The test dataset contains 329 proteins, in which ‘1’ represents disordered residue and ‘0’ represents ordered residue.

==========

>1ABAA
MFKVYGYDSNIHKCGPCDNAKRLLTVKKQPFEFINIMPEKGVFDDEKIAELLTKLGRDTQIGLTM
PQVFAPDGSHIGGFDQLREYFK
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>1AMMA
GKITFYEDRGFQGHCYECSSDCPNLQPYFSRCNSIRVDSGCWMLYERPNYQGHQYFLRRGDYPDY
QQWMGFNDSIRSCRLIPQHTGTFRMRIYERDDFRGQMSEITDDCPSLQDRFHLTEVHSLNVLEGS
WVLYEMPSYRGRQYLLRPGEYRRYLDWGAMNAKVGSLRRVMDFY
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>1C75A
VDAEAVVQQKCISCHGGDLTGASAPAIDKAGANYSEEEILDIILNGQGGMPGGIAKGAEAEAVAA
WLAEKK
0000000000000000000000000000000000000000000000000000000000000000000
000000
>1FCXA
SPQLEELITKVSKAHQETFPSLCQLGKYTTNSSADHRVQLDLGLWDKFSELATKCIIKIVEFAKR
LPGFTGLSIADQITLLKAACLDILMLRICTRYTPEQDTMTFSDGLTLNRTQMHNAGFGPLTDLVF
AFAGQLLPLEMDDTETGLLSAICLICGDRMDLEEPEKVDKLQEPLLEALRLYARRRRPSQPYMFP
RMLMKITDLRGISTKGAERAITLKMEIPGPMPPLIREMLE
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000
>1G66A
SCPAIHVFGARETTASPGYGSSSTVVNGVLSAYPGSTAEAINYPACGGQSSCGGASYSSSVAQGI
AAVASAVNSFNSQCPSTKIVLVGYSQGGEIMDVALCGGGDPNQGYTNTAVQLSSSAVNMVKAAIF
MGDPMFRAGLSYEVGTCAAGGFDQRPAGFSCPSAAKIKSYCDASDPYCCNGSNAATHQGYGSEYG
SQALAFVKSKLG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
000000000000
>1HNJA
MYTKIIGTGSYLPEQVRTNADLEKMVDTSDEWIVTRTGIRERHIAAPNETVSTMGFEAATRAIEM
AGIEKDQIGLIVVATTSATHAFPSAACQIQSMLGIKGCPAFDVAAACAGFTYALSVADQYVKSGA
VKYALVVGSDVLARTCDPTDRGTIIIFGDGAGAAVLAASEEPGIISTHLHADGSYGELLTLPNAD
RVNPENSIHLTMAGNEVFKVAVTELAHIVDETLAANNLDRSQLDWLVPHQANLRIISATAKKLGM
SMDNVVVTLDRHGNTSAASVPCALDEAVRDGRIKPGQLVLLEAFGGGFTWGSALVRF

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>1I27A
GPLGSGDVQVTEDAVRRYLTRKPMTTKDLLKKFQTKKTGLSSEQTVNVLAQILKRLNPERKMIND
KMHFSLKE
0000000000000000000000000000000000000000000000000000000000000000000000
00000000
>1KT5A
ERDCRVSSFRVKENFDKARFAGTWYAMAKKDPEGLFLQDNIVAEFSVDENGHMSATAKGRVRLLN
NWDVCADMVGTFTDTEDPAKFKMKYWGVASFLQKGNDDHWIIDTDYETFAVQYSCRLLNLDGTCA
DSYSFVFARDPSGFSPEVQKIVRQRQEELCLARQYRLIPHNGYCD
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>1M4LA
ARSTNTFNYATYHTLDEIYDFMDLLVAEHPQLVSKLQIGRSYEGRPIYVLKFSTGGSNRPAIWID
LGIHSREWITQATGVWFAKKFTEDYGQDPSFTAILDSMDIFLEIVTNPDGFAFTHSQNRLWRKTR
SVTSSSLCVGVDANRNWDAGFGKAGASSSPCSETYHGKYANSEVEVKSIVDFVKDHGNFKAFLSI
HSYSQLLLYPYGYTTQSIPDKTELNQVAKSAVAALKSLYGTSYKYGSIITTIYQASGGSIDWSYN
QGIKYSFTFELRDTGRYGFLLPASQIIPTAQETWLGVLTIMEHTVNN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>1OK0A
DTTVSEPAPSCVTLYQSWRYSQADNGCAETVTVKVVYEDDTEGLCYAVAPGQITTVGDGYIGSHG
HARYLARCL
0000000000000000000000000000000000000000000000000000000000000000000000
000000000
>1PPTA
GPSQPTYPGDDAPVEDLIRFYDNLQQYLNVVTRHRY
0000000000000000000000000000000000000
>1QDDA
QEAQTELPQARISCPEGTNAYRSYCYYFNEDRETWVDADLYCQNMNSGNLVSVLTQAEGAFVASL
IKESGTDDFNVWIGLHDPKKNRAWHWSSGSLVSYKSWGIGAPSSVNPGYCVSLTSSTGFQKWKDV
PCEDKFSFVCKFKN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>1UKFA

SLSDFSVASRDVNHNNICAGLSTEWLVMSSDGDAESRMDHLDYNGEGQSRGSERHQVYNDALRAA
LSNDDEAPFFTASTAVIEDAGFSLRREPKTVHASGGSAQLGQTVAHDVAQSGRKHLLSLRFANVQ
GHAIACSCEGSQFKLFDPNLGEFQSSRSAAPQLIKGLIDHYNSLNYDVACVNEFRVSV
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>1UKUA
MIIVYTTFPDWESAEKVVKTLLKERLIACANLREHRAFYWWEGKIEEDKEVGAILKTREDLWEEL
KERIKELHPYDVPAIIRIDVDDVNEDYLKWLIEETKK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>1V7RA
MKIFFITSNPGKVREVANFLGTFGIEIVQLKHEYPEIQAEKLEDVVDFGISWLKGKVPEPFMIED
SGLFIESLKGFPGVYSSYVYRTIGLEGILKLMEGAEDRRAYFKSVIGFYIDGKAYKFSGVTWGRI
SNEKRGTHGFGYDPIFIPEGSEKTFAEMTIEEKNALSHRGKALKAFFEWLKVNLKY
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>1Y0MA
TFKSAVKALFDYKAQREDELTFTKSAIIQNVEKQDGGWWRGDYGGKKQLWFPSNYVEEMIN
0000000000000000000000000000000000000000000000000000000000000000
>1ZLMA
GQVKVFRALYTFEPRTPDELYFEEGDIIYITDMSDTNWWKGTSKGRTGLIPSNYVAEQ
0000000000000000000000000000000000000000000000000000000000000
>2A6ZA
GSDASKLSSDYSLPDLINTRKVPNNWQTGEQASLEEGRIVLTSNQNSKGSLWLKQGFDLKDSFTM
EWTFRSVGYSGQTDGGISFWFVQDSNIPRDKQLYNGPVNYDGLQLLVDNNGPLGPTLRGQLNDGQ
KPVDKTKIYDQSFASCLMGYQDSSVPSTIRVTYDLEDDNLLKVQVDNKVCFQTRKVRFPSGSYRI
GVTAQNGAVNNNAESFEIFKMQFFNGV
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>2ERFA
GGDNSVFDIFELTGAARKGSGRRLVKGPDPSSPAFRIEDANLIPPVPDDKFQDLVDAVRTEKGFL
LLASLRQMKKTRGTLLALERKDHSGQVFSVVSNGKAGTLDLSLTVQGKQHVVSVEEALLATGQWK
SITLFVQEDRAQLYIDCEKMENAELDVPIQSVFTRDLASIARLRIAKGGVNDNFQGVLQNVRFVF
GTTPEDILRNKGCS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>2FDNA
AYVINEACISCGACEPECPVNAISSGDDRYVIDADTCIDCGACAGVCPVDAPVQA

0000000000000000000000000000000000000000000000000000000
>2H8EA
MNTYSITLPWPPSNNRYYRHNRGRTHVSAEGQAYRDNVARIIKNAMLDIGLAMPVKIRIECHMPD
RRRRNLDNLQKAAFDALTKAGFWLDDAQVVDYRVVKMPVTKGGRLELTITEMGNE
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000
>2HD9A
MTYWICITNRENWEVIKRHNVWGVPKKHKNTLSRVKPGDKLVIYVRQEKDKEGNLLEPKIVGIYE
VTSEPYVDFSRIFKPHRGGKETYPYRVKIKPIKIGEINFKPLINDLKFIKNKKRWSMHFFGKAMR
ELPEEDYKLIEKLLL
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>2IMFA
MIVDFYFDFLSPFSYLANQRLSKLAQDYGLTIRYNAIDLARVKIAIGNVGPSNRDLKVKLDYLKV
DLQRWAQLYGIPLVFPANYNSRRMNIGFYYSGAEAQAAAYVNVVFNAVWGEGIAPDLESLPALVS
EKLGWDRSAFEHFLSSNAATERYDEQTHAAIERKVFGVPTMFLGDEMWWGNDRLFMLESAMGRLC
RQNADLSS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000
>2IZKA
AEAGITGTWYNQLGSTFIVTAGADGALTGTYESAVGNAESRYVLTGRYDSAPATDGSGTALGWTV
AWKNNYRNAHSATTWSGQYVGGAEARINTQWLLTSGTTEANAWKSTLVGHDTFTKVKP
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000
>2NVGA
LASIFVDVSSVEPGVQLTVKFLGKPIFIRRRTEADIELGRSVQLGQLVDTNARNANIDAGAEATD
QNRTLDEAGEWLVMWGVCTHLGCVPIGGVSGDFGGWFCPCHGAHYDSAGRIRKGPAPENLPIPLA
KFIDETTIQLG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000000
>2PNDA
GHPTLKTPESVTGTWKGDVKIQCIYDPLRGYRQVLVKWLVRHGSDSVTIFLRDSTGDHIQQAKYR
GRLKVSHKVPGDVSLQINTLQMDDRNHYTCEVTWQTPDGNQVIRDKIIELRVRK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000
>2PY0A
EGTAFARSEGASALASVNPLKTTVEEALSRGWSVKSGTGTEDATKKEVPLGVAADANKLGTIALK
PDPADGTADITLTFTMGGAGPKNKGKIITLTRTAADGLWKCKSDQDPQFIPKGCS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000

>2QO8A
SHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDTHTAKYDPSLKPLSVSYDQATSLRILNNGHAF
NVEFDDSQDKAVLKGGPLDGTYRLIQFHFHWGSLDGQGSEHTVDKKKYAAELHLVHWNTKYGDFG
KAVQQPDGLAVLGIFLKVGSAKPGLQKVVDVLDSIKTKGKSADFTNFDPRGLLPESLDYWTYPGS
LTTPPLLECVTWIVLKEPISVSSEQVLKFRKLNFNGEGEPEELMVDNWRPAQPLKNRQIKASFK
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>2Y24A
DTVKIDANVNYQIIQGFGGMSGVGWINDLTTEQINTAYGSGVGQIGLSIMRVRIDPDSSKWNIQL
PSARQAVSLGAKIMATPWSPPAYMKSNNSLINGGRLLPANYSAYTSHLLDFSKYMQTNGAPLYAI
SIQNEPDWKPDYESCEWSGDEFKSYLKSQGSKFGSLKVIVAESLGFNPALTDPVLKDSDASKYVS
IIGGHLYGTTPKPYPLAQNAGKQLWMTEHYVDSKQSANNWTSAIEVGTELNASMVSNYSAYVWWY
IRRSYGLLTEDGKVSKRGYVMSQYARFVRPGALRIQATENPQSNVHLTAYKNTDGKMVIVAVNTN
DSDQMLSLNISNANVTKFEKYSTSASLNVEYGGSSQVDSSGKATVWLNPLSVTTFVSK
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>2Y88A
MPLILLPAVNVVEGRAVRLVQGKAGSQTEYGSAVDAALGWQRDGAEWIHLVDLDAAFGRGSNHEL
LAEVVGKLDVQVELSGGIRDDESLAAALATGCARVNVGTAALENPQWCARVIGEHGDQVAVGLDV
QIIDGEHRLRGRGWETDGGDLWDVLERLDSEGCSRFVVTDITKDGTLGGPNLDLLAGVADRTDAP
VIASGGVSSLDDLRAIATLTHRGVEGAIVGKALYARRFTLPQALAAVRD
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>3A38A
AAPANAVTADDPTAIALKYNQDATKSERVAAARPGLPPEEQHCANCQFMQANVGEGDWKGCQLFP
GKLINVNGWCASWTLKAG
0000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>3B3TA
MPPITQQATVTAWLPQVDASQITGTISSLESFTNRFYTTTSGAQASDWIASEWQALSASLPNASV
KQVSHSGYNQKSVVMTITGSEAPDEWIVIGGHLDSTIGSHTNEQSVAPGADDNASGIAAVTEVIR
VLSENNFQPKRSIAFMAYAAEEVGLRGSQDLANQYKSEGKNVVSALQLDMTNYKGSAQDVVFITD
YTDSNFTQYLTQLMDEYLPSLTYGFDTCGYACSDHASWHNAGYPAAMPFESKFNDYNPRIHTTQD
TLANSDPTGSHAKKFTQLGLAYAIEMGSATG
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>3JTMA
DSKKIVGVFYKANEYATKNPNFLGCVENALGIRDWLESQGHQYIVTDDKEGPDCELEKHIPDLHV
LISTPFHPAYVTAERIKKAKNLKLLLTAGIGSDHIDLQAAAAAGLTVAEVTGSNVVSVAEDELMR
ILILMRNFVPGYNQVVKGEWNVAGIAYRAYDLEGKTIGTVGAGRIGKLLLQRLKPFGCNLLYHDR
LQMAPELEKETGAKFVEDLNEMLPKCDVIVINMPLTEKTRGMFNKELIGKLKKGVLIVNNARGAI
MERQAVVDAVESGHIGGYSGDVWDPQPAPKDHPWRYMPNQAMTPHTSGTTIDAQLRYAAGTKDML
ERYFKGEDFPTENYIVKDGELAPQYR
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>3OD3A
AERPTLPIPDLLTTDARNRIQLTIGAGQSTFGGKTATTWGYNGNLLGPAVKLQRGKAVTVDIYNQ
LTEETTLHWHGLEVPGEVDGGPQGIIPPGGKRSVTLNVDQPAATCWFHPHQHGKTGRQVAMGLAG
LVVIEDDEILKLMLPKQWGIDDVPVIVQDKKFSADGQIDYQLDVMTAAVGWFGDTLLTNGAIYPQ
HAAPRGWLRLRLLNGCNARSLNFATSDNRPLYVIASDGGLLPEPVKVSELPVLMGERFEVLVEVN
DNKPFDLVTLPVSQMGMAIAPFDKPHPVMRIQPIAISASGALPDTLSSLPALPSLEGLTVRKLQL
SMDPMLDMMGMQMLMEKYGDQAMAGMDHSQMMGHMGHGNMNHMNHGGKFDFHHANKINGQAFDMN
KPMFAAAKGQYERWVISGVGDMMLHPFHIHGTQFRILSENGKPPAAHRAGWKDTVKVEGNVSEVL
VKFNHDAPKEHAYMAHCHLLEHEDTGMMLGFTV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>3R72A
MSMSADQVEKLAKNMRKSCLQKIAITEELVDGMRRGEFPDDHDLQCYTTCIMKLLRTFKNGNFDF
DMIVKQLEITMPPEEVVIGKEIVAVCRNEEYTGDDCQKTYQYVQCHYKQNPEKFFFP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>3TOWA
MDPITGVGVVASRNRAPTGYDVVAQTADGVDADLWKDGLFKSKVTRYLCFTRSFSKENSHLGNVL
VDMKLIDIKDTLPVGFIPIQETVDTQEVAFRKKRLCIKFIPRDSTEAAICDIRIMGRTKQAPPQY
TFIGELNSMGIWYRMGHHHHHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000
>3TUAA
PNSLEAQIRQAMKTGSTLTIEFDQALNQKSPGTLNVFLHPANGGVRIDLDSGNQGEPAKILWLPW
KQGELQTLQPGSISTVDMLFFTYYLSGSKVFAGDGGPVWHIDAPVEANQFWRRMSSDEWMEDWEV
GTDRQVAYLHRAGQSDSLWNLSAYLEGAAPSTYGRDNLGQAVVGGIVTGRQQMSLYQYATTSSGS
SAWSPLTYTLQQRKQ
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>3U7TA
TTCCPSIVARSNFNVCRLPGTSEAICATYTGCIIIPGATCPGDYAN
0000000000000000000000000000000000000000000000
>3URDA
ANIVGGIEYSINNASLCSVGFSVTRGATKGFVTAGHCGTVNATARIGGAVVGTFAARVFPGNDRA
WVSLTSAQTLLPRVANGSSFVTVRGSTEAAVGAAVCRSGRTTGYQCGTITAKNVTANYAEGAVRG
LAQGNACMGRGDSGGSWITSAGQAQGVMSGGNVQSNGNNCGIPASQRSSLFERLQPILSQYGLSL
VTG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
000
>3VORA
GSDSRTVSELVTNTNTIRVAMKDAYQRDGKYPDYQAPLSLTADSIKTDSTGIAVAQLVQLGKLTP
DEARNGISGDYIGIGGAITSSGSTINKGFAMELNGLSQEQCRSILGQVGDNWEYVAVGTSPSGSY
DALSAGAVNMLAATDNTTILRSLAANGQVSLTAEKILKTCTATVNSITLASR
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>3W8DA
MLKGKKAVVTGSTSGIGLAMATELAKAGADVVINGFGQPEDIERERSTLESKFGVKAYYLNADLS
DAQATRDFIAKAAEALGGLDILVNNAGIQHTAPIEEFPVDKWNAIIALNLSAVFHGTAAALPIMQ
KQGWGRIINIASAHGLVASVNKSAYVAAKHGVVGLTKVTALENAGKGITCNAICPGWVRTPLVEK
QIEAISQQKGIDIEAAARELLAEKQPSLQFVTPEQLGGAAVFLSSAAADQMTGTTLSLDGGWTAR
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
>3ZFPA
MEPLYDKNGAVLFGEPSDTHPQSTLKLPHPRGEKEVIVGIRDLPRKGDCRTGNRLGPVSGLFVKP
GPVFYQDYSGPVYHRAPLEQFKQAPMCEVTKRIGRVTGSDGNLYHMYVCTDGCILVKTAKHHHHH
VLKWVYNVLDSPIWVTSC
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000

000000000000000000
>4ACJA
GNEPSDLLEAEQIEKLAKHLPPRTIGYPWNLAFSTSKHGMSIKTLYRAMQDQDSPMLLVIKDSDG
QIFGALASEPFKVSEGFYGTGETFLFTFYPEFEAYKWTGDNLFFIKGDMDSLAFGGGSGEFGLWL
DGDLYHGRNHSCKTFGNPMLSMKEDFFVQDIEIWSFE
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000
>4BEUA
APLHIDTALPDAAQIQQSNSWLEISLGQFQSNIEQFKSHMNANTKICAIMKADAYGNGIRGLMPT
IIAQGIPCVGVASNAEARAVRESGFKGELIRVRSASLSEMSSALDLNIEELIGTHQQALDLAELA
KQSGKTLKVHIALNDGGMGRNGIDMTTEAGKKEAVSIATQPSLSVVGIMTHFPNYNADEVRAKLA
QFKESSTWLMQQANLKREEITLHVANSYTALNVPEAQLDMVRPGGVLFGDLPTNPEYPSIVSFKT
RVSSLHHLPKDSTVGYDSTFTTSRDSVLANLPVGYSDGYPRKMGNKAEVLINGQRAKVVGVTSMN
TTVVDVTEIKGVLPGQEVVLFGQQQKQSIAVSEMENNAELIFPELYTLWGTSNPRFYVKSSGHHH
HH
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
00
>4CFIA
DGVSILQTASSGLTSLTNSLQRIRQLAVQASNGPLSASDASALQQEVAQQISEVNRIASQTNYNG
KNILDGSAGTLSFQVGANVGQTVSVDLTQSMSAAKIGGGMVQTGQTLGTIKVAIDSSGAAWSSGS
TGQETTQINVVSDGKGGFTFTDQNNQALSSTAVTAVFGSSTAGTGTAASPSFQTLALSTSATSAL
SATDQANATAMVAQINAVNKPQTVSNLDISTQTGAYQAMVSIDNALATVNNLQATLGAAQNRF
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000
>4D3PA
GSHMASQVGVIKPWLLLGSQDAAHDLDTLKKNKVTHILNVAYGVENAFLSDFTYKSISILDLPET
NILSYFPECFEFIEEAKRKDGVVLVHANAGVSRAAAIVIGFLMNSEQTSFTSAFSLVKNARPSIC
PNSGFMEQLRTYQEGKE
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>4LUKA
MYKEPFGVKVDFETGIIEGAKKSVRRLSDMEGYFVDERAWKELVEKEDPVVYEVYAVEQEEKEGD
LNFATTVLYPGKVGKEFFFTKGHFHAKLDRAEVYVALKGKGGMLLQTPEGDAKWISMEPGTVVYV
PAGWAHRTVNIGDEPFIFLAIYPADAGHDYGTIAEKGFSKIVIEENGEVKVVDNPRWKK
000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>4NX6A
MISLIAALAVDRVIGMENAMPWNLPADLAWFKRNTLNKPVIMGRHTWESIGRPLPGRKNIILSSQ
PGTDDRVTWVKSVDEAIAACGDVPEIMVIGGGRVYEQFLPKAQKLYLTHIDAEVEGDTHFPDYEP
DDWESVFSEFHDADAQNSHSYCFEILERR
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>4PF4A
HMTVFRQENVDDYYDTGEELGSGQFAVVKKCREKSTGLQYAAKFIKKRRTKSSRRGVSREDIERE
VSILKEIQHPNVITLHEVYENKTDVILILELVAGGELFDFLAEKESLTEEEATEFLKQILNGVYY
LHSLQIAHFDLKPENIMLLDRNVPKPRIKIIDFGLAHKIDFGNEFKNIFGTPEFVAPEIVNYEPL
GLEADMWSIGVITYILLSGASPFLGDTKQETLANVSAVNYEFEDEYFSNTSALAKDFIRRLLVKD
PKKRMTIQDSLQHPWIKP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>4QPTA
YGPHADSPVLMVYGLDQSKMNCDRVFNVFCLYGNVEKVKFMKSKPGAAMVEMADGYAVDRAITHL
NNNFMFGQKMNVCVSKQPAIMPGQSYGLEDGSCSYKDFSESRNNRFSTPEQAAKNRIQHPSNVLH
FFNAPLEVTEENFFEICDELGVKRPTSVKVFSGKSERSSSGLLEWDSKSDALETLGFLNHYQMKN
PNGPYPYTLKLCFSTAQHAS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>4VUBA
MQFKVYTYKRESRYRLFVDVQSDIIDTPGRRMVIPLASARLLSDKVSRELYPVVHIGDESWRMMT
TDMASVPVSVIGEEVADLSHRENDIKNAINLMFWGI
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>4W8BA
KDAQAIAKDMYPGWNLGNTLEATGSGLDAETSWQPTLTTQQIIDAVKAAGFKSVRIPCSWDIHSD
SNGEIDAQWMARVKQVVNYCINDGIYVVLNDHWDNGWIEVLGFSKSSSSYQAVDEATITSKITRL
KDLWTQIANEFKDYDEHLLFAGLNEPFQEYSLFSGHHEELTPILCRYNQAFVEAVRATGGNNAQR
TLVVQGPSTNINSSVNYMTADKLPETAGRLMVEVHYYDPGQFCGTFDASGDNAFYFWGAANHSTD
HNATYGEEAYMLSQFGLLKTAYTSLGYPVIIGEYAALQRTISGDQNKHNASVKYFYQCVNEYATN
NGIIAFAWDTNDTNGLNSEGGSSTIIDRANSAVVGNNAMEGVKAGVAAGKWPFLEHHHHHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>4WBRD
AIGGPFQLTDQNGKAVTDKSLKGKPTLIFFGYTHCPDVCPTSLFEISEVLRAMGKDADKVNAIFI
SVDPERDTPATMKNYLSSFDPHLEGLSGDPAEIAKVITSYRVYAKKVPTKDGDYTMDHTALIYLM
DRDGRFVSPFNLKRTPEEAAADLKRYL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>4XLAA
DPDQFRAIIESPEGAGHVGYQYRRNTGSTMRMVSDVLDERVSLWDFHCDPSGNVIQPGPNVDSRQ
YLQAAIDYVSSNGGGTITIPAGYTWYLGSYGVGGIAGHSGIIQLRSNVNLNIEGRIHLSPFFDLK
PFQVFVGFDNGDPASSGNLENCHIYGHGVVDFGGYEFGASSQLRNGVAFGRSYNCSVTGITFQNG
DVTWAITLGWNGYGSNCYVRKCRFINLVNSSVNAAHSTVYVNCPYSGVESCYFSMSSSFARNIAC
SVELHQHDTFYRGSTVNGYCRGAYVVMHAAEAAGAGSYAYNMQVENNIAVIYGQFVILGSDVTAT
VSGHLNDVIVSGNIVSIGERAAFSAPFGAFIDIGPDNSGASNVQDIQRVLVTGNSFYAPANITDS
AAITLRANLNGCTFIANNFDCRYMVYNAPGTTSPVVQNLVWDKSNVIGGTHANQRAGQNLFDMQF
ASVVNSTIEVQLSCEDLSMFSCILFPASCQLSYSKITVDSAWTKSMSNTAVFEGNQQAGANVYVS
YPATVNLTSYNTQGAVPFFSTDTNYAWVTSAYSLSINENLDFSPPATYTNKANGQLVGVGYNEIG
GVRSVSVRLMLQRQV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>4YPCA
VDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAENTLQSFRQDVDNASLARLDLERKVE
SLQEEIAFLKKLHEEEIQ
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>4Z7PA
RSCIDTIPKSRCTAFKCKHSMKYRLSFCRKTCGTC
0000000000000000000000000000000000000
>5DGTA
ASVHGTTYELLRRQGIDTVFGNPGSNELPFLKDFPEDFRYILALQEACVVGIADGYAQASRKPAF
INLASAAGTGNAMGALSNAWNSHSPLIVTAGQQTRAMIGVEALLTNVDAANLPRPLVKWSYEPAS
AAEVPHAMSRAIHMASMAPQGPVYLSVPYDDWDKDADPQSHHLFDRHVSSSVRLNDQDLDILVKA
LNSASNPAIVLGPDVDAANANADCVMLAERLKAPVWVAPSAPRCPFPTRHPCFRGLMPAGIAAIS

