNLLRIVRLRCLTPCQ
LTASDLYIMNFPNFAAVLKTSMSYMTVLASFI

>TpreOR89

MLRDQSCERDTFFNGPSYHLNRKGLILCGGWPYLNPRKRKIIWWTINLAIFTAWVPELIYIIEIFDDAQKVIYCTMAF
LISYLAFCASVNAVNVNHN SMKQVLD SLKDNWN DLQND EEREIFEKYANFGKIFSIGLSVCYFGNLSLYFVSPLIPSM L
HYRATGNWTTPEKNFLEVEYFVDPVKYYWHIYVHGAQAGSWVVCVLTAYDSFFIVLVQHCCGMFAVLGYKIGKM
DKEIH DYRHDQHSVVEKIEKIVMYHLHCLKFAKKIEDAF CMQMIQQIMINTIIISVCGSQA IKLADESKQESFRFAYLA
CSTIFRLTIFNILGQSVYDQSLRNIHQLVRVSDGDEEIIHNPLQQKRALQSHGCQDNLPESYYLFEANENG DVL FHD
DYPNVMRCLFLMIKAQAIIRH

>TpreOR90

MGLSFGCFLSLRVHFHYLCRNKMSPNEVFDNKYFRHNRTLLKQVALWPYASTSSKVVKRIFIIVCFYSMSLPQAIRGI
EEIVSVNVNQEI VIENLTGFLYFHAVIAKVITQIVTEKRLKYLYEEISNDWKIITDKREKAVLEKSAAVGRNLTAYTG FV
VISAILFISINAFVPVLLNYILPGNTTYQKQLCIYAEYFVDQEKYFYIIFTHTMIIGVMTVYVATTIDCVFVCCVQHVVG
LFNIIKYRLREISRIYDTAVNESIIDLHFD AKKYLINVVEIHKKTLDLAELIQNTYNECFLLTILIVAGLATFTYVLAENVH
NPLNFMRIWCLWFGAIVYMFVNLP GQKLLNISEELFLALYNSSWHK FPMKTRFIIQVMMIRCLSPCRLTAGPLIEI
NFQSCSNVNVSSIKYLL

>TpreOR91

MLFEICDEREQTL LVDIRDQLGLTLLQWAVAYHLPNAILWVLKEKKEMDIFNNFMVEVIFQLLASLGLMFAYV SIGA
IKNKIQLV VARMWYDVTEDIQNIILVLVSKVVIATIQAVLLITSCVIYALAPVTIPFFMTFISSGNQTFKIALPLHHEFLI
DKDKYFYLIFTEQ LLLTDFGILVAGMNFYCSHLVTIIGGFRGLEHLLKLDDEYCYKISVGDKNANEWFNLQKDFI
RYHQAIIDFYKISNEVSSPIMFFLLGSGCSIIALTSIVVATDTAMAATAKMVVGTLIAVILIIFICFPSQLLKNASEDLL
ASYKLNQNYPP

>TpreOR92

MVCCKEIKHTCALLMGRMCDTNAWETQAIMFKPLKKGYRISIFQAVAMVILCTSFGISPIAIPSFLNRVLSGNQTHEI
NLPLHTEMLLSEDEYFYQIFAAQLTSLFIYGLLISAINALQCLSVAYIIGEIRILEYLLHKMYLEYKFKNLVDEKKRNKCIYE
QLKYFVDTHRICEFFNIVHDISNILIFGILIGATCIVVLTATSMIILMETDLTGSTKMLFAFCVTMCATFVCFPSQMLK
NASDDLMTFCYKMNRQSYPAKIRKMLLFIMVRTVKPFVLTAGPTIELNLETCTSYRRLKFIAKETFTPSGPGSLPK
NVWGLQEPNNKAPYAKRGFLFY

>TpreOR93

MSEEIKLNEVDDFFDLHYFALNKKFQIFCGLWPLETGYMKYFKQGAMGAILANLILFSHALGTFCGTNMDYCCEN
MLGVVYICITGFSKLVGISTTGGKFTGIYKMIARNWRETTDEIEYSILEKYARISKMLTRLYIVAFLMTGGVVTQAPAIP
LLNYYIPLNESRQAIPVNTDYSITPYTRFAHLWVHYSFTAVAVACVFIADATFVLIVFQILATLDVVKQRIRQASSVE
SENAEQSYGILVKAVKLHKDAIEFLNLSNEANSLQFLVVLGGTIFNISFGSLAILS RAGAYADFARIGILTGYLFQLFVL
CLLGELIISSSSELFVIP

>TpreOR94

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FTCIFTVDMMSYIILLKYNKEEKYFYLLLAIVIVINALMIVESVLLLSANIMIIKYLEGLDFMSSYVNHMYDNLNPIMI
KMSIKTSNKEIRRNIIINLIKCYQSQIQIFNLSTFTRYNYFIVVPQIALNIIFLGSKALLEISHDLQLFGRLLIICLASFLVPV
LIYPCQQLINANERFRNECYACKWYKFSPEARLLLGLTFRASHYFVLKAGPIISMTMETCSTILKTSLTYLVTVNKIYS
SFGEK

