Online Supporting Information S1. The benchmark dataset contains 1,478 protein sequences, of which 367 are of GPCR protein and 1,101 are of non-GPCR. The 367 GPCRs are further classified into the following six main families according to their binding with different ligand types: (1) Class A (rhodopsin-like), (2) Class B (secretin-like), (3) Class C (metabotropic glutamate/pheromone), (4) Class D (fungal pheromone), (5) Class E (cAMP receptors), and (6) Class F (frizzled/smoothened family). Both the accession numbers and sequences are given. None of the proteins included has $\geq$40% pairwise sequence identity to any other in the same subset except the Class E (cAMP receptors) family. See the text of the paper for further explanation.

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(1) $\mathbb{S}^{GPCR}$: 367 GPCRs

(1a) $\mathbb{S}_{A}^{GPCR}$: 236 Class A (rhodopsin like)

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(1d) $\mathbb{S}_{D}^{GPCR}$: 23 Class D (fungal pheromone)

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SEKYAVVAKKVAPVLPSSEKLKAFKLAHPKWDNKDVKNVPGGLPVYMPKGGSDVFPARKM
KDTFDSSTAADSSMSFDPEKGVPLPSSPATTAPPDYDYPGNNDYSGDDIISHYPGDGNNS
LPVHVIPPSPQSSGSGSSPSSSRRSSTEIEHREFSFQRLPSRSILAGPSTSSMHSQSISS
FREDVMSSLHAHTASSFKTAPSSHSATSPAVPTLQNVPPRTSSYRPPQHSRSQSSLHSLA
TTLASTASGRDVIYIYDAYDSSPSFEHATYEQLPEHETPPFSNLAPVADEQRRSRRPATP
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>P06842
MSDAAPSLSNLFYDPTYNPGQSTINYTSIYGNGSTITFDELQGLVNSTVTQAIMFGVRCG
AAALTLIVMWMTSRSRKTPIFIINQVSLFLIILHSALYFKYLLSNYSSVTYALTGFPQFI
SRGDVHVYGATNIIQVLLVASIETSLVFQIKVIFTGDNFKRIGLMLTSISFTLGIATVTM
YFVSAVKGMIVTYNDVSATQDKYFNASTILLASSINFMSFVLVVKLILAIRSRRFLGLKQ
FDSFHILLIMSCQSLLVPSIIFILAYSLKPNQGTDVLTTVATLLAVLSLPLSSMWATAAN
NASKTNTITSDFTTSTDRFYPGTLSSFQTDSINNDAKSSLRSRLYDLYPRRKETTSDKHS
ERTFVSETADDIEKNQFYQLPTPTSSKNTRIGPFADASYKEGEVEPVDMYTPDTAADEEA
RKFWTEDNNNL

(1e) $\mathbb{S}_{E}^{GPCR}$: 7 Class E (cAMP receptors)

>P13773
MGLLDGNPANETSLVLLLFADFSSMLGCMAVLIGFWRLKLLRNHVTKVIACFCATSFCKD
FPSTILTLTNTAVNGGFPCYLYAIVITYGSFACWLWTLCLAISIYMLIVKREPEPERFEK
YYYLLCWGLPLISTIVMLAKNTVQFVGNWCWIGVSFTGYRFGLFYGPFLFIWAISAVLVG
LTSRYTYVVIHNGVSDNKEKHLTYQFKLINYIIVFLVCWVFAVVNRIVNGLNMFPPALNI
LHTYLSVSHGFWASVTFIYNNPLMWRYFGAKILTVFTFFGYFTDVQKKLEKNKNNNNPSP
YSSSRGTSGKTMGGHPTGDDVQCSSDMEQCSLERHPNMVNNQQNLNNNYGLQQNYNDEGS
SSSSLSSSDEEKQTVEMQNIQISTSTNGQGNN