QLLEGHDVVLVIGAPVFRYHQYDPGQYLKPGTRLISVTCDPLEAARAPMGDAIVADIGAMASALA
NLVEESSRQLPTAAPEPAKVDQDAGRLHPETVFDTLNDMAPENAIYLNESTSTTAQMWQRLNMRN
PGSYYFCAAGGLGFALPAAIGVQLAEPERQVIAVIGDGSANYSISALWTAAQYNIPTIFVIMNNG
TYGALRWFAGVLEAENVPGLDVPGIDFRALAKGYGVQALKADNLEQLKGSLQEALSAKGPVLIEV
STVS
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000
>5E9PA
SGEYTEIALPFSYDGAGEYYWKTDQFSTDPNDWSRYVNSWNLDLLEINGTDYTNVWVAQHQIPAA
SDGYWYIHYKSGVSWGHVEIK
0000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>5ECAA
SHMTFVALYDYVASGETDLSFKKGERLQIVNNTEGDWWLAHSLTTGRTGYIPSNYVAPSD
0000000000000000000000000000000000000000000000000000000000000
>5G3AA
CPTLDDTARGAYPIDSSQTYRIARLCLQPTTFLVKENGEFVPTKLVTRETTSLDQIQGELKVNSD
GSLTFVEEDGIDFQPVTVQMAGGERIPLLFTVKNLVASTQPNVTSITTSTDFKGEFNVNGTKGQI
SLNVAKVDGRTGEIAGTFESEQLSNGHEVKIQGVFYASIEPA
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>5ICUA
HSFLVDASPSAKDHVAASPKLVKLRFGGGVEPAYSSISILDSTGKLVVEGAKGQADKPRELTLDA
PELAVGSYVVKFRVLSSDGHIVEGKYEFTVDPHENLY
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>5L74A
TGNCSAHQLCLSCVNSAFRCHWCKYRNLCTHDPTTCSFQEGRINVSEDCPQLVPTEEILIPVGEV
KPITLKARNLPQPQSGQRGYECVLSIQGAVHRVPALRFNSSSVQCQNSSYQYDGMDISNLAVDFA
VVWNGNFIIDNPQDLKVHLYK
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>5OLLA
EQCVKKDELCIPYYLDCCEPLECKKVNWWDHKCIG
0000000000000000000000000000000000

>5ONNA
MIVKHLEEIVDTKDDIDTTTWNSRRLLLTKDGMGFSLNDTLIKAGTETLIWYKNHVEAVYCIEGE
GEIEVVGGETYPITPGMMYALDGHEKHYLRARSQMRMVCVFNPPLTGAEVHDEEGTYPLLAPITD
GSAWSHPQ
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000
>5W3RA
GSHMDQPLSGYPWFHGMLSRLKAAQLVLTGGTGSHGVFLVRQSETRRGEYVLTFNFQGKAKHLRL
SLNAAGQCRVQHLHFQSIFDMLEHFRVHPIPLESGGSSDVVLVSYVPSS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>5X2EA
DSFINIFVSIDKDGTNVISYPELEQYVAENNLDPSMVEKWKQLFDPDNTGSITLETFCSKLGLKP
AEIIDFREQKGLHAA
0000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>5X2JA
MAFELPNLPYGFRALEPHIDQQTMEIHHDKHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPE
NIQTAVRNNGGGHLNHSLFWELLTPNSEEKGTVVDKIKEQWGSLDAFKEEFANQAAARFGSGWAW
LVVNDGKLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYISAFWNVVNWEKVDELY
NAAK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000
>5X57A
YRPTTDADKIEDEVTRQVAQCKCAKRFQVEQIGENKYRFGDSQQLRLVRILRSTVMVRVGGGWMA
LDEFLVKNDPCRARGR
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>5XH3A
NPYARGPNPTAASLEASAGPFTVRSFTVSRPSGYGAGTVYYPTNAGGTVGAIAIVPGYTARQSSI
KWWGPRLASHGFVVITIDTNSTLDQPSSRSSQQMAALGQVASLNGTSSSPIYGKVDTARMGVMGW
AMGGGGSLISAANNPSLKAAAPQAPWDSSTNFSSVTVPTLIFACENDSIAPVNSSALPIYDSMSR
NAKQFLEINGGSHSCANSGNSNQALIGKKGVAWMKRFMDNDTRYSTFACENPNSTRVSDFRTANC
S
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0
>5XMOA
ADFEVHMLNKGKDGAFVFEPASLKVAPGDTVTFIPKDKGHNVETIKGMIPDGAEAFKSKINENYK

VTFTAPGVYGVKCTPHYGMGMVGVVQVGDAPANLEAVKGAKNPKKAQERLDAALAALGN
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>5Z05A
YKLICYYTSWSQYREGDGSCFPDAIDPFLCTHVIYSFANISNNEIDTWEWNDVTLYDTLNTLKNR
NPKLKTLLSVGGWNFGSQRFSKIASKTQSRRTFIKSVPPFLRTHGFDGLDLAWLYPGWRDKRHLT
TLVKEMKAEFVREAQAGTEQLLLSAAVPAGKIAIDRGYDIAQISRHLDFISLLTYDFHGAWRQTV
GHHSPLFRGQEDASSRFSNADYAVSYMLRLGAPANKLVMGIPTFGKSYTLASSKTDVGAPISGPG
IPGQFTKEKGILAYYEICDFLHGATTHRFRDQQVPYATKGNQWVAYDDQESVKNKARYLKNRQLA
GAMVWALDLDDFRGTFCGQNLAFPLTNAIKDVLAGV
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>6F53A
LPTAQEVQGLMARYIELVDVGDIEAIVQMYADDATVEDPFGQPPIHGREQIAAFYRQGLGGGKVR
ACLTGPVRASHNGCGAMPFRIEMVWNGQPCAVDAISVMRFDEHGRIQTMQAYWSEVNLSV
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>6F9XA
KVFGRCELAAAMKRHGLDNYRGYSLGNWVCAAKFESNFNTQATNRNTDGSTDYGILQINSRWWCN
DGRTPGSRNLCNIPCSALLSSDITASVNCAKKIVSDGNGMNAWVAWRNRCKGTDVQAWIRGC
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>6G3RA
KAAAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTV
FDAKRLIGRKFGDPVVQSDMKHWPFQVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAE
AYLGYPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLI
FDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRR
LRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLD
KAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>6GGPA
AIDEIKSRGYLLVGLSADFPPFEFVDENGNIVGFDVDLAKEIARRLGVELKIVDMTFDGLIPSLL
TKKIDVIISGMTITEERKKVVAFSDPYFDAGQVIVVRKDSDFRPKTYEDLVGKTVAVQIGTTGDI
EVSKYDGIKVVRFDKFTDAFLELKRGRADAVVLDSATARAFVAKNPDLVISSGVLSSEQYGIAVR
KEDTDLLEFINSVLREL

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>6HG0A
RDFNNLTKGLCTINSWHIYGKDNAVRIGEDSDVLVTREPYVSCDPDECRFYALSQGTTIRGKHSN
GTIHDRSQYRALISWPLSSPPTVYNSRVECIGWSSTSCHDGKTRMSICISGPNNNASAVIWYNRR
PVTEINTWARNILRTQESECVCHNGVCPVVFTDGSATGPAETRIYYFKEGKILKWEPLAGTAKHI
EECSCYGERAEITCTCRDNWQGSNRPVIRIDPVAMTHTSQYICSPVLTDNPRPNDPTVGKCNDPY
PGNNNNGVKGFSYLDGVNTWLGRTISIASRSGYEMLKVPNALTDDKSKPTQGQTIVLNTDWSGYS
GSFMDYWAEGECYRACFYVELIRGRPKEDKVWWTSNSIVSMCSSTEFLGQWDWPDGAKIEYFL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>6N3DA
GSMRHERVVIIKNMFHPMDFEDDPLVLNEIREDLRVECSKFGQIRKLLLFDRHPDGVASVSFRDP
EEADYCIQTLDGRWFGGRQITAQAWDGTTDY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>1A44A
PVDLSKWSGPLSLQEVDERPQHPLQVKYGGAEVDELGKVLTPTQVKNRPTSITWDGLDPGKLYTL
VLTDPDAPSRKDPKYREWHHFLVVNMKGNNISSGTVLSDYVGSGPPKGTGLHRYVWLVYEQEGPL
KCDEPILSNRSGDHRGKFKVASFRKKYELGAPVAGTCYQAEWDDYVPKLYEQLSG
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>1AHRA
ADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDF
PEFLTMMARKMKDSEEEIREAFRVFDKDGNGFISAAELRHVMTNLGEKLTDEEVDEMIREADIDG
DGQVNYEEFVTMMTSK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>1AIEA
EYFTLQIRGRERFEMFRELNEALELKDAQAG
0000000000000000000000000000000
>1AJJA
PCSAFEFHCLSGECIHSSWRCDGGPDCKDKSDEENCA
0000000000000000000000000000000000000
>1BD8A
RAGDRLSGAAARGDVQEVRRLLHRELVHPDALNRFGKTALQVMMFGSTAIALELLKQGASPNVQD

TSGTSPVHDAARTGFLDTLKVLVEHGADVNVPDGTGALPIHLAVQEGHTAVVSFLAAESDLHRRD
ARGLTPLELALQRGAQDLVDILQGHM
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>1BG0A
VDQATLDKLEAGFKKLQEASDCKSLLKKHLTKDVFDSIKNKKTGMGATLLDVIQSGVENLDSGVG
IYAPDAESYRTFGPLFDPIIDDYHGGFKLTDKHPPKQWGDINTLVGLDPAGQFIISTRVRCGRSL
QGYPFNPCLTAEQYKEMEEKVSSTLSSMEDELKGTYYPLTGMSKATQQQLIDDHFLFKEGDRFLQ
TANACRYWPTGRGIFHNDAKTFLVWVNEEDHLRIISMQKGGDLKTVYKRLVTAVDNIESKLPFSH
DDRFGFLTFCPTNLGTTMRASVHIQLPKLAKDRKVLEDIASKFNLQVRGTRGEHTESEGGVYDIS
NKRRLGLTEYQAVREMQDGILEMIKMEKAAA
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>1BM8A
QIYSARYSGVDVYEFIHSTGSIMKRKKDDWVNATHILKAANFAKAKRTRILEKEVLKETHEKVQG
GFGKYQGTWVPLNIAKQLAEKFSVYDQLKPLFDF
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>1BRTA
PFITVGQENSTSIDLYYEDHGTGQPVVLIHGFPLSGHSWERQSAALLDAGYRVITYDRRGFGQSS
QPTTGYDYDTFAADLNTVLETLDLQDAVLVGFSTGTGEVARYVSSYGTARIAKVAFLASLEPFLL
KTDDNPDGAAPQEFFDGIVAAVKADRYAFYTGFFNDFYNLDENLGTRISEEAVRNSWNTAASGGF
FAAAAAPTTWYTDFRADIPRIDVPALILHGTGDRTLPIENTARVFHKALPSAEYVEVEGAPHGLL
WTHAEEVNTALLAFLAK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>1C53A
ADGAALYKSCVGCHGADGSKQAMGVGHAVKGQKADELFKKLKGYADGSYGGEKKAVMTNLVKRYS
DEEMKAMADYMSKL
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>1CQWA
IGTGFPFDPHYVEVLGERMHYVDVGPRDGTPVLFLHGNPTSSYLWRNIIPHVAPSHRCIAPDLIG
MGKSDKPDLDYFFDDHVRYLDAFIEALGLEEVVLVIHDWGSALGFHWAKRNPERVKGIACMEFIR
PIPTWDEWPEFARETFQAFRTADVGRELIIDQNAFIEGVLPKCVVRPLTEVEMDHYREPFLKPVD
REPLWRFPNEIPIAGEPANIVALVEAYMNWLHQSPVPKLLFWGTPGVLIPPAEAARLAESLPNCK

TVDIGPGLHYLQEDNPDLIGSEIARWLPGLASGLG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>1D2SA
PPAVHLSNGPGQEPIAVMTFDLTKITKTSSSFEVRTWDPEGVIFYGDTNPKDDWFMLGLRDGRPE
IQLHNHWAQLTVGAGPRLDDGRWHQVEVKMEGDSVLLEVDGEEVLRLRQVSGHPIMRIALGGLLF
PASNLRLPLVPALDGCLRRDSWLDKQAEISASAPTSLRSC
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>1DEOA
TTVYLAGDSTMAKNGGGSGTNGWGEYLASYLSATVVNDAVAGRSARSYTREGRFENIADVVTAGD
YVIVEFGHNDGGSLSTDNGRTDCSGTGAEVCYSVYDGVNETILTFPAYLENAAKLFTAKGAKVIL
SSQTPNNPWETGTFVNSPTRFVEYAELAAEVAGVEYVDHWSYVDSIYETLGNATVNSYFPIDHTH
TSPAGAEVVAEAFLKAVVCTGTSLKSVLTTTSFEGTCL
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>1DF7A
MVGLIWAQATSGVIGRGGDIPWRLPEDQAHFREITMGHTIVMGRRTWDSLPAKVRPLPGRRNVVL
SRQADFMASGAEVVGSLEEALTSPETWVIGGGQVYALALPYATRCEVTEVDIGLPREAGDALAPV
LDETWRGETGEWRFSRSGLRYRLYSYHRS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>1DOIA
PTVEYLNYEVVDDNGWDMYDDDVFGEASDMDLDDEDYGSLEVNEGEYILEAAEAQGYDWPFSCRA
GACANCAAIVLEGDIDMDMQQILSDEEVEDKNVRLTCIGSPDADEVKIVYNAKHLDYLQNRVI
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>1DQYA
MFSRPGLPVEYLQVPSASMGRDIKVQFQGGGPHAVYLLDGLRAQDDYNGWDINTPAFEEYYQSGL
SVIMPVGGQSSFYTDWYQPSQSNGQNYTYKWETFLTREMPAWLQANKGVSPTGNAAVGLSMSGGS
ALILAAYYPQQFPYAASLSGFLNPSESWWPTLIGLAMNDSGGYNANSMWGPSSDPAWKRNDPMVQ
IPRLVANNTRIWVYCGNGTPSDLGGDNIPAKFLEGLTLRTNQTFRDTYAADGGRNGVFNFPPNGT
HSWPYWNEQLVAMKADIQHVLNG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000
>1DT1A
DGAKIYAQCAGCHQQNGQGIPGAFPPLAGHVAEILAKEGGREYLILVLLYGLQGQIEVKGMKYNG
VMSSFAQLKDEEIAAVLNHIATAWGDAKKVKGFKPFTAEEVKKLRAKKLTPQQVLAERKKLGLK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
>1E1DA
MFCFQCQETAKNTGCTVKGMCGKPEETANLQDLLIFVLRGIAIYGEKLKELGQPDRSNDDFVLQG
LFATITNANWDDARFEAMISEGLARRDKLRNAFLAVYKAKNGKDFSEPLPEAATWTGDSTAFAEK
AKSVGILATENEDVRSLRELLIIGLKGVAAYAEHAAVLGFRKTEIDEFMLEALASTTKDLSVDEM
VALVMKGRRMAVTTMALLDEANTTTYGNPEITQVNIGVGKNPGILISGHDLKDMAELLKQTEGTG
VDVYTHGEMLPANYYPAFKKYPHFVGNYGGSWWQQNPEFESFNGPILLTTNCLVPLKKENTYLDR
LYTTGVVGYEGAKHIADRPAGGAKDFSALIAQAKKCPPPVEIETGSIVGGFAHHQVLALADKVVE
AVKSGAIKRFVVMAGCDGRQKSRSYYTEVAENLPKDTVILTAGCAKYRYNKLNLGDIGGIPRVLD
AGQCNDSYSLAVIALKLKEVFGLDDINDLPVSYDIAWYEQKAVAVLLALLFLGVKGIRLGPTLPA
FLSPNVAKVLVENFNIKPIGTVQDDIAAMMAGK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>1EB3A
MHTAEFLETEPTEISSVLAGGYNHPLLRQWQSERQLTKNMLIFPLFISDNPDDFTEIDSLPNINR
IGVNRLKDYLKPLVAKGLRSVILFGVPLIPGTKDPVGTAADDPAGPVIQGIKFIREYFPELYIIC
DVCLCEYTSHGHCGVLYDDGTINRERSVSRLAAVAVNYAKAGAHCVAPSDMIDGRIRDIKRGLIN
ANLAHKTFVLSYAAKFSGNLYGPFRDAACSAPSNGDRKCYQLPPAGRGLARRALERDMSEGADGI
IVKPSTFYLDIMRDASEICKDLPICAYHVSGEYAMLHAAAEKGVVDLKTIAFESHQGFLRAGARL
IITYLAPEFLDWLDE
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>1EGQA
AAQTNAPWGLARISSTSPGTSTYYYDESAGQGSCVYVIDTGIEASHPEFEGRAQMVKTYYYSSRD
GNGHGTHCAGTVGSRTYGVAKKTQLFGVKVLDDNGSGQYSTIIAGMDFVASDKNNRNCPKGVVAS
LSLGGGYSSSVNSAAARLQSSGVMVAVAAGNNNADARNYSPASEPSVCTVGASDRYDRRSSFSNY
GSVLDIFGPGTSILSTWIGGSTRSISGTSMATPHVAGLAAYLMTLGKTTAASACRYIADTANKGD
LSNIPFGTVNLLAYNNYQA

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>1EJ0A
GLRSRAWFKLDEIQQSDKLFKPGMTVVDLGAAPGGWSQYVVTQIGGKGRIIACDLLPMDPIVGVD
FLQGDFRDELVMKALLERVGDSKVQVVMSDMAPNMSGTPAVDIPRAMYLVELALEMCRDVLAPGG
SFVVKVFQGEGFDEYLREIRSLFTKVKVRKPDSSRARSREVYIVATGRKP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>1EOEA
ERVVINVSGLRFETQLKTLNQFPDTLLGNPQKRNRYYDPLRNEYFFDRNRPSFDAILYFYQSGGR
LRRPRNVPLDVFSEEIKFYELGENAFERYREDEGF
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>1ESWA
MELPRAFGLLLHPTSLPGPYGVGVLGREARDFLRFLKEAGGRYWQVLPLGPTGYGDSPYQSFSAF
AGNPYLIDLRPLAERGYVRLEDPGFPQGRVDYGLLYAWKWPALKEAFRGFKEKASPEEREAFAAF
REREAWWLEDYALFMALKGAHGGLPWNRWPLPLRKREEKALREAKSALAEEVAFHAFTQWLFFRQ
WGALKAEAEALGIRIIGDMPIFVAEDSAEVWAHPEWFHLDEEGRPTVVAGVPPDYFSETGQRWGN
PLYRWDVLEREGFSFWIRRLEKALELFHLVRIDHFRGFEAYWEIPASCPTAVEGRWVKAPGEKLF
QKIQEVFGEVPVLAEDLGVITPEVEALRDRFGLPGMKVLQFAFDDGMENPFLPHNYPAHGRVVVY
TGTHDNDTTLGWYRTATPHEKAFMARYLADWGITFREEEEVPWALMHLGMKSVARLAVYPVQDVL
ALGSEARMNYPGRPSGNWAWRLLPGELSPEHGARLRAMAEATERL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>1EWCA
DLHDKSELTDLALANAYGQYNHPFIKENIKSDEISGEKDLIFRNQGDSGNDLRVKFATADLAQKF
KNKNVDIYGASFYYKCEKISENISECLYGGTTLNSEKLAQERVIGANVWVDGIQKETELIRTNKK
NVTLQELDIKIRKILSDKYKIYYKDSEISKGLIEFDMKTPRDYSFDIYDLGGENDYEIDKIYEDN
KTLKSDDISHIDVNLYTKK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>1F2FA

MAEEWYFGKITRRESERLLLNPENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLD
SGGFYIWSRTQFSSLQQLVAYYSKHADGLCHRLTNVCPT
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>1FEHA
MKTIIINGVQFNTDEDTTILKFARDNNIDISALCFLNNCNNDINKCEICTVEVEGTGLVTACDTL
IEDGMIINTNSDAVNEKIKSRISQLLDIHEFKCGPCNRRENCEFLKLVIKYKARASKPFLPKDKT
EYVDERSKSLTVDRTKCLLCGRCVNACGKNTETYAMKFLNKNGKTIIGAEDEKCFDDTNCLLCGQ
CIIACPVAALSEKSHMDRVKNALNAPEKHVIVAMAPSVRASIGELFNMGFGVDVTGKIYTALRQL
GFDKIFDINFGADMTIMEEATELVQRIENNGPFPMFTSCCPGWVRQAENYYPELLNNLSSAKSPQ
QIFGTASKTYYPSISGLDPKNVFTVTVMPCTSKKFEADRPQMEKDGLRDIDAVITTRELAKMIKD
AKIPFAKLEDSEADPAMGEYSGAGAIFGATGGVMEAALRSAKDFAENAELEDIEYKQVRGLNGIK
EAEVEINNNKYNVAVINGASNLFKFMKSGMINEKQYHFIEVMACHGGCVNGGGQPHVNPKDLEKV
DIKKVRASVLYNQDEHLSKRKSHENTALVKMYQNYFGKPGEGRAHEILHFKYKK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
>1FFRA
AAPGKPTIAWGNTKFAIVEVDQAATAYNNLVKVKNAADVSVSWNLWNGDTGTTAKVLLNGKEAWS
GPSTGSSGTANFKVNKGGRYQMQVALCNADGCTASDATEIVVADTDGSHLAPLKEPLLEKNKPYK
QNSGKVVGSYFVEWGVYGRNFTVDKIPAQNLTHLLYGFIPICGGNGINDSLKEIEGSFQALQRSC
QGREDFKVSIHDPFAALQKAQKGVTAWDDPYKGNFGQLMALKQAHPDLKILPSIGGWTLSDPFFF
MGDKVKRDRFVGSVKEFLQTWKFFDGVDIDWEFPGGKGANPNLGSPQDGETYVLLMKELRAMLDQ
LSVETGRKYELTSAISAGKDKIDKVAYNVAQNSMDHIFLMSFDFYGAFDLKNLGHQTALNAPAWK
PDTAYTTVNGVNALLAQGVKPGKIVVGTAMYGRGWTGVNGYQNNIPFTGTATGPVKGTWENGIVD
YRQIAGQFMSGEWQYTYDATAEAPYVFKPSTGDLITFDDARSVQAKGKYVLDKQLGGLFSWEIDA
DNGDILNSMNASLGNSAGVQ
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>1FMBA
VTYNLEKRPTTIVLINDTPLNVLLDTGADTSVLTTAHYNRLKYRGRKYQGTGIGGVGGNVETFST

PVTIKKKGRHIKTRMLVADIPVTILGRDILQDLGAKLVL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>1FSFA
MRLIPLTTAEQVGKWAARHIVNRINAFKPTADRPFVLGLPTGGTPMTTYKALVEMHKAGQVSFKH
VVTFNMDEYVGLPKEHPESYYSFMHRNFFDHVDIPAENINLLNGNAPDIDAECRQYEEKIRSYGK
IHLFMGGVGNDGHIAFNEPASSLASRTRIKTLTHDTRVANSRFFDNDVNQVPKYALTVGVGTLLD
AEEVMILVLGSQKALALQAAVEGCVNHMWTISCLQLHPKAIMVCDEPSTMELKVKTLRYFNELEA
ENIKGL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000
>1G94A
TPTTFVHLFEWNWQDVAQECEQYLGPKGYAAVQVSPPNEHITGSQWWTRYQPVSYELQSRGGNRA
QFIDMVNRCSAAGVDIYVDTLINHMAAGSGTGTAGNSFGNKSFPIYSPQDFHESCTINNSDYGND
RYRVQNCELVGLADLDTASNYVQNTIAAYINDLQAIGVKGFRFDASKHVAASDIQSLMAKVNGSP
VVFQEVIDQGGEAVGASEYLSTGLVTEFKYSTELGNTFRNGSLAWLSNFGEGWGFMPSSSAVVFV
DNHDNQRGHGGAGNVITFEDGRLYDLANVFMLAYPYGYPKVMSSYDFHGDTDAGGPNVPVHNNGN
LECFASNWKCEHRWSYIAGGVDFRNNTADNWAVTNWWDNTNNQISFGRGSSGHMAINKEDSTLTA
TVQTDMASGQYCNVLKGELSADAKSCSGEVITVNSDGTINLNIGAWDAMAIHKNAKLN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>1G9GA
ASSPANKVYQDRFESMYSKIKDPANGYFSEQGIPYHSIETLMVEAPDYGHVTTSEAMSYYMWLEA
MHGRFSGDFTGFDKSWSVTEQYLIPTEKDQPNTSMSRYDANKPATYAPEFQDPSKYPSPLDTSQP
VGRDPINSQLTSAYGTSMLYGMHWILDVDNWYGFGARADGTSKPSYINTFQRGEQESTWETIPQP
CWDEHKFGGQYGFLDLFTKDTGTPAKQFKYTNAPDADARAVQATYWADQWAKEQGKSVSTSVGKA
TKMGDYLRYSFFDKYFRKIGQPSQAGTGYDAAHYLLSWYYAWGGGIDSTWSWIIGSSHNHFGYQN
PFAAWVLSTDANFKPKSSNGASDWAKSLDRQLEFYQWLQSAEGAIAGGATNSWNGRYEAVPSGTS
TFYGMGYVENPVYADPGSNTWFGMQVWSMQRVAELYYKTGDARAKKLLDKWAKWINGEIKFNADG
TFQIPSTIDWEGQPDTWNPTQGYTGNANLHVKVVNYGTDLGCASSLANTLTYYAAKSGDETSRQN
AQKLLDAMWNNYSDSKGISTVEQRGDYHRFLDQEVFVPAGWTGKMPNGDVIKSGVKFIDIRSKYK
QDPEWQTMVAALQAGQVPTQRLHRFWAQSEFAVANGVYAILFPD
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>1GUIA
SINNGTFDEPIVNDQANNPDEWFIWQAGDYGISGARVSDYGVRDGYAYITIADPGTDTWHIQFNQ
WIGLYRGKTYTISFKAKADTPRPINVKILQNHDPWTNYFAQTVNLTADWQTFTFTYTHPDDADEV
VQISFELGEGTATTIYFDDVTVSPQ
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>1GZCA
VETISFSFSEFEPGNDNLTLQGAALITQSGVLQLTKINQNGMPAWDSTGRTLYTKPVHMWDSTTG
TVASFETRFSFSIEQPYTRPLPADGLVFFMGPTKSKPAQGYGYLGVFNNSKQDNSYQTLAVEFDT
FSNPWDPPQVPHIGIDVNSIRSIKTQPFQLDNGQVANVVIKYDAPSKILHVVLVYPSSGAIYTIA
EIVDVKQVLPDWVDVGLSGATGAQRDAAETHDVYSWSFQASLPE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>1HG8A
DPCSVTEYSGLATAVSSCKNIVLNGFQVPTGKQLDLSSLQNDSTVTFKGTTTFATTADNDFNPIV
ISGSNITITGASGHVIDGNGQAYWDGKGSNSNSNQKPDHFIVVQKTTGNSKITNLNIQNWPVHCF
DITGSSQLTISGLILDNRAGDKPNAKSGSLPAAHNTDGFDISSSDHVTLDNNHVYNQDDCVAVTS
GTNIVVSNMYCSGGHGLSIGSVGGKSDNVVDGVQFLSSQVVNSQNGCRIKSNSGATGTINNVTYQ
NIALTNISTYGVDVQQDYLNGGPTGKPTNGVKISNIKFIKVTGTVASSAQDWFILCGDGSCSGFT
FSGNAITGGGKTSSCNYPTNTCPS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>1HNAA
PMTLGYWNIRGLAHSIRLLLEYTDSSYEEKKYTMGDAPDYDRSQWLNEKFKLGLDFPNLPYLIDG
THKITQSNAILRYIARKHNLCGESEKEQIREDILENQFMDSRMQLAKLCYDPDFEKLKPEYLQAL
PEMLKLYSQFLGKQPWFLGDKITFVDFIAYDVLERNQVFEPSCLDAFPNLKDFISRFEGLEKISA
YMKSSRFLPRPVFTKMAVFGNK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000

>1IDKA
VGVSGSAEGFAKGVTGGGSATPVYPDTIDELVSYLGDDEARVIVLTKTFDFTDSEGTTTGTGCAP
WGTASACQVAIDQDDWCENYEPDAPSVSVEYYNAGTLGITVTSNKSLIGEGSSGAIKGKGLRIVS
GAENIIIQNIAVTDINPKYVWGGDAITLDDCDLVWIDHVTTARIGRQHYVLGTSADNRVSLTNNY
IDGVSDYSATCDGYHYWAIYLDGDADLVTMKGNYIYHTSGRSPKVQDNTLLHAVNNYWYDISGHA
FEIGEGGYVLAEGNVFQNVDTVLETYEGEAFTVPSSTAGEVCSTYLGRDCVINGFGSSGTFSEDS
TSFLSDFEGKNIASASAYTSVASRVVANAGQGNL
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>1ILKA
NSCTHFPGNLPNMLRDLRDAFSRVKTFFQMKDQLDNLLLKESLLEDFKGYLGCQALSEMIQFYLE
EVMPQAENQDPDIKAHVNSLGENLKTLRLRLRRCHRFLPCENKSKAVEQVKNAFNKLQEKGIYKA
MSEFDIFINYIEAYMTMKIRN
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>1J09A
MVVTRIAPSPTGDPHVGTAYIALFNYAWARRNGGRFIVRIEDTDRARYVPGAEERILAALKWLGL
SYDEGPDVGGPHGPYRQSERLPLYQKYAEELLKRGWAYRAFETPEELEQIRKEKGGYDGRARNIP
PEEAEERARRGEPHVIRLKVPRPGTTEVKDELRGVVVYDNQEIPDVVLLKSDGYPTYHLANVVDD
HLMGVTDVIRAEEWLVSTPIHVLLYRAFGWEAPRFYHMPLLRNPDKTKISKRKSHTSLDWYKAEG
FLPEALRNYLCLMGFSMPDGREIFTLEEFIQAFTWERVSLGGPVFDLEKLRWMNGKYIREVLSLE
EVAERVKPFLREAGLSWESEAYLRRAVELMRPRFDTLKEFPEKARYLFTEDYPVSEKAQRKLEEG
LPLLKELYPRLRAQEEWTEAALEALLRGFAAEKGVKLGQVAQPLRAALTGSLETPGLFEILALLG
KERALRRLERALA
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000
>1JFXA
DTSGVQGIDVSHWQGSINWSSVKSAGMSFAYIKATEGTNYKDDRFSANYTNAYNAGIIRGAYHFA
RPNASSGTAQADYFASNGGGWSRDNRTLPGVLDIEHNPSGAMCYGLSTTQMRTWINDFHARYKAR
TTRDVVIYTTASWWNTCTGSWNGMAAKSPFWVAHWGVSAPTVPSGFPTWTFWQYSATGRVGGVSG
DVDRNKFNGSAARLLALANNTA
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>1JMWA
MNQQGFVISNELRQQQSELTSTWDLMLQTRINLARSAARMMMDASNQQSSAKTDLLQNAKTTLAQ
AAAHYANFKNMTPLPAMAEASANVDEKYQRYQAALAELIQFLDNGNMDAYFAQPTQGMQNALGEA
LGNYARVSENLYRQTF
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>1JTAA
AELVSDKALESAPTVGWASQNGFTTGGAAATSDNIYIVTNISEFTSALSAGAEAKIIQIKGTIDI
SGGTPYTDFADQKARSQINIPANTTVIGLGTDAKFINGSLIIDGTDGTNNVIIRNVYIQTPIDVE
PHYEKGDGWNAEWDAMNITNGAHHVWIDHVTISDGNFTDDMYTTKDGETYVQHDGALDIKRGSDY
VTISNSLIDQHDKTMLIGHNDTNSAQDKGKLHVTLFNNVFNRVTERAPRVRYGSIHSFNNVFKGD
AKDPVYRYQYSFGIGTSGSVLSEGNSFTIANLSASKACKVVKKFNGSIFSDNGSVLNGSAVDLSG
CGFSAYTSKIPYIYDVQPMTTELAQSITDNAGSGKL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>1K0IA
MKTQVAIIGAGPSGLLLGQLLHKAGIDNVILERQTPDYVLGRIRAGVLEQGMVDLLREAGVDRRM
ARDGLVHEGVEIAFAGQRRRIDLKRLSGGKTVTVYGQTEVTRDLMEAREACGATTVYQAAEVRLH
DLQGERPYVTFERDGERLRLDCDYIAGCDGFHGISRQSIPAERLKVFERVYPFGWLGLLADTPPV
SHELIYANHPRGFALCSQRSATRSQYYVQVPLSEKVEDWSDERFWTELKARLPSEVAEKLVTGPS
LEKSIAPLRSFVVEPMQHGRLFLAGDAAHIVPPTGAKGLNLAASDVSTLYRLLLKAYREGRGELL
ERYSAICLRRIWKAERFSWWMTSVLHRFPDTDAFSQRIQQTELEYYLGSEAGLATIAENYVGLPY
EEIE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>1KO3A
EYPTVSEIPVGEVRLYQIADGVWSHIATQSFDGAVYPSNGLIVRDGDELLLIDTAWGAKNTAALL
AEIEKQIGLPVTRAVSTHFHDDRVGGVDVLRAAGVATYASPSTRRLAEVEGNEIPTHSLEGLSSS
GDAVRFGPVELFYPGAAHSTDNLVVYVPSASVLYGGCAIYELSRTSAGNVADADLAEWPTSIERI
QQHYPEAQFVIPGHGLPGGLDLLKHTTNVVKAHTN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>1KOEA
QPVLHLVALNTPLSGGMRGIRGADFQCFQQARAVGLSGTFRAFLSSRLQDLYSIVRRADRGSVPI
VNLKDEVLSPSWDSLFSGSQGQLQPGARIFSFDGRDVLRHPAWPQKSVWHGSDPSGRRLMESYCE
TWRTETTGATGQASSLLSGRLLEQKAASCHNSYIVLCIENSF
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>1KSDA
MAYDYKQVLRDSLLFYEAQRSGRLPADQKVTWRKDSALNDQGDQGQDLTGGYFDAGDFVKFGFPM
AYTATVLAWGLIDFEAGYSSAGALDDGRKAVKWATDYFIKAHTSQNEFYGQVGQGDADHAFWGRP
EDMTMARPAYKIDTSRPGSDLAGETAAALAAASIVFRNVDGTYSNNLLTHARQLFDFANNYRGKY
SDSITDARNFYASADYRDELVWAAAWLYRATNDNTYLNTAESLYDEFGLQNWGGGLNWDSKVSGV
QVLLAKLTNKQAYKDTVQSYVNYLINNQQKTPKGLLYIDMWGTLRHAANAAFIMLEAAELGLSAS
SYRQFAQTQIDYALGDGGRSFVCGFGSNPPTRPHHRSSSCPPAPATCDWNTFNSPDPNYHVLSGA
LVGGPDQNDNYVDDRSDYVHNEVATDYNAGFQSALAALVALGY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>1KUHA
TVTVTYDPSNAPSFQQEIANAAQIWNSSVRNVQLRAGGNADFSYYEGNDSRGSYAQTDGHGRGYI
FLDYQQNQQYDSTRVTAHETGHVLGLPDHYQGPCSELMSGGGPGPSCTNPYPNAQERSRVNALWA
NG
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00
>1L2PA
TDQLKKAKAEAQVIIEQANKRRSQILDEAKAEAEQERTKIVAQAQAEIEAERKRAREELRK
0000000000000000000000000000000000000000000000000000000000000000
>1L7LA
AWKGEVLANNEAGQVTSIIYNPGDVITIVAAGWASYGPTQKWGPQGDREHPDQGLICHDAFCGAL
VMKIGNSGTIPVNTGLFRWVAPNNVQGAITLIYNDVPGTYGNNSGSFSVNIGKDQS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>1LAMA
TKGLVLGIYSKEKEEDEPQFTSAGENFNKLVSGKLREILNISGPPLKAGKTRTFYGLHEDFPSVV
VVGLGKKTAGIDEQENWHEGKENIRAAVAAGCRQIQDLEIPSVEVDPCGDAQAAAEGAVLGLYEY
DDLKQKRKVVVSAKLHGSEDQEAWQRGVLFASGQNLARRLMETPANEMTPTKFAEIVEENLKSAS
IKTDVFIRPKSWIEEQEMGSFLSVAKGSEEPPVFLEIHYKGSPNASEPPLVFVGKGITFDSGGIS

IKAAANMDLMRADMGGAATICSAIVSAAKLDLPINIVGLAPLCENMPSGKANKPGDVVRARNGKT
IQVDNTDAEGRLILADALCYAHTFNPKVIINAATLTGAMDIALGSGATGVFTNSSWLWNKLFEAS
IETGDRVWRMPLFEHYTRQVIDCQLADVNNIGKYRSAGACTAAAFLKEFVTHPKWAHLDIAGVMT
NKDEVPYLRKGMAGRPTRTLIEFLFRFSQ
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>1LIBA
CDAFVGTWKLVSSENFDDYMKEVGVGFATRKVAGMAKPNMIISVNGDLVTIRSESTFKNTEISFK
LGVEFDEITADDRKVKSIITLDGGALVQVQKWDGKSTTIKRKRDGDKLVVECVMKGVTSTRVYER
A
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0
>1LJ5A
VHHPPSYVAHLASDFGVRVFQQVAQASKDRNVVFSPYGVASVLAMLQLTTGGETQQQIQAAMGFK
IDDKGMAPALRHLYKELMGPWNKDEISTTDAIFVQRDLKLVQGFMPHFFRLFRSTVKQVDFSEVE
RARFIINDWVKTHTKGMISNLLGKGAVDQLTRLVLVNALYFNGQWKTPFPDSSTHRRLFHKSDGS
TVSVPMMAQTNKFNYTEFTTPDGHYYDILELPYHGDTLSMFIAAPYEKEVPLSALTNILSAQLIS
HWKGNMTRLPRLLVLPKFSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVAQALQKVK
IEVNESGTVASSSTAVIVSARMAPEEIIMDRPFLFVVRHNPTGTVLFMGQVMEP
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>1M2HA
MDEKLLKTIAESKYLVALTGAGVAAESGIPTFRGKDGLWNRYRPEELANPQAFAKDPEKVWKWYA
WRMEKVFNAQPNKAHQAFAELERLGVLKCLITQNVDDLHERAGSRNVIHLHGSLRVVRCTSCNNS
FEVESAPKIPPLPKCDKCGSLLRPGVVWFGEMLPPDVLDRAMREVERADVIIVAGTSAVVQPAAS
LPLIVKQRGGAIIEINPDETPLTPIADYSLRGKAGEVMDELVRHVRKALSLKLN
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>1MIXA
MKFFYSDQNVDSRDPVQLNLLYVQARDDILNGSHPVSFDKACEFAGYQCQIQFGPHNEQKHKPGF
LELKDFLPKEYIKQKGERKIFMAHKNCGNMSEIEAKVRYVKLARSLKTYGVSFFLVKEKMKGKNK

LVPRLLGITKECVMRVDEKTKEVIQEWSLTNIKRWAASPKSFTLDFGDYQDGYYSVQTTEGEQIA
QLIAGYIDIIL
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000000
>1MK0A
MKSGIYQIKNTLNNKVYVGSAKDFEKRWKRHFKDLEKGCHSSIKLQRSFNKHGNVFECSILEEIP
YEKDLIIERANFWIKELNSKINGYNIADATFG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>1MXGA
AKYLELEEGGVIMQAFYWDVPGGGIWWDHIRSKIPEWYEAGISAIWLPPPSKGMSGGYSMGYDPY
DYFDLGEYYQKGTVETRFGSKEELVRLIQTAHAYGIKVIADVVINHRAGGDLEWNPFVGDYTWTD
FSKVASGKYTANYLDFHPNELHCCDEGTFGGFPDICHHKEWDQYWLWKSNESYAAYLRSIGFDGW
RFDYVKGYGAWVVRDWLNWWGGWAVGEYWDTNVDALLSWAYESGAKVFDFPLYYKMDEAFDNNNI
PALVYALQNGQTVVSRDPFKAVTFVANHDTDIIWNKYPAYAFILTYEGQPVIFYRDFEEWLNKDK
LINLIWIHDHLAGGSTTIVYYDNDELIFVRNGDSRRPGLITYINLSPNWVGRWVYVPKFAGACIH
EYTGNLGGWVDKRVDSSGWVYLEAPPHDPANGYYGYSVWSYCGVG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>1NE9A
PVLNLNDPQAVERYEEFMRQSPYGQVTQDLGWAKVKNNWEPVDVYLEDDQGAIIAAMSMLLGDTP
TDKKFAYASKGPVMDVTDVDLLDRLVDEAVKALDGRAYVLRFDPEVAYSDEFNTTLQDHGYVTRN
RNVADAGMHATIQPRLNMVLDLTKFPDAKTTLDLYPSKTKSKIKRPFRDGVEVHSGNSATELDEF
FKTYTTMAERHGITHRPIEYFQRMQAAFDADTMRIFVAEREGKLLSTGIALKYGRKIWYMYAGSM
DGNTYYAPYAVQSEMIQWALDTNTDLYDLGGIESESTDDSLYVFKHVFVKDAPREYIGEIDKVLD
PEVYAELVKD
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000
>1OA4A
NQQICDRYGTTTIQDRYVVQNNRWGTSATQCINVTGNGFEITQADGSVPTNGAPKSYPSVYDGCH
YGNCAPRTTLPMRISSIGSAPSSVSYRYTGNGVYNAAYDIWLDPTPRTNGVNRTEIMIWFNRVGP
VQPIGSPVGTAHVGGRSWEVWTGSNGSNDVISFLAPSAISSWSFDVKDFVDQAVSHGLATPDWYL
TSIQAGFEPWEGGTGLAVNSFSSAVNA

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>1OHBA
MMNPLIIKLGGVLLDSEEALERLFSALVNYRESHQRPLVIVHGGGCVVDELMKGLNLPVKKKNGL
RVTPADQIDIITGALAGTANKTLLAWAKKHQIAAVGLFLGDGDSVKVTQLDEELGHVGLAQPGSP
KLINSLLENGYLPVVSSIGVTDEGQLMNVNADQAATALAATLGADLILLSDVSGILDGKGQRIAE
MTAAKAEQLIEQGIITDGMIVKVNAALDAARTLGRPVDIASWRHAEQLPALFNGMPMGTRILA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
>1OJQA
AETKNFTDLVEATKWGNSLIKSAKYSSKDKMAIYNYTKNSSPINTPLRSANGDVNKLSENIQEQV
RQLDSTISKSVTPDSVYVYRLLNLDYLSSITGFTREDLHMLQQTNNGQYNEALVSKLNNLMNSRI
YRENGYSSTQLVSGAALAGRPIELKLELPKGTKAAYIDSKELTAYPGQQEVLLPRGTEYAVGSVK
LSDNKRKIIITAVVFKK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>1OSFA
DQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSG
KELHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGF
YSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRI
KEIVKKHSQFIGYPITLFVE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>1QB7A
PFKEVSPNSFLLDDSHALSQLLKKSYRWYSPVFSPRNVPRFADVSSITESPETLKAIRDFLVQRY
RAMSPAPTHILGFDARGFLFGPMIAVELEIPFVLMRKADKNAGLLIRSEPYEKEYKEAAPEVMTI
RYGSIGKGSRVVLIDDVLATGGTALSGLQLVEASDAVVVEMVSILSIPFLKAAEKIHSTANSRYK
DIKFISLLSDDALTEENCGDSKNYTGPRVLSCGDVLAEHPH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>1QBAA
DQQLVDQLSQLKLNVKMLDNRAGENGVDCAALGADWASCNRVLFTLSNDGQAIDGKDWVIYFHSP
RQTLRVDNDQFKIAHLTGDLYKLEPTAKFSGFPAGKAVEIPVVAEYWQLFRNDFLPRWYATSGDA
KPKMLANTDTENLDQFVAPFTGDQWKRTKDDKNILMTPASRFVSNADLQTLPAGALRGKIVPTPM

