

>CN CASK-like 1080 aa

MENGFPLRFDLRSRSGRPWSLTIILMYSRGTFSVIKKCTDKKTNRVCAVKIVDVS KMRRASS
GLTEEDLNREAYICQKLTTHPHIVEMMGAYSMDGYIYMVF EYMDGADLCFEIVNVRNAGFV
YSEAVARGTFSGIKKCTDKKTNRGGAVKIVDVS KMRRASSGLTEEDLNREAYICQKLTTHPH
IVEMMGAYSMDGYIYMVF GYMDGADLCFEIVNVRNAGFVYSEAVASHYMRQVLEAVSFCH
ENGI IHRDLKPHNVLLANRENSAPIKVADFGVAVELPPEGCITSGRLGTPHFMSPPEVNR
QPYGKPVVDWGGCIGILFILLSGNYPFHGTGKGVYQSIITKGQPVMPRQWDQITDEAKDLC
LNMLATDQDQRIISAADALQHPWLKNDVDFECEDSDLSATGMCSFYAIFYSKFHSFAFALL
QSY SMLVREVTNLVVCIGAIGQLLDSLEEIQLLTGARKAETDFLQTFEFDRHFQALLEVY
DRSQEWTEHESC PPTSTSEAEQNAKDVVNLIEFRAEDDDDCYELQNLICDPHVMAMLQA
HDGVLQEEKQDETSILPDPDTPNDTIDNSIPERPEKLRVRLVQFHKPNPEPMGITLKLN
DEGRCVVARIMYGGMIHRQGENDPGILSAHIMYSGI IHRQGENNPGILSAHIMYGGMIHR
QGT LHPGDEIREINGSNVADKSI EALQSMLVFVRALFDYDPRSDDLIPCQRAGMAFHCS
ELQV VNKADCYWQAKKPDANEEFAGLIPSP ELQEWVACIAAEKSKQNGASC IWF SRK
KKT YRDRYVAKHNAVFRDLDLVTYEEVVKMEKFKRKT LVLVLSQPAGVPYLYAPRWSVKS
LPSVTP LFLYPTLEIMQNTQEDVSVFN RGAHGVGRRHIKNTL INKFADKFAYP I PLRDR
LDLVTYEEVVKMEKFKRKT LVLVLSGAHGVGRRHIKNTL INKFADKFAYP I PLRDR
GGHVWDQADITTDI IENHKVAILDVEPQALKILRTAKFTPYVVFISAPS IKGINDIRP
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WVPI SWIY

>CN NRL-like(6) 682 aa

MNWYRNITSLLLQVITLLFCFCGLIYGQNVTAVISTEYGPVRLRHS LKNGNIAVKFLGI
PYATASRFERPRNPADKWTQTLDAVNPKVCPQTGEQVVDENCLTLN VYKPSATRNSSLPVL
VF I HGGAFMRFSHAEDDPSLLATEQGMVVTIN YRLGILGFLCSGD I KENLGLLDQIYAL
KVVQNNIERFGGDRSQVTIGGLSAGGESASILMLSPLATGLFTGVFAMSGTPVPTLEGRK
DVETAARVAEVLGCI DVGQRITDCLREKSTAEIVSAMQNVSMKFAPCVDGHVIPSFWIR
HLIGTSALGESRELKKNVMMGATNDEGSFQLHVSPDL SRQDLHDG I SRQTFQYIRNQT
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FFYFFEKKPPVERKIKGITQAPGWFRATHGADNSYLFGGDLDMTWVNDSLKADREFAKRF
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SSDPPSQEPPTDKPEHHVKKRRDKGVYDYALSPNVLF LGLVVI ALALTSVIFIVVA ILLF
IMLLYTCIKTIRLARVAKGGYS AELVEKDVCIPASFAPGVRRSITVACLSPSPFARLQKF
DVDLLHTFVLP LNVSPKRKRLP