>P34907
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TIITLLYKPDQTESGFPCYLHAIVITFGSLALWLWTLMLSFSIYNLIVRREPEPERFEKF
YFCLCYGLPLISTIVMLSTHIIQPVGGWCWIGDNYDGYRFGLFYGPFFFIWGTSAILVGL
TSKYTYSVIRSSVSDNKDKHMTYQFKLINYIVVFLVCWVFAIVNRILNGLNQFPTVPNVL
HTYFSVSHGFYASITFIYNNPLMWRYFGAKFLLIFSKFGLFVQAQQRLELNKNNNNPSPI
MRSKNALDNGADSSVVELPCLSKADSLSLDAENNIETPKENENQNHHHHHHHHHHHNHYN
NNNNNNNINNKNDMI

>P35352
MENLNTTSTAALTGMTKQENDASYAVLLIADFTSIIGCTLVLLGFWRLKLLRNHITKIIT
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KREPEPEKFEKYYHVFCWVVPFIMSVIMLSKGVIEVTGNWCWIGNTYVGYRFGLFYGPFL
AIWFLAAVLVGLTSRYTYKVIRSSVSDNKDRHMTYQFKLINYIIVFLLCWVFAVINRIVN
GLNMFPAWVSILHTYLSVSHGFYASVTFIYNNPLMWRYLASIILIPFTKFGYFVETQQRL
EKNKNNNNHSPVGLSNNAQNNNHHHNHNNNHNNNHNNHNNNNNNNNSDFVNNDSSNYYTA
SMIESFSVQNENSKSINGADNFKQNGASQQDDKDSPNSNNNNNNNNNNNNNNNNNNNNN
NNNNYNNKDIEPIDNCNTNSIPMDNIATRIEIPPQHPTLTPQQSLQEINLNDDDNKINTH
QSNKKKDSNV

>Q9TX43
MKVLQEINLTYSILVIADFSSIFGCLLVLIAFKKLKLLRNHITRVIACFCVSSLLKDIIS
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KIYHGVCWTIPLICVIVMLAKKTIEPVGNWCWISEKYVGYRFGYIYGPFFAIWIISAVLV
GLTSRYTYSVIRNSVSDNKDKHMTYQFKLINYIIVFLLCWVFAIVNRILNGLGYYPTLPN
ILHTYFSVSHGFFASVTFIYNNPLMWRYWGSKIFLIFAKFGYFVELQRRLDRNKNNNNPS
PILNSYAATVYHSSTIESLSLQHHNNDISNDNQQQQQQQQTPQQPQQQFQQQQSPTVIEM
QNLKQDQNIENNEQNENCYNTIDTNIEIITNKLNDNSFEITQPSNDLNTIENNNNYNNNN
NNNNNNSLVIEEKDEREKKDNKF

>Q54YI6
MKVLQEINLTYSILVIADFSSIFGCLLVLIAFKKLKLLRNHITRVIACFCVSSLLKDIIS

TGLTLSLGPQNEAGSTSFQCYLYAITITYGSLACWLWTLCLAFSIYNLIVKREPEPEKYE
KFYHGVCWTIPLICVIVMLAKKTIEPVGNWCWISEKYVGYRFGLFYGPFFAIWIISAVLV
GLTSRYTYSVIRNSVSDNKDKHMTYQFKLINYIIVFLLCWVFAIVNRILNGLGYYPTLPN
ILHTYFSVSHGFFASVTFIYNNPLMWRYWGSKIFLIFAKFGYFVELQRRLDRNKNNNNPS
PILNSYAATVYHSSTIESLSLQHNNDISNDNQQQQQQQQTPQQPQQQFQQQQSPTVIEMQ
NLKQDQNIENNEQNENCYNTIDTNIEINTNKLNDNSFEITQPSNDLNTIENNNNYNNNNN
NNNNNSLVIEKEKDEREKKDNKF