QVKVHAQDADLRKGVALDLSTLVKPAADVVSQRFALLGVPVQTNGYPIKTDIQPGKFKGAMAVSG
AYELKIGKKEAQVIGFDQAGVFYGLQSILSLVPSDGSGKIATLDASDAPRFPYRGIFLDVARNFH
KKDAVLRLLDQMAAYKLNKFHFHLSDDEGWRIEIPGLPELTEVGGQRCHDLSETTCLLPQYGQGP
DVYGGFFSRQDYIDIIKYAQARQIEVIPEIDMPAHARAAVVSMEARYKKLHAAGKEQEANEFRLV
DPTDTSNTTSVQFFNRQSYLNPCLDSSQRFVDKVIGEIAQMHKEAGQPIKTWHFGGDEAKNIRLG
AGYTDKAKPEPGKGIIDQGNEDKPWAKSQVCQTMIKEGKVADMEHLPSYFGQEVSKLVKAHGIDR
MQAWQDGLKDAESSKAFATSRVGVNFWDTLYWGGFDSVNDWANKGYEVVVSNPDYVYMDFPYEVN
PDERGYYWGTRFSDERKVFSFAPDNMPQNAETSVDRDGNHFNAKSDKPWPGAYGLSAQLWSETQR
TDPQMEYMIFPRALSVAERSWHRAGWEQDYRAGREYKGGETHFVDTQALEKDWLRFANILGQREL
AKLDKGGVAYRLPVPGARVAGGKLEANIALPGLGIEYSTDGGKQWQRYDAKAKPAVSGEVQVRSV
SPDGKRYSRAEKV
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>1QR0A
MKIYGIYMDRPLSQEENERFMTFISPEKREKCRRFYHKEDAHRTLLGDVLVRSVISRQYQLDKSD
IRFSTQEYGKPCIPDLPDAHFNISHSGRWVIGAFDSQPIGIDIEKTKPISLEIAKRFFSKTEYSD
LLAKDKDEQTDYFYHLWSMKESFIKQEGKGLSLPLDSFSVRLHQDGQVSIELPDSHSPCYIKTYE
VDPGYKMAVCAAHPDFPEDITMVSYEELLRAAA
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>1R9LA
ADLPGKGITVNPVQSTITEETFQTLLVSRALEKLGYTVNKPSEVDYNVGYTSLASGDATFTAVNW
TPLHDNMYEAAGGDKKFYREGVFVNGAAQGYLIDKKTADQYKITNIAQLKDPKIAKLFDTNGDGK
ADLTGCNPGWGCEGAINHQLAAYELTNTVTHNQGNYAAMMADTISRYKEGKPVFYYTWTPYWVSN
ELKPGKDVVWLQVPFSALPGDKNADTKLPNGANYGFPVSTMHIVANKAWAEKNPAAAKLFAIMQL
PVADINAQNAIMHDGKASEGDIQGHVDGWIKAHQQQFDGWVNEALAAQK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000
>1RHCA
MKTQIGYFASLEQYRPMDALEQAIRAEKVGFDSVWVDDHFHPWYHDNAQSAQAWAWMGAALQATK
KVFISTCITCPIMRYNPAIVAQTFATLRQMYPGRVGVAVGAGEAMNEVPVTGEWPSVPVRQDMTV
EAVKVMRMLWESDKPVTFKGDYFTLDKAFLYTKPDDEVPLYFSGMGPKGAKLAGMYGDHLMTVAA
APSTLKNVTIPKFEEGAREAGKDPSKMEHAMLIWYSVDPDYDKAVEALRFWAGCLVPSMFKYKVY
DPKEVQLHANLVHCDTIKENYMCATDAEEMIKEIERFKEAGINHFCLGNSSPDVNFGIDIFKEVI
PAVRD
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000
>1RXEA
MDKKTIYFISTGNSARSQMAEGWGKEILGEGWNVYSAGIETHGVNPKAIEAMKEVDIDISNHTSD
LIDNDILKQSDLVVTLSSDADNNCPILPPNVKKEHWGFDDPAGKEWSEFQRVRDEIKLAIEKFKL
R
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0
>1S3DA
NITIYHNPACGTSRNTLEMIRNSGTEPTIILYLENPPSRDELVKLIADMGISVRALLAKNVEPYE
QLGLAEDKFTDDQLIDFMLQHPILINRPIVVTPLGTRLCRPSEVVLDILQDAQKGAFTKEDGEKV
VDEAGKRL
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000
>1SZNA
IVMPDGVTGKVPSLGWNSWNAYHCDIDESKFLSAAELIVSSGLLDAGYNYVNIDDCWSMKDGRVD
GHIAPNATRFPDGIDGLAKKVHALGLKLGIYSTAGTATCAGYPASLGYEDVDAADFADWGVDYLK
YDNCNVPSDWQDEYVACNPDFVKTGPNGTCTTALDPTLAPPGYDWSTSKSAERFGAMRNALAKQS
HEIVLSMCIWGQADVFSWGNSTGISWRMSDDISPNWGSVTRILNLNSFKLNSVDFWGHNDADMLE
VGNGNLTAAETRTHFALWAAMKSPLLIGTDLAQLSQNNINLLKNKHLLAFNQDSVYGQPATPYKW
GINPDWTFNVTYPAEFWAGPSSKGHLVLMVNTLDITATKEAKWNEIPGLSAGHYEVRDVWSDKDL
GCLSSYKAAVAAHDTAVILVGKKCQRW
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>1TYJA

GSVLTAIDNDKVAVGDKVTLTINVDKITNFSGYQFNIKYNTTYLQPWDTIADEAYTDSTMPDYGT
LLQGRFNATDMSKHNLSQGVLNFGRLYMNLSAYRASGKPESTGAVAKVTFKVIKEIPAEGIKLAT
FENGSSMNNAVDGTMLFDWDGNMYSSSAYKVVQPGLIYPK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>1UQXA
AQQGVFTLPANTSFGVTAFANAANTQTIQVLVDNVVKATFTGSGTSDKLLGSQVLNSGSGAIKIQ
VSVNGKPSDLVSNQTILANKLNFAMVGSEDGTDNDYNDGIAVLNWPLG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>1USGA
DDIKVAVVGAMSGPIAQWGDMEFNGARQAIKDINAKGGIKGDKLVGVEYDDACDPKQAVAVANKI
VNDGIKYVIGHLCSSSTQPASDIYEDEGILMISPGATNPELTQRGYQHIMRTAGLDSSQGPTAAK
YILETVKPQRIAIIHDKQQYGEGLARSVQDGLKAANANVVFFDGITAGEKDFSALIARLKKENID
FVYYGGYYPEMGQMLRQARSVGLKTQFMGPEGVGNASLSNIAGDAAEGMLVTMPKRYDQDPANQG
IVDALKADKKDPSGPYVWITYAAVQSLATALERTGSDEPLALVKDLKANGANTVIGPLNWDEKGD
LKGFDFGVFQWHADGSSTKAK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>1WKXA
EQCGRQAGGKLCPDNLCCSQWGWCGSTDEYCSPDHNCQSNCKD
0000000000000000000000000000000000000000000
>1X38A
DYVLYKDATKPVEDRVADLLGRMTLAEKIGQMTQIERLVATPDVLRDNFIGSLLSGGGSVPRKGA
TAKEWQDMVDGFQKACMSTRLGIPMIYGIDAVHGQNNVYGATIFPHNVGLGATRDPYLVKRIGEA
TALEVRATGIQYAFAPCIAVCRDPRWGRCYESYSEDRRIVQSMTELIPGLQGDVPKDFTSGMPFV
AGKNKVAACAKHFVGDGGTVDGINENNTIINREGLMNIHMPAYKNAMDKGVSTVMISYSSWNGVK
MHANQDLVTGYLKDTLKFKGFVISDWEGIDRITTPAGSDYSYSVKASILAGLDMIMVPNKYQQFI
SILTGHVNGGVIPMSRIDDAVTRILRVKFTMGLFENPYADPAMAEQLGKQEHRDLAREAARKSLV
LLKNGKTSTDAPLLPLPKKAPKILVAGSHADNLGYQCGGWTIEWQGDTGRTTVGTTILEAVKAAV
DPSTVVVFAENPDAEFVKSGGFSYAIVAVGEHPYTETKGDNLNLTIPEPGLSTVQAVCGGVRCAT
VLISGRPVVVQPLLAASDALVAAWLPGSEGQGVTDALFGDFGFTGRLPRTWFKSVDQLPMNVGDA
HYDPLFRLGYGLTTNAT
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>1X3OA
MTEQEIFEKVKAVIADKLQVEPEKVTLEARFIEDLGADSLDTVELIMGLEDEFGLEISDEEAEKI
RTVKDAVEYIKAKLG
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>1XDWA
MKVLCYGVRDVELPIFEACNKEFGYDIKCVPDYLNTKETAEMAAGFDAVILRGNCFANKQNLDIY
KKLGVKYILTRTAGTDHIDKEYAKELGFPMAFVPRYSPNAIAELAVTQAMMLLRHTAYTTSRTAK
KNFKVDAFMFSKEVRNCTVGVVGLGRIGRVAAQIFHGMGATVIGEDVFEIKGIEDYCTQVSLDEV
LEKSDIITIHAPYIKENGAVVTRDFLKKMKDGAILVNCARGQLVDTEAVIEAVESGKLGGYGCDV
LDGEASVFGKDLEGQKLENPLFEKLVDLYPRVLITPHLGSYTDEAVKNMVEVSYQNLKDLAETGD
CPNKIK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000
>1XJ3A
DAMIVIDGHGIIQLFSTAAERLFGWSELEAIGQNVNILMPEPDRSRHDSYISRYRTTSDPHIIGI
GRIVTGKRRDGTTFPMHLSIGEMQSGGEPYFTGFVRDLTEHQQTQARLQEL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>1ZIPA
MNLVLMGLPGAGKGTQAEKIVAAYGIPHISTGDMFRAAMKEGTPLGLQAKQYMDRGDLVPDEVTI
GIVRERLSKDDCQNGFLLDGFPRTVAQAEALETMLADIGRKLDYVIHIDVRQDVLMERLTGRRIC
RNCGATYHLIFHPPAKPGVCDKCGGELYQRADDNEATVANRLEVNMKQMKPLVDFYEQKGYLRNI
NGEQDMEKVFADIRELLGGLAR
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>1ZK7A
MEPPVQVAVIGSGGAAMAAALKAVEQGAQVTLIERGTIGGTCVNVGCVPSKIMIRAAHIAHLRRE
SPFDGGIAATVPTIDRSKLLAQQQARVDELRHAKYEGILGGNPAITVVHGEARFKDDQSLTVRLN
EGGERVVMFDRCLVATGASPAVPPIPGLKESPYWTSTEALASDTIPERLAVIGSSVVALELAQAF
ARLGSKVTVLARNTLFFREDPAIGEAVTAAFRAEGIEVLEHTQASQVAHMDGEFVLTTTHGELRA
DKLLVATGRTPNTRSLALDAAGVTVNAQGAIVIDQGMRTSNPNIYAAGDCTDQPQFVYVAAAAGT
RAAINMTGGDAALDLTAMPAVVFTDPQVATVGYSEAEAHHDGIETDSRTLTLDNVPRALANFDTR
GFIKLVIEEGSHRLIGVQAVAPEAGELIQTAALAIRNRMTVQELADQLFPYLTMVEGLKLAAQTF

NKDVKQLSCCAG
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000
>1ZL7A
SLWQFGKMINYVMGESGVLQYLSYGCYCGLGGQGQPTDATDRCCFVHDCCYGKVTGCNPKIDSYT
YSKKNGDVVCGGDNPCKKQICECDRVATTCFRDNKDTYDIKYWFYGAKNCQEKSEPC
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>1ZT5A
WKEPCRIELYRVVESLAKAQETSGEEISKFYLPNCNKNGFYHSRQCETSMDGEAGLCWCVYPWNG
KRIPGSPEIRGDPNC
000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>2BWMA
SVVVISQALPVPTRIPGVADLVGFGNGGVYIIRNSLLIQVVKVINNFGYDAGGWRVEKHVRLLAD
TTGDNQSDVVGFGENGVWISTNNGNNTFVDPPKMVLANFAYAAGGWRVEKHIRFMADLRKTGRAD
IVGFGDGGIYISRNNGGGQFAPAQLALNNFGYAQGWRLDRHLRFLADVTGDGLLDVVGFGENQVY
IARNSGNGTFQPAQAVVNNFCIGAGGWTISAHPRVVADLTGDRKADILGFGVAGVYTSLNNGNGT
FGAVNLVLKDFGVNSGWRVEKHVRCVSSLTNKKVGDIIGFGDAGVYVALNNGNGTFGPVKRVIDN
FGYNQGWRVDKHPRFVVDLTGDGCADIVGFGENSVWACMNKGDGTFGPIMKLIDDMTVSKGWTLQ
KTVRYAANLYL
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
00000000000
>2BWXA
SEISRQEFQRRRQALVEQMQPGSAALIFAAPEVTRSADSEYPYRQNSDFWYFTGFNEPEAVLVLI
KSDDTHNHSVLFNRVRDLTAEIWFGRRLGQDAAPEKLGVDRALAFSEINQQLYQLLNGLDVVYHA
QGEYAYADVIVNSALEKLRKGSRQNLTAPATMIDWRPVVHEMRLFKSPEEIAVLRRAGEITAMAH
TRAMEKCRPGMFEYHLEGEIHHEFNRHGARYPSYNTIVGSGENGCILHYTENECEMRDGDLVLID
AGCEYKGYAGDITRTFPVNGKFTQAQREIYDIVLESLETSLRLYRPGTSILEVTGEVVRIMVSGL
VKLGILKGDVDELIAQNAHRPFFMHGLSAWLGLDVHDVGVYGQDRSRILEPGMVLTVEPGLYIAP
DAEVPEQYRGIGIRIEDDIVITETGNENLTASVVKKPEEIEALMVAARKQ
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>2C0HA
AAVRLSVSGTNLNYNGHHIFLSGANQAWVNYARDFGHNQYSKGKSTFESTLSDMQSHGGNSVRVW
LHIEGESTPEFDNNGYVTGIDNTLISDMRAYLHAAQRHNILIFFTLWNGAVKQSTHYRLNGLMVD
TRKLQSYIDHALKPMANALKNEKALGGWDIMNEPEGEIKPGESSSEPCFDTRHLSGSGAGWAGHL
YSAQEIGRFVNWQAAAIKEVDPGAMVTVGSWNMKADTDAMGFHNLYSDHCLVKAGGKQSGTLSFY
QVHTYDWQNHFGNESPFKHSFSNFRLKKPMVIGEFNQEHGAGMSSESMFEWAYTKGYSGAWTWSR
TDVSWNNQLRGMQHLKSRTDHGQVQFGL
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000
>2CCQA
GSASPAVAELCQNTPETFLEASKLLLTYADNILRNPNDEKYRSIRIGNTAFSTRLLPVRGAVECL
FEMGFEEGETHLIFPKKASVEQLQKIRDLIAIER
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>2D58A
KAQQEERLDEINKQFLDDPKYSSDEDLPSKLEGFKEKYMEFDLNGNGDIDIMSLKRMLEKLGVPK
THLELKKLIGEVSSGSGETFSYPDFLRMMLGKRSAILKMILM
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>2D5YA
MFENITTAPADPILGLADLFRADERPGKINLGIGVYKDETGKTPVLTSVKKAEQYLLENETTKNY
LGIDGIPEFGRCTQELLFGKGSALINDKRARTAQTPGGTGALRVAADFLAKNTSVKRVWVSNPSW
PNHKSVFNSAGLEVREYAYYDAENHTLDFDALINSLNEAQAGDVVLFHGCCHNPTGIDPTLEQWQ
TLAQLSVEKGWLPLFDFAYQGFARGLEEDAEGLRAFAAMHKELIVASSYSKNFGLYNERVGACTL
VAADSETVDRAFSQMKAAIRVNYSSPPAHGASVVATILSNDALRAIWEQELTDMRQRIQRMRQLF
VNTLQEKGANRDFSFTIKQNGMFFFGGLTKEQVLRLREEFGVYAVASGRLNVAGMTPDNLAPLCE
AIVAVL
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000
>2D81A

TALPAFNVNPNSVSVSGLASGGYMAAQLGVAYSDVFNVGFGVFAGGPYDCARNQYYTSCMYNGYP
SITTPTANMKSWSGNQIASVANLGQRKIYMWTGSSDTTVGPNVMNQLKAQLGNFDNSANVSYVTT
TGAVHTFPTDFNGAGDNSCSLSTSPYISNCNYDGAGAALKWIYGSLNARNTGTLSGSVLSFAQSG
SYGANGMDTTGYLYVPQSCASGATVCSLHVALHGCLQSYSSIGSRFIQNTGYNKWADTNNMIILY
PQAIPDYTIHAIWNGGVLSNPNGCWDWVGWYGSNADQIGGVQMAAIVGQVKQIVSGFQ
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>2E7UA
MERPISEAYFQEAKRHIPGGVSSPVRAFKAVGGTPPFLVRGEGAYVWDADGNRYLDYVMSWGPLI
LGHAHPKVLARVRETLERGLTFGAPSPLEVALAKKVKRAYPFVDLVRFVNSGTEATMSALRLARG
YTGRPYIVKFRGNYHGHADGLLVEAGSGALTLGVPSSAGVPEEYAKLTLVLEYNDPEGLREVLKR
RGEEIAAIIFEPVVGNAGVLVPTEDFLKALHEAKAYGVLLIADEVMTGFRLAFGGATELLGLKPD
LVTLGKILGGGLPAAAYAGRREIMEKVAPLGPVYQAGTLSGNPLAMAAGLATLELLEENPGYYAY
LEDLGARLEAGLKEVLKEKGLPHTVNRVGSMITVFFTEGPVVTFQDARRTDTELFKRFFHGLLDR
GIYWPPSNFEAAFLSVAHREEDVEKTLEALRKAL
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>2EFFA
MNDSEFHRLADQLWLTIEERLDDWDGDSDIDCEINGGVLTITFENGSKIIINRQEPLHQVWLATK
QGGYHFDLKGDEWICDRSGETFWDLLEQAATQQAGETVSFR
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>2EHGA
MIIGYFDGLCEPKNPGGIATFGFVIYLDNRKIEGYGLAEKPFSINSTNNVAEYSGLICLMETMLR
LGISSPIIKGDSQLVIKQMNGEYKVKAKRIIPLYEKAIELKKKLNATLIWVPREENKEADRLSRV
AYELVRRGKLRDIGCIILT
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>2EVBA
MVVSENVVSAPMPGKVLRVLVRVGDRVRVGQGLLVLEAMKMENEIPSPRDGVVKRILVKEGEAVD
TGQPLIELG
0000000000000000000000000000000000000000000000000000000000000000
000000000
>2EWTA
MSSEYAKQLGAKLRAIRTQQGLSLHGVEEKSQGRWKAVVVGSYERGDRAVTVQRLAELADFYGVP

VQELLP
000000000000000000000000000000000000000000000000000000000000000000000
000000
>2FB9A
MEFMRVLLIAGGVSPEHEVSLLSAEGVLRHIPFPTDLAVIAQDGRWLLGEKALTALEAKAAPEGE
HPFPPPLSWERYDVVFPLLHGRFGEDGTVQGFLELLGKPYVGAGVAASALCMDKDLSKRVLAQAG
VPVVPWVAVRKGEPPVVPFDPPFFVKPANTGSSVGISRVERFQDLEAALALAFRYDEKAVVEKAL
SPVRELEVGVLGNVFGEASPVGEVRYEAPFYDYETKYTPGRAELLIPAPLDPGTQETVQELALKA
YKVLGVRGMARVDFFLAEGELYLNELNTIPGFTPTSMYPRLFEAGGVAYPELLRRLVELALT
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000
>2GBPA
ADTRIGVTIYKYDDNFMSVVRKAIEQDAKAAPDVQLLMNDSQNDQSKQNDQIDVLLAKGVKALAI
NLVDPAAAGTVIEKARGQNVPVVFFNKEPSRKALDSYDKAYYVGTDSKESGIIQGDLIAKHWAAN
QGWDLNKDGQIQFVLLKGEPGHPDAEARTTYVIKELNDKGIKTEQLQLDTAMWDTAQAKDKMDAW
LSGPNANKIEVVIANNDAMAMGAVEALKAHNKSSIPVFGVDALPEALALVKSGALAGTVLNDANN
QAKATFDLAKNLADGKGAADGTNWKIDNKVVRVPYVGVDKDNLAEFSKK
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>2GGOA
MKAFILAAGSGERLEPITHTRPKAFVPILSKPLIEYQIEYLRKCGIRDITVIVSSKNKEYFEKKL
KEISIVTQKDDIKGTGAAILSAKFNDEALIIYGDLFFSNEKEICNIITLKENAIIGVKVSNPKDY
GVLVLDNQNNLSKIIEKPEIPPSNLINAGIYKLNSDIFTYLDKISISERGELELTDAINLMAKDH
RVKVIEYEGYWMDIGKPWNIIDVNKWALDNLVFSQNLGNVEDNVKIKGKVIIEEDAEIKSGTYIE
GPVYIGKGSEIGPNSYLRPYTILVEKNKIGASVEVKESVIMEGSKIPHLSYVGDSVIAEDVNFGA
GTLIANLRFDEKEVKVNVKGKRISSGRRKLGAFIGGHVRTGINVTILPGVKIGAYARIYPGAVVN
RDVGYGEFFKV
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>2GH4A
KSPLTYAEALANTIMNTYTVEELPPANRWHYHQGVFLCGVLRLWEATGEKRYFEYAKAYADLLID
DNGNLLFRRDELDAIQAGLILFPLYEQTKDERYVKAAKRLRSLYGTLNRTSEGGFWHKDGYPYQM
WLNGLYMGGPFALKYANLKQETELFDQVVLQESLMRKHTKDAKTGLFYHAWDEAKKMPWANEETG