>CN NMDAR-like(1) 1653 aa

MPRKCYKLSFLIVQFFQGFHDIYASCDVQQLNLAILVDNNSNSHQWTSIITLRNAI
QNFQPKTTFAKSAKTNFTYINC GNSTSI AQAIYVFC KTLGSQQFHGVFSS LKDPQIQALS
RYAGISGLPIFSDSTNSILLNKDVYSSFVYLLPLRVVQANAIFTVLK TLEVKNFHLFCDA
RNINNTICSTGSP LLYKEDYNTTGDTRTEILGVLGRVKYSGTKVIVLDCEEDGVGSLFSV
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YNTIGVRLALTA SRAASSFLSIVDAL TLES CNADQLMPKAHLS CSNWSQSTADEAN
RYLTKSIEATKDRKSDHYYALGRAHYTGDFQELTNWSS T KGLTDQGHQLLYKYGLF
GRSYDNRSLRIVTIEHGSYTYQIQNMYPKPPGRITCLPRDKVCDIGVPC TQYIPGND
TWIAKSI C ISGQMIELLE LIREYVHFTYEFYLRD HKYGSVDPVTGLWNGMVGDIITGEAD
DMALATLTI TASRSRVIDFSSPYGEVGI LARTD T T LGSVVNMDFMIPLSSQLWTVILA
TILFVIIVLWVLELLRCSVSAVSMSSGNENEWKNGI IYDVTE SNLLAAIIFVIITLWVL
GSIDEAVDQNILYRGMNQHKVKEIQNMYPKPPGRITCLPRDKVCDIGVPC TQYIPGNDT
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DEFGKSPSGLSIENVNGLFVVCAGFAMCALFLGIETMIYHFRGESREIAKLN GSCRRQE
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GGLVRTVLGITIIAIEYHDTRA EWGGLVRTVLGITIIAIEYHDTRA EWGGLVRTVLGITII
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>CN NMDAR-like(2) 996 aa

MEIKFVFLGLAII LSTLSGQQLGSRDNSTIEIAVIFTERDSNERIQAIEEATIKFWQMN
TSQTQFGNWRITFKGLNVSICGGCSVMEKLRKLDNMMGNISFFDGAVFLTVNRDAGLMS
LLCNAGIATIGLFEDTNFASQGLSSYFTRMRPHIFSYAVMKELVLKMGWRRICLVASA
DQDGEVFASVVKYFVVKNKWLLSVIWI DSETESRINKLIGFINDTKAEVVMYGRNSKA
QSFFQKATTKLSKDNLIWLITEHLGYGLPVDLLPTGILRVNHRQTMSESQHLNDVDLLTD
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DSGLGSLAHNIESSSL

>CN NMDAR-like(6) 829 aa

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ATSLCQDVLISDVTAVIGCLDERSEPDRNLVHVLNDAGIPFVCDGSLASYKVIIVLPQY
PNDIYFGRSSETSLVAIKSFVELSVATELVLIIGKVVQLASAVATLTSWAQQTSTLITTI
STETGNVPLRVLKRVNGTLPQTILVVAVLDREYI IKNRSLWNSTNVSTVDPLWILDDCKL
APLATSHLPKGVFCLESEATVTDVLQDSSLWIKKTLQKTLTGHSNQTCMHDGSSFRLEK
RFVRRQLLSEKMGKSGHI SFTAFRARNHFNYKVRVSMTDQQTQTLVGYIRDGVANISTTT
QINPKQCADKNVAVCVTVVHDPFLKIGEFNIFDYDECTLEHVCYVPVQLNGSESIYEKRC
CAGYVVDILLSLERDLRFHAEIYVRSEAYGSYDPKTKRWGGMVGDVEGRADVALMGMT
VSKVRSEAIIDFTPAITPSKLVILMHASQAEVQNSLFGYLRHLNLELWLTLLFLSISMIFI
IWKLDRTSPYGHFRANTEEDRLSLPATFTYIWSVFKLTLDGVAARSPSARTVYAI F SF
ATLVFIATYTANLIASLVQEKESFPITGIYDAKFQDASLGFKFATTAGGSIEAFRRNKL
PVFRNIAQNLRTVNSVKEGVDKLTSRELDAFIYETPQVTHQAATLHTESFRIVGPAIILQS
SLAFGIRKQSPWTRLSDALHLYEQKGYPLIEKKWFLDLRNDKFIKAMDITHRGLFL
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>CN NMDAR-like(6) 914 aa