>Q6R2K8
MEQSPDEIRATYAVLLIADFTSIIGCIIVLVGFWRLKLLRNHVTKVISCFCLTSICKDVP
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YYLASWGLPIISTIIMLAKNTVDYVGNWCWIKPEYVVYRFMLFYVPFFIIFGTSAILVGI
TCHYTYQVIHNGVSDNKDRHVKYQFKLVNYIIVFLICWVFAVVNRIVNGLGYYPFATNLL
HTYLSVSHGFFASMVFVYNNPLMWRYFGAKVIRCFTLFGFCTETAKRLEKNKNNNNPSPY
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ESINNNVNNNNSNEHSQNENIGSSNI

>Q9NDL2
MGFDSSEYNPDNITAGTVLVDPMTQIEIDLLYSVLLLADITSIIGTFIVLIGFWRLKLLR
NHVTRVISCFCLTSFLKDLMSMTLTLTDSAQYGGFPCYLYSIVITYGSLSCWLWTLCLAI
SIYLMIVRRYPEPEKLERYYFFVCWGLPLISTIIMLSKDLVHFLGNWCWIGEQYTPYRFA
LFYVPFFIIFGVSAILVGLTCHYTYQVIHNGVSDNKDKHITYQFKLVNYIIVFLVCWIFA
VINRILNAIGLFPYACNLLHTYLSLSHGFYASVAFIYNNPLMWRFIGSKFIRLFTIFGFC
VETAKRLEKNKNNNNPSPYSSSRGPTITKLSNNSGIEMESSSYDDYNADGPEGADNLRTS
PPLPPPVSLSGDDDIPEDGNANA

(1f) $\mathbb{S}_{\mathrm{F}}^{\mathrm{GPCR}}$: 18 Class F (frizzled/smoothened family)

>Q9VVX3
MRHNRLKVLILGLVLLLTSCRADGPLHSADHGMGGMGMGGHGLDASPAPGYGVPVIPKDP
NLRCEEITIPMCRGIGYNMTSFPNEMNHETQDEAGLEVHQFWPLVEIKCSPDLKFFLCSM
YTPICLEDYHKPLPVCRSVCERARSGCAPIMQQYSFEWPERMACEHLPLHGDPDNLCMEQ
PSYTEAGSGGSSGGSGGSGSGSGSGGKRKQGGSGSGGSGAGGSSGSTSTKPCRGRNSKNC
QNPQGEKASGKECSCSCRSPLIFLGKEQLLQQQSQMPMMHHPHHWYMNLTVQRIAGVPNC
GIPCKGPFFSNDEKDFAGLWIALWSGLCFCSTLMTLTTFIIDTERFKYPERPIVFLSACY
FMVAVGYLSRNFLQNEEIACDGLLLRESSTGPHSCTLVFLLTYFFGMASSIWWVILSFTW
FLAAGLKWGNEAITKHSQYFHLAAWLIPTVQSVAVLLLSAVDGDPILGICYVGNLNPDHL
KTFVLAPLFVYLVIGTTFLMAGFVSLFRIRSVIKQQGGVGAGVKADKLEKLMIRIGIFSV
LYTVPATIVIGCYLYEAAYFEDWIKALACPCAQVKGPGKKPLYSVLMLKYFMALAVGITS
GVWIWSGKTLESWRRFWRRLLGAPDRTGANQALIKQRPPIPHPYAGSGMGMPVGSAAGSL
LATPYTQAGGASVASTSHHHLHHHVLKQPAASHV