CSPEFWARSIGWYVMSLADMIEELPKKHPNRHVWKNTLQDMIKSICRYQDKETGLWYQIVDKGDR
SDNWLESSGSCLYMYAIAKGINKGYLDRAYETTLLKAYQGLIQHKTETSEDGAFLVKDICVGTSA
GFYDYYVSRERSTNDLHGAGAFILAMTELEPLFRSAGK
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>2HZ1A
STLYEKLGGTTAVDLAVDKFYERVLQDDRIKHFFADVDMAKQRAHQKAFLTYAFGGTDKYDGRYM
REAHKELVENHGLNGEHFDAVAEDLLATLKEMGVPEDLIAEVAAVAGAPAHKRDVLNQ
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>2I6MA
MYWVRRKTIGGSGLPYTENEILEWRKEGVKRVLVLPEDWEIEESWGDKDYYLSILKKNGLQPLHI
PIPDGGVPSDSQFLTIMKWLLSEKEGNLVHCVGGIGRTGTILASYLILTEGLEVESAIDEVRLVR
PGAVQTYEQEMFLLRVEGMRKSWLKNIYSNS
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>2I6VA
QEIFQYVRLSQVKRDDKVLGYRVSPGKDPVLFESIGLQDGDMAVALNGLDLTDPNVMNTLFQSMN
EMTEMSLTVERDGQQHDVYIQF
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>2JGPA
RSEYVAPRSVWEARLAQVWEQVLNVPQVGALDDFFALGGHSLRAMRVLSSMHNEYQVDIPLRILF
EKPTIQELAAFIEETAKGNVFSIEPVQKQAYYPVSSAQKRMYILDQFEGVGISYNMPSTMLIEGK
LERTRVEAAFQRLIARHESLRTSFAVVNGEPVQNIHEDVPFALAYSEVTEEEARELVSSLVQPFD
LEVAPLIRVSLLKIGEDRYVLFTDMHHSISDGVSSGILLAEWVQLYQGDVLPELRIQYKDFAVWQ
QEFSQSAAFHKQEAYWLQTFADDIPVLNLPTDFTRPSTQSFAGDQCTIGAGKALTEGLHQLAQAT
GTTLYMVLLAAYNVLLAKYAGQEDIIVGTPITGRSHADLEPIVGMFVNTLAMRNKPQREKTFSEF
LQEVKQNALDAYGHQDYPFEELVEKLAIARDLSRNPLFDTVFTFQNSTEEVMTLPECTLAPFMTD
ETGQHAKFDLTFSATEEREEMTIGVEYSTSLFTRETMERFSRHFLTIAASIVQNPHIRLGEIDML
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>2JHYA

AMVPNVVVTGLTLVCSSAPGPLELDLTGDLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYI
QHTYRKGVKIDKTDYMVGSYGPRAEHYHFLTPVEEAPKGMLARGSYSIKSRFTDDDKTDHLSWEW
NLTIKKDW
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
00000000
>2LAOA
ALPQTVRIGTDTTYAPFSSKDAKGEFIGFDIDLGNEMCKRMQVKCTWVASDFDALIPSLKAKKID
AIISSLSITDKRQQEIAFSDKLYAADSRLIAAKGSPIQPTLESLKGKHVGVLQGSTQEAYANDNW
RTKGVDVVAYANQDLIYSDLTAGRLDAALQDEVAASEGFLKQPAGKEYAFAGPSVKDKKYFGDGT
GVGLRKDDTELKAAFDKALTELRQDGTYDKMAKKYFDFNVYGD
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>2MNRA
EVLITGLRTRAVNVPLAYPVHTAVGTVGTAPLVLIDLATSAGVVGHSYLFAYTPVALKSLKQLLD
DMAAMIVNEPLAPVSLEAMLAKRFCLAGYTGLIRMAAAGIDMAAWDALGKVHETPLVKLLGANAR
PVQAYDSHSLDGVKLATERAVTAAELGFRAVKTKIGYPALDQDLAVVRSIRQAVGDDFGIMVDYN
QSLDVPAAIKRSQALQQEGVTWIEEPTLQHDYEGHQRIQSKLNVPVQMGENWLGPEEMFKALSIG
ACRLAMPDAMKIGGVTGWIRASALAQQFGIPMSSHLFQEISAHLLAATPTAHWLERLDLAGSVIE
PTLTFEGGNAVIPDLPGVGIIWREKEIGKYLV
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>2NW6A
ADNYAATRYPIILVHGLTGTDKYAGVLEYWYGIQEDLQQRGATVYVANLSGFQSDDGPNGRGEQL
LAYVKTVLAATGATKVNLVGHSQGGLTSRYVAAVAPDLVASVTTIGTPHRGSEFADFVQGVLAYD
PTGLSSTVIAAFVNVFGILTSSSNNTNQDALAALKTLTTAQAATYNQNYPSAGLGAPGSCQTGAP
TETVGGNTHLLYSWAGTAIQPTISVFGVTGATDTSTIPLVDPANALDPSTLALFGTGTVMVNRGS
GQNDGVVSKCSALYGQVLSTSYKWNHLDEINQLLGVRGANAEDPVAVIRTHANRLKLAGV
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000
>2P99A
AISIKTPEDIEKMRVAGRLAAEVLEMIEPYVKPGVSTGELDRICNDYIVNEQHAVSACLGYHGYP
KSVCISINEVVCHGIPDDAKLLKDGDIVNIDVTVIKDGFHGDTSKMFIVGKPTIMGERLCRITQE
SLYLALRMVKPGINLREIGAAIQKFVEAEGFSVVREYCGHGIGRGFHEEPQVLHYDSRETNVVLK
PGMTFTIEPMVNAGKKEIRTMKDGWTVKTKDRSLSAQYEHTIVVTDNGCEILTLRKDDTIPAIIS

H
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0
>2PESA
SAVKAARYGKDNVRVYKVHKDEKTGVQTVYEMTVCVLLEGEIETSYTKADNSVIVATDSIKNTIY
ITAKQNPVTPPELFGSILGTHFIEKYNHIHAAHVNIVCHRWTRMDIDGKPHPHSFIRDSEEKRNV
QVDVVEGKGIDIKSSLSGLTVLKSTNSQFWGFLRDEYTTLKETWDRILSTDVDATWQWKNFSGLQ
EVRSHVPKFDATWATAREVTLKTFAEDNSASVQATMYKMAEQILARQQLIETVEYSLPNKHYFEI
DLSWHKGLQNTGKNAEVFAPQSDPNGLIKCTVGRS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>2PKTA
SMTTQQIDLQGPGPWGFRLVGGKDFEQPLAISRVTPGSKAALANLCIGDVITAIDGENTSNMTHL
EAQNRIKGCTDNLTLTVARSEHESDL
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000
>2PQ9A
MESLTLQPIARVDGTINLPGSKSVSNRALLLAALAHGKTVLTNLLDSDDVRHMLNALTALGVSYT
LSADRTRCEIIGNGGPLHAEGALELFLGNAGTAMRPLAAALCLGSNDIVLTGEPRMKERPIGHLV
DALRLGGAKITYLEQENYPPLRLQGGFTGGNVDVDGSVSSQFLTALLMTAPLAPEDTVIRIKGDL
VSKPYIDITLNLMKTFGVEIENQHYQQFVVKGGQSYQSPGTYLVEGDASSASYFLAAAAIKGGTV
KVTGIGRNSMQGDIRFADVLEKMGATICWGDDYISCTRGELNAIDMDMNHIPDAAMTIATAALFA
KGTTTLRNIYNWRVKETDRLFAMATELRKVGAEVEEGHDYIRITPPEKLNFAEIATYNDHRMAMC
FSLVALSDTPVTILDPKCTAKTFPDYFEQLARISQAA
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>2Q88A
RDENKLEELKEQGFARIAIANEPPFTAVGADGKVSGAAPDVAREIFKRLGVADVVASISEYGAMI
PGLQAGRHDAITAGLFMKPERCAAVAYSQPILCDAEAFALKKGNPLGLKSYKDIADNPDAKIGAP
GGGTEEKLALEAGVPRDRVIVVPDGQSGLKMLQDGRIDVYSLPVLSINDLVSKANDPNVEVLAPV
EGAPVYCDGAAFRKGDEALRDAFDVELAKLKESGEFAKIIEPYGFSAKAAMSTTREKLCAAK
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>2QHUA
MEFLVEDLGLVPYGEAWAYQKRVHREVVAGNRPPTLLLLEHPRVITLGRKATGENLLFPESWYRE
NGFELYWVERGGDVTYHGPGQLVGYPIFPVGREVRRFLRQIEEAIVRVAAGYGISAYPTPGYAGV
WVGEDKLCAIGVAVKEGVSFHGFALNVNTDLNDFTVIVPCGLKGKGVTSLEKLLGRKVPMEEAKA
RVVAAFAEVFGLRPV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>2QPZA
TVKWIEAVALSDILEGDVLGVTVEGKELALYEVEGEIYATDNLCTHGSARMSDGYLEGREIECPL
HQGRFDVCTGKALCAPVTQNIKTYPVKIENLRVMIDLS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>2RJ2A
GSHMFYFLSKRRRNLLRNPCGEEDLEGWSDVEHGGDGWKVEELPGDGNVEFTQDDSVKKYFASSF
EWCRKAQVIDLQAEGYWEELLDTTQPAIVVKDWYSGRTDAGSLYELTVRLLSENEDVLAEFATGQ
VAVPEDGSWMEISHTFIDYGPGVRFVRFEHGGQDSVYWKGWFGARVTNSSVWVEP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>2RKMA
ADVPAGVQLADKQTLVRNNGSEVQSLDPHKIEGVPESNVSRDLFEGLLISDVEGHPSPGVAEKWE
NKDFKVWTFHLRENAKWSDGTPVTAHDFVYSWQRLADPNTASPYASYLQYGHIANIDDIIAGKKP
ATDLGVKALDDHTFEVTLSEPVPYFYKLLVHPSVSPVPKSAVEKFGDKWTQPANIVTNGAYKLKN
WVVNERIVLERNPQYWDNAKTVINQVTYLPISSEVTDVNRYRSGEIDMTYNNMPIELFQKLKKEI
PNEVRVDPYLCTYYYEINNQKAPFNDVRVRTALKLALDRDIIVNKVKNQGDLPAYSYTPPYTDGA
KLVEPEWFKWSQQKRNEEAKKLLAEAGFTADKPLTFDLLYNTSDLHKKLAIAVASIWKKNLGVNV
NLENQEWKTFLDTRHQGTFDVARAGWCADYNEPTSFLNTMLSDSSNNTAHYKSPAFDKLIADTLK
VADDTQRSELYAKAEQQLDKDSAIVPVYYYVNARLVKPWVGGYTGKDPLDNIYVKNLYIIKH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>2RKNA
AIDLCGMSQDELNECKPAVSKENPTSPSQPCCTALQHADFACLCGYKNSPWLGSFGVDPELASAL
PKQCGLANAPTC
0000000000000000000000000000000000000000000000000000000000000000000000

000000000000
>2SILA
TVEKSVVFKAEGEHFTDQKGNTIVGSGSGGTTKYFRIPAMCTTSKGTIVVFADARHNTASDQSFI
DTAAARSTDGGKTWNKKIAIYNDRVNSKLSRVMDPTCIVANIQGRETILVMVGKWNNNDKTWGAY
RDKAPDTDWDLVLYKSTDDGVTFSKVETNIHDIVTKNGTISAMLGGVGSGLQLNDGKLVFPVQMV
RTKNITTVLNTSFIYSTDGITWSLPSGYCEGFGSENNIIEFNASLVNNIRNSGLRRSFETKDFGK
TWTEFPPMDKKVDNRNHGVQGSTITIPSGNKLVAAHSSAQNKNNDYTRSDISLYAHNLYSGEVKL
IDDFYPKVGNASGAGYSCLSYRKNVDKETLYVVYEANGSIEFQDLSRHLPVIKSYN
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000
>2V4CA
ADYDLKFGMNAGTSSNEYKAAEMFAKEVKEKSQGKIEISLYPSSQLGDDRAMLKQLKDGSLDFTF
AESARFQLFYPEAAVFALPYVISNYNVAQKALFDTEFGKDLIKKMDKDLGVTLLSQAYNGTRQTT
SNRAINSIADMKGLKLRVPNAATNLAYAKYVGASPTPMAFSEVYLALQTNAVDGQENPLAAVQAQ
KFYEVQKFLAMTNHILNDQLYLVSNETYKELPEDLQKVVKDAAENAAKYHTKLFVDGEKDLVTFF
EKQGVKITHPDLVPFKESMKPYYAEFVKQTGQKGESALKQIEAINPHHH
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>2V8LA
ASIPSSASVQLDSYNYDGSTFSGKIYVKNIAYSKKVTVVYADGSDNWNNNGNIIAASFSGPISGS
NYEYWTFSASVKGIKEFYIKYEVSGKTYYDNNNSANYQVST
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>2VMTA
MKYLPQQDPQVFAAIEQERKRQHAKIELIASENFVSRAVMEAQGSVLTNKYAEGYPGRRAYGGCE
YVDIVEELARERAKQLFGAEHANVQPHSGAQANMAVYFTVLEHGDTVLGMNLSHGGHLTHGSPVN
FSGVQYNFVAYGVDPETHVIDYDDVREKARLHRPKLIVAAASAYPRIIDFAKFREIADEVGAYLM
VDMAHIAGLVAAGLHPNPVPYAHFVTTTTHKTLRGPRGGMILCQEQFAKQIDKAIFPGIQGGPLM
HVIAAKAVAFGEALQDDFKAYAKRVVDNAKRLASALQNEGFTLVSGGTDNHLLLVDLRPQQLTGK
TAEKVLDEVGITVNKNTIPYDPESPFVTSGIRIGTAAVTTRGFGLEEMDEIAAIIGLVLKNVGSE
QALEEARQRVAALTD
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000

000000000000000
>2VN4A
SVDDFISTETPIALNNLLCNVGPDGCRAFGTSAGAVIASPSTIDPDYYYMWTRDSALVFKNLIDR
FTETYDAGLQRRIEQYITAQVTLQGLSNPSGSLADGSGLGEPKFELTLKPFTGNWGRPQRDGPAL
RAIALIGYSKWLINNNYQSTVSNVIWPIVRNDLNYVAQYWNQTGFDLWEEVNGSSFFTVANQHRA
LVEGATLAATLGQSGSAYSSVAPQVLCFLQRFWVSSGGYVDSNINTNEGRTGKDVNSVLTSIHTF
DPNLGCDAGTFQPCSDKALSNLKVVVDSFRSIYGVNKGIPAGAAVAIGRYAEDVYYNGNPWYLAT
FAAAEQLYDAIYVWKKTGSITVTATSLAFFQELVPGVTAGTYSSSSSTFTNIINAVSTYADGFLS
EAAKYVPADGSLAEQFDRNSGTPLSALHLTWSYASFLTATARRAGIVPPSWANSSASTIPSTCSG
ASVVGSYSRPTATSFPPSQTPKPGVPSGTPYTPLPCATPTSVAVTFHELVSTQFGQTVKVAGNAA
ALGNWSTSAAVALDAVNYADNHPLWIGTVNLEAGDVVEYKYINVGQDGSVTWESDPNHTYTVPAV
ACVTQVVKEDTWQS
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>2W5RA
SEDDLTKVLNYTKQRQTEPNPEYYGVAKKKNIIKIHLESFQTFLINKKVNGKEVTPFLNKLSSGK
EQFTYFPNFFHQTGQGKASDSEFTMDNSLYGLPQGSAFSLKGDNTYQSLPAILDQKQGYKSDVMH
GDYKTFWNRDQVYKHFGIDKFYDATYYDMSDKNVVNLGLKDKIFFKDSANYQAKMKSPFYSHLIT
LTNHYPFTLDEKDATIEKSNTGDATVDGYIQTARYLDEALEEYINDLKKKGLYDNSVIMIYGDHY
GISENHNNAMEKLLGEKITPAKFTDLNRTGFWIKIPGKSGGINNEYAGQVDVMPTILHLAGIDTK
NYLMFGTDLFSKGHNQVVPFRNGDFITKDYKYVNGKIYSNKNNELITTQPADFEKNKKQVEKDLE
MSDNVLNGDLFRFYKNPDFKKVNPSKYKYETGPK
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000
>2WBXA
MQVNRLPFFTNHFFDTYLLISEDTPVGSSVTQLLARDMDNDPLVFGVSGEEASRFFAVEPDTGVV
WLRQPLDRETKSEFTVEFSVSDHQGVITRKVNIQVGD
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000
>2WFRA
QLVPLLYKQFVPGVPERTLGASGPAEGRVARGSERFRDLVPNYNPDIIFKDEENSGADRLMTERC

KERVNALAIAVMNMWPGVRLRVTEGWDEDGHHAQDSLHYEGRALDITTSDRDRNKYGLLARLAVE
AGFDWVYYESRNHVHVSVKADNSLAVKLEHHHHHH
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>2WNDA
SNTQAERSIIGMIDMFHKYTRRDDKIDKPSLLTMMKENFPNFLSACDKKGTNYLAGVFEKKDKNE
DKKIDFSEFLSLMGDIATDYHKKSHGAAPCS
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>2X49A
GSHMTETVPLILLVPKSRREDLEKAQLAERLRSQFFIDYGVRLPEVLLRDGEGLDDNSIVLLINE
IRVEQFTVYFDLMRVVNYSDEVVSFGINPTIHQQGSSQYFWVTHEEGEKLRELGYVLRNALDELY
HCLAVTLARNVNEYFGIQETKHMLDQLEAKFPDLLKEVLRHATVQRISEVLQRLLSERVSVRNMK
LIMEALALWAPREKDVINLVEHIRGAMARYICHKFANGGELRAVMVSAEVEDVIRKGIRQTSGST
FLSLDPEASANLMDLITLKLDDLLIAHKDLVLLTSVDVRRFIKKMIEGRFPDLEVLSFGEIADSK
SVNVIKTI
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
00000000
>2XHMA
ALVKEEIQAKEYLENLNKELAKRTNVETEAAWAYGSNITDENEKKKNEISAELAKFMKEVASDTT
KFQWRSYQSEDLKRQFKALTKLGYAALPEDDYAELLDTLSAMESNFAKVKVCDYKDSTKCDLALD
PEIEEVISKSRDHEELAYYWREFYDKAGTAVRSQFERYVELNTKAAKLNNFTSGAEAWLDEYEDD
TFEQQLEDIFADIRPLYQQIHGYVRFRLRKHYGDAVVSETGPIPMHLLGNMWAQQWSEIADIVSP
FPEKPLVDVSAEMEKQGYTPLKMFQMGDDFFTSMNLTKLPQDFWDKSIIEKPTDGRDLVCHASAW
DFYLTDDVRIKQCTRVTQDQLFTVHHELGHIQYFLQYQHQPFVYRTGANPGFHEAVGDVLSLSVS
TPKHLEKIGLLKDYVRDDEARINQLFLTALDKIVFLPFAFTMDKYRWSLFRGEVDKANWNCAFWK
LRDEYSGIEPPVVRSEKDFDAPAKYHISADVEYLRYLVSFIIQFQFYKSACIKAGQYDPDNVELP
LDNCDIYGSAAAGAAFHNMLSMGASKPWPDALEAFNGERIMSGKAIAEYFEPLRVWLEAENIKNN
VHIGWTTSNKCVS
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000

>2XYMA
SMSYSWTGALITPCSPEEEKLPINPLSNSLLRYHNKVYCTTSKSASQRAKKVTFDRTQVLDAHYD
SVLKDIKLAASKVSARLLTLEEACQLTPPHSARSKYGFGAKEVRSLSGRAVNHIKSVWKDLLEDP
QTPIPTTIMAKNEVFCVDPAKGGKKPARLIVYPDLGVRVCEKMALYDITQKLPQAVMGASYGFQY
SPAQRVEYLLKAWAEKKDPMGFSYDTRCFDSTVTERDIRTEESIYQACSLPEEARTAIHSLTERL
YVGGPMFNSKGQTCGYRRCRASGVLTTSMGNTITCYVKALAACKAAGIVAPTMLVCGDDLVVISE
SQGTEEDERNLRAFTEAMTRYSAPPGDPPRPEYDLELITSCSSNVSVALGPRGRRRYYLARDPTT
PLARAAWETVRHSPINSWLGNIIQYAPTIWVRMVLMTHFFSILMVQDTLDQNLNFEMYGSVYSVN
PLDLPAIIERLHGLDAFSMHTYSHHELTRVASALRKLGAPPLRVWKSRARAVRASLISRGGKAAV
CGRYLFNWAVKTKLKLTPLPEARLLDLSSWFTVGAGGGDIFHS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>2YL8A
NEKLAKKKIVSIDAGRKYFSPEQLKEIIDKAKHYGYTDLHLLVGNDGLRFMLDDMSITANGKTYA
SDDVKRAIEKGTNDYYNDPNGNHLTESQMTDLINYAKDKGIGLIPTVNSPGHMDAILNAMKELGI
QNPNFSYFGKKSARTVDLDNEQAVAFTKALIDKYAAYFAKKTEIFNIGLDQYANDATDAKGWSVL
QADKYYPNEGYPVKGYEKFIAYANDLARIVKSHGLKPMAFNDGIYYNSDTSFGSFDKDIIVSMWT
GGWGGYDVASSKLLAEKGHQILNTNDAWYYVLGRNADGQGWYNLDQGLNGIKNTPITSVPKTEGA
DIPIIGGMVAAWADTPSARYSPSRLFKLMRHFANANAEYFAADYESAEQALNEVPKDLNRYTAES
VTAVKEAEKAIRSLDSNLSRAQQDTIDQAIAKLQETVNNLTLTP
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>2YVOA
MSPWERILLEEILSEPVRLVKERVRTHTGRELTYVYRPGPVAASFVLPVTERGTALLVRQYRHPT
GKFLLEVPAGKVDEGETPEAAARRELREEVGAEAETLIPLPSFHPQPSFTAVVFHPFLALKARVV
TPPTLEEGELLESLELPLTEVYALLAKGEIQDASTALTLFYAEPHLKRLGLL
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>2Z3VA
MFKTILLAYDGSEHARRAAEVAKAEAEAHGARLIVVHAYEPVPDYLGEPFFEEALRRRLERAEGV
LEEARALTGVPKEDALLLEGVPAEAILQAARAEKADLIVMGTRGLGALGSLFLGSQSQRVVAEAP