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ESRIAEINTNGSLEENVERFCREIESEVHVVSRRGGERIFSSAALHGLNVPVFDISPD
LKTNSPALSLPSSRLAYAI PHVFKIQWKRFAVITNSWQSAEFLSLHQTAGKSSLD
I IKTEQLGNKPRVDLLKNNLDARVNIIVLFIIDISDWKNIQPSANNLEMTIASFAWIIVT
VTRLEVIKVTLEKPLSLTFIVQPSQNKSTDAQREKKNMVFLEFVKDILLNHTGKINQRIAA
SNACHVTYSEEDGRLDVNANTYRNTKVMLNRRYGNQLYVSNLDMIARHDVEARTSLYNL
GEWRGGELVFNESAFKIRPYIPEDEVSLPTLRVAIVEYVPMWMLSKNVSDCLGLSRVCE
RKYKALNRTEKYCIYGIIVDLMI IIESRLGVRFEYIIEDGNFGIFNKRTGHWNGIVEDL
MHNEDMVGGLAITHERAKVIDFAEPNSKIGLAIIVKINNAEHQEPNDVFKLLPFDLNA
WLCVGLIVHLFIVLIWGTAKALHRNVPFFEIAMYLISIALGRDTGNDMRPQSMGRWLST
VFSFISLVVVAAYSANLAAYYIVDKTNLPISGILDPKVRESHYTALPISGILDPKVRESH
YTTLPISGILDPKVRESHYTTLPISGNLDTRVGEESHYTALPISGILDPKLTAAPTGLTYS
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YIDPECQALAGSQELGITSWAFAPRGSWVKDKVSKVLTLEQESLIEQLYDNWMMGRII
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EGNNVITKSTSMY

>CN NMDAR-like(7) 867 aa

MTLQSRGLESTFLRTYFIRAVTDLRRTLGGIEIHKHSSYTKLGLNDYGYCVTKMFALSNI
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NSVLIGCLGSRDLDDLVLSRFLSIPFICVGETFAQTTLQTPYITIGASTVAVLGVVVSQ
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LVLLVFLDNSIIARDRTLRNAICNFASHIKAVIFNDGKKNWGLKSKKSDILFIKVGNDI
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QANTEFLSKLLPSSQDVELVGQTPNRKLVMLQNLRLRPNLCKKNPRALCVVAILDILCFK
SLYEVKSSNECILSHMCTVYGEVGDNNTVTPRVRHFCKGFAIDILMNLERDLEFEAEI
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IIMPVKSSYTSHDWFGFMKPFGTHLWVAVFVSTSVVLVIMVWLDIMYSPYGYKHHFQVFTL
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GTLDAIVDVTYSEHFTALRPNKFYGVVDVVRTMGGACAFRKGSPWNARISARLREYKSN
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REFEVTVIQYQEDATVERTNEHINTEX