>O77438
MYAASILILHLTWAVATIAANGAGHNGPVASGAGPNGLQCQPIAVSACQGLGYNMTALPN

LAGHTNQLEAELQIAKLVPLIESGCSRRARFLLCSSLFPLCTPDVPRPVAACKLLCETVR
GECMENAPPELMELWPSFLNCDGLPQPEKHELCMQIPQEVAVPGGSPSGPPTTGSPGVED
HPQTYRFWKSGASPTSDLAGVLCPQNFSGSPFNPEECVPQCQRDAFHTSSQKKTSETLIL
GLSAVCFVLTLFALVTFWAEPTRFGYPERPVLFLCLCYNLFSVCYLERIVFHNQARMHDV
ELQGRLMRPGCLLTPPCLASYITTSYLSLCAASWWLIFALCFYLSSHKKWSSEALEKRSG
LFHVLAWVPPLAPPIAALLLEKVRPSELTGMCYAPGFVELPALVLLLLGLYFTLRASRSL
LSLQQQLQPTLAHHRFGQIRKRFVLFSLLYFAPTTAGVVAALCERYADSVPSCSTPDDCL
SPTPLSAWPALVRIFFQLVGGTLTGLWVWSRKTCESYRNRLGASGTPTSSLMNQSKAAGA
LPKKHLYTSGKSMLPTGGITPLYAGISFHNVPVYNPNQSRV

>Q9NBW1
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SLCESVRIRCHPVLQGFGFPWPPALDCDKFPRENNHETMCMEGPGELHQPQQEQDLYGLP
GQGIPGGLGGKLPMDCSGLAKSHLYVRLPRSGRCAPLCEADILFTPAEKHLAEIWVSTWA
YAALGLALVATVCLLASDGSRLASAKWSRLLSPLIWCHNMVTLGWAVRFMVGRTGTACGT
DPQAPNESLLTVDGLSNASCASVFLMRYYFGMAACAWWAVLCLGWHRDIRRHSPDSKGHV
VIPSNFGGSPAKRNSAKTAQQDLTQNNFVCFVAWGLPAFQTSAVIVARFVDADELLGACF
VGNQSDKALQILVATPVFCYWIFGSMNLISGYLVHCRTKEILRNSNALSVQQQLQQLSAH
SSSGIGIFLFIYGLACAMLLLAVIYEFANIDVWLGSGDTNTPLWPFLLRAFMELMLGICC
FAWVLGPSISTLYKRQVSNGKMVKHTSAGAATGHLDGHSSSRGSHAACNSTVVSYHSVRT
SMASVPLPPSPYKLKTSPGTGSISLNQMSNYSLGRSVHHQQRHSPHHHHHQQQQHHQFHP
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>Q9UP38
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EQALPPCRSLCERARQGCEALMNKFGFQWPDTLKCEKFPVHGAGELCVGQNTSDKGTPTP
SLLPEFWTSNPQHGGGGHRGGFPGGAGASERGKFSCPRALKVPSYLNYHFLGEKDCGAPC
EPTKVYGLMYFGPEELRFSRTWIGIWSVLCCASTLFTVLTYLVDMRRFSYPERPIIFLSG
CYTAVAVAYIAGFLLEDRVVCNDKFAEDGARTVAQGTKKEGCTILFMMLYFFSMASSIWW
VILSLTWFLAAGMKWGHEAIEANSQYFHLAAWAVPAIKTITILALGQVDGDVLSGVCFVG
LNNVDALRGFVLAPLFVYLFIGTSFLLAGFVSLFRIRTIMKHDGTKTEKLEKLMVRIGVF
SVLYTVPATIVIACYFYEQAFRDQWERSWVAQSCKSYAIPCPHLQAGGGAPPHPPMSPDF
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>Q8WMU5
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LECDRLQYCDETVPVTFDPHTQFLGPQKNTEQVQRDIGFWCPRHLKTSGGQGYKFLGIDQ
CAPPCPNMYFKSDELEFAKSFIGIVSIFCLCATLFTFLTFLIDVKRFRYPERPIIYYSVC
YSIVSLMYFIGFLLGDRTACNKADEKLELGDTVVLGSQNKACTVLFMFLYFFTMAGTVWW
VILTITWFLAAGRKWSCEAIEQKAVWFHAVAWGIPGFLTVMLLAMNKVEGDNISGVCFVG