CPVLLVR
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000
>2ZEQA
MGMIVFVRFNSSYGFPVEVDSDTSILQLKEVVAKRQGVPADQLRVIFAGKELPNHLTVQNCDLEQ
QSIVHIVQRPRRR
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>3A0TA
MEFTEFNLNELIREVYVLFEEKIRKMNIDFCFETDNEDLRVEADRTRIKQVLINLVQNAIEATGE
NGKIKITSEDMYTKVRVSVWNSGPPIPEELKEKIFSPFFTTKTQGTGLGLSICRKIIEDEHGGKI
WTENRENGVVFIFEIPKTPEKR
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>3AAPA
KHSCIAVIDAGSTGSRLHIYSYDTDDTNTPIHIEEIWNKKIKPGFASIQPNSVTIDAYLTMLLAD
APIHNIPVYFYATAGMRLLPQSQQKKYYDELEYWFRQQSQWQLVEAKTITGNDEALFDWLAVNYK
LDTLKSVQNKSVGVMDMGGASVQIVFPMPKNAEISKHNQVELNIYGQNINLYVHSFLGLGQTEMS
HQFLNSPSCFANDYPLPDGESGQGNAPSCKEEVTSLMNSVHKVNQQIQPLLALNPVNEWYSIGGI
SNLASSQLFHFENSELTNQSLLQQGDNQICHQQWDILNGQYPDDEYLYQYCLLSSYYYALMVDGY
GINPNQTIHYIPPEQNLDWTIGVVLHRA
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>3ATLA
IVGGYTCGANTVPYQVSLNSGYHFCGGSLINSQWVVSAAHCYKSGIQVRLGEDNINVVEGNEQFI
SASKSIVHPSYNSNTLNNDIMLIKLKSAASLNSRVASISLPTSCASAGTQCLISGWGNTKSSGTS
YPDVLKCLKAPILSDSSCKSAYPGQITSNMFCAGYLEGGKDSCQGDSGGPVVCSGKLQGIVSWGS
GCAQKNKPGVYTKVCNYVSWIKQTIASN
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>3BODA
APLGSTYIFSKGGGQITYKWPPNDRPSTRADRLAIGFSTVQKEAVLVRVDSSSGLGDYLELHIHQ
GKIGVKFNVGTDDIAIEESNAIINDGKYHVVRFTRSGGNATLQVDSWPVIERYPAGRQLTIFNSQ
ATIIIGGKEQGQPFQGQLSGLYYNGLKVLNMAAENDANIAIVGNVRLV
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000
>3BV4A
HPALTPEQKKELSDIAHRIVAPGKGILAADESTGSIAKRLQSIGTENTEENRRFYRQLLLTADDR
VNPCIGGVILFHETLYQKADDGRPFPQVIKSKGGVVGIKVDKGVVPLAGTNGETTTQGLVGLSER
CAQYKKDGADFAKWRCVLKIGEHTPSALAIMENANVLARYASICQQNGIVPIVEPEILPDGDHDL
KRCQYVTEKVLAAVYKALSDHHIYLEGTLLKPNMVTPGHACTQKYSHEEIAMATVTALRRTVPPA
VTGVTFLSGGQSEEEASINLNAINKCPLLKPWALTFSYGRALQASALKAWGGKKENLKAAQEEYV
KRALANSLACQGKYTS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>3CJJA
MAQNITARIGEPLVLKCKGAPKKPPQRLEWKLNTGRTEAWKVLSPQGGGPWDSVARVLPNGSLFL
PAVGIQDEGIFRCQAMNRNGKETKSNYRVRVYQIPGKPEIVDSASELTAGVPNKVGTCVSEGSYP
AGTLSWHLDGKPLVPNEKGVSVKEQTRRHPETGLFTLQSELMVTPARGGDPRPTFSCSFSPGLPR
HRALRTAPIQPRVWEPVPLEEVQL
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000
>3CSZA
MVYVSNKYLTMSEMKVNAQYILNYLSSNGWTKQAICGMLGNMQSESTINPGLWQNLDEGNTSLGF
GLVQWTPASNYINWANSQGLPYKNMDSELKRIIWEVNNNAQWINLRDMTFKEYIKSTKTPRELAM
IFLASYERPANPNQPERGDQAEYWYKNLS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>3EAUA
MLQFYRNLGKSGLRVSCLGLGTWVTFGGQITDEMAEHLMTLAYDNGINLFDTAEVYAAGKAEVVL
GNIIKKKGWRRSSLVITTKIFWGGKAETERGLSRKHIIEGLKASLERLQLEYVDVVFANRPDPNT
PMEETVRAMTHVINQGMAMYWGTSRWSSMEIMEAYSVARQFNLIPPICEQAEYHMFQREKVEVQL
PELFHKIGVGAMTWSPLACGIVSGKYDSGIPPYSRASLKGYQWLKDKILSEEGRRQQAKLKELQA
IAERLGCTLPQLAIAWCLRNEGVSSVLLGASNAEQLMENIGAIQVLPKLSSSIVHEIDSILGNKP
YS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00
>3ENJA

ASSTNLKDILADLIPKEQARIKTFRQQHGNTVVGQITVDMMYGGMRGMKGLVYETSVLDPDEGIR
FRGYSIPECQKMLPKAKGGEEPLPEGLFWLLVTGQIPTEEQVSWLSKEWAKRAALPSHVVTMLDN
FPTNLHPMSQLSAAITALNSESNFARAYAEGIHRTKYWELIYEDCMDLIAKLPCVAAKIYRNLYR
EGSSIGAIDSKLDWSHNFTNMLGYTDAQFTELMRLYLTIHSDHEGGNVSAHTSHLVGSALSDPYL
SFAAAMNGLAGPLHGLANQEVLVWLTQLQKEVGKDVSDEKLRDYIWNTLNSGRVVPGYGHAVLRK
TDPRYTCQREFALKHLPHDPMFKLVAQLYKIVPNVLLEQGKAKNPWPNVDAHSGVLLQYYGMTEM
NYYTVLFGVSRALGVLAQLIWSRALGFPLERPKSMSTDGLIKLVDSK
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>3FBLA
YHKLRLAIKEICKTDGIPNIKWGMYIAFGEKLLKSYLKMKAGSASSDMIAEYINNAISAFSSRTG
ISQETAQKIADFITSNY
0000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>3GMUB
AGVMTGAKFTQIQFGMTRQQVLDIAGAENCETGGSFGDSIHCRGHAAGDYYAYATFGFTSAAADA
KVDSKSQEKLLAPSAPTLTLAKFNQVTVGMTRAQVLATVGQGSCTTWSEYYPAYPSTAGVTLSLS
CFDVDGYSSTGFYRGSAHLWFTDGVLQGKRQWDLV
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>3GOTA
GGACAAAACGCGGGAAGGCACGCAAGCACCGGGCACCGAAAGCCGAAGCC
0000000000000000000000000000000000000000000000000
>3GWMA
AIVGVGIDLVSIPDFAEQVDRPGTVFAETFTPGERRDAADKSSSAARHLAARWAAKEAVIKAWSS
SRFSKRPALPEGIHRDIEVVTDMWGRPKVRLSGEIAKHLEDVTIHVSLTHEDQTAAAVAIIEEP
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>3HVVA
SQTVHFQGNPVTVANSIPQAGSKAQTFTLVAKDLSDVTLGQFAGKRKVLNIFPSIDTGVSAASVR
KFNQLATEIDNTVVLCISADLPFAQSRFCGAEGLNNVITLSTFRNAEFLQAYGVAIADGPLKGLA
ARAVVVIDENDNVIFSQLVDEITTEPDYEAALAVLKA
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>3HXWA
SKSTAEIRQAFLDFFHSKGHQVVASSSLVPHNDPTLLFTNAGMNQFKDVFLGLDKRNYSRATTSQ
RCVRAGGKHNDLENVGYTARHHTFFEMLGNFSFGDYFKLDAILFAWLLLTSEKWFALPKERLWVT

VYESDDEAYEIWEKEVGIPRERIIRIGDNKGAPYASDNFWQMGDTGPCGPCTEIFYDHGDHIWGG
PPGSPEEDGDRYIEIWNIVFMQFNRQADGTMEPLPKPSVDTGMGLERIAAVLQHVNSNYDIDLFR
TLIQAVAKVTGATDLSNKSLRVIADHIRSCAFLIADGVMPSNENRGYVLRRIIRRAVRHGNMLGA
KETFFYKLVGPLIDVMGSAGEDLKRQQAQVEQVLKTEEEQFARTLERGLALLDEELAKLSGDTLD
GETAFRLYDTYGFPVDLTADVCRERNIKVDEAGFEAAMEEQRRRAREASGF
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>3KB0A
SEQKTLEPVIKTYHQFEPDPTTCTSLITQRIHAPASVVWPLIRRFDNPERYKHFVKRCRLISGDG
DVGSVREVTVISGLPASTSTERLEFVDDDHRVLSFRVVGGEHRLKNYKSVTSVNEFLNQDSGKVY
TVVLESYTVDIPEGNTEEDTKMFVDTVVKLNLQKLGVAATSAPMHD
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>3KIVA
QCYHGNGQSYRGTFSTTVTGRTCQSWSSMTPHRHQRTPENYPNDGLTMNYCRNPDADTGPWCFTT
DPSIRWEYCNLTRC
0000000000000000000000000000000000000000000000000000000000000000
00000000000000
>3KZ7A
EGPPKYTKSILKKGDKTNFPKKGDVVHCWYTGTLPDGTVFDTNIQTSSKKKKNAKPLSFKVGVGK
VIRGWDEALLTMSKGEKARLEIEPEWAYGKKGQPDAKIPPNTKLIFEVELVDID
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>3LH4A
MELALRGGYRERSNQDDPEYLELAHYATSTWSAQQPGKTHFDTVVEVLKVETQTVAGTNYRLTLK
VAESTCELTSTYNKDTCQANANAAQRTCTTVIYRNLQGEKSISSFECAAA
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>3M0SA
KELVLALYDYQEKSPDEVTMKKGDILTLLNSTNKDWWKVEVNDRQGFVPAAYVKKLD
0000000000000000000000000000000000000000000000000000000
>3M66A
DYVDHSETLQKLVLLGVDLSKIEKHPEAANLLLRLDFEKDIKQMLLFLKDVGIEDNQLGAFLTKN
HAIFSEDLENLKTRVAYLHSKNFSKADVAQMVRKAPFLLNFSVERLDNRLGFFQKELELSVKKTR
DLVVRLPRLLTGSLEPVKENMKVYRLELGFKHNEIQHMITRIPKMLTANKMKLTETFDFVHNVMS
IPHHIIVKFPQVFNTRLFKVKERHLFLTYLGRAQYDPAKPNYISLDKLVSIPDEIFCEEIAKASV
QDFEKFLKTL
0000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000
>3MB5A
MIREGDKVVLVDPRGKRYLITVSKRDFHTDLGILKLEEIIGRNFGEAIKSHKGHEFKILRPRIVD
YLDKMKRGPQIVHPKDAALIVAYAGISPGDFIVEAGVGSGALTLFLANIVGPEGRVVSYEIREDF
AKLAWENIKWAGFDDRVTIKLKDIYEGIEEENVDHVILDLPQPERVVEHAAKALKPGGFFVAYTP
CSNQVMRLHEKLREFKDYFMKPRTINVLVFDQEVKKECMRPRTTALVHTGYITFARRILE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>3MGWA
HHDITKVDTSGASEITARQDKLTLQGVDASHKLAEHDLVRMNKYKELITRVGQKHGLDPAIIAGI
ISRESRAGSALDHGWGDHGKGFGLMQVDKRYHKIVGAWDSEKHISQGTEILIEFIRRIQAKFPVW
PKEHQLKGGISAYNAGDKNVRTYERMDVGTTGGDYSNDVVARSQWFKSQGY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>3MWQA
KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVAC
KNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASVSGRSGR
SGKETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNV
ACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>3N2UA
GPVWRKHYITYRINNYTPDMNREDVDYAIRKAFQVWSNVTPLKFSKINTGMADILVVFARGAHGD
DHAFDGKGGILAHAFGPGSGIGGDAHFDEDEFWTTHSGGTNLFLTAVHEIGHSLGLGHSSDPKAV
MFPTYKYVDINTFRLSADDIRGIQSLYG
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>3NJXA
AFGITTSSSAYVIDTNAPNQLKFTVSRSSCDITSIIHYGTELQYSSQGSHIGSGLGSATVTATQS
GDYIKVTCVTDTLTQYMVVHNGDPIIHMATYITAEPSIGELRFIARLNSDLLPNEEPFGDVSTTA
DGTAIEGSDVFLVGSETRSKFYSSERFIDDQRHCIAGDAHRVCMILNQYESSSGGPFHRDINSNN
GGSYNALYWYMNSGAVQTESYRMGLHGPYSMYFSRSGTPSTSIDTSFFADLDIKGYVAASGRGKV
AGTASGADSSMDWVVHWYNDAAQYWTYTSSSGSFTSPAMKPGTYTMVYYQGEYAVATSSVTVSAG
STTTKNISGSVKTGTTIFKIGEWDGQPTGFRNAANQLRMHPSDSRMSSWGPLTYTVGSSALTDFP
MAVFKSVNNPVTIKFTATSAQTGAATLRIGTTLSFAGGRPQATINSYTGSAPAAPTNLDSRGVTR

GAYRGLGEVYDVSIPSGTIVAGTNTITINVISGSSGDTYLSPNFIFDCVELFQ
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>3NQ9A
LIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVEELKPTPEGDLEILLQKWENGE
CAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLLFCMENSAEPEQSLACQCLVRTPEVDD
EALEKFDKALKALPMHIRLSFNPTQLEEQCHI
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>3O0JA
NEDHLAKELEDLNKWGLNIFNVAGYSHNRPLTCIMYAIFQERDLLKTFRISSDTFITYMMTLEDH
YHSDVAYHNSLHAADVAQSTHVLLSTPALDAVFTDLEILAAIFAAAIHDVDHPGVSNQFLINTNS
ELALMYNDESVLENHHLAVGFKLLQEEHCDIFMNLTKKQRQTLRKMVIDMVLATDMSKHMSLLAD
LKTMVETKKVTSSGVLLLDNYTDRIQVLRNMVHCADLSNPTKSLELYRQWTDRIMEEFFQQGDKE
RERGMEISPMCDKHTASVEKSQVGFIDYIVHPLWETWADLVQPDAQDILDTLEDNRNWYQSMI
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000
>3ONJA
SLLISYESDFKTTLEQAKASLAEAPSQPLSQRNTTLKHVEQQQDELFDLLDQMDVEVNNSIGDAS
ERATYKAKLREWKKTIQSDIKRPLQSLVDSGD
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>3OOIA
SKELRQLQEDRKNDKKPPPYKHIKVNRPIGRVQIFTADLSEIPRCNCKATDENPCGIDSECINRM
LLYECHPTVCPAGGRCQNQCFSKRQYPEVEIFRTLQRGWGLRTKTDIKKGEFVNEYVGELIDEEE
CRARIRYAQEHDITNFYMLTLDKDRIIDAGPKGNYARFMNHCCQPNCETQKWSVNGDTRVGLFAL
SDIKAGTELTFNYNLECLGNGKTVCKCGAPNCSGFLG
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>3OVOA
LAAVSVDCSEYPKPACPKDYRPVCGSDNKTYSNKCNFCNAVVESNGTLTLNHFGKC
0000000000000000000000000000000000000000000000000000000

>3PRNA
MISLNGYGRFGLQYVEDRGVGLEDTIISSRLRINIVGTTETDQGVTFGAKLRMQWDDGDAFAGTA
GNAAQFWTSYNGVTVSVGNVDTAFDSVALTYDSEMGYEWSSFGDAQSSFFAYNSKYDASGALDNY
NGIAVTYSISGVNLYLSYVDPDQTVDSSLVTEEFGIAADWSNDMISLAAAYTTDAGGIVDNDIAF
VGAAYKFNDAGTVGLNWYDNGLSTAGDQVTLYGNYAFGATTVRAYVSDIDRAGADTAYGIGADYQ
FAEGVKVSGSVQSGFANETVADVGVRFDF
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>3PSAA
DRIITDQLDRKVTIPDHINRAVVLQHQTLNIAVQLDATKQIVGVLSNWKKQLGKNYVRLAPELEN
MAMPGDLNSVNIESLLALKPDVVFVTNYAPSEMIKQISDVNIPVVAISLRTGEVGEKGKLNPTLT
DEDKAYNDGLKQGIELIAEVFEKKQQGDELVKAAFANRKLLADRLGDVSADKRVRTYMANPDLGT
YGSGKYTGLMMEHAGAYNVAAATIKGFKQVSLENVLEWNPAVILVQDRYPDVVPQILNDQGWANI
QALKDKKVFLMPEYAKAWGYPMPEALALGEVWLAKALYPQRFQDVDLDKMVNDYYQKFYRTSYKP
D
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0
>3R2MA
MQGHPEVIDYLNTLLTGELAARDQYFIHSRMYEDWGFSKLYERLNHEMEEETQHADALLRRILLL
EGTPRMRPDDIHPGTTVPEMLEADLKLERHVRAALAKGIALCEQHKDFVSRDILKAQLADTEEDH
AYWLEQQLGLIARMGLENYLQSQI
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000
>3RGOA
WYHRIDHTVLLGALPLKNMTRRLVLDENVRGVITMNEEYETRFLCNTSKEWKKAGVEQLRLSTVD
MTGVPTLANLHKGVQFALKYQALGQCVYVHCKAGRSRSATMVAAYLIQVHNWSPEEAIEAIAKIR
SHISIRPSQLEVLKEFHKEITARAAKN
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>3RLJA
PIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMA
VIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQIT
PQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDS
VQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFH
0000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>3SNSA
ASTTMDVQSAADDTGLPMLVVRGPFNVVWQRLPAALEKVGMKVTDSTRSQGNMAVTYKPLSDSDW
QELGASDPGLASGDYKLQVGDLDNRSSLQFIDPKGHTLTQSQNDALVAVFQAAFS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>3SO8A
NSLSVHQLAAQGEMLYLATRIEQENVINHTDEEGFTPLMWAAAHGQIAVVEFLLQNGADPQLLGK
GRESALSLACSKGYTDIVKMLLDCGVDVNEYDWNGGTPLLYAVHGNHVKCVKMLLESGADPTIET
DSGYNSMDLAVALGYRSVQQVIESHLLKLLQN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>3TITA
SGFRKMAFPSGKVEGCMVQVTCGTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHS
FLVQAGNVQLRVIGHSMQNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAM
RPNHTIKGSFLNGSCGSVGFNIDYDCVSFCYMHHMELPTGVHAGTDLEGKFYGPFVDRQTAQAAG
TDTTITLNVLAWLYAAVINGDRWFLNRFTTTLNDFNLVAMKYNYEPLTQDHVDILGPLSAQTGIA
VLDMCAALKELLQNGMNGRTILGSTILEDEFTPFDVVRQCSGVTFQ
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>3TN2A
APMGSDPATACCFSYTARKLPRNFVVDYYETSSLCSQPAVVFQTKRSKQVCADPSESWVQEYVYD
LEL
0000000000000000000000000000000000000000000000000000000000000000000000
000
>3VM4A
GPDETLSLLADPYRFISRQCQRLGANAFESRFLLKKTNCLKGAKAAEIFYDTTRFEREGAMPVAI
QKTLLGQGGVQGLDGETHRHRKQMFMGLMTPERVRALAQLFEAEWRRAVPGWTRKGEIVFYDELH
EPLTRAVCAWAGVPLPDDEAGNRAGELRALFDAAGSASPRHLWSRLARRRVDAWAKRIIEGIRAG
SIGSGSGTAAYAIAWHRDRHDDLLSPHVAAVELVNVLRPTVAIAVYITFVAHALQTCSGIRAALV
QQPDYAELFVQEVRRFYPFFPAVVARASQDFEWEGMAFPEGRQVVLDLYGSNHDAATWADPQEFR
PERFRAWDEDSFNFIPQGGGDHYLGHRCPGEWIVLAIMKVAAHLLVNAMRYDVPDQDLSIDFARL
PALPKSGFVMRNVHIGG
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>3WFVA
AGAGQSNDSGIVQQQSNLLRAIEAQQHLLQLTVWGIKQLQTRVLGGGGRWMQWDKEISNYTNTVY
RLLEESQNQQERNEKDLLALA
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>4AWNA
LKIAAFNIQTFGETKMSNATLVSYIVQILSRYDIALVQEVRDSHLTAVGKLLDNLNQDAPDTYHY
VVSEPLGRNSYKERYLFVYRPDQVSAVDSYYYDDGCEPCGNDTFNREPAIVRFFSRFTEVREFAI
VPLHAAPGDAVAEIDALYDVYLDVQEKWGLEDVMLMGDFNAGCSYVRPSQWSSIRLWTSPTFQWL
IPDSADTTATPTHCAYDRIVVAGMLLRGAVVPDSALPFNFQAAYGLSDQLAQAISDHYPVEVMLK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>4BCBA
MLSFQYPDVYRDETAIQDYHGHKVCDPYAWLEDPDSEQTKAFVEAQNKITVPFLEQCPIRGLYKE
RMTELYDYPKYSCHFKKGKRYFYFYNTGLQNQRVLYVQDSLEGEARVFLDPNILSDDGTVALRGY
AFSEDGEYFAYGLSASGSDWVTIKFMKVDGAKELPDVLERVKFSCMAWTHDGKGMFYNAYPQQDG
KSDGTETSTNLHQKLYYHVLGTDQSEDILCAEFPDEPKWMGGAELSDDGRYVLLSIREGCDPVNR
LWYCDLQQESNGITGILKWVKLIDNFEGEYDYVTNEGTVFTFKTNRHSPNYRLINIDFTDPEESK
WKVLVPEHEKDVLEWVACVRSNFLVLCYLHDVKNTLQLHDLATGALLKIFPLEVGSVVGYSGQKK
DTEIFYQFTSFLSPGIIYHCDLTKEELEPRVFREVTVKGIDASDYQTVQIFYPSKDGTKIPMFIV
HKKGIKLDGSHPAFLYGYGGFNISITPNYSVSRLIFVRHMGGVLAVANIRGGGEYGETWHKGGIL
ANKQNCFDDFQCAAEYLIKEGYTSPKRLTINGGSNGGLLVATCANQRPDLFGCVIAQVGVMDMLK
FHKYTIGHAWTTDYGCSDSKQHFEWLIKYSPLHNVKLPEADDIQYPSMLLLTADHDDRVVPLHSL
KFIATLQYIVGRSRKQNNPLLIHVDTKAGHGAGKPTAKVIEEVSDMFAFIARCLNIDWIP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>4C1XA
GAMVIEKEDVETNASNGQRVDLSSELDKLKKLENATVHMEFKPDAKAPAFYNLFSVSSATKKDEY
FTMAVYNNTATLEGRGSDGKQFYNNYNDAPLKVKPGQWNSVTFTVEKPTAELPKGRVRLYVNGVL
SRTSLRSGNFIKDMPDVTHVQIGATKRANNTVWGSNLQIRNLTVYNRALTPEEVQKRS
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>4DWMA
DVSFRLSGADPSSYGMFIKDLRNALPHTEKVYNIPLLLPSVSGAGRYLLMHLFNYDGNTITVAVD
VTNVYIMGYLALTTSYFFNEPAADLASQYVFRSARRKITLPYSGNYERLQIAAGKPREKIPIGLP
ALDTAISTLLHYDSTAAAGALLVLIQTTAEAARFKYIEQQIQERAYRDEVPSSATISLENSWSGL
SKQIQLAQGNNGVFRTPTVLVDSKGNRVQITNVTSNVVTSNIQLLLNTKNI
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>4E12A
MTGITNVTVLGTGVLGSQIAFQTAFHGFAVTAYDINTDALDAAKKRFEGLAAVYEKEVAGAADGA
AQKALGGIRYSDDLAQAVKDADLVIEAVPESLDLKRDIYTKLGELAPAKTIFATNSSTLLPSDLV
GYTGRGDKFLALHFANHVWVNNTAEVMGTTKTDPEVYQQVVEFASAIGMVPIELKKEKAGYVLNS
LLVPLLDAAAELLVDGIADPETIDKTWRIGTGAPKGPFEIFDIVGLTTAYNISSVSGPKQREFAA
YLKENYIDKGKLGLATGEGFYRY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000
>4EAFA
LFLAQEIIRKKRDGHALSDEEIRFFINGIRDNTISEGQIAALAMTIFFHDMTMPERVSLTMAMRD
SGTVLDWKSLHLNGPIVDKHSTGGVGDVTSLMLGPMVAACGGYIPMISGRGLGHTGGTLDKLESI
PGFDIFPDDNRFREIIKDVGVAIIGQTSSLAPADKRFYATRDITATVDSIPLITASILAKKLAEG
LDALVMDVKVGSGAFMPTYELSEALAEAIVGVANGAGVRTTALLTDMNQVLASSAGNAVEVREAV
QFLTGEYRNPRLFDVTMALCVEMLISGKLAKDDAEARAKLQAVLDNGKAAEVFGRMVAAQKGPTD
FVENYAKYLPTAMLTKAVYADTEGFVSEMDTRALGMAVVAMGGGRRQASDTIDYSVGFTDMARLG
DQVDGQRPLAVIHAKDENNWQEAAKAVKAAIKLADKAPESTPTVYRRISE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>4EVMA
EVADFELMGVDGKTYRLSDYKGKKVYLKFWASWCSICLASLPDTDEIAKEAGDDYVVLTVVSPGH
KGEQSEADFKNWYKGLDYKNLPVLVDPSGKLLETYGVRSYPTQAFIDKEGKLVKTHPGFMEKDAI
LQTLKELA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000