>CN GLR-like(1) 737 aa

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LLGLRLQMHGARKLRREAERNAMAAPNVTGLTYAVLNDLSYVVVKAIGEMMKNFTFLVEDK
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QTLFSSHKYGQLTITNSNLVSLQRDNLVNWNQYWKETE CERKEEFMRKHRENDRVVI
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EWRGILGELVLRQEAADIAIGPITITAEREQVIDFSKPFDFRIAMILQKPLEEDVDLFAFL
MPFQKDLWACCCLVVGAVTILMWILDRFSPYGFRAEAKNTGEGEGDEFSLPNSLWFA TGS
ILQQGDNTPRSGSGRVLAAFWLFTLILISTYTANLAAFFTAQNSKSTINSLEDLVAQD
VFKYGVQGGSLSPFFEKSKVRIYKKMFGKMSLTNTFVKGTDEGVNR.SRRTTFFAYLTDQP
SLDYYNQRKPCNTMLVKNLLDAKSYALGLQRNSEWTDGIVSAILQLREEGEVERIRYKWW
DAMSECNLKDVAVSNQPMSELEHHLAGVFIILGGGAGISLVILLMENRFRGAFSFWRPEM
DCEKFWGLERPHPLEG

>CN GLR-like(2) 704 aa

MSTIVFPAGSCRPKQDLPIINSWYGRVKLEPRQRQAIRALAAHCDHTKRGKNTVPGQFTIS

RNLQSYFFVIVHTGALARRRVAYSVVNDSIQVVANAIRSLISASLWPKIYPRPANQDCPL
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ALYISVTDALRMKSVNPKVWVWGQYAEVVKCHNPNTPGSSLPKPKRVIKLTAVIEPPFL
DWRNGSIE TRPVSNESLQGFLLIDVINELSTVKADMALAPITITAERESKIDFSKPFMDFM
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TKKTSKNFIETLDDLTKQKKISYGLKGGSMASFFFEKSNTPCTRPCSMFVSVSTKEGVAR
VREGTYAYLTEQVMVTVIMMMMMMMAMIMACRRVWRGSDQVMMTVMMMAIMIEIIVPYLD
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>CN GLR-like(3) 1190 aa

MTPGITVDGIVEFVNINDLLENTQKAIISLVDRGAVAVIGPMEFVGVEAIQRFCESELQVPQ
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ADFEQLLNDNDEVVNVEHYVTPPELIKNSLRMLLELKNKGGARIVVLKCRAHYVPPVMAI
AREKGMGLDWWVIFTESALDEVQIVPHGLATRDRLRGIIVRQSIGGLYSRSVTKHWAD
YSHNKPLTPVVGVIDSVLVIKAKAIQNAVQAGDQVTSNAGLFCNLTRRNPPSISGITLN
KYIQKVQTAGFMGFLSFSQDGFANPSIDIINVKENEFDKGSPFTMPVGNVSSSVDRFEG
AVIDLDRLSEILHFNFTIYMSPDGRVGVENPVTGNWDGVINELIQERADLAVGPITITS
HRWKVIDFTQPFMTSGIVVMGTENS PKPYFRFLEPFKSDLWITIFGAVLGMGVVNWFLS
VVSFPGFYGRVQVQVINKRVKSYLQKYSLSFLNSIWSAAAYLQGGPDGNHPVSASGRA
AVAVWWFVITILGATYTANMAAFLTTTRMQTPIRRIEDLSSQTEIAYGCVENSLTQNFQ
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EEQDAKSSDTSKMGINMLGVFIFMVAGIAIGVLLVLEWVVAAYS DVKRDKRKREVRSN
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IVWMIIGTVIMSLFSGQMTADLASNVLSRDVSIAGR DVSKAQANQDCVLTVSSMKLLFLR
IFADIMSCRDRIRRCIPLVFIYIMFMGLVISGSYIITSLGQSNIGFKALGGLMIGTGVVVY
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DKSQLVRNIEHQFSIGAVVSGNFGIAQDFILCLHREITDMIAIEBAKVTGVEDPTNSDGT
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>CN Kv.1-like(1) 713 aa