LYDLDASRYFVLLPLCLCVFVGLSLLLAGIISLNHVRQVIQHDGRNQEKLKKFMIRIGVF
SGLYLVPLVTLLGCYVYEQVNRITWEITWVSDHCRQYHIPCPYQAKTETRPELALFMIKY
LMTLIVGISAVFWVGSKKTCTEWAGFFKRNRKRDPISESRRVLQESCEFFLKHNSKVKHK
KKHYKPSSHKLKVISKSMGTSTGATANHGTSAVAITNHDYLGQETLTEIQTSPETSVREV
RADGASTPRSREQDCGEPASPAASSSRLCEEQADRKGRAGNGTDKISISESTRSEGRVTP
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>Q9H461
MEWGYLLEVTSLLAALALLQRSSGAAAASAKELACQEITVPLCKGIGYNYTYMPNQFNHD
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LMRQYGFAWPDRMRCDRLPEQGNPDTLCMDYNRTDLTTAAPSPPRRLPPPPPGEQPPSGS
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VSSERHPLYNRVKTGQIANCALPCHNPFFSQDERAFTVFWIGLWSVLCFVSTFATVSTFL
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GAAGAGAGGPGGRGEYEELGAVEQHVRYETTGPALCTVVFLLVYFFGMASSIWWVILSLT
WFLAAGMKWGNEAIAGYSQYFHLAAWLVPSVKSIAVLALSSVDGDPVAGICYVGNQSLDN
LRGFVLAPLVIYLFIGTMFLLAGFVSLFRIRSVIKQQDGPTKTHKLEKLMIRLGLFTVLY
TVPAAVVVACLFYEQHNRPRWEATHNCPCLRDLQPDQARRPDYAVFMLKYFMCLVVGITS
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GGGSLYSDVSTGLTWRSGTASSVSYPKQMPLSQV

>Q3LTR6
MLLRISVLFLLLGSCGALFGKRQKCEQITIPLCKGIGYNMTSFPNSYGHEKQEEAGLEVH
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ETLSCEALPKMSDQMSTGNICAAPPDTPKKQHKGHHHKNQNQNQNQNHNYSPDGPEVGIS
KIDNEVIAGPSECQCTCNQPFQFVASEKSKVGNVTNCAYSCHSPALAESHSLVSNWMAFW
SITCCVLASFTFLTFLIETDRFQYPERPIFMLAFCQLMVAVGFMIRYFVGHEEIACDSMR
IKGADDNSGSLCFVVFLLTYFFGMAASVWWVILSLTWVLSAASKWSPEAISSFSFHFHVV
GWCLPAIQTVLVIVFNAIDGDPITGICYVGNTDLQFQRIFVLFPLLVYFIVGVLFLVIGF
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>Q4H315
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FSWPRDLDCSKFPLKTEGDLCFGRDIIPSTITPTYVDRRQCLTGVGFSCPAHMTVHENDI
SYEFMETENCGAPCDSKRLMFWTEGEKQFANLWIGCWSFICVISTLFTVLTYLIDMPRFL
YPERPIIFLSGCYLVVAIAYIVGFFLRDSVACKQFSSSTCSADNTLSTCPKVVTQGAREA
GCTVLFMMVYFFSMASSIWWVVLTITWFLAAGLKWGNEAIEAKSPYFHGTAWSLPAIQTV
IVLISSKIEGDLLSGVCFVGVYNTKHLLWFLLVPLSIYLLVGTCFLVAGFVAMFNIRNVV
KHNGGTGKVEKLERLMVRIGVFSVLYTVPATVMIACYFYEQMNRDSWQKGWFAENCRKFR
VPCPCEYSKHVGNKPDFIVFIIKYFVMLIVGITSGFWIWSSKTVESWANFKDNLCCFKSS
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>Q4H3F9
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LERTIGPCEGMCLSIKKLCLPALKSFGYPWPEILNCSNFPKDNKQNMMCMTGTHPHVKDE
QPLIRPTKIKRSYCRQPQISLQSNEGCGWRCGYQQGMFSTEDKEFADLWMGVCSGVCFIS
TVFTVLTFLIDASRFRYPERPIILIAMCYNIYSISIYILRLLVGRNNISCQRNTEGEMFLI
KEGLGNTGCTVVFLLSYFFGMASYLWWVILTLTWFLAAGMKWSHEAIERHSSYFHLVAWS
IPSIKIVIILILRHVDGDELTGMCYVGNQDMNALTGFVLAPLFTYLVIGTSFLLAGFFSL
FRIKSYMEKEGSKTDKLERLMVKIGVFSVLYIVPASIVIGCYFYEHAVRRLWAQNRNVTP
SATIYFLRILMQLIIGVFTGFWVWSKKSMQSWRQCSHSVLALSPKHQLKQTIDNRATCVT
SQHKLPDVITPQECIPTHCPHTGHPLFVAMPTSSGAFSRTYRFEGKIQEPLLLSNNRVEG
IP