>TpreOR95

MAFHSKWTEKEQKFKNYILHVIAQSQHPVTIKANNLLPTLSLSFFSQYISIWPYDLTADKREIFHQIRWWISFINVCIL
LVPLILGVVYFRHDNVKMTKLTSELCTEIFFNLIQSKLELKNFQIVFHEIGTFIKEANKNDTALLQKYNKYRDFQLL
MGLTFILVAILFSLMPIVTRQSLPADAWYPFEIKSSIILICIYATQVLAIFQTAFGIFVDIMVAFMLWFS AARFEMLEIEL
QKAVSELELKNCVHQHRLIILTNKIKTAVKLIILKT NATMLLAVICGAFQLLHHSLEVLIQFVMLVAAGCLRLYVSAK
AADDLKENNDRFSRSILYTPVIRKSKSASKLSLLTFFSQRPVVVSIPGVIKAYTLQYYASFLSTTVTYFLHLRIILDE

>TpreOR96

MNELKLTREFDNHFFLT KICMIYIGLWPLDGACNDLKRNLKVFTGYFFVVSLLIVELYDIYFYSSGSIEATAEIVITMTY
AFGGLMKISHFLKEFGVFKDMWHTMHVDWTGVLGNDQERSYRSHVMRRITIKTRKYCRQYALLTLGAAVMYMT
MPFIGNQAHRVRKYPFFGRYYYDDQSDLVYILCYFSQVITGTFCATTNYALDTLFLICSYHMC AQLKILKHDLIKMSK
ENVAQRLTCLIRRHQREIRNVKKLQKVFSNVGFWQLFVACVITCINIFKMLNSQALGDAIYKSGWLD FQGN YKRD L
KFMIHRCQLPLTITAGKIYTL SIANFMEVIVNYIICQLSNQTCRL

>TpreOR97

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TALGIRLVMEIGVNTEIVIENFLAELFMIVIIFKLGISVLQRKSFKSMYTKITDHWRMINNVEELKIMTKNMNNVHVIA
KVYALWCFFGMEFFLAMPVGYPLLDYVIPMKNRTRVAFPCYVEYGLDPEKYYYPLMTQGFFGSLGCVAVFAAFD
LSYMMMLTSYVIGLFLAKHRISKVN AIMQVMELRNVNALKSNWSIPYIVQAIEAHQLALAYVNDLEDNYNKAWFV
SLVINVTTIGGAYVVVLVKDTP EEIFRYSAMLIGAFVHFYFIFLPGQKIINASEEVFDACYAVNWYKLSNKS KYLLKVM
TRSLRASYL TGGMFSL SMDTYCRMLKTSLS CVTLLKRILEF

>TpreOR98

MMKDAEELVIMSKNMNQGH RIVKIYSLYCIVGMGCFIAMPIAYPLLDYVIPMENITRTMREP VYVEYGIDIEKYYFP
LMTQGVFGGLVCVSLFVAFDVS YMMMLTNYVIGLFTLAKHRLRKINRLIWVMQQRNVNTKKS NWPIPIYIVQAIETH
QLAVAYANDLEAKYNKAWFAPLLINITSIGGCFAILTVKDTLEEIFRYFAMLCGAFSHFYFIFLPGQLIINASEEVFHAC
YAVNWYNLSVSKYLLKIIMIRSLRAS YLTGGKMFSLSMETYCSMLKTSFSLIAILKRLM

>TpreOR99

MSERNRKQQNRLGLFQTEQWKITVGLQKISGLYCFQRDRINFICWLIIFLSLSFTIVLGIRLVMEIGVHNEIVIENILG
ELYMLIIFSKLGISVLKRKSFKCIYAKIADHWSMINNAEELDIVSRNMERGHGVVKIYSLYCIIGMGCFIAMPITYPLLD
YVIPMENKTRTMGEPAYVEYGLDPEKYYYPLMTQGFGVGGLCIAVFVAFDVSMMMLTNYVIGLGFALAKHRLGKVN
KLIKAMEQQNINVLKSNWPMPIYVQAIKTHQALAYANDLEANYNKAWFITLVCDTATIAGCFAILKVKDTPEEIFR
FFSLLFGAFIHFYFIFLPGQLMINASEEVFDACYAANWYKLSHSHSKYLLKIIMIRSLRASYLTGGKMFSLSMNTYCSVY
AKDQLIVRRSSEEIVGFLKNILFFKFHV

>TpreOR100

MLRDQNLETDKFFNGPLYHLNRKSLILVGGWPYLNPRKREIHWCTLNLAIFTAWVPELIYIIEFDDTQKVIYCTMAFLI
SYLAFCASVNAAVNHNSMKQVLDLSDKNWDLQNDDEEREIFEKYANFGKIFSIGLSACYTGNLSLYFVSPLIPSMHL
FRATGNWTTPERNFVEVEYFVDPVKYWHYVHGAQAGTWVCLLMAYDSLFIVLVQHCCGMFAVLGYVIKLTLE
NSYTIGMMDKEVHDHRHDQQLVVEKIEKIVMYHLHCLKFAKKIENSFCMQMIQQIMINTIIISVCGSQAIKLADESL
QESLRYFLAGTAIFRLTIFNLGQSVYDQSLRVHDYLMYTTWYEYPMETRKSFIILYKRSAPCNLTAAKIVCLNLITH
TKLMKTAMTYFMMIIQTS