MVLDSPHSFYVCPNRLDSIKVARDAEATLIKPTSASISRKPKICENEKGNMQRKSGQSTD
VFKCNMRYGLIEYAFVLVNVQVFTVSDQTTGCEGKPTYPYIRKQLRFLFPLKLRNALA
ANAWTCLGLPYSPRLSVAKALRFLTDKRRRLKRRRLWMLSDRMRTTGLLYLAERTTADM
DAISGIPSLTAGIDKGGQGTGYTDNFNNSHVRPRGQPTLVNKPVHLHSTQPPVGEATDRIL
INVSGLKFETHVQTLSENPDTLLGNVAKRKYDYSVRNEYFFDRNRPAFDALFYQSGG
KLLRPANVPMDFVADEIRFYELGDDVLHKVEQEEGYIEEEKPILPENKLQRQIWLFEFP
DTSMPARVAIFSVFVITLSIVTFCEITLPQFQKKEEDLYVSVNGTLVPVDRFDQWFS
METACI IWTFTEYIMRLISSPQKLIIFIRSFNLNMDIVAILPYYITLPMQDTKASSLGVLV
VIRLVRVFRIFKLSRHSRGLQLGHGTLRSLRELGLLIFFLIIGVILFSSAVYAEAGGK
GTHFKSIPDAFWAVVMTTVGYGDMRPITVWGKIVGSLCAISGVLTIALPVPVIVSNFN
YFYHRENEQRAAEASKKEKKEAERKLEKEEAQLDEQEVEKLTNSTQWGGKPRYEALD
RNGMNGPEHYTELEQITSIKDRKAANKANTAVVANSMPIVDYSDAKVRFETGV

>CN Kv.1-like(2) 471 aa

MLTTATTSASGGPHDLRGTSSIRYKQIIESMDGIGQTASVDTMDEPIVINVSGRKFETYE
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FINEVIFYDLPEALQSVLDAGIADEPEEKVLPKNQYLRVWETLEYPEYKSLAKFLAI
FSVVVIVLSLILFCVETLPEFMPQEVTKPKNATADWKPKDPYEETWFQLNTFVIVWFTA
EYILRLICSPKFLKFLAALNIDLLSILPYYVQLALDSGSSSISVLRVVRVVRVFRVFK
LSRHSRGLQILGNTLRASMNELMMLMFFLFIIVMIFASCVYAEAGGIDSPFRSIPHSFWW
AVVTMTTVGYGDISPESFPWGIIVGALCAISGVLTIALPVPVIVSNFENFYNKEINRRKEE
QLRKEEARRQKEKERRAKENELSPKPRGILVCGVNGCDEPATPVAHTTV

>CN Kv.1-like(3) 486 aa

MRMENCEVNNHVCERNVGFVEEEDEREITPFMQKTENHHKKKKEKGRKRIIINVSGLRFE
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FLLFKDEVIFFKLGKDNLKRLEEEGYIEETTRVLRPHHLQRRIWELFEYPPDSSMGARVL
AVWSVSVLLISIVVFCIETLPTFRCKTSPDNGCCKLLPGTNSADHPEVPEKSSAWLAL
EILCIAWFTLEYVVRLLSSPQKLLFVRSFLNVIDLMAILPYYITLPMKDLRITSLAVLRV
IRLVRVFRIFKLSRHSRGLQLGHGTLRASSRELAMLIFFLIISVLLFSSAVYAEAEAAA
SKFSSIPDAFWAVVMTTVGYGDMYVPTPWGKLVGSI CAISGVLTIALPVPVIVSNFNY
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KVETPV