>Q4H3G0
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VEAFGIIWPQRLHCDNFPPQNGGKMVDTGSDTWGKMVVSRSSWLVWGEALLGDGEVCIPL
SGDDVITPALSQNNQEIDNVTKYPGEYGLRCPAQLTAPPNEPGYTFLGMQGCGAPCPNMY
MGDDELMLVRYIICVLASLCALVTSFVLFTFAIDTNRFRYPERPIVFYAAAYFVISVIFL
VGFALGSDVACKHEIMDENNIVIQGAVVVEGPRDRACTIVFMILYFFTVNGTIWWLILTV
TWLLAAGFKWGSEAIEKHHLYYHGLAWGIPAVQTMVVVTTGKIEGDNIAGVCFVGLYDSD
GLRFLLLLPMSFYLLVGMFVLLTGFICLNRVRKSLHDDETNKKKLAKFMLRIGVFSIMYI
LPQLALIAIYAIEDSNRKSWESAWFVRNCGRYGVPCPNLPHPVAQLAQGNPLPGVFIFCM
KYIMTLIVALPPLFWVASKKTMASWKEAVTKPRCMDDGNPLSVTQTQLLNDSNNGPHARD
AVRKQQSKHSDVIFGGLGGFQGSSASIAAAEAMTSSRARARQELWEDMTSTDSTLSSRSE
STLAKVLEYESHKNKGKRVVGRRRHNQGHPLPLTHNPDEGENNREVDDVINKPVPIKTER
NNRIDDVISSQSRSLSDVTRPQSSVTSQPGRPDVVKKQLSISRSDATRSVPDIIKTTELS
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>Q589S5
MFKVTVKVLYSQWFLIVFLYIGQICMAVPDLRASRCEDLVMPLCRGLWYNRTRMPNMFNH
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PIMRNYGFSWPSQMSCDQFPEGSTDKQLCMERDISSTTLAPVIMKPTPLIQVDDDDIINN
NNNNQNELETKPLQRVEKIIPTNNRSSNVRCNCKCRSPMIKIDSVHHAYYNKVYTGGIIN
CAWPCRSPFIENNRYYLISLWLSISVGLIFICCISSLLTFFLNRLELIQPPHRFVAYICC
CQIGMSIGFIIRLVAGHYKTVCFQPDYKPIHESLLLMLRFQNSAPSVCSISFLFTYFFFF
ASVLWWWLLCLTWFFSDGLGWSSSMIDKYSQLYHFIAWFFPGIFSMLALTMSAVDGDPVT
GLCLVGNINRQHLITFLLAPLCVFTCSGLFFLACGFLSVTKCDQSSSHRSKLSVPVSPRT
ISTDTSVESAASSLPKITTSSITKCFYGFLGLICSIPLCLTTGSIVYEMRWRSHWEVLTT
CSCLNEMESNSYLSTPSILLYILKYSGFFAIGIICGPWIWPMQTFNTWLEPIIHLFLCKS
NQGNRDTFCKPKPTHICQAQPLCNTSYTITTTCHRQDCLLEPSNTNDSLLMSSLKPLPKC
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FH