>4F68A
MVNWAAVVDDFFQELFKAHPEYQNKFGFKGVALGSLKGNAAYKTLAGKVVDYINAWIGGSADAAG
LASRHKGRNVGSAEFHNAKACLAKACSAHGAPDLGHAIDDILSHL
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>4FCUA
MKHIVIPARFSSSRLPGKPLLLIHDRPMILRVVDQAKKVEGFDDLCVATDDERIAEICRAEGVDV
VLTSADHPSGTDRLSEVARIKGWDADDIIVNVQGDEPLLPAQLVQQVAKLLVDKPNCSMSTLCEP
IHALDEFQRDSIVKVVMSKQNEALYFSRATIPYDRDGAKRDEPTLHTQAFRHLGLYAYRVSLLQE
YVTWEMGKLEKLESLEQLRVLENGHRIAIAVAEANLPPGVDTQADLDRLNNMPVESFE
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>4FIVA
VGTTTTLEKRPEILIFVNGYPIKFLLDTGADITILNRRDFQVKNSIENGRQNMIGVGGGKRGTNY
INVHLEIRDENYKTQCIFGNVCVLEDNSLIQPLLGRDNMIKFNIRLVM
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>4FWYA
VLSEGEWQLVLHVWAKVEADVAGHGQDIHIRLYKSHPETLEKHDRFKHLKTEAEMKASEDLKKHG
VTVLTALGAILKKKGHHEAELKPLAQSHATKHKIPIKYLEFISEAIIHVLHSRHPGDFGADAQGA
MNKALELFRKDIAAKYKELGYQG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>4G57A
LHKEPATLIKAIDGDTVKLMYKGQPMTFRLLLVDTPETKHPKKGVEKYGPEASAFTKKMVENAKK
LEVEFDKGQRTDKYGRGLAYLYADGKMVNEALVRQGLAKVAYVYKPNNTHEQHLRKSEAQAKKEK
LNIWS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000
>4GFXA
VAAIKSFEVVFNDPEKVYGSGEKVAGRVIVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTSE
YLRYEDTLLLEDQPTGENEMVIMRPGNKYEYKFGFELPQGPLGTSFKGKYGCVDYWVKAFLDRPS
QPTQETKKNFEVVDLVDVNTP
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>4GULA
SSKKVTLSVLSREQSEGVGARVRRSIGRPELKNLDPFLLFDEFKGGRPGGFPDHPHRGFETVSYL
LEGGSMAHEDFCGHTGKMNPGDLQWMTAGRGILHAEMPCSEEPAHGLQLWVNLRSSEKMVEPQYQ
ELKSEEIPKPSKDGVTVAVISGEALGIKSKVYTRTPTLYLDFKLDPGAKHSQPIPKGWTSFIYTI

SGDVYIGPDDAQQKIEPHHTAVLGEGDSVQVENKDPKRSHFVLIAGEPLREPVIQHGPFVMNTNE
EISQAILDFRNAKNGFERAKTWKSKIGN
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>4I35A
TTGYDAVDDLLHYHERGNGIQINGKDSFSNEQAGLFITRENQTWNGYKVFGQPVKLTFSFPDYKF
SSTNVAGDTGLSKFSAEQQQQAKLSLQSWADVANITFTEVAAGQKANITFGNYSQDRPGHYDYGT
QAYAFLPNTIWQGQDLGGQTWYNVNQSNVKHPATEDYGRQTFTHEIGHALGLSHPGDYNAGEGNP
TYNDVTYAEDTRQFSLMSYWSETNTGGDNGGHYAAAPLLDDIAAIQHLYGANLSTRTGDTVYGFN
SNTGRDFLSTTSNSQKVIFAAWDAGGNDTFDFSGYTANQRINLNEKSFSDVGGLKGNVSIAAGVT
IENAIGGSGNDVIVGNAANNVLKGGAGNDVLFGGGGADELWGGAGKDIFVFSAASDSAPGASDWI
RDFQKGIDKIDLSFFNKEANSSDFIHFVDHFSGTAGEALLSYNASSNVTDLSVNIGGHQAPDFLV
KIVGQVDVATDFIV
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
00000000000000
>4I4QA
VNFPNIPAEGVRFRLRARDSGYVIYSRTENDPLVWHYNGPPYDDQLFTLIHGTGSRLNLYAIKSV
PNGRVLFSRNSASPTVGNIVGDGTYNDNWFQFIQDDNDANSFRIYSLASDSVLYSRTTGAPQFGN
YTGPKFDDQLWHFEIV
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>4J69A
KETAAAKFERQHMDSSTSAASSSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQKNVAC
KNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>4JJOA
MTTHGRATHYSLGQGNTIANGNCSMPAVPADRMYVAVSSPEYSGAAACGTFLDVTGPKGTVRVQV
ADQCHGCEVGHLDLSEEAFRALGDFNAGIIPISYVTVRDPAGPTVAIRVKEGSSRWWAGLQVLNA
GNRIDRVEIQAGRQWLPLTRTDYGYWVTPSPIQDGPLTVKVTDQYGRAVVLPGLRMAPGEIQRTA
SRFYPVH
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000

0000000
>4KMYA
GSRTDLLNVCMDAKHHKTKPGPEDKLHDQCSPWKKNACCTASTSQELHKDTSRLYNFNWDHCGKM
EPACKRHFIQDTCLYECSPNLGPWIQQVNQSWRKERFLDVPLCKEDCQRWWEDCHTSHTCKSNWH
RGWDWTSGVNKCPAGALCRTFESYFPTPAALCEGLWSHSYKVSNYSRGSGRCIQMWFDSAQGNPN
EEVARFYAAAMH
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000
>4L9RA
MSLRIGVIGTGKIGKEHINRITNKLSGAEIVAVTSVNQEAAQKVVEQYQLNATVYPNDDSLLADE
NVDAVLVTSWGPAHESSVLKAIKAQKYVFCEKPLATTAEGCMRIVEEEIKVGKRLVQVGFMRRYD
SGYVQLKEALDNHVIGEPLMIHCAHRNPTVGDNYTTDMAVVDTLVHEIDVLHWLVNDDYESVQVI
YPKKSKNALPHLKDPQIVVIETKGGIVINAEIYVNCKYGYDIQCEIVGEDGIIKLPEPSSISLRK
EGRFSTDILMDWQRRFVAAYDVEIQDFIDSIQKKGEVSGPTAWDGYIAAVTTDACVKAQESGEKE
KVELKEKPEFYQ
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000
>4MB5A
GTITSQDDNVVVGYWHNWCDGRGYQGGNAPCVELKTVNPQYNVVNISFMKVYDIAEGRIPTFKLD
PTIALSEAEFIAQIDTLNSQGRSVLIALGGADAHIELTRGDEDALAAEIIRLTDLYGFDGLDIDL
QQAAITAKDNQFVIPAALKMVKEHYRKTGDNFMITMAPEFPYLTANGAYTPYLTELDGYYDFINP
QFYNQGGDGLWIEGVGWIAQNNDALKEEFIYYIADSLINGTRNYHKIPHDKLVFGLPSNIDAAAT
GYIQDPQDLYKAFDRLKAQGQPLRGVMTWSVNWDMGTDAANNSYNQQFIKDYGNFIHNQLPPVTD
MTPTLSGIVDTRVELDSHFDPLIGITAKDYQGNDITADVTVSGSVNTNQVGDYLLTYSVSSDDET
TNQPRKITVYEILPAFTGITDTTVVIDSEFDPMQGVSASHPTQGDLTANITVTGEVDTNVVGVYE
LTYQLFYGQDNQQNMTDKRIVTVVTDAVSDDDWQVGSTYVKDDKVTHNGATWTAQWWTKGEEPGT
TGEWGVWR
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
00000000
>4NLLA
MKIVYWSGTGNTEKMAELIAKGIIESGKDVNTINVSDVNIDELLNEDILILGCSAMDDEVLEESE

FEPFIEEISTKISGKKVALFGSYGWGDGKWMRDFEERMNGYGCVVVETPLIVQNEPDEAEQDCIE
FGKKIANI
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000
>4OY9A
DWVVAPISVPENGKGPFPQRLNQLKSNKDRDTKIFYSITGPGADSPPEGVFAVEKETGWLLLNKP
LDREEIAKYELFGHAVSENGASVEDPMNISIIVTDQNDHKPKFTQDTFRGSVLEGVLPGTSVMQV
TATDEDDAIYTYNGVVAYSIHSQEPKDPHDLMFTIHRSTGTISVISSGLDREKVPEYTLTIQATD
MDGDGSTTTAVAVVEILD
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>4PMHA
DQTAPGTASRPILTASESNYFTTATYLQGWSPPSISTSKADYTVGNGYNTIQAAVNAAINAGGTT
RKYIKINAGTYQEVVYIPNTKVPLTIYGGGSSPSDTLITLNMPAQTTPSAYKSLVGSLFNSADPA
YSMYNSCASKSGTIGTSCSTVFWVKAPAVQIVNLSIENSAKNTGDQQAVALQTNSDQIQIHNARL
LGHQDTLYAGSGSSSVERSYYTNTYIEGDIDFVFGGGSAIFESCTFYVKADRRSDTAVVFAPDTD
PHKMYGYFVYKSTITGDSAWSSSKKAYLGRAWDSGVSSSSAYVPGTSPNGQLIIKESTIDGIINT
SGPWTTATSGRTYSGNNANSRDLNNDNYNRFWEYNNSGNGA
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>4Q3NA
MRNSKVVVVGTGFVGMSYAYAMVNQGTVEELVLLDIDKRKAEGEAMDLNHGLAFGPRKMSIKAGD
YKDCKDAGLVVITAGVNQKEGETRIHLLKRNAEIIKTVVKNIMSSGFNGILLVASNPVDVLAYVA
WKESGLHHSRVIGSGTSLDTARLRYEISQYIHIDSRNVHAYILGEHGDSEFVCWSNANVGAKPIA
DVIDSMDEISFEDLEHIYLKVRDAAYEIISRKKATYYGIGMALVRITAAIFNNENRILPISVLNN
GVYDCEDQVYIGLPAVLNKDGVHHIVKLKLNEKENSQLNNSANILRKNLDDMSY
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>4QU1A
GSTVPRLHRPSLQHFREQFLVPGRPVILKGVADHWPCMQKWSLEYIQEIAGCRTVPVEVGSRYTD
EEWSQTLMTVNEFISKYIVNEPRDVGYLAQHQLFDQIPELKQDISIPDYCSLGDGEEEEITINAW
FGPQGTISPLHQDPQQNFLVQVMGRKYIRLYSPQESGALYPHDTHLLHNTSQVDVENPDLEKFPK
FAKAPFLSCILSPGEILFIPVKYWHYVRALDLSFSVSFWWS
0000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>4R5CA
TITVSTPIKQIFPDDAFAETIKANLKKKSVTDAVTQNELNSIDQIIANNSDIKSVQGIQYLPNVR
YLALGGNKLHDISALKELTNLGWLNLSNNQLETLPQGVFEKLTNLTTLNLSNNQLTSLPQGVFER
LASLTTLNLSNNQLTSLPQGVFERLTNLTTLNLSNNQLTSLPQGVFERLTNLTTLNLSNNQLTSL
PQGVFERLTSLHTLDLSNNGITDISALKNLDNLHTLDLSNNGITDISALKNLDNLHTLDLSNNGI
TDISALKNLTSLHTLDLSNNGITDISALKNLDNLETLDLRNNGI
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>4RN5A
GHMFKCMEALGMESGEIHSDQITASSQYSTNWSAERSRLNYPENGWTPGEDSYREWIQVDLGLLR
FVTAVGTQGAISKETKKKYYVKTYKIDVSSNGEDWITIKEGNKPVLFQGNTNPTDVVVAVFPKPL
ITRFVRIKPATWETGISMRFEVYGCKIT
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>4RRJA
MRLLYLHADRFEYKTVKPALKNPPDPPGEASFGEALVVFTTVEDGDGPQTVMYAASDIASHSSRL
KVTTVILYPYAHLSSRLAKPMAAHKRLIELEGALRTKFPGHVHRAPFGWAKSFSIACKGHPLAEL
SRSFTE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000
>4TJVA
GSRFVVEKNNLKVTSPDSIKGIYECAIGNFGVPQYGGTLVGTVVYPKSNQKACKSYSDFDISFKS
KPGRLPTFVLIDRGDCYFTLKAWIAQQAGAAAILVADSKAEPLITMDTPEEDKSDADYLQNITIP
SALITKTLGDSIKSALSGGDMVNMKLDWTESVPHP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>4TZ3A
EVVGGGDLGPNVLVFDPSTPDIQGKVDEVFRKQESNQFGTDRYALMFKPGTYNDINAQIGFYTSI
AGLGLNPDDTTFNGDVTVDAGWFDGNATQNFWRSAENLALNPVNGTNRWAVSQAAPFRRMHVKGG
LNLAPDGYGWASGGYIADSKIDGEVGPYSQQQWYTRDSSVGGWGNGVWNMTFSGVEGAPAQSFPE
PPYTTLETTPVSREKPFLYLDGDDYKVFVPAKRTNARGTSWGNGTPEGESLPLDQFYVVKPGATA
ETINAAVDQGLHLLFTPGVYHVDQPIEIDRANTVALGLGLATIIPDNGVTALKVGDVDGVKVAGL
LVDAGPVNSETLVEVGSDGASGDHAANPTSLQDVFVRIGGAGPGKATTSIVVNSNDTIIDHTWVW
RADHGEGVGWETNRADYGVHVKGDNVLATGLFVEHFNKYDVQWSGENGKTIFYQNAKAYDAPDQA
AIQNGDIKGYAAYKVDDSVTTHEGWGMGSYCYFNVNPDIRQQHGFQAPVKPGVKFHDLLVVSLGG

KGQYEHVINDIGDPTSGDTTIPSQVVSFP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>4WMRA
SELYRQSLEIISRYLREQATGAKDTKPMGRSGATSRKALETLRRVGDGVQRNHETAFQGMLRKLD
IKNEDDVKSLSRVMIHVFSDGVTNWGRIVTLISFGAFVAKHLKTINQESCIEPLAESITDVLVRT
KRDWLVKQRGWDGFVEFFHV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>4X6IA
APDSVDYRKKGYVTPVKNQGQCGSCWAFSSVGALEGQLKKKTGKLLNLSPQNLVDCVSENDGCGG
GYMTNAFQYVQKNRGIDSEDAYPYVGQEESCMYNPTGKAAKCRGYREIPEGNEKALKRAVARVGP
VSVAIDASLTSFQFYSKGVYYDESCNSDNLNHAVLAVGYGIQKGNKHWIIKNSWGENWGNKGYIL
MARNKNNACGIANLASFPKM
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>4XE9A
ISPIFQGGSYQLNNKSIDISSLLLDKLSGESQTVVMKFKADKPNSLQALFGLSNSKAGFKNNYFS
IFMRDSGEIGVEIRDAQKGINYLFSRPASLWGKHKGQAVENTLVFVSDSKDKTYTMYVNGIEVFS
ETVDTFLPISNINGIDKATLGAVNREGKEHYLAKGSIDEISLFNKAISDQEVSTIPLSNPFQLIF
QSGDSTQANYFRIPTLYTLSSGRVLSSIDARYGGTHDSKSKINIATSYSDDNGKTWSEPIFAMKF
NDYEEQLVYWPRDNKLKNSQISGSASFIDSSIVEDKKSGKTILLADVMPAGIGNNNANKADSGFK
EINGHYYLKLKKNGDNDFRYTVRENGVVYNETTNKPTNYTINDKYEVLEGGKSLTVEQYSVDFDS
GSLRERHNGKQVPMNVFYKDSLFKVTPTNYIAMTTSQNRGESWEQFKLLPPFLGEKHNGTYLCPG
QGLALKSSNRLIFATYTSGELTYLISDDSGQTWKKSSASIPFKNATAEAQMVELRDGVIRTFFRT
TTGKIAYMTSRDSGETWSKVSYIDGIQQTSYGTQVSAIKYSQLIDGKEAVILSTPNSRSGRKGGQ
LVVGLVNKEDDSIDWKYHYGIDLPSYGYAYSAITELPNHHIGVLFEKYDSWSRNELHLSNVVQYI
DLEINDLT
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000
>4XN4A
PQAKYRHDYRAPDYQITDIDLTFDLDAQKTVVTAVSQAVRHGASDAPLRLNGEDLKLVSVHINDE
PWTAWKEEEGALVISNLPERFTLKIINEISPAANTALEGLYQSGDALCTQCEAEGFRHITYYLDR
PDVLARFTTKIIADKIKYPFLLSNGNRVAQGELENGRHWVQWQDPFPKPCYLFALVAGDFDVLRD
TFTTRSGREVALELYVDRGNLDRAPWAMTSLKNSMKWDEERFGLEYDLDIYMIVAVDFFNAGAME
NKGLNIFNSKYVLARTDTATDKDYLDIERVIGHEYFHNWTGNRVTCRDWFQLSLKEGLTVFRDQE
FSSDLGSRAVNRINNVRTMRGLQFAEDASPMAHPIRPDMVIEMNNFYTLTVYEKGAEVIRMIHTL
LGEENFQKGMQLYFERHDGSAATCDDFVQAMEDASNVDLSHFRRWYSQSGTPIVTVKDDYNPETE
QYTLTISQRTPATPDQAEKQPLHIPFAIELYDNEGKVIPLQKGGHPVNSVLNVTQAEQTFVFDNV
YFQPVPALLCEFSAPVKLEYKWSDQQLTFLMRHARNDFSRWDAAQSLLATYIKLNVARHQQGQPL
SLPVHVADAFRAVLLDEKIDPALAAEILTLPSVNEMAELFDIIDPIAIAEVREALTRTLATELAD
ELLAIYNANYQSEYRVEHEDIAKRTLRNACLRFLAFGETHLADVLVSKQFHEANNMTDALAALSA
AVAAQLPCRDALMQEYDDKWHQNGLVMDKWFILQATSPAANVLETVRGLLQHRSFTMSNPNRIRS
LIGAFAGSNPAAFHAEDGSGYLFLVEMLTDLNSRNPQVASRLIEPLIRLKRYDAKRQEKMRAALE
QLKGLENLSGDLYEKITKALA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>4Y2KA
GMQFHIDDMTCGGCASTVKKTILTLDANATVRTDPATRLVDVETSLSAEQIAAALQKAGFPPRER
0000000000000000000000000000000000000000000000000000000000000000000000
>4Y8FA
GSHMRTPIIAGNWKMHYTIDEAVKLVEELKPLVKDAKCEVVVCPTFVCLDAVKKAVEGTNIKVGA
QNMHFEEKGAFTGEIAPRMLEAMNIDYVIIGHSERREYFNETDETCNKKVKAAFAHNLTPILCCG
ETLEQRENGTTNDVIKAQITADLEGLTKEQAEKVVIAYEPIWAIGTGKTATSDQANETIAAIRAM
VAEMFGQEVADKVRIQYGGSVKPNTIAEQMAKSDIDGALVGGASLVAADFAQIVNY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>4Z6XA
MMYIQVLGSAAGGGFPQWNCNCVNCKGYRDGTLKATARTQSSIALSDDGVHWILCNASPDIRAQL
QAFAPMQPARALRDTGINAIVLLDSQIDHTTGLLSLREGCPHQVWCTDMVHQDLTTGFPLFNMLS
HWNGGLQWNRIELEGSFVIDACPNLKFTPFPLRSAAPPYSPHRFDPHPGDNLGLMVEDTRTGGKL
FYAPGLGQVDEKLLAMMHGADCLLVDGTLWEDDEMQRRGVGTRTGREMGHLAQNGPGGTLEVLDG
FPRQRKVLIHINNTNPILDENSPERAEVLRRGVEVAFDGMSIELLEHHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>4ZMKA
DTFSERTLGLNSIDNTEISEVVSLGLVSSALDKITGLLSADNLSETVSQARDFSHTLSKSLKSRA
KSLSQK
0000000000000000000000000000000000000000000000000000000000000000000000
000000
>5A5DA
AMLPISMSDEGDSFLVKDSLGENKIPKNPSKVVILDLGILDTFDALKLNDKVVGVPAKNLPKYLQ
QFKNKPSVGGVQQVDFEAINALKPDLIIISGRQSKFYDKLKEIAPTLFVGLDNANFLSSFENNVL
SVAKLYGLEKEALEKISDIKNEIEKAKSIVDEDKKALIILTNSNKISAFGPQSRFGIIHDVLGIN
AVDENIKVGTHGKSINSEFILEKNPDYIFVVDRNVILGNKERAQGILDNALVAKTKAAQNKKIIY
LDPEYWYLASGNGLESLKTMILEIKNAVK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>5AENA
IVDTCSLASPASVCRTKHLHLRCSVDFTRRTLTGTAALTVQSQEDNLRSLVLDTKDLTIEKVVIN
GQEVKYALGERQSYKGSPMEISLPIALSKNQEIVIEISFETSPKSSALQWLTPEQTSGKEHPYLF
SQCQAIHCRAILPCQDTPSVKLTYTAEVSVPKELVALMSAIRDGETPDPEDPSRKIYKFIQKVPI
PCYLIALVVGALESRQIGPRTLVWSEKEQVEKSAYEFSETESMLKIAEDLGGPYVWGQYDLLVLP
PSFPYGGMENPCLTFVTPTLLAGDKSLSNVIAHEISHSWTGNLVTNKTWDHFWLNEGHTVYLERH
ICGRLFGEKFRHFNALGGWGELQNSVKTFGETHPFTKLVVDLTDIDPDVAYSSVPYEKGFALLFY
LEQLLGGPEIFLGFLKAYVEKFSYKSITTDDWKDFLYSYFKDKVDVLNQVDWNAWLYSPGLPPIK
PNYDMTLTNACIALSQRWITAKEDDLNSFNATDLKDLSSHQLNEFLAQTLQRAPLPLGHIKRMQE
VYNFNAINNSEIRFRWLRLCIQSKWEDAIPLALKMATEQGRMKFTRPLFKDLAAFDKSHDQAVRT
YQEHKASMHPVTAMLVGKDLKVD
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>5B5SA
MVKVMLLGDSITEITCWRPLVWEQITSAGLAGSVDFVGSMNDLQPNCSRPQGFDPDHEGHSGWQA
YDIARNNIAGWVQNTKPDIVQFMLGTNDVNIGHRNADSIIGSYTIMLNAMRAANPRVKVIVDKII
PTSWSDATIEAVNTAIPGWVQQQTTAESPVVIADCSRAAGFTNDMLRDDGVHPNSKGDQFIAGQI
GPKLIQLIKDVS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000
>5C1EA
ESRTSAPSGCLTVGSDGTYSTIGDALDALGSSTSSACIYVASGTYEEQLTIDYAGNLTLYGETTD
TSTYKDNVVTITHTISSPDAGSLDKSATVNVVSDGFSMYNINVENGYGEGAQAVALVGNADQLGF
YGCQFSGYQDTLYVKAGTQYYSNCMIEGAVDYIFGDASVWFGECDIVSNGAGAITASSRETSSDS
GWYAIDNCNIKAASGVSLTEEVYLGRPWRVLARVIYQNSVLSDIINPKGWTTMADGATPLYYEYN
NSGAGSDTSDREYETSISAAVDKTTVLGETWGDWIDRSY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>5E11A
SMEILQVALHKRDSGEQLGIKLVRRTDEPGVFILDLLEGGLAAQDGRLSSNDRVLAINGHDLKYG
TPELAAQIIQASGERVNLTIARPGKPEIEL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>5E5BA
AVTLDKDAYYRRVKRLYSNWRKGEDEYANVDAIVVSVGVDEEIVYAKSTALQTWLFGYELTDTIM
VFCDDKIIFMASKKKVEFLKQIANTKGNENANGAPAITLLIREKNESNKSSFDKMIEAIKESKNG
KKIGVFSKDKFPGEFMKSWNDCLNKEGFDKIDISAVVAYTIAVKEDGELNLMKKAASITSEVFNK
FFKERVMEIVDADEKVRHSKLAESVEKAIEEKKYLAGADPSTVEMCYPPIIQSGGNYNLKFSVVS
DKNHMHFGAITCAMGIRFKSYCSNLVRTLMVDPSQEVQENYNFLLQLQEELLKELRHGVKICDVY
NAVMDVVKKQKPELLNKITKNLGFGMGIEFREGSLVINSKNQYKLKKGMVFSINLGFSDLTNKEG
KKPEEKTYALFIGDTVLVDEDGPATVLTSVKKKVKNVGIFL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>5E6XA
QECTKFKVSSCRECIESGPGCTWCQKLNFTGPGDPDSIRCDTRPQLLMRGCAADDIMDPTSLAET
QEDHNGGQKQLSPQKVTLYLRPGQAAAFNVTFRRAKLSSRVFLDHNALPDTLKVTYDSFCSNGVT
HRNQPRGDCDGVQINVPITFQVKVTATECIQEQSFVIRALGFTDIVTVQVLPQCECRCRDQSRDR
SLCHGKGFLECGICRCDTGYIGKNCECQTQGRSSQELEGSCRKDNNSIICSGLGDCVCGQCLCHT
SDVPGKLIYGQYCEHHHHHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>5FFLA
MEDPVTGPEEVSGQEQGSLTVQCRYTSGWKDYKKYWCQGVPQRSCKTLVETDASEQLVKKNRVSI
RDNQRDFIFTVTMEDLRMSDAGIYWCGITKGGLDPMFKVTVNIGPVPT
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>5GVRA
ILVEGDGIPPPIKSFKEMKFPAAILRGLKKKGIHHPTPIQIQGIPTILSGRDMIGIAFTGSGKTL
VFTLPVIMFCLEQEKRLPFSKREGPYGLIICPSRELARQTHGILEYYCRLLQEDSSPLLRCALCI
GGMSVKEQMETIRHGVHMMVATPGRLMDLLQKKMVSLDICRYLALDEADRMIDMGFEGDIRTIFS
YFKGQRQTLLFSATMPKKIQNFAKSALVKPVTINVGRAG
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>5H0QA
MLYGVEIDEQYLRVMEEYKDKEVITQADMAKVALQRKNVYQDQAEKRQAELKAEYGVGVCVLVRV
YNATGGPITAKIEESFRGHFGAHTREKRIGNGQWTVFIHTKSAGAAVGSAGCIVYGTTDNLDIFS
GWQNPWNRSWDSQVLVEVRQSGHWWKNGSKDYMLHLLDTHNGQNSDSSYGDVKAHGSTGNETTAY
VEYVYSR
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000
>5IKGA
LNTIDIQGDILVGMHKQKQLFYFFAINDPATFKTHLASDIAPVVASVTQLSNVATQPLVALNIAF
SNTGLLALGVTDNLGDSLFANGQAKDATSFKESTSSWVPQFAGTGIHGVIILASDTTDLIDQQVA
SIESTFGSSISKLYSLSASIRPGNEAGHEMFGFLDGIAQPAINGFNTPLPGQNIVDAGVIITGAT
NDPITRPSWAVGGSFLAFRQLEQLVPEFNKYLLDNAPAGSGSLQARADLLGARMVGRWKSGAPID
LTPTADDPALGADAQRNNNFTYSHAGFDLGSDQSHCPFSAHIRKTRPRADLGGSLTPPNLSAGAN
SIMRSGIPYGPEVTSAESASNTTTQERGGAFVAYQAQLSQGFHFLQQTWADNANFPPGKTPATVG
LDPIIGQNNGQPRVVNGLLPSNSSASLSIPQFVVSHGGEYFFSPPISAIGGRLSA