>CN Erbin-like 1049 aa

MEKRENGKIDDLIPNCFNAGFDANMSVLELRHSNLTTVSHDLFKSKEGKALEEVYLD

ANQLRDLPRGLFNLQNLQVLGLSDNELTILPSVLSNLVNLRLILDFSKNGIIDIPETIKHC
KNLQEIDASVNPIGKIPETFCHLANLTHLYLND AFLDFLPGNFRSMSQLKNLERLDIGN
NEFTTELMVVGCLLNLTELWMDSNAIKELRPEIGLLRRLMFLDVSKNRLEWLPEIESLQ
SLTDLYLSNNLLIEIPEQIGALGKQLTKLEENHLGELPNSIGKLVLEELIILTCNELVV
SALGKQLTKLEENHLGELPNSIGKLVLEELIILTCNELVSLPPSLGYLRKLRVNLIDEN
FLESIPSELGSCAMTILSLRDNRLVHLPDSIGRMPKLQVINLASNRLEYLPSYFHKLV
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QQHQHQDKNNPPQPSAHHCQCHDKHSCGPHVPPTPLVQHPEPEAPPQLPPPPFIVDD
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SDTGMHSDHEGPPRPRNIAVAVPSRLTYEHNQDKPDNLPTSGRLLDDNRSISSQSSV
ASYGAIPPPVPYQTIIPRGATGPATRGPPSSASSHMSQHSFREGAPLETMMQGVDLRVP
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RGLGYDPSLPPIDRFESRVREIQERREERERRGNGYPVDSAPPVPSPPGQEEEFHV
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RNTTHDRAVFLKNNQVVDLLVSRKAAS

>CN ZO 1838 aa

MRGEESKGEYIYAKPKRPRDRGYDRERERRDRSIPRDDRLDSSRRSRHEDERSHSHQD
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VKGSPADGLLRVNDVICQVNEVNVDKCYHSDAVQALKDGSFARLANANQGFGIAVSGGK
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RLIIRKKAAMPNTLLKKTPTQITVTLHRTGSKGYGFLANRLYIKEDVPTGLAFYEGEI
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FKKLANGFPDERERLKRKRSQGRPDDKEGRERPRGRERSRERHGRERSRERPRRERPRE
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GPDREDDRASDISRDREEREKRDREDRDRDREHREERERERRDREDRERRDRDE
RDRDRDREDRERDRERDRERDRERERERERERERERERERERERERERERERERER
DDRERVRGRREEHVPKPAEVSRTQANMDLSALDSWDASTPRKVERNTSEYLRDQDTRS
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IDFKDITREEAVLILLSLGLDEVSLLYQPRQREFERNKDQPGDDFFIKAHFDYEAMEDGEL
AFKREEVHVTDITMYKGTIGSWYAGKVDLHDPHMGATGVI PNKCRAEQLATVRRVEEDK
TPKKEKPFSTNSLKRASLRKHKQFVSTDKLDMDSFVAQARDFKLPAYERVHRKHPGFVR
PVVLLGPLADIAIDKLLMDQPHVYAVPTAFGSTPGGKNARRLSYAAIKEVVDKHQHCLL
DIAPDEVERLNYCQLYPIVIHIDVKDKIAIKELRTSMGQSKESAKHIKCLFDDEAKLKKK
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YESNLDSPTTRSSI SRPPEEDLHPPERPREDEPYTSYNGPQVEYRDRERDRDRERDRER
DRDRDREPYDGYPPEDIDRASRPGYKPSGNVVQVLPSPQDPGNLRQSLRKTTPSSDYTD
RNGDYPIRDGYNPAEAEIKQRADNLKVEQRPEVFDYDQVEYGVKVSIDLWTIDNESRRR
KVAPVEVIVPQSTPVNDLQSAPEPKPYRFEPATKPRNVVIDRSGKETVAHTSYYPTRVHA
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YSSEQPPPRTPEPDNYFKLSRAPPEPRPGSYRSEYIPDPVISRSEYRSEVPDSVVTSDFES
LEDDTQVVATARGIFTHEGGVLSSEESGVSI FIPEGAIPKGVQEIYFKVCKENNIMPPL
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REVQQAETACGRQLQSPFVPI DVHGDADVVRVQLRDIADGWI SRACKYIEFQDTWEAY
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VTQSAQPNTSCKTTLYSNCNIVRTKSLSCRDVNTSTI