>TpreOR101

MYIYPFLHWNVDKILVVVTMKRILEENDALGRIIVKNSYEKSNAYSAYMSTLFIFMGTGFSIGPVAIPIFLTWIIQTSN
ETHEKSLPIHTEFFIDEDKYFYQLYAYQIVVILLYIILMGALSSFLSAIGFVIGELHYLQNVLEESDVKYKSLRANKLLA
HNFIVNKFKFVTHQHQCITLYKNLNNITNSIMFVVFSSCIMVLGSTMVILMSSDIGMAFKMSIAYFGSMIIITM
ICVPSQLLSNSSDSLFMKSYSLSWDEYPPKARRTLVMILVRTIKPLALTAGSITELNLETSSIIKSSLSFVAGFRSLYTTV

>TpreOR102

MSNSHHQQQSVSNHHHHHHHHHHHHHQQQLQQSTLFYLSFPVIDQLARSKKNKAMDDIERRYKISKFSLSKSLGLW
PTQSKLKRYTGFTIFTLLVVKIVYPQIVNVLKHSDDTIIILETAVYVLFHIIISLSKYVSTLLNLSKVKALMLSIYEVKRLTD
HHELKLMKKYENEAYFLVRFYALYVLTGMILLHSLVPFAPPLDAVYPLNNGTRGRLLPYRGDFVWFQEDYHYEICV
DFIVSAMIFWLLYAGIESIYSTIKQICGLFAVVCYRFERKRKISSNVDRLSKQNFDEYGLTSAEIAADAVKLYNECIKCV
GFLEDYSIPVLVTQISLLDMSIVLFFINEELLNGLRFGFFGSGMVLHLWYFWIGQLVIDSSSRVHFSV

>TpreOR103

MDALVDKQIKKDMFWSRFFLQSACLWPYTNIRILKYAGRVLLIPSAIFMELCLLYGGYKNLRQDSLIDIVYFTFTNVIELLI
GSIIPMYFITMSYDREFKLLGDMMHFYSEEASAEERKIVQDVTRGTYHLSCLLAFCVFCVCAAYALAPHSVWYHC
APVLLVPLLRHCLGHYRHHGNHSSGSSRALASTAVVFAVDQDKYYPYPLFYTTMNMIIQLATVANALSASFCSVAFI
RAQFRIIVHRLTNLDSLQREYLKRDLSIQDYIHQEFINLYLYHINSIRNLKLNIMIGEKLIFIVSVLCLLGLSFGSMMAVI
FLRKAPLAALNFVCMCFIVLLLSLMLNYYVGQSVIDANNEVYHNCYHCGWYGFPVKTRPFVFLMLMITRKACGLKSG
PFTILQLSYENYSILKSVISYITVMISVL

>TpreOR104

MTTIFQDNDTLGQKVILRSVKKFMTINSIITATFVYVSUNGATAPVVIPELLTWLLPGNKTFKKSLPIYWDFMDQHE
YFYQIFVMQQILLIFSFTVTSLIQYEYLCGFIIIGEFHQLQVFEQLYKLNSPVMFVVIVGASCCIIISGTTMVVLMNNS
SAIAIKMLIVYCTALITVPIACIPSQLLSNACLDMFNKTYCINWYEYPTARRILVFLLRSMKTMVFEAGKIIELNFETC
SNVLSYFINWYKYPKARLIVVLLLRSMKTLVVEAGSIIQLNFETCSNISLLI

>TpreORco

MMKMKQQGLVADLLPNIRVMQFSGHFMFNYYNEGLKFPHRVFCIVSFLILVQYSMMGINLAMEVGDPPDMA
ANTITMLFFIHPVKTIYFAARSKTFYKTLGIWNNPNTHPLFAESDAHYHSVAVQKMRKLATFVGAATIFTLFAWTTI
TFEDSVKTVVDKETNETTIPIPIRLPIRAWYPFNSMKGFHIMAFVYQFYLLAMCLTSLISVDVLFCSWLIFACEQIM
HLKAIMKPLMELSATLDTVPNSGDLFKAGSDDHLRDTNGVQAPAGDVIDSDVRGIYSNRQDFTATFRPTAGTNF
NGNVGPNGLTKKQEMLVRSIAKYWVERHKKHVVKLVTAIGDTYGVALLHMLATTITLLAYQATKINGVNPYGAT
VIGYLLYTLGQVFHFCIFGNRIEESSVMEAAYSCHWYDGSSEAKTFVQIVCQQCQKAMSISGAKFFTIVSLDLFASV
LGAVVTYFMVLVQLK