>Q5RH73
MSSKRPCSIVGSFWMLWIWTATSMVARAVILHPNETIFNDFCKKSTTCEVLKYNTCLGSP
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SQHLCQATRNPCSIVERERGWPNFLKCENKEQFPKGCQNEVQKLKFNTSGQCEAPLVKTD
IQASWYKDVEGCGIQCDNPLFTEDEHSDMHSYIAVFGTITLLCTFFTLATFLADWKNSNR
YPAVILFYVNACFFIGSIGWLAQFMDGARNEIVCKSDNTMRLGEPSSTETLSCVIIFVIV
YYSLMSGVIWFVMLTYAWHTSFKALGTTHQPLSGKTSYFHLVTWSIPFILTVAILANSQV
DADSVSGICFVGYRYYEYRAGFVLAPIGFVLVIGGYFLIRGVMTLFSIKSNHPGLLSEKA
ASKINETMLRLGIFGFLAFGFVLITFGCHFYDFFNQAEWERSFREYVLCEANVTIAHQTN
KPIPECAIKNRPSLLVGKINLFSMFGTGIAMSTWVWTKATILIWKRTWFRIIGRSDDEPK
RIKKSKMIAKAFSKRKELQKDPEKELSFSMHTVSHEGPVAGINFDLNEPSIEMSSAWAQH
VTKMVARRGAILPQDISVTPTGTPIPPPEERNKLWMVEAEISPEMMKRKKKKKKRRKEVR
PAGPAADEGNPAYHRREFGPSAVPRLPKLPGHRSLVANLWEQQRQQQEEQDMLPGAFPEF
RPSCPLPYQDRYGGLGYLRNKPSSLPLANPLTLRDSMQGDLSHFQQSSWQPKGVFRHLGQ
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>Q61XV6
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CESLMKKFGFQWPDQLDCNKFPVSDLCVGKNSSESSSSKKSSSDVTFGVSTIANEVVLSP
KICPHVMHTTSGSHFSLPLLSGRLPDCSLTCEADNQVPMMFDGRVRRILRIWTAAWSVAC
FVCSLFTLVTFLVDLSRFAYPVRPILYLAFCYLAISLVYMIGVVGEDGFACGTYGSTPKI
LVTQGGENVGCSALAVVHYFFFMASCAWWLVLCLAWFLAANLKWGAESIAALSPYFHAMC
WGIPAVLSVTVLVTNSVDGDVFTGICSVGNLNPSALVYFFFTPIVVSLALGAVLLICGIW
SMIRIRSYIKLQRADVERNISKLEKLMLRIGAFAIMYSLPTAMNASIMWYQAVHMPAWLE
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KTLSSYHKAYLALSSRSPPVPNHPDQVNLR

>Q70LH3
MSLVWFILVLLASGSHSQQPLCDNQSPTAFGSCVPAPTACDMLYSSTAYPNNVTTTSMMS
VSRLIAYQPFVNVIDCSPYSQLFICLSLAPVCTSGSPRHPCESLCDLVLASCSDKIQQLG
LPDTDCLLNCDRYPSTGCVDTDDPLVLAIQSINPLTTIPAITQTPHTTEPSTANSSGECP
EVSYFTDSAKSFAQGWLAFWALICFISTTLTIATFVLDPSRFQYPWRPVVYLSLSFNLHS
LTHFFSKGLGRDLVTCPGNQFVQTSITWTWGHTPCILVFGLLHETMMTAFLWWLMLSFSW
FLASAFSWSSEAVSHLAPFYHVIAWVLPLVLTIILVATRVVGADELTATCFIVRDENDMS
FYALLLGVIIPLVACLITGVVFLVIGFVSLFRIHSIMRHSGKATESSILEKLMIRIGIFV
VVFILPAVIVVGCFMYELISRPFWTPISEPCNDCVLGNPAVFMTRLFMFLLTGILTGVWI
WSKKTLLSWRNLPQRLTTCCRPKPVDVPHAVNVGVGEQITMELESSDKL

>Q7PPM7
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