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>5IT0A
PKVSVLITVTGVDQPGVTATLFEVLSRHGVELLNVEQVVIRHRLTLGVLVCCPADVADGPALRHD
VEAAIRKVGLDVSIERSDDVPIIREPSTHTIFVLGRPITAAAFGAVAREVAALGVNIDLIRGVSD
YPVIGLELRVSVPPGADGALRTALNRVSSEEHVDVAVEDYTLERRAKRLIVFDVDSTLVQGEVIE
MLAAKAGAEGQVAAITDAAMRGELDFAQSLQQRVATLAGLPATVIDEVAGQLELMPGARTTLRTL
RRLGYACGVVSGGFRRIIEPLAEELMLDYVAANELEIVDGTLTGRVVGPIIDRAGKATALREFAQ
RAGVPMAQTVAVGNGANNIDMLAAAGLGIAFNAKPALREVADASLSHPYLDTVLFLLGVTRGEIE
AADAID
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000
>5KAUA
MEYQLQQLASLTLVGIKETYENGRQAQQHIAGFWQRCYQEGVIADLQLKNNGDLAGILGLCIPEL
DGKMSYMIAVTGDNSADIAKYDVITLASSKYMVFEAQGAVPKAVQQKMEEVHHYIHQYQANTVKS
APFFELYQDGDTTSEKYITEIWMPVKGLEHHHHHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>5KEHA
NGIVPDAGHQGPDVSAVNGGTQVINIVTPNNEGISHNQYQDFNVGKPGAVFNNALEAGQSQLAGH
LNANSNLNGQAASLILNEVVSRNPSFLLGQAEVFGIAAEAVLSNPNGITCDGCGFINTSRSSLVV
GNPLFENGQLKGYSTLNNTNLLSLGKNGLNTTGLLDLIAPRIDSRGKITAAEISAFTGQNTFSQH
FDILSSQKPVSALDSYFFGSMQSGRIRIINTAEGSGVKLAGHHHHHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>5KUSA
VNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENFRALSTGEKGFGYKGSCFHRIIPGFMCQGGD
FTRHNGTGGKSIYGEKFEDENFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGK
VKEGMNIVEAMERFGSRNGKTSKKITIADCGQLE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000
>5M3UA
SLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMSHLGR
PDGVPMPDKYSLEPVAVELKSLLGKDVLFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGK
GKDASGNKVKAEPAKIEAFRASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNY
FAKALESPERPFLAILGGAKFADKIQLINNMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEE
GAKIVKDLMSKAEKNGVKITLPVDFVTADKFDENAKTGQATVASGIPAGWMGLDCGPESSKKYAE
AVTRAKQIVWNGPVGVFEWEAFARGTKALMDEVVKATSRGCITIIGGGDTATCCAKWNTEDKVSH
VSTGGGASLELLEGKVLPGVDALSNI
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>5MF5A
ASPSSELRRALEANEFIPYYQPLSPGQGGRWIGVEVLMRWRHPREGLIRPDLFIPFAERSGLIVP
MTRALMRQVAEDLGGHAGKLEPGFHIGFNISATHCHELALVDDCRELLAAFPPGHITLVLELTER
ELIESSEVTDRLFDELHALGVKIAIDDFGTGHSSLAYLRKFQVDCLKIDQSFVARIGIDTLSGHI
LDSIVELSAKLDLDIVAEGVETPEQRDYLAARGVDYLQGYLIGRPMPLESLLSSLTVQEQQ
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>5MGUA
AAPGSVVELLGKSYPQDDHSNLTRKVLTRVGRNLHNQQHHPLWLIKERVKEHFYKQYVGRFGTPL
FSVYDNLSPVVTTWQNFDSLLIPADHPSRKKGDNYYLNRTHMLRAHTSAHQWDLLHAGLDAFLVV
GDVYRRDQIDSQHYPIFHQLEAVRLFSKHELFAGIKDGESLQLFEQSSRSAHKQETHTMEAVKLV
EFDLKQMLTRLMAHLFGDELEIRWVDCYFPFTHPSFEMEINFHGEWLEVLGCGVMEQQLVNSAGA
QDRIGWAFGLGLERLAMILYDIPDIRLFWCEDERFLKQFCVSNINQKVKFQPLSKYPAVINDISF
WLPSENYAENDFYDLVRTIGGDLVEKVDLIDKFVHPKTHKTSHCYRITYRHMERTLSQREVRHIH
QALQEAAVQLLGVEGRF
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>5MJCA
RPESELIRQSWRVVSRSPLEHGTVLFARLFALEPSLLPLFQYNGRQFSSPEDSLSSPEFLDHIRK
VMLVIDAAVTNVEDLSSLEEYLTSLGRKHRAVGVRLSSFSTVGESLLYMLEKSLGPDFTPATRTA
WSRLYGAVVQAMSRGWDG

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>5NV1A
GHMGITAIALYDYQAAGDDEISFDPDDIITNIEMIDDGWWRGVCKGRYGLFPANYVELRQ
0000000000000000000000000000000000000000000000000000000000000000
>5OSWA
DTHKSEIAHRFNDLGEENFQGLVLIAFSQYLQQCPFDEHVKLVKELTEFAKTCVADESHAGCDKS
LHTLFGDELCKVATLRETYGDMADCCEKQEPERNECFLKHKDDSPDLPKLKPEPDTLCAEFKADE
KKFWGKYLYEVARRHPYFYAPELLYYANKYNGVFQECCQAEDKGACLLPKIETMREKVLASSARQ
RLRCASIQKFGERALKAWSVARLSQKFPKADFTDVTKIVTDLTKVHKECCHGDLLECADDRADLA
KYICDHQDTLSSKLKECCDKPVLEKSHCIAEIDKDAVPENLPPLTADFAEDKEVCKNYQEAKDVF
LGSFLYEYSRRHPEYAVSVLLRLAKEYEATLEDCCAKEDPHACYATVFDKLKHLVDEPQNLIKKN
CELFEKHGEYGFQNALIVRYTRKAPQVSTPTLVEISRSLGKVGTKCCAKPESERMPCTEDYLSLI
LNRLCVLHEKTPVSEKVTKCCTESLVNRRPCFSDLTLDETYVPKPFDGESFTFHADICTLPDTEK
QIKKQTALVELLKHKPKATDEQLKTVMENFVAFVDKCCAADDKEGCFLLEGPKLVASTQAALA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>5TJZA
GMRVGVLGAKGKVGATMVRAVAAADDLTLSAELDAGDPLSLLTDGNTEVVIDFTHPDVVMGNLEF
LIDNGIHAVVGTTGFTAERFQQVESWLVAKPNTSVLIAPNFAIGAVLSMHFAKQAARFFDSAEVI
ELHHPHKADAPSGTAARTAKLIAEARKGLPPNPDATSTSLPGARGADVDGIPVHAVRLAGLVAHQ
EVLFGTEGETLTIRHDSLDRTSFVPGVLLAVRRIAERPGLTVGLEPLLDL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>5TWBA
MKDVTIIGGGPSGLYASFYAGLRDMSVRLIDVQSELGGKMRIYPEKIIWDIGGIAPKPCHEILKD
TIKQGLYFKPEVHLNERVVDIRKKAERHFEVETEAGEIYTSKAVIIAIGAGIINPKQLDVKGVER
YQLTNLHYVVQSYRRFKDKDVLISGGGNTALDWAHDIAKIAKSVTVVYRKEDVSGHEAMKTLVTD
LNVKLCPKTRIKYLVGNDDETHISEVVLEHVESGDRHTVKFDDVIISHGFDRCNTLLSETSSKLD
MHDDCRVKGFGNTTTSIPGIYACGDIVYHDAKSHLIASAFSDGANAANLAKTYIQPDANAEGYVS
SHHEVFKEANKTIVNKHLY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>5VTLA
QNTVSHVSAACLFSEALHGIPFGVKVLKALAAANVSDASKAREGCQDAVRRAEDAFSSTPKVEEA
VGRARAALKEAESAENAAKTALSDVEQYAANAPLLAAGKTAPIDDYLKSVAEDNSAASTARRIAR
GCSLPNRGVNSWVLKKAVEFGCEFFTGDICKILTDGMADLRAEYDQLEAAVRRASEARVAARAAE
SNARKAAEEAERTAA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>5WH8A
TYPEGSPVYHNGKLSVQGTQMVSECGKPVQLRGMSSHGLAWFPKCYTEASLTALVKDWNIDIFRL
AIYTHEWGGYTTNQWKSKDDYNAYIDNMVDICAKLGIYCIIDWHVLNDGSGDPNYTLDDAIPFWD
YMSAKHKDDKHVLYEICNEPNGFDVKWADVKEYAEAVIPVIRKNDPDKIIICGTPTWSQDVDLAA
QDPLSYDNVMYTLHFYSGTHTQYLRDKAQVAINKGLALFVTEFGTTQASGDGGVYFDECNTWMDW
MDARKISWVNWSFADKPESSAALKPGASNSGDWNMVSESGQYIKRKLSQPKSYESCGGHHHHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>5XSFA
AMRDIDSVMRLAPVMPVLVIEDIADAKPIAEALVAGGLNVLEVTLRTPCALEAIKIMKEVPGAVV
GAGTVLNAKMLDQAQEAGCEFFVSPGLTADLGKHAVAQKAALLPGVANAADVMLGLDLGLDRFKF
FPAENIGGLPALKSMASVFRQVRFCPTGGITPTSAPKYLENPSILCVGGSWVVPAGKPDVAKITA
LAKEASAFKRAAVA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>5YDNA
MNYATVNDLCARYTRTRLDILTRPKTADGQPDDAVAEQALADASAFIDGYLAARFVLPLTVVPSL
LKRQCCVVAWFYLNESQPTEQITATYRDTVRWLEQVRDGKTDPG
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>5YR5A
YRYTGKLRPHYPLMPTRPVPSYIQRPDYADHPLGMSESEQALKGTSQIKLLSSEDIEGMRLVCRL
AREVLDVAAGMIKPGVTTEEIDHAVHLACIARNCYPSPLNYYNFPKSCCTSVNEVICHGIPDRRP
LQEGDIVNVDITLYRNGYHGDLNETFFVGEVDDGARKLVQTTYECLMQAIDAVKPGVRYRELGNI
IQKHAQANGFSVVRSYCGHGIHKLLHTAPNVPHYAKNKAVGVMKSGHVFTIEPMICEGGWQDETW
PDGWTAVTRDGKRSAQFEHTLLVTDTGCEILTRRLDSARPHFMS
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>5ZYNB
ASMKQPVVVIGSGLAGLTTSNRLISKYRIPVVLLDKAASIGGNSIKASSGINGAHTDTQQNLKVM
DTPELFLKDTLHSAKGRGVPSLMDKLTKESKSAIRWLQTEFDLKLDLLAQLGGHSVPRTHRSSGK
LPPGFEIVQALSKKLKDISSKDSNLVQIMLNSEVVDIELDNQGHVTGVVYMDENGNRKIMKSHHV
VFCSGGFGYSKEMLKEYSPNLIHLPTTNGKQTTGDGQKILSKLGAELIDMDQVQVHPTGFIDPND
RENNWKFLAAEALRGLGGILLHPTTGRRFTNELSTRDTVTMEIQSKCPKNDNRALLVMSDKVYEN
YTNNINFYMSKNLIKKVSINDLIRQYDLQTTASELVTELKSYSDVNTKDTFDRPLIINAFDKDIS
TESTVYVGEVTPVVHFTMGGVKINEKSQVIKKNSESVLSNGIFAAGEVSGGVHGANRLGGSSLLE
CVVFGKTAADNIAKLY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>5ZZVA
MSNISLIVGLGNPGSEYAQTRHNAGFWFVEQLADKYGITLKNDPKFHGISGRGNIEGHDVRLLLP
MTYMNRSGQSVVPFSKFYQIAPEAILIAHDELDMNPGVIRLKTGGGHGGHNGLRDIVPHIGPNFH
RLRIGIGHPGSKERVSGHVLGKAPSNEQSLMDGAIDHALSKVKLLVQGQVPQAMNQINAYKPA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>6B22A
HISSQQHEKAIKSYFDEAQTQGVIIIKEGKNLSTYGNALARANKEYVPASTFKMLNALIGLENHK
ATTNEIFKWDGKKRTYPMWEKDMTLGEAMALSAVPVYQELARRTGLELMQKEVKRVNFGNTNIGT
QVDNFWLVGPLKITPVQEVNFADDLAHNRLPFKLETQEEVKKMLLIKEVNGSKIYAKSGWGMGVT
PQVGWLTGWVEQANGKKIPFSLNLEMKEGMSGSIRNEITYKSLENLGII
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>6BDDA
MKGIIFTEFLDLVEDKFGLEMVDKIITQSELESEGVYTSIGTYRFSEMLQLLQNLSANTDVSIDD
LLLTYAEHFFSVIEDSYPGLLATYKDPIEMLASIENHIHVEVRKIYPDAELPTFVVEEKTANSLT
MIYKSSRAMHHFGLGLMNKTFEHFNSSAEIILEKIKEDGTEVKFIINKNENLYFQ
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000

>6CSLA
QGENISSLLRELYAKPLSERHVESDGLIFDPAQITSRTANGVAVPHGDHYHFIPYSQLSPLEEKL
ARIIPL
000000000000000000000000000000000000000000000000000000000000000000
000000
>6D2NA
ALQQLFENNVRWAEAIKQEDPDFFAKLARQQTPEYLWIGCSDARVPANEIVGMLPGDLFVHRNVA
NVVLHTDLNCLSVIQFAVDVLKVKHILVTGHYGCGGVRASLHNDQLGLIDGWLRSIRDLAYEYRE
HLEQLPTEEERVDRLCELNVIQQVANVSHTSIVQNAWHRGQSLSVHGCIYGIKDGLWKNLNVTVS
GLDQLPPQYRLSPL
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>6E4NA
GSHMRVQVSGMSDETTWHTLKDHLRQAGEVTFCKVFSGGRAVVEFVTPEDAARAITELQASELEG
ATLFLR
000000000000000000000000000000000000000000000000000000000000000000
000000
>6EK9A
LGGVDREAMARCIEECLRCAQACTACADACLSEPAVADLTKCIRTDMDCADVCTATAAVLSRHTG
YDANVTRAVLQACATVCAACGDECARHAGMHEHCRVCAEACRSCEQACQELLAGLG
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000
>6ENOA
GADNRELWKVLNVDLEKHDEFLAPVPAVYRELFLNRPNRPRAMAYFDAVVGDIHGIRVHELYNLK
QEGKKVFATFCVYVPEEIINATGSACIGLCGGAQYTVPAGETVLPRNLCPLIKSAMGFKIERICP
YFQVADYVVGETTCDGKKKAWEILNEYIPVYVMELPQKKEERDRKFWEEEIKDFAQFVEEKTGVK
LNAENLRAGIEKINKKRKALKRLSDLRKHNPAPIHGLDVLLINQLAFFDDPERFATKVNELCDEL
EERVAKGEGVVSKDAPRILITGTPQPIPHWKIHALIEGAGGVVVGEETCIGERYFKDLVEPAADV
EGMLKNIAARSLKVNCACFTPNTGRLEDILSMVQKLQVDGVIHYSLQFCQPYGVESYLVGRELER
RNIPFLKLESDFSEEDQGQLKTRIEAFLEMI
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>6ESRA
AAWACFRLDGRTLLRVRGPDAAPFLLGLLTNELPLPSPAAAGAPPAARAGYAHFLNVQGRTLYDV
ILYGLQEHSEVSGFLLECDSSVQGALQKHLALYRIRRKVTVEPHPELRVWAVLPSSPEACGAASL
QERAGAAAILIRDPRTARMGWRLLTQDEGPALVPGGRLGDLWDYHQHRYLQGVPEGVRDLPPGVA
LPLESNLAFMNGVSFTKGCYIGQELTARTHHMGVIRKRLFPVRFLDPLPTSGITPGATVLTASGQ

TVGKFRAGQGNVGLALLWSEKIKGPLHIRASEGAQVALAASVPDWWPT
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>6F1DA
AECSSELYTEASGYISSLEYPRSYPPDLRCNYSIRVERGLTLHLKFLEPFDIEDHPEVPCPYDQL
QIYANGKNIGEFCGKQRPPDLDTSSNAVDLLFFTDESGDSRGWKLRYTTEII
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>6F5RA
AQNPNCNIMIFHPTKEEFNDFDKYIAYMESQGAHRAGLAKIIPPKEWKARETYDNISEILIATPL
QQVASGRAGVFTQYHKKKKAMTVGEYRHLANSKKYQTPPHQNFEDLERKYWKNRIYNSPIYGADI
SGSLFDENTKQWNLGHLGTIQDLLEKECGVVIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLH
LGEPKTWYVVPPEHGQRLERLARELFPGSSRGCGAFLRHKVALISPTVLKENGIPFNRITQEAGE
FMVTFPYGYHAGFNHGFNCAEAINFATPRWIDYGKMASQCSCGEARVTFSMDAFVRILQPERYDL
WK
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
00
>6F7DA
GVINFSHADTYGNDSVGAHLQNVVYPTDAPFNAATDGTTDTTVAIKSAIAHCISKGKKLVLNHLF
MITDTLVISDGLHVECLTSDSGVKSDVPAGKFAVKITGANSGWFGGKILGKNLPESTTVRQDGVL
FDENAEYCFITGTEVTGFFAKGLHTSDADGVGYGIYDKGYGTLISKCYANSKFCVALGGTEGRVL
KNRITNNYLTSGEAKPWSWASNYWDGIVSENAHRYVIAFNDVSACGQSGIYFGGNGGYSTDNIIV
NNTVYACWNRGIDMGLFSEKSATNDVLRNIIKGNNTYNNRENNIWLAGVSNCSVVGNTSWFDTNY
DVIFAGYPGGHICISLASGANGEACVGNTIDSNTCIDPRGNAGITVPTGATGNVFGSGNNLSQAG
AIYIASPDLITSNRFELAVTGSFTPVLLPESGSITLSSSSTGVFRATGNRIDFSVTVNVSSISSP
SGNLNIAYLPGMSGKTSSTSMFIIDYWNDLTLSSGVIPLASLNLENQDQITVYRTDGGRVLYDFS
SLMKSTSSFILKGFVDFN
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>6FWTA

TTALSLPACPEESPLLVGPMLIEFNMPVDLELVAKQNPNVKMGGRYAPRDCVSPHKVAIIIPFRN
RQEHLKYWLYYLHPVLQRQQLDYGIYVINQAGDTIFNRAKLLNVGFQEALKDYDYTCFVFSDVDL
IPMNDHNAYRCFSQPRHISVAMDKFGFSLPYVQYFGGVSALSKQQFLTINGFPNNYWGWGGEDDD
IFNRLVFRGMSISRPNAVVGRCRMIRHSRDKKNEPNPQRFDRIAHTKETMLSDGLNSLTYQVLDV
QRYPLYTQITVDIGTPS
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000000